



# Full wwPDB NMR Structure Validation Report ⓘ

Jun 3, 2023 – 11:28 PM EDT

PDB ID : 2MZI  
BMRB ID : 25489  
Title : NMR Solution Structure of the PRO Form of Human Matrilysin (proMMP-7)  
in Complex with Anionic Membrane  
Authors : Prior, S.H.; Van Doren, S.R.  
Deposited on : 2015-02-12

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at  
<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at  
<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
wwPDB-RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
wwPDB-ShiftChecker : v1.2  
BMRB Restraints Analysis : v1.2  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.33

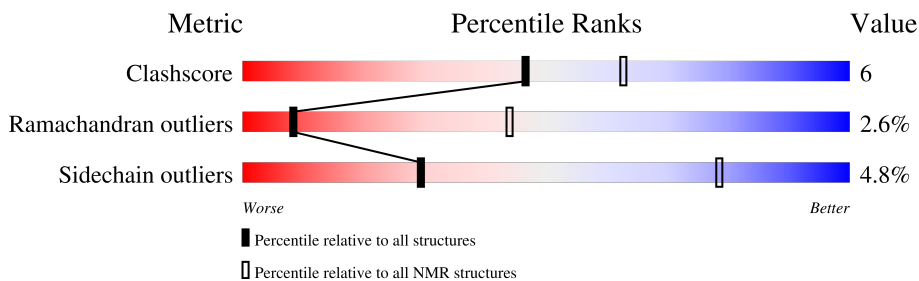
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 25%.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ .

Mol	Chain	Length	Quality of chain
1	A	250	 78% 15% . . .

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA and RNA chains that are outliers for geometric criteria:

Mol	Chain	Compound	Res	Total models with violations	
				Chirality	Geometry
5	A	C3S	431	20	-
5	A	C3S	432	20	-
5	A	C3S	433	20	-
5	A	C3S	434	20	-
5	A	C3S	435	20	-
5	A	C3S	436	20	-

## 2 Ensemble composition and analysis i

This entry contains 20 models. Model 5 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:2-A:75, A:82-A:244 (237)	1.20	5

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 3 clusters. No single-model clusters were found.

Cluster number	Models
1	2, 4, 5, 8, 10, 11, 12, 15, 17, 18, 19
2	3, 6, 9, 13, 14, 16
3	1, 7, 20

### 3 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 10109 atoms, of which 2165 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Matrilysin.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	248	3847	1240	1895	339	364	9	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	195	ALA	GLU	engineered mutation	UNP P09237

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	
			Total	Ca
2	A	2	2	2

- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	
			Total	Zn
3	A	2	2	2

- Molecule 4 is 1,2-DIMYRISTOYL-SN-GLYCERO-3-PHOSPHOCHOLINE (three-letter code: PX4) (formula: C<sub>36</sub>H<sub>73</sub>NO<sub>8</sub>P).











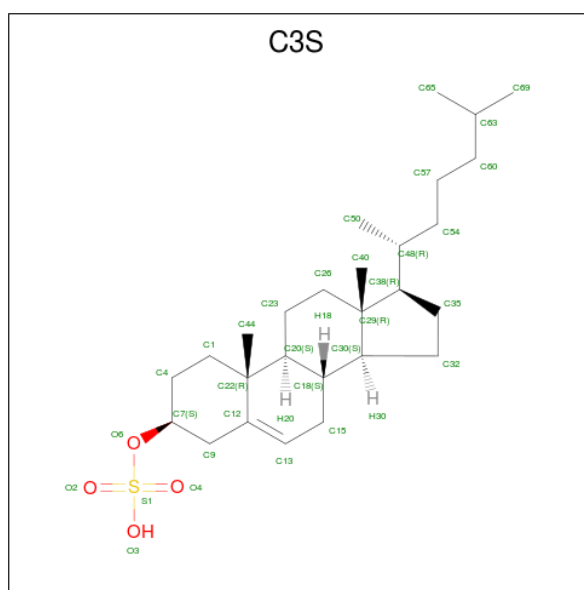




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Mol	Chain	Residues	Atoms				
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1
4	A	1	Total	C	N	O	P
			46	36	1	8	1

- Molecule 5 is CHOLEST-5-EN-3-YL HYDROGEN SULFATE (three-letter code: C3S) (formula:  $C_{27}H_{46}O_4S$ ).



Mol	Chain	Residues	Atoms				
5	A	1	Total	C	H	O	S
			77	27	45	4	1
5	A	1	Total	C	H	O	S
			77	27	45	4	1
5	A	1	Total	C	H	O	S
			77	27	45	4	1
5	A	1	Total	C	H	O	S
			77	27	45	4	1

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Mol	Chain	Residues	Atoms				
			Total	C	H	O	S
5	A	1	77	27	45	4	1
5	A	1	77	27	45	4	1

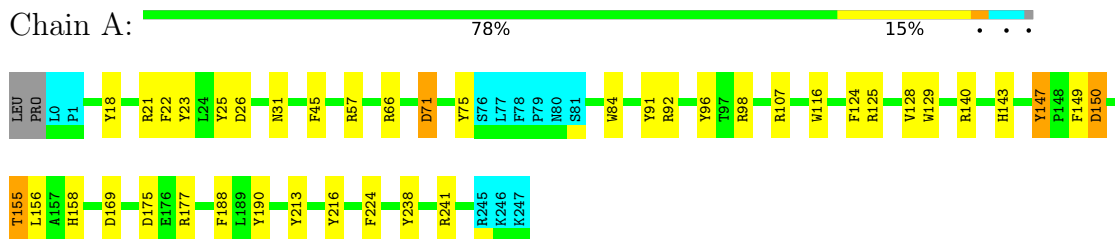


## 4 Residue-property plots

### 4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: Matrilysin

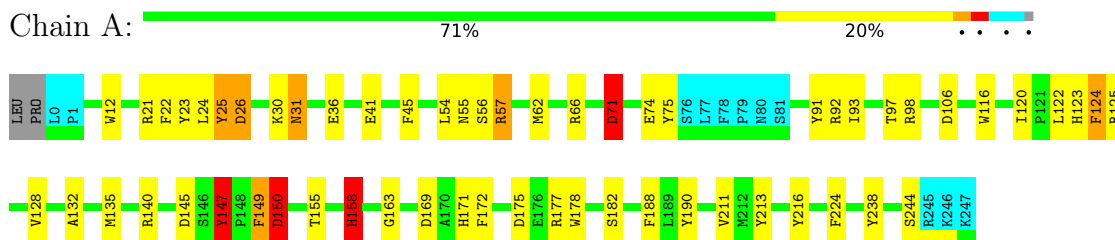


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

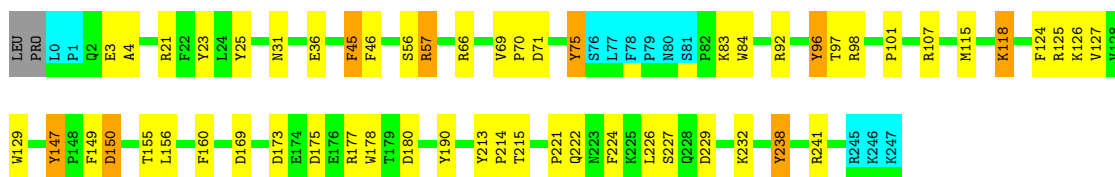
- Molecule 1: Matrilysin



#### 4.2.2 Score per residue for model 2

- Molecule 1: Matrilysin

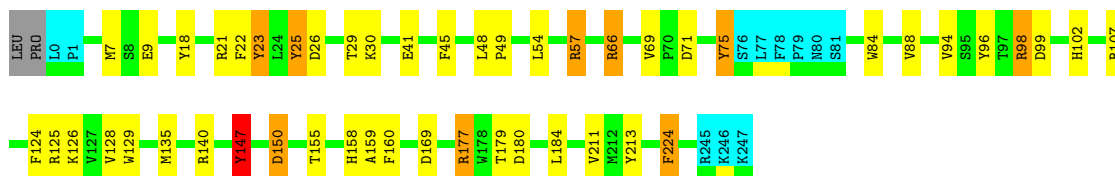




### 4.2.3 Score per residue for model 3

- Molecule 1: Matrilysin

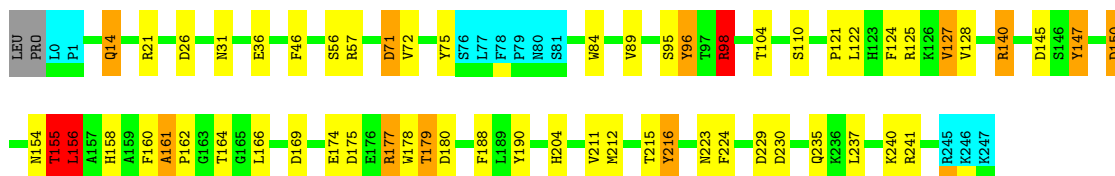
Chain A: 75% 16%



### 4.2.4 Score per residue for model 4

- Molecule 1: Matrilysin

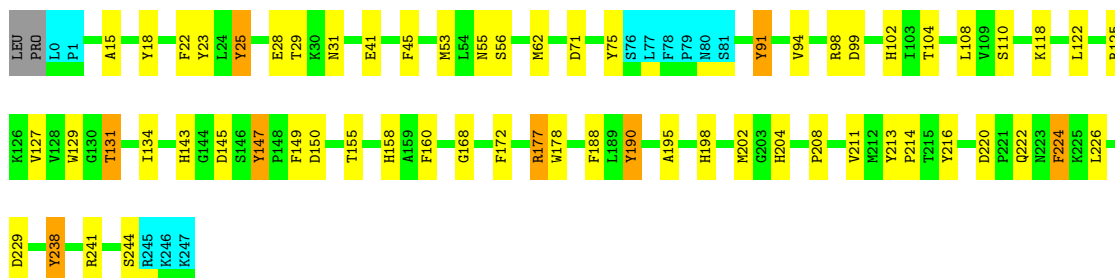
Chain A: 71% 18%



### 4.2.5 Score per residue for model 5 (medoid)

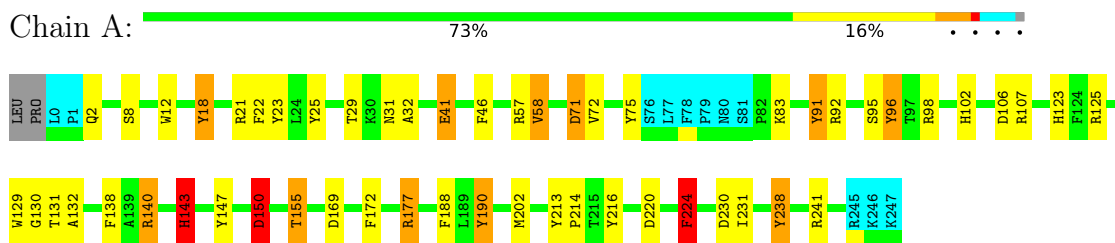
- Molecule 1: Matrilysin

Chain A: 70% 22%



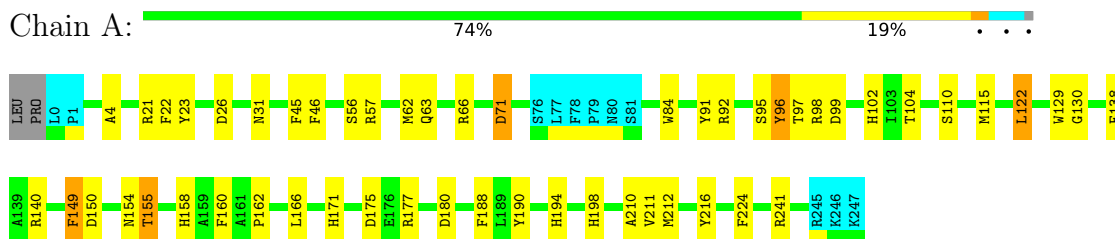
### 4.2.6 Score per residue for model 6

- Molecule 1: Matrilysin



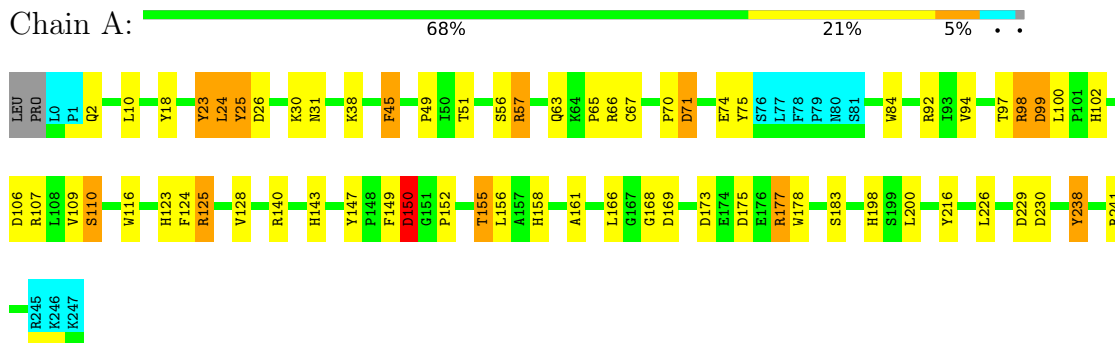
### 4.2.7 Score per residue for model 7

- Molecule 1: Matrilysin



### 4.2.8 Score per residue for model 8

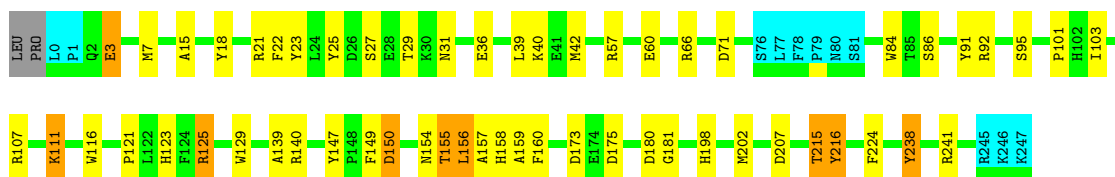
- Molecule 1: Matrilysin



### 4.2.9 Score per residue for model 9

- Molecule 1: Matrilysin

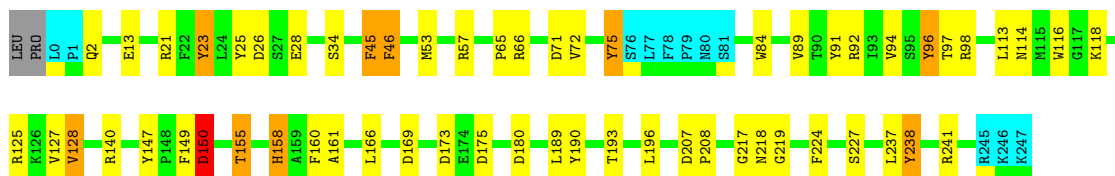




#### 4.2.10 Score per residue for model 10

- Molecule 1: Matrilysin

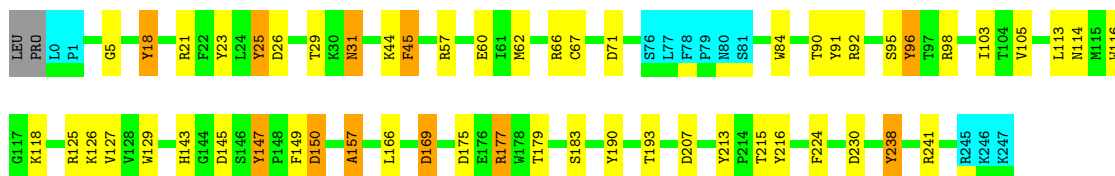
Chain A: 71% 20%



#### 4.2.11 Score per residue for model 11

- Molecule 1: Matrilysin

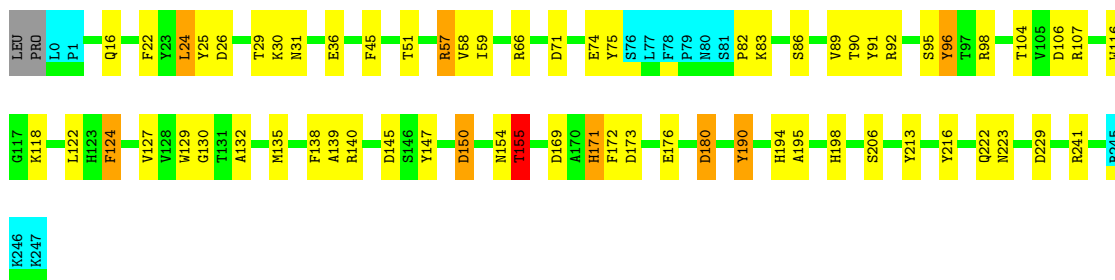
Chain A: 73% 18%



#### 4.2.12 Score per residue for model 12

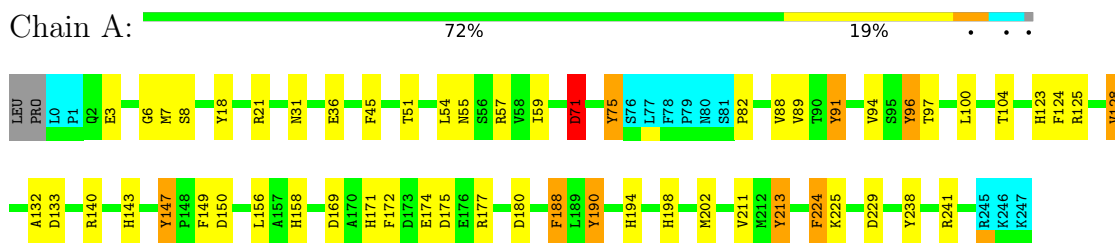
- Molecule 1: Matrilysin

Chain A: 69% 22%



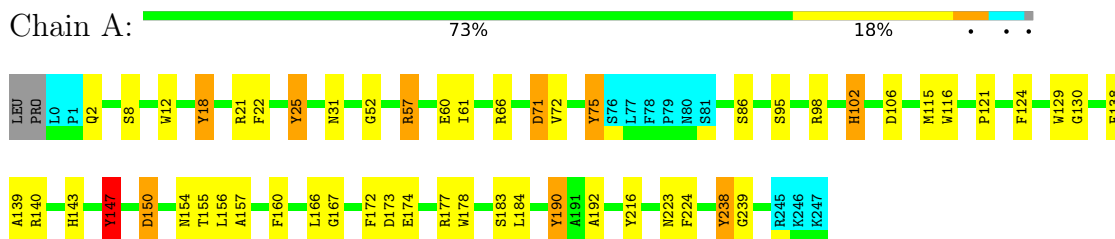
### 4.2.13 Score per residue for model 13

- Molecule 1: Matrilysin



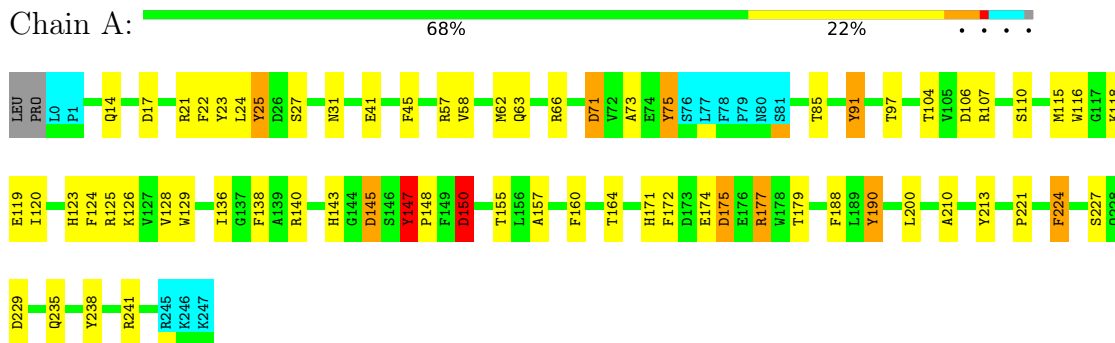
### 4.2.14 Score per residue for model 14

- Molecule 1: Matrilysin



### 4.2.15 Score per residue for model 15

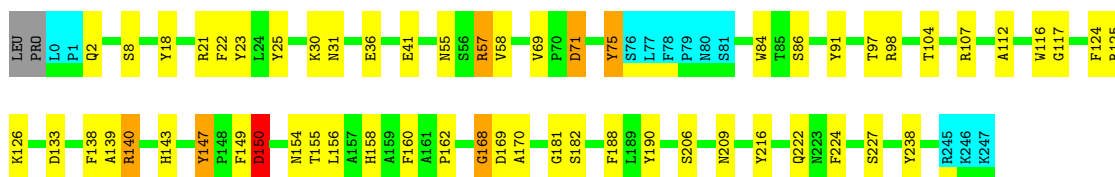
- Molecule 1: Matrilysin



### 4.2.16 Score per residue for model 16

- Molecule 1: Matrilysin

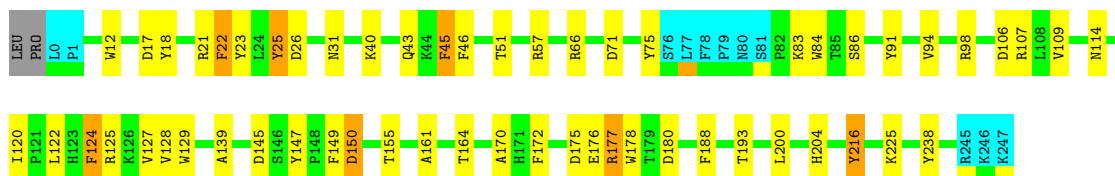




#### 4.2.17 Score per residue for model 17

- Molecule 1: Matrilysin

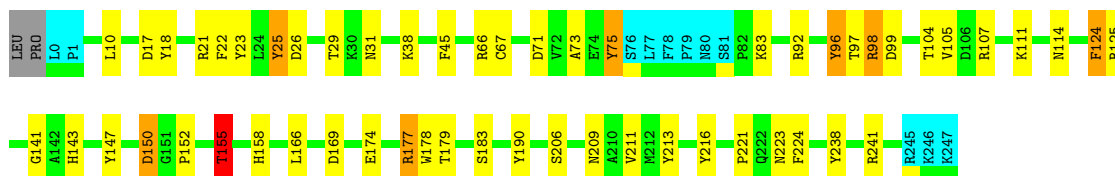
Chain A: 72% 20%



#### 4.2.18 Score per residue for model 18

- Molecule 1: Matrilysin

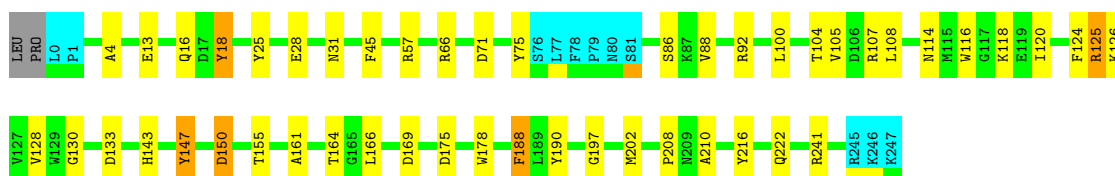
Chain A: 73% 19%



#### 4.2.19 Score per residue for model 19

- Molecule 1: Matrilysin

Chain A: 75% 18%



#### 4.2.20 Score per residue for model 20

- Molecule 1: Matrilysin

Chain A:  71% 19% . . .



## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *molecular dynamics*.

Of the 10000 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
HADDOCK	structure solution	2.1
GROMOS	refinement	4.5.7

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	797
Number of shifts mapped to atoms	797
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	25%



## 6 Model quality i

### 6.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: C3S, ZN, PX4, CA

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.52±0.00	0±0/1912 ( 0.0± 0.0%)	2.02±0.04	56±8/2587 ( 2.2± 0.3%)
All	All	0.52	0/38240 ( 0.0%)	2.02	1128/51740 ( 2.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	7.2±2.1
All	All	0	144

There are no bond-length outliers.

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	177	ARG	NE-CZ-NH2	-19.51	110.54	120.30	5	12
1	A	140	ARG	NE-CZ-NH2	-18.98	110.81	120.30	14	12
1	A	140	ARG	NE-CZ-NH1	18.27	129.44	120.30	1	8
1	A	125	ARG	NE-CZ-NH2	-17.59	111.51	120.30	2	11
1	A	57	ARG	NE-CZ-NH2	-17.59	111.51	120.30	1	8
1	A	92	ARG	NE-CZ-NH2	-17.51	111.55	120.30	19	9
1	A	92	ARG	NE-CZ-NH1	16.90	128.75	120.30	20	7
1	A	125	ARG	NE-CZ-NH1	16.21	128.41	120.30	2	9
1	A	66	ARG	NE-CZ-NH1	14.71	127.65	120.30	2	12
1	A	21	ARG	NE-CZ-NH1	-14.63	112.99	120.30	9	11
1	A	66	ARG	NE-CZ-NH2	-14.42	113.09	120.30	3	7
1	A	75	TYR	CB-CG-CD2	-14.09	112.54	121.00	19	11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	71	ASP	CB-CG-OD1	13.81	130.73	118.30	4	12
1	A	46	PHE	CB-CG-CD2	-13.80	111.14	120.80	10	5
1	A	91	TYR	CB-CG-CD2	-13.35	112.99	121.00	13	7
1	A	160	PHE	CB-CG-CD2	13.29	130.10	120.80	9	6
1	A	190	TYR	CB-CG-CD2	-13.14	113.11	121.00	19	11
1	A	107	ARG	NE-CZ-NH1	13.12	126.86	120.30	3	9
1	A	98	ARG	NE-CZ-NH1	13.06	126.83	120.30	18	12
1	A	173	ASP	CB-CG-OD2	-12.80	106.78	118.30	14	3
1	A	75	TYR	CB-CG-CD1	12.79	128.68	121.00	2	6
1	A	190	TYR	CB-CG-CD1	12.52	128.51	121.00	11	7
1	A	23	TYR	CB-CG-CD2	-12.45	113.53	121.00	16	4
1	A	25	TYR	CB-CG-CD2	-12.18	113.69	121.00	18	4
1	A	172	PHE	CB-CG-CD2	-11.99	112.41	120.80	14	5
1	A	224	PHE	CB-CG-CD1	-11.89	112.48	120.80	16	5
1	A	160	PHE	CB-CG-CD1	-11.72	112.59	120.80	9	4
1	A	124	PHE	CB-CG-CD1	-11.44	112.79	120.80	1	4
1	A	45	PHE	CB-CG-CD1	11.36	128.75	120.80	12	8
1	A	241	ARG	NE-CZ-NH1	-11.33	114.63	120.30	19	8
1	A	238	TYR	CB-CG-CD1	-11.28	114.23	121.00	1	7
1	A	96	TYR	CB-CG-CD2	-11.13	114.32	121.00	11	7
1	A	224	PHE	CB-CG-CD2	11.09	128.56	120.80	16	3
1	A	25	TYR	CB-CG-CD1	-10.98	114.41	121.00	11	6
1	A	71	ASP	CB-CG-OD2	10.94	128.14	118.30	14	12
1	A	21	ARG	NE-CZ-NH2	10.67	125.63	120.30	9	11
1	A	138	PHE	CB-CG-CD2	-10.66	113.34	120.80	16	3
1	A	45	PHE	CB-CG-CD2	-10.23	113.64	120.80	12	5
1	A	211	VAL	CA-CB-CG1	10.23	126.24	110.90	3	5
1	A	57	ARG	NE-CZ-NH1	10.20	125.40	120.30	1	5
1	A	155	THR	CA-CB-CG2	10.12	126.57	112.40	12	5
1	A	169	ASP	CB-CG-OD2	10.04	127.33	118.30	2	6
1	A	145	ASP	CB-CG-OD1	9.95	127.25	118.30	17	6
1	A	140	ARG	CD-NE-CZ	9.95	137.53	123.60	4	5
1	A	140	ARG	NH1-CZ-NH2	9.83	130.21	119.40	14	1
1	A	124	PHE	CB-CG-CD2	-9.77	113.96	120.80	20	6
1	A	23	TYR	CB-CG-CD1	-9.77	115.14	121.00	9	2
1	A	98	ARG	NE-CZ-NH2	9.75	125.17	120.30	1	6
1	A	147	TYR	CB-CG-CD2	-9.37	115.38	121.00	3	7
1	A	220	ASP	CB-CG-OD1	9.36	126.72	118.30	5	2
1	A	25	TYR	CG-CD1-CE1	-9.35	113.82	121.30	11	2
1	A	71	ASP	OD1-CG-OD2	-9.34	105.55	123.30	7	18
1	A	169	ASP	CB-CG-OD1	9.18	126.56	118.30	1	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	177	ARG	CD-NE-CZ	9.16	136.43	123.60	11	2
1	A	51	THR	CA-CB-CG2	9.07	125.10	112.40	8	3
1	A	91	TYR	CB-CG-CD1	-9.05	115.57	121.00	6	6
1	A	216	TYR	CB-CG-CD1	8.97	126.38	121.00	18	8
1	A	241	ARG	NE-CZ-NH2	-8.96	115.82	120.30	11	11
1	A	96	TYR	CG-CD1-CE1	-8.88	114.19	121.30	10	1
1	A	18	TYR	CB-CG-CD1	-8.78	115.73	121.00	18	3
1	A	230	ASP	CB-CG-OD1	8.76	126.19	118.30	11	2
1	A	175	ASP	CB-CG-OD2	8.72	126.15	118.30	9	6
1	A	22	PHE	CB-CG-CD2	-8.67	114.73	120.80	20	6
1	A	145	ASP	OD1-CG-OD2	-8.60	106.96	123.30	17	3
1	A	172	PHE	CB-CG-CD1	8.49	126.74	120.80	14	4
1	A	216	TYR	CB-CG-CD2	-8.46	115.92	121.00	1	6
1	A	56	SER	N-CA-CB	-8.35	97.98	110.50	2	3
1	A	116	TRP	CD1-NE1-CE2	8.23	116.41	109.00	16	4
1	A	145	ASP	CB-CG-OD2	8.20	125.68	118.30	17	1
1	A	188	PHE	CB-CG-CD2	-8.16	115.09	120.80	13	5
1	A	175	ASP	CB-CG-OD1	-8.13	110.98	118.30	2	5
1	A	207	ASP	CB-CG-OD1	8.13	125.61	118.30	20	2
1	A	75	TYR	CG-CD1-CE1	8.11	127.79	121.30	16	3
1	A	180	ASP	CB-CG-OD2	-8.10	111.01	118.30	13	5
1	A	138	PHE	CB-CG-CD1	-8.07	115.15	120.80	15	2
1	A	173	ASP	CB-CG-OD1	7.95	125.45	118.30	14	5
1	A	149	PHE	CB-CG-CD2	-7.94	115.24	120.80	13	4
1	A	29	THR	CA-CB-CG2	7.88	123.44	112.40	3	6
1	A	238	TYR	CB-CG-CD2	-7.88	116.27	121.00	6	3
1	A	147	TYR	CG-CD2-CE2	-7.86	115.01	121.30	3	2
1	A	26	ASP	CB-CG-OD1	7.82	125.34	118.30	17	4
1	A	106	ASP	CB-CG-OD2	7.79	125.31	118.30	6	6
1	A	96	TYR	CD1-CE1-CZ	7.78	126.80	119.80	10	2
1	A	66	ARG	CD-NE-CZ	7.76	134.47	123.60	2	1
1	A	84	TRP	CE2-CD2-CG	7.76	113.50	107.30	8	3
1	A	116	TRP	NE1-CE2-CD2	-7.65	99.65	107.30	20	5
1	A	159	ALA	N-CA-CB	7.64	120.80	110.10	3	2
1	A	69	VAL	CA-CB-CG1	7.63	122.34	110.90	3	3
1	A	84	TRP	CD1-NE1-CE2	7.62	115.86	109.00	4	1
1	A	23	TYR	CD1-CE1-CZ	-7.61	112.95	119.80	3	4
1	A	213	TYR	CB-CG-CD1	-7.60	116.44	121.00	13	3
1	A	238	TYR	CG-CD1-CE1	7.60	127.38	121.30	10	3
1	A	84	TRP	NE1-CE2-CD2	-7.54	99.76	107.30	4	3
1	A	53	MET	CB-CA-C	7.54	125.47	110.40	10	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	75	TYR	CG-CD2-CE2	-7.50	115.30	121.30	17	1
1	A	102	HIS	CA-CB-CG	7.50	126.34	113.60	7	1
1	A	21	ARG	CD-NE-CZ	7.49	134.09	123.60	16	1
1	A	216	TYR	CG-CD2-CE2	-7.47	115.32	121.30	19	4
1	A	106	ASP	CB-CG-OD1	7.45	125.00	118.30	17	2
1	A	139	ALA	CB-CA-C	7.44	121.26	110.10	9	3
1	A	84	TRP	CD1-CG-CD2	-7.43	100.35	106.30	8	2
1	A	178	TRP	CD1-NE1-CE2	7.41	115.67	109.00	5	4
1	A	129	TRP	CZ3-CH2-CZ2	-7.41	112.71	121.60	11	2
1	A	226	LEU	CB-CG-CD2	7.40	123.58	111.00	5	2
1	A	180	ASP	CB-CA-C	7.33	125.06	110.40	2	2
1	A	26	ASP	CB-CG-OD2	7.33	124.89	118.30	12	3
1	A	180	ASP	CB-CG-OD1	7.32	124.89	118.30	13	3
1	A	56	SER	CB-CA-C	7.29	123.96	110.10	7	1
1	A	193	THR	CA-CB-CG2	7.29	122.61	112.40	10	1
1	A	86	SER	N-CA-CB	-7.29	99.56	110.50	9	4
1	A	97	THR	CA-CB-CG2	7.28	122.59	112.40	8	2
1	A	23	TYR	CG-CD2-CE2	-7.28	115.48	121.30	1	2
1	A	178	TRP	NE1-CE2-CD2	-7.26	100.03	107.30	5	4
1	A	98	ARG	CD-NE-CZ	7.26	133.77	123.60	14	1
1	A	36	GLU	OE1-CD-OE2	-7.24	114.62	123.30	12	3
1	A	62	MET	CA-CB-CG	7.23	125.60	113.30	7	4
1	A	25	TYR	N-CA-CB	7.20	123.57	110.60	17	1
1	A	107	ARG	NE-CZ-NH2	-7.11	116.75	120.30	9	3
1	A	18	TYR	CB-CG-CD2	-7.10	116.74	121.00	16	5
1	A	213	TYR	CB-CG-CD2	-7.09	116.75	121.00	11	5
1	A	8	SER	N-CA-CB	-7.08	99.88	110.50	14	3
1	A	227	SER	N-CA-CB	-7.07	99.90	110.50	2	4
1	A	177	ARG	NH1-CZ-NH2	7.06	127.17	119.40	7	2
1	A	188	PHE	CB-CG-CD1	7.05	125.74	120.80	5	4
1	A	18	TYR	CG-CD1-CE1	-7.02	115.68	121.30	14	2
1	A	104	THR	CA-CB-CG2	7.01	122.21	112.40	20	2
1	A	96	TYR	CB-CG-CD1	6.99	125.19	121.00	11	3
1	A	220	ASP	CB-CG-OD2	-6.98	112.02	118.30	5	1
1	A	95	SER	CB-CA-C	6.97	123.35	110.10	7	5
1	A	17	ASP	CB-CG-OD2	6.97	124.57	118.30	18	1
1	A	155	THR	OG1-CB-CG2	-6.96	93.99	110.00	5	3
1	A	12	TRP	CD1-NE1-CE2	6.95	115.26	109.00	6	2
1	A	65	PRO	N-CA-CB	6.93	111.62	103.30	10	2
1	A	229	ASP	CB-CG-OD1	6.93	124.53	118.30	12	5
1	A	182	SER	N-CA-CB	-6.90	100.14	110.50	20	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	127	VAL	CA-CB-CG2	6.90	121.25	110.90	17	5
1	A	84	TRP	NE1-CE2-CZ2	6.88	137.96	130.40	4	1
1	A	70	PRO	N-CA-CB	6.86	111.53	103.30	20	2
1	A	164	THR	CA-CB-CG2	6.86	122.00	112.40	19	1
1	A	56	SER	C-N-CA	6.84	138.81	121.70	4	2
1	A	12	TRP	CE3-CZ3-CH2	6.83	128.72	121.20	1	1
1	A	221	PRO	N-CA-CB	6.81	111.47	103.30	2	1
1	A	190	TYR	CG-CD1-CE1	-6.79	115.87	121.30	16	3
1	A	25	TYR	CD1-CE1-CZ	-6.78	113.70	119.80	6	3
1	A	147	TYR	CB-CG-CD1	-6.77	116.94	121.00	2	5
1	A	125	ARG	NH1-CZ-NH2	-6.77	111.95	119.40	18	4
1	A	18	TYR	CG-CD2-CE2	-6.75	115.90	121.30	13	1
1	A	213	TYR	CG-CD2-CE2	-6.75	115.90	121.30	11	1
1	A	238	TYR	CG-CD2-CE2	-6.73	115.92	121.30	9	6
1	A	73	ALA	N-CA-CB	-6.72	100.69	110.10	15	1
1	A	41	GLU	OE1-CD-OE2	-6.72	115.23	123.30	1	4
1	A	65	PRO	N-CD-CG	6.72	113.28	103.20	8	2
1	A	105	VAL	CB-CA-C	6.72	124.17	111.40	19	1
1	A	90	THR	CA-CB-OG1	6.70	123.07	109.00	12	1
1	A	88	VAL	CA-CB-CG2	6.68	120.93	110.90	19	1
1	A	238	TYR	CZ-CE2-CD2	6.64	125.78	119.80	9	6
1	A	24	LEU	CB-CA-C	6.64	122.81	110.20	12	3
1	A	150	ASP	CB-CG-OD1	-6.63	112.33	118.30	20	6
1	A	156	LEU	CB-CG-CD2	6.63	122.27	111.00	4	1
1	A	174	GLU	OE1-CD-OE2	-6.61	115.36	123.30	14	2
1	A	214	PRO	N-CA-CB	6.61	111.23	103.30	6	2
1	A	230	ASP	CB-CG-OD2	-6.60	112.36	118.30	6	3
1	A	178	TRP	CE2-CD2-CG	6.58	112.57	107.30	8	3
1	A	97	THR	CA-CB-OG1	6.58	122.82	109.00	15	2
1	A	57	ARG	CD-NE-CZ	6.58	132.81	123.60	13	5
1	A	12	TRP	CA-CB-CG	6.57	126.19	113.70	1	1
1	A	149	PHE	CB-CG-CD1	-6.57	116.20	120.80	7	2
1	A	4	ALA	N-CA-CB	-6.57	100.90	110.10	19	3
1	A	150	ASP	N-CA-CB	6.56	122.41	110.60	20	1
1	A	132	ALA	CB-CA-C	6.56	119.94	110.10	12	2
1	A	123	HIS	CA-CB-CG	6.53	124.71	113.60	13	3
1	A	229	ASP	CB-CG-OD2	6.53	124.18	118.30	8	4
1	A	72	VAL	CB-CA-C	6.53	123.81	111.40	6	2
1	A	101	PRO	N-CA-CB	6.51	111.11	103.30	9	1
1	A	98	ARG	CA-CB-CG	-6.51	99.08	113.40	11	1
1	A	241	ARG	CD-NE-CZ	6.48	132.68	123.60	18	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	210	ALA	N-CA-CB	-6.48	101.03	110.10	19	1
1	A	145	ASP	N-CA-CB	6.45	122.21	110.60	15	1
1	A	169	ASP	OD1-CG-OD2	-6.45	111.05	123.30	20	8
1	A	12	TRP	CZ3-CH2-CZ2	-6.43	113.88	121.60	1	1
1	A	129	TRP	CB-CG-CD2	6.43	134.95	126.60	6	2
1	A	121	PRO	N-CA-CB	6.42	111.00	103.30	4	1
1	A	213	TYR	CD1-CE1-CZ	-6.42	114.02	119.80	13	1
1	A	6	GLY	C-N-CA	6.41	137.74	121.70	13	1
1	A	7	MET	CG-SD-CE	6.39	110.42	100.20	9	1
1	A	132	ALA	N-CA-CB	-6.38	101.17	110.10	1	3
1	A	91	TYR	CG-CD2-CE2	-6.37	116.20	121.30	6	3
1	A	192	ALA	CB-CA-C	-6.37	100.55	110.10	14	1
1	A	195	ALA	N-CA-CB	-6.33	101.24	110.10	12	2
1	A	147	TYR	N-CA-CB	6.31	121.95	110.60	4	2
1	A	54	LEU	CB-CG-CD1	-6.30	100.29	111.00	1	1
1	A	46	PHE	CZ-CE2-CD2	-6.30	112.54	120.10	10	1
1	A	99	ASP	CB-CG-OD2	6.28	123.95	118.30	5	1
1	A	176	GLU	OE1-CD-OE2	-6.28	115.77	123.30	12	1
1	A	207	ASP	N-CA-CB	-6.27	99.32	110.60	9	2
1	A	168	GLY	CA-C-O	-6.26	109.33	120.60	16	1
1	A	46	PHE	CB-CG-CD1	6.25	125.17	120.80	10	1
1	A	105	VAL	CA-CB-CG1	6.24	120.26	110.90	18	2
1	A	177	ARG	NE-CZ-NH1	6.22	123.41	120.30	1	6
1	A	213	TYR	CG-CD1-CE1	-6.21	116.33	121.30	3	1
1	A	116	TRP	CG-CD1-NE1	-6.17	103.93	110.10	16	1
1	A	92	ARG	CD-NE-CZ	6.16	132.23	123.60	9	3
1	A	8	SER	CB-CA-C	6.16	121.81	110.10	6	1
1	A	116	TRP	CE2-CD2-CG	6.15	112.22	107.30	20	2
1	A	13	GLU	OE1-CD-OE2	-6.14	115.93	123.30	10	2
1	A	104	THR	CA-CB-OG1	6.13	121.86	109.00	15	5
1	A	212	MET	CA-CB-CG	6.12	123.71	113.30	4	1
1	A	128	VAL	CA-CB-CG2	6.12	120.09	110.90	10	4
1	A	91	TYR	CG-CD1-CE1	-6.12	116.40	121.30	10	3
1	A	60	GLU	OE1-CD-OE2	-6.12	115.96	123.30	9	1
1	A	46	PHE	CG-CD1-CE1	-6.12	114.07	120.80	10	1
1	A	150	ASP	CB-CG-OD2	-6.08	112.83	118.30	8	3
1	A	89	VAL	CA-CB-CG1	6.08	120.02	110.90	4	1
1	A	116	TRP	NE1-CE2-CZ2	6.07	137.08	130.40	9	2
1	A	23	TYR	CZ-CE2-CD2	-6.06	114.34	119.80	15	2
1	A	157	ALA	C-N-CA	6.06	136.85	121.70	9	1
1	A	198	HIS	O-C-N	-6.06	113.00	122.70	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	84	TRP	CB-CG-CD2	6.05	134.47	126.60	9	2
1	A	155	THR	N-CA-CB	6.05	121.79	110.30	10	1
1	A	98	ARG	NH1-CZ-NH2	-6.05	112.75	119.40	18	2
1	A	125	ARG	CD-NE-CZ	6.04	132.05	123.60	8	6
1	A	135	MET	CG-SD-CE	6.03	109.85	100.20	3	2
1	A	238	TYR	CD1-CG-CD2	6.01	124.51	117.90	1	1
1	A	115	MET	CG-SD-CE	6.01	109.81	100.20	2	2
1	A	70	PRO	N-CD-CG	6.01	112.21	103.20	8	2
1	A	92	ARG	NH1-CZ-NH2	6.00	126.00	119.40	18	1
1	A	172	PHE	CZ-CE2-CD2	5.99	127.29	120.10	1	1
1	A	12	TRP	CE2-CD2-CE3	-5.99	111.51	118.70	6	1
1	A	200	LEU	CB-CA-C	-5.99	98.82	110.20	17	2
1	A	160	PHE	CG-CD2-CE2	-5.99	114.21	120.80	3	1
1	A	190	TYR	CZ-CE2-CD2	-5.99	114.41	119.80	5	1
1	A	149	PHE	C-N-CA	5.99	136.67	121.70	7	3
1	A	12	TRP	NE1-CE2-CD2	-5.97	101.33	107.30	6	1
1	A	148	PRO	N-CD-CG	5.97	112.16	103.20	15	1
1	A	188	PHE	O-C-N	-5.97	113.15	122.70	4	1
1	A	89	VAL	CA-CB-CG2	5.95	119.82	110.90	13	1
1	A	229	ASP	C-N-CA	5.94	136.56	121.70	15	1
1	A	36	GLU	N-CA-CB	-5.93	99.93	110.60	2	1
1	A	156	LEU	CB-CG-CD1	5.91	121.05	111.00	9	2
1	A	22	PHE	CB-CG-CD1	-5.90	116.67	120.80	16	4
1	A	110	SER	N-CA-CB	-5.89	101.67	110.50	7	3
1	A	109	VAL	CA-CB-CG2	5.88	119.72	110.90	17	2
1	A	86	SER	CB-CA-C	5.87	121.24	110.10	19	2
1	A	94	VAL	CA-CB-CG2	5.86	119.70	110.90	8	4
1	A	152	PRO	N-CD-CG	5.85	111.98	103.20	18	1
1	A	149	PHE	CA-CB-CG	5.84	127.92	113.90	7	1
1	A	103	ILE	CA-CB-CG1	5.83	122.09	111.00	9	1
1	A	28	GLU	O-C-N	-5.83	113.37	122.70	10	1
1	A	94	VAL	CA-CB-CG1	5.82	119.63	110.90	3	1
1	A	143	HIS	CA-CB-CG	5.81	123.48	113.60	11	4
1	A	58	VAL	CG1-CB-CG2	-5.81	101.61	110.90	15	1
1	A	116	TRP	CH2-CZ2-CE2	5.80	123.20	117.40	14	3
1	A	149	PHE	CG-CD2-CE2	5.80	127.18	120.80	9	2
1	A	158	HIS	CB-CA-C	5.80	122.00	110.40	1	1
1	A	31	ASN	N-CA-CB	5.80	121.04	110.60	11	1
1	A	188	PHE	CZ-CE2-CD2	5.79	127.05	120.10	15	1
1	A	178	TRP	CG-CD1-NE1	-5.79	104.31	110.10	18	1
1	A	107	ARG	CD-NE-CZ	5.78	131.70	123.60	6	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	178	TRP	CH2-CZ2-CE2	5.78	123.18	117.40	4	1
1	A	99	ASP	CB-CG-OD1	5.78	123.50	118.30	8	2
1	A	22	PHE	CZ-CE2-CD2	-5.78	113.17	120.10	15	1
1	A	26	ASP	CB-CA-C	5.76	121.92	110.40	3	2
1	A	58	VAL	CB-CA-C	5.76	122.34	111.40	6	1
1	A	12	TRP	NE1-CE2-CZ2	5.75	136.73	130.40	17	1
1	A	244	SER	CB-CA-C	5.75	121.02	110.10	1	2
1	A	12	TRP	CG-CD2-CE3	5.75	139.07	133.90	14	1
1	A	116	TRP	CE3-CZ3-CH2	-5.75	114.88	121.20	16	1
1	A	51	THR	CA-CB-OG1	5.75	121.07	109.00	17	1
1	A	194	HIS	CA-CB-CG	5.74	123.36	113.60	13	2
1	A	178	TRP	CD1-CG-CD2	-5.74	101.71	106.30	8	1
1	A	133	ASP	CB-CG-OD1	5.74	123.46	118.30	19	2
1	A	84	TRP	CB-CG-CD1	-5.73	119.55	127.00	11	3
1	A	96	TYR	CB-CA-C	5.73	121.86	110.40	13	2
1	A	164	THR	C-N-CA	5.73	134.33	122.30	19	2
1	A	215	THR	CA-CB-CG2	5.73	120.42	112.40	11	1
1	A	30	LYS	C-N-CA	5.72	136.01	121.70	8	2
1	A	136	ILE	CA-CB-CG1	5.72	121.87	111.00	15	1
1	A	190	TYR	CG-CD2-CE2	-5.71	116.73	121.30	19	1
1	A	213	TYR	CA-CB-CG	5.71	124.24	113.40	5	1
1	A	178	TRP	NE1-CE2-CZ2	5.68	136.65	130.40	18	4
1	A	127	VAL	CG1-CB-CG2	5.68	119.99	110.90	10	1
1	A	90	THR	CA-CB-CG2	5.68	120.35	112.40	11	1
1	A	237	LEU	CB-CG-CD2	-5.68	101.35	111.00	4	1
1	A	129	TRP	CE3-CZ3-CH2	5.68	127.45	121.20	11	1
1	A	111	LYS	C-N-CA	5.68	135.89	121.70	18	1
1	A	113	LEU	CB-CG-CD2	5.67	120.63	111.00	11	1
1	A	75	TYR	CZ-CE2-CD2	5.66	124.90	119.80	16	1
1	A	227	SER	CB-CA-C	5.65	120.83	110.10	20	1
1	A	45	PHE	CA-CB-CG	5.64	127.45	113.90	2	2
1	A	129	TRP	NE1-CE2-CD2	-5.64	101.66	107.30	11	2
1	A	88	VAL	C-N-CA	5.63	135.78	121.70	3	1
1	A	26	ASP	OD1-CG-OD2	-5.62	112.61	123.30	1	1
1	A	129	TRP	CG-CD1-NE1	5.61	115.71	110.10	3	1
1	A	225	LYS	CB-CA-C	5.61	121.62	110.40	17	1
1	A	18	TYR	CD1-CG-CD2	5.60	124.06	117.90	13	1
1	A	171	HIS	CB-CA-C	5.60	121.60	110.40	15	2
1	A	45	PHE	CG-CD2-CE2	-5.59	114.65	120.80	3	1
1	A	46	PHE	CD1-CE1-CZ	-5.59	113.39	120.10	4	1
1	A	212	MET	CG-SD-CE	5.59	109.14	100.20	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	60	GLU	O-C-N	-5.58	113.78	122.70	9	2
1	A	59	ILE	CA-CB-CG2	5.57	122.04	110.90	13	1
1	A	212	MET	CB-CA-C	5.57	121.54	110.40	20	1
1	A	104	THR	O-C-N	-5.57	113.79	122.70	7	1
1	A	45	PHE	CA-C-N	5.57	129.45	117.20	5	1
1	A	73	ALA	CB-CA-C	-5.57	101.75	110.10	20	2
1	A	121	PRO	N-CD-CG	5.56	111.55	103.20	14	1
1	A	94	VAL	C-N-CA	5.55	135.59	121.70	10	1
1	A	17	ASP	CB-CG-OD1	5.55	123.30	118.30	17	1
1	A	91	TYR	CZ-CE2-CD2	5.54	124.79	119.80	13	1
1	A	208	PRO	N-CD-CG	5.54	111.51	103.20	20	2
1	A	41	GLU	O-C-N	-5.54	113.84	122.70	15	1
1	A	154	ASN	C-N-CA	5.53	135.53	121.70	7	2
1	A	193	THR	OG1-CB-CG2	-5.53	97.28	110.00	11	1
1	A	128	VAL	C-N-CA	5.53	135.52	121.70	8	2
1	A	27	SER	N-CA-CB	-5.53	102.21	110.50	15	2
1	A	131	THR	CA-CB-OG1	5.50	120.55	109.00	5	1
1	A	12	TRP	CB-CG-CD1	-5.50	119.85	127.00	20	1
1	A	25	TYR	CB-CA-C	5.50	121.39	110.40	5	1
1	A	152	PRO	N-CA-CB	5.49	109.89	103.30	8	1
1	A	158	HIS	CA-CB-CG	5.48	122.92	113.60	5	2
1	A	164	THR	OG1-CB-CG2	-5.47	97.41	110.00	17	1
1	A	83	LYS	O-C-N	-5.47	113.94	122.70	18	1
1	A	84	TRP	CG-CD1-NE1	5.47	115.57	110.10	17	1
1	A	241	ARG	N-CA-CB	-5.47	100.76	110.60	8	1
1	A	89	VAL	CB-CA-C	5.46	121.78	111.40	12	2
1	A	124	PHE	CD1-CE1-CZ	5.46	126.65	120.10	12	2
1	A	29	THR	OG1-CB-CG2	-5.45	97.47	110.00	9	2
1	A	59	ILE	CA-CB-CG1	5.44	121.34	111.00	12	1
1	A	139	ALA	N-CA-CB	5.44	117.72	110.10	17	1
1	A	133	ASP	C-N-CA	5.44	135.29	121.70	19	1
1	A	57	ARG	C-N-CA	5.43	135.28	121.70	9	2
1	A	116	TRP	CZ3-CH2-CZ2	-5.43	115.08	121.60	14	1
1	A	84	TRP	CD2-CE3-CZ3	5.42	125.85	118.80	10	1
1	A	58	VAL	CA-CB-CG1	5.42	119.03	110.90	16	1
1	A	3	GLU	OE1-CD-OE2	-5.42	116.79	123.30	9	1
1	A	241	ARG	NH1-CZ-NH2	-5.42	113.44	119.40	6	1
1	A	40	LYS	C-N-CA	5.42	135.24	121.70	17	1
1	A	46	PHE	CG-CD2-CE2	5.41	126.75	120.80	7	1
1	A	45	PHE	CG-CD1-CE1	-5.41	114.85	120.80	1	1
1	A	204	HIS	N-CA-C	5.41	125.60	111.00	5	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	170	ALA	CB-CA-C	5.41	118.21	110.10	17	2
1	A	29	THR	CA-CB-OG1	-5.40	97.66	109.00	6	1
1	A	5	GLY	C-N-CA	5.40	133.63	122.30	11	1
1	A	58	VAL	CA-CB-CG2	5.39	118.99	110.90	12	1
1	A	232	LYS	CA-C-N	5.39	126.98	116.20	2	1
1	A	161	ALA	N-CA-CB	-5.37	102.59	110.10	10	2
1	A	237	LEU	CB-CG-CD1	-5.36	101.89	111.00	10	1
1	A	100	LEU	CB-CG-CD2	5.36	120.10	111.00	19	1
1	A	238	TYR	C-N-CA	5.35	133.54	122.30	9	1
1	A	161	ALA	CB-CA-C	-5.35	102.08	110.10	4	3
1	A	176	GLU	N-CA-CB	-5.35	100.97	110.60	17	1
1	A	84	TRP	CG-CD2-CE3	5.35	138.71	133.90	11	1
1	A	2	GLN	CB-CA-C	5.34	121.08	110.40	6	1
1	A	238	TYR	CD1-CE1-CZ	-5.34	114.99	119.80	10	1
1	A	41	GLU	CA-CB-CG	5.34	125.15	113.40	16	1
1	A	124	PHE	CG-CD1-CE1	-5.33	114.93	120.80	1	2
1	A	85	THR	CA-CB-OG1	5.33	120.20	109.00	15	1
1	A	23	TYR	N-CA-CB	-5.33	101.01	110.60	2	1
1	A	74	GLU	CB-CA-C	5.32	121.03	110.40	1	2
1	A	42	MET	N-CA-C	5.32	125.36	111.00	9	1
1	A	129	TRP	CD1-NE1-CE2	-5.31	104.22	109.00	3	2
1	A	206	SER	C-N-CA	5.31	134.98	121.70	16	1
1	A	193	THR	O-C-N	-5.31	114.20	122.70	17	1
1	A	129	TRP	C-N-CA	5.30	133.44	122.30	12	2
1	A	135	MET	CA-CB-CG	5.30	122.31	113.30	1	1
1	A	223	ASN	C-N-CA	5.30	134.96	121.70	4	3
1	A	157	ALA	CB-CA-C	5.30	118.05	110.10	11	1
1	A	111	LYS	N-CA-CB	-5.28	101.11	110.60	9	1
1	A	84	TRP	CH2-CZ2-CE2	5.27	122.67	117.40	7	1
1	A	67	CYS	CB-CA-C	-5.26	99.87	110.40	8	1
1	A	99	ASP	CA-CB-CG	5.25	124.95	113.40	18	1
1	A	121	PRO	C-N-CA	5.25	134.82	121.70	9	1
1	A	43	GLN	N-CA-CB	5.25	120.05	110.60	17	1
1	A	67	CYS	CA-CB-SG	-5.25	104.56	114.00	11	1
1	A	57	ARG	N-CA-CB	-5.24	101.16	110.60	19	1
1	A	44	LYS	CA-CB-CG	5.24	124.93	113.40	11	1
1	A	239	GLY	O-C-N	-5.24	114.32	122.70	14	1
1	A	23	TYR	CG-CD1-CE1	5.23	125.49	121.30	3	1
1	A	143	HIS	N-CA-CB	-5.23	101.18	110.60	6	2
1	A	91	TYR	CD1-CE1-CZ	5.23	124.51	119.80	15	1
1	A	82	PRO	N-CD-CG	5.23	111.05	103.20	13	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	32	ALA	N-CA-CB	5.23	117.42	110.10	6	1
1	A	209	ASN	C-N-CA	5.22	134.76	121.70	18	1
1	A	116	TRP	CB-CG-CD2	5.22	133.39	126.60	1	2
1	A	10	LEU	CB-CG-CD1	5.22	119.87	111.00	8	1
1	A	145	ASP	CB-CA-C	-5.22	99.96	110.40	11	1
1	A	61	ILE	CB-CA-C	5.22	122.03	111.60	14	1
1	A	62	MET	N-CA-CB	-5.22	101.21	110.60	5	1
1	A	45	PHE	CB-CA-C	5.22	120.83	110.40	10	1
1	A	207	ASP	CB-CG-OD2	-5.21	113.61	118.30	20	1
1	A	106	ASP	OD1-CG-OD2	-5.21	113.40	123.30	14	1
1	A	125	ARG	N-CA-CB	-5.21	101.22	110.60	10	1
1	A	98	ARG	CB-CA-C	5.21	120.82	110.40	8	1
1	A	218	ASN	C-N-CA	5.21	133.23	122.30	10	1
1	A	3	GLU	C-N-CA	5.20	134.71	121.70	2	1
1	A	3	GLU	O-C-N	-5.20	114.38	122.70	9	1
1	A	57	ARG	O-C-N	-5.19	114.40	122.70	9	1
1	A	12	TRP	CH2-CZ2-CE2	5.19	122.59	117.40	17	1
1	A	200	LEU	CB-CG-CD2	5.19	119.82	111.00	15	1
1	A	129	TRP	CE2-CD2-CG	5.18	111.45	107.30	20	1
1	A	215	THR	N-CA-CB	-5.18	100.45	110.30	2	1
1	A	100	LEU	CB-CG-CD1	5.18	119.81	111.00	13	1
1	A	188	PHE	CG-CD1-CE1	5.16	126.48	120.80	16	1
1	A	18	TYR	N-CA-CB	-5.16	101.31	110.60	6	1
1	A	211	VAL	CG1-CB-CG2	-5.16	102.64	110.90	13	2
1	A	190	TYR	O-C-N	-5.16	114.44	122.70	14	1
1	A	23	TYR	CD1-CG-CD2	5.16	123.57	117.90	1	1
1	A	52	GLY	CA-C-O	-5.16	111.31	120.60	14	1
1	A	24	LEU	C-N-CA	5.16	134.59	121.70	15	1
1	A	65	PRO	CA-N-CD	-5.16	104.28	111.50	8	1
1	A	147	TYR	CD1-CG-CD2	5.15	123.57	117.90	3	1
1	A	129	TRP	CD1-CG-CD2	-5.15	102.18	106.30	15	1
1	A	215	THR	CA-CB-OG1	5.14	119.80	109.00	4	1
1	A	18	TYR	CD1-CE1-CZ	5.14	124.43	119.80	17	2
1	A	120	ILE	CA-CB-CG1	5.13	120.74	111.00	1	1
1	A	226	LEU	CB-CG-CD1	-5.13	102.28	111.00	8	1
1	A	106	ASP	CA-CB-CG	5.12	124.68	113.40	17	1
1	A	211	VAL	O-C-N	-5.12	114.51	122.70	1	1
1	A	231	ILE	O-C-N	-5.12	114.52	122.70	6	1
1	A	208	PRO	N-CA-CB	5.11	109.44	103.30	10	3
1	A	91	TYR	CB-CA-C	5.11	120.62	110.40	11	1
1	A	54	LEU	CB-CG-CD2	-5.11	102.32	111.00	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	23	TYR	C-N-CA	5.10	134.45	121.70	8	1
1	A	102	HIS	N-CA-C	5.09	124.75	111.00	5	1
1	A	84	TRP	CE2-CD2-CE3	-5.09	112.59	118.70	2	1
1	A	128	VAL	CA-CB-CG1	5.09	118.54	110.90	13	1
1	A	202	MET	CG-SD-CE	-5.09	92.05	100.20	19	1
1	A	224	PHE	CB-CA-C	5.09	120.58	110.40	6	1
1	A	14	GLN	CG-CD-OE1	-5.09	111.42	121.60	15	1
1	A	108	LEU	O-C-N	-5.09	114.56	122.70	5	1
1	A	95	SER	O-C-N	-5.08	114.57	122.70	4	1
1	A	206	SER	O-C-N	-5.08	114.58	122.70	18	1
1	A	28	GLU	CA-CB-CG	5.07	124.56	113.40	5	1
1	A	206	SER	N-CA-CB	-5.07	102.90	110.50	12	1
1	A	210	ALA	CB-CA-C	-5.06	102.51	110.10	7	1
1	A	131	THR	CA-CB-CG2	-5.06	105.32	112.40	6	1
1	A	96	TYR	CG-CD2-CE2	-5.06	117.25	121.30	13	1
1	A	29	THR	C-N-CA	5.06	134.34	121.70	6	1
1	A	149	PHE	CZ-CE2-CD2	-5.05	114.04	120.10	9	1
1	A	48	LEU	CB-CG-CD1	5.05	119.58	111.00	3	1
1	A	116	TRP	CA-CB-CG	5.04	123.28	113.70	15	1
1	A	163	GLY	O-C-N	5.04	130.76	122.70	1	1
1	A	93	ILE	CA-CB-CG2	5.04	120.97	110.90	1	1
1	A	53	MET	O-C-N	5.04	130.75	122.70	5	1
1	A	2	GLN	N-CA-CB	-5.04	101.54	110.60	10	1
1	A	122	LEU	O-C-N	5.03	130.75	122.70	7	1
1	A	174	GLU	CA-CB-CG	5.03	124.47	113.40	14	1
1	A	194	HIS	N-CA-CB	-5.03	101.55	110.60	12	1
1	A	112	ALA	N-CA-CB	-5.02	103.07	110.10	16	1
1	A	69	VAL	CA-CB-CG2	5.02	118.43	110.90	2	1
1	A	15	ALA	N-CA-CB	-5.02	103.07	110.10	5	1
1	A	210	ALA	C-N-CA	5.02	134.25	121.70	15	1
1	A	220	ASP	CB-CA-C	-5.01	100.38	110.40	20	1
1	A	102	HIS	O-C-N	5.01	130.72	122.70	14	1
1	A	183	SER	N-CA-CB	5.00	118.01	110.50	11	1
1	A	63	GLN	CA-CB-CG	5.00	124.41	113.40	8	1

There are no chirality outliers.

All unique planar outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	238	TYR	Sidechain	11

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Mol	Chain	Res	Type	Group	Models (Total)
1	A	18	TYR	Sidechain	8
1	A	96	TYR	Sidechain	7
1	A	190	TYR	Sidechain	7
1	A	147	TYR	Sidechain	6
1	A	149	PHE	Sidechain,Peptide	6
1	A	213	TYR	Sidechain	5
1	A	25	TYR	Sidechain	5
1	A	91	TYR	Sidechain	5
1	A	22	PHE	Sidechain	4
1	A	188	PHE	Sidechain	4
1	A	23	TYR	Sidechain	4
1	A	216	TYR	Sidechain	4
1	A	45	PHE	Sidechain	4
1	A	157	ALA	Peptide	4
1	A	71	ASP	Sidechain	3
1	A	140	ARG	Peptide,Sidechain	3
1	A	143	HIS	Sidechain,Mainchain	3
1	A	75	TYR	Sidechain	3
1	A	123	HIS	Sidechain	2
1	A	124	PHE	Sidechain	2
1	A	158	HIS	Sidechain	2
1	A	66	ARG	Sidechain	2
1	A	198	HIS	Sidechain	2
1	A	138	PHE	Sidechain	2
1	A	168	GLY	Peptide	2
1	A	150	ASP	Peptide	1
1	A	30	LYS	Peptide	1
1	A	41	GLU	Peptide	1
1	A	49	PRO	Mainchain	1
1	A	98	ARG	Sidechain	1
1	A	14	GLN	Mainchain	1
1	A	179	THR	Peptide	1
1	A	235	GLN	Sidechain	1
1	A	240	LYS	Mainchain	1
1	A	224	PHE	Sidechain	1
1	A	241	ARG	Sidechain	1
1	A	177	ARG	Sidechain	1
1	A	125	ARG	Sidechain	1
1	A	215	THR	Mainchain	1
1	A	46	PHE	Peptide	1
1	A	160	PHE	Sidechain	1
1	A	219	GLY	Peptide	1

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Mol	Chain	Res	Type	Group	Models (Total)
1	A	169	ASP	Sidechain	1
1	A	57	ARG	Sidechain	1
1	A	95	SER	Mainchain	1
1	A	107	ARG	Sidechain	1
1	A	139	ALA	Peptide	1
1	A	36	GLU	Mainchain	1
1	A	102	HIS	Sidechain	1
1	A	129	TRP	Peptide	1
1	A	167	GLY	Mainchain	1
1	A	183	SER	Mainchain	1
1	A	133	ASP	Peptide	1
1	A	181	GLY	Peptide	1
1	A	204	HIS	Sidechain	1
1	A	28	GLU	Mainchain	1
1	A	130	GLY	Peptide	1
1	A	197	GLY	Peptide	1
1	A	61	ILE	Mainchain	1

## 6.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1861	1796	1796	4±2
4	A	5796	0	9072	122±10
5	A	192	270	272	3±2
All	All	157060	41320	222802	2459

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 6.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:384:PX4:H50	4:A:427:PX4:H60	0.91	1.43	1	1
4:A:328:PX4:H39	4:A:351:PX4:H23	0.90	1.41	12	1
4:A:386:PX4:H42	4:A:417:PX4:H38	0.85	1.47	3	1
4:A:308:PX4:H17	4:A:326:PX4:H55	0.84	1.49	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:367:PX4:H16	4:A:399:PX4:H47	0.84	1.48	17	1
4:A:353:PX4:H53	4:A:361:PX4:H21	0.84	1.47	13	1
4:A:309:PX4:H17	4:A:328:PX4:H24	0.84	1.47	20	1
4:A:372:PX4:H31	4:A:410:PX4:H66	0.84	1.50	6	1
4:A:316:PX4:H17	4:A:352:PX4:H19	0.84	1.48	17	1
4:A:381:PX4:H14	4:A:394:PX4:H47	0.82	1.49	6	1
4:A:327:PX4:H23	4:A:348:PX4:H47	0.82	1.49	18	1
4:A:326:PX4:H35	4:A:355:PX4:H31	0.82	1.50	5	1
4:A:329:PX4:H19	4:A:335:PX4:H26	0.82	1.52	11	1
4:A:359:PX4:H64	4:A:375:PX4:H43	0.82	1.52	15	1
4:A:327:PX4:H35	4:A:359:PX4:H60	0.82	1.52	10	1
4:A:313:PX4:H25	4:A:362:PX4:H26	0.81	1.52	15	1
4:A:345:PX4:H46	4:A:358:PX4:H16	0.81	1.53	13	1
4:A:319:PX4:H34	4:A:319:PX4:H67	0.81	1.49	16	1
4:A:386:PX4:H16	4:A:402:PX4:H14	0.81	1.50	16	1
4:A:412:PX4:H50	4:A:424:PX4:H48	0.81	1.51	14	1
4:A:417:PX4:H21	4:A:421:PX4:H61	0.80	1.52	20	1
4:A:392:PX4:H47	4:A:425:PX4:H16	0.80	1.53	19	1
4:A:306:PX4:H52	4:A:342:PX4:H25	0.80	1.52	9	1
4:A:382:PX4:H46	4:A:423:PX4:H32	0.79	1.53	20	1
4:A:367:PX4:H38	4:A:389:PX4:H29	0.78	1.56	14	1
4:A:373:PX4:H50	4:A:410:PX4:H19	0.78	1.54	15	1
4:A:369:PX4:H52	4:A:419:PX4:H19	0.78	1.56	6	1
4:A:308:PX4:H42	4:A:332:PX4:H38	0.78	1.55	17	1
4:A:390:PX4:H31	4:A:416:PX4:H33	0.77	1.56	11	1
4:A:328:PX4:H58	4:A:347:PX4:H53	0.77	1.55	14	1
4:A:352:PX4:H40	4:A:375:PX4:H44	0.77	1.56	18	1
4:A:398:PX4:H30	4:A:399:PX4:H34	0.77	1.54	6	1
4:A:384:PX4:H59	4:A:427:PX4:H63	0.77	1.57	13	1
4:A:374:PX4:H69	4:A:429:PX4:H63	0.76	1.54	20	1
4:A:319:PX4:H62	4:A:343:PX4:H23	0.76	1.56	1	1
4:A:365:PX4:H63	4:A:376:PX4:H23	0.75	1.57	14	1
4:A:322:PX4:H66	4:A:430:PX4:H69	0.75	1.57	17	1
4:A:366:PX4:H47	4:A:403:PX4:H16	0.75	1.59	12	2
4:A:324:PX4:H53	4:A:333:PX4:H28	0.75	1.59	13	1
4:A:360:PX4:H66	4:A:379:PX4:H39	0.75	1.57	12	1
4:A:323:PX4:H61	4:A:325:PX4:H62	0.75	1.57	20	1
4:A:383:PX4:H61	4:A:394:PX4:H50	0.75	1.55	2	1
4:A:397:PX4:H56	4:A:430:PX4:H27	0.75	1.56	16	1
4:A:365:PX4:H30	4:A:383:PX4:H35	0.75	1.57	19	1
4:A:429:PX4:H69	4:A:430:PX4:H31	0.74	1.59	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:306:PX4:H62	4:A:342:PX4:H39	0.74	1.59	11	1
4:A:329:PX4:H42	4:A:335:PX4:H59	0.74	1.57	7	1
4:A:332:PX4:H47	4:A:348:PX4:H47	0.74	1.58	13	1
4:A:391:PX4:H28	4:A:408:PX4:H56	0.74	1.59	5	1
4:A:370:PX4:H17	4:A:430:PX4:H50	0.74	1.58	8	3
4:A:373:PX4:H59	4:A:406:PX4:H26	0.73	1.59	11	1
4:A:327:PX4:H21	4:A:348:PX4:H22	0.73	1.58	4	1
4:A:369:PX4:H30	4:A:429:PX4:H66	0.73	1.60	17	1
4:A:371:PX4:H18	4:A:401:PX4:H33	0.73	1.59	17	1
4:A:313:PX4:H17	4:A:329:PX4:H48	0.73	1.58	4	1
4:A:409:PX4:H17	4:A:412:PX4:H19	0.73	1.60	4	1
4:A:333:PX4:H48	4:A:364:PX4:H53	0.73	1.61	20	1
4:A:341:PX4:H30	4:A:356:PX4:H29	0.73	1.60	17	1
4:A:330:PX4:H20	4:A:337:PX4:H16	0.73	1.59	14	2
4:A:385:PX4:H59	4:A:387:PX4:H54	0.73	1.58	18	1
4:A:306:PX4:H48	4:A:342:PX4:H22	0.73	1.59	9	2
4:A:325:PX4:H57	4:A:353:PX4:H54	0.73	1.59	7	1
4:A:372:PX4:H65	4:A:420:PX4:H69	0.73	1.61	4	1
4:A:389:PX4:H16	4:A:399:PX4:H46	0.73	1.60	5	1
4:A:382:PX4:H66	4:A:397:PX4:H40	0.73	1.59	10	1
4:A:370:PX4:H48	4:A:381:PX4:H47	0.73	1.61	12	1
4:A:365:PX4:H30	4:A:369:PX4:H41	0.72	1.59	1	1
4:A:393:PX4:H16	4:A:419:PX4:H20	0.72	1.61	16	1
4:A:323:PX4:H37	4:A:347:PX4:H20	0.72	1.58	8	1
4:A:361:PX4:H57	4:A:403:PX4:H34	0.72	1.62	12	1
4:A:417:PX4:H22	4:A:418:PX4:H26	0.72	1.59	16	1
4:A:317:PX4:H20	4:A:326:PX4:H16	0.72	1.61	16	1
4:A:316:PX4:H53	4:A:343:PX4:H26	0.72	1.62	7	1
4:A:347:PX4:H46	4:A:360:PX4:H19	0.72	1.61	12	1
4:A:344:PX4:H47	4:A:354:PX4:H9	0.72	1.61	19	1
4:A:383:PX4:H30	4:A:405:PX4:H72	0.71	1.61	1	1
4:A:311:PX4:H20	4:A:324:PX4:H69	0.71	1.63	7	1
4:A:317:PX4:H24	4:A:326:PX4:H21	0.71	1.61	8	1
4:A:366:PX4:H57	4:A:403:PX4:H50	0.71	1.61	1	1
4:A:353:PX4:H23	4:A:361:PX4:H32	0.71	1.61	7	1
4:A:375:PX4:H28	4:A:407:PX4:H29	0.71	1.63	14	1
4:A:307:PX4:H49	4:A:337:PX4:H53	0.71	1.60	17	1
4:A:345:PX4:H62	4:A:359:PX4:H17	0.71	1.60	3	1
4:A:338:PX4:H46	4:A:347:PX4:H57	0.71	1.63	6	1
4:A:316:PX4:H41	4:A:399:PX4:H68	0.71	1.61	6	1
4:A:316:PX4:H50	4:A:343:PX4:H24	0.70	1.62	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:307:PX4:H22	4:A:337:PX4:H52	0.70	1.63	15	1
4:A:397:PX4:H19	4:A:423:PX4:H61	0.70	1.63	4	1
4:A:334:PX4:H70	4:A:373:PX4:H33	0.70	1.63	8	1
4:A:308:PX4:H17	4:A:426:PX4:H45	0.70	1.62	9	1
4:A:367:PX4:H42	4:A:389:PX4:H33	0.70	1.61	14	1
4:A:324:PX4:H18	4:A:324:PX4:H1	0.70	1.63	5	1
4:A:413:PX4:H35	4:A:428:PX4:H34	0.70	1.63	6	1
4:A:333:PX4:H20	5:A:432:C3S:H443	0.70	1.61	4	1
4:A:395:PX4:H60	4:A:405:PX4:H31	0.70	1.62	2	1
4:A:332:PX4:H37	4:A:350:PX4:H22	0.70	1.64	2	1
4:A:324:PX4:H38	4:A:368:PX4:H41	0.70	1.64	11	1
4:A:360:PX4:H37	4:A:393:PX4:H72	0.70	1.61	11	1
4:A:365:PX4:H21	4:A:383:PX4:H31	0.70	1.64	12	1
4:A:312:PX4:H49	4:A:324:PX4:H26	0.70	1.62	11	1
4:A:369:PX4:H44	4:A:429:PX4:H65	0.69	1.64	14	1
4:A:397:PX4:H67	4:A:411:PX4:H42	0.69	1.64	1	1
4:A:369:PX4:H20	4:A:430:PX4:H16	0.69	1.64	8	1
4:A:373:PX4:H16	4:A:389:PX4:H49	0.69	1.64	19	1
4:A:369:PX4:H51	4:A:419:PX4:H57	0.69	1.62	8	1
4:A:397:PX4:H66	4:A:423:PX4:H68	0.69	1.64	12	1
4:A:347:PX4:H61	4:A:360:PX4:H47	0.69	1.63	20	1
4:A:371:PX4:H20	4:A:401:PX4:H41	0.69	1.65	5	1
4:A:428:PX4:H72	4:A:429:PX4:H56	0.69	1.64	5	1
4:A:391:PX4:H16	4:A:427:PX4:H14	0.69	1.63	2	1
4:A:343:PX4:H17	4:A:356:PX4:H46	0.69	1.65	17	1
4:A:308:PX4:H59	4:A:326:PX4:H26	0.69	1.62	18	1
4:A:343:PX4:H48	4:A:356:PX4:H51	0.69	1.64	4	1
4:A:370:PX4:H62	4:A:381:PX4:H60	0.68	1.65	3	1
4:A:388:PX4:H17	4:A:391:PX4:H50	0.68	1.63	18	1
4:A:369:PX4:H58	4:A:429:PX4:H21	0.68	1.64	19	1
4:A:388:PX4:H48	4:A:388:PX4:H27	0.68	1.65	7	1
4:A:386:PX4:H58	4:A:402:PX4:H25	0.68	1.64	9	1
4:A:371:PX4:H19	4:A:386:PX4:H53	0.68	1.64	19	1
4:A:394:PX4:H51	4:A:430:PX4:H59	0.68	1.66	20	1
4:A:318:PX4:H53	4:A:357:PX4:H23	0.68	1.65	6	1
4:A:388:PX4:H67	4:A:390:PX4:H58	0.68	1.65	11	1
4:A:316:PX4:H21	4:A:321:PX4:H16	0.68	1.65	3	1
4:A:365:PX4:H52	4:A:396:PX4:H49	0.68	1.66	6	1
4:A:408:PX4:H67	4:A:427:PX4:H62	0.68	1.66	2	1
4:A:339:PX4:H42	4:A:346:PX4:H66	0.68	1.66	20	1
4:A:322:PX4:H38	4:A:344:PX4:H41	0.68	1.65	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:358:PX4:H54	4:A:358:PX4:H23	0.68	1.66	11	1
4:A:365:PX4:H55	4:A:383:PX4:H23	0.68	1.66	13	1
4:A:315:PX4:H57	4:A:350:PX4:H19	0.68	1.66	20	1
4:A:352:PX4:O6	4:A:352:PX4:H7	0.68	1.89	20	1
4:A:393:PX4:H21	4:A:429:PX4:H38	0.68	1.67	4	1
4:A:366:PX4:H22	4:A:403:PX4:H32	0.68	1.64	18	1
4:A:376:PX4:H17	4:A:388:PX4:H19	0.67	1.65	4	1
4:A:307:PX4:H29	4:A:327:PX4:H56	0.67	1.64	2	1
4:A:318:PX4:H22	4:A:321:PX4:H51	0.67	1.65	7	1
4:A:316:PX4:H32	4:A:318:PX4:H40	0.67	1.67	14	1
4:A:322:PX4:H50	4:A:337:PX4:H17	0.67	1.65	13	1
4:A:365:PX4:H55	4:A:376:PX4:H55	0.67	1.64	18	1
4:A:306:PX4:H36	4:A:342:PX4:H41	0.67	1.66	13	1
4:A:312:PX4:H20	4:A:346:PX4:H19	0.67	1.64	10	1
4:A:327:PX4:H23	4:A:338:PX4:H58	0.67	1.65	12	1
4:A:320:PX4:H35	4:A:332:PX4:H38	0.67	1.64	7	1
4:A:400:PX4:H33	4:A:401:PX4:H67	0.67	1.67	20	1
4:A:320:PX4:H63	4:A:334:PX4:H59	0.67	1.66	2	1
4:A:347:PX4:H53	4:A:351:PX4:H43	0.67	1.66	3	1
4:A:309:PX4:H22	4:A:328:PX4:H24	0.67	1.65	10	1
4:A:322:PX4:H69	4:A:369:PX4:H31	0.67	1.67	15	1
4:A:365:PX4:H47	4:A:383:PX4:H16	0.67	1.65	13	1
4:A:369:PX4:H18	4:A:429:PX4:H54	0.67	1.67	17	1
4:A:374:PX4:H64	4:A:381:PX4:H69	0.66	1.66	13	1
4:A:397:PX4:H16	4:A:411:PX4:H23	0.66	1.66	19	1
4:A:347:PX4:H22	4:A:351:PX4:H30	0.66	1.66	20	1
4:A:387:PX4:H31	4:A:416:PX4:H57	0.66	1.67	4	1
4:A:400:PX4:H20	4:A:401:PX4:H14	0.66	1.67	9	1
4:A:310:PX4:H50	4:A:333:PX4:H48	0.66	1.67	15	1
4:A:328:PX4:H51	4:A:347:PX4:H16	0.66	1.67	14	1
4:A:365:PX4:O3	4:A:369:PX4:H7	0.66	1.90	8	1
4:A:383:PX4:H21	4:A:396:PX4:H50	0.66	1.65	18	1
4:A:325:PX4:H45	4:A:325:PX4:H67	0.66	1.67	3	1
4:A:345:PX4:H49	4:A:358:PX4:H16	0.66	1.67	7	1
4:A:357:PX4:H26	4:A:363:PX4:H24	0.66	1.68	3	1
4:A:376:PX4:H14	4:A:390:PX4:H9	0.66	1.67	11	1
4:A:375:PX4:H21	4:A:392:PX4:H31	0.66	1.68	1	1
4:A:365:PX4:H27	4:A:369:PX4:H62	0.66	1.66	4	1
4:A:372:PX4:H17	4:A:420:PX4:H55	0.66	1.66	4	1
4:A:317:PX4:H36	4:A:326:PX4:H32	0.66	1.68	14	1
4:A:305:PX4:H38	4:A:310:PX4:H33	0.66	1.68	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:319:PX4:H21	4:A:352:PX4:H17	0.66	1.69	6	1
4:A:336:PX4:H17	4:A:354:PX4:H15	0.66	1.65	7	1
4:A:305:PX4:H67	4:A:426:PX4:H67	0.65	1.66	11	1
4:A:386:PX4:H28	4:A:401:PX4:H44	0.65	1.69	2	1
4:A:414:PX4:O6	4:A:426:PX4:H6	0.65	1.91	9	1
4:A:397:PX4:H48	4:A:423:PX4:H60	0.65	1.67	16	1
4:A:317:PX4:H40	4:A:326:PX4:H37	0.65	1.66	7	1
4:A:315:PX4:H53	4:A:332:PX4:H21	0.65	1.69	1	1
4:A:371:PX4:H14	4:A:373:PX4:H20	0.65	1.68	5	1
4:A:330:PX4:H69	4:A:415:PX4:H67	0.65	1.68	9	1
4:A:323:PX4:H18	4:A:328:PX4:H2	0.65	1.68	11	1
4:A:309:PX4:H19	4:A:328:PX4:H31	0.65	1.69	12	1
4:A:316:PX4:H64	4:A:389:PX4:H72	0.65	1.66	16	1
4:A:305:PX4:H36	4:A:310:PX4:H34	0.65	1.69	4	1
4:A:404:PX4:H33	4:A:418:PX4:H72	0.65	1.67	11	1
4:A:305:PX4:H50	4:A:312:PX4:H47	0.65	1.69	13	1
4:A:371:PX4:H68	4:A:399:PX4:H30	0.65	1.69	6	1
4:A:369:PX4:H25	4:A:430:PX4:H24	0.65	1.67	10	1
4:A:326:PX4:H60	4:A:353:PX4:H63	0.65	1.68	13	1
4:A:384:PX4:H50	4:A:389:PX4:H23	0.65	1.66	15	1
4:A:386:PX4:H47	4:A:417:PX4:H58	0.65	1.68	17	1
4:A:369:PX4:H18	4:A:429:PX4:H49	0.65	1.69	6	1
4:A:308:PX4:H32	4:A:332:PX4:H31	0.65	1.69	8	1
4:A:329:PX4:H51	4:A:355:PX4:H46	0.65	1.69	13	1
4:A:428:PX4:H52	4:A:430:PX4:H25	0.64	1.69	11	1
4:A:335:PX4:H53	4:A:363:PX4:H54	0.64	1.67	20	1
4:A:428:PX4:H24	4:A:429:PX4:H22	0.64	1.70	9	1
4:A:387:PX4:H71	4:A:403:PX4:H35	0.64	1.67	12	1
4:A:318:PX4:H28	4:A:357:PX4:H28	0.64	1.69	15	1
4:A:394:PX4:H38	4:A:400:PX4:H69	0.64	1.69	5	1
4:A:308:PX4:H20	4:A:326:PX4:H54	0.64	1.67	2	1
4:A:373:PX4:H18	4:A:406:PX4:H49	0.64	1.69	8	1
4:A:320:PX4:H64	4:A:340:PX4:H22	0.64	1.67	3	1
4:A:317:PX4:H30	4:A:325:PX4:H25	0.64	1.69	7	1
4:A:403:PX4:H47	4:A:421:PX4:H17	0.64	1.69	16	1
4:A:341:PX4:H64	4:A:352:PX4:H56	0.64	1.68	17	1
4:A:338:PX4:H16	4:A:344:PX4:H47	0.64	1.68	20	2
4:A:335:PX4:H46	4:A:354:PX4:H46	0.64	1.68	3	1
4:A:376:PX4:H50	4:A:376:PX4:H20	0.64	1.68	3	1
4:A:305:PX4:H45	4:A:311:PX4:H68	0.64	1.66	4	1
4:A:415:PX4:H32	4:A:421:PX4:H29	0.64	1.69	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:319:PX4:O2	4:A:336:PX4:H9	0.64	1.93	8	1
4:A:335:PX4:H64	4:A:347:PX4:H68	0.64	1.70	11	1
4:A:392:PX4:H14	4:A:392:PX4:H6	0.64	1.70	4	1
4:A:383:PX4:H38	4:A:419:PX4:H60	0.64	1.68	12	1
4:A:317:PX4:H50	4:A:325:PX4:H30	0.64	1.70	8	1
4:A:377:PX4:H29	4:A:377:PX4:H59	0.64	1.68	19	1
4:A:334:PX4:H64	5:A:432:C3S:H443	0.64	1.68	2	1
5:A:436:C3S:H402	5:A:436:C3S:H501	0.64	1.70	17	2
4:A:369:PX4:H42	4:A:430:PX4:H45	0.63	1.67	11	1
4:A:365:PX4:H50	4:A:407:PX4:H47	0.63	1.68	13	1
4:A:371:PX4:H59	4:A:389:PX4:C5	0.63	2.22	15	1
4:A:366:PX4:H16	4:A:378:PX4:H20	0.63	1.69	18	2
4:A:308:PX4:H69	4:A:355:PX4:H45	0.63	1.69	20	1
4:A:370:PX4:H16	4:A:394:PX4:H15	0.63	1.68	3	2
4:A:382:PX4:H54	4:A:404:PX4:H45	0.63	1.70	12	1
4:A:383:PX4:H25	4:A:383:PX4:H52	0.63	1.69	14	1
4:A:339:PX4:H61	4:A:357:PX4:H59	0.63	1.68	9	1
4:A:328:PX4:H17	4:A:347:PX4:H20	0.63	1.69	7	1
4:A:371:PX4:H19	4:A:402:PX4:H22	0.63	1.69	7	1
4:A:324:PX4:H42	4:A:346:PX4:H33	0.63	1.70	16	1
4:A:375:PX4:H70	4:A:405:PX4:H37	0.63	1.71	3	1
4:A:380:PX4:H16	4:A:385:PX4:H10	0.63	1.69	19	1
4:A:326:PX4:H66	4:A:326:PX4:H39	0.63	1.71	1	1
1:A:222:GLN:O	4:A:317:PX4:H1	0.63	1.94	12	3
4:A:376:PX4:H61	4:A:390:PX4:H30	0.63	1.70	8	1
4:A:336:PX4:H23	4:A:354:PX4:H27	0.63	1.70	9	1
4:A:373:PX4:H28	4:A:406:PX4:H52	0.63	1.71	14	1
4:A:371:PX4:H59	4:A:389:PX4:H13	0.63	1.68	15	1
4:A:308:PX4:H24	4:A:320:PX4:H50	0.63	1.71	16	1
4:A:312:PX4:H53	4:A:346:PX4:H61	0.63	1.69	16	1
4:A:321:PX4:H59	4:A:357:PX4:H40	0.63	1.71	17	1
4:A:338:PX4:H40	4:A:344:PX4:H28	0.63	1.70	2	1
4:A:375:PX4:O6	4:A:392:PX4:H6	0.63	1.93	5	1
4:A:388:PX4:H2	4:A:391:PX4:H15	0.63	1.71	8	1
4:A:318:PX4:H17	4:A:357:PX4:H27	0.62	1.71	1	1
4:A:389:PX4:H16	4:A:399:PX4:H53	0.62	1.70	1	1
1:A:107:ARG:HG3	4:A:315:PX4:H46	0.62	1.71	20	2
4:A:365:PX4:H62	4:A:407:PX4:H58	0.62	1.71	9	1
4:A:376:PX4:H25	4:A:396:PX4:H26	0.62	1.70	17	1
4:A:307:PX4:H57	4:A:348:PX4:H66	0.62	1.70	2	1
4:A:318:PX4:H26	4:A:342:PX4:H18	0.62	1.69	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:306:PX4:H53	4:A:342:PX4:H27	0.62	1.69	11	1
4:A:311:PX4:H52	4:A:313:PX4:H52	0.62	1.68	14	1
4:A:305:PX4:H24	4:A:311:PX4:H16	0.62	1.70	15	1
4:A:318:PX4:H59	4:A:336:PX4:H34	0.62	1.71	19	1
4:A:306:PX4:H16	4:A:358:PX4:H46	0.62	1.71	9	1
4:A:410:PX4:H18	4:A:410:PX4:H2	0.62	1.70	15	1
4:A:309:PX4:H32	4:A:347:PX4:H40	0.62	1.69	3	1
4:A:341:PX4:H10	4:A:356:PX4:O6	0.62	1.94	8	1
4:A:386:PX4:H31	4:A:417:PX4:H67	0.62	1.71	19	1
4:A:380:PX4:H16	4:A:385:PX4:H23	0.62	1.71	20	1
4:A:330:PX4:H62	4:A:337:PX4:H34	0.62	1.71	11	1
4:A:307:PX4:H69	4:A:430:PX4:H66	0.62	1.71	2	1
4:A:365:PX4:H46	4:A:376:PX4:H49	0.62	1.72	2	1
4:A:361:PX4:H58	4:A:378:PX4:H42	0.62	1.70	7	1
4:A:365:PX4:H22	4:A:370:PX4:H26	0.62	1.70	10	1
4:A:397:PX4:H16	4:A:411:PX4:H21	0.62	1.71	10	1
4:A:316:PX4:H52	4:A:352:PX4:H46	0.62	1.71	8	1
4:A:306:PX4:H59	4:A:359:PX4:H56	0.62	1.72	12	1
4:A:335:PX4:H46	4:A:354:PX4:H49	0.62	1.69	16	1
4:A:396:PX4:H27	4:A:407:PX4:H21	0.62	1.72	1	1
4:A:335:PX4:H17	4:A:347:PX4:H53	0.62	1.72	5	1
4:A:306:PX4:H57	4:A:359:PX4:H46	0.62	1.71	9	1
4:A:337:PX4:H20	4:A:355:PX4:H31	0.62	1.72	13	1
4:A:383:PX4:H59	4:A:394:PX4:H30	0.62	1.71	17	1
4:A:376:PX4:H24	4:A:376:PX4:H54	0.61	1.72	3	1
4:A:310:PX4:H72	4:A:364:PX4:H69	0.61	1.72	9	1
4:A:429:PX4:H54	4:A:430:PX4:H23	0.61	1.72	14	1
4:A:386:PX4:H44	4:A:417:PX4:H66	0.61	1.71	15	1
1:A:125:ARG:HH21	4:A:359:PX4:H14	0.61	1.55	19	1
4:A:325:PX4:H10	4:A:325:PX4:H14	0.61	1.71	5	1
4:A:308:PX4:H55	4:A:403:PX4:H39	0.61	1.70	6	1
4:A:389:PX4:O1	4:A:401:PX4:H13	0.61	1.93	20	1
4:A:410:PX4:H29	4:A:424:PX4:H27	0.61	1.70	1	1
4:A:320:PX4:H44	4:A:402:PX4:H66	0.61	1.72	18	1
4:A:366:PX4:H32	4:A:402:PX4:H30	0.61	1.72	7	1
4:A:369:PX4:H55	4:A:429:PX4:H21	0.61	1.72	11	1
4:A:371:PX4:H68	4:A:375:PX4:H65	0.61	1.72	11	1
4:A:368:PX4:H50	4:A:414:PX4:H29	0.61	1.72	13	1
4:A:413:PX4:H60	4:A:422:PX4:H64	0.61	1.73	4	1
4:A:308:PX4:H30	4:A:320:PX4:H58	0.61	1.71	5	1
4:A:317:PX4:H54	4:A:330:PX4:H33	0.61	1.73	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:312:PX4:H16	4:A:346:PX4:H47	0.61	1.71	10	1
4:A:400:PX4:H3	4:A:401:PX4:O1	0.61	1.96	14	1
4:A:331:PX4:H54	4:A:344:PX4:H34	0.61	1.72	20	1
4:A:368:PX4:H8	4:A:406:PX4:O6	0.61	1.96	1	1
4:A:343:PX4:H57	4:A:350:PX4:H17	0.61	1.70	10	3
4:A:394:PX4:H43	4:A:405:PX4:H33	0.61	1.71	3	1
4:A:394:PX4:H31	4:A:400:PX4:H20	0.61	1.73	6	1
4:A:396:PX4:H31	4:A:407:PX4:H27	0.61	1.73	16	1
4:A:319:PX4:H54	4:A:341:PX4:H55	0.61	1.72	3	1
4:A:351:PX4:H42	4:A:419:PX4:H69	0.61	1.72	13	1
4:A:360:PX4:H62	4:A:429:PX4:H36	0.61	1.72	16	1
4:A:338:PX4:H20	4:A:344:PX4:H53	0.61	1.72	17	1
4:A:376:PX4:H20	4:A:396:PX4:H49	0.61	1.71	17	1
4:A:382:PX4:H46	4:A:423:PX4:H56	0.61	1.71	4	1
4:A:324:PX4:H30	4:A:346:PX4:H60	0.61	1.71	6	1
4:A:340:PX4:H9	4:A:340:PX4:H16	0.61	1.71	6	1
4:A:358:PX4:H66	4:A:407:PX4:H42	0.61	1.72	13	1
4:A:395:PX4:H33	4:A:402:PX4:H60	0.60	1.73	3	1
4:A:401:PX4:H63	4:A:405:PX4:H36	0.60	1.72	4	1
4:A:372:PX4:O2	4:A:380:PX4:H20	0.60	1.96	12	1
4:A:327:PX4:H16	4:A:351:PX4:H4	0.60	1.73	14	1
4:A:315:PX4:H57	4:A:350:PX4:H21	0.60	1.73	1	1
4:A:388:PX4:H61	4:A:403:PX4:H65	0.60	1.73	5	1
4:A:414:PX4:H50	4:A:426:PX4:H21	0.60	1.71	12	1
4:A:321:PX4:H54	4:A:342:PX4:H35	0.60	1.74	15	1
4:A:370:PX4:H17	4:A:430:PX4:H46	0.60	1.71	18	1
4:A:319:PX4:H17	4:A:352:PX4:H50	0.60	1.73	19	1
4:A:384:PX4:H62	5:A:434:C3S:H601	0.60	1.71	14	1
4:A:376:PX4:H65	4:A:390:PX4:H51	0.60	1.72	19	1
4:A:426:PX4:H15	4:A:426:PX4:H13	0.60	1.72	5	1
4:A:401:PX4:H71	4:A:405:PX4:H29	0.60	1.73	7	1
4:A:403:PX4:H17	4:A:421:PX4:H51	0.60	1.73	7	1
4:A:340:PX4:H28	5:A:432:C3S:H262	0.60	1.73	9	1
4:A:322:PX4:H65	4:A:365:PX4:H40	0.60	1.72	10	1
4:A:404:PX4:H29	4:A:417:PX4:H24	0.60	1.73	15	1
4:A:387:PX4:H20	4:A:415:PX4:H22	0.60	1.73	1	1
4:A:399:PX4:H38	5:A:435:C3S:H693	0.60	1.73	6	1
4:A:309:PX4:H58	4:A:345:PX4:H41	0.60	1.74	9	1
4:A:404:PX4:H23	4:A:418:PX4:H27	0.60	1.73	9	1
4:A:321:PX4:H69	4:A:427:PX4:H33	0.60	1.72	11	1
4:A:413:PX4:H31	4:A:429:PX4:H32	0.60	1.72	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:308:PX4:H36	4:A:332:PX4:H27	0.60	1.73	8	1
4:A:306:PX4:H22	4:A:358:PX4:H47	0.60	1.73	5	2
4:A:403:PX4:H46	4:A:421:PX4:H17	0.60	1.74	7	1
4:A:322:PX4:H32	4:A:331:PX4:H25	0.60	1.73	4	1
4:A:306:PX4:H56	4:A:342:PX4:H29	0.60	1.73	9	1
4:A:365:PX4:C24	4:A:383:PX4:H23	0.60	2.27	17	1
4:A:411:PX4:H28	4:A:423:PX4:H58	0.60	1.71	20	1
4:A:305:PX4:H57	4:A:312:PX4:H59	0.60	1.74	5	2
4:A:369:PX4:H46	4:A:419:PX4:H17	0.60	1.72	3	1
4:A:370:PX4:H17	4:A:430:PX4:C26	0.60	2.27	8	1
4:A:320:PX4:H24	4:A:326:PX4:H60	0.59	1.74	4	1
4:A:346:PX4:H38	5:A:431:C3S:H691	0.59	1.74	17	1
4:A:316:PX4:H21	4:A:352:PX4:H25	0.59	1.74	7	1
4:A:375:PX4:H68	4:A:392:PX4:H29	0.59	1.74	8	1
4:A:395:PX4:H30	4:A:401:PX4:H40	0.59	1.75	9	1
4:A:348:PX4:H34	4:A:359:PX4:H54	0.59	1.74	10	1
4:A:384:PX4:H23	4:A:405:PX4:H20	0.59	1.72	11	1
4:A:333:PX4:H22	4:A:340:PX4:H52	0.59	1.72	13	1
4:A:406:PX4:H70	4:A:426:PX4:H54	0.59	1.73	9	1
4:A:322:PX4:H72	4:A:337:PX4:H59	0.59	1.73	13	1
4:A:387:PX4:H26	4:A:416:PX4:H19	0.59	1.75	15	1
4:A:316:PX4:H16	4:A:321:PX4:H11	0.59	1.71	17	1
4:A:369:PX4:H62	4:A:430:PX4:H42	0.59	1.74	2	1
4:A:370:PX4:H50	4:A:381:PX4:H17	0.59	1.72	10	1
4:A:422:PX4:H53	4:A:425:PX4:H53	0.59	1.73	14	1
4:A:313:PX4:H29	4:A:362:PX4:H56	0.59	1.73	16	1
4:A:386:PX4:H52	4:A:402:PX4:H22	0.59	1.74	18	1
4:A:411:PX4:H64	4:A:412:PX4:H71	0.59	1.73	18	1
4:A:308:PX4:H47	4:A:361:PX4:H63	0.59	1.73	20	1
4:A:404:PX4:H40	4:A:417:PX4:H39	0.59	1.74	7	1
4:A:412:PX4:H17	4:A:424:PX4:H54	0.59	1.74	8	1
4:A:404:PX4:H21	4:A:418:PX4:H17	0.59	1.74	17	1
4:A:391:PX4:H31	4:A:407:PX4:H31	0.59	1.75	4	1
4:A:327:PX4:H71	4:A:429:PX4:H37	0.59	1.74	8	1
4:A:368:PX4:H61	4:A:426:PX4:H58	0.59	1.75	9	1
4:A:362:PX4:H67	4:A:415:PX4:H67	0.59	1.74	14	1
4:A:415:PX4:H32	4:A:418:PX4:H66	0.59	1.74	14	1
4:A:405:PX4:H56	4:A:407:PX4:H23	0.59	1.73	1	1
4:A:342:PX4:H39	4:A:407:PX4:H37	0.59	1.74	2	1
4:A:336:PX4:H50	4:A:338:PX4:H28	0.59	1.74	3	1
4:A:306:PX4:H20	4:A:358:PX4:H47	0.59	1.73	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:310:PX4:H53	4:A:364:PX4:H55	0.59	1.75	15	1
4:A:371:PX4:H18	4:A:401:PX4:C17	0.59	2.28	17	1
4:A:371:PX4:H65	4:A:384:PX4:H19	0.59	1.73	19	1
4:A:369:PX4:H30	4:A:381:PX4:H67	0.59	1.74	2	1
4:A:397:PX4:H3	4:A:411:PX4:O6	0.59	1.98	4	1
4:A:305:PX4:H28	4:A:311:PX4:H30	0.59	1.72	5	1
4:A:387:PX4:H47	4:A:421:PX4:H16	0.59	1.72	8	1
4:A:324:PX4:H58	4:A:334:PX4:H55	0.59	1.74	10	1
4:A:404:PX4:O1	4:A:418:PX4:H3	0.59	1.98	16	1
4:A:338:PX4:H69	4:A:359:PX4:H32	0.59	1.74	3	1
4:A:312:PX4:H20	4:A:339:PX4:H22	0.59	1.75	1	1
4:A:366:PX4:H22	4:A:403:PX4:H20	0.59	1.74	7	1
4:A:369:PX4:H59	4:A:393:PX4:H29	0.59	1.74	7	1
4:A:351:PX4:H19	4:A:359:PX4:H32	0.59	1.75	16	1
4:A:382:PX4:H53	4:A:423:PX4:H39	0.58	1.75	1	1
4:A:339:PX4:H18	4:A:339:PX4:H2	0.58	1.74	7	1
4:A:321:PX4:H48	4:A:342:PX4:H35	0.58	1.73	16	1
4:A:400:PX4:H24	4:A:401:PX4:H17	0.58	1.74	8	2
4:A:325:PX4:H23	4:A:362:PX4:H55	0.58	1.74	9	1
4:A:307:PX4:H54	4:A:332:PX4:H30	0.58	1.73	13	1
4:A:386:PX4:H67	4:A:426:PX4:H64	0.58	1.73	18	1
4:A:339:PX4:H28	4:A:346:PX4:H67	0.58	1.76	4	1
4:A:359:PX4:H18	4:A:359:PX4:H6	0.58	1.74	7	1
4:A:315:PX4:H43	4:A:381:PX4:H70	0.58	1.76	8	1
4:A:341:PX4:H45	4:A:367:PX4:H35	0.58	1.73	11	1
4:A:334:PX4:H39	4:A:426:PX4:H25	0.58	1.75	3	1
4:A:409:PX4:H5	4:A:412:PX4:O6	0.58	1.98	5	1
4:A:366:PX4:H37	4:A:378:PX4:H61	0.58	1.75	7	1
4:A:370:PX4:H30	4:A:430:PX4:H60	0.58	1.75	11	1
4:A:387:PX4:H17	4:A:421:PX4:H20	0.58	1.74	2	2
4:A:354:PX4:H66	4:A:416:PX4:H70	0.58	1.73	5	1
4:A:380:PX4:H33	4:A:385:PX4:H35	0.58	1.75	8	1
4:A:329:PX4:H34	4:A:360:PX4:H33	0.58	1.75	14	1
4:A:328:PX4:H49	4:A:347:PX4:H16	0.58	1.73	5	1
4:A:399:PX4:H22	4:A:424:PX4:H24	0.58	1.75	5	1
4:A:422:PX4:H36	4:A:425:PX4:H61	0.58	1.74	5	1
4:A:314:PX4:H15	4:A:314:PX4:H13	0.58	1.76	7	1
4:A:372:PX4:H17	4:A:380:PX4:H27	0.58	1.75	7	1
4:A:396:PX4:O6	4:A:407:PX4:H9	0.58	1.97	12	1
4:A:313:PX4:H17	4:A:355:PX4:H50	0.58	1.75	20	1
4:A:325:PX4:H17	4:A:353:PX4:H20	0.58	1.74	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:327:PX4:H22	4:A:338:PX4:H58	0.58	1.75	2	1
4:A:392:PX4:H48	4:A:427:PX4:H47	0.58	1.75	7	1
4:A:338:PX4:O1	4:A:344:PX4:H3	0.58	1.98	9	1
4:A:308:PX4:H42	4:A:350:PX4:H26	0.58	1.76	14	1
4:A:385:PX4:H68	4:A:415:PX4:H35	0.58	1.76	14	1
4:A:409:PX4:H33	5:A:434:C3S:H403	0.58	1.75	17	1
4:A:307:PX4:H33	4:A:337:PX4:H71	0.58	1.74	20	1
4:A:406:PX4:H32	4:A:410:PX4:H61	0.58	1.76	1	1
4:A:324:PX4:O1	4:A:334:PX4:H6	0.58	1.99	16	1
4:A:387:PX4:H26	4:A:416:PX4:H17	0.58	1.75	18	1
4:A:327:PX4:H4	4:A:348:PX4:H18	0.58	1.75	19	1
4:A:375:PX4:H64	4:A:405:PX4:H66	0.58	1.76	3	1
4:A:409:PX4:H66	4:A:412:PX4:H65	0.58	1.75	8	1
4:A:367:PX4:H60	4:A:412:PX4:H52	0.58	1.76	16	1
4:A:305:PX4:H32	4:A:310:PX4:H34	0.58	1.76	18	1
4:A:316:PX4:H30	4:A:318:PX4:H47	0.58	1.74	20	1
4:A:324:PX4:H55	4:A:334:PX4:H51	0.58	1.76	4	1
4:A:337:PX4:H68	4:A:397:PX4:H43	0.58	1.76	13	1
4:A:347:PX4:H21	4:A:360:PX4:H22	0.57	1.76	5	1
4:A:365:PX4:H24	4:A:396:PX4:H49	0.57	1.76	9	1
4:A:314:PX4:H57	4:A:354:PX4:H38	0.57	1.74	13	1
4:A:323:PX4:H46	4:A:325:PX4:C6	0.57	2.29	5	1
4:A:377:PX4:H48	4:A:420:PX4:H46	0.57	1.74	5	1
4:A:375:PX4:H32	4:A:427:PX4:H27	0.57	1.76	6	1
4:A:328:PX4:H43	4:A:338:PX4:H62	0.57	1.75	12	1
4:A:316:PX4:H57	4:A:319:PX4:H45	0.57	1.73	3	1
4:A:323:PX4:H14	4:A:353:PX4:O7	0.57	1.99	7	1
4:A:319:PX4:H47	4:A:341:PX4:H65	0.57	1.75	18	1
4:A:327:PX4:H27	4:A:348:PX4:H51	0.57	1.76	18	1
4:A:423:PX4:H68	4:A:430:PX4:H36	0.57	1.76	18	1
4:A:373:PX4:H28	4:A:401:PX4:H37	0.57	1.77	5	1
4:A:310:PX4:H21	4:A:311:PX4:H17	0.57	1.76	19	1
4:A:365:PX4:H15	4:A:383:PX4:H19	0.57	1.77	4	1
4:A:364:PX4:H45	4:A:372:PX4:H44	0.57	1.75	6	1
1:A:125:ARG:CZ	4:A:306:PX4:H53	0.57	2.30	8	1
4:A:373:PX4:H47	4:A:406:PX4:H17	0.57	1.75	11	1
4:A:371:PX4:H47	4:A:373:PX4:H23	0.57	1.77	14	1
4:A:377:PX4:H55	4:A:377:PX4:H25	0.57	1.76	19	1
4:A:353:PX4:H29	4:A:355:PX4:H67	0.57	1.76	20	1
4:A:365:PX4:H53	4:A:383:PX4:H34	0.57	1.76	7	1
4:A:420:PX4:H27	4:A:422:PX4:H49	0.57	1.75	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:327:PX4:H30	4:A:348:PX4:H51	0.57	1.74	11	1
4:A:373:PX4:H17	4:A:406:PX4:H49	0.57	1.76	13	1
4:A:343:PX4:H28	4:A:352:PX4:H52	0.57	1.75	2	1
4:A:316:PX4:H49	4:A:321:PX4:H24	0.57	1.75	12	1
4:A:310:PX4:H44	4:A:364:PX4:H65	0.57	1.75	13	1
4:A:338:PX4:H28	4:A:344:PX4:H25	0.57	1.75	16	1
4:A:312:PX4:H47	4:A:324:PX4:H16	0.57	1.77	20	3
4:A:353:PX4:H19	4:A:361:PX4:H54	0.57	1.77	4	1
4:A:316:PX4:O1	4:A:352:PX4:H14	0.57	2.00	8	1
4:A:375:PX4:H15	4:A:405:PX4:O3	0.57	2.00	8	1
4:A:375:PX4:H59	4:A:399:PX4:H67	0.57	1.75	12	1
4:A:322:PX4:H69	4:A:327:PX4:H44	0.57	1.76	13	1
4:A:375:PX4:H22	4:A:405:PX4:H47	0.57	1.77	15	1
4:A:370:PX4:H66	4:A:381:PX4:H64	0.57	1.75	3	1
4:A:394:PX4:H33	4:A:400:PX4:H65	0.57	1.77	5	1
4:A:316:PX4:H64	4:A:350:PX4:H66	0.57	1.76	6	1
1:A:2:GLN:HE22	1:A:57:ARG:CZ	0.57	2.12	8	1
4:A:409:PX4:H51	4:A:428:PX4:H28	0.57	1.76	8	1
4:A:320:PX4:H52	4:A:334:PX4:H28	0.57	1.75	10	1
4:A:306:PX4:H56	4:A:321:PX4:H17	0.57	1.75	15	1
4:A:316:PX4:H21	4:A:321:PX4:H22	0.57	1.75	16	1
4:A:414:PX4:H25	5:A:432:C3S:H693	0.57	1.77	6	1
4:A:414:PX4:H55	4:A:426:PX4:H63	0.57	1.76	7	1
4:A:324:PX4:H71	4:A:408:PX4:H71	0.57	1.76	9	1
4:A:395:PX4:H32	4:A:402:PX4:H56	0.56	1.76	1	1
4:A:380:PX4:H38	4:A:420:PX4:H66	0.56	1.76	7	1
4:A:389:PX4:H59	4:A:401:PX4:H36	0.56	1.77	7	1
4:A:422:PX4:H13	4:A:425:PX4:O8	0.56	2.00	10	1
1:A:88:VAL:HG11	4:A:306:PX4:H46	0.56	1.75	13	1
4:A:379:PX4:H20	4:A:422:PX4:H46	0.56	1.77	15	1
4:A:331:PX4:H23	4:A:337:PX4:H25	0.56	1.77	16	1
4:A:396:PX4:H53	4:A:407:PX4:H58	0.56	1.76	20	1
4:A:343:PX4:H69	4:A:350:PX4:H29	0.56	1.77	1	1
4:A:318:PX4:H21	4:A:357:PX4:H38	0.56	1.76	2	1
4:A:412:PX4:H61	4:A:424:PX4:H58	0.56	1.77	11	1
4:A:397:PX4:H53	4:A:423:PX4:H60	0.56	1.77	13	1
4:A:331:PX4:H62	4:A:354:PX4:H28	0.56	1.77	18	1
4:A:409:PX4:H48	4:A:412:PX4:H19	0.56	1.77	8	1
4:A:387:PX4:H38	4:A:421:PX4:H44	0.56	1.77	9	1
4:A:313:PX4:H12	4:A:313:PX4:H14	0.56	1.76	11	1
4:A:411:PX4:H49	4:A:412:PX4:H51	0.56	1.77	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:369:PX4:O4	4:A:419:PX4:H5	0.56	2.01	13	1
4:A:370:PX4:H60	4:A:370:PX4:H33	0.56	1.77	13	1
4:A:336:PX4:H17	4:A:354:PX4:H50	0.56	1.76	17	1
4:A:315:PX4:H49	4:A:332:PX4:H21	0.56	1.76	1	1
4:A:368:PX4:H22	5:A:436:C3S:H571	0.56	1.78	1	1
4:A:331:PX4:O2	4:A:337:PX4:H3	0.56	2.00	7	1
4:A:409:PX4:H17	4:A:412:PX4:H22	0.56	1.77	8	1
4:A:392:PX4:H17	4:A:425:PX4:H20	0.56	1.76	10	1
4:A:327:PX4:H19	4:A:348:PX4:H29	0.56	1.77	16	1
4:A:387:PX4:H59	4:A:421:PX4:H55	0.56	1.76	16	1
4:A:371:PX4:H68	4:A:373:PX4:H59	0.56	1.77	20	1
4:A:345:PX4:H63	4:A:359:PX4:H50	0.56	1.77	4	1
4:A:384:PX4:H18	4:A:384:PX4:O3	0.56	2.01	6	1
4:A:400:PX4:H27	4:A:401:PX4:H17	0.56	1.77	10	1
4:A:338:PX4:H24	4:A:344:PX4:H21	0.56	1.77	13	1
4:A:340:PX4:H25	4:A:356:PX4:H64	0.56	1.77	3	1
4:A:352:PX4:H34	4:A:407:PX4:H35	0.56	1.76	8	1
4:A:381:PX4:H29	4:A:418:PX4:H37	0.56	1.75	9	1
4:A:372:PX4:H36	4:A:406:PX4:H33	0.56	1.77	13	1
4:A:306:PX4:H17	4:A:342:PX4:H19	0.56	1.77	6	1
4:A:409:PX4:H11	5:A:434:C3S:H92	0.56	1.78	7	1
4:A:315:PX4:H42	4:A:374:PX4:H64	0.56	1.77	15	1
4:A:380:PX4:H17	4:A:420:PX4:O2	0.56	2.00	15	1
4:A:318:PX4:H20	4:A:342:PX4:H52	0.56	1.78	16	1
4:A:415:PX4:H22	4:A:415:PX4:H51	0.56	1.76	16	1
4:A:351:PX4:H28	4:A:359:PX4:H19	0.56	1.77	19	1
4:A:396:PX4:H3	4:A:407:PX4:O1	0.56	2.01	19	1
4:A:409:PX4:H32	4:A:412:PX4:H33	0.56	1.78	4	1
1:A:23:TYR:CE1	1:A:72:VAL:HG21	0.56	2.36	10	1
4:A:406:PX4:H49	4:A:414:PX4:H26	0.56	1.77	14	1
4:A:343:PX4:H41	4:A:425:PX4:H70	0.56	1.78	5	1
4:A:338:PX4:H32	4:A:344:PX4:H23	0.56	1.76	12	1
4:A:392:PX4:H50	4:A:425:PX4:H53	0.56	1.78	17	1
4:A:376:PX4:H19	4:A:396:PX4:H25	0.56	1.76	18	1
4:A:318:PX4:H31	4:A:342:PX4:H65	0.56	1.76	19	1
4:A:322:PX4:H11	4:A:344:PX4:O1	0.56	2.01	7	1
4:A:397:PX4:H21	4:A:411:PX4:O5	0.56	2.00	11	1
4:A:366:PX4:H12	4:A:403:PX4:O2	0.56	2.01	12	1
4:A:305:PX4:H28	4:A:310:PX4:H56	0.56	1.78	14	1
4:A:316:PX4:H25	4:A:321:PX4:H32	0.56	1.76	14	1
4:A:315:PX4:H26	4:A:332:PX4:H24	0.56	1.78	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:354:PX4:H37	4:A:409:PX4:H42	0.56	1.77	18	1
4:A:330:PX4:H33	4:A:337:PX4:H47	0.55	1.77	5	1
4:A:333:PX4:H14	5:A:432:C3S:H30	0.55	1.76	17	1
4:A:400:PX4:H47	4:A:405:PX4:H16	0.55	1.78	5	2
4:A:348:PX4:H38	4:A:359:PX4:H58	0.55	1.79	7	1
4:A:377:PX4:H25	4:A:377:PX4:H58	0.55	1.77	13	1
4:A:318:PX4:H70	4:A:389:PX4:H40	0.55	1.78	14	1
4:A:388:PX4:H15	4:A:388:PX4:H13	0.55	1.77	14	1
4:A:403:PX4:O2	4:A:421:PX4:H10	0.55	2.00	15	1
4:A:311:PX4:O8	4:A:329:PX4:H10	0.55	2.01	16	1
4:A:386:PX4:H23	4:A:402:PX4:H48	0.55	1.76	18	1
4:A:406:PX4:O1	4:A:410:PX4:H15	0.55	2.01	19	1
4:A:417:PX4:H20	4:A:418:PX4:H22	0.55	1.77	20	1
4:A:306:PX4:H36	4:A:345:PX4:H64	0.55	1.77	12	1
4:A:394:PX4:H56	4:A:395:PX4:H59	0.55	1.78	14	1
4:A:403:PX4:H46	4:A:421:PX4:H49	0.55	1.78	15	1
4:A:312:PX4:H27	4:A:345:PX4:H30	0.55	1.76	17	1
4:A:322:PX4:H33	4:A:344:PX4:H34	0.55	1.76	18	1
4:A:400:PX4:O2	4:A:405:PX4:H14	0.55	2.02	20	1
4:A:343:PX4:H40	4:A:410:PX4:H45	0.55	1.77	3	1
4:A:378:PX4:H21	4:A:403:PX4:H20	0.55	1.78	3	1
4:A:393:PX4:H18	4:A:419:PX4:H16	0.55	1.78	5	1
4:A:365:PX4:H65	4:A:396:PX4:H61	0.55	1.77	7	1
4:A:382:PX4:H51	4:A:423:PX4:H20	0.55	1.78	9	1
4:A:403:PX4:H21	4:A:421:PX4:H51	0.55	1.78	10	1
4:A:413:PX4:H27	4:A:428:PX4:H41	0.55	1.77	15	1
4:A:361:PX4:H62	5:A:431:C3S:H42	0.55	1.79	18	1
4:A:383:PX4:H52	4:A:396:PX4:H50	0.55	1.77	19	1
4:A:371:PX4:H60	4:A:406:PX4:H61	0.55	1.77	20	1
4:A:317:PX4:H29	4:A:326:PX4:H50	0.55	1.77	3	1
4:A:343:PX4:H54	4:A:350:PX4:H49	0.55	1.78	3	1
4:A:403:PX4:H36	4:A:417:PX4:H34	0.55	1.78	9	1
4:A:366:PX4:H68	4:A:404:PX4:H41	0.55	1.76	13	1
4:A:383:PX4:H21	4:A:430:PX4:H57	0.55	1.79	13	1
4:A:327:PX4:O1	4:A:348:PX4:H16	0.55	2.01	14	1
4:A:306:PX4:H48	4:A:342:PX4:H21	0.55	1.78	19	1
4:A:315:PX4:H53	4:A:332:PX4:C11	0.55	2.30	1	1
4:A:389:PX4:H32	4:A:399:PX4:H59	0.55	1.79	1	1
4:A:382:PX4:H51	4:A:423:PX4:H52	0.55	1.77	2	1
4:A:344:PX4:H66	4:A:419:PX4:H41	0.55	1.77	4	1
4:A:366:PX4:H64	4:A:403:PX4:H40	0.55	1.78	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:305:PX4:H62	4:A:363:PX4:H55	0.55	1.77	16	1
4:A:319:PX4:H10	4:A:319:PX4:H14	0.55	1.79	4	1
4:A:307:PX4:H19	4:A:327:PX4:H44	0.55	1.78	5	1
4:A:388:PX4:H31	4:A:388:PX4:H51	0.55	1.78	7	1
4:A:319:PX4:H64	4:A:384:PX4:H68	0.55	1.79	8	1
4:A:351:PX4:H50	4:A:359:PX4:H32	0.55	1.77	9	1
4:A:385:PX4:H17	5:A:433:C3S:H443	0.55	1.78	10	1
4:A:330:PX4:H51	4:A:337:PX4:H29	0.55	1.77	20	1
4:A:382:PX4:H54	4:A:423:PX4:H49	0.55	1.76	5	1
4:A:338:PX4:H56	4:A:344:PX4:H61	0.55	1.77	11	1
4:A:415:PX4:H61	4:A:418:PX4:H69	0.55	1.78	12	1
4:A:313:PX4:H45	4:A:355:PX4:H49	0.55	1.79	15	1
4:A:363:PX4:H10	4:A:363:PX4:H20	0.55	1.79	1	1
4:A:378:PX4:H34	4:A:408:PX4:H70	0.55	1.79	1	1
4:A:332:PX4:H46	4:A:348:PX4:H5	0.55	1.77	4	1
4:A:319:PX4:H63	4:A:352:PX4:H55	0.55	1.79	6	1
4:A:353:PX4:H47	4:A:361:PX4:H24	0.55	1.79	6	1
4:A:317:PX4:H47	4:A:330:PX4:H28	0.55	1.79	7	1
1:A:115:MET:HB2	4:A:315:PX4:H4	0.55	1.78	15	1
4:A:420:PX4:H36	4:A:422:PX4:H26	0.55	1.78	15	1
4:A:365:PX4:H47	4:A:383:PX4:H23	0.55	1.78	17	1
4:A:398:PX4:H67	4:A:404:PX4:H58	0.55	1.77	3	1
4:A:336:PX4:H71	4:A:409:PX4:H31	0.55	1.79	5	1
4:A:330:PX4:H17	4:A:355:PX4:H24	0.55	1.78	6	1
4:A:383:PX4:H53	4:A:407:PX4:H54	0.55	1.79	14	1
4:A:333:PX4:H25	4:A:364:PX4:H36	0.55	1.79	15	1
4:A:375:PX4:H55	4:A:384:PX4:H18	0.55	1.79	17	1
4:A:369:PX4:H48	4:A:419:PX4:H51	0.55	1.79	20	1
4:A:376:PX4:H12	4:A:390:PX4:O6	0.54	2.02	3	1
4:A:389:PX4:H64	4:A:399:PX4:H39	0.54	1.78	15	1
4:A:320:PX4:H51	4:A:334:PX4:H17	0.54	1.78	16	1
4:A:365:PX4:H48	4:A:419:PX4:H52	0.54	1.79	20	1
4:A:383:PX4:H55	4:A:394:PX4:H48	0.54	1.78	2	1
4:A:351:PX4:H50	4:A:359:PX4:H42	0.54	1.78	5	1
4:A:312:PX4:H24	4:A:324:PX4:H16	0.54	1.78	6	1
4:A:415:PX4:H24	5:A:433:C3S:H442	0.54	1.78	15	1
4:A:315:PX4:H40	4:A:350:PX4:H30	0.54	1.77	16	1
4:A:391:PX4:H36	4:A:408:PX4:H60	0.54	1.79	19	1
4:A:397:PX4:H24	4:A:411:PX4:H49	0.54	1.78	20	1
4:A:307:PX4:H16	4:A:337:PX4:H54	0.54	1.79	1	1
4:A:310:PX4:H70	4:A:424:PX4:H42	0.54	1.79	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:365:PX4:H58	4:A:370:PX4:H40	0.54	1.79	11	1
4:A:319:PX4:H50	4:A:356:PX4:H14	0.54	1.79	15	1
4:A:404:PX4:H35	4:A:404:PX4:H67	0.54	1.78	18	1
4:A:364:PX4:H65	4:A:364:PX4:H39	0.54	1.77	19	1
4:A:392:PX4:H57	4:A:425:PX4:H26	0.54	1.79	19	1
4:A:325:PX4:H24	4:A:355:PX4:H22	0.54	1.78	8	1
4:A:308:PX4:H69	4:A:371:PX4:H43	0.54	1.80	11	1
4:A:336:PX4:H55	4:A:344:PX4:H43	0.54	1.78	11	1
4:A:367:PX4:H21	4:A:367:PX4:H48	0.54	1.78	17	1
4:A:380:PX4:H56	4:A:380:PX4:H29	0.54	1.80	18	1
4:A:409:PX4:H49	4:A:428:PX4:H21	0.54	1.79	18	1
4:A:305:PX4:H39	4:A:333:PX4:H61	0.54	1.79	6	1
4:A:346:PX4:H40	4:A:361:PX4:H65	0.54	1.78	10	1
4:A:376:PX4:H20	4:A:383:PX4:H24	0.54	1.79	11	1
4:A:388:PX4:H60	4:A:391:PX4:H17	0.54	1.79	12	1
4:A:310:PX4:H11	4:A:333:PX4:H50	0.54	1.78	16	1
4:A:316:PX4:H65	4:A:343:PX4:H52	0.54	1.79	17	1
4:A:308:PX4:H16	4:A:320:PX4:H16	0.54	1.78	14	2
4:A:335:PX4:H62	4:A:347:PX4:H67	0.54	1.79	2	1
4:A:418:PX4:H31	4:A:423:PX4:H30	0.54	1.79	10	1
4:A:312:PX4:H3	4:A:346:PX4:O3	0.54	2.02	2	1
4:A:331:PX4:H43	4:A:398:PX4:H39	0.54	1.79	7	1
4:A:371:PX4:H24	4:A:402:PX4:H63	0.54	1.79	12	1
4:A:386:PX4:H55	4:A:417:PX4:H17	0.54	1.80	12	1
4:A:397:PX4:H16	4:A:429:PX4:H12	0.54	1.79	14	1
4:A:317:PX4:H40	4:A:361:PX4:H34	0.54	1.79	15	1
4:A:415:PX4:H45	4:A:416:PX4:H8	0.54	1.79	20	1
4:A:310:PX4:O6	4:A:313:PX4:H5	0.54	2.02	2	1
4:A:328:PX4:H44	4:A:353:PX4:H66	0.54	1.78	3	1
4:A:368:PX4:H69	4:A:426:PX4:H66	0.54	1.80	9	1
4:A:395:PX4:O2	4:A:402:PX4:H12	0.54	2.03	9	1
4:A:323:PX4:H63	4:A:328:PX4:H58	0.54	1.80	11	1
4:A:347:PX4:H52	4:A:351:PX4:H50	0.54	1.78	12	1
4:A:392:PX4:H69	4:A:425:PX4:H71	0.54	1.80	15	1
4:A:340:PX4:H35	4:A:389:PX4:H67	0.54	1.79	17	1
4:A:378:PX4:H65	4:A:414:PX4:H46	0.54	1.78	1	1
4:A:400:PX4:H30	4:A:401:PX4:H57	0.54	1.79	3	1
4:A:385:PX4:H50	4:A:415:PX4:H16	0.54	1.78	5	1
4:A:428:PX4:H49	4:A:430:PX4:H30	0.54	1.80	5	1
4:A:372:PX4:H34	4:A:406:PX4:H34	0.54	1.78	6	1
4:A:312:PX4:O1	4:A:324:PX4:H2	0.54	2.02	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:374:PX4:O7	4:A:397:PX4:H47	0.54	2.02	7	1
1:A:103:ILE:HD13	4:A:350:PX4:H46	0.54	1.78	11	1
4:A:332:PX4:H18	4:A:348:PX4:H57	0.54	1.78	16	1
4:A:375:PX4:H60	4:A:405:PX4:H63	0.54	1.80	3	1
4:A:365:PX4:H33	4:A:419:PX4:H63	0.54	1.80	7	1
4:A:310:PX4:H49	4:A:364:PX4:H61	0.54	1.80	8	1
4:A:426:PX4:H72	5:A:432:C3S:H352	0.54	1.80	16	1
4:A:305:PX4:H58	4:A:324:PX4:H64	0.54	1.80	20	1
4:A:316:PX4:H11	4:A:318:PX4:O8	0.53	2.03	3	1
4:A:376:PX4:H19	4:A:396:PX4:H17	0.53	1.79	15	1
4:A:385:PX4:H41	5:A:433:C3S:H602	0.53	1.78	15	1
1:A:131:THR:O	4:A:321:PX4:H11	0.53	2.03	5	1
4:A:317:PX4:H25	4:A:326:PX4:H16	0.53	1.80	7	1
4:A:310:PX4:H52	4:A:333:PX4:H59	0.53	1.79	9	1
4:A:322:PX4:H19	4:A:331:PX4:H26	0.53	1.80	12	1
4:A:308:PX4:H38	4:A:350:PX4:H50	0.53	1.80	16	1
4:A:308:PX4:H23	4:A:320:PX4:H25	0.53	1.81	3	1
4:A:323:PX4:H48	4:A:361:PX4:H28	0.53	1.81	5	1
4:A:323:PX4:H34	4:A:345:PX4:H37	0.53	1.80	9	1
4:A:428:PX4:H22	4:A:429:PX4:H17	0.53	1.81	10	1
4:A:333:PX4:H50	4:A:364:PX4:H46	0.53	1.78	12	1
4:A:375:PX4:H28	4:A:427:PX4:H21	0.53	1.79	13	1
4:A:341:PX4:H19	4:A:356:PX4:H25	0.53	1.79	14	1
4:A:378:PX4:H61	4:A:386:PX4:H61	0.53	1.79	3	1
4:A:359:PX4:H71	4:A:376:PX4:H26	0.53	1.79	5	1
4:A:385:PX4:H1	4:A:385:PX4:H18	0.53	1.81	7	1
4:A:381:PX4:H21	4:A:394:PX4:H51	0.53	1.81	10	1
4:A:384:PX4:O6	4:A:401:PX4:H13	0.53	2.02	12	1
4:A:316:PX4:H52	4:A:343:PX4:H47	0.53	1.80	13	1
4:A:379:PX4:H11	5:A:434:C3S:O2	0.53	2.03	14	1
4:A:397:PX4:H10	4:A:411:PX4:O6	0.53	2.03	16	1
4:A:330:PX4:H60	4:A:331:PX4:H23	0.53	1.80	17	1
4:A:362:PX4:H41	4:A:364:PX4:H61	0.53	1.80	18	1
4:A:374:PX4:H50	4:A:430:PX4:H51	0.53	1.79	18	1
4:A:323:PX4:H20	4:A:353:PX4:H53	0.53	1.81	20	1
4:A:314:PX4:H40	4:A:352:PX4:H38	0.53	1.80	4	1
4:A:330:PX4:O8	4:A:331:PX4:H3	0.53	2.04	4	1
4:A:370:PX4:H55	4:A:394:PX4:H52	0.53	1.81	9	1
4:A:428:PX4:O6	4:A:428:PX4:H13	0.53	2.04	9	1
4:A:376:PX4:H27	4:A:396:PX4:H26	0.53	1.79	13	1
4:A:370:PX4:H28	4:A:383:PX4:H26	0.53	1.79	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:314:PX4:H56	4:A:336:PX4:H35	0.53	1.79	20	1
4:A:371:PX4:H62	4:A:389:PX4:H26	0.53	1.79	2	1
4:A:386:PX4:H52	4:A:426:PX4:H50	0.53	1.80	2	1
4:A:327:PX4:H64	4:A:344:PX4:H53	0.53	1.80	3	1
4:A:325:PX4:H36	4:A:355:PX4:H32	0.53	1.79	15	1
4:A:358:PX4:H57	4:A:358:PX4:H24	0.53	1.81	2	1
4:A:367:PX4:H57	5:A:434:C3S:H12	0.53	1.80	5	1
4:A:320:PX4:H52	4:A:334:PX4:H59	0.53	1.80	6	1
4:A:334:PX4:H24	4:A:334:PX4:H57	0.53	1.79	16	1
4:A:333:PX4:H16	5:A:432:C3S:H231	0.53	1.80	19	1
4:A:318:PX4:H19	4:A:342:PX4:H42	0.53	1.80	1	1
4:A:358:PX4:H49	4:A:359:PX4:H47	0.53	1.80	1	1
4:A:395:PX4:H16	4:A:402:PX4:H47	0.53	1.80	3	1
4:A:403:PX4:H51	4:A:421:PX4:H17	0.53	1.81	5	1
4:A:393:PX4:H32	4:A:416:PX4:H34	0.53	1.80	11	1
4:A:395:PX4:H32	4:A:402:PX4:H69	0.53	1.81	12	1
4:A:357:PX4:H17	4:A:363:PX4:H22	0.53	1.80	6	1
4:A:410:PX4:H16	5:A:435:C3S:H441	0.53	1.81	11	1
4:A:415:PX4:H57	4:A:418:PX4:H51	0.53	1.81	13	1
4:A:401:PX4:H63	4:A:405:PX4:H29	0.53	1.81	4	1
4:A:411:PX4:H17	4:A:412:PX4:H48	0.53	1.81	5	1
4:A:313:PX4:H50	4:A:329:PX4:H26	0.53	1.80	7	1
4:A:327:PX4:H45	4:A:383:PX4:H64	0.53	1.79	8	1
4:A:396:PX4:H20	4:A:407:PX4:H49	0.53	1.81	11	2
4:A:373:PX4:H55	4:A:399:PX4:H19	0.53	1.79	12	1
4:A:325:PX4:O6	4:A:330:PX4:H7	0.53	2.05	13	2
4:A:350:PX4:H57	4:A:402:PX4:H43	0.53	1.79	14	1
4:A:362:PX4:H39	4:A:367:PX4:H41	0.53	1.81	19	1
4:A:391:PX4:H20	4:A:427:PX4:H16	0.52	1.80	10	1
4:A:346:PX4:H20	4:A:358:PX4:H25	0.52	1.78	12	1
4:A:366:PX4:H27	4:A:386:PX4:H58	0.52	1.80	12	1
4:A:320:PX4:H55	4:A:334:PX4:H50	0.52	1.79	13	1
4:A:365:PX4:H17	4:A:369:PX4:H9	0.52	1.79	13	1
4:A:375:PX4:H17	4:A:405:PX4:H13	0.52	1.80	18	1
4:A:370:PX4:H4	4:A:430:PX4:H15	0.52	1.82	19	1
4:A:323:PX4:H67	4:A:329:PX4:H65	0.52	1.80	20	1
4:A:404:PX4:H39	4:A:417:PX4:H29	0.52	1.81	8	1
4:A:380:PX4:H19	4:A:420:PX4:H22	0.52	1.81	10	1
4:A:369:PX4:H47	4:A:419:PX4:H17	0.52	1.80	13	1
4:A:393:PX4:H67	4:A:421:PX4:H45	0.52	1.81	13	1
4:A:305:PX4:H48	4:A:311:PX4:H31	0.52	1.79	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:392:PX4:H38	4:A:407:PX4:H30	0.52	1.81	19	1
4:A:397:PX4:H24	4:A:428:PX4:H46	0.52	1.81	3	1
4:A:381:PX4:H25	4:A:395:PX4:H23	0.52	1.81	4	1
4:A:321:PX4:H41	4:A:399:PX4:H57	0.52	1.82	9	1
4:A:333:PX4:H30	4:A:333:PX4:H60	0.52	1.79	12	1
4:A:404:PX4:H55	4:A:415:PX4:H49	0.52	1.80	12	1
4:A:343:PX4:H60	4:A:350:PX4:H48	0.52	1.80	17	1
4:A:321:PX4:H17	4:A:342:PX4:H27	0.52	1.80	1	1
4:A:399:PX4:O6	4:A:424:PX4:H3	0.52	2.04	4	1
4:A:325:PX4:H50	4:A:361:PX4:H23	0.52	1.82	6	1
4:A:400:PX4:H50	4:A:405:PX4:H16	0.52	1.81	6	1
4:A:330:PX4:H19	4:A:337:PX4:H16	0.52	1.79	11	1
4:A:376:PX4:H32	4:A:396:PX4:H30	0.52	1.82	13	1
4:A:337:PX4:H71	4:A:381:PX4:H62	0.52	1.80	17	1
4:A:391:PX4:H10	4:A:427:PX4:H1	0.52	1.80	19	1
4:A:320:PX4:H33	4:A:361:PX4:H65	0.52	1.80	20	1
4:A:385:PX4:H22	5:A:433:C3S:H403	0.52	1.80	1	1
4:A:323:PX4:H62	4:A:328:PX4:H48	0.52	1.80	2	1
4:A:351:PX4:H23	4:A:359:PX4:H38	0.52	1.81	4	1
4:A:314:PX4:H61	4:A:336:PX4:H35	0.52	1.80	16	1
4:A:428:PX4:H14	4:A:429:PX4:H51	0.52	1.80	17	1
4:A:413:PX4:H24	4:A:419:PX4:H26	0.52	1.82	18	1
4:A:383:PX4:H37	4:A:388:PX4:H42	0.52	1.79	19	1
4:A:326:PX4:H70	4:A:353:PX4:H50	0.52	1.81	6	1
4:A:325:PX4:H65	4:A:353:PX4:H60	0.52	1.82	7	1
4:A:384:PX4:H69	4:A:392:PX4:H65	0.52	1.82	9	1
4:A:397:PX4:H57	4:A:423:PX4:H61	0.52	1.81	14	1
4:A:365:PX4:H19	4:A:369:PX4:H22	0.52	1.81	1	1
4:A:375:PX4:H56	4:A:400:PX4:H69	0.52	1.81	1	1
4:A:310:PX4:H23	4:A:311:PX4:H51	0.52	1.79	4	1
4:A:374:PX4:H71	4:A:419:PX4:H70	0.52	1.81	4	1
4:A:391:PX4:H21	4:A:427:PX4:H21	0.52	1.82	5	1
4:A:308:PX4:H31	4:A:315:PX4:H42	0.52	1.80	6	1
4:A:395:PX4:H47	4:A:401:PX4:H49	0.52	1.80	10	1
4:A:315:PX4:H56	4:A:332:PX4:H17	0.52	1.81	20	2
4:A:319:PX4:H54	4:A:343:PX4:H27	0.52	1.81	12	1
4:A:323:PX4:H16	4:A:353:PX4:H49	0.52	1.81	18	1
4:A:365:PX4:H37	4:A:369:PX4:H36	0.52	1.81	2	1
4:A:391:PX4:H30	4:A:407:PX4:H24	0.52	1.82	2	1
4:A:416:PX4:H49	4:A:421:PX4:H27	0.52	1.80	3	1
4:A:343:PX4:H22	4:A:356:PX4:H54	0.52	1.82	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:373:PX4:H19	4:A:386:PX4:H56	0.52	1.81	15	1
4:A:322:PX4:H59	4:A:330:PX4:H31	0.52	1.82	16	1
4:A:386:PX4:H52	4:A:417:PX4:H32	0.52	1.82	16	1
4:A:366:PX4:H64	4:A:390:PX4:H34	0.52	1.81	19	1
4:A:373:PX4:H41	4:A:378:PX4:H62	0.52	1.81	3	1
4:A:329:PX4:H69	4:A:387:PX4:H37	0.52	1.82	9	1
4:A:374:PX4:H57	4:A:381:PX4:H58	0.52	1.80	9	1
4:A:314:PX4:H24	4:A:336:PX4:H20	0.52	1.82	18	1
4:A:394:PX4:H56	4:A:430:PX4:H58	0.52	1.82	4	1
4:A:375:PX4:H31	4:A:407:PX4:H41	0.52	1.81	6	1
4:A:339:PX4:H46	4:A:363:PX4:H17	0.52	1.82	9	1
4:A:368:PX4:H4	5:A:436:C3S:C13	0.52	2.35	9	1
4:A:355:PX4:H38	4:A:397:PX4:H44	0.52	1.82	10	1
4:A:369:PX4:H56	4:A:419:PX4:H54	0.52	1.80	12	1
4:A:347:PX4:H60	4:A:354:PX4:H34	0.51	1.81	1	1
4:A:369:PX4:H21	4:A:374:PX4:H60	0.51	1.82	4	1
4:A:395:PX4:H21	4:A:401:PX4:H57	0.51	1.82	9	1
4:A:405:PX4:H60	4:A:407:PX4:H68	0.51	1.82	15	1
4:A:351:PX4:H69	4:A:360:PX4:H47	0.51	1.80	18	1
4:A:368:PX4:H18	5:A:436:C3S:H691	0.51	1.81	18	1
4:A:351:PX4:C14	4:A:359:PX4:H19	0.51	2.34	19	1
4:A:307:PX4:H25	4:A:307:PX4:H59	0.51	1.81	1	1
4:A:331:PX4:H28	4:A:337:PX4:H28	0.51	1.81	3	2
4:A:332:PX4:H23	4:A:348:PX4:H67	0.51	1.82	4	1
4:A:326:PX4:H52	4:A:353:PX4:H45	0.51	1.82	5	1
4:A:328:PX4:O7	4:A:347:PX4:H14	0.51	2.05	5	1
4:A:385:PX4:H46	4:A:415:PX4:H14	0.51	1.81	15	2
4:A:394:PX4:H26	4:A:401:PX4:H55	0.51	1.82	5	1
4:A:310:PX4:H51	4:A:311:PX4:H20	0.51	1.82	10	1
4:A:393:PX4:H14	4:A:419:PX4:O5	0.51	2.06	11	1
4:A:330:PX4:H24	4:A:337:PX4:H22	0.51	1.83	14	1
4:A:412:PX4:H61	4:A:424:PX4:H57	0.51	1.82	16	1
4:A:388:PX4:H22	4:A:396:PX4:H44	0.51	1.81	18	1
1:A:156:LEU:HD12	1:A:178:TRP:CH2	0.51	2.41	2	1
4:A:335:PX4:H58	4:A:347:PX4:H63	0.51	1.80	2	1
4:A:316:PX4:H25	4:A:352:PX4:H27	0.51	1.82	7	1
4:A:386:PX4:H10	4:A:417:PX4:O6	0.51	2.05	8	1
4:A:323:PX4:H49	4:A:360:PX4:H23	0.51	1.83	9	1
4:A:357:PX4:H17	4:A:363:PX4:H25	0.51	1.82	9	1
4:A:339:PX4:H71	4:A:363:PX4:H35	0.51	1.81	11	1
4:A:396:PX4:H24	4:A:407:PX4:H17	0.51	1.81	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:409:PX4:H36	4:A:425:PX4:H39	0.51	1.82	16	1
4:A:307:PX4:O2	4:A:332:PX4:H8	0.51	2.05	17	1
4:A:376:PX4:H21	4:A:383:PX4:H27	0.51	1.80	17	1
4:A:387:PX4:H62	4:A:404:PX4:H35	0.51	1.82	6	1
1:A:114:ASN:OD1	4:A:348:PX4:H3	0.51	2.05	19	3
4:A:372:PX4:C2	4:A:410:PX4:H15	0.51	2.36	10	1
4:A:368:PX4:H7	4:A:368:PX4:H14	0.51	1.83	3	1
1:A:98:ARG:O	4:A:334:PX4:H6	0.51	2.06	4	1
4:A:307:PX4:H21	4:A:322:PX4:H46	0.51	1.82	4	1
4:A:321:PX4:H41	4:A:375:PX4:H39	0.51	1.81	10	1
4:A:428:PX4:H28	4:A:429:PX4:H27	0.51	1.83	10	1
4:A:322:PX4:H67	4:A:369:PX4:H43	0.51	1.81	11	1
4:A:398:PX4:H29	4:A:411:PX4:H53	0.51	1.81	11	1
4:A:409:PX4:H43	4:A:428:PX4:H53	0.51	1.83	13	1
4:A:333:PX4:H13	4:A:334:PX4:O8	0.51	2.05	15	1
4:A:307:PX4:H13	4:A:322:PX4:H15	0.51	1.81	3	1
4:A:362:PX4:H28	4:A:364:PX4:H57	0.51	1.83	4	1
4:A:385:PX4:H47	4:A:415:PX4:H21	0.51	1.82	6	1
4:A:386:PX4:H31	4:A:386:PX4:H63	0.51	1.83	7	1
4:A:322:PX4:H52	4:A:337:PX4:H52	0.51	1.82	9	1
4:A:334:PX4:H65	4:A:426:PX4:H60	0.51	1.81	9	1
4:A:309:PX4:H39	4:A:323:PX4:H41	0.51	1.82	14	1
4:A:316:PX4:C8	4:A:352:PX4:H19	0.51	2.32	17	1
4:A:306:PX4:H41	4:A:358:PX4:H68	0.51	1.82	18	1
4:A:374:PX4:H36	4:A:418:PX4:H24	0.51	1.82	18	1
4:A:404:PX4:H57	4:A:415:PX4:H53	0.51	1.82	2	1
4:A:306:PX4:H31	4:A:358:PX4:H17	0.51	1.82	7	1
4:A:334:PX4:H39	4:A:340:PX4:H32	0.51	1.81	7	1
4:A:382:PX4:H17	4:A:423:PX4:H25	0.51	1.82	7	1
4:A:318:PX4:H23	4:A:339:PX4:H29	0.51	1.82	14	1
4:A:325:PX4:H62	4:A:355:PX4:H66	0.51	1.80	17	1
4:A:328:PX4:O4	4:A:347:PX4:H14	0.51	2.06	19	1
4:A:342:PX4:H40	4:A:345:PX4:H66	0.51	1.82	19	1
4:A:340:PX4:H14	4:A:340:PX4:H7	0.51	1.80	1	1
4:A:365:PX4:H17	4:A:383:PX4:H21	0.51	1.82	1	1
4:A:373:PX4:H23	4:A:426:PX4:H47	0.51	1.83	1	1
4:A:382:PX4:H28	4:A:385:PX4:H54	0.51	1.82	7	1
4:A:382:PX4:H20	4:A:398:PX4:H47	0.51	1.81	7	1
4:A:406:PX4:H53	4:A:414:PX4:H21	0.51	1.82	7	1
4:A:375:PX4:H26	4:A:392:PX4:H36	0.51	1.82	8	1
4:A:428:PX4:H28	4:A:429:PX4:H32	0.51	1.82	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:397:PX4:H20	4:A:411:PX4:H70	0.51	1.81	16	1
4:A:348:PX4:H45	4:A:407:PX4:H41	0.51	1.82	1	1
4:A:408:PX4:H57	4:A:414:PX4:H48	0.51	1.83	3	1
4:A:332:PX4:H16	4:A:348:PX4:H11	0.51	1.83	7	1
4:A:394:PX4:H71	4:A:402:PX4:H72	0.51	1.83	9	1
4:A:414:PX4:H46	4:A:426:PX4:H19	0.51	1.81	10	1
4:A:381:PX4:H32	4:A:394:PX4:H57	0.51	1.81	14	1
4:A:375:PX4:H10	4:A:375:PX4:H14	0.51	1.83	15	1
4:A:325:PX4:H23	4:A:355:PX4:H17	0.51	1.82	17	1
4:A:344:PX4:H71	4:A:393:PX4:H63	0.51	1.81	17	1
4:A:399:PX4:H35	4:A:424:PX4:H28	0.51	1.83	1	1
4:A:348:PX4:H23	4:A:359:PX4:H21	0.51	1.83	2	1
4:A:353:PX4:H49	4:A:361:PX4:H25	0.51	1.82	8	1
4:A:324:PX4:H33	4:A:324:PX4:H61	0.51	1.82	9	1
4:A:323:PX4:H21	4:A:353:PX4:H20	0.51	1.83	10	1
4:A:387:PX4:H57	4:A:418:PX4:H58	0.51	1.83	20	1
4:A:400:PX4:O5	4:A:401:PX4:H49	0.51	2.05	20	1
4:A:400:PX4:H1	4:A:401:PX4:O2	0.51	2.06	20	1
4:A:321:PX4:H51	4:A:342:PX4:H28	0.50	1.81	2	1
4:A:322:PX4:H17	4:A:344:PX4:H18	0.50	1.82	4	1
4:A:414:PX4:H32	5:A:432:C3S:H693	0.50	1.82	10	1
4:A:327:PX4:H43	4:A:369:PX4:H38	0.50	1.83	12	1
4:A:318:PX4:H50	4:A:363:PX4:H30	0.50	1.84	3	1
4:A:308:PX4:H52	4:A:320:PX4:H25	0.50	1.83	7	1
4:A:374:PX4:H23	4:A:423:PX4:H53	0.50	1.83	14	1
4:A:338:PX4:H33	4:A:344:PX4:H67	0.50	1.82	18	1
4:A:371:PX4:H72	4:A:373:PX4:H45	0.50	1.83	18	1
4:A:412:PX4:H47	4:A:412:PX4:H8	0.50	1.82	20	1
4:A:332:PX4:H4	4:A:348:PX4:H49	0.50	1.84	2	1
4:A:318:PX4:H56	4:A:357:PX4:H23	0.50	1.82	4	1
4:A:327:PX4:H40	4:A:348:PX4:H62	0.50	1.82	7	1
4:A:345:PX4:H32	4:A:349:PX4:H63	0.50	1.83	8	1
4:A:342:PX4:O1	4:A:358:PX4:H12	0.50	2.06	12	1
4:A:343:PX4:H56	4:A:350:PX4:H17	0.50	1.82	13	1
4:A:387:PX4:O3	4:A:416:PX4:H12	0.50	2.06	15	1
4:A:312:PX4:H22	4:A:346:PX4:H52	0.50	1.82	17	1
4:A:354:PX4:H64	4:A:419:PX4:H45	0.50	1.82	17	1
4:A:377:PX4:H45	4:A:408:PX4:H61	0.50	1.83	19	1
4:A:323:PX4:H19	4:A:349:PX4:H16	0.50	1.84	3	1
4:A:310:PX4:H59	4:A:311:PX4:H33	0.50	1.83	4	1
4:A:420:PX4:O6	4:A:422:PX4:H16	0.50	2.07	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:386:PX4:O8	4:A:402:PX4:H14	0.50	2.05	6	1
4:A:383:PX4:H16	4:A:396:PX4:H46	0.50	1.82	8	1
4:A:386:PX4:O5	4:A:402:PX4:H14	0.50	2.07	9	1
4:A:403:PX4:H26	4:A:421:PX4:H55	0.50	1.82	9	1
4:A:336:PX4:H26	4:A:360:PX4:H59	0.50	1.82	11	1
4:A:305:PX4:H59	4:A:339:PX4:H41	0.50	1.82	19	1
4:A:324:PX4:H61	4:A:386:PX4:H70	0.50	1.82	2	1
4:A:315:PX4:H60	4:A:332:PX4:H17	0.50	1.84	4	1
4:A:336:PX4:H49	4:A:354:PX4:H51	0.50	1.82	4	1
4:A:369:PX4:H57	4:A:419:PX4:H21	0.50	1.83	5	1
4:A:385:PX4:H17	5:A:433:C3S:C13	0.50	2.37	6	1
4:A:336:PX4:H17	4:A:352:PX4:H11	0.50	1.81	8	1
4:A:327:PX4:H69	4:A:348:PX4:H50	0.50	1.82	12	1
1:A:156:LEU:H	1:A:156:LEU:HD23	0.50	1.66	4	1
4:A:319:PX4:H25	4:A:341:PX4:H71	0.50	1.84	4	1
4:A:427:PX4:O6	4:A:427:PX4:H2	0.50	2.06	8	2
4:A:404:PX4:H36	4:A:417:PX4:H25	0.50	1.82	8	1
4:A:311:PX4:H62	4:A:329:PX4:H64	0.50	1.82	9	1
4:A:322:PX4:H69	4:A:337:PX4:H39	0.50	1.82	16	1
4:A:346:PX4:H35	4:A:349:PX4:H40	0.50	1.82	16	1
4:A:379:PX4:H18	4:A:425:PX4:O6	0.50	2.07	17	1
4:A:357:PX4:H72	4:A:363:PX4:H33	0.50	1.82	18	1
4:A:370:PX4:O6	4:A:383:PX4:H9	0.50	2.07	18	1
4:A:350:PX4:H72	4:A:402:PX4:H39	0.50	1.83	20	1
4:A:367:PX4:H30	4:A:367:PX4:H62	0.50	1.83	2	1
4:A:375:PX4:H20	4:A:427:PX4:H17	0.50	1.84	3	1
4:A:323:PX4:H14	4:A:353:PX4:O8	0.50	2.07	6	1
4:A:387:PX4:H3	4:A:416:PX4:O2	0.50	2.07	6	1
4:A:416:PX4:O6	4:A:416:PX4:H2	0.50	2.07	9	1
4:A:340:PX4:O6	4:A:350:PX4:H8	0.50	2.06	13	2
4:A:375:PX4:H57	4:A:405:PX4:H25	0.50	1.83	13	1
4:A:394:PX4:H31	4:A:400:PX4:H52	0.50	1.83	14	1
4:A:386:PX4:H49	4:A:421:PX4:H66	0.50	1.84	1	1
4:A:400:PX4:H62	4:A:405:PX4:H53	0.50	1.83	1	1
4:A:404:PX4:H48	4:A:415:PX4:H17	0.50	1.84	2	1
4:A:392:PX4:O2	4:A:425:PX4:H14	0.50	2.06	5	1
4:A:393:PX4:H2	4:A:416:PX4:H14	0.50	1.82	8	1
4:A:409:PX4:O8	4:A:428:PX4:H7	0.50	2.06	9	1
4:A:307:PX4:H56	4:A:348:PX4:H58	0.50	1.84	10	1
4:A:376:PX4:H61	4:A:390:PX4:H48	0.50	1.83	10	1
4:A:420:PX4:H34	4:A:422:PX4:H61	0.50	1.83	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:370:PX4:H23	4:A:383:PX4:H48	0.50	1.84	18	1
4:A:386:PX4:H24	4:A:402:PX4:H16	0.50	1.83	1	1
4:A:323:PX4:H41	4:A:349:PX4:H22	0.50	1.82	3	1
4:A:371:PX4:O3	4:A:373:PX4:H18	0.50	2.06	7	1
4:A:313:PX4:H15	4:A:355:PX4:H47	0.50	1.84	9	1
4:A:309:PX4:H50	4:A:347:PX4:H20	0.50	1.83	13	1
4:A:409:PX4:H29	4:A:428:PX4:H12	0.50	1.82	14	1
4:A:388:PX4:H32	4:A:396:PX4:H35	0.50	1.82	15	1
4:A:373:PX4:H47	4:A:406:PX4:H53	0.50	1.84	19	1
4:A:307:PX4:H55	4:A:307:PX4:H21	0.49	1.83	1	1
4:A:333:PX4:H42	4:A:364:PX4:H39	0.49	1.84	1	1
4:A:393:PX4:O5	4:A:419:PX4:H19	0.49	2.07	1	1
4:A:344:PX4:H9	4:A:354:PX4:O6	0.49	2.07	4	1
4:A:365:PX4:H43	4:A:413:PX4:H41	0.49	1.84	4	1
4:A:394:PX4:H16	4:A:395:PX4:H49	0.49	1.84	5	1
4:A:389:PX4:H16	4:A:399:PX4:H52	0.49	1.83	7	1
4:A:305:PX4:H60	4:A:312:PX4:H63	0.49	1.83	13	1
4:A:312:PX4:H22	4:A:346:PX4:C27	0.49	2.37	17	1
4:A:395:PX4:H48	4:A:401:PX4:H54	0.49	1.83	17	1
1:A:224:PHE:O	4:A:315:PX4:H5	0.49	2.07	1	2
4:A:408:PX4:H55	4:A:427:PX4:H50	0.49	1.82	2	1
4:A:340:PX4:H17	4:A:356:PX4:H53	0.49	1.83	4	2
4:A:378:PX4:H9	4:A:388:PX4:O1	0.49	2.07	6	1
4:A:320:PX4:H56	5:A:432:C3S:H41	0.49	1.84	8	1
4:A:366:PX4:H62	4:A:403:PX4:H57	0.49	1.85	8	1
4:A:365:PX4:H38	4:A:376:PX4:H25	0.49	1.84	9	1
4:A:367:PX4:H22	4:A:399:PX4:H15	0.49	1.84	9	1
4:A:394:PX4:H53	4:A:395:PX4:H50	0.49	1.84	9	1
4:A:341:PX4:H17	4:A:341:PX4:H6	0.49	1.85	12	1
4:A:341:PX4:H23	4:A:362:PX4:H26	0.49	1.82	16	1
4:A:306:PX4:H69	4:A:316:PX4:H28	0.49	1.82	17	1
4:A:307:PX4:H54	4:A:344:PX4:H49	0.49	1.84	20	1
4:A:429:PX4:H14	4:A:429:PX4:H13	0.49	1.83	20	1
4:A:313:PX4:H65	4:A:325:PX4:H56	0.49	1.82	1	1
4:A:310:PX4:H36	4:A:364:PX4:H38	0.49	1.84	6	1
4:A:308:PX4:H29	4:A:315:PX4:H39	0.49	1.84	13	1
4:A:376:PX4:H60	4:A:390:PX4:H64	0.49	1.83	13	1
4:A:322:PX4:H69	4:A:327:PX4:H63	0.49	1.82	14	1
4:A:378:PX4:H38	4:A:426:PX4:H39	0.49	1.83	17	1
4:A:326:PX4:H36	4:A:330:PX4:H32	0.49	1.83	19	1
4:A:337:PX4:H53	4:A:337:PX4:H32	0.49	1.84	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:382:PX4:H24	4:A:423:PX4:H31	0.49	1.83	20	1
4:A:366:PX4:H30	4:A:414:PX4:H70	0.49	1.84	5	1
4:A:369:PX4:H53	4:A:419:PX4:H48	0.49	1.84	5	1
4:A:314:PX4:H57	4:A:336:PX4:H70	0.49	1.83	6	1
4:A:406:PX4:H20	4:A:410:PX4:H49	0.49	1.83	6	1
4:A:368:PX4:H49	4:A:414:PX4:H23	0.49	1.85	9	1
4:A:420:PX4:O8	4:A:420:PX4:H4	0.49	2.08	9	1
4:A:402:PX4:H42	5:A:431:C3S:H502	0.49	1.85	11	1
4:A:341:PX4:H7	4:A:364:PX4:O8	0.49	2.07	15	1
4:A:320:PX4:H59	4:A:334:PX4:H51	0.49	1.83	16	1
4:A:370:PX4:H26	4:A:383:PX4:H17	0.49	1.84	18	1
4:A:309:PX4:H47	4:A:328:PX4:H23	0.49	1.84	2	1
4:A:397:PX4:H29	4:A:412:PX4:H58	0.49	1.85	4	1
4:A:355:PX4:H16	4:A:362:PX4:H46	0.49	1.84	6	1
4:A:381:PX4:H41	4:A:394:PX4:H69	0.49	1.84	6	1
4:A:380:PX4:H25	4:A:385:PX4:H30	0.49	1.83	7	1
4:A:396:PX4:H19	4:A:407:PX4:C6	0.49	2.37	10	1
4:A:374:PX4:H29	4:A:418:PX4:H24	0.49	1.84	11	1
4:A:414:PX4:H16	5:A:436:C3S:H652	0.49	1.84	11	1
4:A:386:PX4:H30	4:A:417:PX4:H50	0.49	1.85	20	1
4:A:390:PX4:H37	4:A:419:PX4:H29	0.49	1.84	20	1
4:A:322:PX4:H53	4:A:330:PX4:H30	0.49	1.83	7	1
4:A:389:PX4:H46	4:A:400:PX4:H19	0.49	1.85	9	1
4:A:317:PX4:H61	4:A:330:PX4:H39	0.49	1.85	14	1
4:A:307:PX4:H41	4:A:374:PX4:H29	0.49	1.85	16	1
4:A:330:PX4:H67	4:A:331:PX4:H36	0.49	1.83	1	1
4:A:305:PX4:H53	4:A:311:PX4:H26	0.49	1.85	2	1
4:A:308:PX4:H27	4:A:320:PX4:H17	0.49	1.83	3	1
4:A:308:PX4:H3	4:A:334:PX4:O6	0.49	2.08	3	1
4:A:320:PX4:H50	4:A:334:PX4:H49	0.49	1.84	3	1
4:A:368:PX4:H34	4:A:368:PX4:H69	0.49	1.85	3	2
4:A:307:PX4:H22	4:A:331:PX4:H27	0.49	1.84	4	1
4:A:316:PX4:H25	4:A:321:PX4:H20	0.49	1.84	5	1
4:A:307:PX4:H21	4:A:322:PX4:H17	0.49	1.84	7	1
4:A:428:PX4:H14	4:A:429:PX4:O3	0.49	2.08	7	1
4:A:375:PX4:H48	4:A:392:PX4:H22	0.49	1.83	13	1
4:A:375:PX4:H67	4:A:379:PX4:H41	0.49	1.83	15	1
4:A:308:PX4:H43	4:A:343:PX4:H67	0.49	1.83	16	1
4:A:338:PX4:H15	4:A:351:PX4:H2	0.49	1.84	20	1
4:A:343:PX4:H48	4:A:356:PX4:C26	0.49	2.38	4	1
4:A:370:PX4:H35	4:A:400:PX4:H60	0.49	1.83	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:388:PX4:H50	4:A:391:PX4:H47	0.49	1.83	7	1
4:A:342:PX4:H72	4:A:377:PX4:H44	0.49	1.83	11	1
4:A:409:PX4:H34	4:A:428:PX4:O6	0.49	2.08	13	1
4:A:373:PX4:H47	4:A:406:PX4:H49	0.49	1.85	19	1
4:A:394:PX4:H40	4:A:407:PX4:H28	0.49	1.85	20	1
4:A:308:PX4:H70	4:A:418:PX4:H43	0.49	1.83	1	1
4:A:308:PX4:H15	4:A:326:PX4:H46	0.49	1.85	2	1
4:A:370:PX4:H69	4:A:374:PX4:H64	0.49	1.84	2	1
4:A:309:PX4:H6	4:A:351:PX4:H20	0.49	1.85	3	1
4:A:310:PX4:H46	4:A:333:PX4:H54	0.49	1.85	3	1
4:A:353:PX4:H19	4:A:361:PX4:H49	0.49	1.84	4	1
4:A:305:PX4:O2	4:A:339:PX4:H2	0.49	2.08	8	1
4:A:394:PX4:H22	4:A:400:PX4:H46	0.49	1.83	20	2
4:A:373:PX4:H21	4:A:406:PX4:H53	0.49	1.84	18	1
4:A:374:PX4:H36	4:A:382:PX4:H54	0.49	1.82	20	1
1:A:222:GLN:O	4:A:317:PX4:H5	0.49	2.08	2	1
4:A:365:PX4:H40	4:A:430:PX4:H68	0.49	1.85	2	1
4:A:365:PX4:O6	4:A:369:PX4:H13	0.49	2.08	2	1
4:A:306:PX4:H69	4:A:342:PX4:H35	0.49	1.84	3	1
4:A:346:PX4:H25	5:A:431:C3S:H41	0.49	1.85	7	1
4:A:375:PX4:H68	4:A:392:PX4:H40	0.49	1.85	13	1
4:A:324:PX4:H66	4:A:373:PX4:H34	0.49	1.85	15	1
4:A:341:PX4:H40	4:A:362:PX4:H64	0.49	1.85	16	1
4:A:374:PX4:O2	4:A:423:PX4:H3	0.49	2.08	16	1
4:A:322:PX4:H66	4:A:430:PX4:C35	0.49	2.36	17	1
4:A:343:PX4:H47	4:A:356:PX4:H51	0.49	1.82	18	1
4:A:383:PX4:H61	4:A:405:PX4:H61	0.48	1.84	1	1
4:A:325:PX4:H8	4:A:328:PX4:H49	0.48	1.83	2	1
4:A:373:PX4:H70	4:A:399:PX4:H44	0.48	1.85	5	1
4:A:423:PX4:H69	4:A:428:PX4:H63	0.48	1.85	6	1
4:A:410:PX4:H22	4:A:414:PX4:H36	0.48	1.84	7	1
4:A:378:PX4:H17	4:A:426:PX4:O6	0.48	2.07	11	1
4:A:397:PX4:H16	4:A:411:PX4:H20	0.48	1.85	12	1
4:A:314:PX4:H65	4:A:387:PX4:H42	0.48	1.84	15	1
4:A:411:PX4:H62	4:A:424:PX4:H39	0.48	1.83	15	1
4:A:322:PX4:O6	4:A:336:PX4:H11	0.48	2.08	16	1
4:A:391:PX4:H49	4:A:427:PX4:H19	0.48	1.85	16	1
4:A:417:PX4:H16	4:A:418:PX4:H22	0.48	1.85	8	1
4:A:345:PX4:H40	4:A:346:PX4:H38	0.48	1.84	9	1
4:A:327:PX4:H22	4:A:348:PX4:H20	0.48	1.84	11	1
4:A:397:PX4:H62	4:A:429:PX4:H58	0.48	1.84	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:399:PX4:H30	4:A:414:PX4:H36	0.48	1.85	12	1
4:A:325:PX4:H50	4:A:355:PX4:H55	0.48	1.84	17	1
4:A:317:PX4:H46	4:A:330:PX4:H23	0.48	1.84	20	1
4:A:388:PX4:O2	4:A:391:PX4:H15	0.48	2.07	1	1
4:A:316:PX4:H47	4:A:321:PX4:H33	0.48	1.84	4	1
4:A:403:PX4:H31	4:A:421:PX4:H69	0.48	1.86	5	1
4:A:312:PX4:H19	4:A:346:PX4:H17	0.48	1.85	7	1
4:A:341:PX4:H52	4:A:356:PX4:H23	0.48	1.85	9	1
4:A:326:PX4:H71	4:A:371:PX4:H37	0.48	1.85	11	1
4:A:369:PX4:H36	4:A:374:PX4:H61	0.48	1.85	11	1
4:A:315:PX4:H32	4:A:350:PX4:H42	0.48	1.84	12	1
4:A:308:PX4:H44	4:A:343:PX4:H66	0.48	1.85	13	1
4:A:376:PX4:H38	4:A:427:PX4:H24	0.48	1.83	14	1
4:A:385:PX4:H49	4:A:415:PX4:H20	0.48	1.83	16	1
4:A:411:PX4:H72	4:A:411:PX4:H24	0.48	1.84	16	1
4:A:368:PX4:O6	4:A:414:PX4:H14	0.48	2.08	1	1
4:A:309:PX4:H66	4:A:351:PX4:H34	0.48	1.83	2	1
4:A:388:PX4:H67	4:A:414:PX4:H63	0.48	1.84	3	1
4:A:379:PX4:O8	4:A:425:PX4:H3	0.48	2.09	4	1
4:A:382:PX4:H6	4:A:424:PX4:O6	0.48	2.08	4	1
4:A:328:PX4:H70	4:A:390:PX4:H41	0.48	1.85	5	1
1:A:102:HIS:CE1	4:A:350:PX4:H6	0.48	2.43	8	1
4:A:327:PX4:H20	4:A:348:PX4:H16	0.48	1.85	8	1
1:A:113:LEU:HD21	1:A:196:LEU:HD22	0.48	1.83	10	1
4:A:377:PX4:H49	4:A:408:PX4:H23	0.48	1.85	10	1
4:A:414:PX4:O2	4:A:426:PX4:H10	0.48	2.07	12	1
4:A:382:PX4:O4	4:A:398:PX4:H17	0.48	2.07	14	1
4:A:374:PX4:H9	4:A:423:PX4:O2	0.48	2.08	1	1
4:A:333:PX4:H39	4:A:389:PX4:C36	0.48	2.39	2	1
4:A:395:PX4:H17	4:A:401:PX4:H49	0.48	1.85	2	1
4:A:305:PX4:H32	4:A:310:PX4:H57	0.48	1.85	3	1
4:A:393:PX4:H71	4:A:429:PX4:H43	0.48	1.83	5	1
4:A:384:PX4:H34	4:A:389:PX4:H56	0.48	1.85	6	1
4:A:397:PX4:H64	4:A:423:PX4:H62	0.48	1.85	8	1
4:A:309:PX4:H24	4:A:345:PX4:H67	0.48	1.84	9	1
4:A:405:PX4:H59	4:A:407:PX4:H60	0.48	1.85	9	1
4:A:315:PX4:H60	4:A:332:PX4:H69	0.48	1.85	12	1
4:A:338:PX4:H24	4:A:351:PX4:H72	0.48	1.85	12	1
4:A:419:PX4:H31	4:A:429:PX4:H26	0.48	1.84	15	1
4:A:321:PX4:H58	4:A:342:PX4:H37	0.48	1.84	18	1
4:A:321:PX4:H50	4:A:342:PX4:H34	0.48	1.86	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:328:PX4:H64	4:A:360:PX4:H22	0.48	1.86	20	1
4:A:324:PX4:H52	5:A:432:C3S:H322	0.48	1.84	1	1
1:A:128:VAL:HG21	4:A:343:PX4:H63	0.48	1.84	3	1
4:A:309:PX4:H26	4:A:359:PX4:H22	0.48	1.85	8	1
4:A:312:PX4:H69	5:A:431:C3S:H693	0.48	1.85	12	1
4:A:323:PX4:H52	4:A:328:PX4:H16	0.48	1.83	12	1
4:A:389:PX4:H37	4:A:399:PX4:H66	0.48	1.84	13	1
4:A:327:PX4:H15	4:A:348:PX4:H16	0.48	1.84	16	1
4:A:365:PX4:H67	4:A:407:PX4:H61	0.48	1.86	16	1
4:A:317:PX4:H35	4:A:361:PX4:H29	0.48	1.85	17	1
4:A:337:PX4:H23	4:A:355:PX4:H27	0.48	1.84	17	1
4:A:346:PX4:H45	4:A:402:PX4:H35	0.48	1.83	17	1
4:A:352:PX4:C20	4:A:375:PX4:H44	0.48	2.33	18	1
4:A:374:PX4:H51	4:A:430:PX4:H53	0.48	1.85	19	1
4:A:325:PX4:H63	4:A:329:PX4:H52	0.48	1.84	20	1
4:A:374:PX4:H20	4:A:423:PX4:H49	0.48	1.85	20	1
4:A:367:PX4:H17	4:A:367:PX4:O8	0.48	2.07	2	1
1:A:99:ASP:O	4:A:334:PX4:H11	0.48	2.09	3	1
4:A:371:PX4:H20	4:A:400:PX4:H41	0.48	1.84	3	1
4:A:376:PX4:H63	4:A:396:PX4:H64	0.48	1.85	3	1
4:A:322:PX4:H42	4:A:331:PX4:H41	0.48	1.84	4	1
4:A:343:PX4:H20	4:A:352:PX4:H54	0.48	1.85	6	1
4:A:379:PX4:H59	4:A:413:PX4:H22	0.48	1.85	8	1
1:A:15:ALA:HB1	1:A:39:LEU:HD21	0.48	1.86	9	1
4:A:313:PX4:O7	4:A:329:PX4:H15	0.48	2.09	10	1
4:A:392:PX4:H50	4:A:425:PX4:H49	0.48	1.86	11	1
4:A:320:PX4:H42	4:A:350:PX4:H35	0.48	1.85	12	1
1:A:158:HIS:CD2	1:A:171:HIS:HB2	0.48	2.43	13	1
4:A:400:PX4:H20	4:A:401:PX4:H47	0.48	1.86	13	1
4:A:314:PX4:H14	4:A:336:PX4:O6	0.48	2.08	14	1
4:A:391:PX4:H34	4:A:408:PX4:H66	0.48	1.86	15	1
4:A:341:PX4:O8	4:A:341:PX4:H3	0.48	2.09	16	1
4:A:328:PX4:H37	4:A:345:PX4:H27	0.48	1.86	18	1
4:A:314:PX4:H19	4:A:336:PX4:H29	0.48	1.86	1	1
1:A:156:LEU:H	1:A:156:LEU:CD2	0.48	2.21	4	1
4:A:399:PX4:H35	4:A:424:PX4:H31	0.48	1.85	5	1
4:A:429:PX4:H63	4:A:430:PX4:H33	0.48	1.85	11	1
4:A:384:PX4:O8	4:A:405:PX4:H11	0.48	2.08	12	1
4:A:367:PX4:H69	4:A:389:PX4:H31	0.48	1.84	13	1
4:A:338:PX4:C10	4:A:344:PX4:H53	0.48	2.39	17	1
4:A:327:PX4:H32	4:A:332:PX4:H56	0.48	1.85	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:367:PX4:H18	4:A:399:PX4:O7	0.48	2.09	18	1
4:A:340:PX4:H13	5:A:432:C3S:O4	0.48	2.08	19	1
1:A:128:VAL:HG23	4:A:343:PX4:H39	0.48	1.84	1	1
4:A:396:PX4:H19	4:A:407:PX4:H17	0.48	1.85	7	2
4:A:308:PX4:H59	4:A:417:PX4:H40	0.48	1.84	3	1
4:A:376:PX4:H21	4:A:383:PX4:H30	0.48	1.86	4	1
4:A:343:PX4:H42	4:A:384:PX4:H43	0.48	1.85	7	1
4:A:381:PX4:H58	4:A:430:PX4:H65	0.48	1.86	7	1
4:A:377:PX4:H16	5:A:436:C3S:H442	0.48	1.85	9	1
4:A:373:PX4:H41	4:A:401:PX4:H34	0.48	1.86	10	1
4:A:327:PX4:H19	4:A:359:PX4:H30	0.48	1.85	13	1
4:A:377:PX4:H17	4:A:408:PX4:O1	0.48	2.08	15	1
4:A:392:PX4:H20	4:A:407:PX4:H18	0.48	1.85	15	1
4:A:369:PX4:H23	4:A:374:PX4:H54	0.48	1.86	19	1
4:A:320:PX4:H71	4:A:350:PX4:H46	0.48	1.84	20	1
4:A:378:PX4:H54	4:A:402:PX4:H22	0.48	1.84	20	1
4:A:326:PX4:H33	4:A:404:PX4:H39	0.48	1.85	3	1
4:A:387:PX4:H6	4:A:415:PX4:O3	0.48	2.08	7	1
4:A:319:PX4:H54	4:A:356:PX4:H16	0.48	1.84	8	1
4:A:320:PX4:H8	4:A:326:PX4:H17	0.48	1.86	8	1
1:A:15:ALA:HB1	1:A:39:LEU:CD2	0.48	2.39	9	1
4:A:328:PX4:H57	4:A:347:PX4:H22	0.48	1.86	12	1
4:A:307:PX4:H36	4:A:331:PX4:H35	0.48	1.86	14	1
4:A:322:PX4:H24	4:A:331:PX4:H51	0.48	1.85	14	1
4:A:353:PX4:H20	4:A:361:PX4:H48	0.48	1.84	15	1
4:A:342:PX4:H44	4:A:405:PX4:H37	0.48	1.86	16	1
4:A:316:PX4:H63	4:A:352:PX4:H68	0.48	1.86	17	1
4:A:367:PX4:H46	4:A:384:PX4:H5	0.48	1.86	17	1
4:A:374:PX4:H23	4:A:397:PX4:H67	0.48	1.84	17	1
4:A:374:PX4:O2	4:A:397:PX4:H15	0.48	2.09	17	1
4:A:378:PX4:H35	4:A:403:PX4:H39	0.48	1.85	20	1
4:A:398:PX4:H2	5:A:435:C3S:O2	0.47	2.08	1	1
4:A:322:PX4:H50	4:A:331:PX4:H19	0.47	1.85	3	1
4:A:375:PX4:H35	4:A:391:PX4:H26	0.47	1.84	8	1
4:A:400:PX4:O4	4:A:401:PX4:H1	0.47	2.09	9	1
4:A:309:PX4:H46	4:A:349:PX4:H54	0.47	1.84	11	1
1:A:124:PHE:HB2	4:A:348:PX4:H1	0.47	1.84	12	1
4:A:334:PX4:H63	5:A:431:C3S:H48	0.47	1.86	12	1
4:A:400:PX4:H26	4:A:405:PX4:H26	0.47	1.85	15	1
4:A:348:PX4:H63	4:A:350:PX4:H40	0.47	1.85	16	1
4:A:319:PX4:H59	4:A:341:PX4:H57	0.47	1.85	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:383:PX4:H57	4:A:394:PX4:H37	0.47	1.85	1	1
4:A:385:PX4:H15	4:A:415:PX4:H18	0.47	1.86	1	1
4:A:399:PX4:H18	4:A:424:PX4:H13	0.47	1.86	4	1
4:A:399:PX4:H19	5:A:435:C3S:H42	0.47	1.85	4	1
4:A:326:PX4:H55	4:A:361:PX4:H57	0.47	1.84	5	1
4:A:321:PX4:H59	4:A:357:PX4:H42	0.47	1.85	8	1
4:A:305:PX4:O6	4:A:311:PX4:H12	0.47	2.09	12	1
4:A:378:PX4:H63	4:A:426:PX4:H26	0.47	1.84	16	1
4:A:407:PX4:O4	4:A:427:PX4:H1	0.47	2.09	17	1
4:A:417:PX4:H3	4:A:418:PX4:O6	0.47	2.07	19	1
4:A:383:PX4:H52	4:A:395:PX4:H59	0.47	1.86	1	1
4:A:385:PX4:H46	4:A:415:PX4:H46	0.47	1.86	1	1
4:A:310:PX4:H19	4:A:311:PX4:H47	0.47	1.86	4	1
4:A:343:PX4:H19	4:A:352:PX4:H55	0.47	1.86	5	1
4:A:387:PX4:H32	4:A:393:PX4:H50	0.47	1.85	5	1
4:A:343:PX4:H28	4:A:352:PX4:H58	0.47	1.86	8	1
4:A:370:PX4:H56	4:A:381:PX4:H47	0.47	1.84	10	1
4:A:382:PX4:H53	5:A:435:C3S:H601	0.47	1.87	12	1
4:A:366:PX4:H53	4:A:403:PX4:H49	0.47	1.86	14	1
4:A:347:PX4:H15	4:A:351:PX4:O8	0.47	2.09	1	1
4:A:409:PX4:H6	5:A:434:C3S:H91	0.47	1.84	2	1
4:A:367:PX4:H64	4:A:412:PX4:H26	0.47	1.86	9	1
4:A:368:PX4:H11	4:A:406:PX4:O1	0.47	2.10	9	1
4:A:336:PX4:H52	4:A:354:PX4:H21	0.47	1.85	10	1
4:A:340:PX4:H70	4:A:406:PX4:H68	0.47	1.86	12	1
4:A:387:PX4:H32	4:A:416:PX4:H60	0.47	1.86	12	1
4:A:346:PX4:H24	4:A:358:PX4:H24	0.47	1.86	14	1
4:A:412:PX4:H17	4:A:424:PX4:H53	0.47	1.87	19	1
4:A:397:PX4:H51	4:A:430:PX4:H20	0.47	1.87	20	1
4:A:368:PX4:C13	4:A:391:PX4:H44	0.47	2.38	1	1
4:A:327:PX4:H27	4:A:351:PX4:H6	0.47	1.85	3	1
4:A:310:PX4:H54	4:A:333:PX4:H48	0.47	1.85	5	1
4:A:384:PX4:H33	4:A:405:PX4:H37	0.47	1.85	5	1
4:A:345:PX4:H65	4:A:359:PX4:H27	0.47	1.87	6	1
4:A:316:PX4:H67	4:A:350:PX4:H55	0.47	1.86	9	1
4:A:328:PX4:H21	4:A:347:PX4:H23	0.47	1.86	10	1
4:A:389:PX4:H56	4:A:405:PX4:H27	0.47	1.87	14	1
4:A:371:PX4:H10	4:A:426:PX4:H50	0.47	1.86	17	1
4:A:368:PX4:H69	4:A:372:PX4:H39	0.47	1.85	18	1
4:A:324:PX4:H61	4:A:406:PX4:H72	0.47	1.85	19	1
4:A:412:PX4:H49	4:A:424:PX4:H51	0.47	1.86	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:342:PX4:C22	4:A:405:PX4:H69	0.47	2.40	3	1
4:A:376:PX4:H5	4:A:390:PX4:O8	0.47	2.10	4	1
4:A:382:PX4:H37	4:A:398:PX4:H39	0.47	1.86	4	1
4:A:334:PX4:H56	4:A:334:PX4:H29	0.47	1.84	9	1
4:A:323:PX4:H63	4:A:328:PX4:C30	0.47	2.40	11	1
4:A:379:PX4:H24	4:A:384:PX4:H53	0.47	1.84	13	1
4:A:398:PX4:H20	4:A:411:PX4:H46	0.47	1.86	14	1
4:A:338:PX4:H31	4:A:354:PX4:O8	0.47	2.10	17	1
4:A:319:PX4:H71	4:A:356:PX4:H32	0.47	1.85	19	1
4:A:327:PX4:O2	4:A:351:PX4:H4	0.47	2.10	19	1
4:A:370:PX4:H49	4:A:394:PX4:H54	0.47	1.86	19	1
4:A:351:PX4:H43	4:A:392:PX4:H41	0.47	1.87	2	1
4:A:384:PX4:H30	4:A:405:PX4:H41	0.47	1.85	2	1
4:A:407:PX4:H10	4:A:427:PX4:O6	0.47	2.10	2	1
1:A:124:PHE:O	4:A:348:PX4:H2	0.47	2.10	18	3
4:A:333:PX4:H34	4:A:340:PX4:H40	0.47	1.85	4	1
4:A:412:PX4:H10	4:A:412:PX4:O2	0.47	2.10	4	1
4:A:423:PX4:H13	4:A:423:PX4:H15	0.47	1.86	4	1
1:A:134:ILE:HG23	1:A:168:GLY:O	0.47	2.09	5	1
4:A:316:PX4:H43	4:A:352:PX4:H44	0.47	1.87	6	1
4:A:398:PX4:H31	5:A:435:C3S:H502	0.47	1.85	7	1
4:A:378:PX4:H40	4:A:418:PX4:H72	0.47	1.86	8	1
4:A:387:PX4:H27	4:A:416:PX4:H52	0.47	1.87	8	1
4:A:323:PX4:H67	4:A:328:PX4:H58	0.47	1.85	11	1
4:A:309:PX4:H38	4:A:345:PX4:H57	0.47	1.86	12	1
4:A:307:PX4:H31	4:A:344:PX4:H33	0.47	1.86	14	1
4:A:317:PX4:H30	4:A:326:PX4:H20	0.47	1.84	16	1
4:A:327:PX4:H66	4:A:347:PX4:H42	0.47	1.86	17	1
4:A:318:PX4:H16	4:A:357:PX4:H35	0.47	1.87	18	1
4:A:384:PX4:H52	5:A:434:C3S:H261	0.47	1.85	20	1
4:A:335:PX4:H27	4:A:363:PX4:H57	0.47	1.85	4	1
4:A:419:PX4:H30	4:A:429:PX4:H37	0.47	1.87	4	1
4:A:348:PX4:H27	4:A:359:PX4:H16	0.47	1.87	10	2
4:A:325:PX4:H55	4:A:329:PX4:H55	0.47	1.85	7	1
4:A:385:PX4:H19	5:A:433:C3S:H91	0.47	1.85	7	1
1:A:71:ASP:OD1	1:A:198:HIS:CE1	0.47	2.68	8	1
4:A:374:PX4:H13	4:A:423:PX4:O8	0.47	2.09	14	1
4:A:392:PX4:H21	4:A:427:PX4:H60	0.47	1.86	14	1
4:A:317:PX4:H43	4:A:361:PX4:H59	0.47	1.86	16	1
4:A:319:PX4:O1	4:A:352:PX4:H3	0.47	2.09	17	1
4:A:308:PX4:H61	4:A:326:PX4:H57	0.47	1.87	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:343:PX4:H65	4:A:350:PX4:H25	0.47	1.85	1	1
4:A:373:PX4:H46	4:A:410:PX4:H10	0.47	1.87	5	1
4:A:380:PX4:H50	4:A:420:PX4:H22	0.47	1.87	7	1
4:A:334:PX4:H60	4:A:334:PX4:H33	0.47	1.86	9	1
4:A:312:PX4:H68	4:A:402:PX4:H38	0.47	1.87	10	1
4:A:404:PX4:H35	4:A:418:PX4:H38	0.47	1.84	10	1
4:A:306:PX4:H20	4:A:358:PX4:H15	0.47	1.87	11	1
4:A:428:PX4:H63	4:A:430:PX4:H32	0.47	1.86	11	1
4:A:372:PX4:H44	4:A:426:PX4:H70	0.47	1.85	17	1
4:A:390:PX4:H36	4:A:421:PX4:H23	0.47	1.84	18	1
4:A:347:PX4:H36	4:A:413:PX4:H40	0.47	1.85	1	1
4:A:307:PX4:H34	4:A:337:PX4:H36	0.47	1.86	3	1
4:A:375:PX4:H64	4:A:384:PX4:H28	0.47	1.85	5	1
4:A:307:PX4:H46	4:A:332:PX4:H6	0.47	1.87	7	1
4:A:327:PX4:H48	4:A:338:PX4:H58	0.47	1.87	8	1
4:A:404:PX4:H36	4:A:417:PX4:C13	0.47	2.39	8	1
4:A:368:PX4:H33	4:A:388:PX4:H65	0.47	1.85	9	1
4:A:315:PX4:O6	4:A:332:PX4:H2	0.47	2.10	12	1
4:A:321:PX4:H71	4:A:357:PX4:H29	0.47	1.86	12	1
4:A:322:PX4:H47	4:A:337:PX4:H17	0.47	1.87	16	1
4:A:377:PX4:H23	4:A:408:PX4:H23	0.47	1.87	18	1
4:A:318:PX4:H16	4:A:321:PX4:H51	0.46	1.87	1	1
4:A:404:PX4:H20	4:A:418:PX4:H58	0.46	1.85	1	1
4:A:404:PX4:H20	4:A:423:PX4:H27	0.46	1.87	6	1
4:A:395:PX4:H64	4:A:395:PX4:H37	0.46	1.86	7	1
4:A:325:PX4:H10	4:A:361:PX4:O2	0.46	2.10	8	1
4:A:351:PX4:H66	4:A:387:PX4:H45	0.46	1.86	8	1
4:A:338:PX4:H43	4:A:411:PX4:H51	0.46	1.87	9	1
4:A:372:PX4:H4	4:A:410:PX4:O2	0.46	2.09	10	1
4:A:315:PX4:H19	4:A:337:PX4:H62	0.46	1.87	12	1
4:A:317:PX4:H59	4:A:337:PX4:H59	0.46	1.87	14	1
4:A:329:PX4:C17	4:A:360:PX4:H33	0.46	2.40	14	1
4:A:418:PX4:H71	4:A:421:PX4:H23	0.46	1.87	14	1
4:A:375:PX4:H51	4:A:405:PX4:H17	0.46	1.87	16	1
4:A:345:PX4:H30	4:A:349:PX4:H58	0.46	1.86	18	1
4:A:315:PX4:H70	4:A:321:PX4:H36	0.46	1.87	19	1
4:A:306:PX4:O8	4:A:306:PX4:H15	0.46	2.09	20	1
4:A:397:PX4:H39	4:A:424:PX4:H42	0.46	1.85	20	1
4:A:330:PX4:H35	4:A:337:PX4:H57	0.46	1.87	3	1
1:A:71:ASP:OD1	1:A:204:HIS:CD2	0.46	2.68	4	1
1:A:118:LYS:O	4:A:351:PX4:H3	0.46	2.10	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:370:PX4:H27	4:A:383:PX4:H51	0.46	1.85	6	1
4:A:307:PX4:H39	4:A:338:PX4:H64	0.46	1.87	8	1
4:A:308:PX4:H33	4:A:350:PX4:H58	0.46	1.86	8	1
1:A:129:TRP:HB3	4:A:316:PX4:H55	0.46	1.87	9	1
4:A:370:PX4:H38	4:A:394:PX4:H32	0.46	1.85	9	1
4:A:395:PX4:H13	4:A:401:PX4:H49	0.46	1.88	9	1
4:A:309:PX4:H29	4:A:359:PX4:H36	0.46	1.86	12	1
4:A:384:PX4:H56	4:A:392:PX4:H56	0.46	1.87	13	1
4:A:309:PX4:H22	4:A:345:PX4:H60	0.46	1.85	16	1
4:A:413:PX4:H20	4:A:429:PX4:H21	0.46	1.86	17	1
4:A:312:PX4:H43	4:A:388:PX4:H54	0.46	1.86	1	1
4:A:399:PX4:H39	4:A:424:PX4:H32	0.46	1.87	1	1
4:A:308:PX4:H15	4:A:320:PX4:H12	0.46	1.86	4	1
4:A:376:PX4:H17	4:A:388:PX4:C10	0.46	2.40	4	1
4:A:308:PX4:H41	4:A:350:PX4:H27	0.46	1.87	7	1
1:A:36:GLU:OE2	1:A:40:LYS:NZ	0.46	2.48	9	1
4:A:330:PX4:H54	4:A:362:PX4:H30	0.46	1.87	9	1
4:A:340:PX4:H13	5:A:432:C3S:H91	0.46	1.87	13	1
4:A:404:PX4:O3	4:A:404:PX4:H9	0.46	2.10	13	1
4:A:321:PX4:H58	4:A:352:PX4:H38	0.46	1.87	19	1
4:A:371:PX4:H57	4:A:389:PX4:H17	0.46	1.87	2	1
4:A:307:PX4:H3	4:A:322:PX4:O3	0.46	2.10	3	1
4:A:409:PX4:H22	4:A:412:PX4:H20	0.46	1.88	3	1
4:A:371:PX4:H47	4:A:389:PX4:H46	0.46	1.87	8	1
4:A:325:PX4:H34	4:A:362:PX4:H68	0.46	1.87	9	1
4:A:370:PX4:H34	4:A:383:PX4:H33	0.46	1.86	13	1
4:A:325:PX4:H37	4:A:430:PX4:H43	0.46	1.87	15	1
4:A:400:PX4:H21	4:A:405:PX4:H19	0.46	1.87	15	1
4:A:366:PX4:H17	4:A:403:PX4:H28	0.46	1.86	18	1
4:A:328:PX4:H43	4:A:358:PX4:H36	0.46	1.88	19	1
4:A:369:PX4:H52	4:A:419:PX4:H54	0.46	1.87	20	1
4:A:350:PX4:H44	4:A:395:PX4:H29	0.46	1.86	2	1
4:A:394:PX4:H59	4:A:396:PX4:H67	0.46	1.85	2	1
4:A:313:PX4:H68	4:A:323:PX4:H57	0.46	1.85	3	1
4:A:376:PX4:H57	4:A:388:PX4:H35	0.46	1.86	4	1
4:A:371:PX4:H3	4:A:373:PX4:O1	0.46	2.10	11	1
4:A:375:PX4:H53	4:A:384:PX4:H55	0.46	1.87	11	1
4:A:325:PX4:H19	4:A:355:PX4:H17	0.46	1.86	16	1
4:A:328:PX4:H8	4:A:349:PX4:O8	0.46	2.10	16	1
4:A:328:PX4:H36	4:A:361:PX4:H34	0.46	1.88	16	1
4:A:417:PX4:H21	4:A:418:PX4:H32	0.46	1.86	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:313:PX4:H55	4:A:325:PX4:H55	0.46	1.86	20	1
4:A:338:PX4:O1	4:A:351:PX4:H7	0.46	2.11	20	1
4:A:371:PX4:H14	4:A:373:PX4:H18	0.46	1.87	20	1
4:A:306:PX4:H22	4:A:342:PX4:H15	0.46	1.88	2	1
4:A:311:PX4:H40	4:A:339:PX4:H51	0.46	1.88	2	1
4:A:327:PX4:H20	4:A:348:PX4:H20	0.46	1.87	2	1
4:A:377:PX4:H54	4:A:422:PX4:H25	0.46	1.86	3	1
4:A:313:PX4:H46	4:A:329:PX4:H17	0.46	1.88	12	1
1:A:7:MET:SD	1:A:54:LEU:HD22	0.46	2.51	13	1
4:A:370:PX4:H31	4:A:383:PX4:H51	0.46	1.87	16	1
4:A:386:PX4:H27	4:A:402:PX4:H53	0.46	1.88	18	1
4:A:398:PX4:H33	4:A:411:PX4:H54	0.46	1.88	20	1
4:A:306:PX4:H54	4:A:359:PX4:C27	0.46	2.40	4	1
4:A:325:PX4:H39	4:A:326:PX4:H25	0.46	1.88	5	1
4:A:396:PX4:H16	4:A:407:PX4:H52	0.46	1.88	5	1
4:A:316:PX4:O2	4:A:321:PX4:H11	0.46	2.11	6	1
4:A:404:PX4:O2	4:A:404:PX4:H13	0.46	2.11	6	1
4:A:306:PX4:H58	4:A:342:PX4:H36	0.46	1.88	11	1
4:A:384:PX4:O3	4:A:401:PX4:H5	0.46	2.10	12	1
4:A:340:PX4:H12	5:A:432:C3S:H91	0.46	1.88	14	1
4:A:319:PX4:H36	4:A:425:PX4:H70	0.46	1.88	17	1
4:A:336:PX4:H68	4:A:412:PX4:H37	0.46	1.87	17	1
4:A:388:PX4:H47	4:A:391:PX4:H51	0.46	1.88	17	1
4:A:429:PX4:H53	4:A:430:PX4:H20	0.46	1.88	18	1
4:A:366:PX4:H55	4:A:403:PX4:H47	0.46	1.87	20	1
4:A:320:PX4:H51	4:A:334:PX4:H15	0.46	1.87	1	1
4:A:365:PX4:H30	4:A:430:PX4:H33	0.46	1.87	2	1
4:A:366:PX4:H52	4:A:378:PX4:H26	0.46	1.87	6	1
4:A:386:PX4:O6	4:A:402:PX4:H20	0.46	2.11	7	1
4:A:318:PX4:H28	4:A:321:PX4:H54	0.46	1.87	9	1
4:A:400:PX4:H16	4:A:401:PX4:H46	0.46	1.88	10	1
4:A:324:PX4:H49	4:A:324:PX4:H24	0.46	1.88	16	1
4:A:336:PX4:H14	4:A:336:PX4:H2	0.46	1.87	16	1
4:A:338:PX4:H28	4:A:354:PX4:H48	0.46	1.88	17	1
4:A:305:PX4:H55	4:A:311:PX4:H39	0.46	1.88	18	1
1:A:222:GLN:O	4:A:317:PX4:H11	0.46	2.10	19	1
4:A:417:PX4:H7	4:A:418:PX4:H21	0.46	1.87	19	1
4:A:406:PX4:O1	4:A:410:PX4:H10	0.46	2.11	10	2
4:A:305:PX4:H51	4:A:324:PX4:H72	0.46	1.88	7	1
4:A:387:PX4:H67	4:A:421:PX4:H35	0.46	1.87	8	1
1:A:111:LYS:HE3	4:A:315:PX4:H15	0.46	1.88	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:393:PX4:H50	4:A:419:PX4:H19	0.46	1.87	12	1
4:A:413:PX4:H49	4:A:429:PX4:H23	0.46	1.86	16	1
4:A:322:PX4:H8	4:A:337:PX4:H2	0.46	1.88	18	1
4:A:399:PX4:H26	4:A:410:PX4:H32	0.46	1.88	1	1
4:A:357:PX4:H3	4:A:363:PX4:O6	0.46	2.11	2	1
4:A:414:PX4:H9	4:A:426:PX4:O6	0.46	2.11	3	1
4:A:424:PX4:O8	4:A:424:PX4:H15	0.46	2.11	5	1
4:A:340:PX4:H63	4:A:364:PX4:H38	0.46	1.88	7	1
4:A:329:PX4:H51	4:A:355:PX4:H60	0.46	1.88	12	1
4:A:320:PX4:H59	4:A:334:PX4:H54	0.46	1.87	13	1
4:A:348:PX4:H31	4:A:359:PX4:H31	0.46	1.88	13	1
4:A:393:PX4:H27	4:A:419:PX4:H54	0.46	1.87	17	1
4:A:327:PX4:H24	4:A:348:PX4:H26	0.46	1.88	18	1
4:A:370:PX4:H60	4:A:381:PX4:H35	0.46	1.87	18	1
4:A:406:PX4:H44	4:A:410:PX4:H65	0.46	1.86	20	1
4:A:391:PX4:H60	4:A:427:PX4:H40	0.45	1.88	2	1
1:A:184:LEU:HD21	4:A:349:PX4:H12	0.45	1.87	3	1
4:A:365:PX4:H26	4:A:369:PX4:H23	0.45	1.86	3	1
4:A:367:PX4:H33	4:A:389:PX4:H30	0.45	1.88	5	1
4:A:377:PX4:H29	4:A:377:PX4:H54	0.45	1.88	5	1
4:A:322:PX4:H50	4:A:331:PX4:H20	0.45	1.86	6	1
4:A:325:PX4:H23	4:A:355:PX4:H48	0.45	1.88	6	1
4:A:389:PX4:H62	4:A:394:PX4:H42	0.45	1.88	6	1
4:A:311:PX4:H69	4:A:364:PX4:H69	0.45	1.87	7	1
4:A:333:PX4:H27	4:A:340:PX4:H30	0.45	1.89	7	1
4:A:352:PX4:H35	4:A:392:PX4:H65	0.45	1.87	10	1
4:A:308:PX4:H36	4:A:373:PX4:H43	0.45	1.87	16	1
4:A:337:PX4:H30	4:A:341:PX4:H25	0.45	1.87	16	1
4:A:377:PX4:H27	4:A:408:PX4:H28	0.45	1.87	18	1
4:A:308:PX4:H26	4:A:326:PX4:H58	0.45	1.88	19	1
4:A:384:PX4:O4	4:A:405:PX4:H5	0.45	2.10	19	1
4:A:382:PX4:H62	4:A:397:PX4:H40	0.45	1.88	2	1
4:A:306:PX4:C9	4:A:342:PX4:H14	0.45	2.41	3	1
4:A:376:PX4:H16	4:A:390:PX4:H47	0.45	1.87	3	1
4:A:420:PX4:H20	4:A:422:PX4:H16	0.45	1.89	15	1
4:A:342:PX4:H38	4:A:357:PX4:H37	0.45	1.88	17	1
4:A:392:PX4:H9	4:A:405:PX4:H15	0.45	1.87	17	1
4:A:342:PX4:H54	4:A:357:PX4:H37	0.45	1.89	18	1
1:A:90:THR:HG21	4:A:321:PX4:H1	0.45	1.87	20	1
4:A:318:PX4:H11	4:A:321:PX4:O8	0.45	2.12	2	1
4:A:312:PX4:H26	4:A:324:PX4:H22	0.45	1.89	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:375:PX4:H22	4:A:407:PX4:H19	0.45	1.88	7	1
4:A:382:PX4:H17	4:A:423:PX4:H20	0.45	1.88	7	1
4:A:375:PX4:H17	4:A:392:PX4:O1	0.45	2.12	9	1
4:A:309:PX4:H6	4:A:328:PX4:O6	0.45	2.11	19	2
4:A:404:PX4:H26	4:A:418:PX4:H20	0.45	1.89	10	1
4:A:386:PX4:H27	4:A:417:PX4:H55	0.45	1.88	11	1
4:A:379:PX4:H26	5:A:434:C3S:H152	0.45	1.87	14	1
4:A:320:PX4:H61	4:A:334:PX4:H67	0.45	1.88	15	1
4:A:397:PX4:H21	4:A:411:PX4:H16	0.45	1.88	15	1
4:A:316:PX4:H35	4:A:321:PX4:H53	0.45	1.88	16	1
4:A:375:PX4:H61	4:A:379:PX4:H42	0.45	1.86	17	1
4:A:370:PX4:O1	4:A:383:PX4:H11	0.45	2.12	18	1
4:A:371:PX4:H32	4:A:395:PX4:H27	0.45	1.89	1	1
4:A:316:PX4:O2	4:A:318:PX4:H4	0.45	2.12	2	1
4:A:375:PX4:H68	4:A:384:PX4:H31	0.45	1.86	2	1
4:A:368:PX4:H43	4:A:426:PX4:H29	0.45	1.86	5	1
4:A:368:PX4:H57	4:A:426:PX4:H55	0.45	1.87	9	1
4:A:377:PX4:H23	4:A:408:PX4:H54	0.45	1.87	10	1
4:A:345:PX4:H63	4:A:358:PX4:H56	0.45	1.88	11	1
4:A:327:PX4:H35	4:A:327:PX4:H55	0.45	1.89	13	1
4:A:336:PX4:H27	4:A:354:PX4:H34	0.45	1.89	13	1
4:A:382:PX4:H64	4:A:415:PX4:H59	0.45	1.88	13	1
4:A:374:PX4:H34	4:A:397:PX4:H69	0.45	1.88	18	1
4:A:365:PX4:O6	4:A:369:PX4:H10	0.45	2.11	19	1
4:A:345:PX4:H71	4:A:419:PX4:H66	0.45	1.87	20	1
4:A:369:PX4:H5	4:A:370:PX4:O6	0.45	2.11	20	1
4:A:383:PX4:H71	4:A:407:PX4:H30	0.45	1.89	1	1
4:A:397:PX4:H31	4:A:398:PX4:H36	0.45	1.88	1	1
4:A:368:PX4:H3	4:A:372:PX4:O1	0.45	2.12	5	2
4:A:307:PX4:O2	4:A:322:PX4:H9	0.45	2.12	6	1
4:A:350:PX4:H40	4:A:371:PX4:H44	0.45	1.89	7	1
4:A:373:PX4:H59	4:A:414:PX4:H32	0.45	1.89	7	1
1:A:123:HIS:CE1	4:A:348:PX4:H21	0.45	2.46	15	2
4:A:374:PX4:H25	4:A:423:PX4:H21	0.45	1.88	11	1
4:A:350:PX4:H70	4:A:402:PX4:H70	0.45	1.87	12	1
4:A:391:PX4:H19	4:A:408:PX4:H53	0.45	1.88	12	1
4:A:323:PX4:H42	4:A:345:PX4:H37	0.45	1.89	14	1
4:A:375:PX4:O2	4:A:427:PX4:H2	0.45	2.12	14	1
4:A:384:PX4:O3	4:A:384:PX4:H12	0.45	2.10	14	1
4:A:351:PX4:H67	4:A:429:PX4:H38	0.45	1.89	20	1
4:A:322:PX4:H67	4:A:322:PX4:H29	0.45	1.88	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:373:PX4:H37	4:A:400:PX4:H44	0.45	1.88	2	1
4:A:403:PX4:H3	4:A:417:PX4:O6	0.45	2.12	3	1
4:A:391:PX4:H27	4:A:407:PX4:H27	0.45	1.89	4	1
4:A:370:PX4:H32	4:A:383:PX4:H25	0.45	1.87	5	1
4:A:409:PX4:H43	4:A:429:PX4:H37	0.45	1.89	9	1
4:A:350:PX4:H60	4:A:395:PX4:H44	0.45	1.87	10	1
4:A:310:PX4:H50	4:A:333:PX4:H53	0.45	1.88	14	1
4:A:316:PX4:H70	4:A:340:PX4:H60	0.45	1.87	1	1
4:A:331:PX4:H40	4:A:337:PX4:H17	0.45	1.88	2	1
4:A:318:PX4:H24	4:A:342:PX4:H48	0.45	1.89	5	1
4:A:362:PX4:H41	4:A:424:PX4:H42	0.45	1.88	8	1
4:A:401:PX4:H67	4:A:401:PX4:H38	0.45	1.89	8	1
4:A:338:PX4:H16	4:A:344:PX4:H48	0.45	1.88	9	1
4:A:308:PX4:H17	4:A:326:PX4:H51	0.45	1.88	10	1
4:A:326:PX4:H63	5:A:431:C3S:H442	0.45	1.88	11	1
4:A:378:PX4:H53	4:A:426:PX4:H14	0.45	1.89	13	1
4:A:317:PX4:H43	4:A:361:PX4:C30	0.45	2.42	16	1
4:A:366:PX4:H19	4:A:417:PX4:H20	0.45	1.88	16	1
4:A:305:PX4:H42	4:A:372:PX4:H40	0.45	1.88	18	1
4:A:324:PX4:H40	4:A:426:PX4:H31	0.45	1.87	19	1
4:A:308:PX4:H61	4:A:326:PX4:C29	0.45	2.41	20	1
4:A:335:PX4:H37	4:A:360:PX4:H36	0.45	1.88	20	1
4:A:341:PX4:H8	4:A:356:PX4:O6	0.45	2.12	20	1
4:A:326:PX4:H69	4:A:361:PX4:H41	0.45	1.87	3	1
4:A:327:PX4:H21	4:A:348:PX4:C11	0.45	2.36	4	1
4:A:333:PX4:O6	4:A:340:PX4:H4	0.45	2.12	4	1
4:A:389:PX4:H45	4:A:405:PX4:H34	0.45	1.88	4	1
4:A:428:PX4:H21	4:A:428:PX4:H54	0.45	1.88	4	1
4:A:411:PX4:H46	4:A:424:PX4:H47	0.45	1.88	8	1
4:A:328:PX4:H40	4:A:360:PX4:H35	0.45	1.89	9	1
4:A:368:PX4:H40	4:A:391:PX4:H35	0.45	1.87	9	1
4:A:323:PX4:H48	4:A:361:PX4:H19	0.45	1.88	10	1
4:A:365:PX4:H62	4:A:376:PX4:H28	0.45	1.88	16	1
4:A:391:PX4:O2	4:A:414:PX4:H8	0.45	2.11	18	1
4:A:308:PX4:H28	4:A:334:PX4:H34	0.45	1.88	2	1
4:A:370:PX4:H12	4:A:397:PX4:H46	0.45	1.88	3	1
4:A:375:PX4:H17	4:A:405:PX4:H4	0.45	1.89	10	1
4:A:333:PX4:H33	4:A:340:PX4:H34	0.45	1.89	12	1
4:A:386:PX4:H31	4:A:417:PX4:H51	0.45	1.89	12	1
4:A:386:PX4:O6	4:A:417:PX4:H17	0.45	2.12	14	1
4:A:346:PX4:H32	4:A:361:PX4:H65	0.45	1.87	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:375:PX4:C11	4:A:400:PX4:H62	0.45	2.42	19	1
1:A:96:TYR:CD2	1:A:102:HIS:HA	0.45	2.47	6	1
4:A:353:PX4:H56	4:A:378:PX4:C22	0.45	2.42	8	1
4:A:366:PX4:H40	4:A:368:PX4:H40	0.45	1.89	8	1
4:A:420:PX4:O8	4:A:420:PX4:H10	0.45	2.11	9	1
4:A:310:PX4:H22	4:A:311:PX4:H17	0.45	1.89	10	1
4:A:324:PX4:H55	4:A:334:PX4:H55	0.45	1.88	11	1
4:A:315:PX4:H37	4:A:327:PX4:H66	0.45	1.89	12	1
4:A:367:PX4:H29	4:A:399:PX4:H25	0.45	1.89	13	1
4:A:369:PX4:H58	4:A:428:PX4:H36	0.45	1.89	14	1
4:A:392:PX4:H62	4:A:422:PX4:H56	0.45	1.88	14	1
4:A:305:PX4:H47	4:A:312:PX4:H61	0.45	1.89	15	1
4:A:309:PX4:O6	4:A:351:PX4:H18	0.45	2.11	15	1
4:A:365:PX4:H6	4:A:383:PX4:O2	0.45	2.12	15	1
4:A:320:PX4:H25	4:A:332:PX4:H42	0.45	1.88	18	1
4:A:405:PX4:H17	4:A:405:PX4:H7	0.44	1.89	1	1
4:A:306:PX4:H59	4:A:321:PX4:H17	0.44	1.89	8	1
4:A:395:PX4:O4	4:A:401:PX4:H16	0.44	2.12	11	1
4:A:308:PX4:H16	4:A:320:PX4:H17	0.44	1.90	15	1
4:A:316:PX4:H25	4:A:342:PX4:H38	0.44	1.89	16	1
4:A:384:PX4:H47	4:A:389:PX4:H26	0.44	1.89	17	1
4:A:400:PX4:O6	4:A:405:PX4:H10	0.44	2.13	18	1
4:A:400:PX4:H59	4:A:405:PX4:H21	0.44	1.89	19	1
4:A:369:PX4:H24	4:A:374:PX4:H51	0.44	1.88	20	1
4:A:307:PX4:H11	4:A:337:PX4:O2	0.44	2.12	3	1
4:A:371:PX4:H23	4:A:402:PX4:H23	0.44	1.89	3	1
4:A:338:PX4:H46	4:A:351:PX4:H48	0.44	1.89	10	1
4:A:391:PX4:H35	4:A:427:PX4:H65	0.44	1.89	10	1
4:A:343:PX4:H16	4:A:343:PX4:O6	0.44	2.12	11	1
4:A:378:PX4:H55	4:A:386:PX4:H30	0.44	1.89	11	1
4:A:328:PX4:H58	4:A:347:PX4:H26	0.44	1.89	12	1
4:A:366:PX4:O6	4:A:417:PX4:H5	0.44	2.11	14	1
4:A:395:PX4:O1	4:A:402:PX4:H4	0.44	2.12	14	1
4:A:391:PX4:H31	4:A:408:PX4:H61	0.44	1.89	15	1
4:A:333:PX4:H17	4:A:333:PX4:H51	0.44	1.89	16	1
4:A:317:PX4:H21	4:A:326:PX4:H20	0.44	1.87	17	1
4:A:398:PX4:H38	4:A:411:PX4:H67	0.44	1.89	20	1
4:A:342:PX4:O4	4:A:358:PX4:H10	0.44	2.12	1	1
4:A:382:PX4:H17	4:A:415:PX4:H46	0.44	1.88	2	1
4:A:369:PX4:O8	4:A:419:PX4:H8	0.44	2.12	4	1
4:A:396:PX4:H20	4:A:407:PX4:H14	0.44	1.89	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:412:PX4:H54	4:A:424:PX4:H51	0.44	1.89	6	1
4:A:340:PX4:H62	4:A:356:PX4:H34	0.44	1.89	8	1
4:A:409:PX4:H69	4:A:411:PX4:H27	0.44	1.89	8	1
4:A:411:PX4:H9	4:A:411:PX4:H14	0.44	1.89	8	1
4:A:309:PX4:H22	4:A:345:PX4:H57	0.44	1.89	9	1
4:A:380:PX4:H39	4:A:422:PX4:H66	0.44	1.87	10	1
4:A:318:PX4:H31	4:A:321:PX4:H49	0.44	1.89	14	1
4:A:323:PX4:H21	4:A:328:PX4:H23	0.44	1.88	14	1
4:A:307:PX4:O2	4:A:322:PX4:H7	0.44	2.12	16	1
4:A:361:PX4:H52	4:A:402:PX4:H43	0.44	1.89	17	1
4:A:320:PX4:H41	4:A:381:PX4:H61	0.44	1.88	18	1
4:A:367:PX4:O6	4:A:399:PX4:H17	0.44	2.12	18	1
4:A:375:PX4:H19	4:A:392:PX4:H10	0.44	1.90	18	1
4:A:345:PX4:H16	4:A:349:PX4:H51	0.44	1.88	19	1
4:A:393:PX4:H57	4:A:413:PX4:H32	0.44	1.89	1	1
4:A:327:PX4:H25	4:A:338:PX4:H62	0.44	1.89	2	1
4:A:309:PX4:H59	4:A:359:PX4:H34	0.44	1.89	7	1
4:A:341:PX4:H48	4:A:356:PX4:H23	0.44	1.87	9	1
4:A:368:PX4:H54	4:A:406:PX4:H29	0.44	1.90	11	1
4:A:328:PX4:H47	4:A:347:PX4:H14	0.44	1.88	13	2
4:A:331:PX4:O2	4:A:337:PX4:H11	0.44	2.11	13	1
4:A:404:PX4:H16	4:A:418:PX4:H47	0.44	1.89	15	1
4:A:330:PX4:H59	4:A:337:PX4:H31	0.44	1.89	17	1
4:A:312:PX4:H66	4:A:363:PX4:H72	0.44	1.90	1	1
4:A:306:PX4:H62	4:A:348:PX4:H37	0.44	1.88	7	1
1:A:181:GLY:O	4:A:361:PX4:H10	0.44	2.13	9	1
4:A:323:PX4:H58	4:A:347:PX4:H31	0.44	1.90	9	1
4:A:334:PX4:H27	4:A:414:PX4:H66	0.44	1.89	9	1
4:A:371:PX4:H39	4:A:373:PX4:H32	0.44	1.89	9	1
4:A:411:PX4:H25	4:A:424:PX4:H60	0.44	1.88	9	1
4:A:372:PX4:H54	4:A:398:PX4:H71	0.44	1.89	12	1
4:A:308:PX4:H51	4:A:326:PX4:H62	0.44	1.89	13	1
4:A:314:PX4:H23	4:A:352:PX4:O6	0.44	2.13	13	1
4:A:390:PX4:H49	4:A:403:PX4:H52	0.44	1.89	14	1
4:A:310:PX4:H64	4:A:356:PX4:H44	0.44	1.90	15	1
4:A:307:PX4:H64	4:A:327:PX4:H36	0.44	1.88	16	1
4:A:371:PX4:H48	4:A:373:PX4:H16	0.44	1.87	16	1
4:A:389:PX4:H16	4:A:399:PX4:H50	0.44	1.89	16	1
4:A:408:PX4:H69	4:A:426:PX4:H20	0.44	1.90	16	1
4:A:394:PX4:H29	4:A:395:PX4:H54	0.44	1.87	17	1
4:A:328:PX4:H26	4:A:347:PX4:H24	0.44	1.90	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:354:PX4:H48	4:A:357:PX4:H49	0.44	1.90	3	1
4:A:387:PX4:H28	4:A:418:PX4:C30	0.44	2.43	3	1
4:A:305:PX4:H32	4:A:310:PX4:H30	0.44	1.89	4	1
4:A:393:PX4:H22	4:A:416:PX4:H23	0.44	1.89	4	1
4:A:326:PX4:H62	4:A:361:PX4:H30	0.44	1.88	6	1
4:A:343:PX4:O1	4:A:356:PX4:H5	0.44	2.13	6	1
4:A:371:PX4:H17	4:A:401:PX4:O6	0.44	2.13	6	1
4:A:371:PX4:H35	4:A:395:PX4:H35	0.44	1.89	9	1
4:A:402:PX4:H8	4:A:417:PX4:O1	0.44	2.12	11	1
4:A:423:PX4:H72	4:A:429:PX4:H65	0.44	1.88	12	1
4:A:374:PX4:H34	4:A:423:PX4:H58	0.44	1.90	13	1
4:A:385:PX4:H17	4:A:415:PX4:H20	0.44	1.88	13	1
4:A:388:PX4:H8	4:A:391:PX4:O6	0.44	2.12	13	1
4:A:320:PX4:H36	4:A:334:PX4:H40	0.44	1.88	14	1
4:A:384:PX4:H62	5:A:434:C3S:C60	0.44	2.42	14	1
4:A:400:PX4:H14	4:A:401:PX4:O2	0.44	2.12	14	1
4:A:387:PX4:O6	4:A:421:PX4:H20	0.44	2.13	16	1
4:A:330:PX4:H16	4:A:337:PX4:H19	0.44	1.90	19	1
4:A:428:PX4:H16	4:A:429:PX4:H50	0.44	1.89	19	1
4:A:338:PX4:H6	4:A:344:PX4:O6	0.44	2.13	20	1
4:A:389:PX4:H66	4:A:400:PX4:H38	0.44	1.88	20	1
4:A:307:PX4:H29	4:A:307:PX4:H62	0.44	1.88	1	1
4:A:397:PX4:H54	4:A:430:PX4:H21	0.44	1.90	1	1
1:A:83:LYS:HG2	1:A:238:TYR:CE1	0.44	2.48	2	1
1:A:101:PRO:HG3	4:A:334:PX4:H1	0.44	1.88	2	1
4:A:326:PX4:H72	4:A:417:PX4:H64	0.44	1.90	4	1
4:A:383:PX4:H68	4:A:396:PX4:H60	0.44	1.87	4	1
4:A:323:PX4:H46	4:A:325:PX4:H15	0.44	1.88	5	1
4:A:336:PX4:C36	4:A:409:PX4:H31	0.44	2.42	5	1
4:A:395:PX4:H68	4:A:405:PX4:H37	0.44	1.88	11	1
4:A:314:PX4:H27	4:A:352:PX4:H22	0.44	1.90	13	1
4:A:382:PX4:H61	4:A:423:PX4:H36	0.44	1.88	13	1
4:A:428:PX4:H28	4:A:429:PX4:H36	0.44	1.89	14	1
4:A:381:PX4:H20	4:A:394:PX4:H53	0.44	1.88	17	1
4:A:399:PX4:H48	4:A:399:PX4:H22	0.44	1.88	19	1
4:A:306:PX4:H34	4:A:358:PX4:H52	0.44	1.89	1	1
4:A:372:PX4:H56	4:A:398:PX4:H57	0.44	1.90	1	1
4:A:397:PX4:H36	4:A:404:PX4:H70	0.44	1.89	3	1
4:A:377:PX4:H50	4:A:408:PX4:H23	0.44	1.88	5	1
4:A:404:PX4:O1	4:A:418:PX4:H12	0.44	2.12	6	1
4:A:333:PX4:H34	4:A:340:PX4:H57	0.44	1.89	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:332:PX4:H72	4:A:388:PX4:H43	0.44	1.88	8	1
4:A:359:PX4:H69	4:A:383:PX4:H61	0.44	1.90	8	1
4:A:394:PX4:H21	4:A:401:PX4:H50	0.44	1.90	8	1
4:A:317:PX4:H59	4:A:332:PX4:H25	0.44	1.90	9	1
4:A:343:PX4:H59	4:A:350:PX4:H66	0.44	1.89	9	1
1:A:128:VAL:CG2	4:A:315:PX4:H72	0.44	2.41	10	1
4:A:322:PX4:H62	4:A:369:PX4:H38	0.44	1.89	10	1
4:A:369:PX4:H65	4:A:429:PX4:H65	0.44	1.90	10	1
4:A:337:PX4:H36	4:A:355:PX4:H36	0.44	1.89	12	1
4:A:398:PX4:H10	5:A:435:C3S:O2	0.44	2.12	12	1
4:A:428:PX4:H33	4:A:429:PX4:H35	0.44	1.88	12	1
4:A:317:PX4:H65	4:A:330:PX4:H45	0.44	1.89	14	1
4:A:327:PX4:H68	4:A:338:PX4:H24	0.44	1.88	15	1
4:A:336:PX4:H36	4:A:354:PX4:H64	0.44	1.90	1	1
4:A:322:PX4:H50	4:A:331:PX4:C10	0.44	2.42	6	1
4:A:308:PX4:H32	4:A:315:PX4:H34	0.44	1.89	9	1
4:A:370:PX4:H57	4:A:374:PX4:H48	0.44	1.88	10	1
4:A:389:PX4:H38	4:A:389:PX4:H31	0.44	1.48	10	1
4:A:388:PX4:H47	4:A:390:PX4:H51	0.44	1.89	11	1
4:A:312:PX4:H21	4:A:324:PX4:H9	0.44	1.88	13	1
4:A:404:PX4:H32	4:A:423:PX4:H35	0.44	1.89	13	1
4:A:349:PX4:H33	4:A:361:PX4:H56	0.44	1.90	14	1
4:A:306:PX4:H61	4:A:332:PX4:H61	0.44	1.90	16	1
4:A:340:PX4:H32	4:A:389:PX4:H71	0.44	1.90	17	1
4:A:365:PX4:H66	4:A:388:PX4:H42	0.44	1.90	18	1
4:A:306:PX4:H57	4:A:342:PX4:H26	0.43	1.90	1	1
4:A:338:PX4:O3	4:A:347:PX4:H5	0.43	2.13	3	1
4:A:343:PX4:O4	4:A:350:PX4:H9	0.43	2.12	3	1
4:A:328:PX4:H53	4:A:347:PX4:H54	0.43	1.90	6	1
4:A:385:PX4:H63	4:A:415:PX4:H38	0.43	1.88	6	1
4:A:404:PX4:H69	4:A:423:PX4:H36	0.43	1.90	7	1
4:A:368:PX4:H24	5:A:436:C3S:H502	0.43	1.89	8	1
4:A:320:PX4:H30	4:A:326:PX4:H41	0.43	1.89	9	1
4:A:386:PX4:H36	4:A:386:PX4:H60	0.43	1.89	9	1
4:A:314:PX4:H16	4:A:336:PX4:H22	0.43	1.88	11	1
4:A:321:PX4:H29	4:A:343:PX4:H40	0.43	1.89	11	1
4:A:411:PX4:H14	4:A:411:PX4:H7	0.43	1.90	11	1
4:A:365:PX4:H48	4:A:370:PX4:H34	0.43	1.89	15	1
4:A:416:PX4:H25	4:A:416:PX4:H32	0.43	1.62	17	1
4:A:329:PX4:H31	4:A:355:PX4:H63	0.43	1.88	18	1
4:A:316:PX4:H15	4:A:352:PX4:H20	0.43	1.89	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:367:PX4:H16	4:A:399:PX4:H50	0.43	1.89	19	1
4:A:305:PX4:H49	4:A:324:PX4:H59	0.43	1.90	1	1
4:A:335:PX4:H8	4:A:360:PX4:H18	0.43	1.90	1	1
4:A:321:PX4:H46	4:A:342:PX4:H23	0.43	1.89	4	1
4:A:305:PX4:H40	5:A:432:C3S:H693	0.43	1.89	5	1
4:A:376:PX4:H14	4:A:396:PX4:O1	0.43	2.13	5	1
4:A:375:PX4:H38	4:A:427:PX4:H50	0.43	1.90	6	1
4:A:326:PX4:H68	4:A:326:PX4:H42	0.43	1.90	7	1
4:A:366:PX4:H13	4:A:403:PX4:H13	0.43	1.90	8	1
4:A:375:PX4:H39	4:A:427:PX4:H72	0.43	1.90	15	1
1:A:84:TRP:CE2	1:A:162:PRO:HB3	0.43	2.47	16	1
4:A:346:PX4:H6	4:A:346:PX4:O2	0.43	2.13	17	1
4:A:423:PX4:H10	4:A:423:PX4:O3	0.43	2.12	2	1
4:A:338:PX4:H64	4:A:351:PX4:H51	0.43	1.89	3	1
4:A:343:PX4:H31	4:A:352:PX4:H64	0.43	1.90	3	1
1:A:96:TYR:OH	4:A:340:PX4:H3	0.43	2.13	7	1
4:A:309:PX4:H72	4:A:390:PX4:H40	0.43	1.90	7	1
4:A:322:PX4:H43	4:A:362:PX4:H37	0.43	1.90	7	1
4:A:308:PX4:H68	4:A:397:PX4:H66	0.43	1.90	8	1
4:A:371:PX4:H59	4:A:402:PX4:H45	0.43	1.89	8	1
4:A:345:PX4:H17	4:A:358:PX4:H20	0.43	1.89	9	1
4:A:372:PX4:H3	4:A:410:PX4:H15	0.43	1.89	10	1
4:A:374:PX4:H49	4:A:397:PX4:H50	0.43	1.90	13	1
4:A:310:PX4:H24	4:A:311:PX4:H17	0.43	1.89	15	1
4:A:328:PX4:H46	4:A:347:PX4:H48	0.43	1.89	15	1
4:A:325:PX4:H16	4:A:355:PX4:H48	0.43	1.90	18	1
4:A:343:PX4:H26	4:A:343:PX4:H31	0.43	1.53	18	1
4:A:374:PX4:H57	4:A:381:PX4:H54	0.43	1.89	20	1
4:A:334:PX4:H47	5:A:432:C3S:H7	0.43	1.90	1	1
4:A:345:PX4:H66	4:A:383:PX4:H45	0.43	1.89	1	1
4:A:411:PX4:H28	4:A:423:PX4:H56	0.43	1.90	2	1
4:A:383:PX4:H53	4:A:407:PX4:H50	0.43	1.90	3	1
4:A:327:PX4:H55	4:A:348:PX4:H69	0.43	1.89	6	1
4:A:370:PX4:H8	4:A:394:PX4:O2	0.43	2.13	6	1
4:A:305:PX4:H39	4:A:368:PX4:H71	0.43	1.90	10	1
4:A:313:PX4:O6	4:A:355:PX4:H3	0.43	2.14	12	1
4:A:314:PX4:H25	4:A:352:PX4:H22	0.43	1.90	12	1
4:A:328:PX4:H30	4:A:328:PX4:H35	0.43	1.50	12	1
4:A:340:PX4:H25	4:A:340:PX4:H20	0.43	1.56	12	1
4:A:385:PX4:C8	4:A:415:PX4:H20	0.43	2.43	13	1
4:A:383:PX4:H49	4:A:407:PX4:H50	0.43	1.90	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:318:PX4:H25	4:A:321:PX4:H55	0.43	1.90	16	1
4:A:351:PX4:H29	4:A:351:PX4:H36	0.43	1.55	16	1
4:A:390:PX4:H33	4:A:390:PX4:H62	0.43	1.90	16	1
4:A:306:PX4:H56	4:A:342:PX4:H23	0.43	1.90	19	1
4:A:324:PX4:H22	5:A:431:C3S:H262	0.43	1.90	20	1
4:A:342:PX4:H30	4:A:358:PX4:H56	0.43	1.89	20	1
4:A:344:PX4:H38	4:A:354:PX4:H41	0.43	1.90	2	1
4:A:320:PX4:H66	4:A:373:PX4:H44	0.43	1.89	4	1
4:A:324:PX4:H48	5:A:431:C3S:H501	0.43	1.89	4	1
4:A:388:PX4:O6	4:A:407:PX4:H5	0.43	2.14	4	1
4:A:315:PX4:H36	4:A:395:PX4:H45	0.43	1.90	5	1
4:A:312:PX4:H19	4:A:346:PX4:H66	0.43	1.89	6	1
4:A:384:PX4:H15	5:A:434:C3S:H42	0.43	1.89	7	1
4:A:382:PX4:H70	4:A:404:PX4:H45	0.43	1.90	9	1
4:A:393:PX4:H4	4:A:416:PX4:H16	0.43	1.90	10	1
4:A:306:PX4:H52	4:A:359:PX4:H46	0.43	1.89	16	1
4:A:380:PX4:H58	4:A:416:PX4:H51	0.43	1.88	16	1
4:A:335:PX4:O4	4:A:347:PX4:H51	0.43	2.12	17	1
4:A:369:PX4:H35	4:A:370:PX4:H42	0.43	1.89	18	1
4:A:309:PX4:H7	4:A:328:PX4:O1	0.43	2.13	19	1
4:A:389:PX4:H44	4:A:399:PX4:H72	0.43	1.90	1	1
4:A:371:PX4:H29	4:A:401:PX4:H41	0.43	1.91	2	1
4:A:326:PX4:H42	4:A:418:PX4:H33	0.43	1.88	3	1
4:A:316:PX4:H48	4:A:316:PX4:H55	0.43	1.66	4	1
4:A:398:PX4:H25	4:A:411:PX4:H53	0.43	1.89	4	1
4:A:403:PX4:H67	4:A:416:PX4:H40	0.43	1.90	6	1
4:A:389:PX4:H3	4:A:401:PX4:O2	0.43	2.12	7	1
4:A:365:PX4:H17	4:A:383:PX4:H19	0.43	1.90	10	1
4:A:306:PX4:H21	4:A:342:PX4:H19	0.43	1.89	12	1
4:A:316:PX4:C13	4:A:321:PX4:H32	0.43	2.43	14	1
4:A:325:PX4:H32	4:A:353:PX4:H36	0.43	1.89	16	1
4:A:399:PX4:H70	4:A:405:PX4:H45	0.43	1.88	16	1
4:A:312:PX4:H18	4:A:346:PX4:H17	0.43	1.89	17	1
4:A:340:PX4:H47	4:A:356:PX4:H46	0.43	1.91	18	1
4:A:419:PX4:H66	4:A:419:PX4:H60	0.43	1.64	18	1
1:A:104:THR:C	1:A:108:LEU:HD12	0.43	2.34	19	1
4:A:335:PX4:H65	4:A:363:PX4:H66	0.43	1.91	20	1
4:A:355:PX4:H71	4:A:421:PX4:H40	0.43	1.89	20	1
4:A:307:PX4:H68	4:A:369:PX4:H70	0.43	1.90	1	1
1:A:118:LYS:O	4:A:351:PX4:H4	0.43	2.13	2	1
4:A:328:PX4:H67	4:A:335:PX4:H41	0.43	1.90	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:367:PX4:H14	4:A:389:PX4:O4	0.43	2.13	2	1
4:A:377:PX4:H26	4:A:408:PX4:H24	0.43	1.89	2	1
4:A:374:PX4:H3	4:A:397:PX4:H18	0.43	1.91	3	1
4:A:400:PX4:H44	4:A:401:PX4:H18	0.43	1.91	3	1
4:A:381:PX4:H25	4:A:395:PX4:H24	0.43	1.89	5	1
4:A:346:PX4:H42	4:A:376:PX4:H43	0.43	1.90	7	1
4:A:370:PX4:H41	4:A:394:PX4:H48	0.43	1.89	7	1
4:A:408:PX4:H56	4:A:408:PX4:H63	0.43	1.50	9	1
4:A:368:PX4:H54	4:A:406:PX4:H30	0.43	1.90	10	1
4:A:376:PX4:O8	4:A:390:PX4:H7	0.43	2.14	11	1
4:A:308:PX4:O6	4:A:308:PX4:H1	0.43	2.14	12	1
4:A:365:PX4:O8	4:A:396:PX4:H10	0.43	2.13	16	1
1:A:114:ASN:ND2	4:A:332:PX4:H1	0.43	2.29	17	1
4:A:368:PX4:H56	4:A:426:PX4:H66	0.43	1.89	18	1
4:A:317:PX4:H68	4:A:418:PX4:H42	0.43	1.89	19	1
4:A:382:PX4:H19	4:A:398:PX4:H54	0.43	1.91	19	1
4:A:308:PX4:H46	4:A:326:PX4:H48	0.43	1.89	20	1
4:A:354:PX4:H8	4:A:360:PX4:O4	0.43	2.14	1	1
4:A:387:PX4:H22	4:A:416:PX4:H17	0.43	1.90	1	1
4:A:417:PX4:O6	4:A:418:PX4:H49	0.43	2.14	2	1
4:A:371:PX4:H68	4:A:424:PX4:H35	0.43	1.89	3	1
4:A:307:PX4:H53	4:A:338:PX4:H72	0.43	1.89	4	1
4:A:308:PX4:H36	4:A:332:PX4:H40	0.43	1.90	5	1
4:A:351:PX4:H23	4:A:359:PX4:H25	0.43	1.90	5	1
4:A:365:PX4:H22	4:A:419:PX4:H56	0.43	1.91	6	1
4:A:380:PX4:H47	4:A:385:PX4:H23	0.43	1.91	6	1
4:A:319:PX4:H28	4:A:336:PX4:H18	0.43	1.89	8	1
4:A:307:PX4:H43	4:A:411:PX4:H58	0.43	1.89	9	1
4:A:317:PX4:H71	4:A:417:PX4:H45	0.43	1.91	9	1
4:A:428:PX4:H24	4:A:429:PX4:H17	0.43	1.91	15	2
4:A:371:PX4:H4	4:A:373:PX4:H18	0.43	1.90	12	1
4:A:379:PX4:H59	4:A:422:PX4:H65	0.43	1.88	13	1
4:A:371:PX4:H55	4:A:373:PX4:H57	0.43	1.90	14	1
4:A:322:PX4:H71	4:A:429:PX4:H56	0.43	1.90	15	1
1:A:223:ASN:O	4:A:315:PX4:H8	0.43	2.13	18	1
4:A:357:PX4:H49	4:A:363:PX4:H24	0.43	1.91	18	1
4:A:382:PX4:H55	4:A:423:PX4:H22	0.43	1.89	18	1
4:A:320:PX4:H28	4:A:320:PX4:H21	0.43	1.41	3	1
4:A:389:PX4:H72	4:A:389:PX4:H64	0.43	1.46	4	1
4:A:317:PX4:H22	4:A:326:PX4:H16	0.43	1.91	6	1
4:A:357:PX4:H51	4:A:363:PX4:H49	0.43	1.91	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:307:PX4:H46	4:A:332:PX4:C3	0.43	2.44	7	1
4:A:354:PX4:H72	4:A:425:PX4:H37	0.43	1.90	7	1
4:A:331:PX4:H22	4:A:337:PX4:H21	0.43	1.90	8	1
4:A:345:PX4:O6	4:A:345:PX4:H3	0.43	2.14	10	1
4:A:404:PX4:H37	4:A:417:PX4:H28	0.43	1.89	11	1
4:A:320:PX4:H29	4:A:332:PX4:H28	0.43	1.91	12	1
4:A:389:PX4:H25	4:A:399:PX4:H51	0.43	1.91	13	1
4:A:371:PX4:H57	4:A:389:PX4:H48	0.43	1.91	15	1
4:A:316:PX4:H67	4:A:401:PX4:H41	0.43	1.91	16	1
4:A:367:PX4:H7	4:A:367:PX4:O2	0.43	2.13	18	1
4:A:416:PX4:H60	4:A:416:PX4:H67	0.43	1.49	18	1
4:A:377:PX4:H57	4:A:377:PX4:H62	0.43	1.60	2	1
4:A:395:PX4:H41	4:A:401:PX4:H65	0.43	1.91	2	1
4:A:305:PX4:H38	4:A:324:PX4:H70	0.43	1.91	3	1
4:A:309:PX4:H48	4:A:347:PX4:H24	0.43	1.90	3	1
4:A:344:PX4:H26	4:A:344:PX4:H31	0.43	1.65	3	1
4:A:406:PX4:H32	5:A:435:C3S:H443	0.43	1.90	3	1
4:A:355:PX4:H45	4:A:412:PX4:H64	0.43	1.90	4	1
4:A:367:PX4:H55	4:A:424:PX4:H50	0.43	1.89	5	1
4:A:378:PX4:H55	4:A:426:PX4:H53	0.43	1.90	5	1
4:A:349:PX4:H24	4:A:361:PX4:H19	0.43	1.90	6	1
4:A:344:PX4:H28	4:A:344:PX4:H33	0.43	1.60	7	1
4:A:351:PX4:H40	4:A:393:PX4:H37	0.43	1.90	7	1
4:A:370:PX4:H16	4:A:383:PX4:H49	0.43	1.91	10	1
4:A:403:PX4:H44	4:A:403:PX4:H38	0.43	1.53	10	1
4:A:385:PX4:H51	4:A:415:PX4:H16	0.43	1.91	11	1
4:A:370:PX4:H52	4:A:381:PX4:H50	0.43	1.89	12	1
4:A:315:PX4:H57	4:A:332:PX4:H17	0.43	1.90	13	1
4:A:309:PX4:H38	4:A:345:PX4:H38	0.43	1.90	14	1
4:A:410:PX4:H59	5:A:435:C3S:H151	0.43	1.91	14	1
4:A:318:PX4:H28	4:A:357:PX4:C14	0.43	2.42	15	1
4:A:313:PX4:H60	4:A:353:PX4:H58	0.43	1.90	16	1
4:A:327:PX4:H25	4:A:332:PX4:H68	0.43	1.90	18	1
4:A:306:PX4:H19	4:A:358:PX4:H47	0.43	1.91	19	1
4:A:416:PX4:O6	4:A:416:PX4:H10	0.43	2.13	19	1
4:A:317:PX4:H36	4:A:361:PX4:H22	0.43	1.91	20	1
1:A:30:LYS:O	1:A:31:ASN:HB3	0.42	2.13	1	1
4:A:381:PX4:H26	4:A:417:PX4:H58	0.42	1.91	1	1
1:A:156:LEU:CD2	1:A:156:LEU:N	0.42	2.82	4	1
4:A:349:PX4:H57	4:A:349:PX4:H62	0.42	1.49	4	1
4:A:338:PX4:H26	4:A:344:PX4:H17	0.42	1.91	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:318:PX4:H63	4:A:412:PX4:H44	0.42	1.90	9	1
4:A:403:PX4:H60	4:A:403:PX4:H67	0.42	1.57	10	1
4:A:330:PX4:H66	4:A:330:PX4:H61	0.42	1.65	12	1
4:A:403:PX4:H17	4:A:421:PX4:H47	0.42	1.90	13	1
4:A:307:PX4:H26	4:A:374:PX4:H70	0.42	1.90	15	1
4:A:312:PX4:H53	4:A:312:PX4:H46	0.42	1.53	15	1
4:A:316:PX4:O6	4:A:318:PX4:H11	0.42	2.14	15	1
4:A:324:PX4:H42	4:A:346:PX4:H42	0.42	1.90	15	1
4:A:374:PX4:H30	4:A:397:PX4:H69	0.42	1.91	18	1
4:A:400:PX4:H8	4:A:407:PX4:H48	0.42	1.90	18	1
1:A:128:VAL:CG2	4:A:343:PX4:H50	0.42	2.44	19	1
4:A:322:PX4:H46	4:A:337:PX4:H17	0.42	1.90	20	1
4:A:417:PX4:H19	4:A:418:PX4:H49	0.42	1.91	20	1
4:A:316:PX4:H15	4:A:352:PX4:O5	0.42	2.14	5	1
4:A:325:PX4:O6	4:A:361:PX4:H6	0.42	2.14	5	1
4:A:393:PX4:H17	4:A:416:PX4:H22	0.42	1.91	5	1
4:A:414:PX4:H69	4:A:426:PX4:H72	0.42	1.91	6	1
1:A:71:ASP:OD2	1:A:198:HIS:CE1	0.42	2.72	7	1
4:A:352:PX4:H40	4:A:375:PX4:H63	0.42	1.91	7	1
4:A:369:PX4:H63	4:A:393:PX4:H34	0.42	1.90	7	1
4:A:348:PX4:H9	4:A:348:PX4:H15	0.42	1.90	9	1
1:A:57:ARG:CZ	1:A:217:GLY:HA3	0.42	2.44	10	1
4:A:386:PX4:H22	4:A:402:PX4:H20	0.42	1.91	10	1
4:A:334:PX4:H47	5:A:432:C3S:H232	0.42	1.91	11	1
4:A:371:PX4:H46	4:A:389:PX4:H51	0.42	1.90	11	1
4:A:308:PX4:H52	4:A:326:PX4:H19	0.42	1.91	12	1
4:A:379:PX4:H22	4:A:425:PX4:H25	0.42	1.91	12	1
4:A:395:PX4:H66	4:A:402:PX4:H61	0.42	1.90	14	1
4:A:428:PX4:H10	4:A:428:PX4:H1	0.42	1.58	14	1
4:A:325:PX4:H48	4:A:325:PX4:H55	0.42	1.43	16	1
4:A:380:PX4:H49	4:A:385:PX4:H26	0.42	1.91	16	1
4:A:384:PX4:H16	4:A:405:PX4:H9	0.42	1.91	18	1
4:A:397:PX4:H18	4:A:411:PX4:H1	0.42	1.91	18	1
4:A:409:PX4:H48	4:A:409:PX4:H55	0.42	1.59	18	1
4:A:309:PX4:H59	4:A:328:PX4:H45	0.42	1.90	19	1
4:A:330:PX4:H40	4:A:337:PX4:H45	0.42	1.90	19	1
4:A:389:PX4:H4	4:A:401:PX4:O1	0.42	2.14	1	1
4:A:320:PX4:H54	4:A:334:PX4:H72	0.42	1.91	2	1
4:A:323:PX4:H61	4:A:328:PX4:H61	0.42	1.90	3	1
4:A:383:PX4:H11	4:A:400:PX4:O8	0.42	2.14	7	1
4:A:340:PX4:O8	4:A:341:PX4:H11	0.42	2.14	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:353:PX4:H59	4:A:361:PX4:H28	0.42	1.90	15	1
4:A:379:PX4:H21	4:A:425:PX4:H20	0.42	1.92	17	1
4:A:313:PX4:H30	4:A:362:PX4:H48	0.42	1.91	18	1
4:A:375:PX4:H70	4:A:405:PX4:H48	0.42	1.90	18	1
4:A:324:PX4:H31	4:A:324:PX4:H38	0.42	1.55	19	1
4:A:372:PX4:H16	4:A:410:PX4:H53	0.42	1.91	20	1
4:A:404:PX4:H23	4:A:418:PX4:H24	0.42	1.90	20	1
4:A:411:PX4:H54	4:A:411:PX4:H49	0.42	1.62	1	1
1:A:127:VAL:HG12	1:A:129:TRP:CZ2	0.42	2.49	2	1
4:A:362:PX4:H29	4:A:362:PX4:H36	0.42	1.66	2	1
4:A:376:PX4:H61	4:A:388:PX4:H35	0.42	1.90	2	1
4:A:428:PX4:H39	4:A:429:PX4:H34	0.42	1.91	2	1
4:A:338:PX4:H25	4:A:344:PX4:H21	0.42	1.91	3	1
4:A:369:PX4:H28	4:A:383:PX4:H27	0.42	1.91	3	1
4:A:417:PX4:H33	4:A:418:PX4:H36	0.42	1.91	3	1
4:A:329:PX4:H50	4:A:355:PX4:H61	0.42	1.90	4	1
4:A:324:PX4:H46	4:A:346:PX4:H67	0.42	1.90	6	1
4:A:327:PX4:H41	4:A:338:PX4:H34	0.42	1.92	6	1
4:A:331:PX4:H62	4:A:331:PX4:H69	0.42	1.69	11	1
4:A:403:PX4:H20	4:A:403:PX4:H18	0.42	1.47	11	1
4:A:397:PX4:C34	4:A:423:PX4:H68	0.42	2.41	12	1
4:A:354:PX4:H39	4:A:354:PX4:H34	0.42	1.54	14	1
4:A:305:PX4:O6	4:A:311:PX4:H5	0.42	2.14	15	1
4:A:353:PX4:H60	4:A:353:PX4:H55	0.42	1.46	18	1
4:A:308:PX4:H14	4:A:320:PX4:O3	0.42	2.14	19	1
4:A:380:PX4:H44	4:A:420:PX4:H68	0.42	1.91	20	1
4:A:317:PX4:H60	4:A:337:PX4:H60	0.42	1.92	1	1
4:A:353:PX4:O6	4:A:361:PX4:H1	0.42	2.14	3	1
4:A:371:PX4:H60	4:A:399:PX4:H54	0.42	1.89	3	1
4:A:317:PX4:H65	4:A:320:PX4:H35	0.42	1.91	5	1
4:A:317:PX4:H39	4:A:415:PX4:H43	0.42	1.92	7	1
4:A:339:PX4:H41	4:A:368:PX4:H65	0.42	1.92	8	1
4:A:334:PX4:H45	4:A:426:PX4:H20	0.42	1.90	9	1
4:A:419:PX4:H45	4:A:419:PX4:H37	0.42	1.48	9	1
1:A:114:ASN:OD1	4:A:348:PX4:H1	0.42	2.14	11	1
4:A:377:PX4:H60	4:A:408:PX4:H31	0.42	1.92	11	1
4:A:395:PX4:H47	4:A:401:PX4:H16	0.42	1.91	15	1
4:A:369:PX4:H25	4:A:430:PX4:H25	0.42	1.91	17	1
4:A:316:PX4:H30	4:A:316:PX4:H35	0.42	1.67	5	1
4:A:338:PX4:C24	4:A:347:PX4:H57	0.42	2.41	6	1
4:A:374:PX4:H63	4:A:430:PX4:H63	0.42	1.90	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:338:PX4:H65	4:A:374:PX4:H72	0.42	1.90	9	1
4:A:351:PX4:H69	4:A:360:PX4:H50	0.42	1.90	11	1
4:A:428:PX4:H28	4:A:428:PX4:H33	0.42	1.60	11	1
4:A:370:PX4:H7	4:A:430:PX4:H15	0.42	1.91	13	1
4:A:397:PX4:H56	4:A:430:PX4:H23	0.42	1.90	13	1
1:A:120:ILE:O	4:A:327:PX4:H9	0.42	2.14	15	1
4:A:407:PX4:O4	4:A:427:PX4:H3	0.42	2.14	15	1
4:A:322:PX4:H39	4:A:322:PX4:H34	0.42	1.53	17	1
4:A:375:PX4:H72	4:A:384:PX4:H26	0.42	1.91	17	1
4:A:391:PX4:H34	4:A:391:PX4:H27	0.42	1.46	20	1
4:A:340:PX4:H52	4:A:340:PX4:H31	0.42	1.90	3	1
4:A:366:PX4:H56	4:A:421:PX4:H63	0.42	1.91	5	1
4:A:393:PX4:H65	4:A:393:PX4:H58	0.42	1.53	8	1
4:A:322:PX4:H17	4:A:344:PX4:H24	0.42	1.90	10	1
4:A:399:PX4:H32	4:A:399:PX4:H60	0.42	1.90	10	1
4:A:336:PX4:H55	4:A:344:PX4:C22	0.42	2.43	11	1
4:A:333:PX4:H24	4:A:333:PX4:H29	0.42	1.60	12	1
4:A:347:PX4:H19	4:A:351:PX4:H25	0.42	1.90	12	1
4:A:310:PX4:H28	4:A:364:PX4:H41	0.42	1.90	14	1
4:A:314:PX4:H35	4:A:336:PX4:H68	0.42	1.92	14	1
4:A:397:PX4:H59	4:A:423:PX4:H51	0.42	1.90	15	1
4:A:408:PX4:H28	4:A:422:PX4:H28	0.42	1.91	15	1
4:A:344:PX4:H29	4:A:344:PX4:H24	0.42	1.69	17	1
4:A:393:PX4:H12	4:A:416:PX4:C23	0.42	2.44	17	1
4:A:307:PX4:H41	4:A:327:PX4:H26	0.42	1.90	18	1
4:A:374:PX4:H29	4:A:397:PX4:H69	0.42	1.90	20	1
4:A:428:PX4:H26	4:A:428:PX4:H19	0.42	1.54	20	1
4:A:358:PX4:H72	4:A:383:PX4:H70	0.42	1.92	1	1
4:A:377:PX4:H16	4:A:377:PX4:H46	0.42	1.57	1	3
4:A:396:PX4:H63	4:A:396:PX4:H68	0.42	1.64	2	1
4:A:356:PX4:H62	4:A:356:PX4:H57	0.42	1.66	3	1
4:A:312:PX4:O6	4:A:324:PX4:H12	0.42	2.15	4	1
4:A:332:PX4:H69	4:A:348:PX4:H33	0.42	1.91	4	1
4:A:410:PX4:H38	5:A:435:C3S:H402	0.42	1.91	5	1
4:A:383:PX4:H46	4:A:405:PX4:H48	0.42	1.91	6	1
4:A:327:PX4:H52	4:A:327:PX4:H58	0.42	1.62	8	1
4:A:402:PX4:H33	4:A:426:PX4:H52	0.42	1.91	10	1
4:A:317:PX4:O1	4:A:320:PX4:H11	0.42	2.15	11	1
4:A:416:PX4:H51	5:A:433:C3S:H152	0.42	1.92	11	1
4:A:393:PX4:H13	4:A:416:PX4:H16	0.42	1.91	13	1
1:A:119:GLU:O	1:A:120:ILE:HG23	0.42	2.14	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:314:PX4:H24	4:A:314:PX4:H30	0.42	1.62	15	1
4:A:332:PX4:H20	4:A:332:PX4:H25	0.42	1.48	15	1
4:A:397:PX4:H33	4:A:412:PX4:H63	0.42	1.92	15	1
1:A:120:ILE:O	4:A:327:PX4:H8	0.42	2.14	17	1
1:A:128:VAL:CG2	4:A:343:PX4:H53	0.42	2.45	17	1
4:A:309:PX4:H31	4:A:309:PX4:H37	0.42	1.57	17	1
4:A:373:PX4:H41	4:A:373:PX4:H35	0.42	1.33	17	1
4:A:404:PX4:H25	4:A:418:PX4:H58	0.42	1.92	19	1
4:A:425:PX4:H42	4:A:425:PX4:H35	0.42	1.59	19	1
4:A:411:PX4:H32	4:A:423:PX4:H61	0.42	1.91	2	1
4:A:318:PX4:H18	4:A:318:PX4:H13	0.42	1.91	3	1
4:A:407:PX4:H68	4:A:407:PX4:H63	0.42	1.69	3	1
4:A:306:PX4:H37	4:A:345:PX4:H30	0.42	1.90	4	1
4:A:313:PX4:H39	4:A:362:PX4:H26	0.42	1.92	4	1
4:A:307:PX4:H18	4:A:331:PX4:H36	0.42	1.92	5	1
4:A:313:PX4:H15	4:A:313:PX4:O8	0.42	2.14	5	1
4:A:387:PX4:H49	4:A:418:PX4:H69	0.42	1.92	6	1
4:A:413:PX4:H35	4:A:428:PX4:C17	0.42	2.41	6	1
4:A:308:PX4:H48	4:A:320:PX4:H22	0.42	1.92	7	1
4:A:365:PX4:O6	4:A:369:PX4:H3	0.42	2.13	7	1
4:A:309:PX4:H67	4:A:309:PX4:H60	0.42	1.62	8	1
4:A:411:PX4:H33	4:A:412:PX4:H62	0.42	1.91	8	1
4:A:364:PX4:H57	4:A:364:PX4:H51	0.42	1.45	10	1
4:A:332:PX4:H14	4:A:348:PX4:H50	0.42	1.90	11	1
4:A:345:PX4:H54	4:A:359:PX4:H15	0.42	1.90	11	1
4:A:319:PX4:H62	4:A:321:PX4:H41	0.42	1.92	12	1
4:A:319:PX4:O2	4:A:341:PX4:H13	0.42	2.15	13	1
4:A:349:PX4:H63	4:A:349:PX4:H56	0.42	1.68	14	1
4:A:396:PX4:H24	4:A:407:PX4:H48	0.42	1.92	14	1
4:A:323:PX4:H40	4:A:323:PX4:H33	0.42	1.62	16	1
4:A:373:PX4:H17	4:A:406:PX4:H46	0.42	1.92	16	1
4:A:410:PX4:H29	4:A:414:PX4:H26	0.42	1.90	16	1
4:A:324:PX4:H52	4:A:324:PX4:H59	0.42	1.72	17	1
4:A:342:PX4:H18	4:A:357:PX4:H43	0.42	1.92	17	1
4:A:367:PX4:H17	4:A:399:PX4:H4	0.42	1.92	17	1
4:A:347:PX4:H36	4:A:347:PX4:H29	0.42	1.51	18	1
4:A:351:PX4:H36	4:A:419:PX4:H65	0.42	1.90	20	1
4:A:350:PX4:H62	4:A:426:PX4:H70	0.42	1.90	1	1
4:A:375:PX4:H45	4:A:375:PX4:H37	0.42	1.63	1	1
4:A:381:PX4:H28	4:A:417:PX4:H62	0.42	1.91	1	1
4:A:376:PX4:H50	4:A:390:PX4:H15	0.42	1.90	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:318:PX4:H46	4:A:352:PX4:H22	0.42	1.92	5	1
4:A:413:PX4:H25	4:A:413:PX4:H32	0.42	1.48	5	1
4:A:428:PX4:H6	4:A:429:PX4:O4	0.42	2.15	5	1
4:A:312:PX4:H33	4:A:346:PX4:H17	0.42	1.92	6	1
4:A:384:PX4:H20	4:A:405:PX4:H23	0.42	1.92	10	1
4:A:398:PX4:H21	4:A:398:PX4:H28	0.42	1.79	11	1
4:A:305:PX4:H18	4:A:311:PX4:H2	0.42	1.92	12	1
4:A:305:PX4:H58	4:A:312:PX4:H56	0.42	1.92	13	1
4:A:335:PX4:H26	4:A:360:PX4:H48	0.42	1.91	13	1
4:A:376:PX4:H60	4:A:390:PX4:H17	0.42	1.92	17	1
4:A:317:PX4:H20	4:A:326:PX4:H14	0.42	1.91	18	1
4:A:345:PX4:H12	4:A:349:PX4:H17	0.42	1.90	18	1
4:A:367:PX4:H59	4:A:424:PX4:H62	0.42	1.91	18	1
4:A:374:PX4:H20	4:A:423:PX4:H12	0.42	1.91	19	1
4:A:389:PX4:O3	4:A:401:PX4:H6	0.42	2.15	20	1
4:A:331:PX4:H67	4:A:331:PX4:H60	0.41	1.41	2	1
4:A:369:PX4:H24	4:A:430:PX4:H58	0.41	1.91	2	1
4:A:333:PX4:H55	4:A:333:PX4:H24	0.41	1.91	3	1
1:A:161:ALA:HB1	1:A:162:PRO:HD2	0.41	1.92	4	1
4:A:391:PX4:H49	4:A:427:PX4:H40	0.41	1.93	4	1
4:A:359:PX4:H59	4:A:407:PX4:H43	0.41	1.91	5	1
4:A:377:PX4:O2	4:A:408:PX4:H9	0.41	2.15	6	1
4:A:395:PX4:H29	4:A:395:PX4:H36	0.41	1.59	6	1
4:A:374:PX4:H35	4:A:397:PX4:H67	0.41	1.92	7	1
4:A:348:PX4:H44	4:A:348:PX4:H38	0.41	1.58	9	1
4:A:366:PX4:H64	4:A:387:PX4:H55	0.41	1.92	9	1
4:A:404:PX4:H40	4:A:404:PX4:H33	0.41	1.36	9	1
4:A:422:PX4:H10	4:A:425:PX4:O2	0.41	2.15	9	1
4:A:315:PX4:H32	4:A:317:PX4:H46	0.41	1.91	10	1
4:A:366:PX4:H69	4:A:390:PX4:H66	0.41	1.90	14	1
4:A:314:PX4:H70	4:A:416:PX4:H72	0.41	1.91	15	1
4:A:416:PX4:H40	4:A:418:PX4:C36	0.41	2.45	16	1
4:A:319:PX4:C26	4:A:356:PX4:H16	0.41	2.45	17	1
4:A:391:PX4:H49	4:A:427:PX4:H27	0.41	1.91	19	1
4:A:379:PX4:O4	4:A:425:PX4:H3	0.41	2.15	1	1
4:A:313:PX4:H61	4:A:360:PX4:H23	0.41	1.93	3	1
4:A:406:PX4:H67	4:A:406:PX4:H60	0.41	1.46	3	1
4:A:394:PX4:H8	4:A:395:PX4:O2	0.41	2.15	4	1
1:A:104:THR:CG2	4:A:320:PX4:H46	0.41	2.45	5	1
4:A:362:PX4:H21	4:A:362:PX4:H48	0.41	1.91	5	1
4:A:409:PX4:H64	4:A:411:PX4:H32	0.41	1.92	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:359:PX4:H72	4:A:376:PX4:H33	0.41	1.93	8	1
4:A:381:PX4:H44	4:A:402:PX4:H72	0.41	1.92	8	1
4:A:379:PX4:H18	4:A:425:PX4:O5	0.41	2.15	9	1
4:A:315:PX4:H59	4:A:332:PX4:O8	0.41	2.15	10	1
4:A:348:PX4:H67	4:A:396:PX4:H72	0.41	1.92	11	1
4:A:359:PX4:H30	4:A:359:PX4:H24	0.41	1.70	11	1
4:A:345:PX4:H58	4:A:345:PX4:H53	0.41	1.60	12	1
4:A:382:PX4:H54	4:A:404:PX4:C22	0.41	2.42	12	1
4:A:382:PX4:H24	4:A:404:PX4:H56	0.41	1.91	16	1
4:A:369:PX4:H27	4:A:374:PX4:H58	0.41	1.91	18	1
4:A:408:PX4:H11	4:A:414:PX4:O1	0.41	2.15	18	1
4:A:399:PX4:H23	4:A:424:PX4:H28	0.41	1.92	19	1
4:A:385:PX4:H52	4:A:415:PX4:H58	0.41	1.91	20	1
4:A:309:PX4:H19	4:A:345:PX4:H57	0.41	1.92	3	1
4:A:376:PX4:C12	4:A:396:PX4:H50	0.41	2.44	3	1
4:A:312:PX4:H64	4:A:333:PX4:H55	0.41	1.92	4	1
4:A:305:PX4:H33	4:A:305:PX4:H68	0.41	1.91	5	1
4:A:312:PX4:H21	4:A:324:PX4:H6	0.41	1.91	6	1
4:A:374:PX4:H5	4:A:411:PX4:O8	0.41	2.14	6	1
4:A:363:PX4:H65	4:A:363:PX4:H58	0.41	1.62	8	1
4:A:373:PX4:H26	4:A:402:PX4:H25	0.41	1.91	8	1
4:A:390:PX4:H27	4:A:416:PX4:H19	0.41	1.91	8	1
4:A:339:PX4:H71	4:A:339:PX4:H65	0.41	1.70	9	1
4:A:375:PX4:H34	4:A:396:PX4:H37	0.41	1.91	9	1
4:A:331:PX4:H53	4:A:331:PX4:H58	0.41	1.52	12	1
4:A:307:PX4:H39	4:A:344:PX4:H33	0.41	1.92	13	1
4:A:345:PX4:H58	4:A:359:PX4:H17	0.41	1.91	13	1
4:A:309:PX4:H63	4:A:309:PX4:H32	0.41	1.92	14	1
4:A:403:PX4:H30	4:A:417:PX4:H27	0.41	1.91	14	1
4:A:365:PX4:H34	4:A:369:PX4:H28	0.41	1.92	15	1
4:A:408:PX4:H18	4:A:427:PX4:H46	0.41	1.91	15	1
4:A:428:PX4:O5	4:A:429:PX4:H54	0.41	2.15	19	1
4:A:320:PX4:C36	4:A:350:PX4:H46	0.41	2.45	20	1
4:A:323:PX4:H60	4:A:360:PX4:H22	0.41	1.92	3	1
4:A:322:PX4:H54	4:A:344:PX4:H22	0.41	1.93	4	1
4:A:342:PX4:H40	4:A:358:PX4:H67	0.41	1.91	4	1
4:A:379:PX4:H45	4:A:384:PX4:H35	0.41	1.92	5	1
4:A:400:PX4:H15	4:A:405:PX4:O2	0.41	2.15	5	1
4:A:308:PX4:H67	4:A:326:PX4:H35	0.41	1.91	8	1
4:A:375:PX4:H20	4:A:392:PX4:H32	0.41	1.92	8	1
4:A:330:PX4:O8	4:A:337:PX4:H3	0.41	2.15	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:373:PX4:H37	4:A:401:PX4:H33	0.41	1.91	9	1
4:A:387:PX4:H33	4:A:387:PX4:H40	0.41	1.60	10	1
4:A:400:PX4:H53	4:A:401:PX4:H55	0.41	1.91	10	1
4:A:310:PX4:H41	4:A:313:PX4:H64	0.41	1.92	11	1
4:A:327:PX4:H32	4:A:359:PX4:H60	0.41	1.91	11	1
4:A:372:PX4:H59	4:A:372:PX4:H53	0.41	1.74	11	1
4:A:372:PX4:H72	4:A:410:PX4:H31	0.41	1.92	11	1
4:A:402:PX4:H42	5:A:431:C3S:C50	0.41	2.45	11	1
4:A:338:PX4:H31	4:A:344:PX4:H58	0.41	1.92	14	1
4:A:324:PX4:H3	5:A:431:C3S:O4	0.41	2.15	15	1
4:A:386:PX4:H52	4:A:417:PX4:C16	0.41	2.45	16	1
4:A:350:PX4:H7	4:A:356:PX4:H51	0.41	1.92	17	1
4:A:400:PX4:H21	4:A:405:PX4:O6	0.41	2.15	17	1
4:A:332:PX4:H34	4:A:332:PX4:H27	0.41	1.69	20	1
4:A:315:PX4:H70	4:A:332:PX4:H63	0.41	1.91	1	1
4:A:384:PX4:H8	4:A:389:PX4:O6	0.41	2.14	2	1
4:A:387:PX4:H62	4:A:421:PX4:H57	0.41	1.92	2	1
4:A:392:PX4:H13	4:A:405:PX4:O1	0.41	2.13	2	1
4:A:381:PX4:H34	4:A:381:PX4:H27	0.41	1.76	3	1
4:A:329:PX4:H63	4:A:329:PX4:H68	0.41	1.78	5	1
4:A:400:PX4:H18	4:A:405:PX4:O2	0.41	2.16	5	1
4:A:421:PX4:H38	4:A:421:PX4:H31	0.41	1.64	6	1
4:A:336:PX4:H30	4:A:357:PX4:H18	0.41	1.92	8	1
4:A:424:PX4:H23	5:A:435:C3S:C44	0.41	2.45	8	1
4:A:321:PX4:H38	4:A:367:PX4:H44	0.41	1.92	9	1
4:A:395:PX4:H28	4:A:402:PX4:C27	0.41	2.45	10	1
4:A:335:PX4:H39	4:A:387:PX4:H41	0.41	1.92	11	1
4:A:305:PX4:H52	4:A:312:PX4:H56	0.41	1.93	12	1
4:A:324:PX4:H17	5:A:431:C3S:H30	0.41	1.91	12	1
4:A:387:PX4:C36	4:A:403:PX4:H35	0.41	2.42	12	1
4:A:375:PX4:H32	4:A:427:PX4:H25	0.41	1.93	16	1
4:A:382:PX4:H50	4:A:404:PX4:H17	0.41	1.92	16	1
4:A:382:PX4:H63	4:A:382:PX4:H69	0.41	1.56	17	1
4:A:321:PX4:H35	4:A:332:PX4:H65	0.41	1.92	19	1
4:A:333:PX4:H15	4:A:333:PX4:H12	0.41	1.91	19	1
4:A:353:PX4:H33	4:A:361:PX4:H63	0.41	1.91	19	1
4:A:380:PX4:H20	4:A:420:PX4:H53	0.41	1.92	19	1
4:A:349:PX4:H16	4:A:361:PX4:H10	0.41	1.92	20	1
4:A:373:PX4:H62	4:A:414:PX4:H35	0.41	1.91	20	1
4:A:307:PX4:O2	4:A:322:PX4:H4	0.41	2.16	1	1
4:A:311:PX4:H43	4:A:377:PX4:H62	0.41	1.91	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:342:PX4:H29	4:A:342:PX4:H35	0.41	1.72	1	1
4:A:346:PX4:H31	4:A:346:PX4:H38	0.41	1.57	1	1
4:A:377:PX4:H17	4:A:408:PX4:H18	0.41	1.91	1	1
4:A:406:PX4:H40	4:A:410:PX4:H39	0.41	1.92	2	1
4:A:356:PX4:H28	4:A:356:PX4:H21	0.41	1.60	4	1
4:A:308:PX4:O4	4:A:320:PX4:H17	0.41	2.16	5	1
4:A:393:PX4:H52	4:A:419:PX4:H28	0.41	1.92	5	1
4:A:313:PX4:H26	4:A:313:PX4:H19	0.41	1.64	6	1
4:A:324:PX4:H47	4:A:333:PX4:H14	0.41	1.93	6	1
4:A:334:PX4:H55	4:A:334:PX4:H48	0.41	1.61	6	1
4:A:414:PX4:H28	4:A:414:PX4:H33	0.41	1.71	8	1
4:A:359:PX4:H41	4:A:430:PX4:H42	0.41	1.90	9	1
4:A:328:PX4:H41	4:A:328:PX4:H36	0.41	1.66	13	1
4:A:342:PX4:H29	4:A:358:PX4:H52	0.41	1.91	15	1
1:A:221:PRO:O	4:A:317:PX4:H5	0.41	2.16	18	1
4:A:362:PX4:H14	4:A:362:PX4:H13	0.41	1.91	18	1
4:A:369:PX4:H53	4:A:419:PX4:H47	0.41	1.92	18	1
4:A:335:PX4:H33	4:A:360:PX4:H31	0.41	1.93	20	1
4:A:334:PX4:H48	5:A:432:C3S:H20	0.41	1.91	1	1
4:A:370:PX4:H35	4:A:370:PX4:H30	0.41	1.61	2	1
4:A:428:PX4:H35	4:A:428:PX4:H42	0.41	1.35	3	1
4:A:306:PX4:H60	4:A:321:PX4:H17	0.41	1.92	4	1
4:A:308:PX4:H32	4:A:320:PX4:H17	0.41	1.92	4	1
4:A:370:PX4:H22	4:A:394:PX4:O7	0.41	2.16	4	1
4:A:398:PX4:H68	4:A:415:PX4:H51	0.41	1.93	4	1
4:A:366:PX4:H51	4:A:403:PX4:H53	0.41	1.92	5	1
4:A:372:PX4:H56	4:A:372:PX4:H63	0.41	1.70	5	1
4:A:380:PX4:H60	4:A:416:PX4:H46	0.41	1.92	6	1
4:A:406:PX4:H34	4:A:406:PX4:H39	0.41	1.43	8	1
4:A:368:PX4:H25	4:A:408:PX4:H52	0.41	1.92	9	1
4:A:324:PX4:H41	4:A:414:PX4:H52	0.41	1.93	10	1
4:A:379:PX4:H34	4:A:379:PX4:H27	0.41	1.67	10	1
4:A:374:PX4:H37	4:A:374:PX4:H32	0.41	1.51	11	1
4:A:318:PX4:H33	4:A:318:PX4:H28	0.41	1.62	12	1
4:A:389:PX4:H51	4:A:400:PX4:H23	0.41	1.93	12	1
4:A:347:PX4:H17	4:A:351:PX4:O6	0.41	2.15	13	1
4:A:382:PX4:H25	4:A:382:PX4:H20	0.41	1.53	13	1
4:A:322:PX4:H41	4:A:331:PX4:C20	0.41	2.46	16	1
4:A:338:PX4:H57	4:A:338:PX4:H50	0.41	1.71	16	1
4:A:315:PX4:H25	4:A:320:PX4:H20	0.41	1.92	19	1
4:A:315:PX4:H43	4:A:423:PX4:H41	0.41	1.91	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:374:PX4:H32	4:A:374:PX4:H37	0.41	1.56	19	1
4:A:315:PX4:H59	4:A:315:PX4:H52	0.41	1.65	1	1
4:A:316:PX4:H30	4:A:321:PX4:H52	0.41	1.92	1	1
4:A:382:PX4:H27	4:A:415:PX4:H61	0.41	1.92	1	1
4:A:306:PX4:H19	4:A:306:PX4:H26	0.41	1.60	5	1
4:A:375:PX4:H34	4:A:427:PX4:H46	0.41	1.92	6	1
4:A:338:PX4:O3	4:A:344:PX4:H4	0.41	2.16	7	1
4:A:429:PX4:H36	4:A:429:PX4:H41	0.41	1.71	7	1
4:A:307:PX4:H25	4:A:322:PX4:H48	0.41	1.92	8	1
4:A:428:PX4:O3	4:A:429:PX4:H15	0.41	2.15	8	1
4:A:417:PX4:H16	4:A:418:PX4:H20	0.41	1.92	9	1
4:A:415:PX4:H66	4:A:421:PX4:H30	0.41	1.91	12	1
4:A:340:PX4:O2	4:A:343:PX4:H12	0.41	2.16	14	1
4:A:394:PX4:H40	4:A:401:PX4:H61	0.41	1.92	16	1
4:A:400:PX4:H65	4:A:405:PX4:H25	0.41	1.92	16	1
4:A:321:PX4:H66	4:A:342:PX4:H72	0.41	1.91	18	1
4:A:386:PX4:H9	4:A:417:PX4:H49	0.41	1.92	18	1
4:A:371:PX4:H14	4:A:373:PX4:C8	0.41	2.45	20	1
4:A:400:PX4:H55	4:A:405:PX4:H49	0.41	1.92	20	1
4:A:415:PX4:H44	4:A:421:PX4:H19	0.41	1.93	20	1
4:A:371:PX4:H26	4:A:395:PX4:H27	0.41	1.93	1	1
4:A:373:PX4:H66	4:A:406:PX4:H67	0.41	1.92	1	1
4:A:383:PX4:H53	4:A:383:PX4:H59	0.41	1.68	1	1
4:A:413:PX4:H18	4:A:429:PX4:H26	0.41	1.92	1	1
4:A:413:PX4:H33	4:A:419:PX4:H31	0.41	1.93	1	1
4:A:319:PX4:O6	4:A:352:PX4:H47	0.41	2.16	2	1
4:A:386:PX4:O3	4:A:402:PX4:H13	0.41	2.15	2	1
1:A:102:HIS:CD2	4:A:350:PX4:H14	0.41	2.51	3	1
4:A:313:PX4:H54	4:A:360:PX4:H45	0.41	1.92	3	1
4:A:397:PX4:H38	4:A:397:PX4:H32	0.41	1.69	3	1
4:A:406:PX4:H26	4:A:410:PX4:H21	0.41	1.92	3	1
4:A:313:PX4:H10	4:A:362:PX4:O1	0.41	2.15	4	1
4:A:402:PX4:O8	4:A:402:PX4:H6	0.41	2.15	4	1
4:A:332:PX4:H61	4:A:376:PX4:H36	0.41	1.93	5	1
4:A:318:PX4:H19	4:A:321:PX4:H50	0.41	1.93	6	1
4:A:322:PX4:H67	4:A:337:PX4:H40	0.41	1.93	6	1
4:A:371:PX4:H28	4:A:371:PX4:H21	0.41	1.65	6	1
4:A:374:PX4:O8	4:A:423:PX4:H9	0.41	2.16	6	1
4:A:402:PX4:H38	4:A:402:PX4:H32	0.41	1.69	6	1
4:A:316:PX4:H28	4:A:316:PX4:H33	0.41	1.69	7	1
4:A:330:PX4:H59	4:A:330:PX4:H52	0.41	1.40	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:382:PX4:H51	5:A:435:C3S:H653	0.41	1.92	7	1
4:A:401:PX4:H65	4:A:405:PX4:H29	0.41	1.93	7	1
4:A:329:PX4:H71	4:A:329:PX4:H65	0.41	1.60	9	1
4:A:354:PX4:H60	4:A:354:PX4:H55	0.41	1.52	9	1
4:A:386:PX4:H60	4:A:386:PX4:H40	0.41	1.92	9	1
4:A:336:PX4:H66	4:A:429:PX4:H43	0.41	1.91	10	1
4:A:393:PX4:H71	4:A:393:PX4:H65	0.41	1.63	10	1
4:A:399:PX4:H55	4:A:424:PX4:H33	0.41	1.92	10	1
1:A:126:LYS:NZ	4:A:350:PX4:H17	0.41	2.31	11	1
4:A:325:PX4:H25	4:A:325:PX4:H20	0.41	1.63	12	1
4:A:326:PX4:H46	4:A:361:PX4:H47	0.41	1.92	12	1
4:A:413:PX4:H18	4:A:419:PX4:H22	0.41	1.92	12	1
4:A:414:PX4:H53	4:A:414:PX4:H46	0.41	1.65	12	1
4:A:359:PX4:H32	4:A:359:PX4:H37	0.41	1.71	13	1
4:A:377:PX4:H45	4:A:391:PX4:H35	0.41	1.92	13	1
4:A:412:PX4:H15	4:A:412:PX4:H13	0.41	1.93	13	1
4:A:365:PX4:H53	4:A:383:PX4:H20	0.41	1.92	14	1
4:A:374:PX4:H4	4:A:397:PX4:O6	0.41	2.16	14	1
4:A:338:PX4:H4	4:A:360:PX4:H46	0.41	1.93	15	1
4:A:391:PX4:H48	4:A:391:PX4:H55	0.41	1.60	15	1
4:A:400:PX4:O7	4:A:405:PX4:H16	0.41	2.16	15	1
4:A:383:PX4:H58	4:A:405:PX4:H50	0.41	1.92	16	1
4:A:310:PX4:H28	4:A:310:PX4:H21	0.41	1.76	17	1
4:A:353:PX4:H32	4:A:353:PX4:H37	0.41	1.50	17	1
4:A:392:PX4:H29	4:A:405:PX4:H48	0.41	1.93	17	1
4:A:316:PX4:H48	4:A:321:PX4:H24	0.41	1.93	18	1
4:A:369:PX4:H21	4:A:429:PX4:H52	0.41	1.92	18	1
4:A:317:PX4:H30	4:A:317:PX4:H35	0.41	1.59	19	1
4:A:318:PX4:H59	4:A:336:PX4:C17	0.41	2.45	19	1
4:A:340:PX4:H6	5:A:432:C3S:O3	0.41	2.16	19	1
4:A:352:PX4:H62	4:A:352:PX4:H57	0.41	1.51	19	1
4:A:368:PX4:H14	4:A:368:PX4:H13	0.41	1.92	19	1
4:A:394:PX4:O6	4:A:400:PX4:H10	0.41	2.16	19	1
4:A:363:PX4:H56	4:A:363:PX4:H63	0.41	1.71	20	1
4:A:370:PX4:C22	4:A:383:PX4:H64	0.41	2.45	20	1
4:A:392:PX4:H63	4:A:392:PX4:H56	0.41	1.63	20	1
4:A:369:PX4:H6	4:A:430:PX4:O8	0.41	2.15	1	1
4:A:318:PX4:H27	4:A:342:PX4:H57	0.41	1.92	2	1
4:A:320:PX4:H63	4:A:320:PX4:H68	0.41	1.79	2	1
4:A:374:PX4:O2	4:A:423:PX4:H7	0.41	2.16	2	1
4:A:397:PX4:H29	4:A:398:PX4:C15	0.41	2.45	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:325:PX4:O6	4:A:330:PX4:H10	0.41	2.15	3	1
4:A:385:PX4:H65	4:A:415:PX4:H55	0.41	1.93	3	1
4:A:409:PX4:H29	4:A:409:PX4:H23	0.41	1.67	3	1
4:A:308:PX4:H53	4:A:326:PX4:H19	0.41	1.91	4	1
4:A:365:PX4:H30	4:A:369:PX4:H53	0.41	1.93	4	1
4:A:306:PX4:H56	4:A:321:PX4:H24	0.41	1.92	6	1
4:A:323:PX4:H37	4:A:323:PX4:H32	0.41	1.50	6	1
4:A:406:PX4:H18	4:A:414:PX4:H26	0.41	1.92	9	1
4:A:430:PX4:H31	4:A:430:PX4:H66	0.41	1.93	9	1
4:A:335:PX4:H55	4:A:335:PX4:H48	0.41	1.80	10	1
4:A:312:PX4:H21	4:A:346:PX4:H47	0.41	1.93	11	1
4:A:323:PX4:H41	4:A:325:PX4:H63	0.41	1.92	11	1
4:A:366:PX4:H19	4:A:378:PX4:H20	0.41	1.92	14	1
4:A:369:PX4:H52	4:A:419:PX4:H59	0.41	1.93	14	1
4:A:307:PX4:H65	4:A:348:PX4:H65	0.41	1.92	15	1
4:A:322:PX4:H24	4:A:330:PX4:H60	0.41	1.93	15	1
4:A:409:PX4:H45	4:A:409:PX4:H38	0.41	1.76	15	1
4:A:366:PX4:H59	4:A:378:PX4:H22	0.41	1.92	16	1
4:A:367:PX4:H56	4:A:412:PX4:H48	0.41	1.93	16	1
4:A:407:PX4:H17	4:A:427:PX4:O4	0.41	2.15	17	1
4:A:366:PX4:H54	4:A:378:PX4:H27	0.41	1.92	18	1
4:A:379:PX4:H22	5:A:434:C3S:C13	0.41	2.45	19	1
4:A:317:PX4:O2	4:A:330:PX4:H4	0.41	2.15	20	1
4:A:330:PX4:H21	4:A:337:PX4:H20	0.41	1.93	20	1
4:A:406:PX4:H19	4:A:414:PX4:H33	0.41	1.91	20	1
4:A:366:PX4:H36	4:A:403:PX4:H25	0.40	1.91	1	1
4:A:375:PX4:H66	4:A:405:PX4:H42	0.40	1.92	1	1
4:A:363:PX4:H34	4:A:363:PX4:H39	0.40	1.74	2	1
4:A:307:PX4:C17	4:A:337:PX4:H36	0.40	2.46	3	1
4:A:318:PX4:H19	4:A:342:PX4:H18	0.40	1.91	3	1
4:A:338:PX4:C35	4:A:359:PX4:H32	0.40	2.42	3	1
4:A:408:PX4:H19	4:A:408:PX4:H26	0.40	1.68	3	1
4:A:383:PX4:H54	4:A:394:PX4:H26	0.40	1.92	4	1
4:A:422:PX4:H50	4:A:425:PX4:H17	0.40	1.92	4	1
4:A:392:PX4:H47	4:A:425:PX4:H50	0.40	1.92	5	1
4:A:330:PX4:O8	4:A:337:PX4:H13	0.40	2.16	6	1
4:A:389:PX4:H29	4:A:389:PX4:H24	0.40	1.67	9	1
4:A:382:PX4:H30	4:A:398:PX4:H59	0.40	1.93	10	1
4:A:394:PX4:H21	4:A:407:PX4:H54	0.40	1.92	10	1
4:A:305:PX4:H45	4:A:333:PX4:H63	0.40	1.93	11	1
4:A:311:PX4:H56	4:A:311:PX4:H62	0.40	1.74	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:332:PX4:H55	4:A:332:PX4:H60	0.40	1.72	11	1
4:A:323:PX4:H34	4:A:353:PX4:H25	0.40	1.92	12	1
4:A:350:PX4:H61	4:A:350:PX4:H54	0.40	1.48	12	1
4:A:403:PX4:H32	4:A:417:PX4:H32	0.40	1.92	13	1
4:A:322:PX4:H63	4:A:337:PX4:H36	0.40	1.92	14	1
4:A:369:PX4:H31	4:A:383:PX4:H23	0.40	1.93	14	1
4:A:402:PX4:H63	4:A:402:PX4:H68	0.40	1.76	14	1
4:A:404:PX4:H21	4:A:418:PX4:H22	0.40	1.93	14	1
4:A:329:PX4:H59	4:A:329:PX4:H52	0.40	1.68	17	1
4:A:328:PX4:H34	4:A:351:PX4:H31	0.40	1.92	18	1
4:A:429:PX4:O6	4:A:429:PX4:H4	0.40	2.16	18	1
4:A:333:PX4:H68	4:A:333:PX4:H62	0.40	1.67	1	1
4:A:317:PX4:H52	4:A:326:PX4:H27	0.40	1.93	2	1
4:A:336:PX4:H45	4:A:413:PX4:H63	0.40	1.92	3	1
4:A:409:PX4:H27	4:A:412:PX4:H29	0.40	1.93	4	1
4:A:349:PX4:H26	4:A:353:PX4:H50	0.40	1.93	5	1
4:A:397:PX4:H55	4:A:423:PX4:H55	0.40	1.93	6	1
4:A:343:PX4:H59	4:A:350:PX4:H59	0.40	1.94	7	1
4:A:365:PX4:H29	4:A:419:PX4:H60	0.40	1.92	7	1
4:A:400:PX4:H36	4:A:401:PX4:H62	0.40	1.92	7	1
4:A:404:PX4:H33	4:A:417:PX4:H31	0.40	1.94	7	1
4:A:351:PX4:H30	4:A:359:PX4:H39	0.40	1.93	8	1
4:A:306:PX4:H30	4:A:306:PX4:H35	0.40	1.72	9	1
4:A:361:PX4:H19	4:A:361:PX4:H25	0.40	1.56	9	1
4:A:370:PX4:H45	4:A:383:PX4:H67	0.40	1.93	9	1
4:A:322:PX4:H20	4:A:322:PX4:H25	0.40	1.72	11	1
4:A:388:PX4:H13	4:A:388:PX4:H2	0.40	1.72	11	1
4:A:417:PX4:H64	4:A:418:PX4:H31	0.40	1.93	12	1
4:A:307:PX4:H35	4:A:307:PX4:H41	0.40	1.45	15	1
4:A:343:PX4:H64	4:A:343:PX4:H72	0.40	1.30	16	1
4:A:334:PX4:H59	4:A:334:PX4:H52	0.40	1.73	17	1
4:A:374:PX4:H8	4:A:428:PX4:O1	0.40	2.17	17	1
4:A:370:PX4:H67	4:A:374:PX4:H69	0.40	1.93	18	1
4:A:325:PX4:H70	4:A:403:PX4:H72	0.40	1.92	19	1
4:A:408:PX4:H38	4:A:422:PX4:H44	0.40	1.94	19	1
4:A:324:PX4:H66	4:A:333:PX4:H53	0.40	1.92	20	1
4:A:375:PX4:H51	4:A:384:PX4:C13	0.40	2.46	20	1
4:A:370:PX4:O8	4:A:381:PX4:H1	0.40	2.16	2	1
4:A:391:PX4:H71	4:A:414:PX4:H59	0.40	1.92	2	1
4:A:306:PX4:H56	4:A:342:PX4:H24	0.40	1.93	3	1
4:A:305:PX4:H69	4:A:324:PX4:H31	0.40	1.93	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:308:PX4:H30	4:A:320:PX4:H17	0.40	1.91	6	1
4:A:386:PX4:H27	4:A:386:PX4:H21	0.40	1.81	7	1
4:A:413:PX4:H65	4:A:413:PX4:H58	0.40	1.65	7	1
4:A:340:PX4:H40	4:A:340:PX4:H33	0.40	1.51	8	1
4:A:355:PX4:H20	4:A:362:PX4:H17	0.40	1.93	9	1
4:A:415:PX4:H46	4:A:415:PX4:H53	0.40	1.69	9	1
4:A:310:PX4:H62	4:A:310:PX4:H57	0.40	1.66	10	1
4:A:349:PX4:H65	4:A:358:PX4:H36	0.40	1.91	10	1
4:A:313:PX4:H27	4:A:362:PX4:H62	0.40	1.93	12	1
4:A:375:PX4:H7	4:A:392:PX4:O6	0.40	2.16	12	1
4:A:417:PX4:H26	4:A:418:PX4:H46	0.40	1.93	12	1
4:A:305:PX4:H57	4:A:305:PX4:H62	0.40	1.67	13	1
4:A:323:PX4:H34	4:A:328:PX4:H37	0.40	1.93	13	1
4:A:348:PX4:H39	4:A:383:PX4:H42	0.40	1.92	13	1
4:A:373:PX4:H57	4:A:406:PX4:H52	0.40	1.93	13	1
4:A:373:PX4:H49	4:A:406:PX4:H17	0.40	1.93	15	1
4:A:314:PX4:H62	4:A:354:PX4:H29	0.40	1.92	16	1
4:A:371:PX4:H27	4:A:395:PX4:H30	0.40	1.92	16	1
4:A:401:PX4:H37	4:A:401:PX4:H32	0.40	1.58	19	1
4:A:319:PX4:H57	4:A:343:PX4:H19	0.40	1.93	20	1
4:A:351:PX4:H71	4:A:351:PX4:H65	0.40	1.70	20	1
4:A:401:PX4:H25	4:A:401:PX4:H32	0.40	1.64	20	1
4:A:384:PX4:H38	4:A:405:PX4:H27	0.40	1.92	1	1
4:A:411:PX4:H63	4:A:423:PX4:H51	0.40	1.92	3	1
4:A:338:PX4:H55	4:A:359:PX4:H35	0.40	1.93	5	1
4:A:354:PX4:H26	4:A:354:PX4:H31	0.40	1.66	6	1
4:A:322:PX4:H35	4:A:337:PX4:H42	0.40	1.92	8	1
4:A:369:PX4:O6	4:A:429:PX4:H49	0.40	2.16	9	1
4:A:374:PX4:H25	4:A:417:PX4:H68	0.40	1.92	9	1
4:A:368:PX4:H33	4:A:368:PX4:H28	0.40	1.69	10	1
4:A:343:PX4:H66	4:A:343:PX4:H61	0.40	1.70	13	1
1:A:57:ARG:NH2	1:A:60:GLU:OE2	0.40	2.45	14	1
4:A:383:PX4:H38	4:A:383:PX4:H31	0.40	1.80	14	1
1:A:221:PRO:CG	1:A:224:PHE:HB2	0.40	2.46	15	1
4:A:322:PX4:H47	4:A:344:PX4:H19	0.40	1.92	15	1
4:A:391:PX4:H1	4:A:427:PX4:O2	0.40	2.17	15	1
4:A:306:PX4:H21	4:A:342:PX4:H25	0.40	1.93	16	1
4:A:391:PX4:H6	4:A:391:PX4:H2	0.40	1.82	16	1
4:A:409:PX4:H51	4:A:409:PX4:H56	0.40	1.59	16	1
4:A:321:PX4:H72	4:A:321:PX4:H64	0.40	1.78	17	1
4:A:328:PX4:H37	4:A:345:PX4:H23	0.40	1.93	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:330:PX4:H31	4:A:330:PX4:H38	0.40	1.56	19	1
4:A:317:PX4:H69	4:A:330:PX4:H44	0.40	1.93	20	1
4:A:306:PX4:H71	4:A:306:PX4:H65	0.40	1.73	1	1
4:A:345:PX4:H32	4:A:345:PX4:H37	0.40	1.78	2	1
4:A:363:PX4:H43	4:A:408:PX4:H43	0.40	1.92	2	1
4:A:365:PX4:H21	4:A:365:PX4:H27	0.40	1.69	2	1
4:A:426:PX4:H7	4:A:426:PX4:H15	0.40	1.94	3	1
4:A:367:PX4:H8	4:A:389:PX4:O1	0.40	2.17	5	1
4:A:397:PX4:H31	4:A:397:PX4:H26	0.40	1.65	5	1
4:A:370:PX4:H35	4:A:394:PX4:H20	0.40	1.93	7	1
4:A:371:PX4:H62	4:A:402:PX4:H40	0.40	1.93	8	1
4:A:368:PX4:H47	5:A:436:C3S:H322	0.40	1.92	9	1
4:A:409:PX4:H63	4:A:411:PX4:H22	0.40	1.94	9	1
4:A:330:PX4:H58	4:A:330:PX4:H53	0.40	1.70	10	1
4:A:376:PX4:H49	4:A:390:PX4:H4	0.40	1.93	10	1
4:A:379:PX4:O1	4:A:409:PX4:H25	0.40	2.15	12	1
4:A:377:PX4:H30	4:A:408:PX4:H30	0.40	1.94	13	1
4:A:378:PX4:H44	4:A:378:PX4:H38	0.40	1.70	16	1
4:A:395:PX4:H47	4:A:395:PX4:H11	0.40	1.92	16	1
4:A:331:PX4:H69	4:A:331:PX4:H63	0.40	1.72	17	1
4:A:314:PX4:H19	4:A:336:PX4:H24	0.40	1.94	18	1
4:A:314:PX4:H72	4:A:314:PX4:H64	0.40	1.73	19	1
4:A:344:PX4:H34	4:A:344:PX4:H27	0.40	1.46	19	1
4:A:362:PX4:H29	4:A:364:PX4:H48	0.40	1.92	19	1
4:A:400:PX4:H59	4:A:405:PX4:C11	0.40	2.46	19	1
4:A:313:PX4:C28	4:A:325:PX4:H55	0.40	2.46	20	1
4:A:324:PX4:H54	4:A:324:PX4:H49	0.40	1.53	20	1
4:A:339:PX4:H20	4:A:339:PX4:H26	0.40	1.73	20	1
4:A:366:PX4:H51	4:A:403:PX4:C23	0.40	2.47	20	1

## 6.3 Torsion angles [i](#)

### 6.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	237/250 (95%)	211±3 (89±1%)	20±3 (8±1%)	6±1 (3±1%)	8	44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	4740/5000 (95%)	4216 (89%)	401 (8%)	123 (3%)	8	44

All 22 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	31	ASN	18
1	A	147	TYR	18
1	A	150	ASP	16
1	A	25	TYR	11
1	A	224	PHE	11
1	A	155	THR	9
1	A	57	ARG	6
1	A	55	ASN	5
1	A	130	GLY	4
1	A	166	LEU	4
1	A	154	ASN	4
1	A	24	LEU	3
1	A	58	VAL	2
1	A	83	LYS	2
1	A	143	HIS	2
1	A	162	PRO	2
1	A	214	PRO	1
1	A	7	MET	1
1	A	49	PRO	1
1	A	117	GLY	1
1	A	141	GLY	1
1	A	183	SER	1

### 6.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	195/208 (94%)	186±3 (95±2%)	9±3 (5±2%)	29	78
All	All	3900/4160 (94%)	3711 (95%)	189 (5%)	29	78

All 68 unique residues with a non-rotameric sidechain are listed below. They are sorted by the

frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	150	ASP	20
1	A	155	THR	12
1	A	158	HIS	9
1	A	177	ARG	9
1	A	75	TYR	8
1	A	118	LYS	7
1	A	122	LEU	6
1	A	156	LEU	6
1	A	26	ASP	5
1	A	71	ASP	5
1	A	45	PHE	5
1	A	97	THR	5
1	A	126	LYS	5
1	A	179	THR	5
1	A	166	LEU	4
1	A	202	MET	4
1	A	171	HIS	3
1	A	96	TYR	3
1	A	98	ARG	3
1	A	174	GLU	3
1	A	110	SER	3
1	A	175	ASP	3
1	A	224	PHE	2
1	A	143	HIS	2
1	A	63	GLN	2
1	A	180	ASP	2
1	A	38	LYS	2
1	A	116	TRP	2
1	A	3	GLU	2
1	A	16	GLN	2
1	A	2	GLN	2
1	A	129	TRP	2
1	A	9	GLU	1
1	A	14	GLN	1
1	A	127	VAL	1
1	A	94	VAL	1
1	A	41	GLU	1
1	A	74	GLU	1
1	A	99	ASP	1
1	A	100	LEU	1
1	A	107	ARG	1
1	A	183	SER	1

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Mol	Chain	Res	Type	Models (Total)
1	A	215	THR	1
1	A	34	SER	1
1	A	189	LEU	1
1	A	149	PHE	1
1	A	30	LYS	1
1	A	83	LYS	1
1	A	86	SER	1
1	A	128	VAL	1
1	A	198	HIS	1
1	A	225	LYS	1
1	A	72	VAL	1
1	A	115	MET	1
1	A	184	LEU	1
1	A	17	ASP	1
1	A	145	ASP	1
1	A	164	THR	1
1	A	235	GLN	1
1	A	36	GLU	1
1	A	182	SER	1
1	A	209	ASN	1
1	A	10	LEU	1
1	A	67	CYS	1
1	A	120	ILE	1
1	A	105	VAL	1
1	A	114	ASN	1
1	A	162	PRO	1

### 6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

### 6.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

### 6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.6 Ligand geometry

Of 136 ligands modelled in this entry, 4 are monoatomic - leaving 132 for Mogul analysis.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
4	PX4	A	350	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	370	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	397	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	414	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	400	-	45,45,45	0.63±0.00	0±0 (0±0%)
5	C3S	A	435	-	35,35,35	1.30±0.01	2±0 (5±0%)
4	PX4	A	335	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	354	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	332	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	349	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	398	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	401	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	322	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	329	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	310	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	392	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	355	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	323	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	346	-	45,45,45	0.63±0.00	0±0 (0±0%)
5	C3S	A	431	-	35,35,35	1.30±0.01	2±0 (5±0%)
4	PX4	A	333	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	393	-	45,45,45	0.63±0.00	0±0 (0±0%)
5	C3S	A	434	-	35,35,35	1.30±0.01	2±0 (5±0%)
4	PX4	A	425	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	358	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	376	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	344	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	307	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	319	-	45,45,45	0.63±0.01	0±0 (0±0%)
5	C3S	A	436	-	35,35,35	1.30±0.01	2±0 (5±0%)
4	PX4	A	337	-	45,45,45	0.63±0.00	0±0 (0±0%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
4	PX4	A	327	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	377	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	385	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	321	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	406	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	375	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	430	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	336	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	325	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	418	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	410	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	334	-	45,45,45	0.63±0.01	0±0 (0±0%)
4	PX4	A	407	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	402	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	318	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	421	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	387	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	309	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	320	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	371	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	369	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	386	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	422	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	366	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	343	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	314	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	416	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	331	-	45,45,45	0.63±0.00	0±0 (0±0%)
5	C3S	A	432	-	35,35,35	1.30±0.01	2±0 (5±0%)
4	PX4	A	413	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	374	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	305	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	372	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	347	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	379	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	360	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	429	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	428	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	341	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	391	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	382	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	356	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	378	-	45,45,45	0.63±0.00	0±0 (0±0%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
4	PX4	A	317	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	316	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	338	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	330	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	383	-	45,45,45	0.63±0.01	0±0 (0±0%)
4	PX4	A	367	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	395	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	426	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	373	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	328	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	420	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	313	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	404	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	424	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	384	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	389	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	427	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	359	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	390	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	339	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	365	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	380	-	45,45,45	0.63±0.01	0±0 (0±0%)
4	PX4	A	364	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	340	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	403	-	45,45,45	0.63±0.00	0±0 (0±0%)
5	C3S	A	433	-	35,35,35	1.29±0.01	2±0 (5±0%)
4	PX4	A	351	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	417	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	326	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	423	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	409	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	394	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	415	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	388	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	312	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	308	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	412	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	348	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	306	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	324	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	315	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	419	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	368	-	45,45,45	0.63±0.00	0±0 (0±0%)

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
4	PX4	A	361	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	357	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	311	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	362	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	405	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	363	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	396	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	342	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	353	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	345	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	408	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	411	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	399	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	352	-	45,45,45	0.63±0.00	0±0 (0±0%)
4	PX4	A	381	-	45,45,45	0.63±0.00	0±0 (0±0%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
4	PX4	A	350	-	51,53,53	1.47±0.12	9±2 (16±4%)
4	PX4	A	370	-	51,53,53	1.50±0.13	9±2 (16±4%)
4	PX4	A	397	-	51,53,53	1.53±0.14	10±3 (19±6%)
4	PX4	A	414	-	51,53,53	1.49±0.12	9±3 (17±5%)
4	PX4	A	400	-	51,53,53	1.48±0.14	9±2 (16±4%)
5	C3S	A	435	-	51,55,55	2.58±0.23	20±3 (39±5%)
4	PX4	A	335	-	51,53,53	1.54±0.14	10±3 (19±5%)
4	PX4	A	354	-	51,53,53	1.51±0.19	9±2 (17±4%)
4	PX4	A	332	-	51,53,53	1.50±0.14	8±2 (15±4%)
4	PX4	A	349	-	51,53,53	1.50±0.11	9±2 (17±3%)
4	PX4	A	398	-	51,53,53	1.48±0.14	9±2 (18±4%)
4	PX4	A	401	-	51,53,53	1.54±0.17	9±2 (17±4%)
4	PX4	A	322	-	51,53,53	1.53±0.13	10±3 (19±4%)
4	PX4	A	329	-	51,53,53	1.44±0.14	9±2 (17±4%)



Mol	Type	Chain	Res	Link	Counts	Bond angles	
						RMSZ	#Z>2
4	PX4	A	310	-	51,53,53	1.51±0.17	9±3 (17±5%)
4	PX4	A	392	-	51,53,53	1.50±0.12	8±2 (15±4%)
4	PX4	A	355	-	51,53,53	1.49±0.15	9±3 (18±5%)
4	PX4	A	323	-	51,53,53	1.52±0.10	10±3 (18±5%)
4	PX4	A	346	-	51,53,53	1.50±0.14	9±2 (17±4%)
5	C3S	A	431	-	51,55,55	2.48±0.30	20±4 (38±7%)
4	PX4	A	333	-	51,53,53	1.48±0.18	9±2 (17±4%)
4	PX4	A	393	-	51,53,53	1.54±0.14	9±2 (17±4%)
5	C3S	A	434	-	51,55,55	2.55±0.31	19±3 (37±6%)
4	PX4	A	425	-	51,53,53	1.48±0.14	9±2 (17±4%)
4	PX4	A	358	-	51,53,53	1.47±0.18	9±3 (16±6%)
4	PX4	A	376	-	51,53,53	1.54±0.21	10±2 (19±4%)
4	PX4	A	344	-	51,53,53	1.44±0.17	9±3 (16±6%)
4	PX4	A	307	-	51,53,53	1.49±0.14	9±3 (17±5%)
4	PX4	A	319	-	51,53,53	1.52±0.17	9±3 (17±5%)
5	C3S	A	436	-	51,55,55	2.59±0.34	18±3 (35±5%)
4	PX4	A	337	-	51,53,53	1.47±0.16	8±3 (15±5%)
4	PX4	A	327	-	51,53,53	1.41±0.16	7±3 (14±5%)
4	PX4	A	377	-	51,53,53	1.51±0.14	9±2 (18±4%)
4	PX4	A	385	-	51,53,53	1.51±0.13	9±2 (17±3%)
4	PX4	A	321	-	51,53,53	1.49±0.11	9±2 (16±3%)
4	PX4	A	406	-	51,53,53	1.48±0.14	8±2 (16±4%)
4	PX4	A	375	-	51,53,53	1.53±0.15	10±2 (18±4%)
4	PX4	A	430	-	51,53,53	1.43±0.17	8±2 (15±4%)
4	PX4	A	336	-	51,53,53	1.54±0.18	9±2 (17±4%)
4	PX4	A	325	-	51,53,53	1.53±0.16	10±2 (18±4%)
4	PX4	A	418	-	51,53,53	1.55±0.16	10±2 (18±3%)
4	PX4	A	410	-	51,53,53	1.46±0.11	8±2 (16±4%)
4	PX4	A	334	-	51,53,53	1.48±0.13	9±2 (17±4%)
4	PX4	A	407	-	51,53,53	1.50±0.16	9±3 (17±5%)
4	PX4	A	402	-	51,53,53	1.54±0.15	9±2 (18±4%)
4	PX4	A	318	-	51,53,53	1.49±0.15	9±3 (17±5%)
4	PX4	A	421	-	51,53,53	1.53±0.18	9±3 (17±6%)
4	PX4	A	387	-	51,53,53	1.55±0.11	10±2 (18±3%)
4	PX4	A	309	-	51,53,53	1.54±0.15	9±2 (18±3%)

Mol	Type	Chain	Res	Link	Counts	Bond angles	
						RMSZ	#Z>2
4	PX4	A	320	-	51,53,53	1.49±0.13	10±2 (18±3%)
4	PX4	A	371	-	51,53,53	1.50±0.13	9±2 (18±4%)
4	PX4	A	369	-	51,53,53	1.46±0.08	8±2 (16±3%)
4	PX4	A	386	-	51,53,53	1.50±0.11	9±2 (18±3%)
4	PX4	A	422	-	51,53,53	1.46±0.13	8±2 (16±4%)
4	PX4	A	366	-	51,53,53	1.44±0.14	8±2 (16±4%)
4	PX4	A	343	-	51,53,53	1.56±0.14	11±3 (20±4%)
4	PX4	A	314	-	51,53,53	1.50±0.14	9±3 (18±5%)
4	PX4	A	416	-	51,53,53	1.54±0.15	10±3 (19±5%)
4	PX4	A	331	-	51,53,53	1.54±0.16	10±2 (19±4%)
5	C3S	A	432	-	51,55,55	2.61±0.18	20±3 (38±6%)
4	PX4	A	413	-	51,53,53	1.50±0.15	10±3 (19±5%)
4	PX4	A	374	-	51,53,53	1.48±0.14	9±2 (17±4%)
4	PX4	A	305	-	51,53,53	1.46±0.09	9±2 (16±3%)
4	PX4	A	372	-	51,53,53	1.53±0.19	9±2 (18±4%)
4	PX4	A	347	-	51,53,53	1.53±0.15	10±3 (19±4%)
4	PX4	A	379	-	51,53,53	1.50±0.14	9±2 (17±4%)
4	PX4	A	360	-	51,53,53	1.49±0.16	9±2 (16±4%)
4	PX4	A	429	-	51,53,53	1.50±0.14	9±2 (17±3%)
4	PX4	A	428	-	51,53,53	1.44±0.16	8±3 (16±5%)
4	PX4	A	341	-	51,53,53	1.48±0.19	9±3 (17±5%)
4	PX4	A	391	-	51,53,53	1.47±0.12	9±2 (17±4%)
4	PX4	A	382	-	51,53,53	1.49±0.11	8±2 (16±3%)
4	PX4	A	356	-	51,53,53	1.56±0.15	10±2 (19±3%)
4	PX4	A	378	-	51,53,53	1.50±0.19	9±3 (17±5%)
4	PX4	A	317	-	51,53,53	1.44±0.15	8±2 (15±4%)
4	PX4	A	316	-	51,53,53	1.49±0.13	9±2 (17±4%)
4	PX4	A	338	-	51,53,53	1.49±0.19	10±3 (18±5%)
4	PX4	A	330	-	51,53,53	1.55±0.12	9±2 (18±4%)
4	PX4	A	383	-	51,53,53	1.47±0.17	9±3 (16±6%)
4	PX4	A	367	-	51,53,53	1.51±0.14	8±2 (16±4%)
4	PX4	A	395	-	51,53,53	1.54±0.16	9±3 (18±5%)
4	PX4	A	426	-	51,53,53	1.44±0.16	8±2 (15±4%)
4	PX4	A	373	-	51,53,53	1.48±0.16	8±2 (16±3%)
4	PX4	A	328	-	51,53,53	1.54±0.18	11±3 (20±6%)

Mol	Type	Chain	Res	Link	Counts	Bond angles	
						RMSZ	#Z>2
4	PX4	A	420	-	51,53,53	1.48±0.14	8±2 (16±4%)
4	PX4	A	313	-	51,53,53	1.49±0.14	9±2 (17±3%)
4	PX4	A	404	-	51,53,53	1.44±0.14	8±2 (16±4%)
4	PX4	A	424	-	51,53,53	1.46±0.19	9±2 (16±3%)
4	PX4	A	384	-	51,53,53	1.52±0.16	10±3 (19±5%)
4	PX4	A	389	-	51,53,53	1.47±0.13	8±2 (16±4%)
4	PX4	A	427	-	51,53,53	1.50±0.18	9±3 (17±6%)
4	PX4	A	359	-	51,53,53	1.52±0.13	9±3 (18±5%)
4	PX4	A	390	-	51,53,53	1.48±0.12	8±2 (16±4%)
4	PX4	A	339	-	51,53,53	1.42±0.14	8±2 (14±4%)
4	PX4	A	365	-	51,53,53	1.49±0.14	9±2 (17±4%)
4	PX4	A	380	-	51,53,53	1.46±0.12	8±2 (16±3%)
4	PX4	A	364	-	51,53,53	1.51±0.14	9±3 (18±5%)
4	PX4	A	340	-	51,53,53	1.48±0.14	9±2 (17±4%)
4	PX4	A	403	-	51,53,53	1.47±0.11	8±2 (16±4%)
5	C3S	A	433	-	51,55,55	2.66±0.31	19±3 (37±6%)
4	PX4	A	351	-	51,53,53	1.44±0.14	8±2 (15±4%)
4	PX4	A	417	-	51,53,53	1.52±0.13	10±2 (18±4%)
4	PX4	A	326	-	51,53,53	1.52±0.13	9±3 (18±5%)
4	PX4	A	423	-	51,53,53	1.46±0.14	9±2 (17±3%)
4	PX4	A	409	-	51,53,53	1.55±0.15	10±3 (19±5%)
4	PX4	A	394	-	51,53,53	1.49±0.15	9±3 (17±5%)
4	PX4	A	415	-	51,53,53	1.52±0.14	9±2 (17±4%)
4	PX4	A	388	-	51,53,53	1.46±0.11	8±2 (16±4%)
4	PX4	A	312	-	51,53,53	1.48±0.15	9±3 (16±5%)
4	PX4	A	308	-	51,53,53	1.48±0.16	8±2 (15±3%)
4	PX4	A	412	-	51,53,53	1.48±0.17	9±2 (17±4%)
4	PX4	A	348	-	51,53,53	1.50±0.12	9±2 (17±4%)
4	PX4	A	306	-	51,53,53	1.54±0.13	9±2 (17±3%)
4	PX4	A	324	-	51,53,53	1.49±0.17	9±2 (18±4%)
4	PX4	A	315	-	51,53,53	1.45±0.11	9±2 (17±4%)
4	PX4	A	419	-	51,53,53	1.55±0.12	10±2 (19±4%)
4	PX4	A	368	-	51,53,53	1.48±0.12	8±2 (16±4%)
4	PX4	A	361	-	51,53,53	1.48±0.18	9±3 (17±5%)
4	PX4	A	357	-	51,53,53	1.58±0.14	9±2 (18±4%)

Mol	Type	Chain	Res	Link	Counts	Bond angles	
						RMSZ	#Z>2
4	PX4	A	311	-	51,53,53	1.50±0.15	9±3 (18±5%)
4	PX4	A	362	-	51,53,53	1.44±0.13	8±3 (15±5%)
4	PX4	A	405	-	51,53,53	1.55±0.13	10±3 (19±5%)
4	PX4	A	363	-	51,53,53	1.46±0.15	9±3 (18±5%)
4	PX4	A	396	-	51,53,53	1.45±0.14	9±2 (16±4%)
4	PX4	A	342	-	51,53,53	1.49±0.16	9±3 (17±5%)
4	PX4	A	353	-	51,53,53	1.53±0.19	10±3 (19±6%)
4	PX4	A	345	-	51,53,53	1.49±0.16	8±2 (16±3%)
4	PX4	A	408	-	51,53,53	1.49±0.21	8±3 (16±5%)
4	PX4	A	411	-	51,53,53	1.51±0.16	10±3 (18±5%)
4	PX4	A	399	-	51,53,53	1.52±0.15	10±3 (19±5%)
4	PX4	A	352	-	51,53,53	1.50±0.12	9±2 (17±3%)
4	PX4	A	381	-	51,53,53	1.57±0.16	10±3 (19±5%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	PX4	A	349	-	-	0±0,49,49,49	-
4	PX4	A	322	-	-	0±0,49,49,49	-
4	PX4	A	375	-	-	0±0,49,49,49	-
4	PX4	A	325	-	-	0±0,49,49,49	-
4	PX4	A	358	-	-	0±0,49,49,49	-
4	PX4	A	406	-	-	0±0,49,49,49	-
4	PX4	A	387	-	-	0±0,49,49,49	-
4	PX4	A	317	-	-	0±0,49,49,49	-
4	PX4	A	391	-	-	0±0,49,49,49	-
4	PX4	A	424	-	-	0±0,49,49,49	-
4	PX4	A	384	-	-	0±0,49,49,49	-
4	PX4	A	326	-	-	0±0,49,49,49	-
4	PX4	A	392	-	-	0±0,49,49,49	-
4	PX4	A	361	-	-	0±0,49,49,49	-
5	C3S	A	434	-	1±0,1,12,12	0±0,15,73,73	0±0,4,4,4
4	PX4	A	366	-	-	0±0,49,49,49	-
4	PX4	A	320	-	-	0±0,49,49,49	-
4	PX4	A	321	-	-	0±0,49,49,49	-
4	PX4	A	411	-	-	0±0,49,49,49	-
4	PX4	A	343	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	PX4	A	370	-	-	0±0,49,49,49	-
4	PX4	A	376	-	-	0±0,49,49,49	-
4	PX4	A	393	-	-	0±0,49,49,49	-
4	PX4	A	421	-	-	0±0,49,49,49	-
4	PX4	A	420	-	-	0±0,49,49,49	-
4	PX4	A	333	-	-	0±0,49,49,49	-
4	PX4	A	386	-	-	0±0,49,49,49	-
4	PX4	A	408	-	-	0±0,49,49,49	-
4	PX4	A	332	-	-	0±0,49,49,49	-
4	PX4	A	404	-	-	0±0,49,49,49	-
4	PX4	A	338	-	-	0±0,49,49,49	-
4	PX4	A	371	-	-	0±0,49,49,49	-
4	PX4	A	314	-	-	0±0,49,49,49	-
4	PX4	A	378	-	-	0±0,49,49,49	-
4	PX4	A	351	-	-	0±0,49,49,49	-
4	PX4	A	402	-	-	0±0,49,49,49	-
4	PX4	A	379	-	-	0±0,49,49,49	-
4	PX4	A	394	-	-	0±0,49,49,49	-
4	PX4	A	374	-	-	0±0,49,49,49	-
4	PX4	A	396	-	-	0±0,49,49,49	-
4	PX4	A	362	-	-	0±0,49,49,49	-
4	PX4	A	363	-	-	0±0,49,49,49	-
4	PX4	A	346	-	-	0±0,49,49,49	-
4	PX4	A	416	-	-	0±0,49,49,49	-
4	PX4	A	429	-	-	0±0,49,49,49	-
4	PX4	A	385	-	-	0±0,49,49,49	-
4	PX4	A	381	-	-	0±0,49,49,49	-
4	PX4	A	367	-	-	0±0,49,49,49	-
4	PX4	A	395	-	-	0±0,49,49,49	-
4	PX4	A	390	-	-	0±0,49,49,49	-
4	PX4	A	310	-	-	0±0,49,49,49	-
4	PX4	A	311	-	-	0±0,49,49,49	-
4	PX4	A	360	-	-	0±0,49,49,49	-
4	PX4	A	307	-	-	0±0,49,49,49	-
4	PX4	A	306	-	-	0±0,49,49,49	-
5	C3S	A	431	-	2±0,2,12,12	0±0,15,73,73	0±0,4,4,4
4	PX4	A	430	-	-	0±0,49,49,49	-
4	PX4	A	372	-	-	0±0,49,49,49	-
4	PX4	A	369	-	-	0±0,49,49,49	-
4	PX4	A	341	-	-	0±0,49,49,49	-
4	PX4	A	356	-	-	1±0,49,49,49	-
4	PX4	A	348	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	PX4	A	318	-	-	0±0,49,49,49	-
4	PX4	A	401	-	-	0±0,49,49,49	-
4	PX4	A	355	-	-	0±0,49,49,49	-
4	PX4	A	353	-	-	0±0,49,49,49	-
4	PX4	A	399	-	-	0±0,49,49,49	-
4	PX4	A	357	-	-	0±0,49,49,49	-
4	PX4	A	328	-	-	0±0,49,49,49	-
4	PX4	A	397	-	-	0±0,49,49,49	-
4	PX4	A	339	-	-	0±0,49,49,49	-
4	PX4	A	365	-	-	0±0,49,49,49	-
4	PX4	A	426	-	-	0±0,49,49,49	-
4	PX4	A	428	-	-	0±0,49,49,49	-
4	PX4	A	382	-	-	0±0,49,49,49	-
5	C3S	A	433	-	1±0,1,12,12	0±0,15,73,73	0±0,4,4,4
4	PX4	A	324	-	-	0±0,49,49,49	-
4	PX4	A	345	-	-	0±0,49,49,49	-
4	PX4	A	425	-	-	0±0,49,49,49	-
5	C3S	A	435	-	2±0,2,12,12	0±0,15,73,73	0±0,4,4,4
4	PX4	A	337	-	-	0±0,49,49,49	-
4	PX4	A	327	-	-	0±0,49,49,49	-
4	PX4	A	354	-	-	0±0,49,49,49	-
4	PX4	A	308	-	-	0±0,49,49,49	-
5	C3S	A	436	-	2±0,2,12,12	0±0,15,73,73	0±0,4,4,4
4	PX4	A	359	-	-	0±0,49,49,49	-
4	PX4	A	323	-	-	0±0,49,49,49	-
4	PX4	A	400	-	-	0±0,49,49,49	-
4	PX4	A	336	-	-	0±0,49,49,49	-
4	PX4	A	331	-	-	0±0,49,49,49	-
4	PX4	A	350	-	-	0±0,49,49,49	-
4	PX4	A	347	-	-	0±0,49,49,49	-
4	PX4	A	422	-	-	0±0,49,49,49	-
4	PX4	A	398	-	-	0±0,49,49,49	-
4	PX4	A	334	-	-	0±0,49,49,49	-
4	PX4	A	315	-	-	0±0,49,49,49	-
4	PX4	A	316	-	-	0±0,49,49,49	-
4	PX4	A	412	-	-	0±0,49,49,49	-
4	PX4	A	340	-	-	0±0,49,49,49	-
4	PX4	A	405	-	-	0±0,49,49,49	-
4	PX4	A	389	-	-	0±0,49,49,49	-
4	PX4	A	368	-	-	0±0,49,49,49	-
4	PX4	A	342	-	-	0±0,49,49,49	-
4	PX4	A	373	-	-	0±0,49,49,49	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	PX4	A	352	-	-	0±0,49,49,49	-
4	PX4	A	335	-	-	0±0,49,49,49	-
4	PX4	A	313	-	-	0±0,49,49,49	-
4	PX4	A	344	-	-	0±0,49,49,49	-
4	PX4	A	418	-	-	0±0,49,49,49	-
4	PX4	A	319	-	-	0±0,49,49,49	-
4	PX4	A	309	-	-	0±0,49,49,49	-
4	PX4	A	419	-	-	0±0,49,49,49	-
4	PX4	A	417	-	-	0±0,49,49,49	-
4	PX4	A	409	-	-	0±0,49,49,49	-
4	PX4	A	388	-	-	0±0,49,49,49	-
4	PX4	A	377	-	-	1±0,49,49,49	-
4	PX4	A	312	-	-	0±0,49,49,49	-
4	PX4	A	427	-	-	0±0,49,49,49	-
4	PX4	A	383	-	-	0±0,49,49,49	-
4	PX4	A	329	-	-	0±0,49,49,49	-
4	PX4	A	305	-	-	0±0,49,49,49	-
4	PX4	A	410	-	-	0±0,49,49,49	-
4	PX4	A	413	-	-	0±0,49,49,49	-
4	PX4	A	423	-	-	0±0,49,49,49	-
5	C3S	A	432	-	1±0,1,12,12	0±0,15,73,73	0±0,4,4,4
4	PX4	A	330	-	-	0±0,49,49,49	-
4	PX4	A	380	-	-	0±0,49,49,49	-
4	PX4	A	364	-	-	0±0,49,49,49	-
4	PX4	A	415	-	-	0±0,49,49,49	-
4	PX4	A	414	-	-	0±0,49,49,49	-
4	PX4	A	403	-	-	0±0,49,49,49	-
4	PX4	A	407	-	-	0±0,49,49,49	-

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
5	A	434	C3S	O6-S1	6.50	1.76	1.57	7	20
5	A	435	C3S	O6-S1	6.48	1.76	1.57	14	20
5	A	432	C3S	O6-S1	6.48	1.76	1.57	3	20
5	A	436	C3S	O6-S1	6.48	1.76	1.57	7	20
5	A	433	C3S	O6-S1	6.48	1.76	1.57	12	20
5	A	431	C3S	O6-S1	6.47	1.76	1.57	14	20
5	A	433	C3S	O6-C7	2.40	1.43	1.48	19	20
5	A	435	C3S	O6-C7	2.40	1.43	1.48	19	20
5	A	431	C3S	O6-C7	2.39	1.43	1.48	6	20

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
5	A	434	C3S	O6-C7	2.39	1.43	1.48	3	20
5	A	436	C3S	O6-C7	2.36	1.43	1.48	7	20
5	A	432	C3S	O6-C7	2.35	1.43	1.48	19	20

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
5	A	433	C3S	C7-O6-S1	18.68	138.40	117.64	16	20
5	A	434	C3S	C7-O6-S1	16.04	135.46	117.64	17	20
5	A	435	C3S	C7-O6-S1	15.01	134.32	117.64	8	20
5	A	436	C3S	C7-O6-S1	14.44	133.69	117.64	7	19
5	A	432	C3S	C7-O6-S1	13.76	132.93	117.64	10	18
5	A	431	C3S	C7-O6-S1	12.44	131.46	117.64	14	19
5	A	432	C3S	C29-C38-C48	10.29	135.60	119.49	14	20
5	A	434	C3S	C29-C38-C48	9.34	134.12	119.49	15	16
5	A	433	C3S	O6-C7-C4	9.08	121.32	107.59	20	12
5	A	436	C3S	C50-C48-C38	8.78	126.36	112.92	16	17
5	A	431	C3S	C29-C38-C48	8.66	133.05	119.49	8	15
5	A	433	C3S	C29-C38-C48	8.49	132.78	119.49	18	19
5	A	431	C3S	C9-C12-C22	8.47	127.67	116.42	1	13
5	A	434	C3S	C23-C20-C22	8.18	123.85	113.08	13	12
5	A	436	C3S	O6-C7-C4	8.15	119.91	107.59	6	12
4	A	375	PX4	C8-C7-C6	8.07	92.71	111.79	11	13
5	A	436	C3S	C35-C38-C48	8.06	124.63	112.15	8	10
5	A	434	C3S	C40-C29-C30	8.03	126.70	111.71	12	15
4	A	308	PX4	C8-C7-C6	7.91	93.09	111.79	4	13
5	A	431	C3S	O6-C7-C4	7.72	119.26	107.59	12	11
5	A	436	C3S	C29-C38-C48	7.62	131.41	119.49	12	14
5	A	434	C3S	C40-C29-C26	7.61	98.57	110.59	16	12
5	A	435	C3S	C9-C12-C22	7.50	126.38	116.42	13	19
5	A	435	C3S	C20-C18-C30	7.49	119.12	109.09	10	9
5	A	434	C3S	C9-C12-C22	7.47	126.34	116.42	15	18
4	A	381	PX4	O7-C23-C24	7.45	127.55	111.50	17	9
5	A	435	C3S	C29-C38-C48	7.36	131.02	119.49	14	18
5	A	434	C3S	O6-C7-C4	7.28	118.60	107.59	2	11
5	A	432	C3S	C9-C12-C22	7.22	126.01	116.42	18	17
4	A	354	PX4	C8-C7-C6	7.21	94.73	111.79	15	10
5	A	433	C3S	C54-C48-C38	7.21	125.18	110.28	14	17
4	A	391	PX4	C8-C7-C6	7.16	94.84	111.79	3	10
4	A	337	PX4	C8-C7-C6	7.15	94.87	111.79	2	15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	353	PX4	O7-C23-C24	7.11	126.83	111.50	17	11
5	A	436	C3S	C50-C48-C54	7.10	99.24	110.36	9	8
5	A	432	C3S	O6-C7-C4	7.08	118.29	107.59	19	11
4	A	406	PX4	C8-C7-C6	7.05	95.12	111.79	12	10
5	A	432	C3S	C50-C48-C54	7.02	99.36	110.36	12	11
4	A	424	PX4	C7-O7-C23	7.00	135.03	117.79	18	8
5	A	435	C3S	C7-C9-C12	6.94	122.30	111.52	11	9
5	A	436	C3S	C9-C12-C22	6.92	125.61	116.42	9	14
5	A	431	C3S	C35-C38-C29	6.90	95.53	103.84	8	16
5	A	435	C3S	C44-C22-C20	6.87	119.87	111.68	1	11
5	A	432	C3S	C44-C22-C20	6.85	119.85	111.68	18	9
4	A	325	PX4	O7-C23-C24	6.84	126.24	111.50	8	11
4	A	426	PX4	O5-C8-C7	6.83	128.32	108.43	6	13
4	A	376	PX4	O5-C8-C7	6.79	128.20	108.43	7	13
4	A	376	PX4	C8-C7-C6	6.73	95.86	111.79	3	14
4	A	367	PX4	O7-C23-C24	6.72	125.98	111.50	8	7
5	A	431	C3S	C15-C18-C20	6.71	101.58	109.71	18	9
4	A	376	PX4	C7-O7-C23	6.63	134.12	117.79	7	8
4	A	407	PX4	C8-C7-C6	6.57	96.25	111.79	3	10
4	A	317	PX4	C8-C7-C6	6.56	96.27	111.79	17	9
4	A	376	PX4	O7-C23-C24	6.56	125.64	111.50	3	13
4	A	345	PX4	O7-C23-C24	6.53	125.57	111.50	1	9
4	A	324	PX4	O5-C8-C7	6.52	127.42	108.43	19	13
4	A	423	PX4	O5-C8-C7	6.51	127.39	108.43	4	13
4	A	389	PX4	C8-C7-C6	6.51	96.40	111.79	6	11
5	A	432	C3S	C40-C29-C30	6.47	123.77	111.71	13	15
4	A	356	PX4	C7-O7-C23	6.45	133.68	117.79	7	14
5	A	434	C3S	C44-C22-C20	6.42	119.33	111.68	14	6
4	A	335	PX4	O7-C23-C24	6.41	125.32	111.50	5	9
5	A	434	C3S	C4-C7-C9	6.33	101.54	110.99	20	8
4	A	378	PX4	C8-C7-C6	6.30	96.88	111.79	17	10
4	A	413	PX4	C8-C7-C6	6.28	96.95	111.79	16	13
5	A	435	C3S	C40-C29-C26	6.25	100.72	110.59	7	13
4	A	333	PX4	C8-C7-C6	6.25	97.01	111.79	7	13
4	A	421	PX4	C8-C7-C6	6.22	97.07	111.79	9	10
4	A	328	PX4	O5-C8-C7	6.22	126.53	108.43	1	15
4	A	392	PX4	C7-O7-C23	6.20	133.05	117.79	16	4
4	A	403	PX4	C8-C7-C6	6.19	97.14	111.79	3	15
4	A	405	PX4	C8-C7-C6	6.18	97.17	111.79	10	14
4	A	406	PX4	O7-C23-O8	6.16	108.80	123.70	8	7
4	A	345	PX4	C8-C7-C6	6.16	97.23	111.79	10	14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	411	PX4	C8-C7-C6	6.14	97.27	111.79	17	16
4	A	400	PX4	C8-C7-C6	6.13	97.28	111.79	10	11
5	A	436	C3S	C9-C12-C13	6.13	111.77	120.61	9	9
5	A	431	C3S	C44-C22-C12	6.13	98.42	108.34	2	10
4	A	401	PX4	C8-C7-C6	6.12	97.32	111.79	17	13
5	A	435	C3S	C4-C7-C9	6.12	120.11	110.99	2	6
4	A	309	PX4	O7-C23-C24	6.10	124.64	111.50	7	11
5	A	433	C3S	C1-C4-C7	6.10	120.72	110.33	1	6
4	A	310	PX4	C5-N1-C4	6.09	93.31	108.97	5	6
4	A	336	PX4	C8-C7-C6	6.09	97.39	111.79	8	15
5	A	433	C3S	C44-C22-C12	6.09	98.49	108.34	10	10
4	A	417	PX4	C8-C7-C6	6.08	97.40	111.79	5	12
4	A	347	PX4	C7-O7-C23	6.08	132.76	117.79	18	6
4	A	336	PX4	O7-C23-C24	6.07	124.59	111.50	5	9
4	A	361	PX4	C8-C7-C6	6.07	97.43	111.79	8	10
4	A	395	PX4	O7-C23-O8	6.07	109.04	123.70	7	8
4	A	414	PX4	O5-C8-C7	6.07	126.09	108.43	19	13
5	A	436	C3S	C40-C29-C26	6.06	101.02	110.59	10	16
4	A	372	PX4	C8-C7-C6	6.05	97.48	111.79	13	13
4	A	312	PX4	C7-O7-C23	6.00	132.57	117.79	9	4
5	A	431	C3S	C40-C29-C26	5.99	101.12	110.59	17	15
5	A	436	C3S	C23-C20-C22	5.99	120.97	113.08	7	9
4	A	343	PX4	O7-C23-C24	5.99	124.42	111.50	6	15
5	A	434	C3S	C20-C18-C30	5.99	117.11	109.09	13	6
4	A	408	PX4	C8-C7-C6	5.97	97.66	111.79	4	9
5	A	434	C3S	C35-C38-C29	5.97	96.65	103.84	11	13
4	A	355	PX4	O7-C23-C24	5.96	124.35	111.50	19	8
5	A	434	C3S	C44-C22-C12	5.94	98.73	108.34	7	12
4	A	418	PX4	O5-C8-C7	5.94	125.72	108.43	13	11
5	A	435	C3S	C35-C38-C29	5.93	96.70	103.84	10	15
5	A	436	C3S	C20-C18-C30	5.91	117.00	109.09	18	10
5	A	436	C3S	C44-C22-C20	5.91	118.73	111.68	4	7
4	A	415	PX4	C5-N1-C4	5.90	93.79	108.97	2	8
4	A	388	PX4	C8-C7-C6	5.89	97.85	111.79	10	9
5	A	432	C3S	C44-C22-C12	5.88	98.82	108.34	7	13
5	A	431	C3S	C44-C22-C1	5.88	118.72	109.43	13	9
5	A	432	C3S	C54-C48-C38	5.88	122.42	110.28	4	17
5	A	432	C3S	C40-C29-C26	5.87	101.31	110.59	17	16
4	A	382	PX4	C8-C7-C6	5.87	97.90	111.79	2	14
4	A	401	PX4	O5-C8-C7	5.87	125.53	108.43	17	12
4	A	374	PX4	C7-O7-C23	5.87	132.25	117.79	14	14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	321	PX4	C8-C7-C6	5.87	97.91	111.79	17	13
4	A	307	PX4	C8-C7-C6	5.87	97.91	111.79	1	14
5	A	436	C3S	C44-C22-C12	5.87	98.85	108.34	13	11
4	A	430	PX4	C4-N1-C3	5.86	93.90	108.97	11	8
4	A	407	PX4	O7-C23-O8	5.86	109.54	123.70	14	12
4	A	421	PX4	C7-O7-C23	5.86	132.22	117.79	17	6
4	A	371	PX4	C8-C7-C6	5.86	97.93	111.79	2	15
4	A	311	PX4	O5-C8-C7	5.85	125.45	108.43	6	11
4	A	349	PX4	O3-P1-O2	5.85	86.22	109.07	3	3
4	A	373	PX4	C7-O7-C23	5.84	132.16	117.79	4	8
5	A	431	C3S	C50-C48-C38	5.84	121.86	112.92	5	8
4	A	336	PX4	O7-C23-O8	5.81	109.65	123.70	6	5
4	A	310	PX4	C7-O7-C23	5.81	132.10	117.79	18	5
4	A	404	PX4	O7-C23-C24	5.81	124.02	111.50	18	13
4	A	323	PX4	C5-N1-C4	5.80	94.05	108.97	4	5
4	A	336	PX4	O5-C8-C7	5.80	125.31	108.43	16	11
4	A	385	PX4	O5-C8-C7	5.80	125.31	108.43	15	9
4	A	394	PX4	O5-C8-C7	5.80	125.31	108.43	2	10
4	A	381	PX4	C5-N1-C4	5.79	94.09	108.97	9	13
5	A	433	C3S	C20-C18-C30	5.79	116.84	109.09	18	10
4	A	390	PX4	O7-C23-C24	5.78	123.96	111.50	11	9
4	A	388	PX4	C4-N1-C3	5.78	94.12	108.97	1	3
4	A	365	PX4	O5-C8-C7	5.77	125.22	108.43	4	9
4	A	378	PX4	C7-O7-C23	5.77	131.99	117.79	9	8
4	A	330	PX4	C7-O7-C23	5.76	131.97	117.79	7	4
4	A	312	PX4	C8-C7-C6	5.75	98.19	111.79	15	12
4	A	337	PX4	O7-C23-C24	5.75	123.89	111.50	14	9
4	A	365	PX4	C8-C7-C6	5.74	98.22	111.79	5	11
4	A	427	PX4	O7-C23-C24	5.74	123.87	111.50	18	12
4	A	352	PX4	O7-C23-C24	5.73	123.84	111.50	12	12
4	A	421	PX4	O5-C8-C7	5.72	125.08	108.43	3	12
5	A	433	C3S	C9-C12-C22	5.72	124.02	116.42	1	15
4	A	383	PX4	O5-C8-C7	5.72	125.07	108.43	6	12
4	A	412	PX4	C8-C7-C6	5.72	98.27	111.79	2	10
5	A	432	C3S	C15-C13-C12	5.71	114.53	125.06	3	7
5	A	435	C3S	C9-C12-C13	5.69	112.40	120.61	17	14
4	A	324	PX4	C7-O7-C23	5.69	131.80	117.79	15	8
4	A	346	PX4	O5-C8-C7	5.69	124.99	108.43	18	9
4	A	313	PX4	O7-C23-O8	5.68	109.98	123.70	4	6
4	A	418	PX4	C1-C2-N1	5.68	134.74	115.78	15	9
5	A	431	C3S	C1-C22-C20	5.67	116.65	108.73	9	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	405	PX4	O5-C8-C7	5.67	124.94	108.43	6	16
4	A	343	PX4	O5-C8-C7	5.66	124.91	108.43	17	14
4	A	324	PX4	C8-C7-C6	5.66	98.41	111.79	10	17
4	A	418	PX4	O7-C23-C24	5.66	123.69	111.50	14	15
4	A	402	PX4	C8-C7-C6	5.65	98.43	111.79	9	12
5	A	432	C3S	C22-C12-C13	5.64	114.27	122.90	17	10
4	A	349	PX4	O7-C23-C24	5.64	123.65	111.50	11	11
4	A	327	PX4	O7-C23-C24	5.63	123.64	111.50	19	8
4	A	410	PX4	O5-C8-C7	5.61	124.78	108.43	6	13
4	A	371	PX4	O7-C23-C24	5.61	123.60	111.50	13	11
4	A	316	PX4	O5-C8-C7	5.61	124.75	108.43	3	11
4	A	326	PX4	C8-C7-C6	5.61	98.53	111.79	11	12
4	A	354	PX4	O5-C8-C7	5.60	124.75	108.43	17	12
4	A	370	PX4	O5-C8-C7	5.60	124.73	108.43	19	13
4	A	394	PX4	C8-C7-C6	5.60	98.54	111.79	9	10
4	A	331	PX4	C8-C7-C6	5.60	98.55	111.79	19	10
4	A	426	PX4	O7-C23-C24	5.59	123.56	111.50	14	12
5	A	433	C3S	C40-C29-C30	5.59	122.14	111.71	6	11
4	A	393	PX4	O7-C23-C24	5.59	123.55	111.50	3	11
4	A	377	PX4	O7-C23-C24	5.59	123.54	111.50	18	14
4	A	413	PX4	O7-C23-C24	5.58	123.53	111.50	1	14
4	A	330	PX4	C8-C7-C6	5.57	98.62	111.79	3	14
4	A	313	PX4	O7-C23-C24	5.57	123.50	111.50	17	10
4	A	342	PX4	O5-C8-C7	5.56	124.62	108.43	6	10
4	A	360	PX4	C8-C7-C6	5.56	98.63	111.79	2	13
4	A	408	PX4	C7-O7-C23	5.56	131.48	117.79	17	4
5	A	432	C3S	C23-C20-C22	5.56	120.40	113.08	13	10
4	A	306	PX4	C8-C7-C6	5.55	98.65	111.79	1	13
4	A	309	PX4	O5-C8-C7	5.54	124.56	108.43	19	16
4	A	427	PX4	O5-C8-C7	5.54	124.56	108.43	9	14
4	A	419	PX4	C8-C7-C6	5.54	98.69	111.79	10	7
4	A	387	PX4	O5-C8-C7	5.51	124.49	108.43	19	9
4	A	311	PX4	C8-C7-C6	5.51	98.75	111.79	12	11
4	A	417	PX4	O7-C7-C8	5.51	128.35	108.40	1	6
4	A	316	PX4	O7-C23-O8	5.50	110.40	123.70	12	5
4	A	393	PX4	C8-C7-C6	5.50	98.78	111.79	3	14
4	A	401	PX4	O7-C23-C24	5.48	123.32	111.50	1	10
4	A	321	PX4	O5-C8-C7	5.48	124.39	108.43	17	8
5	A	434	C3S	C50-C48-C54	5.48	101.77	110.36	8	15
4	A	385	PX4	P1-O3-C1	5.47	94.64	121.59	16	15
4	A	368	PX4	O5-C8-C7	5.47	124.35	108.43	1	11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	397	PX4	O5-C8-C7	5.47	124.35	108.43	13	13
4	A	353	PX4	C8-C7-C6	5.46	98.87	111.79	16	12
4	A	416	PX4	O7-C23-C24	5.46	123.27	111.50	6	13
4	A	346	PX4	C7-O7-C23	5.46	131.22	117.79	15	8
4	A	392	PX4	C8-C7-C6	5.44	98.92	111.79	8	12
4	A	404	PX4	C7-O7-C23	5.44	131.19	117.79	13	6
4	A	372	PX4	O7-C23-C24	5.43	123.21	111.50	4	12
4	A	386	PX4	P1-O3-C1	5.43	94.84	121.59	20	16
4	A	329	PX4	O7-C23-C24	5.43	123.20	111.50	19	10
4	A	374	PX4	C4-N1-C3	5.43	95.01	108.97	1	2
4	A	395	PX4	O3-P1-O2	5.43	87.86	109.07	2	3
4	A	357	PX4	C8-C7-C6	5.42	98.96	111.79	9	11
4	A	312	PX4	O7-C23-C24	5.42	123.18	111.50	10	12
4	A	351	PX4	O7-C23-C24	5.42	123.17	111.50	11	10
4	A	332	PX4	C8-C7-C6	5.40	99.01	111.79	15	12
4	A	378	PX4	O3-P1-O2	5.40	87.96	109.07	7	7
4	A	306	PX4	O7-C23-C24	5.40	123.13	111.50	14	10
4	A	398	PX4	O5-C8-C7	5.39	124.14	108.43	16	10
4	A	402	PX4	C1-C2-N1	5.39	133.79	115.78	4	4
4	A	366	PX4	O7-C23-C24	5.39	123.11	111.50	7	9
4	A	403	PX4	C7-O7-C23	5.38	131.04	117.79	4	6
4	A	428	PX4	C5-N1-C3	5.38	95.14	108.97	8	8
4	A	320	PX4	O5-C8-C7	5.38	124.09	108.43	6	15
4	A	342	PX4	C8-C7-C6	5.38	99.07	111.79	15	11
4	A	309	PX4	C8-C7-C6	5.37	99.08	111.79	13	12
5	A	433	C3S	C20-C22-C12	5.37	118.08	109.65	20	9
5	A	435	C3S	C40-C29-C30	5.36	121.71	111.71	20	13
4	A	316	PX4	O7-C23-C24	5.36	123.05	111.50	12	9
4	A	413	PX4	C5-N1-C3	5.36	95.19	108.97	9	9
4	A	328	PX4	C8-C7-C6	5.36	99.12	111.79	3	12
5	A	432	C3S	C20-C22-C12	5.36	118.05	109.65	8	7
4	A	401	PX4	P1-O3-C1	5.35	95.27	121.59	16	14
4	A	309	PX4	C5-N1-C4	5.34	95.24	108.97	12	5
4	A	364	PX4	O7-C23-C24	5.33	123.00	111.50	14	12
4	A	399	PX4	C8-C7-C6	5.33	99.17	111.79	1	14
4	A	327	PX4	C8-C7-C6	5.33	99.18	111.79	15	11
4	A	357	PX4	C7-O7-C23	5.32	130.88	117.79	10	7
4	A	380	PX4	C5-N1-C4	5.32	95.30	108.97	20	5
4	A	386	PX4	C8-C7-C6	5.32	99.21	111.79	8	12
4	A	338	PX4	O5-C8-C7	5.31	123.90	108.43	15	9
4	A	306	PX4	O7-C7-C6	5.31	127.61	108.40	18	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	362	PX4	O5-C8-C7	5.30	123.87	108.43	1	7
5	A	435	C3S	C26-C29-C30	5.30	99.04	107.27	8	9
4	A	334	PX4	C8-C7-C6	5.30	99.25	111.79	18	12
4	A	306	PX4	C7-O7-C23	5.30	130.83	117.79	12	13
4	A	379	PX4	C8-C7-C6	5.29	99.27	111.79	12	9
4	A	382	PX4	C5-N1-C4	5.29	95.37	108.97	20	5
4	A	352	PX4	C8-C7-C6	5.28	99.30	111.79	4	12
4	A	384	PX4	P1-O3-C1	5.28	95.60	121.59	5	16
4	A	396	PX4	C8-C7-C6	5.28	99.30	111.79	10	13
4	A	348	PX4	O7-C23-C24	5.27	122.86	111.50	2	13
4	A	387	PX4	C7-O7-C23	5.27	130.76	117.79	12	4
4	A	314	PX4	C8-C7-C6	5.27	99.33	111.79	1	13
4	A	341	PX4	O7-C23-C24	5.27	122.85	111.50	10	10
4	A	369	PX4	O7-C23-C24	5.27	122.85	111.50	6	10
4	A	417	PX4	O5-C8-C7	5.26	123.75	108.43	7	8
4	A	332	PX4	O7-C7-C8	5.25	127.43	108.40	20	6
4	A	420	PX4	C8-C7-C6	5.25	99.37	111.79	14	11
5	A	432	C3S	C26-C29-C38	5.24	108.72	116.57	13	7
5	A	431	C3S	C23-C20-C22	5.24	119.98	113.08	15	12
4	A	349	PX4	O5-C9-O6	5.23	110.39	123.59	15	4
4	A	425	PX4	C8-C7-C6	5.23	99.41	111.79	3	12
4	A	393	PX4	O5-C8-C7	5.23	123.65	108.43	17	11
4	A	406	PX4	O5-C8-C7	5.23	123.65	108.43	2	9
4	A	309	PX4	O7-C23-O8	5.23	111.07	123.70	12	9
4	A	335	PX4	C5-N1-C3	5.23	95.53	108.97	1	5
5	A	433	C3S	C9-C12-C13	5.23	113.08	120.61	5	9
5	A	435	C3S	O6-C7-C4	5.23	99.68	107.59	13	8
4	A	308	PX4	C7-O7-C23	5.23	130.66	117.79	20	6
5	A	435	C3S	C35-C38-C48	5.22	120.23	112.15	20	8
4	A	359	PX4	C8-C7-C6	5.22	99.44	111.79	15	14
4	A	416	PX4	O7-C23-O8	5.22	111.08	123.70	11	8
4	A	419	PX4	O7-C23-C24	5.22	122.75	111.50	14	12
5	A	432	C3S	C1-C4-C7	5.21	119.22	110.33	20	5
5	A	432	C3S	C29-C30-C18	5.21	122.10	114.38	19	3
4	A	344	PX4	C8-C7-C6	5.21	99.47	111.79	15	10
4	A	396	PX4	O5-C8-C7	5.20	123.58	108.43	3	12
4	A	392	PX4	O5-C8-C7	5.20	123.58	108.43	6	9
4	A	409	PX4	C8-C7-C6	5.20	99.50	111.79	4	16
4	A	311	PX4	O7-C23-C24	5.19	122.69	111.50	14	16
4	A	390	PX4	O5-C8-C7	5.19	123.54	108.43	10	15
4	A	326	PX4	C7-O7-C23	5.19	130.56	117.79	2	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	317	PX4	P1-O4-C6	5.19	91.27	121.68	8	13
4	A	334	PX4	O5-C8-C7	5.19	123.53	108.43	15	8
4	A	419	PX4	O3-P1-O2	5.19	88.81	109.07	1	8
5	A	433	C3S	C44-C22-C20	5.19	117.86	111.68	5	6
5	A	433	C3S	C50-C48-C38	5.18	104.98	112.92	12	8
4	A	305	PX4	C5-N1-C4	5.18	95.66	108.97	2	5
4	A	344	PX4	O5-C8-C7	5.18	123.51	108.43	1	9
4	A	317	PX4	O5-C8-C7	5.18	123.50	108.43	2	11
4	A	383	PX4	C8-C7-C6	5.18	99.54	111.79	18	8
4	A	356	PX4	C8-C7-C6	5.17	99.56	111.79	13	12
4	A	421	PX4	O5-C9-O6	5.17	110.54	123.59	1	6
4	A	379	PX4	O7-C7-C8	5.16	127.10	108.40	10	10
5	A	431	C3S	C44-C22-C20	5.16	117.84	111.68	1	11
4	A	321	PX4	C7-O7-C23	5.16	130.50	117.79	1	6
4	A	335	PX4	C8-C7-C6	5.16	99.59	111.79	8	11
5	A	436	C3S	C15-C18-C20	5.16	115.96	109.71	6	3
4	A	422	PX4	C8-C7-C6	5.16	99.59	111.79	11	10
4	A	358	PX4	C8-C7-C6	5.15	99.60	111.79	12	15
4	A	420	PX4	O7-C23-C24	5.15	122.60	111.50	19	10
4	A	375	PX4	O7-C23-C24	5.15	122.59	111.50	18	10
4	A	311	PX4	O7-C7-C6	5.14	127.02	108.40	12	6
4	A	331	PX4	O7-C23-C24	5.14	122.58	111.50	13	15
4	A	408	PX4	O5-C8-C7	5.13	123.38	108.43	7	9
4	A	327	PX4	C7-O7-C23	5.13	105.16	117.79	5	7
5	A	433	C3S	C40-C29-C26	5.12	102.50	110.59	16	16
4	A	361	PX4	O7-C23-C24	5.12	122.53	111.50	8	11
5	A	436	C3S	C7-C9-C12	5.12	119.47	111.52	1	9
4	A	339	PX4	O7-C23-C24	5.11	122.52	111.50	10	10
5	A	436	C3S	C23-C26-C29	5.11	121.54	112.78	7	7
5	A	434	C3S	C7-C9-C12	5.10	119.45	111.52	14	4
4	A	329	PX4	C8-C7-C6	5.10	99.74	111.79	12	15
5	A	431	C3S	C20-C18-C30	5.10	115.91	109.09	16	10
4	A	422	PX4	O5-C8-C7	5.09	123.26	108.43	4	7
4	A	312	PX4	O5-C8-C7	5.09	123.25	108.43	5	7
5	A	434	C3S	C4-C1-C22	5.09	123.76	112.74	7	12
4	A	377	PX4	C8-C7-C6	5.08	99.76	111.79	7	8
4	A	412	PX4	O7-C23-C24	5.08	122.45	111.50	1	9
4	A	397	PX4	C7-O7-C23	5.08	130.29	117.79	10	7
4	A	417	PX4	O7-C23-C24	5.07	122.44	111.50	16	11
5	A	431	C3S	C1-C22-C12	5.06	118.02	108.75	3	6
4	A	351	PX4	C8-C7-C6	5.06	99.83	111.79	13	14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	371	PX4	O5-C8-C7	5.05	123.15	108.43	10	13
4	A	370	PX4	C8-C7-C6	5.05	99.84	111.79	16	14
4	A	419	PX4	O5-C8-C7	5.05	123.13	108.43	20	7
4	A	424	PX4	O3-P1-O2	5.05	89.34	109.07	18	7
4	A	339	PX4	P1-O3-C1	5.04	96.76	121.59	18	14
4	A	360	PX4	O5-C8-C7	5.04	123.10	108.43	4	13
4	A	354	PX4	O7-C23-O8	5.03	111.55	123.70	1	7
4	A	367	PX4	P1-O3-C1	5.03	96.83	121.59	6	14
4	A	344	PX4	O7-C7-C8	5.02	126.59	108.40	11	7
4	A	320	PX4	C8-C7-C6	5.02	99.91	111.79	7	14
4	A	401	PX4	C5-N1-C4	5.02	96.06	108.97	18	6
4	A	334	PX4	C4-N1-C3	5.01	96.10	108.97	15	5
4	A	350	PX4	C8-C7-C6	5.01	99.94	111.79	8	13
4	A	419	PX4	O1-P1-O3	5.00	84.50	107.75	18	1
4	A	404	PX4	C8-C7-C6	5.00	99.96	111.79	8	11
4	A	428	PX4	C7-O7-C23	5.00	130.11	117.79	7	6
4	A	340	PX4	O5-C8-C7	5.00	122.99	108.43	9	17
4	A	402	PX4	C7-O7-C23	5.00	130.09	117.79	13	10
4	A	340	PX4	C8-C7-C6	4.99	99.97	111.79	9	12
4	A	325	PX4	O5-C8-C7	4.99	122.96	108.43	20	12
4	A	372	PX4	O5-C8-C7	4.99	122.95	108.43	4	12
4	A	388	PX4	C26-C25-C24	4.99	95.26	113.19	10	5
4	A	357	PX4	O7-C23-C24	4.99	122.25	111.50	17	8
4	A	332	PX4	O5-C8-C7	4.98	122.94	108.43	3	12
5	A	436	C3S	C32-C30-C29	4.98	97.84	103.84	5	8
4	A	318	PX4	O5-C8-C7	4.98	122.93	108.43	19	10
4	A	340	PX4	C1-C2-N1	4.98	132.40	115.78	13	4
4	A	345	PX4	P1-O3-C1	4.98	97.09	121.59	11	17
4	A	364	PX4	O5-C9-O6	4.98	111.03	123.59	19	5
4	A	384	PX4	C8-C7-C6	4.98	100.02	111.79	3	12
5	A	431	C3S	C1-C4-C7	4.98	118.81	110.33	3	6
4	A	355	PX4	C7-O7-C23	4.97	130.04	117.79	17	15
4	A	380	PX4	C8-C7-C6	4.97	100.02	111.79	11	9
4	A	411	PX4	O5-C8-C7	4.96	122.88	108.43	3	9
4	A	319	PX4	O7-C23-C24	4.96	122.19	111.50	4	13
5	A	436	C3S	C35-C38-C29	4.96	97.87	103.84	16	13
4	A	353	PX4	O5-C8-C7	4.95	122.85	108.43	16	14
4	A	427	PX4	C8-C7-C6	4.95	100.07	111.79	10	9
4	A	342	PX4	O5-C9-O6	4.95	111.10	123.59	9	8
4	A	372	PX4	O5-C9-O6	4.95	111.10	123.59	11	5
4	A	335	PX4	O7-C23-O8	4.95	111.75	123.70	12	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	332	PX4	P1-O3-C1	4.94	97.25	121.59	4	15
4	A	327	PX4	O7-C23-O8	4.94	111.76	123.70	9	7
4	A	379	PX4	O5-C8-C7	4.94	122.81	108.43	6	12
4	A	409	PX4	C5-N1-C3	4.94	96.27	108.97	20	3
4	A	310	PX4	C8-C7-C6	4.94	100.11	111.79	7	15
4	A	415	PX4	O3-P1-O2	4.94	89.77	109.07	13	8
4	A	366	PX4	C8-C7-C6	4.94	100.11	111.79	7	11
4	A	407	PX4	P1-O3-C1	4.94	97.29	121.59	10	15
4	A	330	PX4	O5-C8-C7	4.93	122.79	108.43	18	15
4	A	383	PX4	O7-C23-C24	4.93	122.13	111.50	10	10
5	A	435	C3S	C54-C48-C38	4.93	120.47	110.28	16	10
4	A	307	PX4	O5-C8-C7	4.93	122.78	108.43	4	11
4	A	329	PX4	O3-P1-O2	4.93	89.81	109.07	18	3
4	A	342	PX4	C1-C2-N1	4.93	132.23	115.78	16	8
4	A	368	PX4	O7-C23-C24	4.93	122.12	111.50	4	11
4	A	348	PX4	O3-P1-O2	4.92	89.84	109.07	13	4
4	A	430	PX4	O7-C23-C24	4.92	122.11	111.50	18	10
4	A	310	PX4	O7-C23-C24	4.92	122.10	111.50	7	11
4	A	362	PX4	C8-C7-C6	4.92	100.15	111.79	14	13
5	A	434	C3S	C20-C22-C12	4.92	117.36	109.65	7	9
4	A	308	PX4	O7-C23-C24	4.92	122.09	111.50	14	9
4	A	387	PX4	C8-C7-C6	4.92	100.16	111.79	15	8
4	A	395	PX4	C5-N1-C4	4.91	96.34	108.97	20	5
4	A	379	PX4	C7-O7-C23	4.91	129.89	117.79	7	8
4	A	397	PX4	C8-C7-C6	4.91	100.18	111.79	20	11
4	A	369	PX4	P1-O3-C1	4.90	97.45	121.59	17	13
4	A	373	PX4	C8-C7-C6	4.90	100.19	111.79	14	13
4	A	386	PX4	O7-C23-C24	4.90	122.07	111.50	2	10
4	A	423	PX4	C8-C7-C6	4.90	100.20	111.79	9	15
4	A	327	PX4	O5-C8-C7	4.90	122.69	108.43	11	11
4	A	385	PX4	O7-C23-O8	4.90	111.87	123.70	20	9
5	A	432	C3S	C4-C7-C9	4.89	103.70	110.99	16	11
4	A	343	PX4	C8-C7-C6	4.88	100.25	111.79	16	15
4	A	361	PX4	O5-C9-O6	4.88	111.28	123.59	15	6
4	A	389	PX4	O5-C8-C7	4.87	122.62	108.43	19	10
4	A	398	PX4	C8-C7-C6	4.88	100.26	111.79	2	12
4	A	381	PX4	C8-C7-C6	4.87	100.26	111.79	9	16
4	A	318	PX4	C8-C7-C6	4.87	100.27	111.79	17	16
4	A	325	PX4	C8-C7-C6	4.87	100.27	111.79	10	13
4	A	341	PX4	C8-C7-C6	4.87	100.27	111.79	14	14
4	A	328	PX4	O7-C7-C8	4.87	126.02	108.40	19	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
5	A	431	C3S	C35-C38-C48	4.86	104.62	112.15	4	11
4	A	407	PX4	O7-C23-C24	4.86	121.98	111.50	2	11
4	A	316	PX4	C7-O7-C23	4.86	129.75	117.79	17	8
4	A	360	PX4	O7-C23-C24	4.85	121.96	111.50	20	12
5	A	432	C3S	C15-C18-C20	4.85	103.83	109.71	18	11
4	A	412	PX4	P1-O3-C1	4.85	97.71	121.59	5	15
4	A	333	PX4	O7-C23-C24	4.85	121.95	111.50	12	8
5	A	435	C3S	C23-C20-C18	4.85	104.77	111.75	3	8
4	A	375	PX4	P1-O3-C1	4.85	97.72	121.59	12	15
4	A	352	PX4	O5-C8-C7	4.85	122.54	108.43	18	14
4	A	408	PX4	O7-C23-C24	4.84	121.94	111.50	17	6
4	A	412	PX4	O5-C8-C7	4.84	122.53	108.43	17	12
4	A	321	PX4	P1-O3-C1	4.84	97.76	121.59	7	15
4	A	393	PX4	C4-N1-C3	4.84	96.54	108.97	19	3
4	A	332	PX4	C5-N1-C3	4.83	96.55	108.97	8	7
5	A	435	C3S	C50-C48-C38	4.83	120.32	112.92	10	10
4	A	319	PX4	C8-C7-C6	4.83	100.36	111.79	13	12
4	A	328	PX4	C5-N1-C4	4.83	96.56	108.97	13	4
4	A	355	PX4	O5-C9-C10	4.83	127.06	111.91	19	3
5	A	433	C3S	C50-C48-C54	4.83	117.93	110.36	3	13
4	A	340	PX4	P1-O3-C1	4.82	97.84	121.59	13	16
4	A	416	PX4	C8-C7-C6	4.82	100.38	111.79	11	13
4	A	407	PX4	O5-C8-C7	4.82	122.47	108.43	18	9
4	A	384	PX4	C5-N1-C3	4.82	96.58	108.97	10	5
4	A	415	PX4	C7-O7-C23	4.82	129.66	117.79	13	5
5	A	435	C3S	C23-C26-C29	4.82	121.05	112.78	10	8
4	A	341	PX4	C5-N1-C3	4.82	96.58	108.97	13	4
4	A	365	PX4	P1-O3-C1	4.82	97.86	121.59	8	14
4	A	357	PX4	O7-C23-O8	4.82	112.06	123.70	9	6
4	A	326	PX4	O7-C23-C24	4.82	121.88	111.50	19	7
4	A	421	PX4	O3-P1-O2	4.81	90.25	109.07	14	7
4	A	321	PX4	O7-C23-C24	4.81	121.87	111.50	20	12
4	A	332	PX4	O7-C23-C24	4.81	121.87	111.50	7	6
4	A	354	PX4	O7-C23-C24	4.81	121.86	111.50	12	12
4	A	430	PX4	P1-O3-C1	4.81	97.93	121.59	4	14
5	A	434	C3S	C35-C38-C48	4.80	104.71	112.15	15	6
4	A	356	PX4	O5-C8-C7	4.80	122.40	108.43	20	14
4	A	393	PX4	C7-O7-C23	4.79	129.59	117.79	2	8
4	A	317	PX4	C4-N1-C3	4.79	96.66	108.97	9	4
4	A	319	PX4	P1-O3-C1	4.79	98.02	121.59	2	12
4	A	376	PX4	C4-N1-C3	4.78	121.28	108.97	6	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	410	PX4	C8-C7-C6	4.78	100.48	111.79	4	9
4	A	415	PX4	C5-N1-C3	4.78	96.68	108.97	13	8
4	A	357	PX4	C5-N1-C4	4.78	96.69	108.97	12	4
5	A	431	C3S	C40-C29-C30	4.78	120.63	111.71	15	17
4	A	422	PX4	O7-C23-O8	4.77	112.16	123.70	1	7
4	A	349	PX4	O5-C8-C7	4.77	122.32	108.43	11	9
4	A	316	PX4	P1-O3-C1	4.77	98.13	121.59	6	16
5	A	434	C3S	C18-C15-C13	4.76	105.89	112.73	14	5
5	A	433	C3S	C4-C7-C9	4.76	118.08	110.99	14	5
4	A	377	PX4	P1-O3-C1	4.76	98.16	121.59	2	14
4	A	418	PX4	C8-C7-C6	4.76	100.54	111.79	18	13
4	A	394	PX4	C5-N1-C4	4.75	96.76	108.97	14	8
4	A	399	PX4	O7-C23-C24	4.75	121.73	111.50	7	12
4	A	305	PX4	O7-C23-C24	4.75	121.73	111.50	10	10
4	A	395	PX4	C4-N1-C3	4.75	96.77	108.97	5	4
4	A	312	PX4	P1-O4-C6	4.74	93.87	121.68	1	12
4	A	365	PX4	C5-N1-C4	4.74	96.78	108.97	10	3
5	A	435	C3S	C32-C30-C29	4.74	98.13	103.84	8	6
4	A	375	PX4	O5-C8-C7	4.74	122.22	108.43	4	9
5	A	432	C3S	C18-C15-C13	4.74	105.93	112.73	2	7
4	A	322	PX4	C8-C7-C6	4.73	100.59	111.79	10	13
4	A	346	PX4	O5-C9-C10	4.73	126.76	111.91	19	6
4	A	358	PX4	C26-C25-C24	4.73	96.18	113.19	16	5
4	A	338	PX4	O7-C23-C24	4.73	121.69	111.50	4	9
4	A	357	PX4	O5-C8-C7	4.73	122.19	108.43	2	12
4	A	427	PX4	C7-O7-C23	4.73	129.43	117.79	3	7
4	A	348	PX4	C8-C7-C6	4.73	100.61	111.79	15	9
4	A	356	PX4	O1-P1-O3	4.72	85.80	107.75	17	2
4	A	313	PX4	O5-C9-O6	4.72	111.67	123.59	20	6
5	A	434	C3S	C15-C13-C12	4.72	116.35	125.06	14	8
4	A	395	PX4	O7-C23-C24	4.72	121.68	111.50	20	10
4	A	331	PX4	O5-C9-O6	4.72	111.68	123.59	12	6
4	A	373	PX4	O5-C8-C7	4.72	122.17	108.43	19	9
4	A	389	PX4	P1-O3-C1	4.72	98.36	121.59	7	15
4	A	365	PX4	O7-C23-C24	4.72	121.67	111.50	18	10
5	A	432	C3S	C50-C48-C38	4.71	105.70	112.92	15	7
4	A	369	PX4	O5-C8-C7	4.71	122.15	108.43	18	9
4	A	319	PX4	O5-C8-C7	4.71	122.14	108.43	8	11
4	A	381	PX4	O7-C7-C8	4.71	125.45	108.40	6	13
4	A	337	PX4	O5-C8-C7	4.70	122.12	108.43	3	10
4	A	373	PX4	C4-N1-C3	4.70	96.89	108.97	14	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	346	PX4	O7-C23-C24	4.70	121.63	111.50	4	9
4	A	398	PX4	O7-C23-O8	4.70	112.35	123.70	20	6
4	A	317	PX4	O7-C23-C24	4.70	121.62	111.50	16	7
4	A	367	PX4	O7-C7-C8	4.69	125.39	108.40	18	11
4	A	369	PX4	C8-C7-C6	4.69	100.70	111.79	3	9
5	A	432	C3S	C9-C12-C13	4.69	113.86	120.61	12	10
4	A	429	PX4	O7-C23-O8	4.68	112.39	123.70	13	6
5	A	431	C3S	C9-C12-C13	4.68	113.86	120.61	2	12
4	A	313	PX4	O3-P1-O2	4.68	90.78	109.07	12	5
4	A	391	PX4	O3-P1-O2	4.68	90.78	109.07	16	5
4	A	368	PX4	C1-C2-N1	4.68	131.39	115.78	2	6
4	A	410	PX4	O5-C9-O6	4.67	111.80	123.59	12	7
4	A	419	PX4	C7-O7-C23	4.67	129.30	117.79	9	11
4	A	393	PX4	C5-N1-C3	4.67	96.97	108.97	18	4
5	A	434	C3S	C50-C48-C38	4.67	105.78	112.92	10	7
4	A	324	PX4	P1-O3-C1	4.66	98.64	121.59	6	12
4	A	336	PX4	O7-C7-C8	4.66	125.26	108.40	9	11
5	A	432	C3S	C1-C22-C20	4.65	102.23	108.73	8	8
5	A	436	C3S	C23-C20-C18	4.65	105.06	111.75	19	6
4	A	340	PX4	O7-C23-C24	4.65	121.51	111.50	7	9
4	A	356	PX4	P1-O3-C1	4.65	98.72	121.59	17	17
4	A	404	PX4	O5-C8-C7	4.65	121.96	108.43	9	5
4	A	347	PX4	O7-C23-C24	4.64	121.51	111.50	15	7
4	A	356	PX4	O7-C23-C24	4.64	121.51	111.50	10	11
4	A	382	PX4	O7-C23-C24	4.64	121.51	111.50	7	8
4	A	366	PX4	O7-C23-O8	4.64	112.48	123.70	14	8
4	A	315	PX4	C8-C7-C6	4.64	100.82	111.79	19	10
4	A	341	PX4	C5-N1-C4	4.64	120.90	108.97	7	4
4	A	334	PX4	O7-C23-O8	4.63	112.50	123.70	18	7
4	A	341	PX4	C1-C2-N1	4.63	131.25	115.78	10	6
4	A	402	PX4	O5-C8-C7	4.63	121.92	108.43	9	11
4	A	429	PX4	C3-N1-C2	4.63	128.87	109.92	12	3
4	A	385	PX4	C8-C7-C6	4.63	100.83	111.79	9	12
4	A	358	PX4	O5-C8-C7	4.63	121.91	108.43	4	10
4	A	362	PX4	O3-P1-O2	4.63	90.98	109.07	16	5
4	A	367	PX4	O5-C8-C7	4.63	121.91	108.43	13	15
4	A	386	PX4	C7-O7-C23	4.63	106.39	117.79	3	8
4	A	309	PX4	O7-C7-C8	4.63	125.15	108.40	12	13
4	A	414	PX4	C8-C7-C6	4.62	100.85	111.79	20	15
4	A	342	PX4	O5-C9-C10	4.62	126.40	111.91	9	8
4	A	419	PX4	O5-C9-O6	4.62	111.94	123.59	7	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	330	PX4	P1-O3-C1	4.62	98.86	121.59	15	17
4	A	364	PX4	C8-C7-C6	4.61	100.88	111.79	14	15
4	A	379	PX4	O5-C9-O6	4.61	111.96	123.59	12	7
4	A	305	PX4	C7-O7-C23	4.61	129.14	117.79	6	5
4	A	408	PX4	O3-P1-O2	4.61	91.07	109.07	15	7
4	A	363	PX4	O7-C23-O8	4.60	112.59	123.70	16	8
5	A	432	C3S	C7-C9-C12	4.60	118.66	111.52	14	9
4	A	320	PX4	O3-P1-O2	4.59	91.13	109.07	3	4
4	A	321	PX4	C1-C2-N1	4.59	131.11	115.78	14	5
4	A	374	PX4	O7-C23-C24	4.59	121.40	111.50	9	12
4	A	314	PX4	P1-O3-C1	4.59	99.00	121.59	18	12
4	A	402	PX4	O7-C23-C24	4.59	121.39	111.50	17	7
4	A	337	PX4	P1-O3-C1	4.59	99.01	121.59	5	15
4	A	364	PX4	P1-O3-C1	4.59	99.01	121.59	12	13
4	A	396	PX4	C5-N1-C3	4.59	97.18	108.97	14	6
4	A	362	PX4	C7-O7-C23	4.58	129.08	117.79	15	1
4	A	367	PX4	O7-C23-O8	4.59	112.62	123.70	18	6
4	A	326	PX4	O5-C8-C7	4.58	121.77	108.43	4	7
5	A	431	C3S	C4-C7-C9	4.58	117.82	110.99	1	8
4	A	349	PX4	O7-C7-C8	4.58	124.99	108.40	12	6
4	A	311	PX4	P1-O3-C1	4.58	99.05	121.59	1	15
4	A	336	PX4	P1-O3-C1	4.58	99.05	121.59	7	18
4	A	426	PX4	C8-C7-C6	4.58	100.97	111.79	4	11
4	A	389	PX4	C7-O7-C23	4.57	129.05	117.79	15	5
4	A	348	PX4	O7-C7-C8	4.57	124.96	108.40	20	6
4	A	358	PX4	P1-O3-C1	4.57	99.08	121.59	16	15
4	A	386	PX4	O3-P1-O2	4.57	91.20	109.07	11	6
4	A	320	PX4	O7-C23-C24	4.57	121.35	111.50	6	8
4	A	414	PX4	O5-C9-O6	4.57	112.06	123.59	1	7
4	A	425	PX4	O5-C9-C10	4.57	126.25	111.91	20	7
4	A	366	PX4	C5-N1-C4	4.57	97.23	108.97	8	4
5	A	436	C3S	C1-C22-C20	4.57	115.11	108.73	9	7
4	A	405	PX4	P1-O3-C1	4.57	99.11	121.59	17	17
4	A	322	PX4	O7-C23-O8	4.56	112.67	123.70	19	10
4	A	315	PX4	O5-C8-C7	4.56	121.71	108.43	7	8
4	A	422	PX4	P1-O3-C1	4.56	99.14	121.59	8	16
4	A	360	PX4	O5-C9-O6	4.56	112.09	123.59	12	5
4	A	385	PX4	C5-N1-C3	4.56	120.69	108.97	14	6
5	A	431	C3S	C32-C30-C29	4.56	98.35	103.84	5	6
5	A	436	C3S	C40-C29-C30	4.56	120.21	111.71	4	13
4	A	359	PX4	O5-C8-C7	4.56	121.69	108.43	17	12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	339	PX4	O5-C8-C7	4.55	121.69	108.43	9	11
4	A	369	PX4	O7-C23-O8	4.55	112.70	123.70	1	5
4	A	381	PX4	O5-C8-C7	4.55	121.69	108.43	14	13
4	A	341	PX4	O5-C8-C7	4.55	121.68	108.43	1	12
4	A	349	PX4	C8-C7-C6	4.55	101.03	111.79	11	11
4	A	370	PX4	O7-C23-O8	4.55	112.71	123.70	17	5
4	A	402	PX4	P1-O3-C1	4.55	99.20	121.59	10	14
4	A	385	PX4	C5-N1-C4	4.54	97.29	108.97	15	7
4	A	350	PX4	O7-C23-C24	4.54	121.29	111.50	7	10
4	A	372	PX4	P1-O3-C1	4.54	99.23	121.59	8	12
4	A	345	PX4	O5-C8-C7	4.54	121.64	108.43	10	9
4	A	380	PX4	P1-O3-C1	4.54	99.26	121.59	9	18
5	A	432	C3S	C35-C32-C30	4.54	96.14	105.13	16	13
5	A	431	C3S	C32-C35-C38	4.53	114.12	105.13	18	12
4	A	305	PX4	O5-C8-C7	4.53	121.62	108.43	1	10
4	A	323	PX4	O3-P1-O2	4.53	91.38	109.07	14	9
4	A	379	PX4	O7-C23-O8	4.52	112.77	123.70	20	5
4	A	313	PX4	P1-O3-C1	4.52	99.33	121.59	9	14
4	A	351	PX4	P1-O3-C1	4.52	99.33	121.59	10	13
4	A	358	PX4	O7-C23-O8	4.52	112.78	123.70	8	5
4	A	430	PX4	O5-C8-C7	4.52	121.59	108.43	7	5
4	A	359	PX4	O7-C23-O8	4.51	112.79	123.70	8	7
4	A	345	PX4	C7-O7-C23	4.51	128.90	117.79	15	6
4	A	388	PX4	C1-C2-N1	4.51	130.84	115.78	19	9
4	A	397	PX4	P1-O3-C1	4.51	99.40	121.59	10	16
4	A	393	PX4	O5-C9-O6	4.50	112.22	123.59	20	5
4	A	353	PX4	O7-C23-O8	4.50	112.82	123.70	17	10
4	A	363	PX4	O7-C23-C24	4.50	121.21	111.50	12	11
4	A	410	PX4	O7-C23-C24	4.50	121.20	111.50	10	7
4	A	382	PX4	C7-O7-C23	4.50	128.87	117.79	11	8
4	A	368	PX4	C5-N1-C4	4.50	120.54	108.97	7	3
4	A	368	PX4	C8-C7-C6	4.49	101.16	111.79	15	10
4	A	375	PX4	O1-P1-O3	4.49	86.88	107.75	5	4
4	A	391	PX4	C4-N1-C3	4.49	97.42	108.97	2	9
5	A	431	C3S	C20-C22-C12	4.49	116.70	109.65	13	8
4	A	318	PX4	O7-C23-C24	4.49	121.18	111.50	1	8
4	A	329	PX4	O1-P1-O4	4.49	128.60	107.75	10	2
4	A	339	PX4	C8-C7-C6	4.49	101.17	111.79	3	10
4	A	422	PX4	O7-C23-C24	4.49	121.18	111.50	10	10
4	A	429	PX4	C8-C7-C6	4.49	101.17	111.79	13	11
4	A	312	PX4	P1-O3-C1	4.48	99.52	121.59	5	17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	333	PX4	C7-O7-C23	4.48	106.75	117.79	3	5
5	A	431	C3S	C50-C48-C54	4.48	103.34	110.36	19	15
4	A	315	PX4	P1-O3-C1	4.48	99.54	121.59	10	13
4	A	398	PX4	O7-C7-C8	4.48	124.61	108.40	1	11
4	A	339	PX4	P1-O4-C6	4.47	95.46	121.68	5	10
5	A	431	C3S	C54-C48-C38	4.47	119.53	110.28	20	6
4	A	370	PX4	P1-O4-C6	4.47	95.47	121.68	14	14
5	A	435	C3S	C15-C18-C20	4.47	104.30	109.71	6	5
4	A	371	PX4	C4-N1-C3	4.47	97.48	108.97	7	4
5	A	436	C3S	C1-C4-C7	4.47	117.95	110.33	18	2
4	A	315	PX4	O7-C23-C24	4.47	121.13	111.50	5	11
4	A	364	PX4	O5-C8-C7	4.47	121.44	108.43	1	11
4	A	379	PX4	O7-C23-C24	4.47	121.13	111.50	3	6
4	A	351	PX4	C25-C24-C23	4.46	97.39	113.62	12	2
4	A	374	PX4	O7-C23-O8	4.46	112.92	123.70	11	7
4	A	419	PX4	O7-C7-C6	4.46	124.55	108.40	2	7
4	A	421	PX4	O7-C23-C24	4.46	121.11	111.50	17	14
4	A	382	PX4	C5-N1-C3	4.45	97.53	108.97	4	5
4	A	427	PX4	O7-C23-O8	4.45	112.94	123.70	14	6
4	A	331	PX4	O5-C8-C7	4.45	121.39	108.43	8	11
4	A	378	PX4	P1-O3-C1	4.45	99.68	121.59	11	12
4	A	322	PX4	O5-C8-C7	4.45	121.38	108.43	18	16
5	A	436	C3S	C15-C18-C30	4.45	104.46	110.91	2	5
4	A	338	PX4	C7-O7-C23	4.45	128.74	117.79	9	10
4	A	334	PX4	C5-N1-C4	4.44	97.55	108.97	12	4
4	A	429	PX4	O7-C7-C8	4.44	124.48	108.40	4	5
5	A	436	C3S	C32-C30-C18	4.44	126.39	119.08	3	6
4	A	363	PX4	C8-C7-C6	4.44	101.29	111.79	12	9
5	A	436	C3S	C22-C12-C13	4.44	116.11	122.90	17	5
4	A	359	PX4	O7-C23-C24	4.44	121.06	111.50	1	7
4	A	387	PX4	C5-N1-C4	4.44	120.38	108.97	16	2
4	A	313	PX4	C8-C7-C6	4.43	101.31	111.79	11	12
4	A	405	PX4	O7-C23-C24	4.43	121.05	111.50	4	11
5	A	433	C3S	C30-C29-C38	4.43	94.83	100.07	4	6
4	A	408	PX4	P1-O3-C1	4.43	99.79	121.59	6	17
4	A	384	PX4	O5-C8-C7	4.43	121.32	108.43	2	7
4	A	401	PX4	O1-P1-O3	4.43	87.19	107.75	15	3
4	A	418	PX4	O7-C7-C8	4.42	124.42	108.40	13	11
4	A	425	PX4	O7-C23-C24	4.42	121.03	111.50	11	14
4	A	338	PX4	C8-C7-C6	4.42	101.34	111.79	3	9
4	A	338	PX4	O7-C7-C6	4.42	124.39	108.40	13	10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	343	PX4	C5-N1-C3	4.41	97.62	108.97	2	3
4	A	400	PX4	C4-N1-C3	4.41	97.63	108.97	1	8
4	A	353	PX4	O3-P1-O2	4.41	91.84	109.07	13	4
4	A	412	PX4	C5-N1-C3	4.41	97.64	108.97	8	6
4	A	349	PX4	C7-O7-C23	4.41	106.94	117.79	5	7
4	A	379	PX4	P1-O4-C6	4.41	95.83	121.68	9	12
4	A	418	PX4	C7-O7-C23	4.40	106.96	117.79	3	3
4	A	418	PX4	C5-N1-C3	4.40	97.66	108.97	16	6
4	A	309	PX4	C5-N1-C3	4.40	97.67	108.97	11	4
4	A	375	PX4	C7-O7-C23	4.40	128.61	117.79	6	4
5	A	436	C3S	C44-C22-C1	4.40	102.48	109.43	10	2
4	A	332	PX4	O3-P1-O2	4.39	91.90	109.07	5	5
4	A	399	PX4	O7-C7-C8	4.39	124.31	108.40	1	9
4	A	403	PX4	O5-C8-C7	4.39	121.22	108.43	9	13
4	A	306	PX4	O5-C8-C7	4.39	121.21	108.43	5	13
4	A	333	PX4	O7-C23-O8	4.39	113.10	123.70	15	3
4	A	399	PX4	C5-N1-C4	4.39	97.69	108.97	10	6
4	A	333	PX4	O5-C8-C7	4.38	121.19	108.43	13	7
4	A	428	PX4	C12-C11-C10	4.38	97.43	113.19	8	6
4	A	428	PX4	O5-C8-C7	4.38	121.19	108.43	20	9
4	A	354	PX4	C7-O7-C23	4.38	128.58	117.79	9	9
4	A	398	PX4	P1-O4-C6	4.38	96.00	121.68	16	12
4	A	306	PX4	P1-O3-C1	4.38	100.05	121.59	8	17
4	A	328	PX4	P1-O3-C1	4.38	100.05	121.59	2	15
4	A	406	PX4	O7-C23-C24	4.37	120.93	111.50	5	12
4	A	323	PX4	O7-C23-C24	4.37	120.92	111.50	8	9
4	A	347	PX4	C8-C7-C6	4.37	101.45	111.79	6	16
4	A	424	PX4	O7-C23-C24	4.37	120.92	111.50	6	8
4	A	372	PX4	O7-C23-O8	4.37	113.14	123.70	17	8
4	A	394	PX4	O7-C23-C24	4.37	120.92	111.50	7	9
4	A	325	PX4	C5-N1-C4	4.36	97.75	108.97	8	5
4	A	398	PX4	P1-O3-C1	4.36	100.11	121.59	16	15
5	A	434	C3S	C22-C12-C13	4.36	116.23	122.90	7	10
5	A	432	C3S	C20-C18-C30	4.36	114.93	109.09	16	8
4	A	361	PX4	O5-C8-C7	4.36	121.12	108.43	14	11
4	A	323	PX4	C8-C7-C6	4.36	101.48	111.79	13	15
4	A	415	PX4	C8-C7-C6	4.36	101.48	111.79	17	13
4	A	348	PX4	O1-P1-O2	4.35	133.77	112.24	2	14
5	A	432	C3S	O3-S1-O2	4.35	123.62	108.49	14	18
5	A	435	C3S	O3-S1-O2	4.35	123.62	108.49	7	20
4	A	329	PX4	O7-C23-O8	4.35	113.19	123.70	8	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	329	PX4	C7-O7-C23	4.35	107.08	117.79	5	6
4	A	368	PX4	C7-O7-C23	4.35	128.50	117.79	11	6
4	A	409	PX4	O3-P1-O2	4.35	92.07	109.07	3	2
4	A	388	PX4	P1-O3-C1	4.35	100.20	121.59	11	15
4	A	348	PX4	P1-O3-C1	4.34	100.21	121.59	19	15
4	A	359	PX4	P1-O3-C1	4.34	100.21	121.59	12	14
4	A	343	PX4	C4-N1-C3	4.34	120.14	108.97	17	6
4	A	395	PX4	C8-C7-C6	4.34	101.52	111.79	2	12
4	A	319	PX4	C5-N1-C3	4.34	97.82	108.97	9	4
4	A	319	PX4	C25-C24-C23	4.34	97.84	113.62	17	2
4	A	355	PX4	O5-C8-C7	4.34	121.06	108.43	1	9
4	A	429	PX4	P1-O3-C1	4.34	100.24	121.59	7	16
4	A	330	PX4	O7-C23-C24	4.33	120.84	111.50	11	8
4	A	333	PX4	P1-O3-C1	4.33	100.25	121.59	19	11
4	A	375	PX4	C4-N1-C3	4.33	120.11	108.97	20	5
4	A	425	PX4	O5-C8-C7	4.33	121.04	108.43	3	9
4	A	372	PX4	C5-N1-C4	4.33	97.84	108.97	4	6
4	A	361	PX4	P1-O3-C1	4.33	100.29	121.59	16	17
4	A	404	PX4	O7-C7-C6	4.33	124.07	108.40	11	5
4	A	423	PX4	C4-N1-C3	4.33	97.85	108.97	9	4
4	A	404	PX4	P1-O3-C1	4.32	100.31	121.59	1	16
4	A	405	PX4	O7-C23-O8	4.32	113.25	123.70	3	9
4	A	366	PX4	O5-C8-C7	4.32	121.01	108.43	4	7
4	A	380	PX4	O5-C8-C7	4.32	121.00	108.43	15	13
4	A	415	PX4	O7-C23-C24	4.32	120.81	111.50	14	10
5	A	435	C3S	C35-C32-C30	4.32	96.58	105.13	17	13
4	A	338	PX4	C12-C11-C10	4.31	97.68	113.19	17	7
4	A	422	PX4	C5-N1-C3	4.31	120.07	108.97	2	5
4	A	337	PX4	O1-P1-O2	4.31	133.55	112.24	3	10
4	A	322	PX4	O5-C9-C10	4.31	125.43	111.91	13	6
4	A	377	PX4	C7-O7-C23	4.31	128.40	117.79	5	10
4	A	420	PX4	O5-C8-C7	4.31	120.97	108.43	6	14
4	A	400	PX4	O5-C8-C7	4.31	120.97	108.43	8	10
5	A	433	C3S	O3-S1-O2	4.31	123.46	108.49	1	17
4	A	307	PX4	O7-C23-C24	4.30	120.77	111.50	16	9
4	A	385	PX4	O7-C23-C24	4.30	120.77	111.50	13	10
4	A	390	PX4	C8-C7-C6	4.30	101.62	111.79	9	9
5	A	435	C3S	C44-C22-C12	4.30	101.38	108.34	8	7
4	A	305	PX4	P1-O3-C1	4.30	100.43	121.59	11	13
4	A	370	PX4	C5-N1-C4	4.30	97.92	108.97	4	4
4	A	396	PX4	O7-C23-C24	4.30	120.77	111.50	7	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	313	PX4	C5-N1-C4	4.30	97.93	108.97	13	6
4	A	388	PX4	O5-C8-C7	4.30	120.94	108.43	16	10
4	A	392	PX4	O7-C23-C24	4.30	120.76	111.50	7	9
4	A	409	PX4	P1-O3-C1	4.30	100.44	121.59	15	13
4	A	378	PX4	O5-C9-O6	4.29	112.76	123.59	12	5
4	A	379	PX4	O3-P1-O2	4.29	92.29	109.07	18	9
4	A	403	PX4	P1-O3-C1	4.29	100.45	121.59	4	15
4	A	322	PX4	C7-O7-C23	4.29	128.36	117.79	14	8
4	A	323	PX4	P1-O3-C1	4.29	100.46	121.59	13	18
4	A	360	PX4	O7-C7-C8	4.29	123.94	108.40	7	8
4	A	384	PX4	O7-C23-C24	4.29	120.75	111.50	6	10
4	A	356	PX4	P1-O4-C6	4.29	96.54	121.68	19	12
4	A	423	PX4	O7-C23-C24	4.29	120.74	111.50	5	10
4	A	316	PX4	C8-C7-C6	4.28	101.66	111.79	18	15
4	A	383	PX4	O3-P1-O2	4.28	92.33	109.07	10	4
4	A	413	PX4	O7-C23-O8	4.28	113.35	123.70	14	4
5	A	434	C3S	C30-C29-C38	4.28	105.15	100.07	18	4
4	A	403	PX4	O7-C23-C24	4.28	120.73	111.50	6	10
5	A	434	C3S	C54-C48-C38	4.28	119.13	110.28	5	11
5	A	434	C3S	C26-C29-C38	4.28	110.16	116.57	11	4
5	A	432	C3S	C30-C29-C38	4.28	105.14	100.07	14	6
4	A	377	PX4	P1-O4-C6	4.28	96.61	121.68	2	14
4	A	387	PX4	C5-N1-C3	4.28	97.98	108.97	19	8
4	A	349	PX4	P1-O4-C6	4.27	96.61	121.68	7	19
4	A	366	PX4	C5-N1-C3	4.28	119.97	108.97	13	4
4	A	422	PX4	C12-C11-C10	4.27	97.83	113.19	6	4
4	A	427	PX4	P1-O3-C1	4.27	100.55	121.59	7	13
4	A	406	PX4	O7-C7-C8	4.27	123.87	108.40	9	9
4	A	390	PX4	C12-C11-C10	4.27	97.84	113.19	18	6
4	A	419	PX4	O7-C23-O8	4.27	113.38	123.70	14	7
4	A	342	PX4	C12-C11-C10	4.27	97.85	113.19	5	2
4	A	358	PX4	O7-C23-C24	4.27	120.70	111.50	16	7
4	A	430	PX4	O7-C23-O8	4.27	113.39	123.70	16	7
4	A	340	PX4	C26-C25-C24	4.27	97.86	113.19	5	4
4	A	350	PX4	P1-O3-C1	4.26	100.60	121.59	9	13
4	A	389	PX4	O7-C23-C24	4.26	120.69	111.50	9	8
4	A	358	PX4	P1-O4-C6	4.26	96.69	121.68	7	14
5	A	433	C3S	C22-C20-C18	4.26	119.13	112.73	4	7
5	A	433	C3S	C18-C15-C13	4.26	118.86	112.73	13	6
4	A	371	PX4	O3-P1-O2	4.26	92.42	109.07	20	3
4	A	373	PX4	P1-O4-C6	4.26	96.71	121.68	12	12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	336	PX4	O4-P1-O2	4.26	125.70	109.07	10	4
4	A	390	PX4	C25-C24-C23	4.26	98.14	113.62	11	2
4	A	331	PX4	O5-C9-C10	4.25	125.26	111.91	12	7
4	A	326	PX4	O4-P1-O2	4.25	125.69	109.07	17	3
4	A	341	PX4	P1-O3-C1	4.25	100.65	121.59	10	15
4	A	382	PX4	P1-O3-C1	4.25	100.66	121.59	6	14
4	A	396	PX4	O3-P1-O2	4.25	92.45	109.07	8	4
4	A	305	PX4	O3-P1-O2	4.25	92.48	109.07	14	6
4	A	362	PX4	O7-C23-C24	4.25	120.65	111.50	4	13
4	A	358	PX4	C4-N1-C3	4.24	98.06	108.97	8	4
5	A	435	C3S	C44-C22-C1	4.24	116.13	109.43	5	8
4	A	308	PX4	O5-C8-C7	4.24	120.78	108.43	2	12
4	A	359	PX4	O1-P1-O2	4.24	133.22	112.24	5	12
4	A	389	PX4	C5-N1-C3	4.24	98.07	108.97	17	5
4	A	321	PX4	C5-N1-C4	4.24	98.08	108.97	3	4
4	A	343	PX4	O7-C7-C6	4.24	123.75	108.40	2	9
5	A	436	C3S	C32-C35-C38	4.24	113.53	105.13	18	10
4	A	352	PX4	O5-C9-O6	4.24	112.90	123.59	2	8
4	A	322	PX4	P1-O3-C1	4.23	100.75	121.59	12	16
4	A	324	PX4	O7-C7-C8	4.23	123.73	108.40	2	12
4	A	357	PX4	P1-O4-C6	4.23	96.86	121.68	13	14
4	A	311	PX4	O5-C9-C10	4.23	125.19	111.91	7	6
4	A	350	PX4	O5-C8-C7	4.23	120.75	108.43	19	13
4	A	322	PX4	O7-C23-C24	4.23	120.62	111.50	10	11
4	A	364	PX4	P1-O4-C6	4.23	96.88	121.68	10	14
4	A	412	PX4	C4-N1-C3	4.23	119.85	108.97	10	8
4	A	395	PX4	P1-O3-C1	4.23	100.77	121.59	16	14
5	A	436	C3S	C26-C29-C30	4.23	100.71	107.27	7	5
4	A	425	PX4	P1-O3-C1	4.23	100.78	121.59	6	15
4	A	427	PX4	C4-N1-C3	4.23	98.10	108.97	3	5
4	A	315	PX4	O3-P1-O2	4.22	92.57	109.07	15	5
5	A	431	C3S	C15-C18-C30	4.22	104.78	110.91	10	5
4	A	382	PX4	C4-N1-C3	4.22	98.12	108.97	10	8
4	A	383	PX4	P1-O3-C1	4.22	100.81	121.59	11	11
4	A	342	PX4	C5-N1-C3	4.22	98.13	108.97	7	5
5	A	434	C3S	C9-C12-C13	4.22	114.53	120.61	4	15
4	A	402	PX4	C32-C31-C30	4.21	93.03	114.42	11	2
4	A	342	PX4	P1-O3-C1	4.21	100.85	121.59	7	11
5	A	431	C3S	C32-C30-C18	4.21	112.15	119.08	5	8
4	A	377	PX4	C5-N1-C4	4.21	98.16	108.97	15	6
4	A	319	PX4	C5-N1-C4	4.20	98.17	108.97	19	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
5	A	431	C3S	C35-C32-C30	4.20	96.80	105.13	18	9
4	A	400	PX4	P1-O3-C1	4.20	100.90	121.59	16	13
4	A	409	PX4	O5-C8-C7	4.20	120.67	108.43	5	14
5	A	431	C3S	C26-C29-C30	4.20	100.75	107.27	8	8
5	A	433	C3S	C32-C30-C29	4.20	98.78	103.84	10	7
5	A	436	C3S	C54-C48-C38	4.20	118.97	110.28	12	2
4	A	323	PX4	P1-O4-C6	4.20	97.05	121.68	20	14
4	A	343	PX4	P1-O4-C6	4.20	97.05	121.68	1	12
4	A	346	PX4	C5-N1-C3	4.20	98.17	108.97	10	6
4	A	428	PX4	C4-N1-C3	4.20	98.18	108.97	17	1
4	A	387	PX4	C4-N1-C3	4.20	98.18	108.97	16	9
4	A	364	PX4	C33-C32-C31	4.19	93.14	114.42	7	2
4	A	345	PX4	C34-C33-C32	4.19	93.16	114.42	13	3
4	A	354	PX4	C5-N1-C3	4.19	98.21	108.97	6	4
4	A	362	PX4	P1-O3-C1	4.19	100.98	121.59	15	15
4	A	336	PX4	C4-N1-C3	4.19	98.21	108.97	2	4
4	A	315	PX4	C5-N1-C4	4.18	98.21	108.97	16	4
4	A	361	PX4	O5-C9-C10	4.19	125.04	111.91	8	5
4	A	381	PX4	O7-C23-O8	4.19	113.59	123.70	18	9
4	A	404	PX4	C11-C10-C9	4.18	98.40	113.62	20	2
4	A	334	PX4	C7-O7-C23	4.18	128.09	117.79	15	8
4	A	367	PX4	C8-C7-C6	4.18	101.89	111.79	8	6
5	A	434	C3S	C26-C29-C30	4.18	100.78	107.27	8	8
4	A	308	PX4	O7-C23-O8	4.18	113.59	123.70	2	6
4	A	318	PX4	C5-N1-C3	4.18	119.73	108.97	3	6
4	A	395	PX4	O7-C7-C6	4.18	123.55	108.40	8	7
4	A	383	PX4	O7-C23-O8	4.18	113.60	123.70	9	5
4	A	402	PX4	C5-N1-C4	4.18	98.23	108.97	5	7
4	A	307	PX4	P1-O3-C1	4.17	101.05	121.59	17	14
4	A	323	PX4	O5-C8-C7	4.17	120.57	108.43	2	12
4	A	399	PX4	C1-C2-N1	4.17	129.71	115.78	20	4
4	A	328	PX4	C17-C16-C15	4.17	93.26	114.42	12	2
4	A	320	PX4	O7-C23-O8	4.17	113.63	123.70	18	7
4	A	373	PX4	O7-C23-O8	4.17	113.63	123.70	4	7
4	A	376	PX4	P1-O3-C1	4.17	101.07	121.59	2	15
4	A	427	PX4	P1-O4-C6	4.17	97.24	121.68	16	12
4	A	376	PX4	C5-N1-C3	4.16	98.27	108.97	14	6
5	A	433	C3S	C15-C13-C12	4.16	117.38	125.06	5	4
4	A	329	PX4	O7-C7-C8	4.16	123.47	108.40	20	7
4	A	346	PX4	C8-C7-C6	4.16	101.94	111.79	6	10
4	A	315	PX4	O1-P1-O2	4.16	132.81	112.24	20	11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	387	PX4	O7-C7-C8	4.16	123.47	108.40	18	8
4	A	394	PX4	P1-O3-C1	4.16	101.10	121.59	19	12
4	A	407	PX4	O5-C9-O6	4.16	113.09	123.59	16	6
4	A	325	PX4	O7-C7-C6	4.16	123.46	108.40	10	10
4	A	425	PX4	P1-O4-C6	4.16	97.29	121.68	19	11
4	A	307	PX4	O7-C23-O8	4.16	113.66	123.70	11	9
4	A	399	PX4	O7-C7-C6	4.16	123.45	108.40	12	7
4	A	421	PX4	C5-N1-C3	4.16	98.29	108.97	10	5
4	A	430	PX4	C8-C7-C6	4.16	101.96	111.79	11	13
4	A	314	PX4	O7-C7-C8	4.15	123.44	108.40	20	8
4	A	416	PX4	P1-O3-C1	4.15	101.14	121.59	18	16
4	A	357	PX4	O1-P1-O2	4.15	132.77	112.24	12	5
4	A	402	PX4	O5-C9-C10	4.15	124.94	111.91	19	5
4	A	352	PX4	O3-P1-O2	4.15	92.85	109.07	12	3
4	A	421	PX4	O1-P1-O2	4.15	132.76	112.24	8	9
5	A	434	C3S	C22-C20-C18	4.15	118.96	112.73	5	4
4	A	405	PX4	C5-N1-C3	4.15	119.64	108.97	10	5
4	A	387	PX4	C3-N1-C2	4.15	92.94	109.92	15	5
4	A	414	PX4	O3-P1-O2	4.15	92.86	109.07	17	3
4	A	428	PX4	P1-O4-C6	4.15	97.35	121.68	18	11
4	A	325	PX4	O7-C7-C8	4.15	123.42	108.40	1	5
4	A	331	PX4	P1-O3-C1	4.15	101.17	121.59	8	14
5	A	431	C3S	C4-C1-C22	4.15	121.72	112.74	18	6
4	A	323	PX4	O5-C9-C10	4.14	124.92	111.91	1	3
4	A	327	PX4	P1-O3-C1	4.14	101.19	121.59	3	16
4	A	367	PX4	C7-O7-C23	4.14	107.59	117.79	16	4
4	A	384	PX4	O4-P1-O2	4.14	125.26	109.07	19	2
5	A	433	C3S	C32-C30-C18	4.14	125.90	119.08	13	9
5	A	436	C3S	C35-C32-C30	4.14	96.92	105.13	6	9
4	A	387	PX4	P1-O3-C1	4.14	101.21	121.59	15	18
4	A	416	PX4	P1-O4-C6	4.14	97.40	121.68	12	13
5	A	434	C3S	C29-C30-C18	4.14	120.51	114.38	4	9
4	A	395	PX4	C25-C24-C23	4.14	98.58	113.62	20	4
4	A	409	PX4	C7-O7-C23	4.14	127.98	117.79	2	9
4	A	321	PX4	P1-O4-C6	4.13	97.44	121.68	13	12
4	A	416	PX4	C5-N1-C4	4.13	98.34	108.97	2	4
4	A	333	PX4	O7-C7-C8	4.13	123.36	108.40	14	8
4	A	411	PX4	O1-P1-O2	4.13	132.67	112.24	13	12
4	A	429	PX4	O5-C8-C7	4.13	120.46	108.43	7	10
4	A	401	PX4	O5-C9-O6	4.13	113.17	123.59	16	6
4	A	389	PX4	C4-N1-C3	4.13	98.37	108.97	8	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	426	PX4	P1-O3-C1	4.13	101.27	121.59	6	13
4	A	416	PX4	C12-C11-C10	4.12	98.36	113.19	12	3
4	A	420	PX4	P1-O3-C1	4.13	101.28	121.59	18	11
4	A	415	PX4	C11-C10-C9	4.12	98.65	113.62	10	2
4	A	420	PX4	O7-C7-C8	4.12	123.31	108.40	5	8
4	A	307	PX4	O4-P1-O2	4.11	125.14	109.07	13	3
4	A	391	PX4	C7-O7-C23	4.11	127.92	117.79	14	5
4	A	402	PX4	O5-C9-O6	4.11	113.21	123.59	8	4
5	A	433	C3S	C44-C22-C1	4.11	102.93	109.43	8	4
5	A	433	C3S	C40-C29-C38	4.11	119.38	111.71	4	5
5	A	436	C3S	O3-S1-O2	4.11	122.78	108.49	10	19
4	A	411	PX4	O7-C23-O8	4.11	113.77	123.70	5	7
4	A	323	PX4	C12-C11-C10	4.11	98.43	113.19	12	5
4	A	393	PX4	O3-P1-O2	4.11	93.02	109.07	17	5
4	A	397	PX4	C1-C2-N1	4.11	129.49	115.78	18	6
4	A	353	PX4	O1-P1-O2	4.11	132.54	112.24	18	12
4	A	365	PX4	C25-C24-C23	4.11	98.69	113.62	6	4
4	A	404	PX4	C5-N1-C3	4.11	98.42	108.97	15	5
4	A	324	PX4	O3-P1-O2	4.10	93.03	109.07	11	5
4	A	424	PX4	C8-C7-C6	4.10	102.08	111.79	8	10
4	A	391	PX4	P1-O3-C1	4.10	101.39	121.59	9	16
4	A	412	PX4	C7-O7-C23	4.10	127.88	117.79	14	5
4	A	337	PX4	O7-C7-C8	4.10	123.24	108.40	11	9
4	A	430	PX4	P1-O4-C6	4.10	97.64	121.68	12	11
4	A	324	PX4	O7-C23-C24	4.10	120.33	111.50	13	5
4	A	420	PX4	C7-O7-C23	4.10	107.70	117.79	11	6
5	A	434	C3S	C32-C30-C18	4.10	125.83	119.08	17	5
4	A	410	PX4	O3-P1-O2	4.10	93.06	109.07	7	2
4	A	311	PX4	O7-C23-O8	4.09	113.81	123.70	14	6
4	A	384	PX4	C7-O7-C23	4.09	127.87	117.79	3	9
4	A	390	PX4	C7-O7-C23	4.09	107.72	117.79	6	3
4	A	421	PX4	P1-O3-C1	4.09	101.44	121.59	16	12
4	A	338	PX4	P1-O4-C6	4.09	97.69	121.68	16	12
4	A	392	PX4	P1-O3-C1	4.09	101.45	121.59	10	11
4	A	320	PX4	P1-O3-C1	4.09	101.46	121.59	8	16
5	A	431	C3S	C22-C12-C13	4.09	116.64	122.90	10	6
4	A	347	PX4	P1-O3-C1	4.09	101.46	121.59	7	19
4	A	413	PX4	P1-O3-C1	4.09	101.46	121.59	5	14
4	A	329	PX4	C4-N1-C3	4.09	98.46	108.97	8	6
4	A	332	PX4	P1-O4-C6	4.09	97.72	121.68	19	10
4	A	357	PX4	O5-C9-O6	4.09	113.28	123.59	10	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	402	PX4	O7-C7-C6	4.08	123.19	108.40	10	6
4	A	313	PX4	O5-C8-C7	4.08	120.32	108.43	16	9
4	A	428	PX4	C8-O5-C9	4.08	102.00	117.12	3	3
5	A	433	C3S	C23-C20-C22	4.08	118.46	113.08	4	8
4	A	375	PX4	O7-C23-O8	4.08	113.85	123.70	8	5
4	A	320	PX4	O7-C7-C6	4.08	123.16	108.40	13	12
4	A	363	PX4	O5-C8-C7	4.08	120.30	108.43	3	12
4	A	353	PX4	P1-O3-C1	4.07	101.54	121.59	12	15
4	A	418	PX4	P1-O4-C6	4.07	97.79	121.68	2	9
4	A	308	PX4	P1-O3-C1	4.07	101.55	121.59	14	15
4	A	409	PX4	O7-C23-O8	4.07	113.86	123.70	15	8
4	A	372	PX4	C7-O7-C23	4.07	127.81	117.79	8	7
5	A	434	C3S	C23-C20-C18	4.07	105.89	111.75	18	7
5	A	436	C3S	C30-C29-C38	4.07	104.89	100.07	15	6
4	A	397	PX4	O7-C23-C24	4.06	120.26	111.50	2	12
4	A	351	PX4	O7-C7-C8	4.06	123.11	108.40	12	10
4	A	399	PX4	P1-O3-C1	4.06	101.59	121.59	20	16
4	A	307	PX4	P1-O4-C6	4.06	97.87	121.68	1	12
4	A	387	PX4	C25-C24-C23	4.06	98.85	113.62	14	5
5	A	436	C3S	C4-C7-C9	4.06	104.93	110.99	2	8
4	A	306	PX4	C26-C25-C24	4.06	98.61	113.19	5	2
4	A	346	PX4	O3-P1-O2	4.06	93.21	109.07	19	3
4	A	429	PX4	C5-N1-C3	4.06	98.54	108.97	11	4
4	A	368	PX4	P1-O4-C6	4.06	97.89	121.68	10	13
4	A	329	PX4	O5-C8-C7	4.06	120.24	108.43	17	9
4	A	337	PX4	O3-P1-O2	4.05	93.23	109.07	18	2
4	A	399	PX4	O3-P1-O2	4.05	93.23	109.07	5	6
4	A	429	PX4	O7-C23-C24	4.05	120.24	111.50	5	8
5	A	433	C3S	C15-C18-C30	4.05	116.78	110.91	6	9
4	A	403	PX4	C5-N1-C4	4.05	119.39	108.97	12	3
4	A	380	PX4	O7-C23-C24	4.05	120.23	111.50	12	7
4	A	306	PX4	O5-C9-O6	4.05	113.38	123.59	14	9
4	A	366	PX4	P1-O3-C1	4.05	101.67	121.59	5	16
4	A	378	PX4	O7-C23-C24	4.04	120.22	111.50	17	8
4	A	421	PX4	O7-C23-O8	4.04	113.93	123.70	8	6
4	A	424	PX4	C12-C11-C10	4.04	98.65	113.19	14	2
4	A	359	PX4	C5-N1-C4	4.04	98.58	108.97	16	5
4	A	365	PX4	P1-O4-C6	4.04	97.98	121.68	19	14
4	A	425	PX4	O5-C9-O6	4.04	113.39	123.59	2	4
5	A	431	C3S	C30-C29-C38	4.04	104.86	100.07	16	4
4	A	348	PX4	O5-C9-O6	4.04	113.40	123.59	14	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	334	PX4	C25-C24-C23	4.04	98.94	113.62	16	3
4	A	407	PX4	P1-O4-C6	4.04	98.00	121.68	11	14
4	A	408	PX4	O7-C23-O8	4.04	113.94	123.70	10	7
4	A	313	PX4	O4-P1-O2	4.04	124.84	109.07	6	5
4	A	346	PX4	P1-O3-C1	4.03	101.73	121.59	14	17
4	A	314	PX4	O7-C23-C24	4.03	120.19	111.50	1	10
4	A	320	PX4	O5-C9-O6	4.03	113.42	123.59	17	9
4	A	326	PX4	O7-C7-C8	4.03	123.00	108.40	3	9
4	A	409	PX4	C5-N1-C4	4.03	98.61	108.97	2	11
4	A	413	PX4	O1-P1-O2	4.03	132.17	112.24	14	9
4	A	308	PX4	P1-O4-C6	4.03	98.04	121.68	4	11
4	A	334	PX4	O7-C23-C24	4.03	120.19	111.50	11	11
4	A	337	PX4	C7-O7-C23	4.03	107.87	117.79	2	4
4	A	390	PX4	P1-O3-C1	4.03	101.75	121.59	17	12
4	A	347	PX4	O7-C7-C6	4.03	122.99	108.40	6	9
4	A	411	PX4	P1-O3-C1	4.03	101.76	121.59	1	15
4	A	310	PX4	O7-C23-O8	4.03	113.97	123.70	20	6
4	A	314	PX4	O3-P1-O2	4.03	93.33	109.07	9	5
4	A	399	PX4	O4-P1-O2	4.03	124.79	109.07	4	6
4	A	409	PX4	O7-C7-C8	4.03	122.98	108.40	17	11
4	A	415	PX4	O5-C8-C7	4.03	120.15	108.43	5	10
4	A	428	PX4	O7-C23-C24	4.03	120.18	111.50	16	8
4	A	361	PX4	P1-O4-C6	4.02	98.08	121.68	14	13
4	A	411	PX4	O7-C7-C8	4.02	122.97	108.40	20	5
4	A	417	PX4	C5-N1-C3	4.02	98.63	108.97	11	6
4	A	321	PX4	O5-C9-C10	4.02	124.53	111.91	19	5
4	A	325	PX4	O7-C23-O8	4.02	113.98	123.70	20	7
4	A	344	PX4	O7-C23-C24	4.02	120.17	111.50	4	8
4	A	361	PX4	C1-C2-N1	4.02	129.21	115.78	5	6
5	A	432	C3S	C15-C18-C30	4.02	116.74	110.91	17	5
4	A	429	PX4	O5-C9-C10	4.02	124.53	111.91	20	8
4	A	424	PX4	P1-O3-C1	4.02	101.80	121.59	8	17
5	A	431	C3S	C18-C15-C13	4.02	118.51	112.73	18	7
4	A	357	PX4	O7-C7-C8	4.02	122.95	108.40	14	10
4	A	383	PX4	O1-P1-O2	4.02	132.11	112.24	7	7
4	A	386	PX4	C4-N1-C3	4.02	98.64	108.97	4	9
4	A	399	PX4	O5-C8-C7	4.02	120.13	108.43	13	10
4	A	409	PX4	O5-C9-O6	4.02	113.45	123.59	11	6
4	A	421	PX4	O7-C7-C6	4.02	122.94	108.40	11	6
4	A	393	PX4	P1-O4-C6	4.01	98.15	121.68	20	13
4	A	360	PX4	O7-C7-C6	4.01	122.93	108.40	15	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	408	PX4	O5-C9-C10	4.01	124.50	111.91	17	6
4	A	314	PX4	C4-N1-C3	4.01	98.66	108.97	12	5
4	A	345	PX4	P1-O4-C6	4.01	98.17	121.68	3	9
4	A	413	PX4	O5-C8-C7	4.01	120.10	108.43	20	10
4	A	384	PX4	C12-C11-C10	4.01	98.79	113.19	12	7
4	A	325	PX4	O5-C9-O6	4.00	113.49	123.59	9	7
4	A	309	PX4	O1-P1-O4	4.00	126.34	107.75	2	2
4	A	425	PX4	O7-C23-O8	4.00	114.03	123.70	19	9
4	A	344	PX4	P1-O3-C1	4.00	101.89	121.59	12	14
4	A	348	PX4	O5-C8-C7	4.00	120.08	108.43	12	10
4	A	365	PX4	O7-C23-O8	4.00	114.04	123.70	15	5
4	A	387	PX4	O7-C23-C24	4.00	120.12	111.50	11	10
5	A	431	C3S	C26-C29-C38	4.00	110.58	116.57	8	7
4	A	347	PX4	O7-C23-O8	4.00	114.04	123.70	16	3
4	A	371	PX4	O7-C7-C8	4.00	122.88	108.40	7	5
4	A	335	PX4	O5-C8-C7	4.00	120.06	108.43	17	8
4	A	424	PX4	P1-O4-C6	4.00	98.25	121.68	9	10
4	A	398	PX4	O1-P1-O4	3.99	126.30	107.75	6	3
4	A	350	PX4	C12-C11-C10	3.99	98.84	113.19	16	5
4	A	416	PX4	C4-N1-C3	3.99	119.24	108.97	18	5
5	A	436	C3S	C18-C15-C13	3.99	118.47	112.73	13	4
4	A	328	PX4	O5-C9-O6	3.99	113.52	123.59	4	6
4	A	374	PX4	C8-C7-C6	3.99	102.35	111.79	15	7
4	A	392	PX4	O7-C7-C8	3.99	122.85	108.40	14	7
4	A	335	PX4	C14-C13-C12	3.99	94.18	114.42	17	1
4	A	347	PX4	O1-P1-O2	3.99	131.95	112.24	13	12
4	A	351	PX4	C4-N1-C3	3.99	98.72	108.97	19	5
4	A	354	PX4	O7-C7-C8	3.99	122.84	108.40	17	8
4	A	394	PX4	O7-C23-O8	3.99	114.07	123.70	7	9
4	A	368	PX4	O7-C7-C8	3.98	122.83	108.40	6	9
4	A	385	PX4	O7-C7-C8	3.98	122.83	108.40	8	7
4	A	333	PX4	C4-N1-C3	3.98	98.73	108.97	19	6
4	A	353	PX4	C4-N1-C3	3.98	98.73	108.97	11	5
4	A	378	PX4	O5-C9-C10	3.98	124.40	111.91	13	7
4	A	409	PX4	C26-C25-C24	3.98	98.88	113.19	3	6
4	A	418	PX4	P1-O3-C1	3.98	101.99	121.59	14	16
5	A	432	C3S	C35-C38-C29	3.98	99.05	103.84	13	10
5	A	432	C3S	C32-C30-C29	3.98	99.05	103.84	2	9
4	A	368	PX4	P1-O3-C1	3.98	102.01	121.59	12	13
4	A	399	PX4	C11-C10-C9	3.98	99.16	113.62	10	1
4	A	308	PX4	C5-N1-C3	3.97	98.75	108.97	17	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	380	PX4	O7-C7-C8	3.97	122.79	108.40	10	11
4	A	395	PX4	C7-O7-C23	3.97	108.01	117.79	18	5
4	A	363	PX4	C4-N1-C3	3.97	98.76	108.97	3	3
4	A	390	PX4	P1-O4-C6	3.97	98.38	121.68	18	14
4	A	396	PX4	C7-O7-C23	3.97	127.57	117.79	9	3
4	A	414	PX4	C5-N1-C4	3.97	98.76	108.97	20	4
4	A	334	PX4	O5-C9-O6	3.97	113.58	123.59	7	6
4	A	379	PX4	O1-P1-O4	3.97	126.18	107.75	6	6
4	A	306	PX4	C5-N1-C3	3.97	98.77	108.97	8	2
4	A	354	PX4	P1-O4-C6	3.97	98.42	121.68	9	10
5	A	435	C3S	C18-C15-C13	3.97	118.43	112.73	7	8
4	A	310	PX4	O5-C8-C7	3.97	119.98	108.43	5	8
4	A	381	PX4	O7-C7-C6	3.97	122.76	108.40	7	7
4	A	359	PX4	P1-O4-C6	3.96	98.43	121.68	16	12
4	A	358	PX4	C7-O7-C23	3.96	127.55	117.79	8	6
4	A	370	PX4	P1-O3-C1	3.96	102.08	121.59	3	16
4	A	408	PX4	C5-N1-C4	3.96	98.78	108.97	5	5
4	A	319	PX4	O4-P1-O2	3.96	124.54	109.07	5	4
4	A	347	PX4	C4-N1-C3	3.96	98.79	108.97	8	4
4	A	408	PX4	O7-C7-C8	3.96	122.73	108.40	14	8
4	A	428	PX4	C8-C7-C6	3.96	102.42	111.79	20	10
4	A	317	PX4	P1-O3-C1	3.96	102.12	121.59	15	11
4	A	321	PX4	C12-C11-C10	3.96	98.97	113.19	2	2
4	A	347	PX4	P1-O4-C6	3.95	98.49	121.68	6	17
4	A	341	PX4	C7-O7-C23	3.95	127.52	117.79	14	3
4	A	351	PX4	O5-C8-C7	3.95	119.94	108.43	4	11
4	A	372	PX4	O1-P1-O4	3.95	126.10	107.75	7	5
4	A	368	PX4	O7-C7-C6	3.95	122.70	108.40	4	8
4	A	315	PX4	O7-C23-O8	3.95	114.16	123.70	5	7
4	A	383	PX4	O5-C9-O6	3.95	113.62	123.59	19	6
4	A	333	PX4	O7-C7-C6	3.95	122.70	108.40	17	6
4	A	355	PX4	O7-C7-C6	3.95	122.70	108.40	12	8
4	A	406	PX4	C25-C24-C23	3.95	99.26	113.62	14	1
5	A	436	C3S	C26-C29-C38	3.95	110.66	116.57	20	5
4	A	318	PX4	O7-C7-C8	3.95	122.69	108.40	7	8
4	A	326	PX4	O7-C23-O8	3.94	114.17	123.70	14	8
4	A	347	PX4	O7-C7-C8	3.94	122.69	108.40	6	9
4	A	349	PX4	P1-O3-C1	3.94	102.17	121.59	17	12
4	A	354	PX4	O7-C7-C6	3.94	122.68	108.40	13	4
4	A	355	PX4	C8-C7-C6	3.94	102.46	111.79	7	8
4	A	400	PX4	O5-C9-O6	3.94	113.64	123.59	13	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	425	PX4	C4-N1-C3	3.94	98.84	108.97	6	3
4	A	377	PX4	C12-C11-C10	3.94	99.03	113.19	1	2
4	A	421	PX4	P1-O4-C6	3.94	98.58	121.68	9	17
4	A	325	PX4	C11-C10-C9	3.94	99.30	113.62	10	2
4	A	380	PX4	P1-O4-C6	3.94	98.59	121.68	5	11
5	A	431	C3S	O3-S1-O2	3.94	122.18	108.49	10	19
4	A	315	PX4	C1-C2-N1	3.94	128.92	115.78	5	9
4	A	306	PX4	P1-O4-C6	3.93	98.61	121.68	19	15
4	A	357	PX4	P1-O3-C1	3.93	102.22	121.59	1	15
4	A	366	PX4	P1-O4-C6	3.94	98.60	121.68	2	14
4	A	420	PX4	O1-P1-O4	3.93	126.01	107.75	14	6
4	A	428	PX4	O5-C9-O6	3.93	113.66	123.59	12	7
4	A	318	PX4	O7-C23-O8	3.93	114.20	123.70	11	6
4	A	322	PX4	O1-P1-O2	3.93	131.68	112.24	7	9
4	A	333	PX4	P1-O4-C6	3.93	98.63	121.68	12	13
4	A	371	PX4	O5-C9-O6	3.93	113.67	123.59	16	9
4	A	421	PX4	C1-C2-N1	3.93	128.91	115.78	6	6
4	A	417	PX4	C1-C2-N1	3.93	128.91	115.78	12	8
5	A	434	C3S	C44-C22-C1	3.93	103.22	109.43	13	8
4	A	362	PX4	C19-C18-C17	3.93	94.48	114.42	1	3
4	A	392	PX4	C1-C2-N1	3.93	128.90	115.78	14	3
4	A	325	PX4	O3-P1-O2	3.93	93.72	109.07	20	2
4	A	393	PX4	O7-C7-C8	3.93	122.62	108.40	16	6
4	A	373	PX4	O7-C23-C24	3.92	119.95	111.50	20	10
4	A	391	PX4	O7-C7-C6	3.92	122.60	108.40	11	13
4	A	332	PX4	C5-N1-C4	3.92	98.90	108.97	16	6
4	A	332	PX4	C26-C25-C24	3.92	99.11	113.19	8	1
4	A	375	PX4	O7-C7-C8	3.92	122.58	108.40	2	8
4	A	386	PX4	O5-C9-O6	3.92	113.71	123.59	15	4
4	A	424	PX4	O1-P1-O4	3.92	89.56	107.75	2	3
4	A	344	PX4	C7-O7-C23	3.91	127.42	117.79	4	5
4	A	419	PX4	C1-C2-N1	3.91	128.84	115.78	10	10
4	A	386	PX4	O5-C8-C7	3.91	119.81	108.43	7	9
4	A	355	PX4	O7-C7-C8	3.91	122.55	108.40	2	13
4	A	428	PX4	P1-O3-C1	3.91	102.35	121.59	10	17
4	A	363	PX4	P1-O3-C1	3.91	102.36	121.59	2	16
4	A	413	PX4	C4-N1-C3	3.91	98.93	108.97	3	5
5	A	435	C3S	C32-C35-C38	3.91	112.87	105.13	16	12
4	A	360	PX4	P1-O4-C6	3.90	98.79	121.68	9	13
4	A	416	PX4	O5-C9-O6	3.90	113.74	123.59	16	5
4	A	418	PX4	O7-C23-O8	3.90	114.27	123.70	1	10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	402	PX4	O4-P1-O2	3.90	124.31	109.07	2	4
4	A	426	PX4	C5-N1-C3	3.90	98.95	108.97	18	4
5	A	436	C3S	C15-C13-C12	3.90	117.87	125.06	3	7
4	A	332	PX4	C7-O7-C23	3.90	108.19	117.79	9	2
4	A	374	PX4	C5-N1-C3	3.90	98.95	108.97	12	3
4	A	361	PX4	C4-N1-C3	3.90	98.96	108.97	9	9
4	A	377	PX4	O7-C23-O8	3.90	114.29	123.70	15	11
5	A	434	C3S	C15-C18-C20	3.90	114.43	109.71	2	5
4	A	369	PX4	C12-C11-C10	3.89	99.19	113.19	20	3
4	A	326	PX4	P1-O3-C1	3.89	102.43	121.59	5	17
4	A	403	PX4	O7-C7-C6	3.89	122.49	108.40	15	12
4	A	393	PX4	P1-O3-C1	3.89	102.44	121.59	1	15
4	A	336	PX4	C26-C25-C24	3.89	99.21	113.19	16	2
4	A	366	PX4	O4-P1-O2	3.89	124.26	109.07	19	5
4	A	388	PX4	O7-C23-C24	3.89	119.88	111.50	7	7
4	A	411	PX4	C12-C11-C10	3.89	99.21	113.19	3	2
4	A	355	PX4	O5-C9-O6	3.89	113.78	123.59	18	5
4	A	398	PX4	C5-N1-C2	3.89	94.01	109.92	5	4
4	A	361	PX4	C12-C11-C10	3.88	127.16	113.19	11	3
5	A	433	C3S	C26-C29-C38	3.88	110.76	116.57	19	8
4	A	319	PX4	O3-P1-O2	3.88	93.89	109.07	6	6
4	A	425	PX4	C5-N1-C4	3.88	98.99	108.97	20	2
4	A	418	PX4	C12-C11-C10	3.88	99.24	113.19	12	4
4	A	305	PX4	O1-P1-O2	3.88	131.42	112.24	9	9
4	A	329	PX4	O5-C9-O6	3.88	113.80	123.59	17	3
4	A	396	PX4	O7-C23-O8	3.88	114.33	123.70	9	5
5	A	435	C3S	C23-C20-C22	3.88	118.19	113.08	2	9
4	A	329	PX4	C5-N1-C4	3.88	118.94	108.97	14	3
4	A	427	PX4	C1-C2-N1	3.88	128.72	115.78	19	4
4	A	380	PX4	C8-O5-C9	3.87	102.78	117.12	11	3
4	A	397	PX4	O5-C9-O6	3.87	113.82	123.59	3	7
4	A	334	PX4	P1-O3-C1	3.87	102.54	121.59	8	15
4	A	356	PX4	O1-P1-O2	3.87	131.38	112.24	17	8
4	A	338	PX4	C5-N1-C4	3.87	99.03	108.97	6	8
4	A	416	PX4	C5-N1-C3	3.87	99.03	108.97	5	4
4	A	312	PX4	C5-N1-C4	3.87	99.03	108.97	2	5
4	A	309	PX4	C7-O7-C23	3.87	127.31	117.79	6	6
4	A	316	PX4	O7-C7-C8	3.87	122.40	108.40	20	8
4	A	356	PX4	C4-N1-C3	3.87	99.03	108.97	20	5
4	A	365	PX4	O3-P1-O2	3.87	93.96	109.07	2	5
4	A	367	PX4	P1-O4-C6	3.87	99.01	121.68	10	13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	373	PX4	O7-C7-C8	3.87	122.40	108.40	16	8
4	A	426	PX4	C1-C2-N1	3.87	128.69	115.78	15	5
4	A	315	PX4	O1-P1-O4	3.87	125.70	107.75	7	3
4	A	394	PX4	O1-P1-O2	3.87	131.35	112.24	3	12
4	A	377	PX4	C26-C25-C24	3.86	99.30	113.19	16	4
4	A	328	PX4	C7-O7-C23	3.86	127.30	117.79	12	11
4	A	342	PX4	C5-N1-C4	3.86	99.05	108.97	13	4
4	A	356	PX4	O7-C7-C8	3.86	122.39	108.40	12	14
4	A	360	PX4	C7-O7-C23	3.86	108.28	117.79	1	5
4	A	372	PX4	O5-C9-C10	3.86	124.02	111.91	11	6
4	A	309	PX4	P1-O3-C1	3.86	102.59	121.59	13	13
4	A	311	PX4	O1-P1-O3	3.86	89.82	107.75	11	4
4	A	336	PX4	O1-P1-O2	3.86	131.32	112.24	11	11
4	A	412	PX4	O7-C23-O8	3.86	114.37	123.70	13	8
4	A	325	PX4	O5-C9-C10	3.86	124.02	111.91	17	2
4	A	340	PX4	C4-N1-C3	3.86	99.06	108.97	17	2
4	A	390	PX4	O4-P1-O2	3.86	124.13	109.07	7	5
4	A	353	PX4	O7-C7-C8	3.85	122.36	108.40	16	7
4	A	400	PX4	P1-O4-C6	3.85	99.08	121.68	1	15
4	A	415	PX4	P1-O3-C1	3.85	102.61	121.59	4	16
4	A	339	PX4	C1-C2-N1	3.85	128.65	115.78	4	2
4	A	376	PX4	O7-C23-O8	3.85	114.39	123.70	13	7
4	A	388	PX4	C7-O7-C23	3.85	127.28	117.79	18	6
4	A	388	PX4	O7-C23-O8	3.85	114.39	123.70	7	7
5	A	435	C3S	C50-C48-C54	3.85	104.32	110.36	4	12
4	A	316	PX4	C1-C2-N1	3.85	128.64	115.78	19	3
4	A	395	PX4	P1-O4-C6	3.85	99.09	121.68	8	16
4	A	408	PX4	O1-P1-O2	3.85	131.28	112.24	11	11
4	A	326	PX4	C5-N1-C3	3.85	99.07	108.97	6	7
4	A	429	PX4	O1-P1-O2	3.85	131.28	112.24	12	8
4	A	307	PX4	O7-C7-C8	3.85	122.34	108.40	20	10
4	A	352	PX4	O7-C23-O8	3.85	114.40	123.70	20	7
4	A	416	PX4	O7-C7-C8	3.85	122.34	108.40	3	6
4	A	396	PX4	P1-O4-C6	3.85	99.12	121.68	4	13
4	A	407	PX4	C4-N1-C3	3.85	99.08	108.97	11	5
5	A	432	C3S	C32-C30-C18	3.85	125.42	119.08	6	3
4	A	400	PX4	C7-O7-C23	3.85	127.26	117.79	14	5
4	A	316	PX4	O4-P1-O2	3.84	124.09	109.07	3	5
4	A	318	PX4	C4-N1-C3	3.84	99.09	108.97	9	5
4	A	346	PX4	P1-O4-C6	3.84	99.14	121.68	20	13
4	A	409	PX4	O7-C23-C24	3.84	119.79	111.50	2	13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	318	PX4	O5-C9-C10	3.84	123.97	111.91	14	7
4	A	354	PX4	C11-C10-C9	3.84	99.64	113.62	8	5
4	A	343	PX4	C5-N1-C4	3.84	99.10	108.97	3	6
4	A	375	PX4	O5-C9-O6	3.84	113.90	123.59	19	8
4	A	350	PX4	C1-C2-N1	3.84	128.60	115.78	5	5
4	A	420	PX4	O1-P1-O2	3.84	131.23	112.24	15	11
4	A	363	PX4	O7-C7-C8	3.84	122.30	108.40	16	6
4	A	404	PX4	P1-O4-C6	3.84	99.17	121.68	18	14
4	A	305	PX4	C25-C24-C23	3.84	99.67	113.62	1	2
4	A	325	PX4	C26-C25-C24	3.84	126.98	113.19	8	9
4	A	423	PX4	P1-O3-C1	3.84	102.70	121.59	16	16
4	A	331	PX4	O7-C7-C6	3.84	122.29	108.40	8	8
5	A	435	C3S	C20-C22-C12	3.84	115.67	109.65	7	6
4	A	331	PX4	P1-O4-C6	3.83	99.19	121.68	13	18
4	A	373	PX4	P1-O3-C1	3.83	102.72	121.59	19	13
4	A	394	PX4	C12-C11-C10	3.83	99.42	113.19	2	3
4	A	398	PX4	C4-N1-C3	3.83	99.13	108.97	15	6
4	A	306	PX4	O5-C9-C10	3.83	123.92	111.91	14	5
4	A	329	PX4	P1-O4-C6	3.83	99.24	121.68	9	14
5	A	435	C3S	C1-C22-C20	3.83	103.38	108.73	12	8
4	A	354	PX4	P1-O3-C1	3.83	102.76	121.59	1	15
4	A	309	PX4	O3-P1-O2	3.82	94.13	109.07	2	4
4	A	319	PX4	O7-C7-C6	3.82	122.24	108.40	6	8
4	A	323	PX4	C4-N1-C3	3.82	99.15	108.97	18	3
4	A	337	PX4	C4-N1-C3	3.82	118.80	108.97	18	7
4	A	329	PX4	C8-O5-C9	3.82	102.97	117.12	3	5
4	A	336	PX4	C7-O7-C23	3.82	127.20	117.79	6	3
4	A	424	PX4	C26-C25-C24	3.82	99.45	113.19	4	6
4	A	389	PX4	O7-C7-C6	3.82	122.23	108.40	17	10
4	A	403	PX4	O5-C9-C10	3.82	123.90	111.91	19	5
4	A	408	PX4	O5-C9-O6	3.82	113.95	123.59	17	4
4	A	305	PX4	O5-C9-C10	3.82	123.89	111.91	8	4
4	A	338	PX4	P1-O3-C1	3.82	102.80	121.59	1	17
5	A	431	C3S	C23-C26-C29	3.82	119.33	112.78	17	6
4	A	355	PX4	P1-O4-C6	3.81	99.31	121.68	8	13
4	A	360	PX4	O3-P1-O2	3.81	94.17	109.07	4	7
4	A	410	PX4	O4-P1-O2	3.81	123.96	109.07	7	2
4	A	310	PX4	C5-N1-C3	3.81	118.77	108.97	3	3
4	A	364	PX4	O1-P1-O2	3.81	131.08	112.24	17	11
4	A	357	PX4	O7-C7-C6	3.81	122.19	108.40	10	8
4	A	405	PX4	C7-O7-C23	3.81	127.17	117.79	1	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	368	PX4	O5-C9-O6	3.81	113.98	123.59	2	7
4	A	390	PX4	O5-C9-O6	3.81	113.98	123.59	17	5
4	A	417	PX4	P1-O4-C6	3.81	99.35	121.68	11	14
4	A	345	PX4	O7-C7-C6	3.81	122.18	108.40	10	7
4	A	410	PX4	P1-O3-C1	3.81	102.85	121.59	17	14
4	A	415	PX4	C28-C27-C26	3.81	95.10	114.42	10	1
4	A	350	PX4	P1-O4-C6	3.81	99.36	121.68	12	16
4	A	359	PX4	C4-N1-C3	3.81	99.19	108.97	1	5
4	A	407	PX4	C13-C12-C11	3.81	95.11	114.42	18	2
4	A	411	PX4	O7-C23-C24	3.81	119.70	111.50	7	8
4	A	426	PX4	C4-N1-C3	3.81	99.19	108.97	4	4
4	A	411	PX4	C4-N1-C3	3.80	118.75	108.97	18	6
4	A	352	PX4	C5-N1-C4	3.80	118.75	108.97	7	4
4	A	414	PX4	C7-O7-C23	3.80	127.15	117.79	12	6
4	A	424	PX4	O5-C8-C7	3.80	119.50	108.43	14	7
5	A	434	C3S	C32-C35-C38	3.80	112.67	105.13	11	10
4	A	356	PX4	O7-C23-O8	3.80	114.52	123.70	3	11
4	A	418	PX4	O4-P1-O2	3.80	123.92	109.07	2	4
4	A	327	PX4	O7-C7-C8	3.80	122.15	108.40	20	10
4	A	351	PX4	O7-C7-C6	3.80	122.15	108.40	13	5
4	A	417	PX4	P1-O3-C1	3.80	102.89	121.59	17	19
4	A	335	PX4	P1-O3-C1	3.80	102.90	121.59	16	16
4	A	416	PX4	O1-P1-O4	3.80	125.38	107.75	16	4
4	A	430	PX4	C5-N1-C3	3.80	99.21	108.97	10	3
4	A	391	PX4	O7-C23-C24	3.80	119.68	111.50	16	6
4	A	394	PX4	O3-P1-O2	3.80	94.24	109.07	3	7
4	A	377	PX4	C13-C12-C11	3.79	95.18	114.42	9	4
4	A	381	PX4	P1-O3-C1	3.79	102.92	121.59	8	14
4	A	384	PX4	O7-C7-C6	3.79	122.13	108.40	19	7
4	A	427	PX4	O1-P1-O2	3.79	130.99	112.24	10	9
4	A	316	PX4	O5-C9-O6	3.79	114.02	123.59	8	5
4	A	353	PX4	O5-C9-O6	3.79	114.02	123.59	4	5
4	A	384	PX4	O5-C9-O6	3.79	114.03	123.59	8	6
4	A	395	PX4	O1-P1-O2	3.79	130.97	112.24	6	11
4	A	389	PX4	O7-C7-C8	3.79	122.11	108.40	3	10
4	A	328	PX4	O7-C23-C24	3.78	119.66	111.50	5	9
4	A	344	PX4	C4-N1-C3	3.78	99.24	108.97	12	5
4	A	345	PX4	C5-N1-C3	3.79	118.71	108.97	10	7
4	A	366	PX4	O5-C9-C10	3.78	123.78	111.91	1	6
4	A	378	PX4	O1-P1-O2	3.78	130.93	112.24	1	13
5	A	433	C3S	C4-C1-C22	3.78	120.93	112.74	9	11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	314	PX4	C26-C25-C24	3.78	99.60	113.19	10	3
4	A	325	PX4	P1-O3-C1	3.78	102.98	121.59	19	15
4	A	366	PX4	C11-C10-C9	3.78	99.88	113.62	4	1
5	A	434	C3S	C1-C4-C7	3.78	116.77	110.33	9	8
4	A	346	PX4	O7-C7-C8	3.78	122.08	108.40	13	6
4	A	371	PX4	P1-O3-C1	3.78	102.99	121.59	15	12
4	A	378	PX4	O5-C8-C7	3.78	119.43	108.43	6	9
4	A	316	PX4	O5-C9-C10	3.78	123.76	111.91	1	2
4	A	365	PX4	O7-C7-C6	3.78	122.08	108.40	4	10
4	A	424	PX4	O7-C7-C6	3.78	122.08	108.40	14	6
4	A	307	PX4	C25-C24-C23	3.77	99.89	113.62	13	1
4	A	396	PX4	P1-O3-C1	3.78	103.00	121.59	19	15
4	A	403	PX4	P1-O4-C6	3.77	99.54	121.68	8	11
4	A	348	PX4	C5-N1-C4	3.77	99.27	108.97	4	4
4	A	354	PX4	C4-N1-C3	3.77	99.27	108.97	5	5
4	A	360	PX4	C5-N1-C4	3.77	118.68	108.97	16	4
4	A	401	PX4	C5-N1-C3	3.77	99.27	108.97	16	5
4	A	358	PX4	C5-N1-C3	3.77	118.67	108.97	16	5
4	A	416	PX4	O5-C8-C7	3.77	119.41	108.43	17	14
4	A	419	PX4	O1-P1-O2	3.77	130.88	112.24	5	11
5	A	431	C3S	C22-C20-C18	3.77	118.39	112.73	20	4
4	A	335	PX4	C7-O7-C23	3.77	127.07	117.79	11	9
4	A	349	PX4	O5-C9-C10	3.77	123.74	111.91	15	5
4	A	312	PX4	O7-C23-O8	3.77	114.60	123.70	18	5
4	A	365	PX4	O5-C9-C10	3.77	123.73	111.91	14	5
4	A	335	PX4	O5-C9-O6	3.77	114.09	123.59	10	9
4	A	400	PX4	O7-C23-C24	3.77	119.62	111.50	20	10
5	A	433	C3S	C29-C30-C18	3.77	119.96	114.38	11	3
4	A	374	PX4	C1-C2-N1	3.77	128.35	115.78	13	5
4	A	397	PX4	C12-C11-C10	3.77	99.65	113.19	17	3
4	A	322	PX4	O5-C9-O6	3.76	114.09	123.59	15	5
4	A	412	PX4	C5-N1-C4	3.76	99.30	108.97	14	6
4	A	402	PX4	C4-N1-C3	3.76	99.31	108.97	10	6
4	A	406	PX4	O4-P1-O2	3.76	123.76	109.07	5	2
4	A	426	PX4	P1-O4-C6	3.76	99.63	121.68	15	11
4	A	427	PX4	C5-N1-C4	3.76	99.31	108.97	1	3
4	A	341	PX4	O7-C7-C8	3.76	122.01	108.40	9	10
4	A	382	PX4	O5-C8-C7	3.76	119.37	108.43	16	13
4	A	383	PX4	C5-N1-C4	3.76	99.31	108.97	9	5
4	A	351	PX4	C12-C11-C10	3.76	99.69	113.19	20	3
4	A	370	PX4	O7-C7-C8	3.75	122.00	108.40	11	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	377	PX4	C1-C2-N1	3.75	128.31	115.78	13	6
4	A	430	PX4	O4-P1-O2	3.75	94.40	109.07	10	4
4	A	307	PX4	C7-O7-C23	3.75	127.03	117.79	11	3
4	A	370	PX4	C1-C2-N1	3.75	128.31	115.78	5	7
4	A	328	PX4	C4-N1-C3	3.75	99.33	108.97	11	6
4	A	374	PX4	C26-C25-C24	3.75	99.71	113.19	11	2
4	A	399	PX4	C31-C30-C29	3.75	95.38	114.42	4	2
4	A	427	PX4	O4-P1-O2	3.75	123.72	109.07	7	2
4	A	409	PX4	O7-C7-C6	3.75	121.98	108.40	1	8
4	A	415	PX4	O7-C23-O8	3.75	114.64	123.70	6	8
4	A	311	PX4	C29-C28-C27	3.75	95.40	114.42	18	1
4	A	325	PX4	C12-C11-C10	3.75	99.72	113.19	20	4
4	A	406	PX4	C7-O7-C23	3.75	127.02	117.79	11	7
4	A	310	PX4	O7-C7-C8	3.75	121.96	108.40	3	7
4	A	342	PX4	O7-C23-C24	3.75	119.57	111.50	4	9
4	A	397	PX4	O1-P1-O3	3.75	90.35	107.75	3	3
4	A	377	PX4	O5-C8-C7	3.74	119.33	108.43	10	10
4	A	339	PX4	O1-P1-O2	3.74	130.73	112.24	11	9
4	A	369	PX4	P1-O4-C6	3.74	99.74	121.68	5	10
4	A	418	PX4	C4-N1-C2	3.74	125.23	109.92	17	2
4	A	347	PX4	O5-C8-C7	3.74	119.32	108.43	4	14
4	A	405	PX4	O5-C9-C10	3.74	123.65	111.91	11	7
4	A	410	PX4	C4-N1-C3	3.74	99.36	108.97	9	6
4	A	379	PX4	O5-C9-C10	3.74	123.64	111.91	12	5
4	A	385	PX4	P1-O4-C6	3.74	99.76	121.68	10	12
4	A	391	PX4	O5-C8-C7	3.74	119.31	108.43	19	8
4	A	386	PX4	O7-C7-C8	3.74	121.93	108.40	16	8
4	A	388	PX4	O7-C7-C8	3.74	121.93	108.40	14	7
4	A	405	PX4	O1-P1-O2	3.74	130.72	112.24	1	11
5	A	433	C3S	C7-C9-C12	3.74	117.33	111.52	12	11
4	A	310	PX4	C11-C10-C9	3.74	100.03	113.62	13	4
4	A	327	PX4	C4-N1-C3	3.74	99.37	108.97	1	2
4	A	358	PX4	O7-C7-C6	3.74	121.93	108.40	5	8
4	A	367	PX4	C12-C11-C10	3.74	99.76	113.19	7	4
5	A	433	C3S	C23-C20-C18	3.74	106.37	111.75	7	10
4	A	379	PX4	O1-P1-O2	3.73	130.70	112.24	17	7
4	A	317	PX4	C5-N1-C4	3.73	99.38	108.97	7	5
4	A	336	PX4	O3-P1-O2	3.73	94.49	109.07	9	4
4	A	387	PX4	O5-C9-O6	3.73	114.18	123.59	19	6
4	A	393	PX4	C12-C11-C10	3.73	99.78	113.19	5	5
4	A	345	PX4	O7-C7-C8	3.73	121.90	108.40	3	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	350	PX4	C4-N1-C3	3.73	99.39	108.97	12	5
4	A	425	PX4	O3-C1-C2	3.73	128.77	109.16	4	2
4	A	319	PX4	O7-C7-C8	3.72	121.89	108.40	1	9
4	A	349	PX4	C12-C11-C10	3.73	99.80	113.19	17	2
4	A	364	PX4	C17-C16-C15	3.73	95.51	114.42	18	2
4	A	419	PX4	C26-C25-C24	3.72	99.80	113.19	13	1
4	A	423	PX4	O3-P1-O2	3.72	94.52	109.07	13	6
4	A	311	PX4	O5-C9-O6	3.72	114.20	123.59	18	4
4	A	313	PX4	C1-C2-N1	3.72	128.21	115.78	14	7
4	A	367	PX4	C1-C2-N1	3.72	128.21	115.78	15	5
4	A	333	PX4	C1-C2-N1	3.72	128.20	115.78	10	9
4	A	360	PX4	C1-C2-N1	3.72	128.20	115.78	6	4
4	A	306	PX4	O7-C7-C8	3.72	121.86	108.40	3	12
4	A	395	PX4	C31-C30-C29	3.72	95.55	114.42	19	1
4	A	413	PX4	C7-O7-C23	3.72	126.94	117.79	7	7
4	A	415	PX4	C4-N1-C3	3.72	118.53	108.97	13	6
4	A	335	PX4	C4-N1-C3	3.71	118.53	108.97	19	6
4	A	361	PX4	C5-N1-C4	3.71	99.42	108.97	20	6
4	A	383	PX4	C8-O5-C9	3.71	103.36	117.12	12	3
4	A	399	PX4	O1-P1-O3	3.72	90.49	107.75	16	5
4	A	400	PX4	O7-C23-O8	3.71	114.72	123.70	4	4
4	A	408	PX4	C4-N1-C3	3.71	99.42	108.97	7	5
4	A	314	PX4	P1-O4-C6	3.71	99.91	121.68	5	12
4	A	335	PX4	P1-O4-C6	3.71	99.91	121.68	3	11
4	A	336	PX4	C1-C2-N1	3.71	128.17	115.78	16	5
4	A	405	PX4	O5-C9-O6	3.71	114.22	123.59	9	7
4	A	405	PX4	O7-C7-C6	3.71	121.84	108.40	18	7
4	A	385	PX4	O1-P1-O2	3.71	130.58	112.24	19	14
4	A	388	PX4	O3-P1-O2	3.71	94.57	109.07	3	1
5	A	431	C3S	C23-C20-C18	3.71	106.41	111.75	11	4
4	A	425	PX4	C7-O7-C23	3.71	126.92	117.79	20	3
4	A	324	PX4	O4-P1-O2	3.70	123.54	109.07	18	3
4	A	339	PX4	O7-C23-O8	3.70	114.75	123.70	1	8
4	A	336	PX4	C8-O5-C9	3.70	103.41	117.12	8	4
4	A	332	PX4	O4-P1-O2	3.70	123.52	109.07	17	3
4	A	385	PX4	C11-C10-C9	3.70	100.17	113.62	18	2
4	A	410	PX4	P1-O4-C6	3.70	99.98	121.68	19	12
4	A	340	PX4	O1-P1-O2	3.70	130.53	112.24	7	8
4	A	345	PX4	C4-N1-C3	3.70	118.48	108.97	18	7
4	A	372	PX4	O1-P1-O2	3.70	130.52	112.24	3	9
4	A	410	PX4	O7-C7-C6	3.70	121.78	108.40	2	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	353	PX4	C12-C11-C10	3.69	99.91	113.19	17	3
4	A	401	PX4	O5-C9-C10	3.69	123.50	111.91	4	8
4	A	329	PX4	O1-P1-O2	3.69	130.50	112.24	17	11
4	A	411	PX4	O3-P1-O2	3.69	94.63	109.07	13	6
4	A	355	PX4	O7-C23-O8	3.69	114.78	123.70	8	8
4	A	414	PX4	C5-N1-C3	3.69	99.48	108.97	11	4
4	A	330	PX4	O7-C23-O8	3.69	114.78	123.70	11	5
4	A	369	PX4	C1-C2-N1	3.69	128.11	115.78	3	5
4	A	374	PX4	O7-C7-C8	3.69	121.77	108.40	2	14
4	A	354	PX4	C25-C24-C23	3.69	100.20	113.62	15	2
4	A	398	PX4	O7-C7-C6	3.69	121.76	108.40	2	8
5	A	434	C3S	C1-C22-C20	3.69	103.57	108.73	1	6
5	A	435	C3S	C4-C1-C22	3.69	120.73	112.74	12	10
4	A	398	PX4	O5-C9-O6	3.69	114.28	123.59	8	9
5	A	433	C3S	C15-C18-C20	3.69	114.18	109.71	9	8
4	A	346	PX4	C1-C2-N1	3.69	128.09	115.78	6	4
4	A	350	PX4	C5-N1-C4	3.68	99.50	108.97	16	3
4	A	382	PX4	P1-O4-C6	3.69	100.07	121.68	16	13
5	A	433	C3S	C23-C26-C29	3.69	119.10	112.78	13	6
4	A	316	PX4	C15-C14-C13	3.68	95.73	114.42	10	4
4	A	365	PX4	O1-P1-O3	3.68	90.64	107.75	16	3
4	A	331	PX4	O3-P1-O2	3.68	94.69	109.07	8	5
4	A	381	PX4	C7-O7-C23	3.68	108.73	117.79	20	3
4	A	400	PX4	O1-P1-O3	3.68	90.66	107.75	19	3
4	A	404	PX4	O7-C7-C8	3.68	121.72	108.40	8	3
4	A	414	PX4	O7-C23-C24	3.68	119.43	111.50	10	8
4	A	328	PX4	O3-P1-O2	3.68	94.69	109.07	9	6
4	A	337	PX4	P1-O4-C6	3.68	100.10	121.68	11	12
4	A	347	PX4	C4-N1-C2	3.68	94.86	109.92	2	2
4	A	321	PX4	O7-C7-C6	3.68	121.72	108.40	7	6
4	A	329	PX4	P1-O3-C1	3.68	103.49	121.59	3	14
4	A	333	PX4	C5-N1-C3	3.68	99.52	108.97	11	5
4	A	395	PX4	O1-P1-O3	3.67	90.68	107.75	9	3
4	A	410	PX4	C5-N1-C3	3.67	99.53	108.97	13	3
4	A	406	PX4	P1-O3-C1	3.67	103.51	121.59	13	12
4	A	315	PX4	P1-O4-C6	3.67	100.15	121.68	4	15
4	A	406	PX4	P1-O4-C6	3.67	100.15	121.68	1	15
4	A	323	PX4	O7-C23-O8	3.67	114.83	123.70	4	8
4	A	392	PX4	P1-O4-C6	3.67	100.16	121.68	11	11
4	A	314	PX4	C7-O7-C23	3.67	126.82	117.79	18	6
4	A	318	PX4	P1-O3-C1	3.67	103.53	121.59	10	18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	427	PX4	C11-C10-C9	3.67	100.28	113.62	17	2
5	A	435	C3S	C22-C12-C13	3.67	117.29	122.90	14	8
4	A	361	PX4	O7-C23-O8	3.67	114.84	123.70	12	8
4	A	384	PX4	C4-N1-C3	3.67	99.55	108.97	17	4
4	A	343	PX4	P1-O3-C1	3.67	103.55	121.59	12	19
4	A	305	PX4	C8-C7-C6	3.66	103.12	111.79	6	7
5	A	433	C3S	C22-C12-C13	3.66	117.30	122.90	18	6
4	A	342	PX4	O3-P1-O2	3.66	94.76	109.07	13	4
4	A	347	PX4	C5-N1-C3	3.66	99.56	108.97	17	2
4	A	379	PX4	C15-C14-C13	3.66	95.83	114.42	13	2
5	A	432	C3S	C26-C23-C20	3.66	119.46	113.11	13	5
4	A	342	PX4	C7-O7-C23	3.66	126.81	117.79	16	5
5	A	434	C3S	O3-S1-O2	3.66	121.22	108.49	11	17
4	A	389	PX4	O1-P1-O4	3.66	124.75	107.75	19	4
4	A	392	PX4	C11-C10-C9	3.66	100.31	113.62	12	4
4	A	428	PX4	O7-C23-O8	3.66	114.86	123.70	8	5
4	A	332	PX4	C4-N1-C3	3.66	99.57	108.97	2	3
4	A	338	PX4	C26-C25-C24	3.66	100.04	113.19	3	2
4	A	382	PX4	O3-P1-O2	3.66	94.78	109.07	15	5
4	A	373	PX4	O5-C9-C10	3.66	123.38	111.91	9	5
4	A	339	PX4	C5-N1-C4	3.65	118.37	108.97	14	4
4	A	358	PX4	O5-C9-O6	3.65	114.37	123.59	2	7
4	A	383	PX4	P1-O4-C6	3.65	100.25	121.68	1	13
4	A	316	PX4	P1-O4-C6	3.65	100.26	121.68	10	14
4	A	383	PX4	O1-P1-O4	3.65	124.72	107.75	2	4
4	A	336	PX4	O5-C9-O6	3.65	114.38	123.59	20	8
4	A	379	PX4	P1-O3-C1	3.65	103.61	121.59	9	15
4	A	400	PX4	C25-C24-C23	3.65	100.34	113.62	15	1
4	A	388	PX4	P1-O4-C6	3.65	100.28	121.68	4	16
4	A	381	PX4	O5-C9-C10	3.65	123.36	111.91	14	6
4	A	403	PX4	O5-C9-O6	3.65	114.38	123.59	2	4
4	A	350	PX4	C7-O7-C23	3.65	126.77	117.79	11	5
4	A	395	PX4	O5-C8-C7	3.65	119.05	108.43	16	14
4	A	414	PX4	P1-O4-C6	3.65	100.31	121.68	7	14
4	A	416	PX4	C7-O7-C23	3.65	108.81	117.79	5	7
4	A	323	PX4	O7-C7-C6	3.64	121.59	108.40	9	4
4	A	394	PX4	C7-O7-C23	3.64	126.76	117.79	18	3
4	A	397	PX4	O3-P1-O2	3.64	94.83	109.07	18	6
4	A	409	PX4	O5-C9-C10	3.64	123.34	111.91	11	6
4	A	344	PX4	P1-O4-C6	3.64	100.33	121.68	9	12
4	A	375	PX4	O1-P1-O2	3.64	130.24	112.24	13	9

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	384	PX4	O1-P1-O2	3.64	130.24	112.24	11	11
4	A	387	PX4	O3-P1-O2	3.64	94.84	109.07	9	6
4	A	418	PX4	O5-C9-O6	3.64	114.41	123.59	13	4
4	A	364	PX4	O7-C23-O8	3.64	114.92	123.70	11	7
4	A	326	PX4	C11-C10-C9	3.63	100.41	113.62	17	4
4	A	348	PX4	C5-N1-C3	3.63	99.63	108.97	8	3
4	A	310	PX4	O4-P1-O2	3.63	123.25	109.07	3	3
5	A	431	C3S	C26-C23-C20	3.63	119.40	113.11	6	4
4	A	342	PX4	O1-P1-O2	3.63	130.17	112.24	9	12
4	A	380	PX4	C7-O7-C23	3.63	126.72	117.79	16	6
4	A	391	PX4	O5-C9-O6	3.63	114.44	123.59	5	5
4	A	411	PX4	C5-N1-C3	3.63	99.65	108.97	16	6
4	A	310	PX4	O5-C9-O6	3.62	114.44	123.59	12	8
4	A	415	PX4	O7-C7-C6	3.62	121.53	108.40	18	8
4	A	316	PX4	C5-N1-C3	3.62	99.66	108.97	2	4
4	A	310	PX4	P1-O4-C6	3.62	100.45	121.68	19	13
4	A	424	PX4	O1-P1-O2	3.62	130.14	112.24	20	10
4	A	321	PX4	C3-N1-C2	3.62	124.72	109.92	3	2
4	A	324	PX4	P1-O4-C6	3.62	100.46	121.68	13	12
4	A	341	PX4	O7-C23-O8	3.62	114.96	123.70	13	6
4	A	381	PX4	C4-N1-C3	3.62	99.67	108.97	16	5
4	A	429	PX4	P1-O4-C6	3.62	100.46	121.68	17	13
4	A	311	PX4	P1-O4-C6	3.62	100.47	121.68	15	16
4	A	386	PX4	O1-P1-O2	3.62	130.12	112.24	11	9
5	A	434	C3S	C40-C29-C38	3.62	104.97	111.71	12	3
4	A	370	PX4	C7-O7-C23	3.62	126.69	117.79	13	3
4	A	356	PX4	C14-C13-C12	3.61	96.08	114.42	9	1
4	A	325	PX4	P1-O4-C6	3.61	100.51	121.68	14	15
4	A	347	PX4	C1-C2-N1	3.61	127.83	115.78	14	2
4	A	404	PX4	O5-C9-O6	3.61	114.48	123.59	11	4
4	A	358	PX4	O5-C9-C10	3.61	123.23	111.91	7	6
4	A	384	PX4	O7-C7-C8	3.61	121.46	108.40	8	10
4	A	421	PX4	C14-C13-C12	3.61	96.11	114.42	12	2
4	A	305	PX4	C5-N1-C3	3.61	99.70	108.97	1	4
4	A	422	PX4	O3-P1-O2	3.61	94.97	109.07	13	7
4	A	336	PX4	O7-C7-C6	3.61	121.46	108.40	15	9
4	A	401	PX4	C7-O7-C23	3.61	126.67	117.79	10	7
5	A	431	C3S	C15-C13-C12	3.60	118.41	125.06	8	6
4	A	408	PX4	C32-C31-C30	3.60	96.13	114.42	9	1
5	A	433	C3S	C1-C22-C20	3.60	113.76	108.73	1	7
4	A	314	PX4	O5-C8-C7	3.60	118.92	108.43	1	14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	385	PX4	O5-C9-O6	3.60	114.50	123.59	1	6
4	A	313	PX4	C12-C11-C10	3.60	100.25	113.19	17	5
4	A	322	PX4	O7-C7-C8	3.60	121.44	108.40	1	6
4	A	347	PX4	O3-P1-O2	3.60	95.00	109.07	19	9
4	A	367	PX4	O7-C7-C6	3.60	121.43	108.40	17	4
4	A	369	PX4	C4-N1-C3	3.60	99.72	108.97	13	2
4	A	373	PX4	C5-N1-C3	3.60	118.23	108.97	20	4
4	A	381	PX4	P1-O4-C6	3.60	100.58	121.68	19	16
4	A	380	PX4	C26-C25-C24	3.60	100.26	113.19	9	3
4	A	415	PX4	P1-O4-C6	3.60	100.59	121.68	7	14
4	A	424	PX4	O1-P1-O3	3.60	124.45	107.75	2	5
4	A	426	PX4	O3-P1-O2	3.60	95.01	109.07	18	5
4	A	382	PX4	O7-C23-O8	3.60	115.01	123.70	16	5
4	A	387	PX4	C12-C11-C10	3.60	100.27	113.19	16	3
5	A	433	C3S	C26-C29-C30	3.60	101.69	107.27	4	3
4	A	344	PX4	O1-P1-O2	3.60	130.01	112.24	18	9
4	A	392	PX4	O7-C23-O8	3.59	115.02	123.70	11	9
4	A	349	PX4	O7-C23-O8	3.59	115.02	123.70	7	6
4	A	351	PX4	P1-O4-C6	3.59	100.61	121.68	3	12
4	A	328	PX4	O1-P1-O2	3.59	130.00	112.24	18	10
4	A	372	PX4	C12-C11-C10	3.59	100.28	113.19	9	3
4	A	378	PX4	C5-N1-C4	3.59	99.74	108.97	11	4
4	A	410	PX4	O1-P1-O4	3.59	124.42	107.75	2	4
4	A	418	PX4	C17-C16-C15	3.59	96.20	114.42	9	6
4	A	311	PX4	C5-N1-C3	3.59	118.20	108.97	5	9
4	A	313	PX4	C5-N1-C3	3.59	99.75	108.97	20	2
4	A	318	PX4	O7-C7-C6	3.59	121.40	108.40	8	9
4	A	387	PX4	P1-O4-C6	3.59	100.63	121.68	8	13
4	A	318	PX4	P1-O4-C6	3.59	100.65	121.68	2	12
4	A	429	PX4	C1-C2-N1	3.59	127.75	115.78	6	7
4	A	396	PX4	O7-C7-C8	3.58	121.38	108.40	18	9
5	A	435	C3S	C22-C20-C18	3.58	107.36	112.73	10	10
4	A	331	PX4	C7-O7-C23	3.58	126.61	117.79	7	8
4	A	395	PX4	O3-C1-C2	3.58	128.00	109.16	18	3
4	A	348	PX4	C7-O7-C23	3.58	126.61	117.79	13	6
4	A	411	PX4	C32-C31-C30	3.58	96.25	114.42	9	1
4	A	314	PX4	C1-C2-N1	3.58	127.72	115.78	16	6
4	A	353	PX4	O7-C7-C6	3.58	121.36	108.40	13	7
4	A	360	PX4	C3-N1-C2	3.58	124.55	109.92	20	1
4	A	394	PX4	C16-C15-C14	3.58	96.27	114.42	13	3
4	A	407	PX4	C5-N1-C3	3.58	99.78	108.97	14	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	413	PX4	O5-C9-O6	3.58	114.56	123.59	20	4
4	A	333	PX4	O5-C9-C10	3.57	123.12	111.91	7	6
4	A	347	PX4	C12-C11-C10	3.58	100.34	113.19	9	2
4	A	347	PX4	C25-C24-C23	3.57	126.62	113.62	8	3
4	A	348	PX4	P1-O4-C6	3.57	100.72	121.68	17	12
4	A	308	PX4	C12-C11-C10	3.57	100.35	113.19	9	3
4	A	406	PX4	C26-C25-C24	3.57	100.35	113.19	20	8
4	A	310	PX4	C17-C16-C15	3.57	96.30	114.42	13	1
4	A	371	PX4	C7-O7-C23	3.57	109.00	117.79	3	4
5	A	434	C3S	O4-S1-O2	3.57	126.56	112.22	6	3
4	A	372	PX4	O7-C7-C8	3.57	121.33	108.40	9	10
5	A	435	C3S	C30-C29-C38	3.57	104.30	100.07	8	5
4	A	388	PX4	C5-N1-C3	3.57	99.81	108.97	8	3
4	A	421	PX4	C5-N1-C4	3.57	99.81	108.97	14	6
4	A	412	PX4	P1-O4-C6	3.56	100.78	121.68	4	14
4	A	357	PX4	C5-N1-C3	3.56	99.82	108.97	3	9
4	A	357	PX4	O5-C9-C10	3.56	123.08	111.91	13	6
4	A	362	PX4	C4-N1-C2	3.56	124.49	109.92	5	2
4	A	400	PX4	O3-P1-O2	3.56	95.15	109.07	18	3
5	A	432	C3S	C35-C38-C48	3.56	117.66	112.15	13	4
4	A	345	PX4	O3-P1-O2	3.56	95.16	109.07	7	3
4	A	383	PX4	O1-P1-O3	3.56	91.21	107.75	18	5
4	A	374	PX4	P1-O3-C1	3.56	104.08	121.59	2	14
4	A	381	PX4	C5-N1-C3	3.56	99.83	108.97	6	7
4	A	399	PX4	P1-O4-C6	3.56	100.82	121.68	17	15
4	A	414	PX4	O7-C7-C8	3.56	121.28	108.40	1	10
4	A	416	PX4	C30-C29-C28	3.56	96.36	114.42	8	2
4	A	356	PX4	C1-C2-N1	3.55	127.64	115.78	11	9
4	A	429	PX4	C12-C11-C10	3.55	100.43	113.19	15	3
4	A	385	PX4	C4-N1-C3	3.55	99.85	108.97	17	3
4	A	389	PX4	C5-N1-C4	3.55	118.10	108.97	2	5
4	A	317	PX4	C12-C11-C10	3.55	125.94	113.19	13	6
4	A	319	PX4	C4-N1-C3	3.55	99.86	108.97	18	3
4	A	338	PX4	O5-C9-C10	3.55	123.04	111.91	2	10
4	A	399	PX4	C7-O7-C23	3.55	126.52	117.79	3	8
4	A	326	PX4	O7-C7-C6	3.54	121.23	108.40	15	10
4	A	330	PX4	O5-C9-C10	3.54	123.03	111.91	8	8
4	A	372	PX4	C26-C25-C24	3.54	100.45	113.19	8	5
4	A	407	PX4	C1-C2-N1	3.54	127.62	115.78	6	5
4	A	369	PX4	O5-C9-O6	3.54	114.65	123.59	14	5
4	A	369	PX4	C5-N1-C3	3.54	99.87	108.97	2	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	419	PX4	C4-N1-C3	3.54	99.87	108.97	12	7
4	A	334	PX4	O5-C9-C10	3.54	123.01	111.91	6	7
4	A	344	PX4	O7-C7-C6	3.54	121.22	108.40	20	9
4	A	368	PX4	C4-N1-C2	3.54	124.39	109.92	6	3
4	A	392	PX4	C8-O5-C9	3.54	104.02	117.12	1	4
5	A	432	C3S	C1-C22-C12	3.54	115.23	108.75	7	5
4	A	413	PX4	O7-C7-C6	3.54	121.21	108.40	15	11
4	A	429	PX4	C5-N1-C4	3.54	99.88	108.97	2	5
4	A	331	PX4	C4-N1-C3	3.54	99.88	108.97	7	4
4	A	319	PX4	P1-O4-C6	3.53	100.95	121.68	9	18
4	A	341	PX4	O7-C7-C6	3.54	121.20	108.40	2	9
4	A	352	PX4	C7-O7-C23	3.54	126.49	117.79	10	5
4	A	374	PX4	P1-O4-C6	3.53	100.95	121.68	2	11
4	A	400	PX4	O5-C9-C10	3.53	123.00	111.91	9	8
4	A	406	PX4	O5-C9-O6	3.53	114.67	123.59	10	4
4	A	421	PX4	O7-C7-C8	3.53	121.20	108.40	14	5
4	A	312	PX4	O5-C9-O6	3.53	114.67	123.59	5	4
4	A	343	PX4	O4-P1-O2	3.53	122.87	109.07	20	3
4	A	356	PX4	O3-P1-O2	3.53	95.26	109.07	19	1
4	A	371	PX4	C8-O5-C9	3.53	130.21	117.12	12	5
5	A	433	C3S	C35-C32-C30	3.53	98.13	105.13	3	7
5	A	436	C3S	C20-C22-C12	3.53	115.19	109.65	7	8
4	A	390	PX4	C8-O5-C9	3.53	130.20	117.12	19	5
4	A	430	PX4	C1-C2-N1	3.53	127.57	115.78	8	7
4	A	309	PX4	C4-N1-C3	3.53	118.05	108.97	19	7
4	A	335	PX4	O1-P1-O2	3.53	129.69	112.24	13	8
4	A	352	PX4	O7-C7-C6	3.53	121.19	108.40	3	5
4	A	344	PX4	C11-C10-C9	3.53	100.78	113.62	15	2
4	A	419	PX4	C20-C19-C18	3.53	96.51	114.42	16	2
4	A	311	PX4	C7-O7-C23	3.53	109.11	117.79	10	4
4	A	348	PX4	O7-C23-O8	3.53	115.18	123.70	10	7
4	A	370	PX4	O1-P1-O2	3.53	129.67	112.24	16	10
4	A	372	PX4	P1-O4-C6	3.53	101.01	121.68	5	12
4	A	339	PX4	O7-C7-C6	3.52	121.16	108.40	5	8
4	A	367	PX4	C5-N1-C4	3.52	99.91	108.97	17	4
4	A	308	PX4	C1-C2-N1	3.52	127.53	115.78	19	6
4	A	326	PX4	C17-C16-C15	3.52	96.56	114.42	2	3
4	A	334	PX4	C1-C2-N1	3.52	127.53	115.78	2	7
4	A	342	PX4	O7-C7-C8	3.52	121.15	108.40	18	9
4	A	393	PX4	O1-P1-O2	3.52	129.64	112.24	17	4
4	A	401	PX4	O7-C23-O8	3.52	115.20	123.70	5	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	343	PX4	C26-C25-C24	3.52	100.55	113.19	19	8
4	A	424	PX4	O7-C7-C8	3.52	121.14	108.40	7	11
4	A	339	PX4	C7-O7-C23	3.52	126.45	117.79	17	5
4	A	371	PX4	O7-C23-O8	3.52	115.20	123.70	14	5
4	A	382	PX4	C1-C2-N1	3.52	127.52	115.78	5	3
4	A	374	PX4	C12-C11-C10	3.51	100.56	113.19	10	3
4	A	397	PX4	O7-C23-O8	3.52	115.21	123.70	3	10
4	A	321	PX4	C33-C32-C31	3.51	96.59	114.42	12	1
4	A	333	PX4	O1-P1-O2	3.51	129.61	112.24	18	12
4	A	353	PX4	C7-O7-C23	3.51	109.14	117.79	13	2
4	A	384	PX4	C33-C32-C31	3.51	96.59	114.42	12	2
4	A	309	PX4	C25-C24-C23	3.51	100.85	113.62	11	2
4	A	320	PX4	P1-O4-C6	3.51	101.09	121.68	14	16
4	A	422	PX4	O7-C7-C6	3.51	121.12	108.40	10	10
4	A	330	PX4	P1-O4-C6	3.51	101.10	121.68	10	12
4	A	372	PX4	C5-N1-C3	3.51	99.95	108.97	10	5
4	A	344	PX4	C16-C15-C14	3.51	96.62	114.42	3	4
4	A	422	PX4	O7-C7-C8	3.51	121.10	108.40	11	4
4	A	331	PX4	C26-C25-C24	3.51	100.59	113.19	8	4
4	A	366	PX4	O1-P1-O2	3.51	129.58	112.24	3	8
4	A	417	PX4	O5-C9-C10	3.51	122.91	111.91	18	7
4	A	343	PX4	O7-C7-C8	3.51	121.09	108.40	17	10
4	A	355	PX4	C1-C2-N1	3.50	127.48	115.78	20	7
4	A	377	PX4	O1-P1-O2	3.51	129.57	112.24	17	10
4	A	363	PX4	C5-N1-C4	3.50	99.96	108.97	16	7
4	A	363	PX4	P1-O4-C6	3.50	101.13	121.68	8	9
4	A	413	PX4	C11-C10-C9	3.50	100.88	113.62	11	4
4	A	419	PX4	P1-O4-C6	3.50	101.13	121.68	16	13
4	A	398	PX4	O3-P1-O2	3.50	95.38	109.07	18	6
5	A	433	C3S	C35-C38-C29	3.50	99.62	103.84	11	4
4	A	324	PX4	C25-C24-C23	3.50	100.89	113.62	7	2
4	A	330	PX4	O7-C7-C6	3.50	121.08	108.40	8	8
4	A	355	PX4	C25-C24-C23	3.50	100.89	113.62	6	2
4	A	397	PX4	O4-P1-O2	3.50	122.74	109.07	3	1
4	A	331	PX4	O7-C23-O8	3.50	115.25	123.70	8	8
4	A	392	PX4	O4-P1-O2	3.50	95.40	109.07	5	4
4	A	319	PX4	C34-C33-C32	3.50	96.67	114.42	7	2
4	A	362	PX4	P1-O4-C6	3.50	101.17	121.68	14	15
4	A	369	PX4	O7-C7-C8	3.50	121.06	108.40	8	12
4	A	423	PX4	O7-C23-O8	3.50	115.25	123.70	4	11
4	A	321	PX4	C29-C28-C27	3.49	96.69	114.42	13	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	353	PX4	C5-N1-C3	3.49	99.99	108.97	14	2
4	A	313	PX4	C7-O7-C23	3.49	126.39	117.79	5	4
4	A	370	PX4	O4-P1-O2	3.49	122.71	109.07	19	3
5	A	432	C3S	C23-C26-C29	3.49	118.77	112.78	17	2
4	A	314	PX4	C5-N1-C2	3.49	124.19	109.92	8	2
4	A	400	PX4	O3-C1-C2	3.49	127.52	109.16	13	3
4	A	330	PX4	O3-P1-O2	3.49	95.44	109.07	17	2
4	A	422	PX4	O1-P1-O2	3.49	129.48	112.24	10	11
4	A	425	PX4	O7-C7-C8	3.49	121.03	108.40	14	9
4	A	310	PX4	P1-O3-C1	3.49	104.43	121.59	17	15
4	A	322	PX4	O4-P1-O2	3.49	95.45	109.07	16	3
4	A	411	PX4	C4-N1-C2	3.49	95.65	109.92	3	2
4	A	379	PX4	C17-C16-C15	3.48	96.75	114.42	20	2
4	A	405	PX4	O7-C7-C8	3.48	121.01	108.40	6	7
4	A	417	PX4	O7-C23-O8	3.48	115.28	123.70	7	11
4	A	352	PX4	P1-O3-C1	3.48	104.45	121.59	8	15
4	A	366	PX4	O7-C7-C8	3.48	121.00	108.40	9	9
4	A	388	PX4	O5-C9-O6	3.48	114.81	123.59	9	6
4	A	326	PX4	C33-C32-C31	3.48	96.76	114.42	4	2
4	A	334	PX4	O1-P1-O2	3.48	129.43	112.24	2	9
4	A	353	PX4	P1-O4-C6	3.48	101.28	121.68	9	13
4	A	389	PX4	P1-O4-C6	3.48	101.28	121.68	19	7
4	A	380	PX4	C1-C2-N1	3.48	127.39	115.78	10	7
4	A	393	PX4	O7-C7-C6	3.48	120.99	108.40	15	7
4	A	393	PX4	O5-C9-C10	3.48	122.82	111.91	20	4
4	A	430	PX4	O7-C7-C8	3.48	121.00	108.40	5	5
4	A	345	PX4	O5-C9-C10	3.47	122.81	111.91	9	2
4	A	360	PX4	C32-C31-C30	3.47	96.79	114.42	12	4
4	A	405	PX4	C4-N1-C3	3.47	100.04	108.97	5	7
4	A	427	PX4	O5-C9-C10	3.47	122.81	111.91	15	6
4	A	353	PX4	C11-C10-C9	3.47	126.25	113.62	2	4
4	A	386	PX4	P1-O4-C6	3.47	101.32	121.68	20	14
4	A	375	PX4	P1-O4-C6	3.47	101.32	121.68	16	15
4	A	390	PX4	C26-C25-C24	3.47	125.67	113.19	20	3
5	A	435	C3S	C1-C4-C7	3.47	116.24	110.33	16	6
4	A	383	PX4	O7-C7-C8	3.47	120.96	108.40	12	5
4	A	400	PX4	O1-P1-O2	3.47	129.39	112.24	8	10
4	A	346	PX4	O5-C9-O6	3.47	114.84	123.59	19	9
4	A	362	PX4	O7-C23-O8	3.47	115.32	123.70	9	3
4	A	313	PX4	C26-C25-C24	3.47	100.73	113.19	11	3
4	A	350	PX4	O7-C23-O8	3.47	115.33	123.70	18	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	353	PX4	C1-C2-N1	3.47	127.35	115.78	5	5
4	A	320	PX4	C4-N1-C3	3.46	100.07	108.97	19	6
4	A	371	PX4	O5-C9-C10	3.46	122.78	111.91	20	5
4	A	385	PX4	C7-O7-C23	3.46	126.32	117.79	6	4
4	A	406	PX4	O1-P1-O3	3.46	91.66	107.75	1	3
4	A	407	PX4	C7-O7-C23	3.46	126.32	117.79	6	5
5	A	432	C3S	C44-C22-C1	3.46	103.96	109.43	5	6
4	A	332	PX4	C1-C2-N1	3.46	127.34	115.78	14	6
4	A	316	PX4	C18-C17-C16	3.46	96.86	114.42	19	5
4	A	327	PX4	O1-P1-O2	3.46	129.34	112.24	19	8
4	A	354	PX4	C8-O5-C9	3.46	104.32	117.12	16	4
4	A	429	PX4	O7-C7-C6	3.46	120.92	108.40	2	12
4	A	306	PX4	C4-N1-C3	3.46	100.09	108.97	13	3
4	A	361	PX4	C7-O7-C23	3.46	126.30	117.79	15	6
4	A	374	PX4	O5-C8-C7	3.46	118.50	108.43	5	6
5	A	431	C3S	C40-C29-C38	3.46	118.16	111.71	8	6
4	A	326	PX4	C3-N1-C2	3.45	95.78	109.92	7	2
4	A	343	PX4	C7-O7-C23	3.45	126.30	117.79	6	5
4	A	357	PX4	O3-P1-O2	3.45	95.57	109.07	10	4
4	A	340	PX4	C7-O7-C23	3.45	126.29	117.79	17	5
4	A	386	PX4	O7-C23-O8	3.45	115.36	123.70	2	8
4	A	414	PX4	P1-O3-C1	3.45	104.59	121.59	5	13
4	A	307	PX4	C1-C2-N1	3.45	127.30	115.78	5	6
4	A	313	PX4	O7-C7-C6	3.45	120.89	108.40	17	9
4	A	336	PX4	P1-O4-C6	3.45	101.45	121.68	15	13
4	A	369	PX4	C11-C10-C9	3.45	101.07	113.62	1	3
4	A	389	PX4	C1-C2-N1	3.45	127.30	115.78	1	4
4	A	328	PX4	O7-C7-C6	3.45	120.89	108.40	13	7
4	A	386	PX4	C25-C24-C23	3.45	101.08	113.62	4	3
4	A	352	PX4	P1-O4-C6	3.45	101.46	121.68	9	14
4	A	343	PX4	O5-C9-O6	3.45	114.89	123.59	13	6
4	A	403	PX4	C4-N1-C3	3.45	100.11	108.97	2	4
5	A	435	C3S	C15-C18-C30	3.45	105.91	110.91	12	11
4	A	320	PX4	C26-C25-C24	3.44	100.81	113.19	5	3
4	A	323	PX4	O1-P1-O2	3.44	129.27	112.24	14	12
4	A	350	PX4	O7-C7-C8	3.44	120.87	108.40	14	7
4	A	315	PX4	O7-C7-C8	3.44	120.86	108.40	4	6
4	A	333	PX4	C5-N1-C4	3.44	117.82	108.97	5	6
4	A	335	PX4	O4-P1-O2	3.44	122.52	109.07	20	5
4	A	411	PX4	O7-C7-C6	3.44	120.87	108.40	17	10
4	A	318	PX4	C1-C2-N1	3.44	127.27	115.78	2	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	375	PX4	C5-N1-C3	3.44	100.13	108.97	19	7
4	A	409	PX4	P1-O4-C6	3.44	101.52	121.68	12	12
4	A	312	PX4	O1-P1-O2	3.44	129.23	112.24	8	8
4	A	359	PX4	O7-C7-C6	3.44	120.85	108.40	19	13
4	A	362	PX4	O7-C7-C6	3.44	120.84	108.40	4	6
4	A	311	PX4	O3-P1-O2	3.44	95.64	109.07	15	6
4	A	331	PX4	O7-C7-C8	3.43	120.84	108.40	6	8
4	A	370	PX4	O3-P1-O2	3.44	95.65	109.07	16	5
4	A	356	PX4	C25-C24-C23	3.43	101.13	113.62	6	5
4	A	388	PX4	O1-P1-O2	3.43	129.21	112.24	5	12
4	A	308	PX4	O7-C7-C6	3.43	120.82	108.40	4	7
4	A	347	PX4	C28-C27-C26	3.43	97.01	114.42	14	2
4	A	385	PX4	C1-C2-N1	3.43	127.24	115.78	9	6
4	A	419	PX4	O7-C7-C8	3.43	120.83	108.40	6	8
4	A	367	PX4	O1-P1-O2	3.43	129.20	112.24	7	9
4	A	323	PX4	C1-C2-N1	3.43	127.23	115.78	9	3
4	A	364	PX4	O7-C7-C8	3.43	120.82	108.40	18	9
4	A	407	PX4	O5-C9-C10	3.43	122.67	111.91	16	5
4	A	408	PX4	P1-O4-C6	3.43	101.56	121.68	15	13
4	A	311	PX4	C15-C14-C13	3.43	97.02	114.42	19	1
4	A	346	PX4	C5-N1-C4	3.43	100.16	108.97	17	4
4	A	349	PX4	C5-N1-C3	3.43	117.79	108.97	20	3
4	A	410	PX4	C7-O7-C23	3.43	109.35	117.79	19	4
4	A	367	PX4	O6-C9-C10	3.43	110.36	123.73	5	1
4	A	391	PX4	O5-C9-C10	3.43	122.66	111.91	15	5
4	A	307	PX4	C26-C25-C24	3.43	100.88	113.19	15	5
4	A	330	PX4	C4-N1-C3	3.42	100.17	108.97	6	4
4	A	360	PX4	C26-C25-C24	3.42	100.88	113.19	9	6
4	A	319	PX4	C3-N1-C2	3.42	123.92	109.92	18	1
4	A	357	PX4	C4-N1-C3	3.42	117.78	108.97	8	6
4	A	383	PX4	C7-O7-C23	3.42	126.22	117.79	13	3
4	A	391	PX4	O7-C7-C8	3.42	120.80	108.40	13	5
4	A	402	PX4	C5-N1-C2	3.42	123.93	109.92	19	2
4	A	408	PX4	C1-C2-N1	3.42	127.21	115.78	2	6
4	A	424	PX4	O5-C9-O6	3.42	114.95	123.59	7	4
4	A	368	PX4	O7-C23-O8	3.42	115.43	123.70	16	2
4	A	429	PX4	O5-C9-O6	3.42	114.95	123.59	2	7
4	A	365	PX4	O7-C7-C8	3.42	120.78	108.40	8	8
4	A	384	PX4	C15-C14-C13	3.42	97.06	114.42	11	5
4	A	385	PX4	O3-P1-O2	3.42	95.70	109.07	2	5
4	A	331	PX4	C5-N1-C4	3.42	100.18	108.97	13	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	426	PX4	O1-P1-O2	3.42	129.14	112.24	14	8
4	A	321	PX4	O1-P1-O2	3.42	129.14	112.24	10	11
4	A	386	PX4	C1-C2-N1	3.42	127.19	115.78	7	5
5	A	435	C3S	C26-C29-C38	3.42	111.45	116.57	19	2
4	A	362	PX4	C11-C10-C9	3.42	101.20	113.62	10	1
4	A	385	PX4	O4-P1-O2	3.42	122.42	109.07	3	2
4	A	388	PX4	O5-C9-C10	3.42	122.63	111.91	9	5
4	A	321	PX4	O7-C7-C8	3.41	120.77	108.40	17	5
4	A	321	PX4	C11-C10-C9	3.41	101.20	113.62	8	1
4	A	333	PX4	C12-C11-C10	3.41	100.92	113.19	14	4
4	A	397	PX4	P1-O4-C6	3.41	101.67	121.68	13	13
4	A	400	PX4	C5-N1-C4	3.41	100.20	108.97	18	7
4	A	332	PX4	O1-P1-O3	3.41	91.90	107.75	8	2
4	A	402	PX4	C5-N1-C3	3.41	100.20	108.97	14	6
5	A	434	C3S	C26-C23-C20	3.41	119.03	113.11	13	6
4	A	320	PX4	C14-C13-C12	3.41	97.11	114.42	3	2
4	A	380	PX4	C4-N1-C2	3.41	95.96	109.92	13	2
4	A	364	PX4	C7-O7-C23	3.41	109.40	117.79	16	7
4	A	370	PX4	C5-N1-C3	3.41	100.21	108.97	20	6
4	A	374	PX4	C4-N1-C2	3.41	123.86	109.92	15	1
4	A	429	PX4	C30-C29-C28	3.41	97.12	114.42	16	2
4	A	392	PX4	O5-C9-C10	3.41	122.60	111.91	17	5
4	A	415	PX4	O7-C7-C8	3.41	120.74	108.40	20	10
4	A	427	PX4	C3-N1-C2	3.41	123.86	109.92	3	2
4	A	335	PX4	C1-C2-N1	3.41	127.16	115.78	11	7
4	A	346	PX4	O7-C7-C6	3.41	120.74	108.40	9	5
4	A	406	PX4	C5-N1-C4	3.41	100.22	108.97	3	2
4	A	330	PX4	O1-P1-O2	3.40	129.07	112.24	17	9
4	A	345	PX4	O1-P1-O2	3.40	129.07	112.24	14	10
4	A	425	PX4	C1-C2-N1	3.40	127.15	115.78	7	5
4	A	427	PX4	O3-C1-C2	3.41	127.07	109.16	19	3
4	A	346	PX4	O7-C23-O8	3.40	115.48	123.70	3	5
4	A	309	PX4	O4-P1-O2	3.40	122.36	109.07	20	2
4	A	370	PX4	O7-C23-C24	3.40	118.83	111.50	2	7
4	A	412	PX4	O1-P1-O2	3.40	129.06	112.24	14	7
4	A	314	PX4	C12-C11-C10	3.40	100.97	113.19	19	2
4	A	349	PX4	O7-C7-C6	3.40	120.72	108.40	6	9
4	A	306	PX4	O1-P1-O2	3.40	129.04	112.24	2	6
4	A	358	PX4	O4-P1-O2	3.40	95.79	109.07	8	3
4	A	307	PX4	O7-C7-C6	3.40	120.70	108.40	8	7
4	A	395	PX4	O1-P1-O4	3.40	123.52	107.75	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	305	PX4	P1-O4-C6	3.40	101.77	121.68	20	17
4	A	320	PX4	O1-P1-O4	3.40	123.52	107.75	3	4
4	A	409	PX4	C4-N1-C3	3.40	100.24	108.97	11	7
4	A	346	PX4	C4-N1-C3	3.39	117.70	108.97	17	7
4	A	414	PX4	C16-C15-C14	3.40	97.19	114.42	1	2
4	A	422	PX4	P1-O4-C6	3.40	101.77	121.68	7	9
4	A	309	PX4	O1-P1-O2	3.39	129.01	112.24	13	12
4	A	311	PX4	C1-C2-N1	3.39	127.11	115.78	17	6
4	A	378	PX4	C11-C10-C9	3.39	125.96	113.62	19	5
4	A	382	PX4	C29-C28-C27	3.39	97.20	114.42	8	1
4	A	395	PX4	C19-C18-C17	3.39	97.20	114.42	14	1
4	A	335	PX4	O7-C7-C6	3.39	120.68	108.40	4	9
4	A	397	PX4	O5-C9-C10	3.39	122.55	111.91	4	6
4	A	363	PX4	C25-C24-C23	3.39	101.29	113.62	9	3
4	A	422	PX4	C5-N1-C4	3.39	117.69	108.97	4	4
4	A	326	PX4	C5-N1-C4	3.39	117.69	108.97	10	9
4	A	386	PX4	C14-C13-C12	3.39	97.23	114.42	5	1
4	A	388	PX4	C28-C27-C26	3.39	97.23	114.42	15	2
4	A	395	PX4	O5-C9-O6	3.39	115.04	123.59	19	4
4	A	396	PX4	O5-C9-C10	3.39	122.54	111.91	1	5
4	A	318	PX4	O5-C9-O6	3.39	115.05	123.59	10	6
4	A	414	PX4	O7-C7-C6	3.39	120.67	108.40	6	9
4	A	341	PX4	C27-C26-C25	3.39	97.24	114.42	1	2
4	A	349	PX4	C26-C25-C24	3.39	101.02	113.19	17	2
4	A	351	PX4	O5-C9-O6	3.39	115.05	123.59	4	4
4	A	366	PX4	C1-C2-N1	3.39	127.08	115.78	4	4
4	A	373	PX4	O5-C9-O6	3.39	115.05	123.59	9	4
4	A	411	PX4	C7-O7-C23	3.39	126.13	117.79	1	4
4	A	374	PX4	O4-P1-O2	3.38	122.29	109.07	20	4
4	A	392	PX4	C5-N1-C3	3.38	117.68	108.97	4	4
4	A	417	PX4	O3-P1-O2	3.39	95.84	109.07	19	6
4	A	317	PX4	C27-C26-C25	3.38	97.26	114.42	8	2
4	A	358	PX4	O1-P1-O4	3.38	123.45	107.75	18	3
4	A	360	PX4	C5-N1-C3	3.38	100.28	108.97	11	5
4	A	320	PX4	C15-C14-C13	3.38	97.26	114.42	10	2
4	A	394	PX4	O7-C7-C6	3.38	120.64	108.40	16	6
4	A	403	PX4	O7-C23-O8	3.38	115.53	123.70	18	4
4	A	376	PX4	O7-C7-C6	3.38	120.64	108.40	10	11
4	A	419	PX4	P1-O3-C1	3.38	104.94	121.59	8	14
4	A	324	PX4	C4-N1-C3	3.38	100.28	108.97	17	4
4	A	333	PX4	C25-C24-C23	3.38	101.33	113.62	16	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	393	PX4	C5-N1-C2	3.38	96.09	109.92	8	3
4	A	427	PX4	O3-P1-O2	3.38	95.86	109.07	2	6
4	A	380	PX4	O7-C23-O8	3.38	115.54	123.70	17	7
4	A	383	PX4	O5-C9-C10	3.38	122.51	111.91	8	7
4	A	394	PX4	C25-C24-C23	3.38	125.90	113.62	16	2
4	A	403	PX4	C1-C2-N1	3.38	127.06	115.78	14	5
4	A	314	PX4	O5-C9-C10	3.38	122.50	111.91	4	6
4	A	340	PX4	O3-P1-O2	3.38	95.88	109.07	9	3
4	A	360	PX4	O1-P1-O2	3.38	128.93	112.24	18	12
4	A	370	PX4	O5-C9-O6	3.37	115.08	123.59	6	6
4	A	380	PX4	O5-C9-C10	3.37	122.50	111.91	4	2
5	A	434	C3S	C35-C32-C30	3.37	98.44	105.13	12	8
4	A	390	PX4	O3-P1-O2	3.37	95.89	109.07	3	6
4	A	406	PX4	O1-P1-O2	3.37	128.91	112.24	15	14
4	A	426	PX4	C5-N1-C4	3.37	100.31	108.97	12	6
4	A	317	PX4	C7-O7-C23	3.37	126.09	117.79	6	8
4	A	360	PX4	O1-P1-O3	3.37	92.09	107.75	12	1
4	A	324	PX4	C26-C25-C24	3.37	101.08	113.19	5	3
4	A	332	PX4	O7-C7-C6	3.37	120.59	108.40	1	3
4	A	356	PX4	O7-C7-C6	3.37	120.59	108.40	16	10
4	A	389	PX4	C20-C19-C18	3.37	97.33	114.42	11	2
4	A	343	PX4	O7-C23-O8	3.37	115.57	123.70	20	9
4	A	355	PX4	O1-P1-O2	3.37	128.88	112.24	1	8
4	A	326	PX4	C12-C11-C10	3.36	101.10	113.19	11	3
4	A	315	PX4	C7-O7-C23	3.36	126.07	117.79	5	7
4	A	402	PX4	C8-O5-C9	3.36	104.67	117.12	5	3
4	A	335	PX4	C12-C11-C10	3.36	101.11	113.19	9	7
4	A	342	PX4	O7-C7-C6	3.36	120.56	108.40	9	10
4	A	402	PX4	C26-C25-C24	3.36	101.12	113.19	5	5
4	A	312	PX4	O5-C9-C10	3.36	122.44	111.91	10	3
4	A	319	PX4	O1-P1-O2	3.36	128.83	112.24	9	8
4	A	389	PX4	O7-C23-O8	3.36	115.59	123.70	2	2
5	A	436	C3S	C4-C1-C22	3.36	120.01	112.74	16	10
4	A	312	PX4	O3-P1-O2	3.35	95.96	109.07	12	5
4	A	316	PX4	O1-P1-O2	3.35	128.82	112.24	16	8
4	A	345	PX4	O7-C23-O8	3.35	115.60	123.70	1	7
5	A	433	C3S	C35-C38-C48	3.35	117.34	112.15	19	9
4	A	394	PX4	P1-O4-C6	3.35	102.02	121.68	10	12
4	A	413	PX4	P1-O4-C6	3.35	102.02	121.68	6	12
4	A	421	PX4	O4-P1-O2	3.35	122.16	109.07	18	5
4	A	346	PX4	C17-C16-C15	3.35	97.42	114.42	4	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	417	PX4	O1-P1-O2	3.35	128.80	112.24	13	9
4	A	305	PX4	O5-C9-O6	3.35	115.15	123.59	8	8
4	A	380	PX4	C4-N1-C3	3.35	100.37	108.97	15	5
4	A	389	PX4	C27-C26-C25	3.35	97.44	114.42	5	1
4	A	398	PX4	O5-C9-C10	3.35	122.41	111.91	12	7
4	A	405	PX4	P1-O4-C6	3.35	102.06	121.68	19	12
4	A	375	PX4	O3-P1-O2	3.34	96.00	109.07	5	6
4	A	390	PX4	C4-N1-C3	3.34	100.38	108.97	6	4
4	A	399	PX4	C4-N1-C3	3.34	117.57	108.97	12	7
5	A	431	C3S	C7-C9-C12	3.35	116.72	111.52	2	8
4	A	323	PX4	O4-P1-O2	3.34	122.13	109.07	12	5
4	A	396	PX4	C1-C2-N1	3.34	126.94	115.78	2	4
4	A	402	PX4	O1-P1-O3	3.34	92.21	107.75	12	3
4	A	410	PX4	C12-C11-C10	3.34	101.17	113.19	11	2
4	A	427	PX4	O1-P1-O4	3.34	123.27	107.75	11	4
4	A	338	PX4	O3-P1-O2	3.34	96.01	109.07	7	5
4	A	425	PX4	C5-N1-C3	3.34	117.57	108.97	20	4
4	A	430	PX4	C5-N1-C4	3.34	100.38	108.97	7	4
4	A	367	PX4	O5-C9-C10	3.34	122.39	111.91	5	5
4	A	368	PX4	O5-C9-C10	3.34	122.39	111.91	1	6
4	A	376	PX4	O7-C7-C8	3.34	120.50	108.40	11	5
4	A	389	PX4	C11-C10-C9	3.34	101.47	113.62	15	1
4	A	414	PX4	C1-C2-N1	3.34	126.94	115.78	12	2
4	A	354	PX4	O1-P1-O2	3.34	128.74	112.24	6	9
4	A	363	PX4	O3-P1-O2	3.34	96.03	109.07	20	6
4	A	364	PX4	O7-C7-C6	3.34	120.49	108.40	20	10
4	A	372	PX4	O3-P1-O2	3.34	96.03	109.07	10	9
4	A	341	PX4	O5-C9-C10	3.34	122.38	111.91	13	4
4	A	320	PX4	C5-N1-C4	3.33	117.55	108.97	4	2
4	A	418	PX4	C5-N1-C4	3.33	117.55	108.97	16	4
4	A	338	PX4	C5-N1-C3	3.33	117.54	108.97	6	5
4	A	348	PX4	C11-C10-C9	3.33	101.50	113.62	6	3
4	A	353	PX4	C5-N1-C4	3.33	100.40	108.97	20	5
4	A	387	PX4	C11-C10-C9	3.33	101.51	113.62	13	2
4	A	380	PX4	C5-N1-C3	3.33	117.53	108.97	13	5
4	A	391	PX4	C18-C17-C16	3.33	97.52	114.42	16	3
4	A	416	PX4	O5-C9-C10	3.33	122.35	111.91	16	5
4	A	336	PX4	C5-N1-C3	3.33	100.42	108.97	5	3
4	A	378	PX4	O7-C7-C6	3.33	120.44	108.40	17	8
4	A	397	PX4	O7-C7-C6	3.33	120.45	108.40	2	9
4	A	401	PX4	O7-C7-C6	3.33	120.44	108.40	11	8

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	423	PX4	O1-P1-O2	3.33	128.69	112.24	1	9
4	A	354	PX4	C32-C31-C30	3.32	97.55	114.42	6	2
4	A	378	PX4	C1-C2-N1	3.32	126.88	115.78	4	4
4	A	414	PX4	C26-C25-C24	3.32	101.24	113.19	6	2
4	A	423	PX4	P1-O4-C6	3.32	102.18	121.68	1	12
4	A	320	PX4	O1-P1-O2	3.32	128.67	112.24	9	10
4	A	354	PX4	C12-C11-C10	3.32	101.25	113.19	5	3
4	A	341	PX4	P1-O4-C6	3.32	102.20	121.68	20	13
4	A	352	PX4	O1-P1-O2	3.32	128.66	112.24	6	8
4	A	407	PX4	O1-P1-O4	3.32	123.18	107.75	15	2
4	A	337	PX4	O7-C7-C6	3.32	120.42	108.40	14	8
4	A	338	PX4	C34-C33-C32	3.32	97.57	114.42	5	2
4	A	370	PX4	C12-C11-C10	3.32	101.25	113.19	19	5
4	A	310	PX4	O7-C7-C6	3.32	120.42	108.40	9	7
4	A	326	PX4	O5-C9-C10	3.32	122.32	111.91	14	7
4	A	334	PX4	O3-P1-O2	3.32	96.10	109.07	8	5
4	A	337	PX4	C5-N1-C3	3.32	100.44	108.97	11	5
4	A	378	PX4	O7-C7-C8	3.32	120.42	108.40	18	6
4	A	377	PX4	O7-C7-C8	3.32	120.41	108.40	2	10
4	A	384	PX4	O5-C9-C10	3.32	122.32	111.91	15	5
4	A	392	PX4	O1-P1-O3	3.32	92.34	107.75	15	5
4	A	327	PX4	P1-O4-C6	3.31	102.25	121.68	9	10
4	A	331	PX4	O1-P1-O2	3.32	128.63	112.24	1	10
4	A	335	PX4	C8-O5-C9	3.32	129.40	117.12	13	4
4	A	372	PX4	C4-N1-C3	3.31	100.45	108.97	17	4
4	A	318	PX4	O1-P1-O2	3.31	128.62	112.24	15	11
4	A	307	PX4	C4-N1-C3	3.31	100.46	108.97	11	4
4	A	323	PX4	O1-P1-O3	3.31	92.36	107.75	14	6
4	A	340	PX4	O5-C9-O6	3.31	115.23	123.59	19	5
4	A	351	PX4	O1-P1-O2	3.31	128.62	112.24	2	9
4	A	357	PX4	C1-C2-N1	3.31	126.84	115.78	2	4
4	A	359	PX4	O5-C9-C10	3.31	122.30	111.91	15	4
4	A	405	PX4	C12-C11-C10	3.31	101.29	113.19	5	3
4	A	326	PX4	O3-P1-O2	3.31	96.14	109.07	17	7
4	A	411	PX4	C1-C2-N1	3.31	126.83	115.78	12	6
4	A	419	PX4	C5-N1-C2	3.31	96.37	109.92	15	3
5	A	432	C3S	C4-C1-C22	3.31	119.91	112.74	6	9
4	A	356	PX4	C5-N1-C3	3.31	100.47	108.97	14	5
4	A	342	PX4	P1-O4-C6	3.31	102.29	121.68	18	12
4	A	354	PX4	O5-C9-C10	3.31	122.29	111.91	4	6
4	A	371	PX4	C5-N1-C4	3.31	117.48	108.97	1	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	380	PX4	O3-P1-O2	3.31	96.15	109.07	18	3
4	A	403	PX4	C5-N1-C3	3.31	100.47	108.97	3	6
4	A	404	PX4	C5-N1-C4	3.31	100.47	108.97	8	4
4	A	326	PX4	C18-C17-C16	3.30	97.66	114.42	20	1
4	A	382	PX4	O1-P1-O2	3.30	128.57	112.24	17	9
4	A	408	PX4	O7-C7-C6	3.30	120.36	108.40	14	8
4	A	391	PX4	O1-P1-O2	3.30	128.56	112.24	12	10
4	A	378	PX4	P1-O4-C6	3.30	102.32	121.68	8	14
4	A	381	PX4	C8-O5-C9	3.30	104.90	117.12	7	2
4	A	359	PX4	O7-C7-C8	3.30	120.35	108.40	3	9
4	A	364	PX4	O4-P1-O2	3.30	121.96	109.07	5	5
4	A	400	PX4	C1-C2-N1	3.30	126.80	115.78	15	2
4	A	399	PX4	O1-P1-O4	3.30	123.07	107.75	8	6
4	A	414	PX4	O1-P1-O2	3.30	128.55	112.24	15	10
4	A	419	PX4	C11-C10-C9	3.30	101.62	113.62	11	3
4	A	338	PX4	C32-C31-C30	3.30	97.69	114.42	1	1
4	A	341	PX4	O1-P1-O2	3.30	128.54	112.24	1	9
4	A	358	PX4	C5-N1-C4	3.30	117.45	108.97	10	4
4	A	416	PX4	O1-P1-O2	3.30	128.55	112.24	8	9
4	A	425	PX4	O1-P1-O2	3.30	128.54	112.24	4	6
4	A	305	PX4	O7-C23-O8	3.30	115.74	123.70	4	7
4	A	343	PX4	C1-C2-N1	3.30	126.78	115.78	4	4
4	A	374	PX4	O3-C1-C2	3.30	126.50	109.16	11	2
4	A	385	PX4	C30-C29-C28	3.30	97.69	114.42	15	1
4	A	390	PX4	C5-N1-C4	3.30	117.45	108.97	11	3
4	A	326	PX4	P1-O4-C6	3.29	102.36	121.68	5	11
4	A	411	PX4	C29-C28-C27	3.30	97.69	114.42	7	3
4	A	418	PX4	O3-P1-O2	3.29	96.20	109.07	14	4
4	A	426	PX4	O5-C9-C10	3.29	122.24	111.91	1	4
4	A	305	PX4	C34-C33-C32	3.29	97.73	114.42	13	1
4	A	312	PX4	C5-N1-C3	3.29	117.43	108.97	13	3
4	A	351	PX4	C20-C19-C18	3.29	97.73	114.42	2	1
4	A	359	PX4	O5-C9-O6	3.29	115.30	123.59	1	5
4	A	406	PX4	O7-C7-C6	3.29	120.31	108.40	1	6
4	A	383	PX4	C1-C2-N1	3.29	126.75	115.78	1	6
4	A	407	PX4	C8-O5-C9	3.29	104.95	117.12	15	2
4	A	317	PX4	C26-C25-C24	3.29	101.38	113.19	20	1
4	A	412	PX4	C12-C11-C10	3.29	101.38	113.19	1	2
4	A	328	PX4	P1-O4-C6	3.29	102.42	121.68	13	9
4	A	326	PX4	C1-C2-N1	3.28	126.74	115.78	13	4
4	A	334	PX4	C15-C14-C13	3.28	97.75	114.42	13	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	332	PX4	O7-C23-O8	3.28	115.78	123.70	7	4
4	A	377	PX4	O7-C7-C6	3.28	120.28	108.40	6	5
4	A	347	PX4	C5-N1-C4	3.28	100.55	108.97	19	4
4	A	354	PX4	C1-C2-N1	3.28	126.72	115.78	19	5
4	A	373	PX4	O7-C7-C6	3.28	120.27	108.40	14	9
4	A	420	PX4	O7-C7-C6	3.28	120.27	108.40	10	4
4	A	365	PX4	O4-P1-O2	3.27	121.86	109.07	7	3
4	A	389	PX4	O1-P1-O2	3.28	128.43	112.24	20	9
4	A	355	PX4	P1-O3-C1	3.27	105.48	121.59	17	14
4	A	370	PX4	C5-N1-C2	3.27	123.31	109.92	9	3
5	A	435	C3S	C32-C30-C18	3.27	124.47	119.08	11	4
4	A	363	PX4	C5-N1-C3	3.27	100.57	108.97	11	4
4	A	365	PX4	C18-C17-C16	3.27	97.83	114.42	20	2
4	A	401	PX4	P1-O4-C6	3.27	102.50	121.68	13	11
4	A	407	PX4	O7-C7-C8	3.27	120.24	108.40	6	9
5	A	433	C3S	C57-C54-C48	3.27	105.64	115.03	5	2
4	A	305	PX4	C33-C32-C31	3.27	97.85	114.42	14	2
4	A	322	PX4	P1-O4-C6	3.27	102.53	121.68	4	13
4	A	332	PX4	O1-P1-O2	3.27	128.38	112.24	7	9
4	A	401	PX4	C3-N1-C2	3.27	123.28	109.92	16	3
4	A	424	PX4	C1-C2-N1	3.27	126.69	115.78	11	4
4	A	351	PX4	C7-O7-C23	3.26	125.83	117.79	3	5
4	A	359	PX4	O4-P1-O2	3.27	96.31	109.07	14	3
4	A	373	PX4	C8-O5-C9	3.27	129.21	117.12	18	1
4	A	310	PX4	O1-P1-O2	3.26	128.38	112.24	17	9
4	A	375	PX4	C33-C32-C31	3.26	97.85	114.42	12	1
4	A	316	PX4	O7-C7-C6	3.26	120.22	108.40	5	6
4	A	330	PX4	C5-N1-C4	3.26	100.58	108.97	9	4
4	A	373	PX4	C1-C2-N1	3.26	126.67	115.78	17	3
4	A	383	PX4	C28-C27-C26	3.26	97.86	114.42	18	1
4	A	414	PX4	C4-N1-C3	3.26	117.37	108.97	11	3
4	A	423	PX4	O7-C7-C6	3.26	120.21	108.40	18	5
4	A	326	PX4	C5-N1-C2	3.26	123.25	109.92	7	1
4	A	392	PX4	C29-C28-C27	3.26	97.87	114.42	18	1
4	A	402	PX4	O1-P1-O2	3.26	128.36	112.24	19	9
4	A	368	PX4	C5-N1-C3	3.26	100.60	108.97	17	6
4	A	410	PX4	C5-N1-C4	3.26	117.35	108.97	13	2
4	A	418	PX4	O1-P1-O2	3.26	128.34	112.24	16	9
4	A	328	PX4	C8-O5-C9	3.26	105.06	117.12	1	2
4	A	394	PX4	O7-C7-C8	3.26	120.19	108.40	16	6
4	A	329	PX4	C5-N1-C3	3.25	100.61	108.97	19	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	310	PX4	C4-N1-C3	3.25	117.34	108.97	5	3
4	A	338	PX4	O1-P1-O2	3.25	128.33	112.24	9	10
4	A	352	PX4	C1-C2-N1	3.25	126.65	115.78	4	4
4	A	386	PX4	O7-C7-C6	3.26	120.19	108.40	9	3
4	A	411	PX4	C26-C25-C24	3.26	101.49	113.19	5	3
4	A	362	PX4	O1-P1-O2	3.25	128.32	112.24	6	7
4	A	367	PX4	O4-P1-O2	3.25	96.35	109.07	11	2
4	A	389	PX4	C18-C17-C16	3.25	97.91	114.42	4	2
4	A	396	PX4	O1-P1-O2	3.25	128.32	112.24	20	10
4	A	398	PX4	O1-P1-O2	3.25	128.31	112.24	11	12
4	A	361	PX4	O7-C7-C6	3.25	120.17	108.40	4	11
4	A	382	PX4	O7-C7-C6	3.25	120.17	108.40	15	7
4	A	324	PX4	O1-P1-O2	3.25	128.30	112.24	13	8
4	A	314	PX4	C5-N1-C4	3.25	100.63	108.97	2	7
4	A	416	PX4	C1-C2-N1	3.25	126.62	115.78	13	8
4	A	319	PX4	C26-C25-C24	3.25	101.52	113.19	18	5
4	A	323	PX4	O1-P1-O4	3.25	122.82	107.75	11	4
4	A	324	PX4	O7-C7-C6	3.24	120.15	108.40	8	7
4	A	359	PX4	C7-O7-C23	3.24	125.78	117.79	2	6
4	A	375	PX4	C8-O5-C9	3.25	129.14	117.12	12	2
4	A	334	PX4	O7-C7-C6	3.24	120.14	108.40	14	8
4	A	343	PX4	O1-P1-O2	3.24	128.28	112.24	4	14
4	A	384	PX4	C27-C26-C25	3.24	97.97	114.42	9	2
4	A	320	PX4	C7-O7-C23	3.24	125.77	117.79	16	4
4	A	305	PX4	O1-P1-O3	3.24	92.70	107.75	6	7
4	A	375	PX4	C26-C25-C24	3.24	101.55	113.19	12	5
4	A	399	PX4	O5-C9-C10	3.24	122.07	111.91	8	5
4	A	311	PX4	C5-N1-C4	3.24	100.65	108.97	13	4
4	A	349	PX4	C4-N1-C2	3.24	123.16	109.92	8	2
4	A	355	PX4	O4-P1-O2	3.24	121.71	109.07	3	2
4	A	335	PX4	O7-C7-C8	3.23	120.11	108.40	2	9
4	A	378	PX4	C12-C11-C10	3.23	101.56	113.19	16	5
4	A	410	PX4	O7-C23-O8	3.23	115.88	123.70	14	6
4	A	413	PX4	O7-C7-C8	3.24	120.11	108.40	7	11
4	A	371	PX4	C26-C25-C24	3.23	101.56	113.19	3	4
4	A	394	PX4	C5-N1-C3	3.23	100.66	108.97	13	4
4	A	417	PX4	C7-O7-C23	3.23	125.75	117.79	14	6
4	A	427	PX4	O7-C7-C8	3.23	120.11	108.40	10	10
5	A	435	C3S	C29-C30-C18	3.23	119.17	114.38	8	3
4	A	322	PX4	C18-C17-C16	3.23	98.01	114.42	19	4
4	A	340	PX4	O1-P1-O3	3.23	92.73	107.75	7	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	380	PX4	O5-C9-O6	3.23	115.44	123.59	2	4
4	A	320	PX4	C8-O5-C9	3.23	105.16	117.12	2	3
4	A	426	PX4	C12-C11-C10	3.23	101.58	113.19	4	6
4	A	426	PX4	C27-C26-C25	3.23	98.03	114.42	12	1
4	A	313	PX4	C25-C24-C23	3.23	125.36	113.62	4	4
4	A	317	PX4	C17-C16-C15	3.23	98.04	114.42	19	2
4	A	322	PX4	O7-C7-C6	3.23	120.09	108.40	6	6
4	A	353	PX4	O4-P1-O2	3.23	96.46	109.07	10	4
4	A	319	PX4	C8-O5-C9	3.23	105.18	117.12	5	3
4	A	321	PX4	O1-P1-O3	3.23	92.77	107.75	3	2
4	A	380	PX4	O1-P1-O3	3.23	92.76	107.75	3	3
4	A	398	PX4	O7-C23-C24	3.23	118.45	111.50	5	6
4	A	387	PX4	O1-P1-O2	3.22	128.18	112.24	9	9
4	A	398	PX4	C25-C24-C23	3.22	101.89	113.62	18	1
4	A	426	PX4	C19-C18-C17	3.22	98.06	114.42	1	3
4	A	360	PX4	P1-O3-C1	3.22	105.72	121.59	8	13
4	A	390	PX4	O7-C23-O8	3.22	115.91	123.70	11	3
4	A	428	PX4	O7-C7-C6	3.22	120.07	108.40	20	7
4	A	402	PX4	O7-C7-C8	3.22	120.07	108.40	4	9
4	A	384	PX4	C26-C25-C24	3.22	101.61	113.19	6	4
4	A	405	PX4	C1-C2-N1	3.22	126.53	115.78	18	7
4	A	309	PX4	O5-C9-O6	3.22	115.47	123.59	3	3
4	A	332	PX4	C18-C17-C16	3.21	98.11	114.42	1	3
4	A	321	PX4	O7-C23-O8	3.21	115.94	123.70	6	6
4	A	397	PX4	C4-N1-C3	3.21	117.23	108.97	18	3
4	A	338	PX4	C31-C30-C29	3.21	98.13	114.42	15	4
4	A	306	PX4	C1-C2-N1	3.21	126.49	115.78	16	5
4	A	340	PX4	O4-P1-O2	3.21	121.61	109.07	14	3
4	A	379	PX4	C14-C13-C12	3.21	98.14	114.42	15	2
4	A	420	PX4	C25-C24-C23	3.21	101.95	113.62	17	3
4	A	422	PX4	O5-C9-C10	3.21	121.98	111.91	6	5
4	A	329	PX4	C4-N1-C2	3.21	123.04	109.92	7	2
4	A	394	PX4	C13-C12-C11	3.21	98.14	114.42	2	3
4	A	314	PX4	C5-N1-C3	3.20	100.74	108.97	19	4
4	A	324	PX4	O5-C9-C10	3.20	121.96	111.91	14	5
4	A	430	PX4	O1-P1-O2	3.20	128.08	112.24	16	13
4	A	428	PX4	O1-P1-O2	3.20	128.08	112.24	6	11
4	A	358	PX4	C17-C16-C15	3.20	98.17	114.42	3	1
4	A	418	PX4	C4-N1-C3	3.20	100.74	108.97	8	5
4	A	349	PX4	C29-C28-C27	3.20	98.18	114.42	10	2
4	A	427	PX4	C13-C12-C11	3.20	98.17	114.42	10	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	429	PX4	C4-N1-C3	3.20	100.74	108.97	12	3
4	A	309	PX4	C26-C25-C24	3.20	101.69	113.19	1	2
4	A	327	PX4	C5-N1-C4	3.20	100.75	108.97	12	5
4	A	377	PX4	C5-N1-C2	3.20	96.83	109.92	7	5
4	A	411	PX4	C25-C24-C23	3.20	125.24	113.62	18	4
4	A	313	PX4	P1-O4-C6	3.19	102.95	121.68	1	12
4	A	321	PX4	C5-N1-C2	3.19	96.85	109.92	13	4
4	A	365	PX4	O8-C23-C24	3.19	111.27	123.73	14	3
4	A	367	PX4	O5-C9-O6	3.19	115.53	123.59	11	6
4	A	396	PX4	C16-C15-C14	3.19	98.21	114.42	18	3
4	A	397	PX4	O3-C1-C2	3.19	125.96	109.16	19	3
4	A	418	PX4	C25-C24-C23	3.19	102.01	113.62	10	5
4	A	386	PX4	O4-P1-O2	3.19	121.54	109.07	12	2
4	A	404	PX4	C12-C11-C10	3.19	124.66	113.19	9	7
4	A	407	PX4	O3-P1-O2	3.19	96.60	109.07	15	3
4	A	348	PX4	O3-C1-C2	3.19	125.94	109.16	7	2
4	A	350	PX4	C5-N1-C3	3.19	100.77	108.97	6	4
4	A	369	PX4	O7-C7-C6	3.19	119.95	108.40	18	9
5	A	433	C3S	C1-C22-C12	3.19	114.59	108.75	3	6
4	A	309	PX4	P1-O4-C6	3.19	102.99	121.68	3	10
4	A	352	PX4	O1-P1-O4	3.19	122.55	107.75	3	3
4	A	324	PX4	C29-C28-C27	3.19	98.25	114.42	7	3
4	A	347	PX4	C11-C10-C9	3.19	102.03	113.62	13	2
4	A	425	PX4	O1-P1-O4	3.19	122.55	107.75	8	1
4	A	429	PX4	C7-O7-C23	3.19	125.64	117.79	3	2
4	A	376	PX4	O1-P1-O2	3.19	127.99	112.24	19	10
4	A	385	PX4	C26-C25-C24	3.19	101.74	113.19	16	2
4	A	317	PX4	O4-P1-O2	3.18	96.63	109.07	13	4
4	A	394	PX4	C11-C10-C9	3.18	102.04	113.62	2	5
4	A	400	PX4	C12-C11-C10	3.19	101.74	113.19	13	4
4	A	343	PX4	C11-C10-C9	3.18	102.04	113.62	8	5
4	A	349	PX4	C5-N1-C4	3.18	100.79	108.97	8	3
4	A	325	PX4	C7-O7-C23	3.18	125.62	117.79	20	4
4	A	355	PX4	C12-C11-C10	3.18	101.75	113.19	8	2
4	A	420	PX4	C5-N1-C3	3.18	100.79	108.97	13	3
4	A	323	PX4	C26-C25-C24	3.18	101.76	113.19	12	2
4	A	358	PX4	O7-C7-C8	3.18	119.92	108.40	20	6
4	A	332	PX4	O8-C23-C24	3.18	111.33	123.73	17	2
4	A	357	PX4	O4-P1-O2	3.18	121.49	109.07	10	3
4	A	338	PX4	C4-N1-C3	3.18	100.80	108.97	6	2
4	A	392	PX4	O1-P1-O2	3.18	127.95	112.24	10	13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	369	PX4	C7-O7-C23	3.18	109.97	117.79	9	4
4	A	415	PX4	C20-C19-C18	3.18	98.30	114.42	18	1
4	A	395	PX4	C1-C2-N1	3.17	126.38	115.78	14	6
4	A	398	PX4	C7-O7-C23	3.17	125.61	117.79	12	8
4	A	315	PX4	O5-C9-C10	3.17	121.87	111.91	1	5
4	A	350	PX4	O7-C7-C6	3.17	119.89	108.40	7	8
4	A	401	PX4	O7-C7-C8	3.17	119.89	108.40	4	7
4	A	314	PX4	O7-C7-C6	3.17	119.88	108.40	4	7
4	A	368	PX4	O3-P1-O2	3.17	96.68	109.07	20	3
4	A	385	PX4	O7-C7-C6	3.17	119.89	108.40	9	8
4	A	312	PX4	O4-P1-O2	3.17	121.45	109.07	15	2
4	A	318	PX4	C7-O7-C23	3.17	125.59	117.79	18	8
4	A	334	PX4	C31-C30-C29	3.17	98.34	114.42	18	2
4	A	371	PX4	P1-O4-C6	3.17	103.09	121.68	4	12
4	A	338	PX4	C19-C18-C17	3.17	98.34	114.42	9	3
4	A	324	PX4	C32-C31-C30	3.17	98.34	114.42	11	1
4	A	308	PX4	C33-C32-C31	3.17	98.35	114.42	5	1
4	A	334	PX4	O7-C7-C8	3.17	119.87	108.40	4	10
4	A	344	PX4	C5-N1-C4	3.17	117.12	108.97	1	2
4	A	412	PX4	O5-C9-C10	3.17	121.85	111.91	12	6
4	A	413	PX4	C25-C24-C23	3.17	102.10	113.62	5	5
4	A	344	PX4	C1-C2-N1	3.16	126.35	115.78	2	8
4	A	394	PX4	C31-C30-C29	3.16	98.36	114.42	18	1
4	A	414	PX4	O1-P1-O3	3.16	93.05	107.75	1	3
4	A	307	PX4	C34-C33-C32	3.16	98.38	114.42	18	2
4	A	310	PX4	C30-C29-C28	3.16	98.37	114.42	5	1
4	A	404	PX4	C34-C33-C32	3.16	98.37	114.42	10	2
4	A	392	PX4	O5-C9-O6	3.16	115.61	123.59	16	5
4	A	394	PX4	O5-C9-C10	3.16	121.83	111.91	7	4
4	A	340	PX4	C20-C19-C18	3.16	98.38	114.42	8	1
4	A	404	PX4	O7-C23-O8	3.16	116.06	123.70	18	5
4	A	328	PX4	C12-C11-C10	3.16	101.83	113.19	11	4
4	A	360	PX4	O5-C9-C10	3.16	121.82	111.91	12	5
4	A	324	PX4	O7-C23-O8	3.16	116.07	123.70	17	2
4	A	345	PX4	O5-C9-O6	3.16	115.62	123.59	12	4
4	A	381	PX4	C27-C26-C25	3.16	98.39	114.42	17	1
4	A	400	PX4	C26-C25-C24	3.16	101.84	113.19	20	3
4	A	405	PX4	C25-C24-C23	3.16	102.13	113.62	14	3
4	A	363	PX4	O5-C9-O6	3.16	115.62	123.59	4	7
4	A	352	PX4	C15-C14-C13	3.16	98.40	114.42	18	2
4	A	352	PX4	C4-N1-C3	3.16	100.86	108.97	17	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	418	PX4	O7-C7-C6	3.16	119.83	108.40	19	5
4	A	311	PX4	C4-N1-C3	3.16	117.09	108.97	2	3
4	A	335	PX4	C31-C30-C29	3.15	98.41	114.42	13	1
4	A	373	PX4	O1-P1-O4	3.15	93.10	107.75	14	2
4	A	416	PX4	C31-C30-C29	3.15	98.41	114.42	11	3
4	A	312	PX4	O7-C7-C8	3.15	119.81	108.40	16	5
4	A	322	PX4	C25-C24-C23	3.15	102.16	113.62	10	3
4	A	324	PX4	C5-N1-C4	3.15	100.87	108.97	6	4
4	A	350	PX4	C29-C28-C27	3.15	98.42	114.42	20	1
4	A	359	PX4	C19-C18-C17	3.15	98.42	114.42	11	2
4	A	378	PX4	O7-C23-O8	3.15	116.08	123.70	17	6
4	A	381	PX4	O3-P1-O2	3.15	96.76	109.07	7	5
4	A	383	PX4	C5-N1-C3	3.15	100.87	108.97	14	6
4	A	397	PX4	C5-N1-C3	3.15	100.87	108.97	11	5
4	A	340	PX4	C5-N1-C3	3.15	100.88	108.97	3	4
4	A	343	PX4	O3-P1-O2	3.15	96.76	109.07	10	5
4	A	405	PX4	O4-P1-O2	3.15	121.38	109.07	6	3
4	A	344	PX4	O7-C23-O8	3.15	116.09	123.70	6	5
4	A	377	PX4	C5-N1-C3	3.15	117.07	108.97	17	6
4	A	310	PX4	O3-P1-O2	3.15	96.77	109.07	11	3
4	A	375	PX4	C5-N1-C4	3.15	117.07	108.97	14	5
4	A	322	PX4	C12-C11-C10	3.15	101.88	113.19	16	3
4	A	404	PX4	O3-P1-O2	3.15	96.77	109.07	15	5
4	A	313	PX4	O1-P1-O2	3.14	127.78	112.24	19	10
4	A	420	PX4	O5-C9-O6	3.15	115.65	123.59	18	4
4	A	366	PX4	O7-C7-C6	3.14	119.78	108.40	14	8
4	A	366	PX4	C4-N1-C3	3.14	100.89	108.97	5	5
4	A	318	PX4	C31-C30-C29	3.14	98.48	114.42	9	1
4	A	346	PX4	O1-P1-O2	3.14	127.77	112.24	9	10
4	A	386	PX4	C5-N1-C2	3.14	97.06	109.92	9	2
4	A	380	PX4	C11-C10-C9	3.14	102.20	113.62	18	3
4	A	388	PX4	O7-C7-C6	3.14	119.77	108.40	12	8
4	A	349	PX4	O1-P1-O4	3.14	122.32	107.75	3	4
4	A	361	PX4	O3-P1-O2	3.14	121.33	109.07	6	2
4	A	368	PX4	C32-C31-C30	3.14	98.49	114.42	14	2
4	A	391	PX4	C1-C2-N1	3.14	126.26	115.78	10	5
4	A	306	PX4	C11-C10-C9	3.14	102.21	113.62	10	5
4	A	361	PX4	C5-N1-C3	3.14	100.91	108.97	8	3
4	A	398	PX4	C5-N1-C3	3.14	100.91	108.97	15	6
4	A	419	PX4	O5-C9-C10	3.14	121.75	111.91	10	5
4	A	373	PX4	C20-C19-C18	3.13	98.51	114.42	17	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	374	PX4	C25-C24-C23	3.13	102.22	113.62	12	2
4	A	401	PX4	O1-P1-O4	3.13	122.30	107.75	17	5
4	A	325	PX4	O4-P1-O2	3.13	121.30	109.07	8	2
4	A	333	PX4	O5-C9-O6	3.13	115.69	123.59	20	5
4	A	357	PX4	C26-C25-C24	3.13	101.93	113.19	9	4
4	A	346	PX4	C19-C18-C17	3.13	98.53	114.42	2	2
4	A	384	PX4	P1-O4-C6	3.13	103.33	121.68	8	10
4	A	317	PX4	C1-C2-N1	3.13	126.22	115.78	2	4
4	A	350	PX4	O4-P1-O2	3.13	121.29	109.07	13	5
4	A	398	PX4	C1-C2-N1	3.13	126.23	115.78	13	5
4	A	402	PX4	C30-C29-C28	3.13	98.54	114.42	6	2
4	A	364	PX4	C32-C31-C30	3.13	98.54	114.42	1	3
4	A	321	PX4	C5-N1-C3	3.13	100.93	108.97	10	3
4	A	354	PX4	O1-P1-O3	3.13	93.23	107.75	7	2
4	A	364	PX4	O3-P1-O2	3.13	96.85	109.07	7	3
4	A	314	PX4	O1-P1-O2	3.13	127.69	112.24	4	14
4	A	396	PX4	O7-C7-C6	3.12	119.71	108.40	13	8
4	A	407	PX4	C34-C33-C32	3.12	98.56	114.42	3	2
5	A	434	C3S	C23-C26-C29	3.12	118.14	112.78	1	6
4	A	425	PX4	C11-C10-C9	3.12	102.26	113.62	3	4
4	A	311	PX4	O4-P1-O2	3.12	121.26	109.07	5	4
4	A	374	PX4	O7-C7-C6	3.12	119.70	108.40	13	9
4	A	376	PX4	C1-C2-N1	3.12	126.20	115.78	17	5
4	A	307	PX4	O5-C9-O6	3.12	115.72	123.59	7	6
4	A	350	PX4	C28-C27-C26	3.12	98.60	114.42	15	3
4	A	369	PX4	O5-C9-C10	3.12	121.69	111.91	2	5
4	A	392	PX4	C5-N1-C4	3.12	116.99	108.97	11	5
4	A	424	PX4	C4-N1-C3	3.12	100.95	108.97	9	3
4	A	305	PX4	O7-C7-C6	3.12	119.69	108.40	19	6
4	A	311	PX4	O1-P1-O4	3.12	122.22	107.75	11	1
4	A	402	PX4	P1-O4-C6	3.12	103.40	121.68	17	15
4	A	328	PX4	C31-C30-C29	3.11	98.62	114.42	4	5
4	A	351	PX4	C26-C25-C24	3.11	101.99	113.19	2	2
4	A	337	PX4	C5-N1-C4	3.11	100.97	108.97	19	4
4	A	353	PX4	C25-C24-C23	3.11	102.30	113.62	15	4
4	A	355	PX4	O1-P1-O4	3.11	122.21	107.75	6	4
4	A	363	PX4	C32-C31-C30	3.11	98.62	114.42	8	4
4	A	372	PX4	C1-C2-N1	3.11	126.18	115.78	16	5
4	A	415	PX4	C12-C11-C10	3.11	102.00	113.19	2	7
4	A	418	PX4	C26-C25-C24	3.11	124.38	113.19	13	5
4	A	422	PX4	C33-C32-C31	3.11	98.63	114.42	15	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	428	PX4	O1-P1-O3	3.11	122.20	107.75	13	1
4	A	328	PX4	O1-P1-O4	3.11	122.19	107.75	9	6
4	A	376	PX4	P1-O4-C6	3.11	103.45	121.68	14	14
4	A	379	PX4	O4-P1-O2	3.11	121.22	109.07	8	2
4	A	420	PX4	P1-O4-C6	3.11	103.45	121.68	9	15
4	A	428	PX4	C1-C2-N1	3.11	126.16	115.78	16	5
4	A	306	PX4	C5-N1-C4	3.11	100.98	108.97	18	3
4	A	328	PX4	O7-C23-O8	3.11	116.19	123.70	6	6
4	A	397	PX4	C11-C10-C9	3.11	102.32	113.62	13	1
4	A	410	PX4	O1-P1-O2	3.11	127.61	112.24	4	5
5	A	432	C3S	C40-C29-C38	3.11	117.51	111.71	13	4
5	A	435	C3S	C15-C13-C12	3.11	119.33	125.06	15	6
4	A	309	PX4	C4-N1-C2	3.11	97.21	109.92	19	3
4	A	365	PX4	C5-N1-C2	3.11	97.21	109.92	11	3
4	A	381	PX4	C26-C25-C24	3.10	102.03	113.19	16	5
4	A	370	PX4	O7-C7-C6	3.10	119.64	108.40	4	6
4	A	428	PX4	O7-C7-C8	3.10	119.64	108.40	3	6
4	A	321	PX4	C4-N1-C3	3.10	101.00	108.97	14	2
5	A	433	C3S	C26-C23-C20	3.10	118.49	113.11	5	7
4	A	359	PX4	C1-C2-N1	3.10	126.13	115.78	1	2
4	A	374	PX4	O1-P1-O3	3.10	93.34	107.75	20	4
4	A	396	PX4	C4-N1-C3	3.10	101.00	108.97	2	3
4	A	384	PX4	O3-P1-O2	3.10	96.95	109.07	15	6
4	A	347	PX4	C31-C30-C29	3.10	98.70	114.42	17	1
4	A	357	PX4	C5-N1-C2	3.10	97.24	109.92	15	3
4	A	359	PX4	C26-C25-C24	3.10	124.33	113.19	10	4
4	A	386	PX4	C11-C10-C9	3.10	102.35	113.62	15	3
4	A	320	PX4	C1-C2-N1	3.10	126.12	115.78	19	1
4	A	391	PX4	P1-O4-C6	3.10	103.52	121.68	7	12
4	A	329	PX4	O7-C7-C6	3.10	119.61	108.40	4	5
4	A	365	PX4	O1-P1-O2	3.10	127.55	112.24	16	8
4	A	373	PX4	C26-C25-C24	3.10	102.06	113.19	8	2
4	A	424	PX4	O5-C9-C10	3.10	121.62	111.91	7	4
4	A	430	PX4	O7-C7-C6	3.10	119.61	108.40	17	5
4	A	424	PX4	C27-C26-C25	3.09	98.71	114.42	13	1
4	A	425	PX4	C30-C29-C28	3.09	98.72	114.42	19	2
4	A	310	PX4	C34-C33-C32	3.09	98.73	114.42	5	4
4	A	406	PX4	C11-C10-C9	3.09	102.38	113.62	13	3
4	A	415	PX4	O1-P1-O4	3.09	122.10	107.75	4	2
4	A	334	PX4	P1-O4-C6	3.09	103.57	121.68	17	10
4	A	360	PX4	O7-C23-O8	3.09	116.24	123.70	17	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	375	PX4	C12-C11-C10	3.09	102.09	113.19	12	3
4	A	351	PX4	O3-P1-O2	3.09	121.13	109.07	6	3
4	A	335	PX4	C5-N1-C2	3.09	122.54	109.92	5	2
4	A	341	PX4	C4-N1-C2	3.09	122.54	109.92	13	3
4	A	359	PX4	C12-C11-C10	3.09	124.28	113.19	16	6
4	A	387	PX4	O7-C23-O8	3.09	116.24	123.70	19	4
4	A	374	PX4	C5-N1-C4	3.08	101.05	108.97	19	4
4	A	384	PX4	C5-N1-C4	3.08	101.05	108.97	6	8
4	A	393	PX4	C20-C19-C18	3.08	98.77	114.42	10	3
4	A	395	PX4	C26-C25-C24	3.08	102.11	113.19	8	4
4	A	322	PX4	O1-P1-O3	3.08	93.43	107.75	20	3
4	A	357	PX4	O1-P1-O3	3.08	122.06	107.75	1	2
4	A	359	PX4	O1-P1-O3	3.08	93.43	107.75	5	3
4	A	417	PX4	C5-N1-C4	3.08	101.05	108.97	2	5
4	A	305	PX4	C4-N1-C3	3.08	116.89	108.97	8	5
4	A	330	PX4	O5-C9-O6	3.08	115.82	123.59	14	8
4	A	377	PX4	O5-C9-C10	3.08	121.58	111.91	16	6
4	A	382	PX4	O7-C7-C8	3.08	119.56	108.40	19	6
4	A	391	PX4	O1-P1-O3	3.08	93.44	107.75	12	1
4	A	384	PX4	C11-C10-C9	3.08	102.43	113.62	6	3
4	A	429	PX4	C26-C25-C24	3.08	102.13	113.19	4	3
4	A	429	PX4	C11-C10-C9	3.08	102.43	113.62	12	4
4	A	417	PX4	O6-C9-C10	3.08	111.73	123.73	19	3
4	A	330	PX4	C16-C15-C14	3.07	98.81	114.42	3	3
4	A	391	PX4	C26-C25-C24	3.07	102.14	113.19	18	5
4	A	428	PX4	C26-C25-C24	3.07	102.14	113.19	15	3
4	A	307	PX4	C29-C28-C27	3.07	98.84	114.42	19	2
4	A	316	PX4	O3-P1-O2	3.07	97.07	109.07	14	6
4	A	325	PX4	C5-N1-C2	3.07	97.35	109.92	13	2
4	A	393	PX4	C1-C2-N1	3.07	126.03	115.78	9	4
4	A	326	PX4	C4-N1-C3	3.07	101.08	108.97	7	4
4	A	344	PX4	C5-N1-C3	3.07	101.08	108.97	7	2
4	A	397	PX4	O1-P1-O2	3.07	127.41	112.24	18	12
4	A	419	PX4	C5-N1-C3	3.07	116.86	108.97	17	4
4	A	309	PX4	C14-C13-C12	3.07	98.85	114.42	18	3
4	A	341	PX4	O5-C9-O6	3.07	115.85	123.59	10	6
4	A	355	PX4	C30-C29-C28	3.07	98.85	114.42	20	2
4	A	376	PX4	O5-C9-O6	3.07	115.85	123.59	14	3
4	A	385	PX4	C12-C11-C10	3.07	102.16	113.19	10	4
4	A	420	PX4	C5-N1-C4	3.07	101.09	108.97	3	5
4	A	388	PX4	C3-N1-C2	3.07	97.37	109.92	12	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	423	PX4	C8-O5-C9	3.07	105.76	117.12	12	5
4	A	306	PX4	C18-C17-C16	3.07	98.86	114.42	9	3
4	A	318	PX4	C25-C24-C23	3.06	102.47	113.62	5	1
4	A	333	PX4	C14-C13-C12	3.07	98.86	114.42	17	2
4	A	336	PX4	C12-C11-C10	3.07	102.17	113.19	6	2
4	A	355	PX4	C4-N1-C3	3.07	101.09	108.97	19	6
4	A	310	PX4	C26-C25-C24	3.06	102.18	113.19	7	6
4	A	395	PX4	C8-O5-C9	3.06	105.78	117.12	5	2
4	A	335	PX4	O5-C9-C10	3.06	121.52	111.91	17	6
4	A	394	PX4	C33-C32-C31	3.06	98.88	114.42	16	1
4	A	396	PX4	C26-C25-C24	3.06	102.18	113.19	9	3
4	A	406	PX4	C5-N1-C3	3.06	116.85	108.97	15	3
4	A	363	PX4	C20-C19-C18	3.06	98.88	114.42	2	1
4	A	344	PX4	O3-P1-O2	3.06	97.11	109.07	11	6
4	A	351	PX4	O5-C9-C10	3.06	121.52	111.91	18	6
4	A	363	PX4	O1-P1-O2	3.06	127.38	112.24	7	9
4	A	373	PX4	C19-C18-C17	3.06	98.89	114.42	17	1
4	A	379	PX4	C32-C31-C30	3.06	98.89	114.42	1	1
4	A	390	PX4	O7-C7-C6	3.06	119.48	108.40	8	7
4	A	424	PX4	O7-C23-O8	3.06	116.30	123.70	15	5
4	A	312	PX4	C26-C25-C24	3.06	102.19	113.19	4	3
4	A	330	PX4	C26-C25-C24	3.06	102.19	113.19	19	2
4	A	371	PX4	O1-P1-O2	3.06	127.36	112.24	14	7
4	A	381	PX4	O5-C9-O6	3.06	115.87	123.59	20	6
4	A	403	PX4	O3-P1-O2	3.06	97.11	109.07	3	2
4	A	344	PX4	O5-C9-O6	3.06	115.87	123.59	18	10
4	A	349	PX4	C4-N1-C3	3.06	101.11	108.97	9	6
4	A	342	PX4	O7-C23-O8	3.06	116.32	123.70	18	5
4	A	363	PX4	C8-O5-C9	3.06	105.80	117.12	19	2
4	A	412	PX4	O7-C7-C8	3.06	119.47	108.40	8	6
4	A	349	PX4	C31-C30-C29	3.06	98.92	114.42	19	3
4	A	352	PX4	C12-C11-C10	3.05	102.21	113.19	9	5
4	A	364	PX4	C1-C2-N1	3.05	125.97	115.78	11	4
4	A	387	PX4	C28-C27-C26	3.05	98.92	114.42	17	2
4	A	393	PX4	C26-C25-C24	3.05	102.21	113.19	2	3
4	A	310	PX4	O1-P1-O3	3.05	93.57	107.75	2	2
4	A	365	PX4	C8-O5-C9	3.05	105.82	117.12	18	1
4	A	416	PX4	C11-C10-C9	3.05	124.72	113.62	12	4
4	A	335	PX4	C11-C10-C9	3.05	124.71	113.62	6	3
4	A	366	PX4	C4-N1-C2	3.05	97.43	109.92	7	1
4	A	420	PX4	C4-N1-C3	3.05	101.13	108.97	5	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
5	A	436	C3S	O4-S1-O2	3.05	124.47	112.22	16	7
4	A	324	PX4	C5-N1-C3	3.05	116.81	108.97	17	3
4	A	351	PX4	C5-N1-C3	3.05	101.14	108.97	10	5
4	A	366	PX4	C28-C27-C26	3.05	98.95	114.42	16	1
4	A	335	PX4	C5-N1-C4	3.05	116.81	108.97	15	3
4	A	368	PX4	O1-P1-O2	3.05	127.30	112.24	17	8
4	A	360	PX4	O1-P1-O4	3.04	121.88	107.75	12	2
4	A	316	PX4	C4-N1-C3	3.04	101.15	108.97	5	1
4	A	320	PX4	O5-C9-C10	3.04	121.45	111.91	1	7
4	A	320	PX4	C20-C19-C18	3.04	98.98	114.42	14	3
4	A	333	PX4	C31-C30-C29	3.04	98.98	114.42	18	2
4	A	368	PX4	C33-C32-C31	3.04	98.98	114.42	2	2
4	A	384	PX4	O8-C23-C24	3.04	111.86	123.73	1	1
4	A	427	PX4	O7-C7-C6	3.04	119.42	108.40	6	12
4	A	330	PX4	O7-C7-C8	3.04	119.41	108.40	2	6
4	A	365	PX4	O3-C1-C2	3.04	125.16	109.16	13	4
4	A	409	PX4	C14-C13-C12	3.04	98.98	114.42	18	1
4	A	413	PX4	C1-C2-N1	3.04	125.94	115.78	20	6
4	A	423	PX4	O7-C7-C8	3.04	119.41	108.40	17	7
4	A	348	PX4	C28-C27-C26	3.04	98.99	114.42	19	2
4	A	364	PX4	C11-C10-C9	3.04	102.57	113.62	14	3
4	A	365	PX4	O5-C9-O6	3.04	131.26	123.59	19	4
4	A	404	PX4	C4-N1-C3	3.04	101.16	108.97	17	5
4	A	406	PX4	O5-C9-C10	3.04	121.45	111.91	20	5
4	A	366	PX4	C32-C31-C30	3.04	99.00	114.42	1	1
4	A	408	PX4	O1-P1-O4	3.04	121.85	107.75	19	2
4	A	412	PX4	C1-C2-N1	3.04	125.92	115.78	9	2
4	A	322	PX4	C1-C2-N1	3.04	125.92	115.78	15	1
4	A	359	PX4	C31-C30-C29	3.04	99.02	114.42	13	3
5	A	435	C3S	O4-S1-O2	3.04	124.41	112.22	11	9
4	A	318	PX4	C5-N1-C4	3.03	116.77	108.97	5	2
4	A	408	PX4	C5-N1-C3	3.03	101.18	108.97	8	4
4	A	421	PX4	O5-C9-C10	3.03	121.42	111.91	2	2
5	A	434	C3S	C32-C30-C29	3.03	100.19	103.84	20	7
4	A	379	PX4	C8-O5-C9	3.03	105.89	117.12	14	4
4	A	397	PX4	C26-C25-C24	3.03	102.29	113.19	1	2
4	A	346	PX4	C11-C10-C9	3.03	102.61	113.62	15	2
4	A	358	PX4	C11-C10-C9	3.03	102.61	113.62	20	5
4	A	369	PX4	O3-P1-O2	3.03	97.23	109.07	14	4
4	A	371	PX4	C32-C31-C30	3.03	99.05	114.42	4	1
5	A	436	C3S	C29-C30-C18	3.03	109.89	114.38	20	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	372	PX4	C32-C31-C30	3.03	99.05	114.42	7	2
4	A	373	PX4	C11-C10-C9	3.03	102.61	113.62	11	2
4	A	423	PX4	O5-C9-O6	3.03	115.95	123.59	3	5
4	A	316	PX4	C25-C24-C23	3.03	102.61	113.62	6	4
4	A	328	PX4	O1-P1-O3	3.03	93.69	107.75	19	4
4	A	337	PX4	C5-N1-C2	3.03	97.53	109.92	4	2
4	A	417	PX4	C11-C10-C9	3.03	102.61	113.62	18	4
5	A	432	C3S	C23-C20-C18	3.03	107.39	111.75	17	3
4	A	350	PX4	O3-P1-O2	3.03	97.24	109.07	19	8
4	A	309	PX4	O5-C9-C10	3.02	121.40	111.91	15	4
4	A	353	PX4	C16-C15-C14	3.02	99.07	114.42	2	2
5	A	433	C3S	C32-C35-C38	3.03	111.13	105.13	3	4
4	A	342	PX4	C4-N1-C3	3.02	101.20	108.97	8	5
4	A	362	PX4	O5-C9-O6	3.02	115.96	123.59	2	3
4	A	319	PX4	O8-C23-C24	3.02	111.94	123.73	6	2
4	A	363	PX4	O5-C9-C10	3.02	121.39	111.91	3	2
4	A	379	PX4	O8-C23-C24	3.02	111.94	123.73	3	2
4	A	390	PX4	O1-P1-O4	3.02	121.79	107.75	14	2
4	A	421	PX4	C3-N1-C2	3.02	122.28	109.92	14	1
4	A	425	PX4	C25-C24-C23	3.02	102.63	113.62	14	2
4	A	308	PX4	O7-C7-C8	3.02	119.34	108.40	3	8
4	A	332	PX4	C33-C32-C31	3.02	99.09	114.42	1	1
4	A	352	PX4	C33-C32-C31	3.02	99.09	114.42	8	3
4	A	372	PX4	C28-C27-C26	3.02	99.10	114.42	3	2
4	A	376	PX4	O5-C9-C10	3.02	121.38	111.91	6	7
4	A	415	PX4	O5-C9-O6	3.02	115.97	123.59	13	4
4	A	314	PX4	C4-N1-C2	3.02	97.58	109.92	16	2
4	A	326	PX4	C20-C19-C18	3.02	99.11	114.42	16	3
4	A	394	PX4	O8-C23-C24	3.02	111.96	123.73	4	1
4	A	328	PX4	C11-C10-C9	3.01	124.57	113.62	8	4
4	A	367	PX4	C33-C32-C31	3.01	99.14	114.42	11	2
4	A	372	PX4	C25-C24-C23	3.01	102.67	113.62	8	2
4	A	391	PX4	C12-C11-C10	3.01	124.01	113.19	19	4
4	A	401	PX4	C19-C18-C17	3.01	99.14	114.42	16	3
4	A	402	PX4	C12-C11-C10	3.01	102.36	113.19	4	5
4	A	410	PX4	O7-C7-C8	3.01	119.31	108.40	12	12
4	A	412	PX4	C17-C16-C15	3.01	99.14	114.42	7	1
4	A	413	PX4	C32-C31-C30	3.01	99.13	114.42	20	4
4	A	422	PX4	C1-C2-N1	3.01	125.83	115.78	6	7
4	A	311	PX4	O1-P1-O2	3.01	127.12	112.24	17	10
4	A	373	PX4	O1-P1-O2	3.01	127.11	112.24	10	10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	387	PX4	O4-P1-O2	3.01	120.82	109.07	18	5
4	A	420	PX4	O3-P1-O2	3.01	97.31	109.07	19	4
4	A	326	PX4	O5-C9-O6	3.01	116.00	123.59	14	9
4	A	315	PX4	O5-C9-O6	3.01	116.01	123.59	16	11
4	A	345	PX4	O1-P1-O4	3.01	121.71	107.75	16	3
4	A	381	PX4	C30-C29-C28	3.01	99.16	114.42	19	1
4	A	392	PX4	O7-C7-C6	3.01	119.28	108.40	12	7
4	A	411	PX4	O5-C9-C10	3.01	121.34	111.91	7	6
4	A	429	PX4	O4-P1-O2	3.01	97.32	109.07	7	2
4	A	379	PX4	C5-N1-C4	3.00	101.25	108.97	13	5
4	A	404	PX4	C17-C16-C15	3.00	99.17	114.42	18	2
4	A	367	PX4	C34-C33-C32	3.00	99.18	114.42	16	1
4	A	424	PX4	C3-N1-C2	3.00	122.20	109.92	6	1
4	A	326	PX4	O1-P1-O2	3.00	127.08	112.24	8	6
4	A	370	PX4	C4-N1-C3	3.00	101.26	108.97	9	4
4	A	399	PX4	O5-C9-O6	3.00	116.02	123.59	9	5
4	A	337	PX4	O3-C1-C2	3.00	124.94	109.16	12	2
4	A	355	PX4	O3-P1-O2	3.00	97.35	109.07	5	4
4	A	363	PX4	C7-O7-C23	3.00	110.41	117.79	2	7
4	A	318	PX4	O4-P1-O2	3.00	97.36	109.07	14	1
4	A	328	PX4	C25-C24-C23	3.00	102.72	113.62	6	3
4	A	340	PX4	O5-C9-C10	3.00	121.32	111.91	12	6
4	A	343	PX4	O5-C9-C10	3.00	121.32	111.91	13	4
4	A	364	PX4	C5-N1-C4	3.00	101.26	108.97	12	4
4	A	395	PX4	O5-C9-C10	3.00	121.32	111.91	19	6
4	A	398	PX4	O4-P1-O2	3.00	97.35	109.07	14	3
4	A	417	PX4	O7-C7-C6	3.00	119.26	108.40	11	10
4	A	338	PX4	O4-P1-O2	3.00	120.78	109.07	7	4
4	A	340	PX4	O7-C7-C8	3.00	119.25	108.40	2	4
4	A	336	PX4	O5-C9-C10	2.99	121.31	111.91	7	4
4	A	363	PX4	C1-C2-N1	3.00	125.78	115.78	20	5
4	A	371	PX4	C3-N1-C2	2.99	97.66	109.92	19	5
4	A	385	PX4	O5-C9-C10	3.00	121.31	111.91	4	5
4	A	317	PX4	O5-C9-C10	2.99	121.30	111.91	10	4
4	A	347	PX4	C19-C18-C17	2.99	99.23	114.42	20	1
4	A	350	PX4	O1-P1-O2	2.99	127.04	112.24	19	8
4	A	377	PX4	O5-C9-O6	2.99	116.04	123.59	11	8
4	A	391	PX4	C4-N1-C2	2.99	97.67	109.92	15	1
4	A	397	PX4	C25-C24-C23	2.99	102.73	113.62	5	3
4	A	415	PX4	O1-P1-O2	2.99	127.04	112.24	14	5
4	A	370	PX4	O5-C9-C10	2.99	121.30	111.91	17	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	417	PX4	O5-C9-O6	2.99	116.04	123.59	5	4
4	A	376	PX4	C5-N1-C4	2.99	116.67	108.97	9	3
4	A	421	PX4	C5-N1-C2	2.99	122.16	109.92	3	1
4	A	421	PX4	O8-C23-C24	2.99	112.06	123.73	1	1
4	A	333	PX4	O3-P1-O2	2.99	97.39	109.07	1	5
4	A	391	PX4	O6-C9-C10	2.99	112.07	123.73	4	2
4	A	397	PX4	O7-C7-C8	2.99	119.22	108.40	18	6
4	A	332	PX4	C19-C18-C17	2.99	99.26	114.42	7	2
4	A	368	PX4	C20-C19-C18	2.99	99.26	114.42	17	1
4	A	307	PX4	C4-N1-C2	2.99	122.13	109.92	4	1
4	A	312	PX4	C29-C28-C27	2.98	99.28	114.42	5	5
4	A	331	PX4	C28-C27-C26	2.98	99.28	114.42	17	1
4	A	332	PX4	C8-O5-C9	2.98	106.07	117.12	14	2
4	A	339	PX4	C11-C10-C9	2.98	102.77	113.62	1	2
4	A	409	PX4	C1-C2-N1	2.98	125.74	115.78	7	5
4	A	414	PX4	C31-C30-C29	2.98	99.27	114.42	2	2
4	A	338	PX4	O7-C7-C8	2.98	119.20	108.40	3	6
4	A	381	PX4	C1-C2-N1	2.98	125.74	115.78	3	6
4	A	388	PX4	C16-C15-C14	2.98	99.28	114.42	2	2
4	A	392	PX4	C12-C11-C10	2.98	102.47	113.19	5	2
4	A	393	PX4	C33-C32-C31	2.98	99.29	114.42	17	4
4	A	395	PX4	C30-C29-C28	2.98	99.29	114.42	2	2
4	A	324	PX4	O5-C9-O6	2.98	116.07	123.59	11	5
4	A	409	PX4	C27-C26-C25	2.98	99.29	114.42	18	3
4	A	331	PX4	C5-N1-C2	2.98	122.10	109.92	10	3
4	A	338	PX4	C33-C32-C31	2.98	99.31	114.42	6	2
4	A	341	PX4	O3-C1-C2	2.98	124.81	109.16	4	1
4	A	387	PX4	C32-C31-C30	2.98	99.32	114.42	6	4
4	A	307	PX4	O3-P1-O2	2.97	97.45	109.07	9	3
4	A	332	PX4	C31-C30-C29	2.97	99.32	114.42	11	3
4	A	399	PX4	O7-C23-O8	2.97	116.51	123.70	16	5
4	A	401	PX4	O1-P1-O2	2.97	126.94	112.24	9	8
4	A	420	PX4	O1-P1-O3	2.97	93.93	107.75	1	3
4	A	420	PX4	O7-C23-O8	2.97	116.52	123.70	19	7
4	A	315	PX4	C8-O5-C9	2.97	106.12	117.12	14	3
4	A	326	PX4	C26-C25-C24	2.97	102.51	113.19	2	1
4	A	354	PX4	O1-P1-O4	2.97	121.54	107.75	3	4
4	A	364	PX4	C30-C29-C28	2.97	129.51	114.42	10	3
4	A	371	PX4	C5-N1-C3	2.97	116.61	108.97	4	7
4	A	374	PX4	O1-P1-O2	2.97	126.93	112.24	17	7
4	A	402	PX4	C16-C15-C14	2.97	99.34	114.42	16	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	411	PX4	C28-C27-C26	2.97	99.34	114.42	5	3
4	A	342	PX4	C32-C31-C30	2.97	99.35	114.42	15	3
4	A	348	PX4	C30-C29-C28	2.97	99.36	114.42	1	1
4	A	321	PX4	O3-P1-O2	2.97	97.47	109.07	16	2
4	A	353	PX4	O1-P1-O3	2.97	93.96	107.75	17	3
4	A	380	PX4	C25-C24-C23	2.97	102.83	113.62	15	3
4	A	391	PX4	C11-C10-C9	2.97	102.83	113.62	18	1
4	A	376	PX4	C18-C17-C16	2.97	99.37	114.42	8	1
4	A	406	PX4	C1-C2-N1	2.97	125.69	115.78	8	4
4	A	401	PX4	C34-C33-C32	2.97	99.37	114.42	2	2
4	A	406	PX4	O1-P1-O4	2.97	121.52	107.75	17	1
4	A	418	PX4	C20-C19-C18	2.97	99.37	114.42	8	1
4	A	430	PX4	C32-C31-C30	2.97	99.37	114.42	11	1
4	A	361	PX4	C18-C17-C16	2.96	99.38	114.42	11	2
4	A	367	PX4	C18-C17-C16	2.96	99.38	114.42	7	6
4	A	322	PX4	O3-P1-O2	2.96	97.50	109.07	10	4
4	A	318	PX4	O3-C1-C2	2.96	124.73	109.16	20	5
4	A	327	PX4	C1-C2-N1	2.96	125.67	115.78	7	4
4	A	347	PX4	O5-C9-O6	2.96	116.12	123.59	14	7
4	A	363	PX4	C26-C25-C24	2.96	123.84	113.19	1	4
4	A	387	PX4	O1-P1-O3	2.96	93.99	107.75	9	4
4	A	401	PX4	C16-C15-C14	2.96	99.38	114.42	11	4
4	A	382	PX4	O5-C9-C10	2.96	121.20	111.91	16	2
4	A	411	PX4	O1-P1-O4	2.96	121.50	107.75	1	3
4	A	422	PX4	O1-P1-O4	2.96	121.50	107.75	20	1
4	A	353	PX4	C32-C31-C30	2.96	99.40	114.42	7	3
4	A	379	PX4	C30-C29-C28	2.96	99.40	114.42	14	2
4	A	388	PX4	C15-C14-C13	2.96	99.40	114.42	13	3
4	A	416	PX4	C26-C25-C24	2.96	102.55	113.19	20	3
4	A	317	PX4	C3-N1-C2	2.96	122.02	109.92	10	4
4	A	317	PX4	O7-C23-O8	2.96	116.56	123.70	13	6
4	A	394	PX4	O3-C1-C2	2.96	124.71	109.16	11	3
4	A	409	PX4	O1-P1-O4	2.96	121.48	107.75	18	3
4	A	344	PX4	C15-C14-C13	2.96	99.42	114.42	20	3
4	A	397	PX4	O1-P1-O4	2.96	121.47	107.75	13	2
4	A	307	PX4	O5-C9-C10	2.95	121.18	111.91	7	3
4	A	328	PX4	O5-C9-C10	2.95	121.18	111.91	9	6
4	A	332	PX4	C13-C12-C11	2.95	99.43	114.42	18	2
4	A	335	PX4	O3-P1-O2	2.95	97.52	109.07	20	6
4	A	340	PX4	P1-O4-C6	2.95	104.36	121.68	14	12
4	A	375	PX4	O7-C7-C6	2.95	119.09	108.40	11	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	384	PX4	C31-C30-C29	2.95	99.44	114.42	12	2
4	A	308	PX4	C26-C25-C24	2.95	102.58	113.19	18	2
4	A	337	PX4	C11-C10-C9	2.95	102.89	113.62	12	2
4	A	413	PX4	O3-P1-O2	2.95	97.54	109.07	16	4
4	A	355	PX4	C26-C25-C24	2.95	102.59	113.19	19	4
4	A	400	PX4	O7-C7-C6	2.95	119.08	108.40	7	7
4	A	380	PX4	C5-N1-C2	2.95	121.98	109.92	6	1
4	A	424	PX4	C4-N1-C2	2.95	97.85	109.92	3	3
4	A	322	PX4	C4-N1-C2	2.95	121.97	109.92	13	1
4	A	324	PX4	C11-C10-C9	2.95	102.91	113.62	1	5
4	A	347	PX4	C33-C32-C31	2.95	99.47	114.42	15	1
4	A	348	PX4	O7-C7-C6	2.94	119.06	108.40	15	11
4	A	348	PX4	O5-C9-C10	2.95	121.15	111.91	14	6
4	A	377	PX4	O8-C23-C24	2.95	112.24	123.73	4	3
4	A	406	PX4	C34-C33-C32	2.95	99.47	114.42	3	2
4	A	305	PX4	C15-C14-C13	2.94	99.48	114.42	7	4
4	A	308	PX4	C5-N1-C4	2.94	101.41	108.97	20	5
4	A	309	PX4	C12-C11-C10	2.94	102.61	113.19	20	3
4	A	422	PX4	O5-C9-O6	2.94	116.16	123.59	10	3
4	A	312	PX4	C13-C12-C11	2.94	99.48	114.42	13	2
4	A	338	PX4	C15-C14-C13	2.94	99.49	114.42	10	2
4	A	346	PX4	O4-P1-O2	2.94	97.57	109.07	7	2
4	A	314	PX4	C20-C19-C18	2.94	99.49	114.42	7	1
4	A	323	PX4	C4-N1-C2	2.94	121.95	109.92	16	2
4	A	387	PX4	O5-C9-C10	2.94	121.14	111.91	4	7
4	A	356	PX4	C12-C11-C10	2.94	102.62	113.19	7	4
4	A	422	PX4	C30-C29-C28	2.94	99.49	114.42	11	3
4	A	422	PX4	C18-C17-C16	2.94	99.50	114.42	19	1
4	A	425	PX4	O7-C7-C6	2.94	119.05	108.40	13	9
4	A	308	PX4	C4-N1-C3	2.94	101.42	108.97	6	3
4	A	328	PX4	C1-C2-N1	2.94	125.59	115.78	8	7
4	A	331	PX4	C25-C24-C23	2.94	102.93	113.62	5	3
4	A	362	PX4	C4-N1-C3	2.94	116.53	108.97	1	6
4	A	395	PX4	C15-C14-C13	2.94	99.50	114.42	14	2
4	A	382	PX4	O1-P1-O3	2.94	94.10	107.75	17	1
4	A	428	PX4	C11-C10-C9	2.94	124.31	113.62	8	4
4	A	383	PX4	O7-C7-C6	2.94	119.04	108.40	3	7
4	A	342	PX4	C5-N1-C2	2.94	121.93	109.92	18	2
4	A	359	PX4	C27-C26-C25	2.94	99.52	114.42	5	2
4	A	398	PX4	C5-N1-C4	2.94	116.52	108.97	7	4
4	A	313	PX4	C3-N1-C2	2.93	121.92	109.92	4	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	390	PX4	O5-C9-C10	2.93	121.12	111.91	17	3
4	A	407	PX4	C18-C17-C16	2.93	99.53	114.42	12	2
4	A	305	PX4	C1-C2-N1	2.93	125.57	115.78	19	5
4	A	422	PX4	C19-C18-C17	2.93	99.53	114.42	12	1
4	A	425	PX4	C12-C11-C10	2.93	102.64	113.19	11	1
4	A	349	PX4	O1-P1-O2	2.93	126.73	112.24	11	9
4	A	352	PX4	C11-C10-C9	2.93	102.96	113.62	6	4
4	A	362	PX4	C8-O5-C9	2.93	127.98	117.12	6	2
4	A	370	PX4	C18-C17-C16	2.93	99.54	114.42	18	3
4	A	390	PX4	O1-P1-O3	2.93	94.13	107.75	7	3
4	A	403	PX4	C11-C10-C9	2.93	102.96	113.62	12	2
4	A	404	PX4	C18-C17-C16	2.93	99.54	114.42	19	3
5	A	432	C3S	C32-C35-C38	2.93	110.94	105.13	14	11
4	A	401	PX4	C4-N1-C3	2.93	101.44	108.97	2	4
4	A	326	PX4	C15-C14-C13	2.93	99.56	114.42	12	2
4	A	346	PX4	C26-C25-C24	2.93	102.66	113.19	8	2
4	A	377	PX4	O3-P1-O2	2.93	97.62	109.07	1	2
4	A	394	PX4	O1-P1-O3	2.93	94.14	107.75	3	2
4	A	406	PX4	C18-C17-C16	2.93	99.55	114.42	12	3
4	A	410	PX4	O5-C9-C10	2.93	121.10	111.91	18	9
4	A	411	PX4	O5-C9-O6	2.93	116.20	123.59	19	4
4	A	429	PX4	C31-C30-C29	2.93	99.55	114.42	17	3
4	A	387	PX4	O7-C7-C6	2.93	119.00	108.40	10	8
4	A	393	PX4	O1-P1-O3	2.93	94.15	107.75	14	4
4	A	397	PX4	C8-O5-C9	2.93	106.28	117.12	14	2
4	A	414	PX4	O4-P1-O2	2.93	120.51	109.07	6	5
4	A	334	PX4	C30-C29-C28	2.93	99.57	114.42	10	3
4	A	330	PX4	C15-C14-C13	2.93	99.58	114.42	3	2
4	A	331	PX4	C1-C2-N1	2.93	125.55	115.78	20	6
4	A	393	PX4	C27-C26-C25	2.93	99.57	114.42	16	3
4	A	372	PX4	C5-N1-C2	2.92	97.95	109.92	20	1
4	A	420	PX4	C29-C28-C27	2.93	99.58	114.42	5	2
4	A	401	PX4	C18-C17-C16	2.92	99.58	114.42	8	1
4	A	422	PX4	C11-C10-C9	2.93	102.98	113.62	20	1
4	A	428	PX4	O5-C9-C10	2.93	121.09	111.91	12	6
4	A	342	PX4	C26-C25-C24	2.92	102.68	113.19	3	3
4	A	349	PX4	C17-C16-C15	2.92	99.59	114.42	9	3
4	A	351	PX4	O4-P1-O2	2.92	97.66	109.07	14	2
4	A	386	PX4	C5-N1-C4	2.92	101.47	108.97	7	6
4	A	421	PX4	C30-C29-C28	2.92	99.60	114.42	20	1
4	A	338	PX4	C25-C24-C23	2.92	103.01	113.62	1	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	350	PX4	C32-C31-C30	2.92	99.61	114.42	1	1
4	A	305	PX4	C3-N1-C2	2.92	97.98	109.92	13	3
4	A	407	PX4	C4-N1-C2	2.92	121.85	109.92	8	3
4	A	426	PX4	O7-C23-O8	2.92	116.65	123.70	8	7
4	A	429	PX4	C25-C24-C23	2.92	103.01	113.62	10	4
5	A	434	C3S	C1-C22-C12	2.92	103.41	108.75	14	3
4	A	314	PX4	O6-C9-C10	2.91	112.36	123.73	4	1
4	A	359	PX4	O3-C1-C2	2.91	124.49	109.16	4	3
4	A	419	PX4	O6-C9-C10	2.91	135.10	123.73	7	1
4	A	420	PX4	C32-C31-C30	2.91	99.63	114.42	2	3
4	A	321	PX4	C18-C17-C16	2.91	99.65	114.42	16	6
4	A	388	PX4	C31-C30-C29	2.91	99.65	114.42	8	2
4	A	307	PX4	C20-C19-C18	2.91	99.66	114.42	15	2
4	A	310	PX4	C20-C19-C18	2.91	99.66	114.42	13	2
4	A	353	PX4	C33-C32-C31	2.91	99.66	114.42	11	2
4	A	427	PX4	C32-C31-C30	2.91	99.66	114.42	12	3
4	A	362	PX4	C25-C24-C23	2.91	103.05	113.62	14	4
4	A	416	PX4	O4-P1-O2	2.91	120.42	109.07	14	3
4	A	305	PX4	C12-C11-C10	2.90	123.63	113.19	9	4
4	A	317	PX4	O7-C7-C6	2.90	118.91	108.40	3	4
4	A	392	PX4	O8-C23-C24	2.90	135.06	123.73	11	3
4	A	416	PX4	C19-C18-C17	2.90	99.69	114.42	5	1
4	A	328	PX4	C32-C31-C30	2.90	99.69	114.42	5	2
4	A	314	PX4	C19-C18-C17	2.90	99.70	114.42	18	3
4	A	361	PX4	C25-C24-C23	2.90	103.07	113.62	12	4
4	A	316	PX4	O3-C1-C2	2.90	124.40	109.16	17	3
4	A	348	PX4	C3-N1-C2	2.90	121.77	109.92	8	1
4	A	339	PX4	C32-C31-C30	2.89	99.73	114.42	6	1
4	A	370	PX4	C16-C15-C14	2.90	99.73	114.42	15	1
4	A	415	PX4	O3-C1-C2	2.89	124.39	109.16	15	1
4	A	425	PX4	O3-P1-O2	2.89	97.76	109.07	18	4
4	A	309	PX4	O1-P1-O3	2.89	94.31	107.75	20	3
4	A	311	PX4	O6-C9-C10	2.89	112.44	123.73	7	1
4	A	336	PX4	O8-C23-C24	2.89	112.44	123.73	5	2
4	A	389	PX4	O5-C9-O6	2.89	116.29	123.59	1	3
4	A	400	PX4	C28-C27-C26	2.89	99.74	114.42	13	4
4	A	318	PX4	C19-C18-C17	2.89	99.74	114.42	20	1
4	A	424	PX4	O4-P1-O2	2.89	120.37	109.07	3	4
4	A	329	PX4	C12-C11-C10	2.89	102.80	113.19	16	7
4	A	343	PX4	O3-C1-C2	2.89	124.36	109.16	18	2
4	A	363	PX4	C13-C12-C11	2.89	99.75	114.42	16	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
5	A	436	C3S	C1-C22-C12	2.89	103.46	108.75	16	5
4	A	305	PX4	O7-C7-C8	2.89	118.86	108.40	4	5
4	A	319	PX4	O5-C9-O6	2.89	116.30	123.59	17	6
4	A	372	PX4	C33-C32-C31	2.89	99.75	114.42	10	2
4	A	345	PX4	C33-C32-C31	2.89	99.76	114.42	10	4
4	A	365	PX4	C11-C10-C9	2.89	103.12	113.62	9	3
4	A	374	PX4	O5-C9-C10	2.89	120.97	111.91	9	4
4	A	422	PX4	C4-N1-C3	2.89	101.55	108.97	2	4
4	A	429	PX4	C33-C32-C31	2.89	99.76	114.42	16	1
4	A	378	PX4	C4-N1-C3	2.89	116.40	108.97	8	5
4	A	378	PX4	C5-N1-C3	2.89	101.55	108.97	18	5
4	A	306	PX4	C28-C27-C26	2.89	99.78	114.42	4	2
4	A	330	PX4	C3-N1-C2	2.88	121.72	109.92	9	3
4	A	340	PX4	C14-C13-C12	2.89	99.78	114.42	6	4
4	A	346	PX4	C14-C13-C12	2.88	99.78	114.42	5	1
4	A	381	PX4	C12-C11-C10	2.88	102.82	113.19	13	2
4	A	391	PX4	C14-C13-C12	2.88	99.78	114.42	9	1
4	A	400	PX4	O7-C7-C8	2.88	118.85	108.40	2	5
4	A	396	PX4	O1-P1-O3	2.88	94.35	107.75	12	2
4	A	416	PX4	O7-C7-C6	2.88	118.84	108.40	14	6
4	A	378	PX4	C5-N1-C2	2.88	121.71	109.92	18	2
4	A	407	PX4	C5-N1-C4	2.88	116.39	108.97	11	4
4	A	390	PX4	O7-C7-C8	2.88	118.83	108.40	13	5
4	A	419	PX4	O1-P1-O4	2.88	94.36	107.75	17	4
4	A	317	PX4	O5-C9-O6	2.88	116.32	123.59	6	4
4	A	384	PX4	C28-C27-C26	2.88	99.81	114.42	16	1
4	A	393	PX4	C34-C33-C32	2.88	99.81	114.42	8	3
4	A	308	PX4	C32-C31-C30	2.88	99.82	114.42	9	2
4	A	358	PX4	O3-P1-O2	2.88	97.83	109.07	11	4
4	A	381	PX4	C32-C31-C30	2.88	99.82	114.42	18	1
4	A	419	PX4	C8-O5-C9	2.88	106.46	117.12	13	3
4	A	322	PX4	C5-N1-C3	2.88	101.58	108.97	2	5
4	A	342	PX4	C25-C24-C23	2.88	103.16	113.62	9	5
4	A	354	PX4	C5-N1-C4	2.88	116.37	108.97	20	3
4	A	381	PX4	C13-C12-C11	2.88	99.83	114.42	3	3
5	A	432	C3S	C26-C29-C30	2.88	102.81	107.27	4	4
4	A	312	PX4	O7-C7-C6	2.87	118.81	108.40	17	5
4	A	319	PX4	O5-C9-C10	2.87	120.93	111.91	4	5
4	A	320	PX4	C3-N1-C2	2.87	98.16	109.92	18	1
4	A	337	PX4	O7-C23-O8	2.87	116.76	123.70	4	6
4	A	330	PX4	C1-C2-N1	2.87	125.37	115.78	18	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	390	PX4	C3-N1-C2	2.87	98.17	109.92	13	1
4	A	411	PX4	P1-O4-C6	2.87	104.84	121.68	3	13
4	A	419	PX4	C25-C24-C23	2.87	103.17	113.62	6	2
4	A	364	PX4	C5-N1-C3	2.87	101.59	108.97	14	5
4	A	316	PX4	C8-O5-C9	2.87	127.74	117.12	15	4
4	A	319	PX4	C7-O7-C23	2.87	110.73	117.79	9	5
4	A	335	PX4	C3-N1-C2	2.87	121.66	109.92	1	4
4	A	351	PX4	C5-N1-C4	2.87	116.35	108.97	15	1
4	A	374	PX4	C32-C31-C30	2.87	99.85	114.42	15	5
4	A	393	PX4	O7-C23-O8	2.87	116.76	123.70	18	3
4	A	413	PX4	O5-C9-C10	2.87	120.91	111.91	20	6
4	A	428	PX4	C19-C18-C17	2.87	99.85	114.42	10	2
4	A	317	PX4	C14-C13-C12	2.87	99.87	114.42	1	2
4	A	340	PX4	C4-N1-C2	2.87	121.65	109.92	20	2
4	A	352	PX4	C26-C25-C24	2.87	102.88	113.19	7	4
4	A	354	PX4	C14-C13-C12	2.87	99.86	114.42	4	4
4	A	391	PX4	O7-C23-O8	2.87	116.77	123.70	9	4
4	A	366	PX4	O3-P1-O2	2.87	97.86	109.07	3	6
4	A	320	PX4	C25-C24-C23	2.87	103.20	113.62	8	3
4	A	369	PX4	C18-C17-C16	2.87	99.87	114.42	16	1
4	A	405	PX4	C8-O5-C9	2.87	106.50	117.12	12	1
5	A	432	C3S	C22-C20-C18	2.87	117.04	112.73	9	2
4	A	342	PX4	C34-C33-C32	2.86	99.89	114.42	5	3
4	A	348	PX4	C14-C13-C12	2.86	99.88	114.42	17	3
4	A	389	PX4	O3-P1-O2	2.87	97.87	109.07	13	5
4	A	339	PX4	O1-P1-O4	2.86	121.04	107.75	19	2
4	A	370	PX4	C30-C29-C28	2.86	99.89	114.42	6	2
4	A	324	PX4	C1-C2-N1	2.86	125.33	115.78	5	9
4	A	330	PX4	C5-N1-C3	2.86	101.62	108.97	8	7
4	A	346	PX4	C20-C19-C18	2.86	99.90	114.42	1	2
4	A	366	PX4	C7-O7-C23	2.86	124.84	117.79	15	5
4	A	366	PX4	C15-C14-C13	2.86	99.89	114.42	10	1
4	A	375	PX4	C25-C24-C23	2.86	103.21	113.62	6	3
4	A	399	PX4	C15-C14-C13	2.86	99.90	114.42	11	2
4	A	323	PX4	C3-N1-C2	2.86	121.62	109.92	8	2
4	A	338	PX4	C1-C2-N1	2.86	125.33	115.78	20	6
4	A	400	PX4	C33-C32-C31	2.86	99.90	114.42	16	3
4	A	401	PX4	C1-C2-N1	2.86	125.33	115.78	7	5
4	A	356	PX4	O4-P1-O2	2.86	120.24	109.07	11	3
4	A	345	PX4	C1-C2-N1	2.86	125.32	115.78	20	2
4	A	350	PX4	O5-C9-C10	2.86	120.88	111.91	2	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	382	PX4	C8-O5-C9	2.86	106.53	117.12	8	3
4	A	386	PX4	C12-C11-C10	2.86	123.47	113.19	10	5
4	A	349	PX4	C8-O5-C9	2.86	106.54	117.12	8	2
4	A	369	PX4	C19-C18-C17	2.86	99.91	114.42	6	4
4	A	376	PX4	O4-P1-O2	2.86	97.90	109.07	19	5
4	A	393	PX4	O4-P1-O2	2.86	120.23	109.07	14	3
4	A	407	PX4	C29-C28-C27	2.86	99.92	114.42	15	2
4	A	414	PX4	C5-N1-C2	2.86	98.22	109.92	8	3
4	A	423	PX4	C32-C31-C30	2.86	99.92	114.42	8	3
4	A	341	PX4	C30-C29-C28	2.86	99.93	114.42	8	2
4	A	339	PX4	C25-C24-C23	2.85	103.24	113.62	8	1
4	A	364	PX4	C4-N1-C2	2.86	121.60	109.92	4	2
4	A	409	PX4	O4-P1-O2	2.86	120.22	109.07	9	2
4	A	394	PX4	C26-C25-C24	2.85	123.45	113.19	1	2
4	A	395	PX4	O7-C7-C8	2.85	118.73	108.40	12	5
4	A	412	PX4	O1-P1-O4	2.85	121.00	107.75	6	3
4	A	420	PX4	O5-C9-C10	2.85	120.86	111.91	10	4
4	A	311	PX4	C3-N1-C2	2.85	98.24	109.92	6	1
4	A	321	PX4	C30-C29-C28	2.85	99.94	114.42	5	1
4	A	337	PX4	C8-O5-C9	2.85	106.56	117.12	10	2
4	A	428	PX4	C31-C30-C29	2.85	99.94	114.42	5	1
4	A	373	PX4	C31-C30-C29	2.85	99.95	114.42	5	2
4	A	357	PX4	C8-O5-C9	2.85	106.57	117.12	17	3
4	A	367	PX4	C14-C13-C12	2.85	99.95	114.42	2	3
4	A	386	PX4	C3-N1-C2	2.85	121.58	109.92	9	4
4	A	394	PX4	O5-C9-O6	2.85	116.40	123.59	3	5
4	A	402	PX4	O3-P1-O2	2.85	97.93	109.07	16	6
4	A	412	PX4	O5-C9-O6	2.85	116.40	123.59	12	5
4	A	415	PX4	C8-O5-C9	2.85	127.68	117.12	9	2
4	A	308	PX4	C5-N1-C2	2.85	98.26	109.92	18	2
4	A	313	PX4	O5-C9-C10	2.85	120.85	111.91	20	4
4	A	335	PX4	O8-C23-C24	2.85	112.62	123.73	2	1
4	A	338	PX4	C27-C26-C25	2.85	99.97	114.42	14	1
4	A	325	PX4	C8-O5-C9	2.85	106.58	117.12	12	1
4	A	333	PX4	C11-C10-C9	2.85	103.27	113.62	8	2
4	A	345	PX4	O4-P1-O2	2.85	97.94	109.07	5	3
4	A	352	PX4	C13-C12-C11	2.85	99.97	114.42	10	3
4	A	339	PX4	O5-C9-C10	2.85	120.84	111.91	8	4
4	A	355	PX4	O6-C9-C10	2.85	112.63	123.73	19	1
4	A	359	PX4	C34-C33-C32	2.85	99.98	114.42	3	3
4	A	360	PX4	C33-C32-C31	2.85	99.98	114.42	13	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	393	PX4	O8-C23-C24	2.85	112.63	123.73	11	3
4	A	397	PX4	C15-C14-C13	2.85	99.98	114.42	16	3
4	A	399	PX4	O1-P1-O2	2.85	126.31	112.24	5	9
4	A	422	PX4	O4-P1-O2	2.85	97.95	109.07	5	2
5	A	431	C3S	C29-C30-C18	2.85	118.60	114.38	4	5
4	A	329	PX4	C1-C2-N1	2.84	125.28	115.78	16	4
4	A	365	PX4	C29-C28-C27	2.84	99.98	114.42	12	3
4	A	352	PX4	C5-N1-C2	2.84	121.55	109.92	17	1
4	A	333	PX4	C8-O5-C9	2.84	106.60	117.12	13	2
4	A	409	PX4	C5-N1-C2	2.84	98.29	109.92	4	2
4	A	338	PX4	C29-C28-C27	2.84	100.00	114.42	18	2
4	A	344	PX4	O4-P1-O2	2.84	120.16	109.07	7	3
4	A	345	PX4	O1-P1-O3	2.84	94.56	107.75	6	1
4	A	348	PX4	O1-P1-O4	2.84	94.56	107.75	2	2
4	A	375	PX4	O4-P1-O2	2.84	120.17	109.07	5	3
4	A	413	PX4	C19-C18-C17	2.84	100.01	114.42	9	2
4	A	325	PX4	C27-C26-C25	2.84	100.02	114.42	16	5
4	A	355	PX4	C5-N1-C3	2.84	116.27	108.97	12	4
4	A	366	PX4	O5-C9-O6	2.84	116.43	123.59	2	3
4	A	341	PX4	C11-C10-C9	2.84	103.30	113.62	9	1
4	A	342	PX4	C30-C29-C28	2.84	100.02	114.42	1	3
4	A	352	PX4	C31-C30-C29	2.84	100.02	114.42	18	3
4	A	311	PX4	C18-C17-C16	2.84	100.03	114.42	18	2
4	A	361	PX4	O1-P1-O2	2.84	126.26	112.24	17	5
4	A	361	PX4	O4-P1-O2	2.84	120.14	109.07	20	2
4	A	374	PX4	C18-C17-C16	2.84	100.03	114.42	16	3
4	A	392	PX4	C28-C27-C26	2.84	100.03	114.42	17	1
4	A	325	PX4	C4-N1-C3	2.83	101.69	108.97	6	5
4	A	354	PX4	C30-C29-C28	2.83	100.04	114.42	9	3
4	A	414	PX4	C33-C32-C31	2.83	100.04	114.42	9	1
4	A	312	PX4	C33-C32-C31	2.83	100.05	114.42	14	3
4	A	344	PX4	C13-C12-C11	2.83	128.80	114.42	16	2
4	A	392	PX4	C17-C16-C15	2.83	100.05	114.42	17	1
4	A	408	PX4	C31-C30-C29	2.83	100.04	114.42	10	1
4	A	370	PX4	C11-C10-C9	2.83	123.92	113.62	6	3
4	A	312	PX4	C4-N1-C3	2.83	116.25	108.97	17	5
4	A	380	PX4	O1-P1-O4	2.83	120.89	107.75	13	2
4	A	342	PX4	C4-N1-C2	2.83	98.34	109.92	5	2
4	A	348	PX4	C4-N1-C3	2.83	101.70	108.97	14	4
4	A	365	PX4	C1-C2-N1	2.83	125.23	115.78	12	4
4	A	416	PX4	C17-C16-C15	2.83	100.06	114.42	11	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	382	PX4	O5-C9-O6	2.83	116.45	123.59	14	6
4	A	394	PX4	C20-C19-C18	2.83	128.78	114.42	20	2
4	A	320	PX4	C12-C11-C10	2.82	103.04	113.19	4	4
4	A	323	PX4	C13-C12-C11	2.83	100.08	114.42	12	1
4	A	340	PX4	O7-C7-C6	2.83	118.63	108.40	18	7
4	A	364	PX4	O8-C23-C24	2.83	112.70	123.73	18	1
4	A	341	PX4	C8-O5-C9	2.83	106.66	117.12	3	2
4	A	371	PX4	O7-C7-C6	2.83	118.63	108.40	18	6
4	A	317	PX4	O1-P1-O2	2.82	126.20	112.24	6	7
4	A	339	PX4	O4-P1-O2	2.82	120.10	109.07	1	5
4	A	347	PX4	O3-C1-C2	2.82	124.01	109.16	9	2
4	A	361	PX4	C11-C10-C9	2.82	103.36	113.62	6	3
4	A	364	PX4	C29-C28-C27	2.82	100.09	114.42	17	2
4	A	367	PX4	C4-N1-C3	2.82	101.71	108.97	7	7
4	A	414	PX4	O3-C1-C2	2.82	124.01	109.16	8	4
4	A	422	PX4	C26-C25-C24	2.82	103.04	113.19	6	4
4	A	402	PX4	O7-C23-O8	2.82	116.88	123.70	14	3
4	A	315	PX4	C3-N1-C2	2.82	121.46	109.92	7	4
4	A	360	PX4	C12-C11-C10	2.82	123.33	113.19	14	2
4	A	365	PX4	C14-C13-C12	2.82	100.10	114.42	20	1
4	A	380	PX4	C14-C13-C12	2.82	100.11	114.42	15	1
5	A	435	C3S	C26-C23-C20	2.82	108.22	113.11	11	4
4	A	322	PX4	C5-N1-C2	2.82	121.45	109.92	8	3
4	A	332	PX4	O5-C9-O6	2.82	116.48	123.59	15	3
4	A	414	PX4	C32-C31-C30	2.82	100.11	114.42	18	1
4	A	421	PX4	C15-C14-C13	2.82	100.11	114.42	9	2
4	A	375	PX4	C11-C10-C9	2.82	123.87	113.62	17	2
4	A	341	PX4	C12-C11-C10	2.82	103.06	113.19	16	4
4	A	421	PX4	C20-C19-C18	2.82	100.12	114.42	10	3
4	A	380	PX4	C27-C26-C25	2.82	100.13	114.42	5	2
4	A	399	PX4	O8-C23-C24	2.81	112.75	123.73	8	2
4	A	415	PX4	C31-C30-C29	2.82	100.13	114.42	8	1
4	A	310	PX4	C15-C14-C13	2.81	100.14	114.42	13	1
4	A	323	PX4	C32-C31-C30	2.81	100.14	114.42	5	3
4	A	365	PX4	C5-N1-C3	2.81	116.21	108.97	19	3
4	A	426	PX4	O7-C7-C8	2.81	118.59	108.40	8	7
4	A	322	PX4	C29-C28-C27	2.81	100.14	114.42	4	3
4	A	398	PX4	C8-O5-C9	2.81	106.70	117.12	2	3
4	A	428	PX4	O3-C1-C2	2.81	123.96	109.16	16	1
4	A	314	PX4	C30-C29-C28	2.81	100.15	114.42	5	1
4	A	384	PX4	O1-P1-O3	2.81	94.68	107.75	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	407	PX4	C26-C25-C24	2.81	103.08	113.19	17	1
4	A	319	PX4	C15-C14-C13	2.81	100.15	114.42	2	2
4	A	428	PX4	O3-P1-O2	2.81	98.08	109.07	6	4
4	A	335	PX4	C30-C29-C28	2.81	100.16	114.42	7	1
4	A	391	PX4	O1-P1-O4	2.81	120.80	107.75	7	2
4	A	385	PX4	C27-C26-C25	2.81	100.16	114.42	18	1
4	A	399	PX4	C18-C17-C16	2.81	100.16	114.42	11	4
4	A	421	PX4	O1-P1-O4	2.81	120.80	107.75	11	4
4	A	353	PX4	O5-C9-C10	2.81	120.72	111.91	17	2
4	A	417	PX4	C33-C32-C31	2.81	100.17	114.42	9	1
4	A	327	PX4	O5-C9-O6	2.81	116.51	123.59	7	3
4	A	327	PX4	O3-P1-O2	2.81	98.10	109.07	19	3
4	A	371	PX4	C15-C14-C13	2.81	100.18	114.42	11	2
4	A	382	PX4	C11-C10-C9	2.81	103.41	113.62	18	3
4	A	427	PX4	O5-C9-O6	2.81	116.51	123.59	3	5
4	A	407	PX4	O1-P1-O3	2.81	94.71	107.75	19	2
4	A	423	PX4	C7-O7-C23	2.81	124.70	117.79	16	3
4	A	305	PX4	O1-P1-O4	2.80	120.77	107.75	3	3
4	A	344	PX4	C18-C17-C16	2.80	100.19	114.42	5	3
4	A	398	PX4	C32-C31-C30	2.80	100.19	114.42	7	2
4	A	408	PX4	O3-C1-C2	2.80	123.91	109.16	19	3
4	A	350	PX4	C17-C16-C15	2.80	100.19	114.42	18	2
4	A	370	PX4	C8-O5-C9	2.80	106.74	117.12	7	1
4	A	317	PX4	O7-C7-C8	2.80	118.54	108.40	2	6
4	A	334	PX4	O1-P1-O3	2.80	94.73	107.75	10	2
4	A	350	PX4	C25-C24-C23	2.80	103.43	113.62	20	1
4	A	379	PX4	C1-C2-N1	2.80	125.13	115.78	8	5
4	A	410	PX4	C30-C29-C28	2.80	100.20	114.42	17	2
4	A	347	PX4	O1-P1-O3	2.80	94.74	107.75	9	3
4	A	308	PX4	O1-P1-O2	2.80	126.06	112.24	17	12
4	A	311	PX4	O7-C7-C8	2.80	118.53	108.40	13	5
4	A	372	PX4	C4-N1-C2	2.80	121.36	109.92	6	3
4	A	375	PX4	C29-C28-C27	2.80	100.22	114.42	17	1
4	A	337	PX4	O4-P1-O2	2.80	119.99	109.07	13	2
4	A	371	PX4	O4-P1-O2	2.80	119.99	109.07	12	2
4	A	380	PX4	C15-C14-C13	2.80	100.23	114.42	8	3
4	A	392	PX4	C25-C24-C23	2.80	103.45	113.62	18	3
4	A	420	PX4	C26-C25-C24	2.80	103.14	113.19	14	2
4	A	306	PX4	O4-P1-O2	2.79	98.15	109.07	16	2
4	A	347	PX4	C16-C15-C14	2.79	100.24	114.42	16	4
4	A	363	PX4	C33-C32-C31	2.79	100.24	114.42	12	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	369	PX4	C5-N1-C4	2.79	116.16	108.97	20	2
4	A	310	PX4	C1-C2-N1	2.79	125.11	115.78	4	5
4	A	308	PX4	O5-C9-C10	2.79	120.67	111.91	2	4
4	A	315	PX4	C25-C24-C23	2.79	103.47	113.62	19	2
4	A	354	PX4	O8-C23-C24	2.79	112.84	123.73	12	2
4	A	405	PX4	C33-C32-C31	2.79	100.24	114.42	12	3
4	A	418	PX4	C8-O5-C9	2.79	106.78	117.12	12	3
4	A	381	PX4	O4-P1-O2	2.79	119.98	109.07	13	3
5	A	435	C3S	C40-C29-C38	2.79	116.92	111.71	19	4
4	A	326	PX4	O1-P1-O4	2.79	120.71	107.75	1	2
4	A	400	PX4	O4-P1-O2	2.79	119.97	109.07	15	5
4	A	404	PX4	O5-C9-C10	2.79	120.67	111.91	12	3
4	A	416	PX4	C33-C32-C31	2.79	100.26	114.42	10	3
4	A	417	PX4	C12-C11-C10	2.79	103.16	113.19	18	2
4	A	379	PX4	C12-C11-C10	2.79	103.17	113.19	20	4
4	A	388	PX4	O4-P1-O2	2.79	119.96	109.07	8	1
4	A	404	PX4	C32-C31-C30	2.79	100.27	114.42	5	1
4	A	419	PX4	C12-C11-C10	2.79	103.16	113.19	20	3
4	A	313	PX4	C33-C32-C31	2.79	100.28	114.42	1	4
4	A	357	PX4	C28-C27-C26	2.79	100.28	114.42	17	2
4	A	361	PX4	C5-N1-C2	2.79	121.32	109.92	14	2
4	A	404	PX4	O4-P1-O2	2.79	119.95	109.07	17	2
4	A	322	PX4	C27-C26-C25	2.78	100.29	114.42	14	3
4	A	337	PX4	C25-C24-C23	2.79	103.49	113.62	3	2
4	A	417	PX4	O3-C1-C2	2.79	123.81	109.16	10	2
4	A	424	PX4	C31-C30-C29	2.78	100.29	114.42	12	1
4	A	308	PX4	O3-P1-O2	2.78	98.20	109.07	18	3
4	A	311	PX4	C28-C27-C26	2.78	100.30	114.42	5	3
4	A	325	PX4	C15-C14-C13	2.78	100.30	114.42	17	1
4	A	343	PX4	C13-C12-C11	2.78	100.30	114.42	1	3
4	A	360	PX4	C20-C19-C18	2.78	100.30	114.42	15	2
4	A	363	PX4	O7-C7-C6	2.78	118.48	108.40	3	10
4	A	378	PX4	O6-C9-C10	2.78	112.88	123.73	19	3
4	A	413	PX4	O3-C1-C2	2.78	123.80	109.16	2	4
4	A	426	PX4	C4-N1-C2	2.78	121.31	109.92	9	6
4	A	323	PX4	C7-O7-C23	2.78	124.64	117.79	4	2
4	A	367	PX4	C31-C30-C29	2.78	100.31	114.42	16	4
4	A	380	PX4	O7-C7-C6	2.78	118.47	108.40	15	5
4	A	381	PX4	C11-C10-C9	2.78	103.51	113.62	18	4
4	A	389	PX4	C33-C32-C31	2.78	100.31	114.42	1	2
4	A	394	PX4	O4-P1-O2	2.78	119.93	109.07	17	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	319	PX4	O7-C23-O8	2.78	116.99	123.70	8	5
4	A	320	PX4	O7-C7-C8	2.78	118.46	108.40	19	7
4	A	420	PX4	C17-C16-C15	2.78	100.31	114.42	5	1
4	A	336	PX4	C16-C15-C14	2.78	100.33	114.42	6	1
4	A	356	PX4	C13-C12-C11	2.78	100.33	114.42	15	2
4	A	421	PX4	C4-N1-C3	2.78	101.83	108.97	17	5
4	A	319	PX4	O1-P1-O4	2.78	120.63	107.75	18	2
4	A	368	PX4	O1-P1-O4	2.78	120.64	107.75	20	2
4	A	386	PX4	C34-C33-C32	2.78	100.33	114.42	15	2
4	A	389	PX4	C26-C25-C24	2.78	103.21	113.19	9	1
4	A	369	PX4	O1-P1-O2	2.77	125.95	112.24	13	11
4	A	371	PX4	C16-C15-C14	2.78	100.34	114.42	7	1
4	A	380	PX4	O1-P1-O2	2.77	125.96	112.24	4	6
4	A	423	PX4	C5-N1-C4	2.78	116.11	108.97	6	3
4	A	325	PX4	C4-N1-C2	2.77	121.27	109.92	7	2
4	A	364	PX4	C26-C25-C24	2.77	103.22	113.19	18	2
4	A	336	PX4	C5-N1-C2	2.77	121.25	109.92	2	2
4	A	356	PX4	C11-C10-C9	2.77	103.54	113.62	5	4
4	A	327	PX4	O7-C7-C6	2.77	118.42	108.40	11	6
4	A	330	PX4	C8-O5-C9	2.77	106.87	117.12	8	4
4	A	332	PX4	C4-N1-C2	2.77	121.25	109.92	5	1
4	A	341	PX4	C4-N1-C3	2.77	116.09	108.97	10	3
4	A	386	PX4	O1-P1-O4	2.77	120.61	107.75	20	5
4	A	409	PX4	C4-N1-C2	2.77	121.25	109.92	4	2
4	A	418	PX4	C11-C10-C9	2.77	103.55	113.62	20	2
4	A	332	PX4	O5-C9-C10	2.77	120.59	111.91	18	3
4	A	400	PX4	C30-C29-C28	2.77	100.37	114.42	8	2
4	A	325	PX4	C1-C2-N1	2.77	125.02	115.78	2	4
4	A	330	PX4	C5-N1-C2	2.77	98.60	109.92	7	2
4	A	347	PX4	C17-C16-C15	2.77	100.38	114.42	8	1
4	A	367	PX4	O1-P1-O4	2.77	120.59	107.75	14	2
4	A	379	PX4	C5-N1-C3	2.77	101.86	108.97	10	5
4	A	306	PX4	C32-C31-C30	2.76	100.40	114.42	1	2
4	A	308	PX4	O5-C9-O6	2.76	116.62	123.59	11	2
4	A	325	PX4	C32-C31-C30	2.76	100.40	114.42	20	3
4	A	340	PX4	C11-C10-C9	2.76	103.57	113.62	16	2
4	A	390	PX4	C5-N1-C2	2.76	98.61	109.92	12	3
4	A	334	PX4	C26-C25-C24	2.76	103.26	113.19	15	4
4	A	395	PX4	C5-N1-C3	2.76	101.87	108.97	3	2
4	A	331	PX4	C31-C30-C29	2.76	100.41	114.42	20	4
4	A	335	PX4	C16-C15-C14	2.76	128.44	114.42	9	6

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	335	PX4	C28-C27-C26	2.76	100.41	114.42	20	2
4	A	414	PX4	O1-P1-O4	2.76	120.57	107.75	1	2
4	A	423	PX4	O5-C9-C10	2.76	120.58	111.91	9	3
4	A	337	PX4	O5-C9-C10	2.76	120.57	111.91	3	3
4	A	340	PX4	O7-C23-O8	2.76	117.03	123.70	4	5
4	A	416	PX4	C16-C15-C14	2.76	100.41	114.42	17	1
4	A	399	PX4	C34-C33-C32	2.76	100.42	114.42	18	2
4	A	306	PX4	C30-C29-C28	2.76	100.43	114.42	11	2
4	A	307	PX4	C5-N1-C4	2.76	101.89	108.97	14	4
4	A	313	PX4	C4-N1-C3	2.76	101.89	108.97	6	2
4	A	315	PX4	C30-C29-C28	2.76	100.43	114.42	1	5
4	A	319	PX4	C13-C12-C11	2.76	100.44	114.42	20	2
4	A	349	PX4	C20-C19-C18	2.76	100.43	114.42	2	2
4	A	372	PX4	C8-O5-C9	2.76	106.91	117.12	19	2
4	A	390	PX4	C28-C27-C26	2.76	100.43	114.42	6	1
4	A	423	PX4	O1-P1-O4	2.75	120.54	107.75	18	2
4	A	425	PX4	C8-O5-C9	2.76	106.92	117.12	7	2
4	A	325	PX4	C33-C32-C31	2.75	100.44	114.42	10	3
4	A	347	PX4	C3-N1-C2	2.75	121.18	109.92	3	2
4	A	384	PX4	C4-N1-C2	2.75	121.18	109.92	7	2
4	A	386	PX4	C5-N1-C3	2.75	116.05	108.97	13	2
4	A	423	PX4	C1-C2-N1	2.75	124.97	115.78	20	4
4	A	426	PX4	O5-C9-O6	2.75	116.64	123.59	8	4
4	A	337	PX4	C3-N1-C2	2.75	98.66	109.92	3	2
4	A	338	PX4	O1-P1-O3	2.75	94.97	107.75	7	2
4	A	338	PX4	O7-C23-O8	2.75	117.06	123.70	5	5
4	A	346	PX4	C32-C31-C30	2.75	100.46	114.42	7	4
4	A	369	PX4	C32-C31-C30	2.75	100.46	114.42	18	4
4	A	344	PX4	O5-C9-C10	2.75	120.53	111.91	4	4
4	A	347	PX4	O8-C23-C24	2.75	113.00	123.73	15	2
4	A	378	PX4	C13-C12-C11	2.75	100.46	114.42	3	3
4	A	429	PX4	C34-C33-C32	2.75	100.46	114.42	10	1
4	A	353	PX4	C18-C17-C16	2.75	100.47	114.42	14	3
4	A	369	PX4	C3-N1-C2	2.75	121.16	109.92	2	2
4	A	324	PX4	O6-C9-C10	2.75	113.02	123.73	14	3
4	A	313	PX4	O1-P1-O4	2.74	120.49	107.75	18	2
4	A	349	PX4	C14-C13-C12	2.74	100.49	114.42	6	1
4	A	393	PX4	C25-C24-C23	2.74	103.64	113.62	10	1
4	A	413	PX4	C27-C26-C25	2.75	100.48	114.42	12	2
4	A	337	PX4	O5-C9-O6	2.74	116.67	123.59	12	5
4	A	351	PX4	C28-C27-C26	2.74	100.49	114.42	9	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	408	PX4	C3-N1-C2	2.74	121.14	109.92	8	1
4	A	422	PX4	C32-C31-C30	2.74	100.49	114.42	1	1
4	A	334	PX4	C19-C18-C17	2.74	100.50	114.42	1	1
4	A	371	PX4	C27-C26-C25	2.74	100.50	114.42	5	3
4	A	405	PX4	C26-C25-C24	2.74	103.33	113.19	1	4
4	A	383	PX4	C29-C28-C27	2.74	100.51	114.42	14	4
4	A	420	PX4	C5-N1-C2	2.74	98.69	109.92	7	1
4	A	360	PX4	C19-C18-C17	2.74	100.51	114.42	9	2
4	A	364	PX4	O1-P1-O3	2.74	95.02	107.75	15	3
4	A	393	PX4	O1-P1-O4	2.74	120.47	107.75	11	3
4	A	414	PX4	C3-N1-C2	2.74	121.12	109.92	8	2
4	A	370	PX4	C17-C16-C15	2.74	100.53	114.42	3	2
4	A	375	PX4	C1-C2-N1	2.74	124.91	115.78	15	5
4	A	376	PX4	C32-C31-C30	2.74	100.53	114.42	2	2
4	A	396	PX4	C28-C27-C26	2.74	100.53	114.42	6	2
4	A	419	PX4	C5-N1-C4	2.74	101.94	108.97	2	4
4	A	314	PX4	C32-C31-C30	2.74	100.54	114.42	1	2
4	A	315	PX4	C14-C13-C12	2.74	100.54	114.42	4	1
4	A	351	PX4	C34-C33-C32	2.74	100.54	114.42	13	3
4	A	354	PX4	C29-C28-C27	2.74	100.54	114.42	11	1
4	A	376	PX4	C12-C11-C10	2.74	103.36	113.19	16	2
4	A	362	PX4	O7-C7-C8	2.73	118.30	108.40	8	4
4	A	401	PX4	O3-P1-O2	2.73	98.39	109.07	18	4
4	A	328	PX4	C18-C17-C16	2.73	100.56	114.42	5	2
4	A	372	PX4	O7-C7-C6	2.73	118.29	108.40	13	5
4	A	404	PX4	C28-C27-C26	2.73	100.55	114.42	3	1
4	A	396	PX4	C25-C24-C23	2.73	103.69	113.62	16	4
4	A	391	PX4	C16-C15-C14	2.73	100.56	114.42	9	2
4	A	407	PX4	O1-P1-O2	2.73	125.74	112.24	2	5
4	A	419	PX4	C14-C13-C12	2.73	100.56	114.42	12	2
4	A	334	PX4	O1-P1-O4	2.73	120.42	107.75	9	3
4	A	424	PX4	C11-C10-C9	2.73	123.55	113.62	9	2
4	A	337	PX4	C19-C18-C17	2.73	100.58	114.42	11	1
4	A	332	PX4	C11-C10-C9	2.73	103.70	113.62	3	3
4	A	343	PX4	O1-P1-O4	2.73	120.41	107.75	10	2
4	A	347	PX4	O5-C9-C10	2.73	120.46	111.91	17	5
4	A	376	PX4	O3-C1-C2	2.73	123.50	109.16	5	5
4	A	391	PX4	C15-C14-C13	2.73	100.58	114.42	5	3
4	A	375	PX4	C15-C14-C13	2.72	100.59	114.42	16	5
4	A	387	PX4	C13-C12-C11	2.73	100.59	114.42	20	2
4	A	430	PX4	C15-C14-C13	2.73	100.59	114.42	5	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
5	A	431	C3S	O3-S1-O4	2.73	117.97	108.49	3	1
4	A	309	PX4	C1-C2-N1	2.72	124.88	115.78	1	5
4	A	359	PX4	C11-C10-C9	2.72	103.71	113.62	14	2
4	A	311	PX4	C17-C16-C15	2.72	100.60	114.42	3	1
4	A	308	PX4	C25-C24-C23	2.72	103.72	113.62	7	2
4	A	312	PX4	C3-N1-C2	2.72	98.78	109.92	17	5
4	A	319	PX4	C4-N1-C2	2.72	121.06	109.92	11	2
4	A	340	PX4	C12-C11-C10	2.72	103.40	113.19	12	2
4	A	391	PX4	O4-P1-O2	2.72	119.71	109.07	1	2
4	A	414	PX4	O5-C9-C10	2.72	120.45	111.91	1	3
4	A	415	PX4	C25-C24-C23	2.72	123.52	113.62	7	3
4	A	384	PX4	O3-C1-C2	2.72	123.47	109.16	16	3
4	A	399	PX4	C5-N1-C2	2.72	98.79	109.92	16	1
4	A	405	PX4	O3-P1-O2	2.72	98.44	109.07	3	3
4	A	423	PX4	C25-C24-C23	2.72	103.73	113.62	15	1
4	A	310	PX4	C33-C32-C31	2.72	100.63	114.42	2	1
4	A	313	PX4	C11-C10-C9	2.72	103.74	113.62	19	3
4	A	426	PX4	C33-C32-C31	2.72	100.62	114.42	6	4
4	A	320	PX4	C5-N1-C3	2.72	101.99	108.97	4	3
4	A	324	PX4	C12-C11-C10	2.72	103.43	113.19	6	2
4	A	428	PX4	C14-C13-C12	2.72	100.63	114.42	11	1
4	A	391	PX4	C5-N1-C3	2.72	101.99	108.97	18	2
4	A	412	PX4	O8-C23-C24	2.72	113.14	123.73	8	3
4	A	429	PX4	C8-O5-C9	2.72	107.07	117.12	3	3
4	A	312	PX4	C11-C10-C9	2.71	103.75	113.62	13	3
4	A	326	PX4	C29-C28-C27	2.71	100.66	114.42	7	3
4	A	334	PX4	C16-C15-C14	2.71	100.65	114.42	3	3
4	A	342	PX4	O1-P1-O3	2.71	120.35	107.75	20	2
4	A	353	PX4	O8-C23-C24	2.71	113.15	123.73	7	1
4	A	368	PX4	C29-C28-C27	2.71	100.65	114.42	17	2
4	A	333	PX4	C5-N1-C2	2.71	98.82	109.92	15	1
4	A	373	PX4	C17-C16-C15	2.71	100.66	114.42	3	1
4	A	387	PX4	C1-C2-N1	2.71	124.83	115.78	16	5
4	A	338	PX4	O6-C9-C10	2.71	113.17	123.73	14	3
4	A	341	PX4	C32-C31-C30	2.71	100.67	114.42	5	1
4	A	369	PX4	C13-C12-C11	2.71	100.68	114.42	11	2
4	A	388	PX4	C12-C11-C10	2.71	103.46	113.19	12	2
4	A	399	PX4	C5-N1-C3	2.71	102.01	108.97	9	2
4	A	407	PX4	O7-C7-C6	2.71	118.20	108.40	12	5
4	A	427	PX4	C18-C17-C16	2.71	100.68	114.42	8	1
4	A	335	PX4	C26-C25-C24	2.70	103.47	113.19	4	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	335	PX4	O1-P1-O4	2.71	120.31	107.75	5	3
4	A	345	PX4	C26-C25-C24	2.71	103.46	113.19	1	2
4	A	346	PX4	O3-C1-C2	2.71	123.39	109.16	6	4
4	A	366	PX4	C27-C26-C25	2.71	100.69	114.42	19	2
4	A	368	PX4	C12-C11-C10	2.71	103.47	113.19	6	3
4	A	369	PX4	C8-O5-C9	2.70	107.11	117.12	17	4
4	A	391	PX4	C30-C29-C28	2.70	100.70	114.42	10	2
4	A	339	PX4	C14-C13-C12	2.70	100.71	114.42	11	3
4	A	367	PX4	C11-C10-C9	2.70	103.79	113.62	10	3
4	A	334	PX4	C3-N1-C2	2.70	120.96	109.92	12	1
4	A	410	PX4	C15-C14-C13	2.70	100.72	114.42	8	2
4	A	417	PX4	C4-N1-C3	2.70	115.92	108.97	7	4
4	A	429	PX4	C17-C16-C15	2.70	100.72	114.42	10	1
4	A	412	PX4	C19-C18-C17	2.70	100.73	114.42	12	1
4	A	308	PX4	O3-C1-C2	2.70	123.34	109.16	15	2
4	A	348	PX4	O1-P1-O3	2.70	120.27	107.75	1	4
4	A	348	PX4	C8-O5-C9	2.70	107.14	117.12	9	1
4	A	367	PX4	O3-P1-O2	2.70	98.53	109.07	8	4
4	A	430	PX4	C7-O7-C23	2.70	124.43	117.79	12	4
4	A	343	PX4	C5-N1-C2	2.69	98.89	109.92	2	1
4	A	389	PX4	C25-C24-C23	2.69	103.82	113.62	11	3
4	A	333	PX4	C27-C26-C25	2.69	100.75	114.42	15	2
4	A	357	PX4	C14-C13-C12	2.69	100.75	114.42	3	3
4	A	343	PX4	C31-C30-C29	2.69	100.76	114.42	14	3
4	A	367	PX4	C20-C19-C18	2.69	100.75	114.42	16	2
4	A	378	PX4	C26-C25-C24	2.69	103.51	113.19	18	3
4	A	387	PX4	C27-C26-C25	2.69	100.76	114.42	2	3
4	A	393	PX4	C11-C10-C9	2.69	103.83	113.62	10	3
4	A	420	PX4	C14-C13-C12	2.69	100.75	114.42	1	1
4	A	361	PX4	C13-C12-C11	2.69	100.77	114.42	9	1
4	A	386	PX4	C26-C25-C24	2.69	103.52	113.19	6	2
4	A	401	PX4	C31-C30-C29	2.69	100.77	114.42	9	4
4	A	347	PX4	O4-P1-O2	2.69	119.57	109.07	17	3
4	A	348	PX4	C31-C30-C29	2.69	100.78	114.42	18	5
4	A	353	PX4	C8-O5-C9	2.69	107.17	117.12	7	3
4	A	357	PX4	C11-C10-C9	2.69	103.85	113.62	1	4
4	A	365	PX4	C26-C25-C24	2.69	103.53	113.19	12	2
4	A	323	PX4	C25-C24-C23	2.69	103.85	113.62	12	2
4	A	372	PX4	C19-C18-C17	2.69	100.79	114.42	12	2
4	A	314	PX4	O7-C23-O8	2.68	117.21	123.70	7	4
4	A	323	PX4	C28-C27-C26	2.68	100.80	114.42	14	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	368	PX4	C25-C24-C23	2.68	103.86	113.62	3	1
4	A	368	PX4	O4-P1-O2	2.68	98.58	109.07	6	1
4	A	373	PX4	O8-C23-C24	2.68	113.26	123.73	12	2
4	A	422	PX4	O3-C1-C2	2.69	123.28	109.16	3	2
4	A	335	PX4	C15-C14-C13	2.68	100.80	114.42	16	2
4	A	389	PX4	C8-O5-C9	2.68	107.18	117.12	20	2
4	A	390	PX4	O1-P1-O2	2.68	125.51	112.24	12	6
4	A	346	PX4	C27-C26-C25	2.68	100.80	114.42	2	2
4	A	395	PX4	C13-C12-C11	2.68	100.80	114.42	5	3
4	A	405	PX4	O1-P1-O3	2.68	95.28	107.75	20	6
4	A	384	PX4	C1-C2-N1	2.68	124.73	115.78	1	5
4	A	394	PX4	C1-C2-N1	2.68	124.73	115.78	8	4
4	A	422	PX4	C34-C33-C32	2.68	100.81	114.42	11	3
4	A	331	PX4	O4-P1-O2	2.68	119.54	109.07	8	2
4	A	348	PX4	C27-C26-C25	2.68	100.82	114.42	14	3
4	A	351	PX4	O7-C23-O8	2.68	117.22	123.70	6	3
4	A	365	PX4	C7-O7-C23	2.68	111.19	117.79	6	5
4	A	314	PX4	C25-C24-C23	2.68	103.88	113.62	5	3
4	A	309	PX4	C11-C10-C9	2.68	103.88	113.62	1	2
4	A	371	PX4	O1-P1-O4	2.68	120.19	107.75	20	3
4	A	390	PX4	C31-C30-C29	2.68	100.82	114.42	7	3
4	A	374	PX4	C5-N1-C2	2.68	120.88	109.92	1	1
4	A	390	PX4	C1-C2-N1	2.68	124.73	115.78	18	4
4	A	403	PX4	C14-C13-C12	2.68	100.83	114.42	12	2
4	A	403	PX4	C12-C11-C10	2.68	103.56	113.19	6	1
4	A	327	PX4	O5-C9-C10	2.68	120.31	111.91	4	4
4	A	429	PX4	O1-P1-O4	2.68	95.30	107.75	12	3
4	A	334	PX4	O4-P1-O2	2.68	119.53	109.07	5	1
4	A	333	PX4	O4-P1-O2	2.68	98.61	109.07	8	3
4	A	345	PX4	C19-C18-C17	2.68	100.84	114.42	2	3
4	A	349	PX4	C1-C2-N1	2.68	124.72	115.78	14	2
4	A	361	PX4	C29-C28-C27	2.68	100.84	114.42	10	3
4	A	330	PX4	C33-C32-C31	2.67	100.85	114.42	1	5
4	A	343	PX4	C4-N1-C2	2.67	120.86	109.92	2	4
4	A	334	PX4	C17-C16-C15	2.67	100.86	114.42	3	3
4	A	379	PX4	C4-N1-C3	2.67	102.10	108.97	14	2
4	A	420	PX4	C18-C17-C16	2.67	100.85	114.42	17	2
4	A	397	PX4	C5-N1-C4	2.67	102.11	108.97	19	6
4	A	307	PX4	C8-O5-C9	2.67	107.23	117.12	5	4
4	A	318	PX4	C8-O5-C9	2.67	107.23	117.12	7	3
4	A	337	PX4	C32-C31-C30	2.67	100.87	114.42	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	342	PX4	C15-C14-C13	2.67	100.87	114.42	9	2
4	A	346	PX4	C8-O5-C9	2.67	107.23	117.12	3	3
4	A	358	PX4	O1-P1-O2	2.67	125.44	112.24	3	13
4	A	361	PX4	O7-C7-C8	2.67	118.07	108.40	10	5
4	A	399	PX4	C25-C24-C23	2.67	103.91	113.62	16	3
4	A	412	PX4	O3-P1-O2	2.67	119.50	109.07	7	5
4	A	344	PX4	C30-C29-C28	2.67	100.88	114.42	13	1
4	A	381	PX4	O1-P1-O2	2.67	125.43	112.24	7	9
4	A	390	PX4	C11-C10-C9	2.67	103.92	113.62	10	3
4	A	395	PX4	C29-C28-C27	2.67	100.88	114.42	14	2
4	A	412	PX4	C31-C30-C29	2.67	100.87	114.42	10	3
4	A	418	PX4	C15-C14-C13	2.67	100.87	114.42	17	2
4	A	328	PX4	C33-C32-C31	2.67	100.89	114.42	16	4
4	A	393	PX4	C5-N1-C4	2.67	115.83	108.97	17	2
4	A	406	PX4	C27-C26-C25	2.67	100.88	114.42	15	2
4	A	311	PX4	C34-C33-C32	2.66	100.90	114.42	15	1
4	A	317	PX4	C29-C28-C27	2.67	100.89	114.42	18	1
4	A	329	PX4	C3-N1-C2	2.67	99.01	109.92	6	2
4	A	355	PX4	C5-N1-C4	2.67	102.12	108.97	7	1
4	A	359	PX4	C30-C29-C28	2.67	100.89	114.42	1	4
4	A	428	PX4	C13-C12-C11	2.67	100.89	114.42	16	1
4	A	319	PX4	C20-C19-C18	2.66	100.90	114.42	4	2
4	A	371	PX4	C1-C2-N1	2.67	124.68	115.78	15	2
4	A	400	PX4	C17-C16-C15	2.66	100.90	114.42	11	2
4	A	407	PX4	C32-C31-C30	2.67	100.89	114.42	20	4
4	A	418	PX4	C16-C15-C14	2.67	100.89	114.42	12	1
4	A	340	PX4	C25-C24-C23	2.66	123.31	113.62	11	3
4	A	426	PX4	O4-P1-O2	2.66	119.48	109.07	11	3
4	A	306	PX4	C3-N1-C2	2.66	120.81	109.92	8	2
4	A	336	PX4	C15-C14-C13	2.66	100.91	114.42	10	5
4	A	339	PX4	O5-C9-O6	2.66	116.87	123.59	4	2
4	A	339	PX4	C12-C11-C10	2.66	103.62	113.19	11	1
4	A	374	PX4	C14-C13-C12	2.66	100.91	114.42	19	1
4	A	430	PX4	O1-P1-O3	2.66	95.37	107.75	7	2
4	A	363	PX4	C16-C15-C14	2.66	100.91	114.42	6	1
4	A	391	PX4	C33-C32-C31	2.66	100.91	114.42	7	5
4	A	395	PX4	C33-C32-C31	2.66	100.92	114.42	2	3
4	A	404	PX4	C27-C26-C25	2.66	127.94	114.42	9	1
4	A	331	PX4	O8-C23-C24	2.66	113.35	123.73	9	2
4	A	413	PX4	C30-C29-C28	2.66	100.92	114.42	13	1
4	A	430	PX4	C26-C25-C24	2.66	103.62	113.19	5	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	339	PX4	C33-C32-C31	2.66	100.92	114.42	6	2
4	A	356	PX4	C5-N1-C4	2.66	115.81	108.97	2	2
4	A	376	PX4	C11-C10-C9	2.66	123.29	113.62	19	7
4	A	403	PX4	O1-P1-O2	2.66	125.38	112.24	14	8
4	A	420	PX4	O4-P1-O2	2.66	119.46	109.07	11	2
4	A	317	PX4	C5-N1-C2	2.66	120.78	109.92	19	2
4	A	331	PX4	C12-C11-C10	2.66	103.64	113.19	8	5
4	A	331	PX4	C19-C18-C17	2.66	100.94	114.42	16	2
4	A	349	PX4	C16-C15-C14	2.66	100.94	114.42	2	3
4	A	398	PX4	C4-N1-C2	2.66	120.78	109.92	2	1
4	A	398	PX4	C12-C11-C10	2.66	103.64	113.19	8	2
4	A	410	PX4	C1-C2-N1	2.66	124.65	115.78	7	5
4	A	426	PX4	O7-C7-C6	2.66	118.02	108.40	4	3
4	A	385	PX4	O1-P1-O3	2.65	120.08	107.75	8	2
4	A	418	PX4	O5-C9-C10	2.65	120.24	111.91	7	2
4	A	427	PX4	O6-C9-C10	2.66	113.37	123.73	5	1
4	A	329	PX4	O4-P1-O2	2.65	119.44	109.07	3	2
4	A	355	PX4	C11-C10-C9	2.65	123.27	113.62	11	3
4	A	365	PX4	C27-C26-C25	2.65	100.95	114.42	16	1
4	A	389	PX4	O1-P1-O3	2.65	95.42	107.75	20	2
4	A	425	PX4	C13-C12-C11	2.65	100.95	114.42	10	2
4	A	427	PX4	C28-C27-C26	2.65	100.95	114.42	9	2
4	A	405	PX4	C15-C14-C13	2.65	100.97	114.42	17	1
4	A	429	PX4	C32-C31-C30	2.65	100.96	114.42	19	1
4	A	309	PX4	C15-C14-C13	2.65	100.97	114.42	12	3
4	A	310	PX4	C3-N1-C2	2.65	120.76	109.92	9	2
4	A	325	PX4	O3-C1-C2	2.65	123.10	109.16	11	2
4	A	330	PX4	C18-C17-C16	2.65	100.97	114.42	20	3
4	A	397	PX4	C18-C17-C16	2.65	100.97	114.42	13	2
4	A	406	PX4	C4-N1-C3	2.65	102.16	108.97	9	1
4	A	430	PX4	C14-C13-C12	2.65	100.97	114.42	6	1
4	A	353	PX4	C20-C19-C18	2.65	100.98	114.42	5	3
4	A	375	PX4	C4-N1-C2	2.65	120.75	109.92	17	1
4	A	405	PX4	C5-N1-C4	2.65	102.16	108.97	10	5
4	A	309	PX4	O7-C7-C6	2.65	117.99	108.40	14	5
4	A	319	PX4	C32-C31-C30	2.65	100.98	114.42	4	1
4	A	391	PX4	C17-C16-C15	2.65	100.98	114.42	1	1
4	A	374	PX4	C30-C29-C28	2.65	100.99	114.42	8	1
4	A	395	PX4	C12-C11-C10	2.65	103.67	113.19	9	6
4	A	395	PX4	C27-C26-C25	2.65	100.99	114.42	11	1
4	A	405	PX4	C13-C12-C11	2.65	100.99	114.42	20	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	414	PX4	C25-C24-C23	2.65	103.99	113.62	18	2
4	A	420	PX4	C1-C2-N1	2.65	124.62	115.78	8	3
4	A	345	PX4	C5-N1-C2	2.65	120.74	109.92	8	1
4	A	380	PX4	O4-P1-O2	2.65	119.40	109.07	9	2
4	A	382	PX4	C4-N1-C2	2.65	120.74	109.92	4	1
4	A	414	PX4	C28-C27-C26	2.65	100.99	114.42	3	2
4	A	419	PX4	C16-C15-C14	2.65	100.99	114.42	16	2
4	A	428	PX4	C5-N1-C4	2.65	102.17	108.97	8	6
4	A	308	PX4	C20-C19-C18	2.64	101.00	114.42	14	1
4	A	316	PX4	C3-N1-C2	2.64	120.73	109.92	16	2
4	A	367	PX4	C19-C18-C17	2.64	101.01	114.42	14	2
4	A	373	PX4	C33-C32-C31	2.64	101.00	114.42	1	1
4	A	378	PX4	C8-O5-C9	2.64	107.34	117.12	3	1
4	A	396	PX4	O5-C9-O6	2.64	116.92	123.59	9	3
4	A	409	PX4	O1-P1-O2	2.64	125.30	112.24	7	8
4	A	310	PX4	C18-C17-C16	2.64	101.02	114.42	15	2
4	A	328	PX4	C20-C19-C18	2.64	101.02	114.42	4	3
4	A	420	PX4	C16-C15-C14	2.64	101.01	114.42	1	1
4	A	323	PX4	C14-C13-C12	2.64	101.03	114.42	7	3
4	A	361	PX4	O3-C1-C2	2.64	123.05	109.16	8	3
4	A	416	PX4	C20-C19-C18	2.64	101.02	114.42	13	4
4	A	427	PX4	C5-N1-C3	2.64	102.18	108.97	16	5
4	A	350	PX4	C31-C30-C29	2.64	101.03	114.42	5	2
4	A	363	PX4	C29-C28-C27	2.64	101.03	114.42	14	1
4	A	386	PX4	C32-C31-C30	2.64	101.02	114.42	1	2
4	A	386	PX4	C13-C12-C11	2.64	101.03	114.42	7	2
4	A	334	PX4	C5-N1-C3	2.64	102.19	108.97	1	2
4	A	335	PX4	C29-C28-C27	2.64	101.03	114.42	18	1
4	A	339	PX4	O3-C1-C2	2.64	123.03	109.16	5	2
4	A	339	PX4	O7-C7-C8	2.64	117.95	108.40	15	3
4	A	414	PX4	C19-C18-C17	2.64	101.03	114.42	13	1
4	A	306	PX4	C31-C30-C29	2.64	101.04	114.42	1	2
4	A	322	PX4	C4-N1-C3	2.64	102.20	108.97	3	7
4	A	365	PX4	C22-C21-C20	2.64	93.41	113.42	7	1
4	A	389	PX4	C12-C11-C10	2.64	103.72	113.19	10	5
4	A	398	PX4	O6-C9-C10	2.64	113.45	123.73	6	1
4	A	404	PX4	C1-C2-N1	2.64	124.58	115.78	2	5
4	A	305	PX4	C5-N1-C2	2.63	120.69	109.92	13	1
4	A	318	PX4	C13-C12-C11	2.63	101.05	114.42	3	3
4	A	318	PX4	C14-C13-C12	2.63	101.06	114.42	17	1
4	A	322	PX4	C8-O5-C9	2.63	107.37	117.12	2	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	340	PX4	O1-P1-O4	2.63	119.98	107.75	9	2
4	A	358	PX4	C18-C17-C16	2.63	101.05	114.42	14	2
4	A	413	PX4	C20-C19-C18	2.63	101.05	114.42	4	2
4	A	352	PX4	O1-P1-O3	2.63	95.52	107.75	1	5
4	A	410	PX4	C18-C17-C16	2.63	101.06	114.42	13	2
4	A	423	PX4	C5-N1-C3	2.63	102.20	108.97	4	5
4	A	367	PX4	C27-C26-C25	2.63	101.07	114.42	15	1
4	A	392	PX4	C4-N1-C3	2.63	115.74	108.97	7	5
4	A	423	PX4	C11-C10-C9	2.63	104.05	113.62	15	4
4	A	308	PX4	O4-P1-O2	2.63	98.79	109.07	2	2
4	A	309	PX4	C34-C33-C32	2.63	101.08	114.42	17	1
4	A	336	PX4	C32-C31-C30	2.63	101.08	114.42	2	1
4	A	398	PX4	O3-C1-C2	2.63	122.99	109.16	13	2
4	A	320	PX4	C19-C18-C17	2.63	101.08	114.42	17	1
4	A	321	PX4	O1-P1-O4	2.63	119.95	107.75	13	4
4	A	365	PX4	O6-C9-C10	2.63	113.48	123.73	8	2
4	A	415	PX4	C26-C25-C24	2.63	122.64	113.19	18	2
4	A	412	PX4	O6-C9-C10	2.63	113.48	123.73	6	4
4	A	425	PX4	C28-C27-C26	2.63	101.08	114.42	2	2
4	A	322	PX4	C33-C32-C31	2.63	101.09	114.42	18	2
4	A	318	PX4	C15-C14-C13	2.62	101.10	114.42	1	1
4	A	410	PX4	C5-N1-C2	2.63	99.17	109.92	3	1
4	A	323	PX4	C33-C32-C31	2.62	101.10	114.42	13	2
4	A	334	PX4	O6-C9-C10	2.62	113.50	123.73	17	1
4	A	395	PX4	C3-N1-C2	2.62	120.66	109.92	20	2
4	A	380	PX4	C16-C15-C14	2.62	101.11	114.42	20	2
4	A	341	PX4	C18-C17-C16	2.62	101.12	114.42	8	2
4	A	367	PX4	O8-C23-C24	2.62	113.51	123.73	4	1
4	A	371	PX4	C19-C18-C17	2.62	101.11	114.42	19	1
4	A	372	PX4	C13-C12-C11	2.62	101.11	114.42	10	3
4	A	401	PX4	C30-C29-C28	2.62	101.11	114.42	18	1
4	A	410	PX4	C33-C32-C31	2.62	101.11	114.42	15	2
4	A	316	PX4	C29-C28-C27	2.62	101.12	114.42	9	2
4	A	420	PX4	C8-O5-C9	2.62	107.42	117.12	3	2
4	A	345	PX4	O6-C9-C10	2.62	113.52	123.73	8	1
4	A	365	PX4	C33-C32-C31	2.62	101.13	114.42	15	2
4	A	397	PX4	C19-C18-C17	2.62	101.13	114.42	18	1
4	A	325	PX4	O1-P1-O2	2.62	125.18	112.24	3	11
4	A	407	PX4	C25-C24-C23	2.62	104.10	113.62	2	3
4	A	410	PX4	C11-C10-C9	2.62	104.10	113.62	20	4
4	A	328	PX4	O3-C1-C2	2.62	122.93	109.16	1	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	336	PX4	O1-P1-O3	2.62	95.59	107.75	11	2
4	A	365	PX4	O1-P1-O4	2.62	119.90	107.75	2	2
4	A	339	PX4	O3-P1-O2	2.62	98.85	109.07	4	4
4	A	340	PX4	C31-C30-C29	2.62	101.14	114.42	6	2
4	A	380	PX4	C20-C19-C18	2.62	101.14	114.42	20	1
4	A	408	PX4	O1-P1-O3	2.62	95.59	107.75	11	1
4	A	362	PX4	C5-N1-C2	2.61	99.22	109.92	8	1
4	A	406	PX4	C8-O5-C9	2.61	126.80	117.12	12	1
4	A	415	PX4	O4-P1-O2	2.61	119.28	109.07	15	2
4	A	428	PX4	C17-C16-C15	2.61	101.15	114.42	1	3
4	A	315	PX4	O7-C7-C6	2.61	117.86	108.40	5	6
4	A	319	PX4	C33-C32-C31	2.61	101.17	114.42	5	2
4	A	329	PX4	C20-C19-C18	2.61	101.16	114.42	5	1
4	A	353	PX4	O3-C1-C2	2.61	122.90	109.16	5	3
4	A	373	PX4	C5-N1-C4	2.61	102.26	108.97	5	2
4	A	389	PX4	O3-C1-C2	2.61	122.90	109.16	5	3
4	A	344	PX4	C32-C31-C30	2.61	101.17	114.42	7	1
4	A	358	PX4	C13-C12-C11	2.61	101.17	114.42	17	1
4	A	383	PX4	C4-N1-C3	2.61	102.26	108.97	1	3
4	A	403	PX4	C20-C19-C18	2.61	101.17	114.42	9	2
4	A	408	PX4	C12-C11-C10	2.61	103.80	113.19	3	1
4	A	414	PX4	C8-O5-C9	2.61	107.45	117.12	14	2
4	A	421	PX4	C4-N1-C2	2.61	99.23	109.92	14	3
4	A	425	PX4	C14-C13-C12	2.61	101.17	114.42	20	3
5	A	432	C3S	O4-S1-O2	2.61	122.70	112.22	14	4
5	A	436	C3S	C22-C20-C18	2.61	116.65	112.73	19	3
4	A	340	PX4	C5-N1-C2	2.61	120.59	109.92	10	1
4	A	330	PX4	C25-C24-C23	2.61	104.13	113.62	16	3
4	A	368	PX4	C4-N1-C3	2.61	102.27	108.97	13	5
4	A	369	PX4	C14-C13-C12	2.61	101.18	114.42	6	1
4	A	369	PX4	O1-P1-O4	2.61	119.86	107.75	14	1
4	A	387	PX4	O3-C1-C2	2.61	122.89	109.16	12	3
4	A	344	PX4	C31-C30-C29	2.61	101.19	114.42	15	2
4	A	316	PX4	C32-C31-C30	2.61	101.19	114.42	13	3
4	A	327	PX4	C14-C13-C12	2.61	101.19	114.42	13	1
4	A	404	PX4	C3-N1-C2	2.61	120.58	109.92	1	2
4	A	426	PX4	O1-P1-O4	2.61	119.85	107.75	7	2
4	A	348	PX4	C26-C25-C24	2.60	103.83	113.19	4	3
4	A	320	PX4	C11-C10-C9	2.60	104.15	113.62	9	2
4	A	321	PX4	C8-O5-C9	2.60	107.48	117.12	19	3
4	A	390	PX4	C5-N1-C3	2.60	102.28	108.97	8	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	405	PX4	C17-C16-C15	2.60	101.20	114.42	6	1
4	A	306	PX4	C20-C19-C18	2.60	101.21	114.42	17	2
4	A	408	PX4	C25-C24-C23	2.60	123.08	113.62	10	2
4	A	417	PX4	C32-C31-C30	2.60	101.21	114.42	2	2
4	A	309	PX4	C30-C29-C28	2.60	101.22	114.42	4	2
4	A	359	PX4	C25-C24-C23	2.60	104.16	113.62	15	5
4	A	413	PX4	C5-N1-C4	2.60	102.29	108.97	17	2
4	A	316	PX4	C4-N1-C2	2.60	120.55	109.92	19	2
4	A	322	PX4	C14-C13-C12	2.60	101.23	114.42	2	1
4	A	330	PX4	C34-C33-C32	2.60	101.24	114.42	1	1
4	A	330	PX4	O8-C23-C24	2.60	113.60	123.73	19	1
4	A	339	PX4	C4-N1-C3	2.60	102.29	108.97	14	3
4	A	355	PX4	C13-C12-C11	2.60	101.23	114.42	19	2
4	A	357	PX4	C12-C11-C10	2.60	103.85	113.19	2	2
4	A	387	PX4	C29-C28-C27	2.60	101.23	114.42	11	3
4	A	405	PX4	C19-C18-C17	2.60	101.23	114.42	5	2
4	A	398	PX4	C13-C12-C11	2.60	101.24	114.42	7	2
5	A	436	C3S	C40-C29-C38	2.60	116.56	111.71	12	1
4	A	352	PX4	C29-C28-C27	2.60	101.25	114.42	11	1
4	A	310	PX4	O5-C9-C10	2.59	120.05	111.91	9	4
4	A	310	PX4	O1-P1-O4	2.59	119.79	107.75	8	2
4	A	313	PX4	O7-C7-C8	2.59	117.79	108.40	17	7
4	A	314	PX4	O5-C9-O6	2.59	117.05	123.59	20	4
4	A	316	PX4	O1-P1-O4	2.59	119.79	107.75	13	3
4	A	325	PX4	C5-N1-C3	2.59	102.30	108.97	1	4
4	A	364	PX4	O5-C9-C10	2.59	120.05	111.91	10	3
4	A	409	PX4	C18-C17-C16	2.60	101.25	114.42	2	4
4	A	331	PX4	C5-N1-C3	2.59	102.31	108.97	1	1
4	A	396	PX4	C5-N1-C4	2.59	102.31	108.97	1	6
4	A	412	PX4	C28-C27-C26	2.59	101.26	114.42	16	1
4	A	422	PX4	C7-O7-C23	2.59	124.18	117.79	18	3
4	A	330	PX4	C11-C10-C9	2.59	123.05	113.62	18	2
4	A	350	PX4	C34-C33-C32	2.59	101.26	114.42	18	1
4	A	348	PX4	C20-C19-C18	2.59	101.27	114.42	11	2
4	A	402	PX4	C14-C13-C12	2.59	101.27	114.42	8	1
4	A	377	PX4	C31-C30-C29	2.59	101.27	114.42	3	2
4	A	383	PX4	C4-N1-C2	2.59	120.52	109.92	4	1
4	A	404	PX4	C4-N1-C2	2.59	99.31	109.92	20	3
4	A	419	PX4	C32-C31-C30	2.59	101.27	114.42	11	1
4	A	424	PX4	C32-C31-C30	2.59	101.27	114.42	19	3
4	A	353	PX4	C14-C13-C12	2.59	101.27	114.42	13	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	360	PX4	O4-P1-O2	2.59	119.19	109.07	8	1
4	A	312	PX4	O3-C1-C2	2.59	122.78	109.16	18	2
4	A	325	PX4	O8-C23-C24	2.59	113.63	123.73	15	2
4	A	331	PX4	C29-C28-C27	2.59	101.28	114.42	4	3
4	A	362	PX4	C3-N1-C2	2.59	120.51	109.92	18	3
4	A	409	PX4	C34-C33-C32	2.59	101.28	114.42	14	3
4	A	312	PX4	O8-C23-C24	2.59	113.64	123.73	10	1
4	A	312	PX4	O1-P1-O3	2.59	95.73	107.75	15	1
4	A	318	PX4	C26-C25-C24	2.59	103.89	113.19	18	2
4	A	322	PX4	C20-C19-C18	2.59	101.29	114.42	15	2
4	A	323	PX4	C31-C30-C29	2.59	101.29	114.42	11	1
4	A	428	PX4	C5-N1-C2	2.59	120.50	109.92	14	1
4	A	430	PX4	O3-P1-O2	2.59	98.96	109.07	1	2
4	A	307	PX4	C28-C27-C26	2.58	101.30	114.42	5	3
4	A	316	PX4	O1-P1-O3	2.58	95.74	107.75	18	3
4	A	324	PX4	C33-C32-C31	2.59	101.30	114.42	19	1
4	A	394	PX4	C3-N1-C2	2.59	99.34	109.92	19	3
4	A	349	PX4	C30-C29-C28	2.58	101.31	114.42	18	3
4	A	383	PX4	C31-C30-C29	2.58	101.31	114.42	16	5
4	A	390	PX4	C30-C29-C28	2.58	101.32	114.42	2	3
4	A	399	PX4	C3-N1-C2	2.58	120.48	109.92	17	4
4	A	406	PX4	C28-C27-C26	2.58	101.31	114.42	5	2
4	A	309	PX4	C16-C15-C14	2.58	101.32	114.42	16	1
4	A	326	PX4	O3-C1-C2	2.58	122.74	109.16	6	1
4	A	331	PX4	C15-C14-C13	2.58	101.31	114.42	12	2
4	A	362	PX4	C30-C29-C28	2.58	101.32	114.42	7	2
4	A	367	PX4	C13-C12-C11	2.58	101.31	114.42	7	4
4	A	318	PX4	C32-C31-C30	2.58	101.32	114.42	4	3
4	A	310	PX4	C19-C18-C17	2.58	101.33	114.42	13	2
4	A	324	PX4	C28-C27-C26	2.58	101.33	114.42	20	3
4	A	371	PX4	C31-C30-C29	2.58	101.32	114.42	18	3
4	A	406	PX4	O3-P1-O2	2.58	98.99	109.07	9	1
4	A	411	PX4	C11-C10-C9	2.58	104.24	113.62	7	3
4	A	308	PX4	C19-C18-C17	2.58	101.34	114.42	8	1
4	A	337	PX4	C15-C14-C13	2.58	101.33	114.42	9	1
4	A	337	PX4	C31-C30-C29	2.58	101.33	114.42	20	1
4	A	339	PX4	C27-C26-C25	2.58	101.33	114.42	4	3
4	A	347	PX4	C18-C17-C16	2.58	101.34	114.42	11	3
4	A	362	PX4	O1-P1-O4	2.58	119.71	107.75	4	2
4	A	373	PX4	C25-C24-C23	2.58	104.25	113.62	17	3
4	A	394	PX4	C15-C14-C13	2.58	101.34	114.42	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	375	PX4	O5-C9-C10	2.58	103.82	111.91	4	5
4	A	387	PX4	C5-N1-C2	2.58	120.46	109.92	15	1
4	A	310	PX4	C31-C30-C29	2.57	101.36	114.42	10	1
4	A	313	PX4	C16-C15-C14	2.57	101.35	114.42	5	2
4	A	323	PX4	O7-C7-C8	2.57	117.72	108.40	4	5
4	A	337	PX4	C1-C2-N1	2.58	124.38	115.78	4	4
4	A	413	PX4	C31-C30-C29	2.58	101.35	114.42	7	1
4	A	396	PX4	C12-C11-C10	2.58	103.93	113.19	18	4
4	A	407	PX4	C28-C27-C26	2.57	101.35	114.42	3	2
4	A	427	PX4	C31-C30-C29	2.57	101.36	114.42	18	4
4	A	314	PX4	C8-O5-C9	2.57	126.65	117.12	9	1
4	A	348	PX4	C1-C2-N1	2.57	124.37	115.78	7	2
4	A	369	PX4	C31-C30-C29	2.57	101.36	114.42	12	1
4	A	412	PX4	O7-C7-C6	2.57	117.72	108.40	12	6
4	A	412	PX4	C26-C25-C24	2.57	103.94	113.19	18	3
4	A	398	PX4	C11-C10-C9	2.57	104.27	113.62	16	2
4	A	420	PX4	O3-C1-C2	2.57	122.68	109.16	10	2
4	A	420	PX4	C3-N1-C2	2.57	120.44	109.92	7	1
4	A	423	PX4	C12-C11-C10	2.57	103.94	113.19	5	2
4	A	321	PX4	O8-C23-C24	2.57	113.70	123.73	20	2
4	A	355	PX4	C15-C14-C13	2.57	101.38	114.42	6	2
4	A	382	PX4	C19-C18-C17	2.57	101.38	114.42	7	4
4	A	421	PX4	C32-C31-C30	2.57	101.38	114.42	11	1
4	A	306	PX4	O6-C9-C10	2.57	113.71	123.73	13	1
4	A	314	PX4	O4-P1-O2	2.57	99.03	109.07	18	4
4	A	334	PX4	C8-O5-C9	2.57	107.61	117.12	11	2
4	A	341	PX4	O4-P1-O2	2.57	119.10	109.07	12	1
4	A	359	PX4	C17-C16-C15	2.57	101.39	114.42	8	2
4	A	369	PX4	C4-N1-C2	2.57	99.40	109.92	9	2
4	A	373	PX4	C32-C31-C30	2.57	101.38	114.42	4	1
4	A	374	PX4	C34-C33-C32	2.57	101.39	114.42	20	1
4	A	375	PX4	O1-P1-O4	2.57	119.67	107.75	1	3
4	A	415	PX4	C27-C26-C25	2.57	101.38	114.42	4	1
4	A	423	PX4	O4-P1-O2	2.57	119.11	109.07	10	5
4	A	315	PX4	O3-C1-C2	2.57	122.66	109.16	12	3
4	A	379	PX4	C26-C25-C24	2.57	103.97	113.19	4	1
4	A	383	PX4	C25-C24-C23	2.57	104.28	113.62	7	2
4	A	383	PX4	C26-C25-C24	2.57	103.96	113.19	7	1
4	A	332	PX4	O6-C9-C10	2.57	113.72	123.73	14	2
4	A	362	PX4	C15-C14-C13	2.57	101.40	114.42	10	3
4	A	401	PX4	C11-C10-C9	2.57	104.29	113.62	3	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	406	PX4	C14-C13-C12	2.56	101.41	114.42	20	4
4	A	317	PX4	O1-P1-O3	2.56	119.65	107.75	15	1
4	A	341	PX4	C34-C33-C32	2.56	101.42	114.42	13	2
4	A	383	PX4	C15-C14-C13	2.56	101.42	114.42	13	3
4	A	347	PX4	C29-C28-C27	2.56	101.43	114.42	5	2
4	A	366	PX4	C8-O5-C9	2.56	107.64	117.12	7	1
4	A	374	PX4	O3-P1-O2	2.56	99.06	109.07	11	3
4	A	385	PX4	C31-C30-C29	2.56	101.44	114.42	19	4
4	A	404	PX4	O1-P1-O2	2.56	124.89	112.24	3	12
4	A	408	PX4	C14-C13-C12	2.56	101.43	114.42	6	3
4	A	417	PX4	O8-C23-C24	2.56	113.75	123.73	3	1
4	A	325	PX4	C14-C13-C12	2.56	101.44	114.42	19	3
4	A	327	PX4	C5-N1-C3	2.56	102.40	108.97	17	3
4	A	341	PX4	C16-C15-C14	2.56	101.44	114.42	19	2
4	A	373	PX4	C16-C15-C14	2.56	101.45	114.42	13	2
4	A	396	PX4	C13-C12-C11	2.56	101.44	114.42	9	1
4	A	408	PX4	C17-C16-C15	2.56	101.44	114.42	10	4
4	A	321	PX4	C28-C27-C26	2.56	101.45	114.42	19	2
4	A	331	PX4	C34-C33-C32	2.56	101.45	114.42	13	3
4	A	335	PX4	C32-C31-C30	2.56	101.45	114.42	18	4
4	A	336	PX4	C25-C24-C23	2.56	122.91	113.62	5	2
4	A	365	PX4	C19-C18-C17	2.56	101.45	114.42	20	2
4	A	322	PX4	O1-P1-O4	2.55	119.61	107.75	18	1
4	A	358	PX4	C1-C2-N1	2.55	124.31	115.78	9	4
4	A	373	PX4	C34-C33-C32	2.55	101.46	114.42	10	1
4	A	339	PX4	C8-O5-C9	2.55	107.67	117.12	7	3
4	A	347	PX4	O1-P1-O4	2.55	119.60	107.75	6	4
4	A	330	PX4	C13-C12-C11	2.55	101.47	114.42	10	2
4	A	352	PX4	C20-C19-C18	2.55	101.47	114.42	8	2
4	A	361	PX4	C8-O5-C9	2.55	107.67	117.12	20	3
4	A	366	PX4	C14-C13-C12	2.55	101.46	114.42	12	3
4	A	412	PX4	C11-C10-C9	2.55	104.33	113.62	16	1
4	A	333	PX4	C4-N1-C2	2.55	120.36	109.92	19	1
4	A	314	PX4	C34-C33-C32	2.55	101.47	114.42	11	3
4	A	363	PX4	O1-P1-O3	2.55	95.89	107.75	19	4
4	A	391	PX4	C5-N1-C2	2.55	99.48	109.92	14	2
4	A	392	PX4	C18-C17-C16	2.55	101.48	114.42	17	2
4	A	400	PX4	O6-C9-C10	2.55	113.78	123.73	4	1
4	A	408	PX4	O4-P1-O2	2.55	99.10	109.07	19	1
4	A	369	PX4	C30-C29-C28	2.55	101.48	114.42	16	3
4	A	413	PX4	O4-P1-O2	2.55	119.03	109.07	12	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	418	PX4	C28-C27-C26	2.55	101.47	114.42	15	2
4	A	317	PX4	O3-P1-O2	2.55	119.03	109.07	17	3
4	A	349	PX4	C11-C10-C9	2.55	104.35	113.62	4	4
4	A	350	PX4	C30-C29-C28	2.55	101.48	114.42	19	2
4	A	396	PX4	C17-C16-C15	2.55	101.48	114.42	14	2
4	A	376	PX4	O1-P1-O4	2.55	119.58	107.75	16	2
4	A	410	PX4	C13-C12-C11	2.55	101.49	114.42	3	1
4	A	411	PX4	C16-C15-C14	2.55	101.49	114.42	2	4
4	A	422	PX4	O8-C23-C24	2.55	113.79	123.73	9	1
5	A	431	C3S	C57-C54-C48	2.55	107.70	115.03	11	1
4	A	353	PX4	C34-C33-C32	2.55	101.49	114.42	9	4
4	A	391	PX4	C32-C31-C30	2.55	101.49	114.42	18	2
4	A	312	PX4	C14-C13-C12	2.55	101.50	114.42	2	2
4	A	364	PX4	C12-C11-C10	2.55	104.04	113.19	9	1
4	A	397	PX4	C14-C13-C12	2.55	101.49	114.42	15	2
4	A	399	PX4	C14-C13-C12	2.55	101.50	114.42	14	3
4	A	309	PX4	C3-N1-C2	2.55	120.33	109.92	11	2
4	A	318	PX4	O3-P1-O2	2.55	119.01	109.07	6	3
4	A	320	PX4	C33-C32-C31	2.54	101.50	114.42	11	1
4	A	416	PX4	O1-P1-O3	2.55	95.92	107.75	8	3
4	A	352	PX4	C16-C15-C14	2.54	101.51	114.42	3	1
4	A	416	PX4	O3-P1-O2	2.54	99.13	109.07	20	3
4	A	418	PX4	C27-C26-C25	2.54	101.51	114.42	16	2
4	A	427	PX4	C25-C24-C23	2.54	104.37	113.62	2	1
4	A	307	PX4	C12-C11-C10	2.54	104.05	113.19	8	2
4	A	332	PX4	C32-C31-C30	2.54	101.52	114.42	6	2
4	A	404	PX4	C8-O5-C9	2.54	107.71	117.12	1	1
4	A	426	PX4	C26-C25-C24	2.54	122.33	113.19	15	2
4	A	341	PX4	C5-N1-C2	2.54	120.31	109.92	5	3
4	A	359	PX4	C5-N1-C3	2.54	115.50	108.97	7	2
4	A	362	PX4	C12-C11-C10	2.54	104.06	113.19	17	3
4	A	372	PX4	C29-C28-C27	2.54	101.53	114.42	14	3
4	A	382	PX4	C28-C27-C26	2.54	101.53	114.42	15	1
4	A	384	PX4	O1-P1-O4	2.54	119.54	107.75	16	5
4	A	401	PX4	C8-O5-C9	2.54	107.72	117.12	1	3
4	A	404	PX4	C26-C25-C24	2.54	104.06	113.19	20	2
4	A	338	PX4	C13-C12-C11	2.54	101.54	114.42	3	2
4	A	340	PX4	C3-N1-C2	2.54	120.30	109.92	9	2
4	A	417	PX4	C34-C33-C32	2.54	101.53	114.42	15	1
4	A	389	PX4	C31-C30-C29	2.54	101.54	114.42	18	1
4	A	333	PX4	C15-C14-C13	2.54	101.55	114.42	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	361	PX4	O1-P1-O3	2.54	95.97	107.75	20	1
4	A	371	PX4	C33-C32-C31	2.54	101.55	114.42	1	1
4	A	378	PX4	O1-P1-O4	2.54	119.52	107.75	18	5
4	A	383	PX4	C5-N1-C2	2.54	99.54	109.92	19	3
4	A	333	PX4	C30-C29-C28	2.53	101.56	114.42	12	4
4	A	357	PX4	O1-P1-O4	2.53	119.52	107.75	8	4
4	A	381	PX4	O8-C23-C24	2.53	113.85	123.73	17	2
4	A	390	PX4	C15-C14-C13	2.53	101.56	114.42	5	2
4	A	395	PX4	O8-C23-C24	2.53	133.62	123.73	7	1
4	A	403	PX4	O7-C7-C8	2.54	117.58	108.40	16	5
4	A	319	PX4	C29-C28-C27	2.53	101.57	114.42	15	1
4	A	338	PX4	C18-C17-C16	2.53	101.57	114.42	9	1
4	A	405	PX4	O3-C1-C2	2.53	122.48	109.16	4	1
4	A	412	PX4	O3-C1-C2	2.53	122.48	109.16	3	2
4	A	418	PX4	C18-C17-C16	2.53	101.56	114.42	1	4
4	A	325	PX4	C19-C18-C17	2.53	101.57	114.42	11	2
4	A	349	PX4	C33-C32-C31	2.53	101.57	114.42	20	2
4	A	362	PX4	C32-C31-C30	2.53	101.57	114.42	15	2
4	A	381	PX4	C28-C27-C26	2.53	101.57	114.42	13	2
4	A	379	PX4	C13-C12-C11	2.53	101.58	114.42	17	3
4	A	387	PX4	C30-C29-C28	2.53	101.57	114.42	20	3
4	A	404	PX4	C19-C18-C17	2.53	101.58	114.42	10	2
4	A	412	PX4	C15-C14-C13	2.53	101.58	114.42	17	2
4	A	426	PX4	C7-O7-C23	2.53	124.02	117.79	18	1
4	A	307	PX4	C5-N1-C3	2.53	102.47	108.97	4	5
4	A	327	PX4	O1-P1-O3	2.53	119.49	107.75	20	2
4	A	329	PX4	C32-C31-C30	2.53	101.58	114.42	19	1
4	A	312	PX4	O1-P1-O4	2.53	119.49	107.75	20	1
4	A	360	PX4	C25-C24-C23	2.53	104.42	113.62	20	3
4	A	390	PX4	O8-C23-C24	2.53	113.87	123.73	17	1
4	A	385	PX4	C17-C16-C15	2.53	101.59	114.42	11	1
4	A	389	PX4	C29-C28-C27	2.53	101.59	114.42	9	2
4	A	396	PX4	O4-P1-O2	2.53	118.94	109.07	8	3
4	A	408	PX4	C18-C17-C16	2.53	101.59	114.42	12	1
4	A	318	PX4	C4-N1-C2	2.52	99.59	109.92	3	3
4	A	366	PX4	C20-C19-C18	2.53	101.60	114.42	8	2
4	A	371	PX4	C11-C10-C9	2.53	104.44	113.62	13	5
4	A	373	PX4	C13-C12-C11	2.52	101.61	114.42	1	1
4	A	397	PX4	C13-C12-C11	2.52	101.61	114.42	4	3
4	A	397	PX4	C3-N1-C2	2.53	99.58	109.92	5	3
4	A	408	PX4	C4-N1-C2	2.53	120.25	109.92	11	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	413	PX4	C16-C15-C14	2.53	101.61	114.42	17	2
5	A	433	C3S	O4-S1-O2	2.53	122.36	112.22	10	6
4	A	328	PX4	C26-C25-C24	2.52	104.12	113.19	7	3
4	A	348	PX4	C18-C17-C16	2.52	101.62	114.42	17	1
4	A	354	PX4	C16-C15-C14	2.52	101.62	114.42	15	3
4	A	362	PX4	O4-P1-O2	2.52	99.21	109.07	2	3
4	A	390	PX4	C19-C18-C17	2.52	101.61	114.42	20	1
4	A	412	PX4	O1-P1-O3	2.52	96.02	107.75	6	2
4	A	313	PX4	C17-C16-C15	2.52	101.62	114.42	12	1
4	A	338	PX4	C20-C19-C18	2.52	101.62	114.42	18	2
4	A	357	PX4	C17-C16-C15	2.52	101.63	114.42	2	1
4	A	368	PX4	C26-C25-C24	2.52	104.13	113.19	16	3
4	A	371	PX4	C20-C19-C18	2.52	101.62	114.42	8	2
5	A	435	C3S	C1-C22-C12	2.52	113.37	108.75	6	4
4	A	321	PX4	C19-C18-C17	2.52	101.63	114.42	15	2
4	A	415	PX4	C1-C2-N1	2.52	124.20	115.78	17	5
4	A	428	PX4	C20-C19-C18	2.52	101.63	114.42	16	2
4	A	363	PX4	O4-P1-O2	2.52	118.91	109.07	11	4
4	A	374	PX4	O5-C9-O6	2.52	117.24	123.59	2	3
4	A	403	PX4	O3-C1-C2	2.52	122.41	109.16	11	2
4	A	405	PX4	O1-P1-O4	2.52	119.44	107.75	20	1
4	A	416	PX4	O3-C1-C2	2.52	122.41	109.16	4	2
4	A	362	PX4	C17-C16-C15	2.52	101.64	114.42	3	1
4	A	307	PX4	C11-C10-C9	2.52	104.47	113.62	1	3
4	A	307	PX4	O1-P1-O2	2.52	124.68	112.24	17	10
4	A	323	PX4	C15-C14-C13	2.52	101.65	114.42	18	3
4	A	352	PX4	C25-C24-C23	2.52	122.77	113.62	5	3
4	A	416	PX4	C4-N1-C2	2.52	120.21	109.92	1	1
4	A	307	PX4	C5-N1-C2	2.51	120.20	109.92	7	2
4	A	316	PX4	C28-C27-C26	2.51	101.66	114.42	3	1
4	A	331	PX4	O3-C1-C2	2.51	122.38	109.16	18	1
4	A	347	PX4	C15-C14-C13	2.51	101.66	114.42	7	1
4	A	352	PX4	O7-C7-C8	2.51	117.51	108.40	6	2
4	A	383	PX4	O3-C1-C2	2.52	122.39	109.16	8	1
4	A	407	PX4	C11-C10-C9	2.52	104.47	113.62	13	3
4	A	422	PX4	C8-O5-C9	2.52	107.81	117.12	13	1
4	A	340	PX4	C16-C15-C14	2.51	101.66	114.42	14	2
4	A	429	PX4	C19-C18-C17	2.51	101.66	114.42	15	2
4	A	373	PX4	C3-N1-C2	2.51	120.19	109.92	7	2
4	A	412	PX4	C20-C19-C18	2.51	101.67	114.42	20	3
4	A	421	PX4	C16-C15-C14	2.51	101.67	114.42	13	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	427	PX4	C12-C11-C10	2.51	104.16	113.19	18	1
4	A	312	PX4	C19-C18-C17	2.51	101.68	114.42	5	2
4	A	375	PX4	C32-C31-C30	2.51	101.69	114.42	4	1
4	A	416	PX4	C25-C24-C23	2.51	104.50	113.62	20	5
4	A	427	PX4	C27-C26-C25	2.51	101.69	114.42	10	1
4	A	367	PX4	C25-C24-C23	2.51	104.50	113.62	14	2
4	A	424	PX4	C25-C24-C23	2.51	104.50	113.62	3	2
4	A	307	PX4	C14-C13-C12	2.51	101.70	114.42	14	2
4	A	371	PX4	C14-C13-C12	2.51	101.70	114.42	5	4
4	A	371	PX4	C12-C11-C10	2.51	104.18	113.19	14	1
4	A	340	PX4	C19-C18-C17	2.50	101.71	114.42	20	2
4	A	340	PX4	C8-O5-C9	2.50	107.84	117.12	4	2
4	A	353	PX4	C27-C26-C25	2.51	101.70	114.42	18	3
4	A	394	PX4	C30-C29-C28	2.51	101.70	114.42	12	2
4	A	411	PX4	O6-C9-C10	2.51	113.96	123.73	1	2
4	A	423	PX4	C31-C30-C29	2.51	101.70	114.42	3	1
4	A	342	PX4	C27-C26-C25	2.50	101.71	114.42	6	1
4	A	344	PX4	C28-C27-C26	2.50	101.71	114.42	19	2
4	A	398	PX4	C27-C26-C25	2.50	101.71	114.42	15	1
4	A	429	PX4	C4-N1-C2	2.51	120.17	109.92	16	2
4	A	337	PX4	C14-C13-C12	2.50	101.72	114.42	15	1
4	A	370	PX4	C4-N1-C2	2.50	120.15	109.92	4	3
4	A	385	PX4	C4-N1-C2	2.50	120.16	109.92	15	2
4	A	392	PX4	C16-C15-C14	2.50	101.72	114.42	17	3
4	A	420	PX4	C34-C33-C32	2.50	101.73	114.42	3	2
4	A	350	PX4	O5-C9-O6	2.50	117.28	123.59	8	2
4	A	427	PX4	C26-C25-C24	2.50	104.20	113.19	18	2
4	A	429	PX4	C16-C15-C14	2.50	101.73	114.42	15	1
4	A	393	PX4	O3-C1-C2	2.50	122.30	109.16	14	3
4	A	306	PX4	O1-P1-O4	2.50	119.34	107.75	16	1
4	A	339	PX4	C16-C15-C14	2.50	101.75	114.42	7	1
4	A	345	PX4	C11-C10-C9	2.50	104.54	113.62	5	2
4	A	331	PX4	C4-N1-C2	2.49	120.12	109.92	19	4
4	A	356	PX4	C33-C32-C31	2.50	101.75	114.42	13	3
4	A	378	PX4	O1-P1-O3	2.50	96.15	107.75	19	1
4	A	406	PX4	O8-C23-C24	2.50	114.00	123.73	9	1
4	A	415	PX4	C13-C12-C11	2.50	101.75	114.42	11	3
4	A	311	PX4	O8-C23-C24	2.49	114.00	123.73	11	2
4	A	356	PX4	C19-C18-C17	2.49	101.76	114.42	20	1
4	A	381	PX4	O1-P1-O4	2.49	119.33	107.75	2	1
4	A	324	PX4	C5-N1-C2	2.49	99.72	109.92	10	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	330	PX4	C4-N1-C2	2.49	120.11	109.92	2	1
4	A	352	PX4	C28-C27-C26	2.49	101.77	114.42	8	1
4	A	385	PX4	C3-N1-C2	2.49	120.12	109.92	13	1
4	A	355	PX4	C32-C31-C30	2.49	101.78	114.42	14	4
4	A	357	PX4	C15-C14-C13	2.49	101.77	114.42	19	2
4	A	329	PX4	C15-C14-C13	2.49	101.78	114.42	19	2
4	A	353	PX4	C28-C27-C26	2.49	101.78	114.42	16	2
4	A	366	PX4	C13-C12-C11	2.49	101.78	114.42	2	2
4	A	338	PX4	C11-C10-C9	2.49	122.67	113.62	18	2
4	A	355	PX4	O1-P1-O3	2.49	96.18	107.75	15	3
4	A	385	PX4	C25-C24-C23	2.49	104.57	113.62	17	2
4	A	318	PX4	C3-N1-C2	2.49	120.10	109.92	9	1
4	A	352	PX4	O5-C9-C10	2.49	119.72	111.91	3	5
4	A	311	PX4	C32-C31-C30	2.49	101.80	114.42	10	3
4	A	312	PX4	C15-C14-C13	2.49	101.80	114.42	2	5
4	A	380	PX4	O3-C1-C2	2.49	122.24	109.16	2	3
4	A	308	PX4	C30-C29-C28	2.49	101.81	114.42	7	2
4	A	330	PX4	C19-C18-C17	2.49	101.80	114.42	9	3
4	A	348	PX4	C33-C32-C31	2.49	101.80	114.42	7	4
4	A	427	PX4	C16-C15-C14	2.49	101.80	114.42	7	3
4	A	327	PX4	C11-C10-C9	2.49	104.58	113.62	10	1
4	A	324	PX4	C16-C15-C14	2.48	101.81	114.42	1	4
4	A	346	PX4	C18-C17-C16	2.48	101.81	114.42	4	2
4	A	405	PX4	C28-C27-C26	2.48	101.81	114.42	9	1
4	A	306	PX4	O1-P1-O3	2.48	96.22	107.75	6	1
4	A	315	PX4	C28-C27-C26	2.48	101.82	114.42	14	1
4	A	336	PX4	C28-C27-C26	2.48	101.82	114.42	1	1
4	A	339	PX4	O1-P1-O3	2.48	96.22	107.75	17	1
4	A	372	PX4	C15-C14-C13	2.48	101.84	114.42	1	2
4	A	383	PX4	C12-C11-C10	2.48	104.28	113.19	18	2
4	A	407	PX4	C3-N1-C2	2.48	120.06	109.92	3	1
4	A	422	PX4	O1-P1-O3	2.48	96.23	107.75	18	3
4	A	312	PX4	C1-C2-N1	2.48	124.05	115.78	11	3
4	A	317	PX4	C5-N1-C3	2.48	102.60	108.97	18	4
4	A	363	PX4	C34-C33-C32	2.48	101.84	114.42	12	2
4	A	376	PX4	C30-C29-C28	2.48	101.85	114.42	20	1
4	A	389	PX4	C17-C16-C15	2.48	101.84	114.42	20	2
4	A	375	PX4	C13-C12-C11	2.48	101.86	114.42	2	3
4	A	394	PX4	C4-N1-C2	2.48	120.05	109.92	7	2
4	A	398	PX4	C19-C18-C17	2.48	101.85	114.42	2	2
4	A	417	PX4	C15-C14-C13	2.48	101.84	114.42	11	4

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	322	PX4	C3-N1-C2	2.48	99.78	109.92	13	1
4	A	326	PX4	O8-C23-C24	2.48	114.07	123.73	11	2
4	A	341	PX4	C14-C13-C12	2.48	101.85	114.42	13	2
4	A	400	PX4	C29-C28-C27	2.48	101.85	114.42	14	2
4	A	402	PX4	C25-C24-C23	2.48	104.61	113.62	16	3
4	A	320	PX4	C34-C33-C32	2.47	101.86	114.42	1	1
4	A	322	PX4	C31-C30-C29	2.48	101.86	114.42	15	1
4	A	349	PX4	O8-C23-C24	2.48	114.07	123.73	9	1
4	A	386	PX4	C4-N1-C2	2.48	120.05	109.92	19	3
4	A	316	PX4	C11-C10-C9	2.47	104.63	113.62	13	3
4	A	329	PX4	C34-C33-C32	2.47	101.87	114.42	15	4
4	A	336	PX4	C20-C19-C18	2.47	101.87	114.42	6	2
4	A	341	PX4	C15-C14-C13	2.47	101.87	114.42	14	2
4	A	349	PX4	C5-N1-C2	2.47	99.80	109.92	1	3
4	A	356	PX4	O5-C9-O6	2.47	117.35	123.59	10	5
4	A	344	PX4	C12-C11-C10	2.47	104.31	113.19	2	2
4	A	344	PX4	C3-N1-C2	2.47	120.03	109.92	10	1
4	A	368	PX4	C18-C17-C16	2.47	101.88	114.42	12	2
4	A	374	PX4	C16-C15-C14	2.47	101.87	114.42	3	2
4	A	406	PX4	O6-C9-C10	2.47	114.08	123.73	17	1
4	A	386	PX4	O3-C1-C2	2.47	122.16	109.16	13	1
4	A	366	PX4	O1-P1-O3	2.47	96.27	107.75	6	3
4	A	374	PX4	O8-C23-C24	2.47	114.09	123.73	9	1
4	A	384	PX4	C13-C12-C11	2.47	101.88	114.42	7	3
4	A	373	PX4	C4-N1-C2	2.47	120.02	109.92	19	2
4	A	430	PX4	C33-C32-C31	2.47	101.89	114.42	11	1
4	A	326	PX4	C34-C33-C32	2.47	101.89	114.42	17	1
4	A	351	PX4	C27-C26-C25	2.47	101.89	114.42	5	2
4	A	305	PX4	C31-C30-C29	2.47	101.90	114.42	3	1
4	A	336	PX4	O3-C1-C2	2.47	122.14	109.16	12	4
4	A	397	PX4	C20-C19-C18	2.47	101.90	114.42	13	2
4	A	400	PX4	C3-N1-C2	2.47	120.01	109.92	19	1
4	A	427	PX4	C15-C14-C13	2.47	101.90	114.42	8	1
4	A	305	PX4	O4-P1-O2	2.47	118.70	109.07	3	1
4	A	321	PX4	C15-C14-C13	2.47	101.91	114.42	11	4
4	A	327	PX4	C26-C25-C24	2.47	104.33	113.19	15	3
4	A	339	PX4	C30-C29-C28	2.47	101.91	114.42	8	1
4	A	362	PX4	C1-C2-N1	2.47	124.01	115.78	11	3
4	A	394	PX4	C32-C31-C30	2.47	101.91	114.42	2	1
4	A	400	PX4	C18-C17-C16	2.47	101.91	114.42	7	1
4	A	407	PX4	C27-C26-C25	2.47	101.91	114.42	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	344	PX4	C4-N1-C2	2.46	120.00	109.92	19	2
4	A	349	PX4	C28-C27-C26	2.46	101.92	114.42	18	2
4	A	386	PX4	C15-C14-C13	2.46	101.92	114.42	5	2
4	A	315	PX4	C16-C15-C14	2.46	101.93	114.42	11	2
4	A	392	PX4	C34-C33-C32	2.46	101.93	114.42	7	2
4	A	402	PX4	C17-C16-C15	2.46	101.92	114.42	8	1
4	A	328	PX4	C28-C27-C26	2.46	101.93	114.42	1	3
4	A	355	PX4	C33-C32-C31	2.46	101.93	114.42	8	1
4	A	312	PX4	C30-C29-C28	2.46	101.94	114.42	9	2
4	A	347	PX4	C14-C13-C12	2.46	101.94	114.42	16	1
4	A	425	PX4	C20-C19-C18	2.46	101.93	114.42	16	2
4	A	429	PX4	C28-C27-C26	2.46	101.93	114.42	19	1
4	A	327	PX4	C27-C26-C25	2.46	101.94	114.42	12	3
4	A	388	PX4	C25-C24-C23	2.46	104.68	113.62	1	1
4	A	317	PX4	C16-C15-C14	2.46	101.95	114.42	18	2
4	A	323	PX4	C19-C18-C17	2.46	101.95	114.42	16	2
4	A	343	PX4	C29-C28-C27	2.46	101.95	114.42	9	2
4	A	357	PX4	C3-N1-C2	2.46	99.86	109.92	7	1
4	A	374	PX4	C28-C27-C26	2.46	101.95	114.42	1	1
4	A	415	PX4	C19-C18-C17	2.46	101.95	114.42	14	3
4	A	315	PX4	C32-C31-C30	2.46	101.96	114.42	20	3
4	A	320	PX4	C5-N1-C2	2.46	99.87	109.92	16	3
4	A	419	PX4	C3-N1-C2	2.46	119.97	109.92	20	1
4	A	329	PX4	C26-C25-C24	2.46	104.36	113.19	1	1
4	A	317	PX4	C4-N1-C2	2.45	119.96	109.92	15	2
4	A	423	PX4	C16-C15-C14	2.46	101.96	114.42	19	3
4	A	319	PX4	O6-C9-C10	2.45	114.16	123.73	20	1
4	A	328	PX4	C15-C14-C13	2.45	101.97	114.42	5	2
4	A	426	PX4	O8-C23-C24	2.45	114.16	123.73	18	3
4	A	362	PX4	C13-C12-C11	2.45	101.97	114.42	10	1
4	A	311	PX4	C20-C19-C18	2.45	101.98	114.42	19	3
4	A	332	PX4	C29-C28-C27	2.45	101.98	114.42	20	3
4	A	362	PX4	C33-C32-C31	2.45	101.98	114.42	9	3
4	A	369	PX4	O1-P1-O3	2.45	96.35	107.75	7	2
4	A	377	PX4	C16-C15-C14	2.45	101.98	114.42	6	1
4	A	406	PX4	C16-C15-C14	2.45	101.97	114.42	4	3
4	A	408	PX4	C8-O5-C9	2.45	108.04	117.12	1	2
4	A	409	PX4	C19-C18-C17	2.45	101.97	114.42	9	4
4	A	333	PX4	C33-C32-C31	2.45	101.98	114.42	15	1
4	A	338	PX4	C28-C27-C26	2.45	101.99	114.42	15	2
4	A	350	PX4	C4-N1-C2	2.45	119.94	109.92	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	400	PX4	O1-P1-O4	2.45	119.13	107.75	4	2
4	A	310	PX4	C28-C27-C26	2.45	101.99	114.42	10	1
4	A	330	PX4	O6-C9-C10	2.45	114.18	123.73	8	1
4	A	332	PX4	C3-N1-C2	2.45	99.89	109.92	19	1
4	A	410	PX4	O1-P1-O3	2.45	119.12	107.75	5	3
4	A	410	PX4	C8-O5-C9	2.45	126.19	117.12	8	1
4	A	383	PX4	C14-C13-C12	2.45	102.00	114.42	13	1
4	A	411	PX4	C19-C18-C17	2.45	101.99	114.42	8	4
4	A	323	PX4	C16-C15-C14	2.45	102.00	114.42	19	3
4	A	309	PX4	C31-C30-C29	2.45	102.01	114.42	8	1
4	A	351	PX4	C1-C2-N1	2.45	123.94	115.78	8	2
4	A	363	PX4	C4-N1-C2	2.45	99.91	109.92	13	1
4	A	379	PX4	C19-C18-C17	2.45	102.01	114.42	5	1
4	A	385	PX4	C8-O5-C9	2.45	108.06	117.12	5	3
4	A	407	PX4	C12-C11-C10	2.45	104.40	113.19	10	2
4	A	419	PX4	C30-C29-C28	2.45	102.00	114.42	7	4
4	A	306	PX4	O3-P1-O2	2.44	118.62	109.07	13	1
4	A	387	PX4	C20-C19-C18	2.44	102.01	114.42	2	2
4	A	387	PX4	O1-P1-O4	2.44	119.09	107.75	9	3
4	A	430	PX4	C12-C11-C10	2.44	104.40	113.19	11	2
4	A	320	PX4	C29-C28-C27	2.44	102.02	114.42	20	3
4	A	307	PX4	C13-C12-C11	2.44	102.03	114.42	7	1
4	A	350	PX4	C27-C26-C25	2.44	102.03	114.42	10	1
4	A	364	PX4	C13-C12-C11	2.44	102.03	114.42	20	3
4	A	364	PX4	C31-C30-C29	2.44	102.03	114.42	5	2
4	A	370	PX4	C29-C28-C27	2.44	102.03	114.42	7	4
4	A	394	PX4	C4-N1-C3	2.44	102.70	108.97	19	3
4	A	423	PX4	C30-C29-C28	2.44	102.03	114.42	12	2
4	A	343	PX4	C3-N1-C2	2.44	119.89	109.92	14	1
4	A	360	PX4	C14-C13-C12	2.44	102.05	114.42	8	1
4	A	389	PX4	C13-C12-C11	2.44	102.05	114.42	17	1
4	A	390	PX4	C20-C19-C18	2.44	102.05	114.42	5	1
4	A	329	PX4	C14-C13-C12	2.44	102.05	114.42	13	2
4	A	334	PX4	C20-C19-C18	2.44	102.05	114.42	7	2
4	A	406	PX4	C4-N1-C2	2.44	99.94	109.92	15	2
4	A	417	PX4	C30-C29-C28	2.44	102.05	114.42	6	4
4	A	328	PX4	C4-N1-C2	2.44	99.95	109.92	12	3
4	A	360	PX4	C31-C30-C29	2.44	102.06	114.42	15	2
4	A	380	PX4	C3-N1-C2	2.44	119.89	109.92	6	1
4	A	381	PX4	O1-P1-O3	2.44	96.43	107.75	2	3
4	A	383	PX4	C19-C18-C17	2.44	102.06	114.42	10	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	394	PX4	C19-C18-C17	2.44	102.06	114.42	2	1
4	A	309	PX4	C29-C28-C27	2.43	102.08	114.42	7	2
4	A	309	PX4	C8-O5-C9	2.43	108.11	117.12	19	1
4	A	310	PX4	C13-C12-C11	2.43	102.07	114.42	3	3
4	A	337	PX4	C16-C15-C14	2.43	102.07	114.42	18	1
4	A	340	PX4	O8-C23-C24	2.43	114.23	123.73	16	3
4	A	357	PX4	C19-C18-C17	2.43	102.07	114.42	6	3
4	A	370	PX4	C14-C13-C12	2.44	102.06	114.42	11	1
4	A	411	PX4	O4-P1-O2	2.43	118.58	109.07	11	2
4	A	427	PX4	O1-P1-O3	2.44	96.43	107.75	11	3
4	A	414	PX4	C14-C13-C12	2.43	102.06	114.42	18	2
4	A	428	PX4	C18-C17-C16	2.43	102.07	114.42	20	1
4	A	315	PX4	C33-C32-C31	2.43	102.08	114.42	15	2
4	A	324	PX4	C4-N1-C2	2.43	119.87	109.92	10	1
4	A	355	PX4	C8-O5-C9	2.43	108.11	117.12	15	3
4	A	358	PX4	C20-C19-C18	2.43	102.08	114.42	12	2
4	A	330	PX4	C27-C26-C25	2.43	102.08	114.42	13	1
4	A	385	PX4	C14-C13-C12	2.43	126.77	114.42	10	3
4	A	425	PX4	C32-C31-C30	2.43	102.08	114.42	2	2
4	A	359	PX4	C16-C15-C14	2.43	102.09	114.42	9	2
4	A	393	PX4	C32-C31-C30	2.43	102.09	114.42	8	4
4	A	396	PX4	C11-C10-C9	2.43	122.46	113.62	2	3
4	A	402	PX4	C28-C27-C26	2.43	102.09	114.42	20	2
4	A	380	PX4	C17-C16-C15	2.43	102.09	114.42	6	2
4	A	381	PX4	C17-C16-C15	2.43	102.09	114.42	12	2
4	A	414	PX4	C27-C26-C25	2.43	102.09	114.42	9	2
4	A	316	PX4	O6-C9-C10	2.43	114.26	123.73	1	1
4	A	339	PX4	C5-N1-C3	2.43	102.73	108.97	1	3
4	A	364	PX4	C4-N1-C3	2.43	102.73	108.97	16	2
4	A	353	PX4	O6-C9-C10	2.43	114.26	123.73	18	2
4	A	316	PX4	C31-C30-C29	2.43	102.11	114.42	19	1
4	A	356	PX4	C15-C14-C13	2.43	102.11	114.42	1	2
4	A	357	PX4	C20-C19-C18	2.43	102.11	114.42	18	3
4	A	407	PX4	O3-C1-C2	2.43	121.92	109.16	4	1
4	A	410	PX4	C27-C26-C25	2.43	102.10	114.42	5	2
4	A	414	PX4	C29-C28-C27	2.43	102.10	114.42	11	1
4	A	421	PX4	O1-P1-O3	2.43	96.47	107.75	18	4
4	A	421	PX4	C33-C32-C31	2.43	102.10	114.42	17	2
4	A	422	PX4	C13-C12-C11	2.43	102.11	114.42	12	1
4	A	354	PX4	O3-P1-O2	2.42	99.60	109.07	2	3
4	A	362	PX4	C26-C25-C24	2.42	104.48	113.19	5	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	396	PX4	C31-C30-C29	2.43	102.11	114.42	1	3
4	A	400	PX4	C27-C26-C25	2.42	102.12	114.42	9	1
5	A	434	C3S	C15-C18-C30	2.42	114.42	110.91	17	4
4	A	325	PX4	C3-N1-C2	2.42	119.83	109.92	6	2
4	A	405	PX4	C18-C17-C16	2.42	102.13	114.42	7	2
4	A	409	PX4	C30-C29-C28	2.42	102.14	114.42	11	2
4	A	413	PX4	C17-C16-C15	2.42	102.13	114.42	17	4
4	A	314	PX4	C18-C17-C16	2.42	102.14	114.42	20	3
4	A	336	PX4	C31-C30-C29	2.42	102.14	114.42	12	2
4	A	418	PX4	C34-C33-C32	2.42	102.14	114.42	4	1
4	A	419	PX4	O4-P1-O2	2.42	118.53	109.07	10	4
4	A	314	PX4	O1-P1-O3	2.42	118.98	107.75	18	2
4	A	337	PX4	C27-C26-C25	2.42	102.14	114.42	1	2
4	A	328	PX4	O6-C9-C10	2.42	114.30	123.73	1	1
4	A	340	PX4	C15-C14-C13	2.42	102.15	114.42	17	3
4	A	356	PX4	C27-C26-C25	2.42	102.15	114.42	15	1
4	A	390	PX4	C13-C12-C11	2.42	102.14	114.42	16	1
4	A	372	PX4	C3-N1-C2	2.42	119.81	109.92	19	2
5	A	432	C3S	C57-C54-C48	2.42	121.99	115.03	16	2
4	A	318	PX4	O8-C23-C24	2.42	114.31	123.73	2	2
4	A	328	PX4	C13-C12-C11	2.42	102.16	114.42	10	2
4	A	355	PX4	C16-C15-C14	2.42	102.16	114.42	11	3
4	A	355	PX4	C14-C13-C12	2.42	102.16	114.42	4	1
4	A	387	PX4	C4-N1-C2	2.42	119.81	109.92	18	2
4	A	405	PX4	O6-C9-C10	2.42	114.31	123.73	11	2
4	A	316	PX4	C12-C11-C10	2.41	121.87	113.19	2	2
4	A	319	PX4	C1-C2-N1	2.41	123.84	115.78	17	4
4	A	340	PX4	C5-N1-C4	2.41	102.77	108.97	14	1
4	A	368	PX4	C11-C10-C9	2.41	122.40	113.62	5	2
4	A	429	PX4	O3-P1-O2	2.41	99.63	109.07	2	2
4	A	317	PX4	O3-C1-C2	2.41	121.84	109.16	3	2
4	A	355	PX4	C4-N1-C2	2.41	119.79	109.92	2	2
4	A	424	PX4	C28-C27-C26	2.41	102.17	114.42	4	1
4	A	361	PX4	C26-C25-C24	2.41	104.52	113.19	16	2
4	A	419	PX4	C18-C17-C16	2.41	102.18	114.42	13	3
4	A	320	PX4	C31-C30-C29	2.41	102.19	114.42	9	1
4	A	417	PX4	C17-C16-C15	2.41	102.19	114.42	17	2
4	A	428	PX4	C4-N1-C2	2.41	100.05	109.92	4	2
4	A	321	PX4	C13-C12-C11	2.41	102.20	114.42	16	3
4	A	356	PX4	C17-C16-C15	2.41	102.19	114.42	8	1
4	A	396	PX4	C32-C31-C30	2.41	102.19	114.42	12	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	423	PX4	C13-C12-C11	2.41	102.20	114.42	6	4
4	A	430	PX4	C25-C24-C23	2.41	104.86	113.62	18	2
4	A	313	PX4	C18-C17-C16	2.41	102.21	114.42	8	1
4	A	329	PX4	C5-N1-C2	2.41	119.77	109.92	5	1
4	A	329	PX4	C30-C29-C28	2.41	102.21	114.42	11	2
4	A	363	PX4	C18-C17-C16	2.41	102.20	114.42	19	1
4	A	329	PX4	O3-C1-C2	2.41	121.82	109.16	16	1
4	A	332	PX4	O1-P1-O4	2.41	118.92	107.75	16	4
4	A	369	PX4	C28-C27-C26	2.41	102.20	114.42	15	1
4	A	388	PX4	C11-C10-C9	2.41	104.86	113.62	15	3
4	A	411	PX4	C15-C14-C13	2.41	102.20	114.42	9	2
4	A	315	PX4	C27-C26-C25	2.40	102.22	114.42	14	2
4	A	349	PX4	C34-C33-C32	2.40	102.22	114.42	14	1
4	A	405	PX4	O8-C23-C24	2.41	114.35	123.73	17	1
4	A	407	PX4	C20-C19-C18	2.41	102.21	114.42	7	1
4	A	356	PX4	C16-C15-C14	2.40	102.22	114.42	2	4
4	A	378	PX4	C3-N1-C2	2.40	100.09	109.92	8	1
4	A	424	PX4	C5-N1-C2	2.40	119.75	109.92	7	3
4	A	312	PX4	C27-C26-C25	2.40	102.24	114.42	15	2
4	A	328	PX4	O4-P1-O2	2.40	118.45	109.07	10	1
4	A	330	PX4	C14-C13-C12	2.40	102.25	114.42	6	2
4	A	337	PX4	C17-C16-C15	2.40	102.24	114.42	20	1
4	A	388	PX4	C8-O5-C9	2.40	108.23	117.12	7	4
4	A	377	PX4	C34-C33-C32	2.40	102.25	114.42	1	1
4	A	378	PX4	O8-C23-C24	2.40	114.37	123.73	10	2
4	A	386	PX4	O5-C9-C10	2.40	119.44	111.91	1	5
4	A	405	PX4	C32-C31-C30	2.40	102.24	114.42	9	1
4	A	422	PX4	C31-C30-C29	2.40	102.24	114.42	20	4
4	A	323	PX4	O5-C9-O6	2.40	117.54	123.59	18	7
4	A	346	PX4	C15-C14-C13	2.40	102.25	114.42	5	2
4	A	352	PX4	C5-N1-C3	2.40	115.14	108.97	15	1
4	A	411	PX4	C5-N1-C4	2.40	115.14	108.97	16	3
4	A	412	PX4	C16-C15-C14	2.40	102.24	114.42	8	1
4	A	305	PX4	C4-N1-C2	2.40	119.72	109.92	15	2
4	A	355	PX4	C19-C18-C17	2.40	102.26	114.42	7	3
4	A	368	PX4	C8-O5-C9	2.40	108.24	117.12	18	1
4	A	417	PX4	C26-C25-C24	2.40	104.58	113.19	14	1
4	A	319	PX4	C12-C11-C10	2.39	104.58	113.19	19	2
4	A	332	PX4	C20-C19-C18	2.40	102.27	114.42	13	3
4	A	344	PX4	C25-C24-C23	2.40	104.91	113.62	18	3
4	A	351	PX4	C33-C32-C31	2.40	102.26	114.42	13	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	355	PX4	C5-N1-C2	2.40	119.72	109.92	6	2
4	A	399	PX4	C26-C25-C24	2.40	104.58	113.19	20	5
4	A	414	PX4	C12-C11-C10	2.40	104.58	113.19	5	1
4	A	419	PX4	C31-C30-C29	2.40	102.26	114.42	1	2
4	A	357	PX4	C18-C17-C16	2.40	102.27	114.42	19	1
4	A	320	PX4	C13-C12-C11	2.39	102.27	114.42	10	3
4	A	328	PX4	C29-C28-C27	2.39	102.28	114.42	19	2
4	A	331	PX4	C18-C17-C16	2.39	102.27	114.42	5	2
4	A	354	PX4	O5-C9-O6	2.39	117.55	123.59	8	5
4	A	373	PX4	C14-C13-C12	2.39	102.27	114.42	1	2
4	A	378	PX4	C33-C32-C31	2.39	102.27	114.42	5	3
4	A	412	PX4	C25-C24-C23	2.39	104.92	113.62	19	4
4	A	414	PX4	O6-C9-C10	2.39	114.39	123.73	2	1
4	A	313	PX4	C4-N1-C2	2.39	119.70	109.92	18	2
4	A	378	PX4	C17-C16-C15	2.39	102.28	114.42	2	1
4	A	389	PX4	O5-C9-C10	2.39	119.42	111.91	11	4
4	A	316	PX4	C26-C25-C24	2.39	104.59	113.19	15	4
4	A	329	PX4	O1-P1-O3	2.39	118.85	107.75	15	3
4	A	322	PX4	C13-C12-C11	2.39	102.29	114.42	5	2
4	A	350	PX4	C13-C12-C11	2.39	102.29	114.42	18	2
4	A	356	PX4	C28-C27-C26	2.39	102.29	114.42	3	2
4	A	357	PX4	C13-C12-C11	2.39	102.29	114.42	9	1
4	A	403	PX4	C34-C33-C32	2.39	102.29	114.42	13	2
4	A	424	PX4	C5-N1-C4	2.39	102.83	108.97	20	4
4	A	425	PX4	C27-C26-C25	2.39	102.29	114.42	8	2
4	A	305	PX4	O3-C1-C2	2.39	121.71	109.16	19	2
4	A	311	PX4	C26-C25-C24	2.39	104.61	113.19	9	2
4	A	316	PX4	C30-C29-C28	2.39	102.31	114.42	10	2
4	A	324	PX4	C8-O5-C9	2.39	108.28	117.12	17	4
4	A	358	PX4	O6-C9-C10	2.39	114.41	123.73	19	1
4	A	390	PX4	C4-N1-C2	2.39	100.14	109.92	9	2
4	A	423	PX4	C3-N1-C2	2.39	119.69	109.92	14	1
4	A	426	PX4	C15-C14-C13	2.39	102.30	114.42	18	1
4	A	342	PX4	O4-P1-O2	2.39	118.39	109.07	1	3
4	A	360	PX4	O8-C23-C24	2.39	114.42	123.73	11	2
4	A	365	PX4	C15-C14-C13	2.39	102.31	114.42	7	2
4	A	430	PX4	C19-C18-C17	2.39	102.30	114.42	6	2
4	A	343	PX4	C27-C26-C25	2.39	102.31	114.42	8	3
4	A	346	PX4	C30-C29-C28	2.39	102.31	114.42	7	4
4	A	348	PX4	C19-C18-C17	2.39	102.31	114.42	11	1
4	A	361	PX4	C20-C19-C18	2.39	102.31	114.42	14	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	397	PX4	C31-C30-C29	2.39	102.31	114.42	16	1
4	A	407	PX4	C31-C30-C29	2.39	102.31	114.42	1	1
4	A	412	PX4	C33-C32-C31	2.39	102.31	114.42	12	1
4	A	413	PX4	O1-P1-O3	2.39	96.67	107.75	14	3
4	A	335	PX4	C27-C26-C25	2.38	102.32	114.42	14	2
4	A	341	PX4	O3-P1-O2	2.38	99.75	109.07	13	4
4	A	345	PX4	C14-C13-C12	2.38	102.32	114.42	18	2
4	A	347	PX4	C30-C29-C28	2.38	102.32	114.42	15	2
4	A	392	PX4	O3-P1-O2	2.38	99.75	109.07	20	1
4	A	423	PX4	C5-N1-C2	2.38	119.67	109.92	12	2
4	A	396	PX4	C27-C26-C25	2.38	102.33	114.42	16	1
4	A	402	PX4	O8-C23-C24	2.38	114.44	123.73	17	2
4	A	425	PX4	C4-N1-C2	2.38	119.67	109.92	5	3
4	A	306	PX4	O7-C23-O8	2.38	117.95	123.70	14	1
4	A	316	PX4	C14-C13-C12	2.38	102.33	114.42	6	1
4	A	426	PX4	O6-C9-C10	2.38	114.43	123.73	7	1
4	A	340	PX4	C33-C32-C31	2.38	102.33	114.42	16	4
4	A	342	PX4	C3-N1-C2	2.38	119.66	109.92	16	2
4	A	361	PX4	C28-C27-C26	2.38	102.33	114.42	10	2
4	A	360	PX4	C4-N1-C3	2.38	102.85	108.97	16	2
4	A	367	PX4	C28-C27-C26	2.38	102.33	114.42	17	1
4	A	375	PX4	C27-C26-C25	2.38	102.34	114.42	9	1
4	A	401	PX4	C28-C27-C26	2.38	102.34	114.42	8	1
4	A	338	PX4	C4-N1-C2	2.38	119.65	109.92	7	3
4	A	309	PX4	C19-C18-C17	2.38	102.35	114.42	6	4
4	A	360	PX4	C15-C14-C13	2.38	102.35	114.42	12	1
4	A	384	PX4	C32-C31-C30	2.38	102.35	114.42	6	3
4	A	332	PX4	C5-N1-C2	2.38	119.64	109.92	19	2
4	A	376	PX4	C31-C30-C29	2.38	102.36	114.42	14	4
4	A	386	PX4	C18-C17-C16	2.38	102.36	114.42	13	2
4	A	334	PX4	C11-C10-C9	2.37	104.98	113.62	6	2
4	A	357	PX4	C25-C24-C23	2.37	104.98	113.62	19	1
4	A	378	PX4	C25-C24-C23	2.37	122.25	113.62	4	2
4	A	410	PX4	C19-C18-C17	2.37	102.37	114.42	13	1
4	A	415	PX4	C32-C31-C30	2.38	102.37	114.42	12	2
4	A	418	PX4	O1-P1-O3	2.38	96.71	107.75	2	3
4	A	312	PX4	O6-C9-C10	2.37	114.47	123.73	4	2
4	A	330	PX4	C20-C19-C18	2.37	102.38	114.42	20	2
4	A	378	PX4	C4-N1-C2	2.37	119.63	109.92	9	3
4	A	379	PX4	C29-C28-C27	2.37	102.38	114.42	12	1
4	A	389	PX4	O4-P1-O2	2.37	99.79	109.07	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	393	PX4	C30-C29-C28	2.37	102.37	114.42	16	2
4	A	337	PX4	O1-P1-O4	2.37	118.77	107.75	18	1
4	A	398	PX4	C29-C28-C27	2.37	102.38	114.42	18	2
4	A	321	PX4	O6-C9-C10	2.37	114.48	123.73	19	2
4	A	365	PX4	C28-C27-C26	2.37	102.38	114.42	9	2
4	A	424	PX4	C5-N1-C3	2.37	102.87	108.97	15	4
4	A	333	PX4	C3-N1-C2	2.37	119.62	109.92	14	1
4	A	370	PX4	C34-C33-C32	2.37	102.39	114.42	15	1
4	A	394	PX4	C8-O5-C9	2.37	108.34	117.12	13	4
4	A	408	PX4	C26-C25-C24	2.37	104.67	113.19	9	2
4	A	365	PX4	C13-C12-C11	2.37	102.40	114.42	12	1
4	A	374	PX4	C29-C28-C27	2.37	102.40	114.42	16	2
4	A	393	PX4	C29-C28-C27	2.37	102.40	114.42	13	2
4	A	395	PX4	C5-N1-C2	2.37	119.61	109.92	12	3
4	A	405	PX4	C29-C28-C27	2.37	102.40	114.42	11	1
4	A	405	PX4	C34-C33-C32	2.37	102.40	114.42	15	2
4	A	406	PX4	C29-C28-C27	2.37	102.41	114.42	6	2
4	A	413	PX4	C13-C12-C11	2.37	102.41	114.42	6	3
4	A	420	PX4	C12-C11-C10	2.37	104.68	113.19	20	1
4	A	333	PX4	C28-C27-C26	2.37	102.41	114.42	16	1
4	A	349	PX4	C15-C14-C13	2.37	102.41	114.42	13	1
4	A	360	PX4	C8-O5-C9	2.37	108.36	117.12	3	3
4	A	382	PX4	C31-C30-C29	2.37	102.42	114.42	19	1
4	A	390	PX4	C18-C17-C16	2.37	102.41	114.42	16	1
4	A	413	PX4	C15-C14-C13	2.37	102.41	114.42	5	1
4	A	393	PX4	C15-C14-C13	2.37	102.42	114.42	7	1
4	A	415	PX4	C18-C17-C16	2.37	102.41	114.42	13	1
4	A	352	PX4	C34-C33-C32	2.36	102.42	114.42	5	3
4	A	358	PX4	C4-N1-C2	2.37	119.59	109.92	14	2
4	A	321	PX4	C20-C19-C18	2.36	102.42	114.42	9	1
4	A	358	PX4	C33-C32-C31	2.36	102.42	114.42	20	1
4	A	421	PX4	C17-C16-C15	2.37	102.42	114.42	1	1
4	A	359	PX4	C20-C19-C18	2.36	102.42	114.42	5	1
4	A	409	PX4	C32-C31-C30	2.36	102.43	114.42	2	1
4	A	420	PX4	C31-C30-C29	2.36	102.42	114.42	10	2
4	A	421	PX4	C31-C30-C29	2.36	102.42	114.42	17	2
4	A	416	PX4	C18-C17-C16	2.36	102.43	114.42	4	2
4	A	420	PX4	C15-C14-C13	2.36	102.44	114.42	12	1
4	A	326	PX4	C4-N1-C2	2.36	119.58	109.92	2	2
4	A	322	PX4	C5-N1-C4	2.36	102.91	108.97	8	4
4	A	405	PX4	C16-C15-C14	2.36	102.44	114.42	20	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	323	PX4	C5-N1-C2	2.36	119.57	109.92	14	1
4	A	348	PX4	C12-C11-C10	2.36	104.71	113.19	15	1
4	A	414	PX4	C15-C14-C13	2.36	102.44	114.42	20	3
4	A	365	PX4	C32-C31-C30	2.36	102.45	114.42	13	3
4	A	417	PX4	O4-P1-O2	2.36	118.28	109.07	5	1
4	A	387	PX4	C33-C32-C31	2.36	102.45	114.42	5	1
4	A	331	PX4	C27-C26-C25	2.36	102.47	114.42	8	3
4	A	336	PX4	C29-C28-C27	2.36	102.46	114.42	2	5
4	A	337	PX4	C4-N1-C2	2.36	119.56	109.92	11	1
4	A	376	PX4	C29-C28-C27	2.36	102.46	114.42	10	3
4	A	384	PX4	C18-C17-C16	2.36	102.47	114.42	8	1
4	A	384	PX4	C8-O5-C9	2.36	108.40	117.12	11	4
4	A	388	PX4	C13-C12-C11	2.36	102.47	114.42	20	1
4	A	399	PX4	C20-C19-C18	2.36	102.46	114.42	8	2
4	A	400	PX4	C31-C30-C29	2.36	102.46	114.42	8	1
4	A	363	PX4	C11-C10-C9	2.36	105.05	113.62	2	3
4	A	403	PX4	C31-C30-C29	2.36	102.46	114.42	13	3
4	A	399	PX4	O6-C9-C10	2.36	114.54	123.73	8	1
4	A	307	PX4	C15-C14-C13	2.35	102.48	114.42	5	1
4	A	402	PX4	C11-C10-C9	2.35	105.06	113.62	4	1
4	A	377	PX4	C28-C27-C26	2.35	102.48	114.42	14	1
4	A	379	PX4	C33-C32-C31	2.35	102.47	114.42	17	2
4	A	386	PX4	C20-C19-C18	2.35	102.47	114.42	6	2
4	A	407	PX4	C30-C29-C28	2.35	102.47	114.42	7	2
4	A	428	PX4	C30-C29-C28	2.35	102.48	114.42	7	1
4	A	305	PX4	C14-C13-C12	2.35	102.49	114.42	8	2
4	A	347	PX4	C26-C25-C24	2.35	104.74	113.19	16	1
4	A	356	PX4	C4-N1-C2	2.35	119.54	109.92	5	2
4	A	369	PX4	C26-C25-C24	2.35	104.74	113.19	14	4
4	A	378	PX4	O3-C1-C2	2.35	121.53	109.16	19	1
4	A	308	PX4	C14-C13-C12	2.35	102.50	114.42	2	1
4	A	323	PX4	C11-C10-C9	2.35	105.08	113.62	11	2
4	A	341	PX4	C29-C28-C27	2.35	102.49	114.42	13	4
4	A	381	PX4	C25-C24-C23	2.35	105.07	113.62	5	2
4	A	329	PX4	C25-C24-C23	2.35	122.16	113.62	11	2
4	A	345	PX4	C4-N1-C2	2.35	119.53	109.92	6	1
4	A	359	PX4	C13-C12-C11	2.35	102.50	114.42	1	1
4	A	362	PX4	C5-N1-C4	2.35	102.93	108.97	2	2
4	A	373	PX4	C27-C26-C25	2.35	102.50	114.42	4	2
4	A	376	PX4	C34-C33-C32	2.35	102.50	114.42	15	1
4	A	329	PX4	O5-C9-C10	2.35	119.28	111.91	2	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	346	PX4	O1-P1-O4	2.35	118.65	107.75	5	3
4	A	371	PX4	C28-C27-C26	2.35	102.51	114.42	10	1
4	A	382	PX4	O3-C1-C2	2.35	121.50	109.16	3	3
4	A	396	PX4	C14-C13-C12	2.35	102.51	114.42	17	2
4	A	336	PX4	C27-C26-C25	2.35	102.52	114.42	2	2
4	A	373	PX4	C29-C28-C27	2.35	102.52	114.42	12	2
4	A	386	PX4	C17-C16-C15	2.35	102.52	114.42	18	1
4	A	427	PX4	C30-C29-C28	2.35	102.51	114.42	9	1
4	A	345	PX4	C32-C31-C30	2.35	102.52	114.42	8	2
4	A	354	PX4	O4-P1-O2	2.35	118.23	109.07	18	3
4	A	317	PX4	C15-C14-C13	2.34	102.53	114.42	10	3
4	A	320	PX4	C27-C26-C25	2.34	102.53	114.42	18	3
4	A	322	PX4	O3-C1-C2	2.34	121.48	109.16	15	4
4	A	341	PX4	C33-C32-C31	2.34	102.53	114.42	17	2
4	A	372	PX4	C11-C10-C9	2.34	105.09	113.62	1	1
4	A	324	PX4	C19-C18-C17	2.34	102.53	114.42	3	3
4	A	344	PX4	C20-C19-C18	2.34	102.53	114.42	6	2
4	A	346	PX4	C33-C32-C31	2.34	102.53	114.42	9	4
4	A	366	PX4	C25-C24-C23	2.34	105.10	113.62	12	3
4	A	376	PX4	C8-O5-C9	2.34	125.79	117.12	3	1
4	A	388	PX4	O6-C9-C10	2.34	114.59	123.73	6	1
4	A	341	PX4	C26-C25-C24	2.34	104.78	113.19	2	1
4	A	410	PX4	C28-C27-C26	2.34	102.54	114.42	13	1
4	A	412	PX4	C30-C29-C28	2.34	102.54	114.42	4	2
4	A	310	PX4	C32-C31-C30	2.34	102.55	114.42	8	1
4	A	344	PX4	C17-C16-C15	2.34	102.55	114.42	19	1
4	A	350	PX4	O8-C23-C24	2.34	114.61	123.73	8	1
4	A	403	PX4	O1-P1-O3	2.34	96.88	107.75	15	3
4	A	308	PX4	C31-C30-C29	2.34	102.56	114.42	10	2
4	A	315	PX4	C5-N1-C3	2.34	114.98	108.97	9	2
4	A	333	PX4	C13-C12-C11	2.34	102.56	114.42	16	3
4	A	344	PX4	C8-O5-C9	2.34	108.47	117.12	12	1
4	A	356	PX4	O3-C1-C2	2.34	121.45	109.16	10	2
4	A	358	PX4	C14-C13-C12	2.34	102.56	114.42	3	1
4	A	379	PX4	C11-C10-C9	2.34	105.12	113.62	20	2
4	A	376	PX4	C26-C25-C24	2.34	104.79	113.19	10	2
4	A	394	PX4	C28-C27-C26	2.34	102.56	114.42	5	3
4	A	397	PX4	C29-C28-C27	2.34	102.56	114.42	2	2
4	A	340	PX4	C34-C33-C32	2.34	102.57	114.42	18	3
4	A	353	PX4	C3-N1-C2	2.34	100.36	109.92	4	1
4	A	354	PX4	C4-N1-C2	2.34	119.47	109.92	13	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	383	PX4	O4-P1-O2	2.34	99.94	109.07	7	3
4	A	426	PX4	C29-C28-C27	2.34	102.56	114.42	14	3
4	A	315	PX4	C12-C11-C10	2.33	104.80	113.19	11	2
4	A	344	PX4	C5-N1-C2	2.33	119.47	109.92	12	2
4	A	371	PX4	O8-C23-C24	2.33	114.63	123.73	16	2
4	A	378	PX4	O4-P1-O2	2.33	99.94	109.07	2	2
4	A	396	PX4	O1-P1-O4	2.33	118.59	107.75	1	1
4	A	327	PX4	C5-N1-C2	2.33	119.46	109.92	7	1
4	A	403	PX4	C4-N1-C2	2.33	100.37	109.92	14	2
4	A	405	PX4	C4-N1-C2	2.33	100.37	109.92	2	2
4	A	391	PX4	C19-C18-C17	2.33	102.58	114.42	9	4
4	A	415	PX4	C33-C32-C31	2.33	102.58	114.42	6	1
4	A	328	PX4	C5-N1-C3	2.33	102.98	108.97	16	4
4	A	405	PX4	C30-C29-C28	2.33	102.59	114.42	7	3
4	A	416	PX4	O6-C9-C10	2.33	114.63	123.73	7	1
4	A	338	PX4	C5-N1-C2	2.33	100.38	109.92	9	1
4	A	323	PX4	C34-C33-C32	2.33	102.60	114.42	15	2
4	A	325	PX4	C13-C12-C11	2.33	102.60	114.42	9	1
4	A	348	PX4	C17-C16-C15	2.33	102.60	114.42	3	1
4	A	377	PX4	C20-C19-C18	2.33	102.59	114.42	16	3
4	A	395	PX4	O6-C9-C10	2.33	114.64	123.73	14	2
4	A	373	PX4	O3-C1-C2	2.33	121.41	109.16	3	2
4	A	389	PX4	C16-C15-C14	2.33	102.60	114.42	11	1
4	A	393	PX4	C28-C27-C26	2.33	102.60	114.42	14	1
4	A	325	PX4	C20-C19-C18	2.33	102.60	114.42	13	3
4	A	362	PX4	C14-C13-C12	2.33	102.61	114.42	16	1
4	A	367	PX4	C26-C25-C24	2.33	121.56	113.19	6	2
4	A	402	PX4	C3-N1-C2	2.33	119.44	109.92	20	1
4	A	404	PX4	C20-C19-C18	2.33	102.61	114.42	9	2
4	A	417	PX4	C16-C15-C14	2.33	102.61	114.42	4	2
4	A	418	PX4	C3-N1-C2	2.33	100.39	109.92	11	4
4	A	318	PX4	C33-C32-C31	2.33	102.62	114.42	20	2
4	A	348	PX4	C15-C14-C13	2.33	102.61	114.42	11	1
4	A	319	PX4	C30-C29-C28	2.33	102.62	114.42	9	1
4	A	351	PX4	C31-C30-C29	2.33	102.61	114.42	18	1
4	A	327	PX4	C28-C27-C26	2.33	102.62	114.42	17	1
4	A	310	PX4	C29-C28-C27	2.32	102.63	114.42	18	1
4	A	313	PX4	C13-C12-C11	2.32	102.63	114.42	7	3
4	A	365	PX4	C4-N1-C2	2.32	119.42	109.92	20	1
4	A	374	PX4	C31-C30-C29	2.32	102.63	114.42	5	1
4	A	385	PX4	C15-C14-C13	2.32	126.22	114.42	7	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	410	PX4	O6-C9-C10	2.32	114.67	123.73	11	2
4	A	411	PX4	C13-C12-C11	2.32	102.62	114.42	4	2
4	A	322	PX4	C16-C15-C14	2.32	102.63	114.42	7	1
4	A	329	PX4	C17-C16-C15	2.32	102.64	114.42	19	1
4	A	339	PX4	C18-C17-C16	2.32	102.64	114.42	8	2
4	A	340	PX4	C30-C29-C28	2.32	102.63	114.42	16	3
4	A	353	PX4	C13-C12-C11	2.32	102.63	114.42	7	1
4	A	389	PX4	C30-C29-C28	2.32	102.64	114.42	9	1
4	A	400	PX4	C14-C13-C12	2.32	102.63	114.42	4	4
4	A	413	PX4	O6-C9-C10	2.32	132.80	123.73	19	1
4	A	415	PX4	C4-N1-C2	2.32	119.42	109.92	18	1
4	A	406	PX4	C32-C31-C30	2.32	102.64	114.42	2	1
4	A	316	PX4	C5-N1-C4	2.32	114.94	108.97	11	1
4	A	338	PX4	O1-P1-O4	2.32	118.52	107.75	6	1
4	A	339	PX4	C28-C27-C26	2.32	102.65	114.42	20	1
4	A	389	PX4	O6-C9-C10	2.32	132.78	123.73	1	2
4	A	395	PX4	C11-C10-C9	2.32	105.18	113.62	1	2
4	A	368	PX4	C31-C30-C29	2.32	102.65	114.42	14	3
4	A	402	PX4	C13-C12-C11	2.32	102.65	114.42	3	1
4	A	411	PX4	C5-N1-C2	2.32	100.43	109.92	19	2
4	A	417	PX4	C5-N1-C2	2.32	119.40	109.92	10	2
4	A	425	PX4	C29-C28-C27	2.32	102.65	114.42	10	4
4	A	315	PX4	C11-C10-C9	2.32	105.19	113.62	16	1
4	A	343	PX4	C36-C35-C34	2.32	95.83	113.42	16	1
4	A	368	PX4	C28-C27-C26	2.32	102.66	114.42	12	1
4	A	383	PX4	C3-N1-C2	2.32	119.40	109.92	16	2
4	A	315	PX4	O4-P1-O2	2.32	118.11	109.07	10	1
4	A	348	PX4	C4-N1-C2	2.31	100.44	109.92	19	1
4	A	356	PX4	C5-N1-C2	2.32	119.39	109.92	11	2
4	A	423	PX4	C4-N1-C2	2.32	100.44	109.92	8	1
4	A	428	PX4	O4-P1-O2	2.32	118.11	109.07	3	2
4	A	428	PX4	C33-C32-C31	2.32	102.67	114.42	16	1
4	A	307	PX4	C32-C31-C30	2.31	102.68	114.42	4	1
4	A	370	PX4	C15-C14-C13	2.32	102.67	114.42	1	2
4	A	384	PX4	C29-C28-C27	2.31	102.68	114.42	11	1
4	A	394	PX4	C34-C33-C32	2.31	102.67	114.42	6	2
4	A	391	PX4	C5-N1-C4	2.31	103.03	108.97	3	3
4	A	413	PX4	C3-N1-C2	2.31	100.45	109.92	6	2
4	A	422	PX4	C15-C14-C13	2.31	102.67	114.42	18	2
4	A	312	PX4	C34-C33-C32	2.31	102.68	114.42	5	2
4	A	338	PX4	C8-O5-C9	2.31	108.56	117.12	9	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	359	PX4	O6-C9-C10	2.31	132.76	123.73	7	1
4	A	313	PX4	C28-C27-C26	2.31	102.69	114.42	12	2
4	A	330	PX4	O3-C1-C2	2.31	121.32	109.16	17	1
4	A	361	PX4	C15-C14-C13	2.31	102.69	114.42	4	1
4	A	376	PX4	C15-C14-C13	2.31	102.69	114.42	8	1
4	A	395	PX4	C28-C27-C26	2.31	102.68	114.42	1	1
4	A	401	PX4	C26-C25-C24	2.31	104.88	113.19	5	3
4	A	404	PX4	O3-C1-C2	2.31	121.33	109.16	4	3
4	A	314	PX4	C15-C14-C13	2.31	102.69	114.42	11	1
4	A	343	PX4	C30-C29-C28	2.31	102.69	114.42	2	2
4	A	371	PX4	C25-C24-C23	2.31	122.03	113.62	12	2
4	A	416	PX4	C29-C28-C27	2.31	102.69	114.42	2	1
4	A	326	PX4	C31-C30-C29	2.31	102.70	114.42	16	1
4	A	331	PX4	O1-P1-O4	2.31	118.47	107.75	12	1
4	A	333	PX4	C17-C16-C15	2.31	102.70	114.42	2	1
4	A	374	PX4	C11-C10-C9	2.31	105.22	113.62	19	1
4	A	344	PX4	C27-C26-C25	2.31	102.70	114.42	6	1
4	A	418	PX4	C32-C31-C30	2.31	102.70	114.42	11	2
4	A	328	PX4	C5-N1-C2	2.31	119.36	109.92	9	2
4	A	333	PX4	C16-C15-C14	2.31	102.71	114.42	10	2
4	A	351	PX4	C29-C28-C27	2.31	102.70	114.42	11	1
4	A	400	PX4	C5-N1-C2	2.31	119.36	109.92	1	1
4	A	430	PX4	O1-P1-O4	2.31	118.47	107.75	2	3
4	A	403	PX4	C32-C31-C30	2.31	102.71	114.42	8	1
4	A	305	PX4	C13-C12-C11	2.31	102.72	114.42	11	2
4	A	315	PX4	C19-C18-C17	2.31	102.72	114.42	16	1
4	A	322	PX4	C11-C10-C9	2.31	105.23	113.62	17	2
4	A	335	PX4	C33-C32-C31	2.31	102.72	114.42	14	1
4	A	352	PX4	O3-C1-C2	2.31	121.29	109.16	17	2
4	A	373	PX4	C15-C14-C13	2.31	102.72	114.42	12	1
4	A	408	PX4	C19-C18-C17	2.31	102.72	114.42	9	2
4	A	413	PX4	C12-C11-C10	2.31	104.90	113.19	12	1
4	A	426	PX4	C32-C31-C30	2.31	102.71	114.42	9	1
4	A	357	PX4	O3-C1-C2	2.31	121.28	109.16	14	2
4	A	365	PX4	C20-C19-C18	2.31	102.72	114.42	6	2
4	A	419	PX4	C4-N1-C2	2.31	119.35	109.92	7	3
4	A	425	PX4	O4-P1-O2	2.31	118.07	109.07	10	2
4	A	427	PX4	C8-O5-C9	2.31	108.58	117.12	19	3
4	A	368	PX4	C30-C29-C28	2.30	102.73	114.42	16	1
4	A	377	PX4	O3-C1-C2	2.30	121.28	109.16	17	2
4	A	377	PX4	C18-C17-C16	2.30	102.73	114.42	18	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	385	PX4	O1-P1-O4	2.30	97.05	107.75	12	1
4	A	402	PX4	C20-C19-C18	2.30	102.73	114.42	11	3
4	A	430	PX4	C29-C28-C27	2.30	102.72	114.42	3	2
4	A	312	PX4	C18-C17-C16	2.30	102.73	114.42	15	2
4	A	312	PX4	C12-C11-C10	2.30	104.91	113.19	19	1
4	A	327	PX4	O1-P1-O4	2.30	118.44	107.75	7	1
4	A	334	PX4	C12-C11-C10	2.30	104.91	113.19	4	2
4	A	346	PX4	C31-C30-C29	2.30	102.74	114.42	3	1
4	A	351	PX4	C8-O5-C9	2.30	108.59	117.12	10	1
4	A	362	PX4	O8-C23-C24	2.30	114.75	123.73	13	2
4	A	364	PX4	C15-C14-C13	2.30	102.73	114.42	3	4
4	A	406	PX4	C31-C30-C29	2.30	102.73	114.42	9	1
4	A	413	PX4	C18-C17-C16	2.30	102.73	114.42	3	1
4	A	417	PX4	O1-P1-O3	2.30	97.05	107.75	20	2
4	A	383	PX4	C18-C17-C16	2.30	102.74	114.42	4	1
4	A	355	PX4	C29-C28-C27	2.30	102.75	114.42	6	1
4	A	380	PX4	C12-C11-C10	2.30	104.93	113.19	19	3
4	A	385	PX4	C16-C15-C14	2.30	102.76	114.42	11	2
4	A	401	PX4	C4-N1-C2	2.30	119.32	109.92	6	2
4	A	403	PX4	C28-C27-C26	2.30	102.75	114.42	11	2
4	A	422	PX4	C16-C15-C14	2.30	102.75	114.42	6	1
4	A	425	PX4	O6-C9-C10	2.30	114.76	123.73	20	1
4	A	332	PX4	C12-C11-C10	2.30	104.93	113.19	5	2
4	A	409	PX4	C33-C32-C31	2.30	102.76	114.42	19	1
4	A	413	PX4	C26-C25-C24	2.30	104.93	113.19	9	1
4	A	356	PX4	C18-C17-C16	2.30	102.77	114.42	13	2
4	A	424	PX4	C13-C12-C11	2.30	102.76	114.42	20	1
4	A	415	PX4	O8-C23-C24	2.30	114.78	123.73	2	1
4	A	305	PX4	C18-C17-C16	2.29	102.78	114.42	17	1
4	A	329	PX4	C19-C18-C17	2.29	102.78	114.42	6	1
4	A	388	PX4	C14-C13-C12	2.29	102.78	114.42	10	1
4	A	309	PX4	O3-C1-C2	2.29	121.21	109.16	6	2
4	A	306	PX4	C34-C33-C32	2.29	102.80	114.42	19	1
4	A	314	PX4	C13-C12-C11	2.29	102.79	114.42	8	1
4	A	346	PX4	C12-C11-C10	2.29	104.95	113.19	5	2
4	A	422	PX4	C5-N1-C2	2.29	100.54	109.92	16	1
4	A	317	PX4	C33-C32-C31	2.29	102.80	114.42	14	1
4	A	325	PX4	C29-C28-C27	2.29	102.80	114.42	8	1
4	A	327	PX4	C12-C11-C10	2.29	104.96	113.19	5	2
4	A	376	PX4	O8-C23-C24	2.29	114.80	123.73	3	1
4	A	396	PX4	O6-C9-C10	2.29	114.80	123.73	1	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	404	PX4	C33-C32-C31	2.29	102.80	114.42	8	2
4	A	424	PX4	C34-C33-C32	2.29	102.80	114.42	5	2
4	A	430	PX4	C18-C17-C16	2.29	126.05	114.42	17	1
4	A	369	PX4	C16-C15-C14	2.29	102.80	114.42	18	2
4	A	308	PX4	O8-C23-C24	2.29	114.81	123.73	13	2
4	A	342	PX4	C19-C18-C17	2.29	102.81	114.42	1	1
4	A	364	PX4	C8-O5-C9	2.29	108.65	117.12	18	3
4	A	382	PX4	C5-N1-C2	2.29	100.55	109.92	14	2
4	A	422	PX4	C3-N1-C2	2.29	100.55	109.92	13	2
4	A	331	PX4	O1-P1-O3	2.29	97.12	107.75	1	1
4	A	332	PX4	C14-C13-C12	2.29	102.81	114.42	11	2
4	A	324	PX4	O1-P1-O3	2.29	118.36	107.75	1	2
4	A	333	PX4	C20-C19-C18	2.29	102.81	114.42	10	3
4	A	376	PX4	C17-C16-C15	2.29	102.81	114.42	16	1
4	A	401	PX4	C14-C13-C12	2.29	102.81	114.42	3	2
4	A	410	PX4	C29-C28-C27	2.29	102.82	114.42	12	1
4	A	413	PX4	O1-P1-O4	2.29	118.37	107.75	6	1
4	A	377	PX4	C4-N1-C2	2.29	100.56	109.92	17	1
4	A	311	PX4	O3-C1-C2	2.28	121.17	109.16	13	2
4	A	316	PX4	C16-C15-C14	2.28	102.83	114.42	10	1
4	A	325	PX4	C31-C30-C29	2.28	102.83	114.42	7	2
4	A	384	PX4	C3-N1-C2	2.28	100.57	109.92	16	1
4	A	386	PX4	C29-C28-C27	2.28	102.83	114.42	5	1
4	A	418	PX4	C31-C30-C29	2.28	102.83	114.42	3	1
4	A	331	PX4	C11-C10-C9	2.28	105.32	113.62	8	1
4	A	339	PX4	C5-N1-C2	2.28	100.57	109.92	10	1
4	A	340	PX4	C29-C28-C27	2.28	102.83	114.42	15	3
4	A	396	PX4	O8-C23-C24	2.28	114.83	123.73	6	2
4	A	322	PX4	O8-C23-C24	2.28	114.84	123.73	11	1
4	A	342	PX4	O8-C23-C24	2.28	132.63	123.73	16	1
4	A	385	PX4	C13-C12-C11	2.28	102.85	114.42	17	1
4	A	403	PX4	O6-C9-C10	2.28	114.83	123.73	19	1
4	A	423	PX4	C19-C18-C17	2.28	102.85	114.42	2	1
4	A	429	PX4	C18-C17-C16	2.28	102.84	114.42	17	3
4	A	325	PX4	C34-C33-C32	2.28	102.85	114.42	16	3
4	A	362	PX4	C18-C17-C16	2.28	102.85	114.42	2	1
4	A	393	PX4	C13-C12-C11	2.28	102.85	114.42	12	2
4	A	429	PX4	C20-C19-C18	2.28	102.85	114.42	16	1
4	A	307	PX4	O1-P1-O4	2.28	118.32	107.75	12	2
4	A	310	PX4	O8-C23-C24	2.28	114.85	123.73	19	1
4	A	317	PX4	C30-C29-C28	2.28	102.86	114.42	17	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	330	PX4	C31-C30-C29	2.28	102.87	114.42	20	2
4	A	339	PX4	C31-C30-C29	2.28	102.86	114.42	7	2
4	A	344	PX4	O3-C1-C2	2.28	121.14	109.16	19	1
4	A	376	PX4	C33-C32-C31	2.28	102.86	114.42	5	2
4	A	380	PX4	C28-C27-C26	2.28	102.87	114.42	16	1
4	A	385	PX4	C34-C33-C32	2.28	102.86	114.42	5	1
4	A	363	PX4	C31-C30-C29	2.28	102.87	114.42	2	1
4	A	363	PX4	C12-C11-C10	2.28	105.01	113.19	14	1
4	A	310	PX4	C5-N1-C2	2.27	119.22	109.92	19	1
4	A	311	PX4	C4-N1-C2	2.27	100.61	109.92	5	2
4	A	369	PX4	C29-C28-C27	2.28	102.87	114.42	8	1
4	A	379	PX4	O1-P1-O3	2.28	118.31	107.75	4	4
4	A	381	PX4	C15-C14-C13	2.28	102.87	114.42	1	1
4	A	384	PX4	C14-C13-C12	2.27	102.88	114.42	16	2
4	A	407	PX4	C5-N1-C2	2.28	119.23	109.92	5	1
4	A	413	PX4	C5-N1-C2	2.28	119.23	109.92	6	3
4	A	323	PX4	C5-N1-C3	2.27	103.13	108.97	6	1
4	A	336	PX4	C3-N1-C2	2.27	119.22	109.92	11	1
4	A	408	PX4	C30-C29-C28	2.27	102.88	114.42	17	1
4	A	429	PX4	O6-C9-C10	2.27	114.86	123.73	20	2
4	A	327	PX4	C8-O5-C9	2.27	108.70	117.12	11	1
4	A	314	PX4	C14-C13-C12	2.27	102.90	114.42	10	2
4	A	375	PX4	C3-N1-C2	2.27	119.21	109.92	7	3
4	A	422	PX4	C20-C19-C18	2.27	102.90	114.42	20	1
4	A	326	PX4	C25-C24-C23	2.27	105.37	113.62	18	1
4	A	345	PX4	C27-C26-C25	2.27	102.90	114.42	19	2
4	A	392	PX4	O3-C1-C2	2.27	121.10	109.16	5	1
4	A	333	PX4	O8-C23-C24	2.27	114.89	123.73	14	2
4	A	351	PX4	C4-N1-C2	2.27	100.64	109.92	9	4
5	A	433	C3S	C54-C57-C60	2.27	123.66	113.24	20	1
4	A	324	PX4	C31-C30-C29	2.27	102.92	114.42	5	3
4	A	361	PX4	C31-C30-C29	2.27	102.92	114.42	17	1
4	A	383	PX4	C11-C10-C9	2.27	105.38	113.62	11	1
4	A	327	PX4	C4-N1-C2	2.26	119.18	109.92	2	2
4	A	319	PX4	C27-C26-C25	2.26	102.93	114.42	3	1
4	A	353	PX4	O1-P1-O4	2.26	118.26	107.75	4	1
4	A	353	PX4	C29-C28-C27	2.26	102.93	114.42	7	2
4	A	362	PX4	C5-N1-C3	2.26	103.15	108.97	1	1
4	A	369	PX4	O4-P1-O2	2.26	117.91	109.07	10	2
4	A	384	PX4	C16-C15-C14	2.26	102.93	114.42	19	2
4	A	391	PX4	C25-C24-C23	2.26	105.39	113.62	16	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	402	PX4	O6-C9-C10	2.26	114.90	123.73	20	1
4	A	404	PX4	C14-C13-C12	2.27	102.92	114.42	15	2
4	A	384	PX4	C5-N1-C2	2.26	119.18	109.92	10	2
4	A	430	PX4	C11-C10-C9	2.26	105.39	113.62	10	2
4	A	343	PX4	C28-C27-C26	2.26	102.94	114.42	13	1
4	A	405	PX4	C14-C13-C12	2.26	102.94	114.42	10	2
4	A	345	PX4	C30-C29-C28	2.26	102.95	114.42	13	2
4	A	366	PX4	C12-C11-C10	2.26	105.06	113.19	5	3
4	A	386	PX4	C16-C15-C14	2.26	102.95	114.42	8	1
4	A	310	PX4	C25-C24-C23	2.26	121.83	113.62	14	2
4	A	391	PX4	C20-C19-C18	2.26	102.96	114.42	10	2
4	A	427	PX4	C33-C32-C31	2.26	102.96	114.42	17	2
4	A	334	PX4	C33-C32-C31	2.26	102.96	114.42	9	1
4	A	309	PX4	C17-C16-C15	2.26	102.97	114.42	3	1
4	A	351	PX4	C18-C17-C16	2.26	102.97	114.42	19	2
4	A	356	PX4	C34-C33-C32	2.26	102.97	114.42	9	1
4	A	429	PX4	O1-P1-O3	2.26	97.26	107.75	19	3
4	A	390	PX4	C14-C13-C12	2.26	102.97	114.42	3	2
5	A	436	C3S	C26-C23-C20	2.26	117.03	113.11	15	2
4	A	364	PX4	C14-C13-C12	2.26	102.98	114.42	7	1
4	A	313	PX4	C34-C33-C32	2.25	102.98	114.42	10	1
4	A	383	PX4	O6-C9-C10	2.25	114.94	123.73	9	1
4	A	388	PX4	O1-P1-O4	2.25	97.28	107.75	13	3
4	A	372	PX4	C18-C17-C16	2.25	125.86	114.42	10	1
4	A	313	PX4	O1-P1-O3	2.25	97.29	107.75	2	1
4	A	325	PX4	C28-C27-C26	2.25	103.00	114.42	17	1
4	A	367	PX4	C16-C15-C14	2.25	102.99	114.42	3	1
4	A	403	PX4	C25-C24-C23	2.25	105.43	113.62	12	1
4	A	410	PX4	C31-C30-C29	2.25	102.99	114.42	14	1
4	A	338	PX4	C30-C29-C28	2.25	103.00	114.42	7	4
4	A	343	PX4	O6-C9-C10	2.25	114.95	123.73	15	2
4	A	411	PX4	C3-N1-C2	2.25	119.13	109.92	3	2
4	A	423	PX4	C29-C28-C27	2.25	103.00	114.42	19	1
4	A	350	PX4	C19-C18-C17	2.25	103.00	114.42	6	2
4	A	358	PX4	C34-C33-C32	2.25	103.01	114.42	4	1
4	A	372	PX4	C14-C13-C12	2.25	103.01	114.42	13	2
4	A	376	PX4	C27-C26-C25	2.25	103.01	114.42	12	3
4	A	403	PX4	C3-N1-C2	2.25	119.12	109.92	10	1
4	A	354	PX4	C33-C32-C31	2.25	103.02	114.42	15	1
4	A	361	PX4	C14-C13-C12	2.25	103.01	114.42	7	3
4	A	389	PX4	O8-C23-C24	2.25	114.96	123.73	3	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	314	PX4	C33-C32-C31	2.25	103.02	114.42	20	1
4	A	385	PX4	C29-C28-C27	2.25	103.02	114.42	16	2
4	A	395	PX4	C17-C16-C15	2.25	103.01	114.42	16	2
4	A	305	PX4	C16-C15-C14	2.25	103.03	114.42	2	1
4	A	308	PX4	C29-C28-C27	2.25	103.02	114.42	5	1
4	A	314	PX4	C17-C16-C15	2.25	103.03	114.42	1	1
4	A	317	PX4	C32-C31-C30	2.25	103.02	114.42	9	1
4	A	326	PX4	C16-C15-C14	2.25	103.02	114.42	15	1
4	A	327	PX4	C31-C30-C29	2.25	103.03	114.42	18	1
4	A	343	PX4	C25-C24-C23	2.25	105.45	113.62	7	1
4	A	363	PX4	C30-C29-C28	2.25	103.02	114.42	12	3
4	A	414	PX4	C4-N1-C2	2.25	119.11	109.92	1	1
4	A	398	PX4	C3-N1-C2	2.25	119.11	109.92	4	2
4	A	370	PX4	C26-C25-C24	2.24	105.12	113.19	16	1
4	A	320	PX4	C32-C31-C30	2.24	103.04	114.42	10	1
4	A	350	PX4	C18-C17-C16	2.24	103.04	114.42	19	1
4	A	385	PX4	C33-C32-C31	2.24	103.04	114.42	19	1
4	A	419	PX4	O3-C1-C2	2.24	120.96	109.16	15	2
4	A	319	PX4	C28-C27-C26	2.24	103.05	114.42	15	2
4	A	358	PX4	C30-C29-C28	2.24	103.05	114.42	18	1
4	A	410	PX4	C26-C25-C24	2.24	105.13	113.19	4	2
4	A	408	PX4	O8-C23-C24	2.24	114.99	123.73	5	2
4	A	425	PX4	C31-C30-C29	2.24	103.05	114.42	12	1
4	A	382	PX4	C26-C25-C24	2.24	105.14	113.19	7	2
4	A	391	PX4	O8-C23-C24	2.24	115.00	123.73	4	1
4	A	393	PX4	C8-O5-C9	2.24	108.84	117.12	5	1
4	A	404	PX4	C16-C15-C14	2.24	103.06	114.42	1	1
4	A	414	PX4	C20-C19-C18	2.24	103.06	114.42	3	1
4	A	306	PX4	O3-C1-C2	2.24	120.92	109.16	7	3
4	A	336	PX4	C21-C20-C19	2.24	94.54	115.30	14	1
5	A	434	C3S	C57-C54-C48	2.24	108.60	115.03	13	1
4	A	314	PX4	C3-N1-C2	2.23	119.06	109.92	12	3
4	A	350	PX4	O3-C1-C2	2.24	120.91	109.16	16	1
4	A	336	PX4	C11-C10-C9	2.23	105.50	113.62	18	2
4	A	358	PX4	C8-O5-C9	2.23	125.39	117.12	5	3
4	A	369	PX4	C34-C33-C32	2.23	103.08	114.42	11	3
4	A	372	PX4	O8-C23-C24	2.23	115.02	123.73	9	1
4	A	383	PX4	C30-C29-C28	2.23	103.08	114.42	14	1
4	A	415	PX4	C30-C29-C28	2.23	103.08	114.42	13	1
4	A	306	PX4	C12-C11-C10	2.23	105.17	113.19	1	2
4	A	308	PX4	C13-C12-C11	2.23	103.10	114.42	4	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	309	PX4	C28-C27-C26	2.23	103.10	114.42	5	2
4	A	311	PX4	C27-C26-C25	2.23	103.10	114.42	9	1
4	A	345	PX4	C15-C14-C13	2.23	103.09	114.42	4	1
4	A	374	PX4	C8-O5-C9	2.23	108.85	117.12	5	2
4	A	381	PX4	C16-C15-C14	2.23	103.09	114.42	7	2
4	A	376	PX4	C25-C24-C23	2.23	105.51	113.62	6	1
4	A	385	PX4	C20-C19-C18	2.23	103.10	114.42	15	2
4	A	408	PX4	C33-C32-C31	2.23	103.09	114.42	3	1
4	A	419	PX4	C13-C12-C11	2.23	103.09	114.42	20	3
4	A	335	PX4	C20-C19-C18	2.23	103.10	114.42	8	1
4	A	307	PX4	O1-P1-O3	2.23	97.39	107.75	18	2
4	A	354	PX4	C19-C18-C17	2.23	103.11	114.42	14	1
4	A	418	PX4	C29-C28-C27	2.23	103.11	114.42	15	2
4	A	430	PX4	O5-C9-O6	2.23	117.97	123.59	18	3
4	A	341	PX4	C28-C27-C26	2.23	103.12	114.42	16	1
4	A	342	PX4	O3-C1-C2	2.23	120.88	109.16	9	1
4	A	343	PX4	C33-C32-C31	2.23	103.11	114.42	14	4
4	A	358	PX4	C5-N1-C2	2.23	119.03	109.92	20	1
4	A	361	PX4	C16-C15-C14	2.23	103.11	114.42	1	1
4	A	361	PX4	C32-C31-C30	2.23	103.11	114.42	12	1
4	A	310	PX4	C16-C15-C14	2.23	103.12	114.42	18	3
4	A	332	PX4	C27-C26-C25	2.23	103.12	114.42	6	1
4	A	370	PX4	C3-N1-C2	2.23	119.03	109.92	8	1
4	A	307	PX4	C27-C26-C25	2.23	103.13	114.42	15	2
4	A	340	PX4	C17-C16-C15	2.23	103.12	114.42	12	2
4	A	345	PX4	O3-C1-C2	2.23	120.87	109.16	14	3
4	A	359	PX4	C14-C13-C12	2.23	103.12	114.42	8	1
4	A	386	PX4	C19-C18-C17	2.23	103.12	114.42	10	1
4	A	389	PX4	C3-N1-C2	2.23	119.03	109.92	3	1
4	A	392	PX4	C3-N1-C2	2.23	119.03	109.92	2	1
4	A	353	PX4	C17-C16-C15	2.22	103.13	114.42	15	2
4	A	365	PX4	C3-N1-C2	2.23	119.02	109.92	17	2
4	A	378	PX4	C19-C18-C17	2.22	103.13	114.42	4	1
4	A	396	PX4	C3-N1-C2	2.22	119.02	109.92	18	2
4	A	310	PX4	C12-C11-C10	2.22	121.18	113.19	11	2
4	A	326	PX4	C30-C29-C28	2.22	103.14	114.42	4	3
4	A	426	PX4	C34-C33-C32	2.22	103.13	114.42	5	1
4	A	343	PX4	C17-C16-C15	2.22	103.14	114.42	1	1
4	A	397	PX4	C33-C32-C31	2.22	103.14	114.42	5	2
4	A	324	PX4	O1-P1-O4	2.22	118.06	107.75	14	3
4	A	339	PX4	C15-C14-C13	2.22	103.16	114.42	2	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	357	PX4	C29-C28-C27	2.22	103.15	114.42	14	1
4	A	366	PX4	O3-C1-C2	2.22	120.84	109.16	6	1
4	A	390	PX4	C27-C26-C25	2.22	103.15	114.42	1	3
4	A	411	PX4	C17-C16-C15	2.22	103.15	114.42	14	3
4	A	313	PX4	C20-C19-C18	2.22	103.16	114.42	9	1
4	A	314	PX4	C11-C10-C9	2.22	105.55	113.62	2	3
4	A	319	PX4	C18-C17-C16	2.22	103.17	114.42	16	1
4	A	364	PX4	C28-C27-C26	2.22	103.16	114.42	10	1
4	A	374	PX4	C17-C16-C15	2.22	103.16	114.42	18	1
4	A	376	PX4	O3-P1-O2	2.22	100.40	109.07	6	2
4	A	407	PX4	C16-C15-C14	2.22	103.16	114.42	7	2
4	A	311	PX4	C13-C12-C11	2.22	103.17	114.42	19	5
4	A	330	PX4	C29-C28-C27	2.22	103.17	114.42	7	1
4	A	339	PX4	C29-C28-C27	2.22	103.17	114.42	7	1
4	A	371	PX4	C30-C29-C28	2.22	103.17	114.42	3	4
4	A	383	PX4	C20-C19-C18	2.22	103.17	114.42	10	2
4	A	384	PX4	C17-C16-C15	2.22	103.17	114.42	18	3
4	A	424	PX4	C33-C32-C31	2.22	103.17	114.42	6	2
4	A	426	PX4	C18-C17-C16	2.22	103.17	114.42	1	1
4	A	311	PX4	C16-C15-C14	2.21	103.18	114.42	15	3
4	A	330	PX4	C28-C27-C26	2.22	103.18	114.42	18	1
4	A	362	PX4	O1-P1-O3	2.21	97.46	107.75	11	4
4	A	371	PX4	C18-C17-C16	2.22	103.18	114.42	20	1
4	A	409	PX4	O3-C1-C2	2.22	120.81	109.16	5	2
4	A	327	PX4	O3-C1-C2	2.21	120.80	109.16	3	3
4	A	373	PX4	O1-P1-O3	2.21	97.46	107.75	8	2
4	A	388	PX4	C32-C31-C30	2.21	103.18	114.42	10	1
4	A	331	PX4	C30-C29-C28	2.21	103.19	114.42	1	2
4	A	391	PX4	C34-C33-C32	2.21	103.19	114.42	1	1
4	A	404	PX4	O1-P1-O3	2.21	97.47	107.75	5	1
4	A	405	PX4	C5-N1-C2	2.21	118.97	109.92	8	2
4	A	306	PX4	C13-C12-C11	2.21	103.21	114.42	16	1
4	A	324	PX4	C13-C12-C11	2.21	103.21	114.42	18	2
4	A	352	PX4	C19-C18-C17	2.21	103.21	114.42	15	2
4	A	403	PX4	C17-C16-C15	2.21	103.20	114.42	13	1
4	A	327	PX4	O4-P1-O2	2.21	117.70	109.07	13	1
4	A	372	PX4	C34-C33-C32	2.21	103.22	114.42	8	1
4	A	402	PX4	O1-P1-O4	2.21	118.00	107.75	5	1
4	A	403	PX4	C19-C18-C17	2.21	103.21	114.42	9	3
4	A	373	PX4	C30-C29-C28	2.21	103.22	114.42	4	2
4	A	386	PX4	O8-C23-C24	2.21	115.12	123.73	15	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	388	PX4	O1-P1-O3	2.21	97.48	107.75	5	1
4	A	347	PX4	C34-C33-C32	2.21	103.22	114.42	7	1
4	A	377	PX4	C15-C14-C13	2.21	103.23	114.42	12	1
4	A	402	PX4	O3-C1-C2	2.21	120.76	109.16	11	1
4	A	414	PX4	O7-C23-O8	2.21	118.37	123.70	20	3
4	A	359	PX4	C18-C17-C16	2.20	103.23	114.42	18	1
4	A	366	PX4	C33-C32-C31	2.20	103.23	114.42	14	2
4	A	425	PX4	C16-C15-C14	2.21	103.23	114.42	13	2
4	A	319	PX4	C5-N1-C2	2.20	118.93	109.92	20	1
4	A	324	PX4	C20-C19-C18	2.20	103.24	114.42	15	1
4	A	363	PX4	C3-N1-C2	2.20	118.93	109.92	13	1
4	A	368	PX4	C15-C14-C13	2.20	103.23	114.42	6	1
4	A	377	PX4	C32-C31-C30	2.20	103.23	114.42	13	1
4	A	411	PX4	C31-C30-C29	2.20	103.24	114.42	20	1
4	A	315	PX4	C20-C19-C18	2.20	103.25	114.42	16	1
4	A	337	PX4	C28-C27-C26	2.20	103.25	114.42	11	2
4	A	353	PX4	C30-C29-C28	2.20	103.24	114.42	17	2
4	A	370	PX4	C32-C31-C30	2.20	103.24	114.42	1	1
4	A	363	PX4	C28-C27-C26	2.20	103.25	114.42	3	2
4	A	402	PX4	C19-C18-C17	2.20	103.25	114.42	19	1
4	A	426	PX4	O1-P1-O3	2.20	97.52	107.75	14	2
4	A	350	PX4	C26-C25-C24	2.20	105.28	113.19	11	2
4	A	392	PX4	C15-C14-C13	2.20	103.26	114.42	12	1
4	A	409	PX4	C29-C28-C27	2.20	103.26	114.42	14	1
4	A	425	PX4	C3-N1-C2	2.20	118.92	109.92	19	1
4	A	426	PX4	C17-C16-C15	2.20	103.26	114.42	3	1
4	A	321	PX4	C25-C24-C23	2.20	105.62	113.62	11	1
4	A	343	PX4	O1-P1-O3	2.20	117.95	107.75	7	1
4	A	333	PX4	O3-C1-C2	2.20	120.71	109.16	5	2
4	A	338	PX4	C14-C13-C12	2.20	103.27	114.42	15	1
4	A	378	PX4	C28-C27-C26	2.20	103.27	114.42	9	1
4	A	430	PX4	C17-C16-C15	2.20	103.27	114.42	17	1
4	A	320	PX4	O3-C1-C2	2.20	120.71	109.16	3	3
4	A	345	PX4	C29-C28-C27	2.20	103.28	114.42	10	1
4	A	368	PX4	O3-C1-C2	2.20	120.71	109.16	4	1
4	A	379	PX4	C16-C15-C14	2.20	103.28	114.42	14	2
4	A	305	PX4	C32-C31-C30	2.19	103.29	114.42	8	2
4	A	307	PX4	C3-N1-C2	2.19	100.94	109.92	8	2
4	A	397	PX4	O8-C23-C24	2.20	115.17	123.73	11	1
4	A	404	PX4	O1-P1-O4	2.20	117.94	107.75	15	1
4	A	359	PX4	O8-C23-C24	2.19	115.17	123.73	20	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	371	PX4	C5-N1-C2	2.19	118.89	109.92	7	2
4	A	375	PX4	C5-N1-C2	2.19	118.89	109.92	4	1
4	A	315	PX4	C26-C25-C24	2.19	105.31	113.19	14	2
4	A	317	PX4	C25-C24-C23	2.19	105.65	113.62	11	1
4	A	318	PX4	C17-C16-C15	2.19	103.30	114.42	12	3
4	A	322	PX4	C19-C18-C17	2.19	103.30	114.42	17	1
4	A	327	PX4	C33-C32-C31	2.19	103.30	114.42	19	2
4	A	384	PX4	C34-C33-C32	2.19	103.29	114.42	17	2
4	A	396	PX4	C5-N1-C2	2.19	118.89	109.92	2	1
4	A	357	PX4	C30-C29-C28	2.19	103.30	114.42	1	2
4	A	408	PX4	C29-C28-C27	2.19	103.30	114.42	19	2
4	A	374	PX4	C33-C32-C31	2.19	103.30	114.42	16	1
4	A	401	PX4	C32-C31-C30	2.19	103.30	114.42	20	1
4	A	430	PX4	C28-C27-C26	2.19	103.30	114.42	8	2
4	A	323	PX4	O3-C1-C2	2.19	120.68	109.16	19	3
4	A	319	PX4	C11-C10-C9	2.19	105.66	113.62	16	2
4	A	321	PX4	C27-C26-C25	2.19	103.31	114.42	6	1
4	A	322	PX4	C34-C33-C32	2.19	103.31	114.42	3	1
4	A	343	PX4	C18-C17-C16	2.19	103.31	114.42	17	1
4	A	363	PX4	C19-C18-C17	2.19	103.31	114.42	14	1
4	A	409	PX4	O8-C23-C24	2.19	115.19	123.73	9	3
4	A	342	PX4	C33-C32-C31	2.19	103.32	114.42	11	1
4	A	366	PX4	O1-P1-O4	2.19	117.91	107.75	7	2
4	A	366	PX4	C26-C25-C24	2.19	105.32	113.19	12	1
4	A	393	PX4	C4-N1-C2	2.19	100.96	109.92	17	3
4	A	398	PX4	C33-C32-C31	2.19	103.32	114.42	13	1
4	A	408	PX4	C13-C12-C11	2.19	103.31	114.42	2	1
4	A	430	PX4	C16-C15-C14	2.19	103.31	114.42	6	1
4	A	343	PX4	O8-C23-C24	2.19	115.20	123.73	6	1
4	A	344	PX4	C29-C28-C27	2.19	103.33	114.42	6	2
4	A	383	PX4	C13-C12-C11	2.19	103.33	114.42	6	1
4	A	430	PX4	C8-O5-C9	2.19	109.02	117.12	7	1
4	A	355	PX4	O8-C23-C24	2.19	115.21	123.73	6	1
4	A	397	PX4	C28-C27-C26	2.19	103.33	114.42	10	1
4	A	308	PX4	C11-C10-C9	2.18	121.56	113.62	14	1
4	A	339	PX4	C17-C16-C15	2.18	103.34	114.42	11	2
4	A	350	PX4	C33-C32-C31	2.18	103.34	114.42	5	2
4	A	358	PX4	O1-P1-O3	2.18	97.60	107.75	2	2
4	A	408	PX4	C34-C33-C32	2.18	103.34	114.42	6	1
4	A	325	PX4	C16-C15-C14	2.18	103.34	114.42	19	1
4	A	335	PX4	O3-C1-C2	2.18	120.64	109.16	3	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	331	PX4	C33-C32-C31	2.18	103.36	114.42	2	2
4	A	336	PX4	C14-C13-C12	2.18	103.35	114.42	3	1
4	A	340	PX4	C32-C31-C30	2.18	103.36	114.42	1	1
4	A	372	PX4	C31-C30-C29	2.18	103.35	114.42	13	2
4	A	377	PX4	C36-C35-C34	2.18	96.87	113.42	12	1
4	A	340	PX4	O6-C9-C10	2.18	115.23	123.73	14	2
4	A	351	PX4	C30-C29-C28	2.18	103.36	114.42	8	2
4	A	430	PX4	C20-C19-C18	2.18	103.36	114.42	15	1
4	A	373	PX4	C12-C11-C10	2.18	105.36	113.19	2	2
4	A	424	PX4	O3-C1-C2	2.18	120.61	109.16	14	1
4	A	424	PX4	C30-C29-C28	2.18	103.37	114.42	16	2
4	A	339	PX4	C13-C12-C11	2.18	103.38	114.42	10	2
4	A	357	PX4	C27-C26-C25	2.18	103.37	114.42	13	2
4	A	383	PX4	C16-C15-C14	2.18	103.38	114.42	17	3
4	A	412	PX4	C13-C12-C11	2.18	103.38	114.42	6	2
4	A	420	PX4	C11-C10-C9	2.18	105.70	113.62	14	1
4	A	308	PX4	O1-P1-O3	2.18	117.85	107.75	14	1
4	A	322	PX4	C26-C25-C24	2.17	121.01	113.19	18	1
4	A	354	PX4	C20-C19-C18	2.17	103.39	114.42	20	1
4	A	414	PX4	C11-C10-C9	2.17	105.71	113.62	3	1
4	A	306	PX4	C19-C18-C17	2.17	103.39	114.42	7	1
4	A	376	PX4	C14-C13-C12	2.17	103.39	114.42	18	2
4	A	420	PX4	C30-C29-C28	2.17	103.39	114.42	12	2
4	A	430	PX4	O3-C1-C2	2.17	120.59	109.16	20	2
4	A	306	PX4	C25-C24-C23	2.17	105.72	113.62	9	3
4	A	311	PX4	C5-N1-C2	2.17	101.03	109.92	2	3
4	A	322	PX4	C17-C16-C15	2.17	103.40	114.42	11	3
4	A	381	PX4	C5-N1-C2	2.17	118.81	109.92	10	1
4	A	395	PX4	C16-C15-C14	2.17	103.39	114.42	2	1
4	A	315	PX4	C17-C16-C15	2.17	103.41	114.42	17	2
4	A	417	PX4	C18-C17-C16	2.17	103.41	114.42	9	2
4	A	358	PX4	C25-C24-C23	2.17	105.73	113.62	19	1
4	A	387	PX4	C8-O5-C9	2.17	109.09	117.12	7	1
4	A	417	PX4	C28-C27-C26	2.17	103.41	114.42	8	2
4	A	424	PX4	C20-C19-C18	2.17	103.41	114.42	8	1
4	A	364	PX4	C20-C19-C18	2.17	103.42	114.42	19	2
4	A	318	PX4	C16-C15-C14	2.17	103.42	114.42	17	2
4	A	320	PX4	C17-C16-C15	2.17	103.43	114.42	18	1
4	A	322	PX4	O6-C9-C10	2.17	115.28	123.73	17	1
4	A	345	PX4	O8-C23-C24	2.17	132.18	123.73	19	2
4	A	369	PX4	C17-C16-C15	2.17	103.42	114.42	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	382	PX4	C14-C13-C12	2.17	103.42	114.42	10	3
4	A	380	PX4	C30-C29-C28	2.17	103.42	114.42	2	1
4	A	397	PX4	C32-C31-C30	2.17	103.42	114.42	4	2
4	A	412	PX4	C32-C31-C30	2.17	103.42	114.42	20	2
4	A	425	PX4	C5-N1-C2	2.17	118.78	109.92	6	1
4	A	356	PX4	C32-C31-C30	2.17	103.43	114.42	8	1
4	A	370	PX4	C25-C24-C23	2.17	105.74	113.62	18	1
4	A	367	PX4	C17-C16-C15	2.16	103.44	114.42	18	1
4	A	368	PX4	C19-C18-C17	2.17	103.43	114.42	15	1
4	A	383	PX4	O8-C23-C24	2.17	115.28	123.73	18	1
4	A	417	PX4	C4-N1-C2	2.17	118.78	109.92	15	1
4	A	328	PX4	C19-C18-C17	2.16	103.44	114.42	6	3
4	A	370	PX4	O1-P1-O3	2.16	97.69	107.75	2	1
4	A	306	PX4	C8-O5-C9	2.16	109.11	117.12	17	2
4	A	317	PX4	C11-C10-C9	2.16	121.48	113.62	18	1
4	A	421	PX4	C11-C10-C9	2.16	105.75	113.62	14	3
4	A	323	PX4	C30-C29-C28	2.16	103.45	114.42	1	1
4	A	370	PX4	O1-P1-O4	2.16	117.79	107.75	3	2
4	A	351	PX4	O6-C9-C10	2.16	115.30	123.73	18	1
4	A	361	PX4	C3-N1-C2	2.16	118.76	109.92	7	2
4	A	363	PX4	O3-C1-C2	2.16	120.53	109.16	3	1
4	A	398	PX4	C17-C16-C15	2.16	125.40	114.42	10	1
4	A	315	PX4	O8-C23-C24	2.16	115.31	123.73	12	1
4	A	362	PX4	O3-C1-C2	2.16	120.52	109.16	14	1
4	A	379	PX4	C3-N1-C2	2.16	118.75	109.92	16	2
4	A	382	PX4	C12-C11-C10	2.16	105.43	113.19	13	1
4	A	404	PX4	O6-C9-C10	2.16	115.31	123.73	18	1
4	A	407	PX4	C19-C18-C17	2.16	103.47	114.42	17	1
4	A	336	PX4	C17-C16-C15	2.16	103.48	114.42	14	1
4	A	352	PX4	O8-C23-C24	2.16	115.32	123.73	2	1
4	A	369	PX4	O6-C9-C10	2.16	115.32	123.73	14	1
4	A	391	PX4	O3-C1-C2	2.16	120.50	109.16	15	1
4	A	416	PX4	C15-C14-C13	2.16	103.47	114.42	2	2
4	A	388	PX4	C5-N1-C4	2.15	114.51	108.97	1	1
4	A	397	PX4	C5-N1-C2	2.15	101.10	109.92	15	1
4	A	313	PX4	C8-O5-C9	2.15	109.15	117.12	1	1
4	A	339	PX4	C26-C25-C24	2.15	105.45	113.19	20	1
4	A	342	PX4	O1-P1-O4	2.15	117.74	107.75	16	3
4	A	345	PX4	C5-N1-C4	2.15	103.44	108.97	5	2
4	A	375	PX4	C31-C30-C29	2.15	103.50	114.42	12	2
4	A	388	PX4	C34-C33-C32	2.15	103.50	114.42	12	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	403	PX4	C8-O5-C9	2.15	109.15	117.12	10	1
4	A	421	PX4	C25-C24-C23	2.15	121.45	113.62	11	1
4	A	347	PX4	C20-C19-C18	2.15	103.50	114.42	6	1
4	A	355	PX4	O3-C1-C2	2.15	120.47	109.16	1	1
4	A	377	PX4	C8-O5-C9	2.15	109.16	117.12	7	2
4	A	394	PX4	O1-P1-O4	2.15	117.73	107.75	2	2
4	A	409	PX4	C28-C27-C26	2.15	103.50	114.42	16	2
4	A	428	PX4	O1-P1-O4	2.15	117.73	107.75	5	2
4	A	321	PX4	O5-C9-O6	2.15	118.17	123.59	16	2
4	A	336	PX4	C5-N1-C4	2.15	103.45	108.97	13	1
4	A	353	PX4	C19-C18-C17	2.15	103.52	114.42	1	2
4	A	356	PX4	C8-O5-C9	2.15	109.17	117.12	16	1
4	A	388	PX4	C18-C17-C16	2.15	103.52	114.42	1	1
4	A	425	PX4	C15-C14-C13	2.15	103.52	114.42	10	2
4	A	306	PX4	C14-C13-C12	2.15	103.53	114.42	14	1
4	A	409	PX4	O1-P1-O3	2.15	97.77	107.75	7	2
4	A	378	PX4	C32-C31-C30	2.15	103.53	114.42	15	2
4	A	430	PX4	C31-C30-C29	2.15	103.53	114.42	6	2
4	A	328	PX4	C3-N1-C2	2.15	118.70	109.92	4	1
4	A	387	PX4	O6-C9-C10	2.15	132.10	123.73	17	1
4	A	414	PX4	C17-C16-C15	2.15	103.53	114.42	16	2
4	A	418	PX4	C30-C29-C28	2.15	103.53	114.42	12	1
4	A	314	PX4	C28-C27-C26	2.14	103.55	114.42	5	2
4	A	327	PX4	C16-C15-C14	2.14	103.54	114.42	8	1
4	A	362	PX4	C28-C27-C26	2.14	103.54	114.42	1	1
4	A	426	PX4	C25-C24-C23	2.14	105.82	113.62	14	1
4	A	368	PX4	O1-P1-O3	2.14	117.70	107.75	16	1
4	A	305	PX4	C27-C26-C25	2.14	103.55	114.42	9	2
4	A	321	PX4	C16-C15-C14	2.14	103.55	114.42	5	1
4	A	363	PX4	C14-C13-C12	2.14	103.56	114.42	11	1
4	A	409	PX4	C12-C11-C10	2.14	105.49	113.19	1	1
4	A	425	PX4	C17-C16-C15	2.14	103.55	114.42	14	1
4	A	343	PX4	C34-C33-C32	2.14	103.56	114.42	17	1
4	A	337	PX4	C33-C32-C31	2.14	103.57	114.42	9	1
4	A	354	PX4	C15-C14-C13	2.14	103.57	114.42	6	1
4	A	359	PX4	C28-C27-C26	2.14	103.56	114.42	9	1
4	A	387	PX4	C19-C18-C17	2.14	103.56	114.42	5	1
4	A	374	PX4	C35-C34-C33	2.14	95.45	115.30	10	1
4	A	378	PX4	C16-C15-C14	2.14	103.57	114.42	9	1
4	A	390	PX4	C29-C28-C27	2.14	103.56	114.42	5	1
4	A	413	PX4	C8-O5-C9	2.14	109.20	117.12	5	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	413	PX4	C28-C27-C26	2.14	103.57	114.42	12	1
4	A	417	PX4	C31-C30-C29	2.14	103.57	114.42	4	1
4	A	428	PX4	C16-C15-C14	2.14	103.56	114.42	15	1
4	A	368	PX4	O8-C23-C24	2.14	115.39	123.73	5	2
4	A	328	PX4	C22-C21-C20	2.14	97.20	113.42	4	1
4	A	380	PX4	C32-C31-C30	2.14	103.57	114.42	6	1
4	A	337	PX4	O1-P1-O3	2.14	97.82	107.75	18	1
4	A	348	PX4	C29-C28-C27	2.14	103.58	114.42	8	2
4	A	399	PX4	O3-C1-C2	2.14	120.40	109.16	19	2
4	A	344	PX4	O6-C9-C10	2.13	115.40	123.73	4	1
4	A	348	PX4	O4-P1-O2	2.14	117.41	109.07	13	1
4	A	356	PX4	C30-C29-C28	2.14	103.58	114.42	9	1
4	A	335	PX4	C13-C12-C11	2.13	103.59	114.42	5	1
4	A	364	PX4	C19-C18-C17	2.13	103.59	114.42	4	1
4	A	364	PX4	C5-N1-C2	2.13	101.18	109.92	5	1
4	A	381	PX4	C36-C35-C34	2.13	97.22	113.42	1	1
4	A	383	PX4	C32-C31-C30	2.13	103.59	114.42	20	1
4	A	410	PX4	C17-C16-C15	2.14	103.59	114.42	9	2
4	A	400	PX4	C32-C31-C30	2.13	103.59	114.42	2	1
4	A	425	PX4	C26-C25-C24	2.13	105.52	113.19	11	3
4	A	351	PX4	C5-N1-C2	2.13	118.64	109.92	9	1
4	A	423	PX4	C17-C16-C15	2.13	125.25	114.42	13	1
4	A	321	PX4	C31-C30-C29	2.13	125.24	114.42	19	2
4	A	329	PX4	C27-C26-C25	2.13	103.61	114.42	18	2
4	A	366	PX4	C29-C28-C27	2.13	103.61	114.42	10	1
4	A	379	PX4	O6-C9-C10	2.13	115.42	123.73	16	1
4	A	422	PX4	C4-N1-C2	2.13	118.64	109.92	5	1
4	A	423	PX4	O3-C1-C2	2.13	120.37	109.16	15	1
4	A	392	PX4	C26-C25-C24	2.13	105.53	113.19	15	1
4	A	419	PX4	C15-C14-C13	2.13	103.61	114.42	3	1
4	A	429	PX4	O8-C23-C24	2.13	132.04	123.73	7	1
4	A	429	PX4	C14-C13-C12	2.13	103.62	114.42	4	3
4	A	319	PX4	C19-C18-C17	2.13	103.63	114.42	13	1
4	A	320	PX4	C4-N1-C2	2.13	118.62	109.92	18	1
4	A	374	PX4	C27-C26-C25	2.13	103.62	114.42	12	1
4	A	377	PX4	C4-N1-C3	2.13	103.51	108.97	13	3
4	A	391	PX4	C13-C12-C11	2.13	103.63	114.42	14	1
4	A	403	PX4	C29-C28-C27	2.13	103.62	114.42	2	1
4	A	406	PX4	C12-C11-C10	2.13	105.54	113.19	9	2
4	A	351	PX4	C19-C18-C17	2.13	103.64	114.42	5	1
4	A	355	PX4	C31-C30-C29	2.13	103.64	114.42	19	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	412	PX4	C18-C17-C16	2.13	103.64	114.42	9	1
4	A	423	PX4	C27-C26-C25	2.13	103.63	114.42	20	1
4	A	312	PX4	C8-O5-C9	2.12	109.26	117.12	6	5
4	A	328	PX4	C16-C15-C14	2.12	103.64	114.42	4	1
4	A	363	PX4	C17-C16-C15	2.12	103.64	114.42	19	1
4	A	391	PX4	C8-O5-C9	2.12	109.25	117.12	18	1
4	A	406	PX4	C19-C18-C17	2.12	103.64	114.42	2	1
4	A	344	PX4	C26-C25-C24	2.12	105.56	113.19	20	2
4	A	345	PX4	C18-C17-C16	2.12	103.65	114.42	18	1
4	A	356	PX4	C29-C28-C27	2.12	103.65	114.42	14	3
4	A	399	PX4	C12-C11-C10	2.12	105.56	113.19	17	2
4	A	306	PX4	C29-C28-C27	2.12	103.66	114.42	3	1
4	A	308	PX4	C27-C26-C25	2.12	103.67	114.42	6	1
4	A	333	PX4	C26-C25-C24	2.12	120.81	113.19	10	1
4	A	334	PX4	C34-C33-C32	2.12	103.67	114.42	1	2
4	A	334	PX4	O3-C1-C2	2.12	120.31	109.16	15	1
4	A	342	PX4	C8-O5-C9	2.12	109.27	117.12	5	1
4	A	375	PX4	O8-C23-C24	2.12	115.46	123.73	9	2
4	A	363	PX4	C15-C14-C13	2.12	103.67	114.42	15	2
4	A	349	PX4	C3-N1-C2	2.12	118.57	109.92	1	1
4	A	351	PX4	C16-C15-C14	2.12	103.68	114.42	13	1
4	A	375	PX4	C30-C29-C28	2.12	103.67	114.42	13	2
4	A	417	PX4	C25-C24-C23	2.12	105.92	113.62	1	2
4	A	308	PX4	O6-C9-C10	2.11	115.48	123.73	15	1
4	A	352	PX4	C4-N1-C2	2.12	118.57	109.92	6	2
4	A	305	PX4	C29-C28-C27	2.11	103.70	114.42	11	1
4	A	333	PX4	C18-C17-C16	2.11	103.69	114.42	11	1
4	A	360	PX4	C22-C21-C20	2.11	97.37	113.42	4	1
4	A	366	PX4	O8-C23-C24	2.11	115.48	123.73	10	1
4	A	381	PX4	O3-C1-C2	2.12	120.28	109.16	12	1
4	A	381	PX4	C20-C19-C18	2.12	103.69	114.42	19	2
4	A	342	PX4	C18-C17-C16	2.11	125.15	114.42	5	1
4	A	347	PX4	C8-O5-C9	2.11	109.30	117.12	9	1
4	A	382	PX4	O4-P1-O2	2.11	117.32	109.07	4	2
4	A	403	PX4	O4-P1-O2	2.11	117.32	109.07	17	1
4	A	410	PX4	C14-C13-C12	2.11	103.70	114.42	2	1
4	A	313	PX4	C19-C18-C17	2.11	103.71	114.42	7	2
4	A	313	PX4	C14-C13-C12	2.11	103.71	114.42	11	1
4	A	335	PX4	C18-C17-C16	2.11	103.70	114.42	9	1
4	A	370	PX4	O6-C9-C10	2.11	115.49	123.73	17	1
4	A	415	PX4	C17-C16-C15	2.11	103.70	114.42	10	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	371	PX4	O3-C1-C2	2.11	120.26	109.16	6	1
4	A	327	PX4	C20-C19-C18	2.11	103.72	114.42	13	1
4	A	344	PX4	O1-P1-O4	2.11	117.54	107.75	19	1
4	A	360	PX4	C34-C33-C32	2.11	103.72	114.42	19	1
4	A	362	PX4	C31-C30-C29	2.11	103.73	114.42	12	3
4	A	372	PX4	C16-C15-C14	2.11	103.72	114.42	11	1
4	A	364	PX4	O6-C9-C10	2.11	115.51	123.73	9	2
4	A	378	PX4	C27-C26-C25	2.11	103.73	114.42	7	2
4	A	403	PX4	C13-C12-C11	2.11	103.73	114.42	10	1
4	A	410	PX4	C16-C15-C14	2.11	103.73	114.42	9	1
4	A	416	PX4	C3-N1-C2	2.11	118.54	109.92	20	2
4	A	417	PX4	C19-C18-C17	2.11	103.72	114.42	9	1
4	A	371	PX4	C13-C12-C11	2.11	103.73	114.42	11	1
4	A	419	PX4	C28-C27-C26	2.11	103.73	114.42	1	2
4	A	312	PX4	C4-N1-C2	2.10	118.53	109.92	3	1
4	A	342	PX4	C20-C19-C18	2.10	103.74	114.42	6	2
4	A	348	PX4	O6-C9-C10	2.11	115.52	123.73	7	1
4	A	427	PX4	C14-C13-C12	2.11	103.74	114.42	13	1
4	A	369	PX4	C5-N1-C2	2.10	118.53	109.92	5	2
4	A	360	PX4	C13-C12-C11	2.10	103.75	114.42	16	2
4	A	395	PX4	C20-C19-C18	2.10	103.75	114.42	12	1
4	A	407	PX4	C15-C14-C13	2.10	103.75	114.42	5	1
4	A	417	PX4	C29-C28-C27	2.10	103.75	114.42	15	2
4	A	430	PX4	C34-C33-C32	2.10	103.75	114.42	4	1
4	A	371	PX4	C17-C16-C15	2.10	103.76	114.42	16	2
4	A	401	PX4	C12-C11-C10	2.10	105.64	113.19	6	1
4	A	410	PX4	C32-C31-C30	2.10	103.76	114.42	15	1
4	A	384	PX4	C20-C19-C18	2.10	103.77	114.42	8	1
4	A	388	PX4	C4-N1-C2	2.10	118.51	109.92	12	1
4	A	411	PX4	O3-C1-C2	2.10	120.21	109.16	18	1
4	A	412	PX4	O4-P1-O2	2.10	100.86	109.07	7	1
4	A	416	PX4	C27-C26-C25	2.10	103.76	114.42	13	1
4	A	347	PX4	C5-N1-C2	2.10	118.50	109.92	1	1
4	A	347	PX4	C32-C31-C30	2.10	103.77	114.42	7	1
4	A	369	PX4	C33-C32-C31	2.10	125.08	114.42	19	1
4	A	412	PX4	C8-O5-C9	2.10	109.35	117.12	2	1
4	A	417	PX4	C20-C19-C18	2.10	103.77	114.42	7	1
4	A	317	PX4	C8-O5-C9	2.10	109.36	117.12	13	1
4	A	337	PX4	C12-C11-C10	2.10	105.65	113.19	1	1
4	A	376	PX4	C19-C18-C17	2.10	103.78	114.42	8	1
4	A	414	PX4	C34-C33-C32	2.10	103.78	114.42	14	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	318	PX4	C12-C11-C10	2.10	105.66	113.19	13	1
4	A	399	PX4	C4-N1-C2	2.10	118.49	109.92	3	1
4	A	429	PX4	C15-C14-C13	2.10	103.78	114.42	19	1
4	A	343	PX4	C12-C11-C10	2.10	105.66	113.19	3	1
4	A	330	PX4	C12-C11-C10	2.09	105.67	113.19	13	2
4	A	331	PX4	C3-N1-C2	2.09	118.48	109.92	11	1
4	A	351	PX4	O1-P1-O4	2.09	98.02	107.75	6	1
4	A	386	PX4	C31-C30-C29	2.09	103.79	114.42	10	1
4	A	313	PX4	C27-C26-C25	2.09	103.81	114.42	15	1
4	A	382	PX4	C3-N1-C2	2.09	118.47	109.92	18	1
4	A	393	PX4	C19-C18-C17	2.09	103.81	114.42	12	1
4	A	314	PX4	C27-C26-C25	2.09	103.82	114.42	1	1
4	A	338	PX4	O5-C9-O6	2.09	118.32	123.59	9	1
4	A	349	PX4	O4-P1-O2	2.09	117.23	109.07	3	2
4	A	375	PX4	C14-C13-C12	2.09	103.81	114.42	16	1
4	A	399	PX4	C29-C28-C27	2.09	103.81	114.42	13	1
4	A	327	PX4	C30-C29-C28	2.09	103.82	114.42	11	2
4	A	355	PX4	C28-C27-C26	2.09	103.82	114.42	2	2
4	A	405	PX4	C11-C10-C9	2.09	106.02	113.62	3	1
4	A	382	PX4	C32-C31-C30	2.09	103.82	114.42	8	1
4	A	312	PX4	C17-C16-C15	2.09	103.83	114.42	7	1
4	A	341	PX4	C25-C24-C23	2.09	121.21	113.62	19	1
4	A	399	PX4	C19-C18-C17	2.09	103.83	114.42	12	1
4	A	401	PX4	C33-C32-C31	2.09	103.82	114.42	11	2
4	A	354	PX4	C34-C33-C32	2.09	103.83	114.42	2	1
4	A	371	PX4	C4-N1-C2	2.09	118.45	109.92	13	1
4	A	377	PX4	C27-C26-C25	2.09	103.83	114.42	2	1
4	A	377	PX4	C3-N1-C2	2.09	118.45	109.92	19	2
4	A	398	PX4	C14-C13-C12	2.09	103.83	114.42	1	2
4	A	422	PX4	C14-C13-C12	2.09	103.83	114.42	20	1
4	A	349	PX4	C27-C26-C25	2.08	125.01	114.42	1	1
4	A	349	PX4	C25-C24-C23	2.09	106.04	113.62	15	1
4	A	411	PX4	C27-C26-C25	2.09	103.84	114.42	2	2
4	A	326	PX4	C13-C12-C11	2.08	103.85	114.42	16	1
4	A	335	PX4	C19-C18-C17	2.08	103.85	114.42	3	1
4	A	308	PX4	C3-N1-C2	2.08	118.43	109.92	7	1
4	A	320	PX4	O4-P1-O2	2.08	117.20	109.07	15	1
4	A	321	PX4	O3-C1-C2	2.08	120.11	109.16	8	1
4	A	365	PX4	C30-C29-C28	2.08	103.85	114.42	6	1
4	A	368	PX4	C13-C12-C11	2.08	103.85	114.42	6	1
4	A	331	PX4	C17-C16-C15	2.08	103.86	114.42	11	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	348	PX4	C32-C31-C30	2.08	103.86	114.42	10	1
4	A	360	PX4	C11-C10-C9	2.08	106.05	113.62	8	1
4	A	379	PX4	C20-C19-C18	2.08	103.86	114.42	9	1
4	A	381	PX4	C4-N1-C2	2.08	118.43	109.92	18	1
4	A	402	PX4	C18-C17-C16	2.08	103.85	114.42	5	1
4	A	341	PX4	C17-C16-C15	2.08	103.87	114.42	8	1
4	A	350	PX4	C5-N1-C2	2.08	118.43	109.92	16	1
4	A	388	PX4	O8-C23-C24	2.08	115.62	123.73	2	1
4	A	429	PX4	C27-C26-C25	2.08	103.86	114.42	8	1
4	A	430	PX4	O5-C9-C10	2.08	118.44	111.91	12	1
4	A	317	PX4	C31-C30-C29	2.08	103.88	114.42	14	1
4	A	320	PX4	C28-C27-C26	2.08	103.88	114.42	9	1
4	A	330	PX4	O1-P1-O4	2.08	117.40	107.75	5	2
4	A	352	PX4	C30-C29-C28	2.08	103.88	114.42	13	1
4	A	362	PX4	O5-C9-C10	2.08	118.43	111.91	12	1
4	A	366	PX4	C19-C18-C17	2.08	103.87	114.42	11	1
4	A	373	PX4	O6-C9-C10	2.08	115.62	123.73	20	1
4	A	410	PX4	O8-C23-C24	2.08	115.63	123.73	15	1
4	A	413	PX4	C29-C28-C27	2.08	103.87	114.42	2	2
4	A	374	PX4	C3-N1-C2	2.08	118.42	109.92	10	1
4	A	396	PX4	C29-C28-C27	2.08	103.88	114.42	8	1
4	A	403	PX4	O1-P1-O4	2.08	117.39	107.75	15	1
4	A	413	PX4	C33-C32-C31	2.08	103.88	114.42	7	1
4	A	428	PX4	C3-N1-C2	2.08	118.42	109.92	7	1
4	A	356	PX4	O5-C9-C10	2.08	118.42	111.91	7	1
4	A	320	PX4	C18-C17-C16	2.08	103.89	114.42	6	1
4	A	375	PX4	O3-C1-C2	2.08	120.08	109.16	8	1
4	A	397	PX4	C34-C33-C32	2.08	103.89	114.42	3	1
4	A	404	PX4	C30-C29-C28	2.08	103.89	114.42	16	1
4	A	313	PX4	C30-C29-C28	2.07	103.90	114.42	1	1
4	A	313	PX4	C32-C31-C30	2.07	103.90	114.42	5	1
4	A	354	PX4	C3-N1-C2	2.07	118.41	109.92	7	1
4	A	387	PX4	C14-C13-C12	2.07	103.89	114.42	1	1
4	A	409	PX4	C8-O5-C9	2.08	109.44	117.12	7	1
4	A	368	PX4	C27-C26-C25	2.07	103.90	114.42	14	1
4	A	326	PX4	C32-C31-C30	2.07	103.91	114.42	7	2
4	A	345	PX4	C13-C12-C11	2.07	103.91	114.42	17	1
4	A	381	PX4	C14-C13-C12	2.07	103.90	114.42	6	1
4	A	324	PX4	C14-C13-C12	2.07	103.91	114.42	12	1
4	A	345	PX4	C12-C11-C10	2.07	105.75	113.19	7	1
4	A	410	PX4	O3-C1-C2	2.07	120.05	109.16	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	412	PX4	C29-C28-C27	2.07	103.91	114.42	12	2
4	A	322	PX4	C28-C27-C26	2.07	103.92	114.42	9	1
4	A	353	PX4	C4-N1-C2	2.07	118.38	109.92	20	1
4	A	354	PX4	C27-C26-C25	2.07	103.92	114.42	8	1
4	A	359	PX4	C4-N1-C2	2.07	118.38	109.92	9	1
4	A	374	PX4	O1-P1-O4	2.07	117.36	107.75	8	1
4	A	385	PX4	O3-C1-C2	2.07	120.05	109.16	6	1
4	A	324	PX4	C18-C17-C16	2.07	103.93	114.42	18	1
4	A	379	PX4	C5-N1-C2	2.07	118.38	109.92	13	2
4	A	428	PX4	C27-C26-C25	2.07	103.92	114.42	16	1
4	A	328	PX4	C27-C26-C25	2.07	103.93	114.42	12	1
4	A	324	PX4	C15-C14-C13	2.07	103.94	114.42	20	1
4	A	332	PX4	C34-C33-C32	2.07	103.93	114.42	6	1
4	A	375	PX4	O6-C9-C10	2.07	131.79	123.73	14	1
4	A	381	PX4	C19-C18-C17	2.07	103.93	114.42	15	2
4	A	374	PX4	C15-C14-C13	2.06	103.94	114.42	8	1
4	A	398	PX4	O1-P1-O3	2.07	98.15	107.75	5	1
4	A	350	PX4	C3-N1-C2	2.06	118.36	109.92	10	2
4	A	370	PX4	O8-C23-C24	2.06	115.68	123.73	2	1
4	A	406	PX4	C30-C29-C28	2.06	103.94	114.42	2	1
4	A	318	PX4	C29-C28-C27	2.06	103.95	114.42	7	1
4	A	323	PX4	C8-O5-C9	2.06	109.49	117.12	17	1
4	A	351	PX4	O1-P1-O3	2.06	117.32	107.75	9	1
4	A	382	PX4	C25-C24-C23	2.06	106.12	113.62	10	1
4	A	423	PX4	C20-C19-C18	2.06	103.96	114.42	2	1
4	A	358	PX4	O3-C1-C2	2.06	119.99	109.16	9	1
4	A	365	PX4	C4-N1-C3	2.06	103.68	108.97	17	1
4	A	379	PX4	O7-C7-C6	2.06	115.86	108.40	9	2
4	A	311	PX4	C33-C32-C31	2.06	103.98	114.42	19	1
4	A	316	PX4	C27-C26-C25	2.06	103.98	114.42	12	1
4	A	329	PX4	C18-C17-C16	2.06	103.98	114.42	20	1
4	A	359	PX4	C29-C28-C27	2.06	103.98	114.42	8	1
4	A	382	PX4	C33-C32-C31	2.06	103.98	114.42	12	1
4	A	314	PX4	O3-C1-C2	2.06	119.97	109.16	10	1
4	A	318	PX4	C30-C29-C28	2.05	103.99	114.42	9	1
4	A	329	PX4	C28-C27-C26	2.06	103.99	114.42	6	2
4	A	377	PX4	C25-C24-C23	2.06	121.10	113.62	12	1
4	A	369	PX4	O3-C1-C2	2.06	119.97	109.16	18	1
4	A	379	PX4	C27-C26-C25	2.06	103.99	114.42	4	1
4	A	389	PX4	C5-N1-C2	2.05	118.32	109.92	12	2
4	A	400	PX4	C5-N1-C3	2.05	114.25	108.97	12	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	317	PX4	O1-P1-O4	2.05	117.28	107.75	7	2
4	A	406	PX4	C20-C19-C18	2.05	104.00	114.42	8	2
4	A	424	PX4	C18-C17-C16	2.05	104.00	114.42	9	2
4	A	333	PX4	C19-C18-C17	2.05	104.01	114.42	3	1
4	A	426	PX4	C14-C13-C12	2.05	104.00	114.42	8	1
4	A	350	PX4	C15-C14-C13	2.05	104.01	114.42	14	1
4	A	367	PX4	C30-C29-C28	2.05	104.01	114.42	18	1
4	A	384	PX4	C25-C24-C23	2.05	106.17	113.62	18	1
4	A	391	PX4	C28-C27-C26	2.05	104.02	114.42	15	1
5	A	432	C3S	C54-C57-C60	2.05	122.66	113.24	16	1
4	A	306	PX4	C27-C26-C25	2.05	104.02	114.42	9	1
4	A	315	PX4	C4-N1-C3	2.05	103.71	108.97	8	1
4	A	318	PX4	C20-C19-C18	2.05	104.02	114.42	2	1
4	A	382	PX4	O1-P1-O4	2.05	117.25	107.75	15	2
4	A	402	PX4	C29-C28-C27	2.05	104.03	114.42	9	2
4	A	403	PX4	C15-C14-C13	2.05	104.03	114.42	4	2
4	A	413	PX4	C4-N1-C2	2.05	118.30	109.92	9	1
4	A	414	PX4	C13-C12-C11	2.05	104.03	114.42	18	1
4	A	416	PX4	C28-C27-C26	2.05	104.03	114.42	6	1
4	A	306	PX4	C17-C16-C15	2.05	124.81	114.42	1	1
4	A	318	PX4	C34-C33-C32	2.05	104.04	114.42	11	1
4	A	333	PX4	C29-C28-C27	2.05	104.03	114.42	10	1
4	A	344	PX4	O1-P1-O3	2.05	98.24	107.75	16	1
4	A	353	PX4	C5-N1-C2	2.05	101.54	109.92	9	1
4	A	360	PX4	C16-C15-C14	2.05	104.03	114.42	8	1
4	A	362	PX4	C29-C28-C27	2.05	104.04	114.42	4	2
4	A	375	PX4	C34-C33-C32	2.05	104.04	114.42	12	2
4	A	380	PX4	C29-C28-C27	2.05	104.04	114.42	10	1
4	A	315	PX4	C15-C14-C13	2.04	104.05	114.42	8	1
4	A	346	PX4	C5-N1-C2	2.04	118.28	109.92	9	1
4	A	351	PX4	C17-C16-C15	2.04	104.05	114.42	1	1
4	A	358	PX4	C3-N1-C2	2.04	101.55	109.92	16	1
4	A	367	PX4	C3-N1-C2	2.04	118.28	109.92	8	1
4	A	386	PX4	C33-C32-C31	2.04	104.05	114.42	10	1
4	A	429	PX4	C29-C28-C27	2.05	104.04	114.42	10	1
4	A	312	PX4	C16-C15-C14	2.04	104.06	114.42	3	2
4	A	313	PX4	C5-N1-C2	2.04	118.27	109.92	13	1
4	A	323	PX4	C27-C26-C25	2.04	104.06	114.42	14	1
4	A	335	PX4	C4-N1-C2	2.04	101.56	109.92	2	1
4	A	384	PX4	O6-C9-C10	2.04	115.76	123.73	12	1
4	A	351	PX4	O3-C1-C2	2.04	119.90	109.16	15	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	409	PX4	O6-C9-C10	2.04	115.76	123.73	15	1
4	A	423	PX4	C34-C33-C32	2.04	104.05	114.42	8	1
4	A	376	PX4	C4-N1-C2	2.04	118.27	109.92	14	1
4	A	314	PX4	C29-C28-C27	2.04	104.07	114.42	9	1
4	A	325	PX4	C25-C24-C23	2.04	106.20	113.62	9	1
4	A	332	PX4	O3-C1-C2	2.04	119.89	109.16	6	1
4	A	342	PX4	O6-C9-C10	2.04	115.78	123.73	14	1
4	A	381	PX4	C29-C28-C27	2.04	104.07	114.42	13	1
4	A	415	PX4	C5-N1-C2	2.04	101.57	109.92	2	1
4	A	419	PX4	C17-C16-C15	2.04	104.07	114.42	7	2
4	A	421	PX4	C27-C26-C25	2.04	104.07	114.42	18	1
4	A	427	PX4	O8-C23-C24	2.04	115.78	123.73	10	1
4	A	330	PX4	C17-C16-C15	2.04	104.08	114.42	10	1
4	A	335	PX4	C25-C24-C23	2.04	121.03	113.62	14	1
4	A	370	PX4	C13-C12-C11	2.04	104.08	114.42	15	1
4	A	401	PX4	C25-C24-C23	2.04	106.21	113.62	10	1
4	A	378	PX4	C18-C17-C16	2.04	104.09	114.42	10	1
4	A	411	PX4	C34-C33-C32	2.04	104.08	114.42	5	1
4	A	421	PX4	C29-C28-C27	2.04	104.08	114.42	17	1
4	A	310	PX4	O3-C1-C2	2.04	119.86	109.16	8	1
4	A	324	PX4	C17-C16-C15	2.04	104.09	114.42	17	1
4	A	342	PX4	C14-C13-C12	2.03	104.10	114.42	5	1
4	A	342	PX4	C11-C10-C9	2.04	106.22	113.62	16	1
4	A	398	PX4	C26-C25-C24	2.04	120.51	113.19	12	1
4	A	392	PX4	C20-C19-C18	2.03	104.10	114.42	12	1
4	A	403	PX4	C33-C32-C31	2.03	104.09	114.42	3	1
4	A	428	PX4	C25-C24-C23	2.04	106.22	113.62	16	1
4	A	346	PX4	C13-C12-C11	2.03	104.10	114.42	15	1
4	A	314	PX4	C31-C30-C29	2.03	104.11	114.42	1	1
4	A	367	PX4	C5-N1-C2	2.03	118.23	109.92	2	2
4	A	305	PX4	C19-C18-C17	2.03	104.11	114.42	20	1
4	A	362	PX4	C34-C33-C32	2.03	104.11	114.42	5	1
4	A	398	PX4	C28-C27-C26	2.03	104.11	114.42	16	1
4	A	399	PX4	C8-O5-C9	2.03	109.60	117.12	12	1
4	A	349	PX4	C32-C31-C30	2.03	104.12	114.42	4	1
4	A	308	PX4	C28-C27-C26	2.03	104.13	114.42	3	1
4	A	328	PX4	C35-C34-C33	2.03	96.48	115.30	1	1
4	A	420	PX4	C28-C27-C26	2.03	104.13	114.42	5	1
4	A	428	PX4	C34-C33-C32	2.03	104.13	114.42	19	1
4	A	326	PX4	O1-P1-O3	2.03	98.33	107.75	17	1
4	A	351	PX4	O8-C23-C24	2.03	115.82	123.73	11	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	343	PX4	C15-C14-C13	2.02	104.14	114.42	14	1
4	A	343	PX4	C14-C13-C12	2.03	104.14	114.42	20	1
4	A	352	PX4	C32-C31-C30	2.03	104.14	114.42	19	1
4	A	348	PX4	C16-C15-C14	2.03	104.14	114.42	5	1
4	A	354	PX4	C17-C16-C15	2.03	104.14	114.42	9	1
4	A	375	PX4	C17-C16-C15	2.03	104.14	114.42	8	1
4	A	390	PX4	C16-C15-C14	2.03	104.14	114.42	6	1
4	A	315	PX4	C18-C17-C16	2.02	104.14	114.42	20	1
4	A	321	PX4	C34-C33-C32	2.03	104.14	114.42	7	1
4	A	409	PX4	C3-N1-C2	2.03	118.21	109.92	5	1
4	A	366	PX4	C5-N1-C2	2.02	101.63	109.92	20	1
4	A	374	PX4	C19-C18-C17	2.02	104.15	114.42	19	1
4	A	316	PX4	C33-C32-C31	2.02	104.16	114.42	18	1
4	A	344	PX4	O8-C23-C24	2.02	115.84	123.73	2	1
4	A	356	PX4	C31-C30-C29	2.02	104.16	114.42	8	1
4	A	359	PX4	C5-N1-C2	2.02	101.64	109.92	5	2
4	A	408	PX4	C5-N1-C2	2.02	118.19	109.92	12	1
4	A	411	PX4	C20-C19-C18	2.02	104.16	114.42	15	2
4	A	420	PX4	O6-C9-C10	2.02	115.84	123.73	6	1
4	A	306	PX4	C16-C15-C14	2.02	104.17	114.42	6	1
4	A	307	PX4	C18-C17-C16	2.02	104.17	114.42	12	1
4	A	382	PX4	C27-C26-C25	2.02	104.17	114.42	12	1
4	A	386	PX4	C27-C26-C25	2.02	104.17	114.42	1	1
4	A	388	PX4	C20-C19-C18	2.02	104.17	114.42	20	1
4	A	318	PX4	C27-C26-C25	2.02	104.17	114.42	11	1
4	A	322	PX4	C15-C14-C13	2.02	104.17	114.42	13	2
4	A	346	PX4	C16-C15-C14	2.02	104.17	114.42	4	1
4	A	357	PX4	C33-C32-C31	2.02	104.17	114.42	4	1
4	A	402	PX4	C27-C26-C25	2.02	104.17	114.42	15	1
4	A	410	PX4	C34-C33-C32	2.02	104.17	114.42	19	1
4	A	307	PX4	C33-C32-C31	2.02	104.18	114.42	9	1
4	A	329	PX4	C16-C15-C14	2.02	104.18	114.42	9	1
4	A	332	PX4	C15-C14-C13	2.02	104.18	114.42	9	1
4	A	360	PX4	C4-N1-C2	2.02	101.66	109.92	2	1
4	A	368	PX4	C17-C16-C15	2.02	104.18	114.42	2	1
4	A	401	PX4	O4-P1-O2	2.02	116.95	109.07	18	1
4	A	313	PX4	O6-C9-C10	2.02	115.86	123.73	8	1
4	A	338	PX4	C16-C15-C14	2.01	104.21	114.42	20	1
4	A	374	PX4	C20-C19-C18	2.01	104.20	114.42	13	1
4	A	309	PX4	C13-C12-C11	2.01	104.22	114.42	14	1
4	A	345	PX4	C8-O5-C9	2.01	109.67	117.12	17	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	398	PX4	C16-C15-C14	2.01	104.21	114.42	17	1
4	A	308	PX4	C15-C14-C13	2.01	104.23	114.42	13	1
4	A	345	PX4	C16-C15-C14	2.01	104.22	114.42	17	1
4	A	380	PX4	C18-C17-C16	2.01	104.22	114.42	1	1
4	A	424	PX4	C22-C21-C20	2.01	98.16	113.42	5	1
4	A	311	PX4	C8-O5-C9	2.01	109.68	117.12	11	1
4	A	321	PX4	C26-C25-C24	2.01	105.97	113.19	13	1
4	A	332	PX4	C28-C27-C26	2.01	104.23	114.42	19	1
4	A	363	PX4	C27-C26-C25	2.01	104.23	114.42	20	1
4	A	341	PX4	O1-P1-O3	2.01	98.42	107.75	18	1
4	A	354	PX4	C28-C27-C26	2.01	104.23	114.42	16	1
4	A	377	PX4	C29-C28-C27	2.01	104.23	114.42	10	1
4	A	385	PX4	C32-C31-C30	2.01	104.22	114.42	3	1
4	A	392	PX4	C31-C30-C29	2.01	104.23	114.42	5	1
4	A	404	PX4	C25-C24-C23	2.01	106.31	113.62	13	1
4	A	400	PX4	C11-C10-C9	2.01	106.32	113.62	9	1
4	A	333	PX4	O1-P1-O4	2.01	117.06	107.75	16	1
4	A	349	PX4	C18-C17-C16	2.01	104.24	114.42	15	1
4	A	311	PX4	C12-C11-C10	2.00	120.40	113.19	8	1
4	A	324	PX4	O3-C1-C2	2.01	119.70	109.16	16	1
4	A	333	PX4	O1-P1-O3	2.00	117.06	107.75	2	1
4	A	340	PX4	O3-C1-C2	2.01	119.70	109.16	4	1
4	A	361	PX4	C30-C29-C28	2.01	104.24	114.42	3	1
4	A	391	PX4	C29-C28-C27	2.01	104.24	114.42	14	1
4	A	398	PX4	C34-C33-C32	2.01	104.24	114.42	19	1
4	A	331	PX4	C32-C31-C30	2.00	104.25	114.42	17	1
4	A	355	PX4	C20-C19-C18	2.00	104.25	114.42	16	1
4	A	395	PX4	O4-P1-O2	2.01	116.90	109.07	8	2
4	A	407	PX4	O6-C9-C10	2.00	115.92	123.73	13	1
4	A	421	PX4	C12-C11-C10	2.00	120.39	113.19	17	1
4	A	424	PX4	C8-O5-C9	2.00	109.70	117.12	2	1
4	A	341	PX4	C3-N1-C2	2.00	101.72	109.92	15	1
4	A	319	PX4	C14-C13-C12	2.00	104.27	114.42	15	1
4	A	328	PX4	C14-C13-C12	2.00	104.26	114.42	19	1
4	A	350	PX4	C16-C15-C14	2.00	104.26	114.42	17	1
4	A	321	PX4	C14-C13-C12	2.00	104.27	114.42	16	1
4	A	330	PX4	O4-P1-O2	2.00	101.25	109.07	6	1
4	A	359	PX4	C33-C32-C31	2.00	104.27	114.42	7	1
4	A	360	PX4	C27-C26-C25	2.00	104.27	114.42	20	1
4	A	376	PX4	C3-N1-C2	2.00	101.73	109.92	20	1
4	A	386	PX4	O1-P1-O3	2.00	98.45	107.75	16	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
4	A	393	PX4	C36-C35-C34	2.00	98.23	113.42	19	1
4	A	396	PX4	C20-C19-C18	2.00	104.26	114.42	7	1
4	A	416	PX4	C13-C12-C11	2.00	104.27	114.42	8	1
4	A	430	PX4	C4-N1-C2	2.00	118.10	109.92	16	1

All unique chiral outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Models (Total)
5	A	431	C3S	C48	20
5	A	431	C3S	C7	20
5	A	432	C3S	C48	20
5	A	433	C3S	C48	20
5	A	434	C3S	C48	20
5	A	435	C3S	C48	20
5	A	435	C3S	C7	20
5	A	436	C3S	C48	20
5	A	436	C3S	C7	20

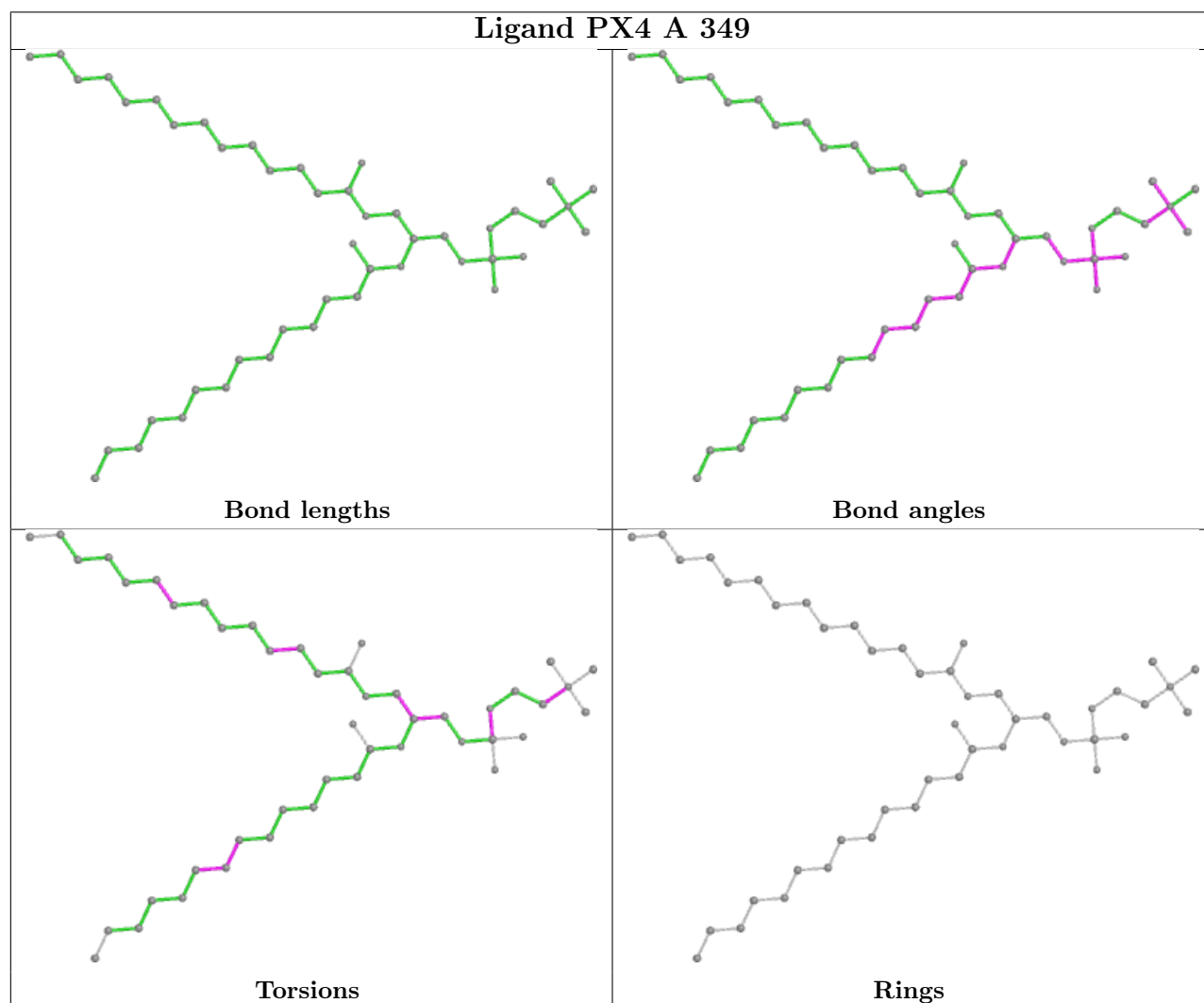
All unique torsion outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

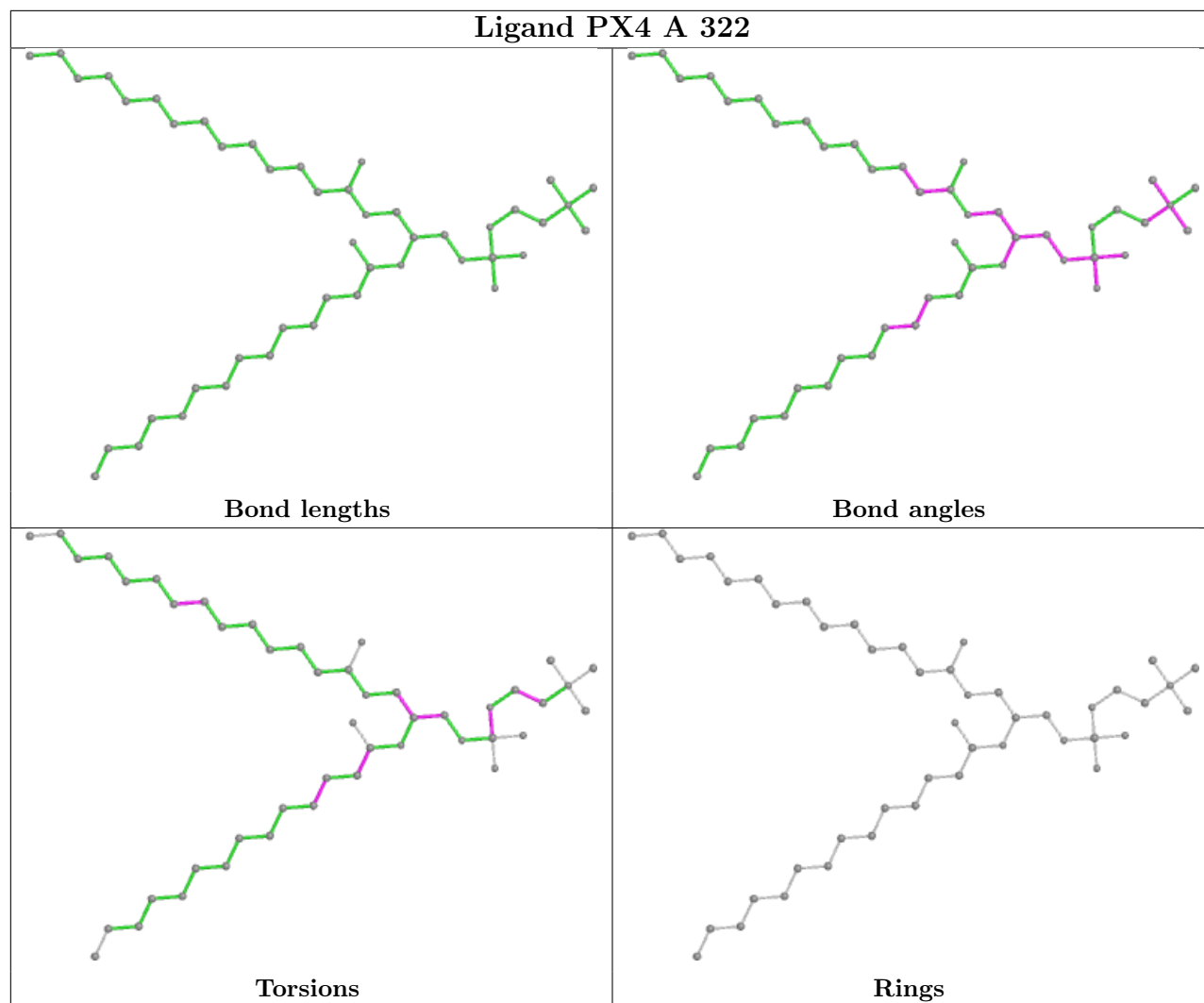
Mol	Chain	Res	Type	Atoms	Models (Total)
4	A	377	PX4	O8-C23-O7-C7	12
4	A	376	PX4	O8-C23-O7-C7	5
4	A	356	PX4	O8-C23-O7-C7	3
4	A	372	PX4	O8-C23-O7-C7	1
4	A	376	PX4	C24-C23-O7-C7	1
4	A	424	PX4	O8-C23-O7-C7	1

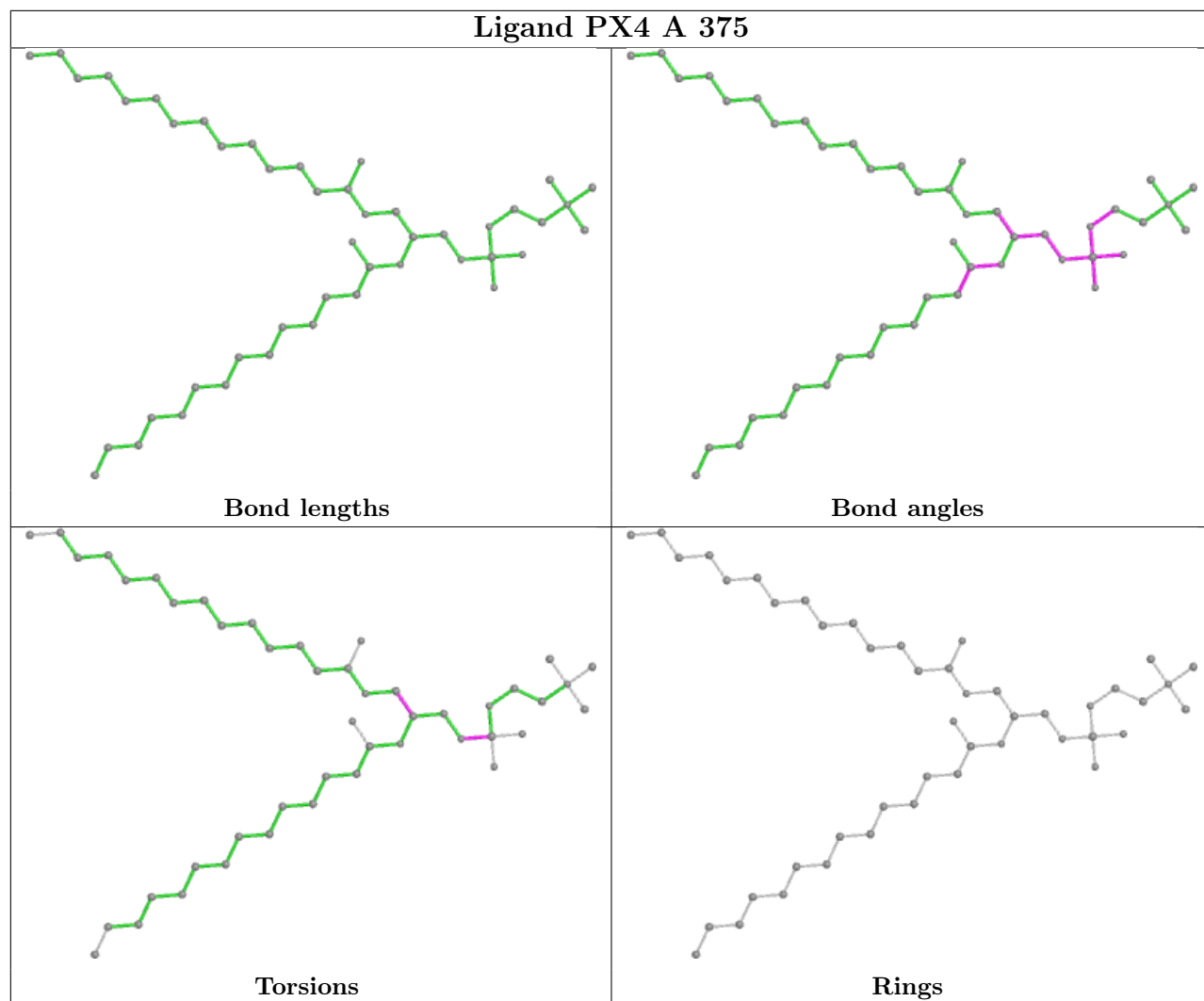
There are no ring outliers.

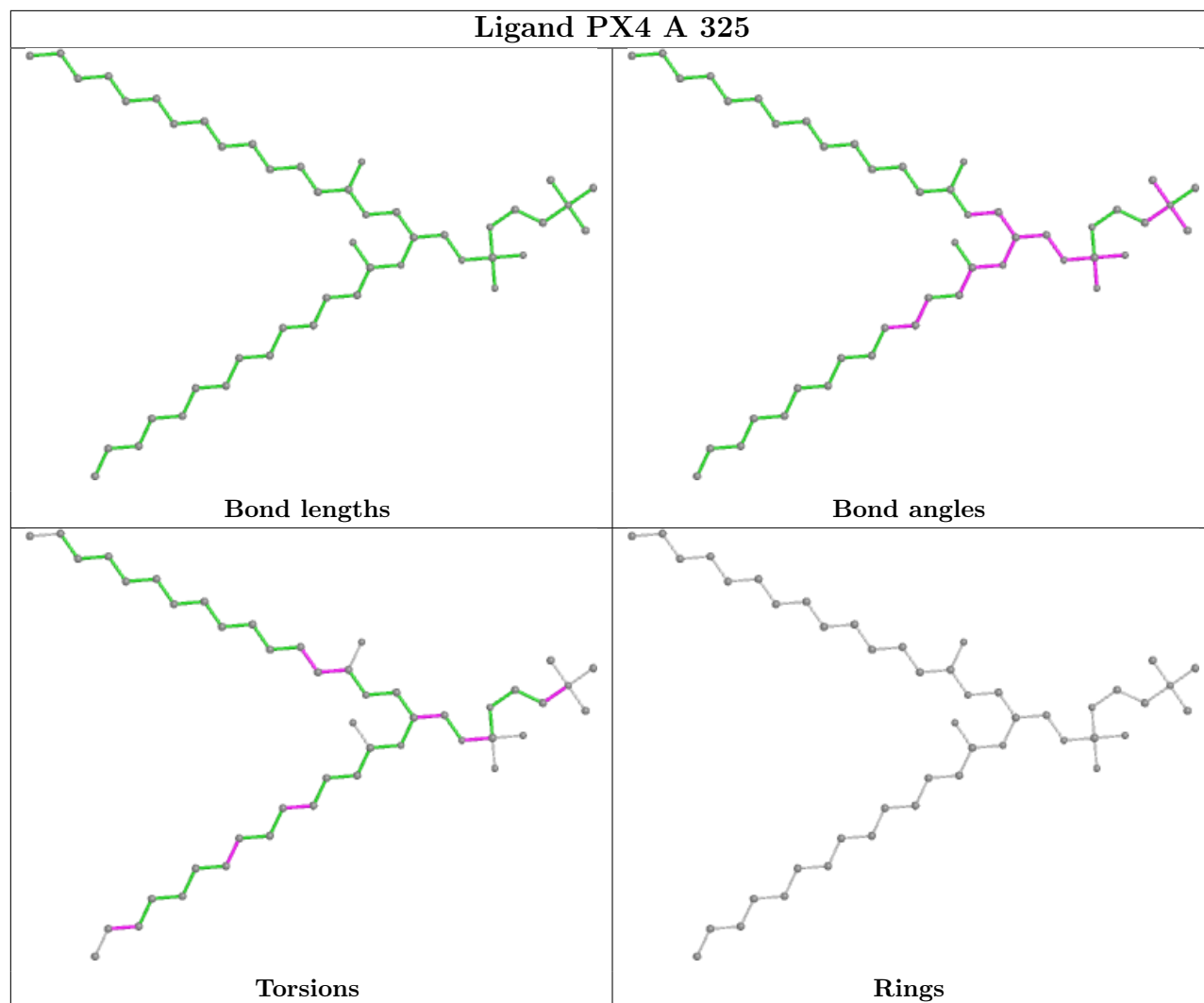
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier.

The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

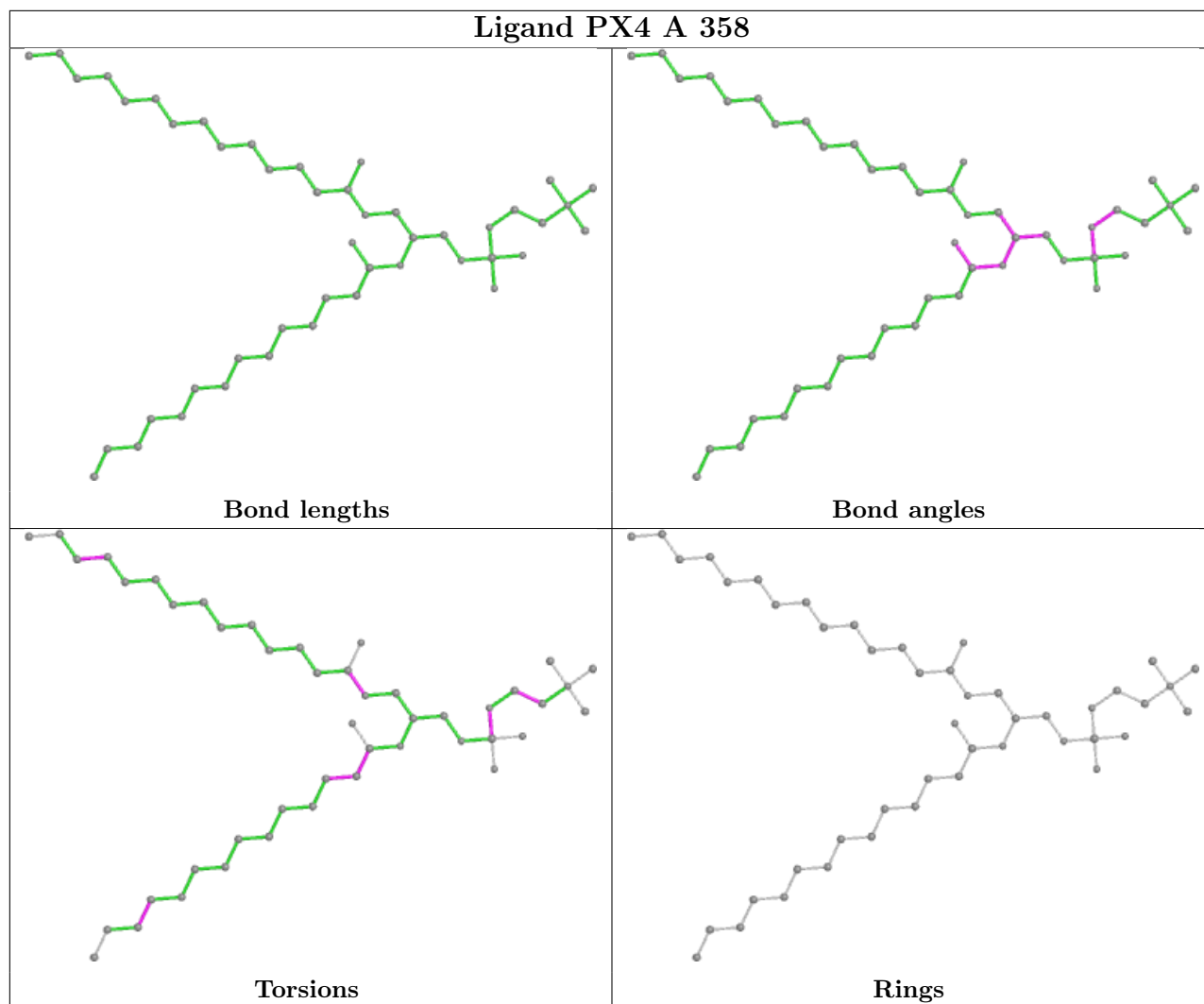


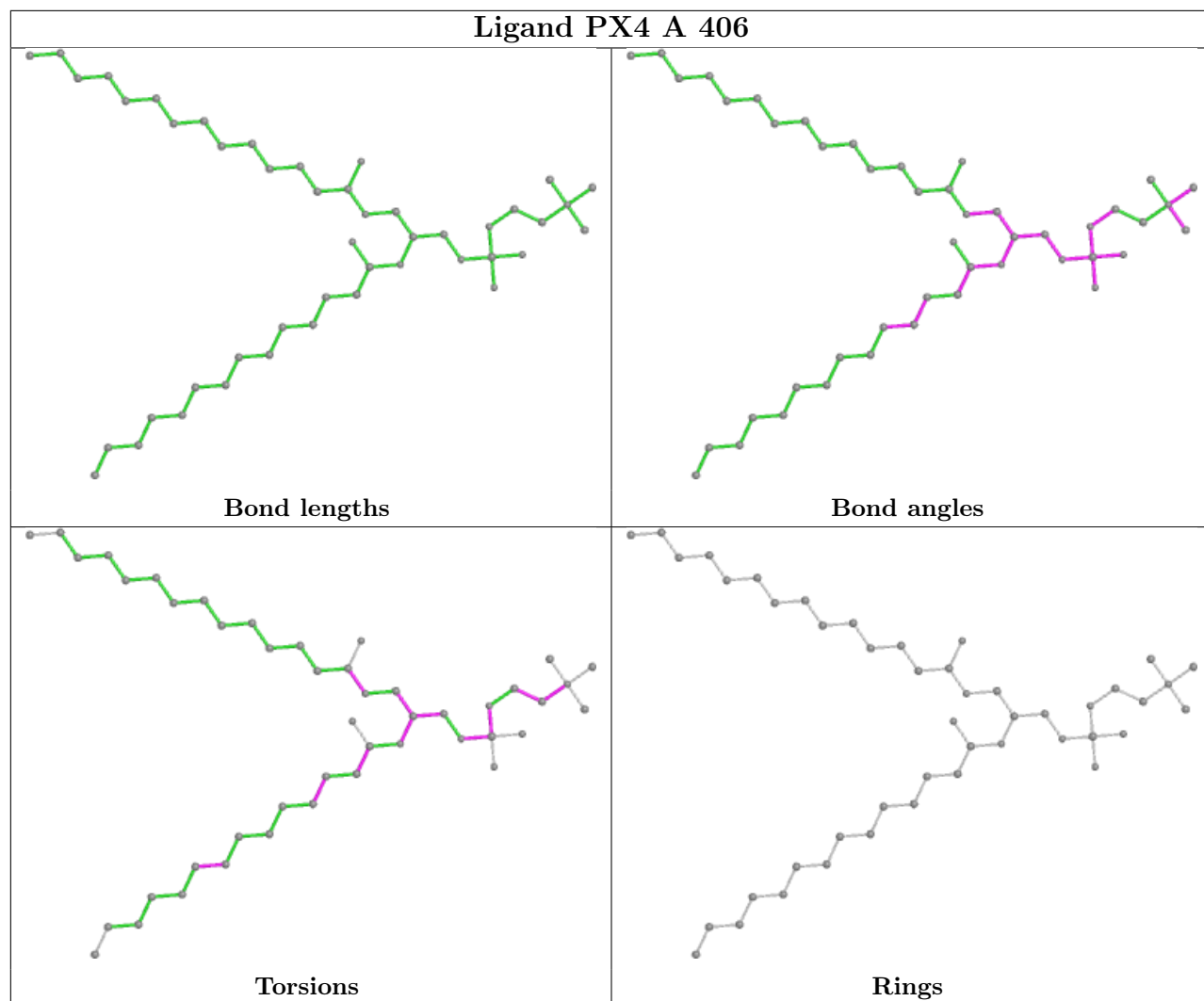


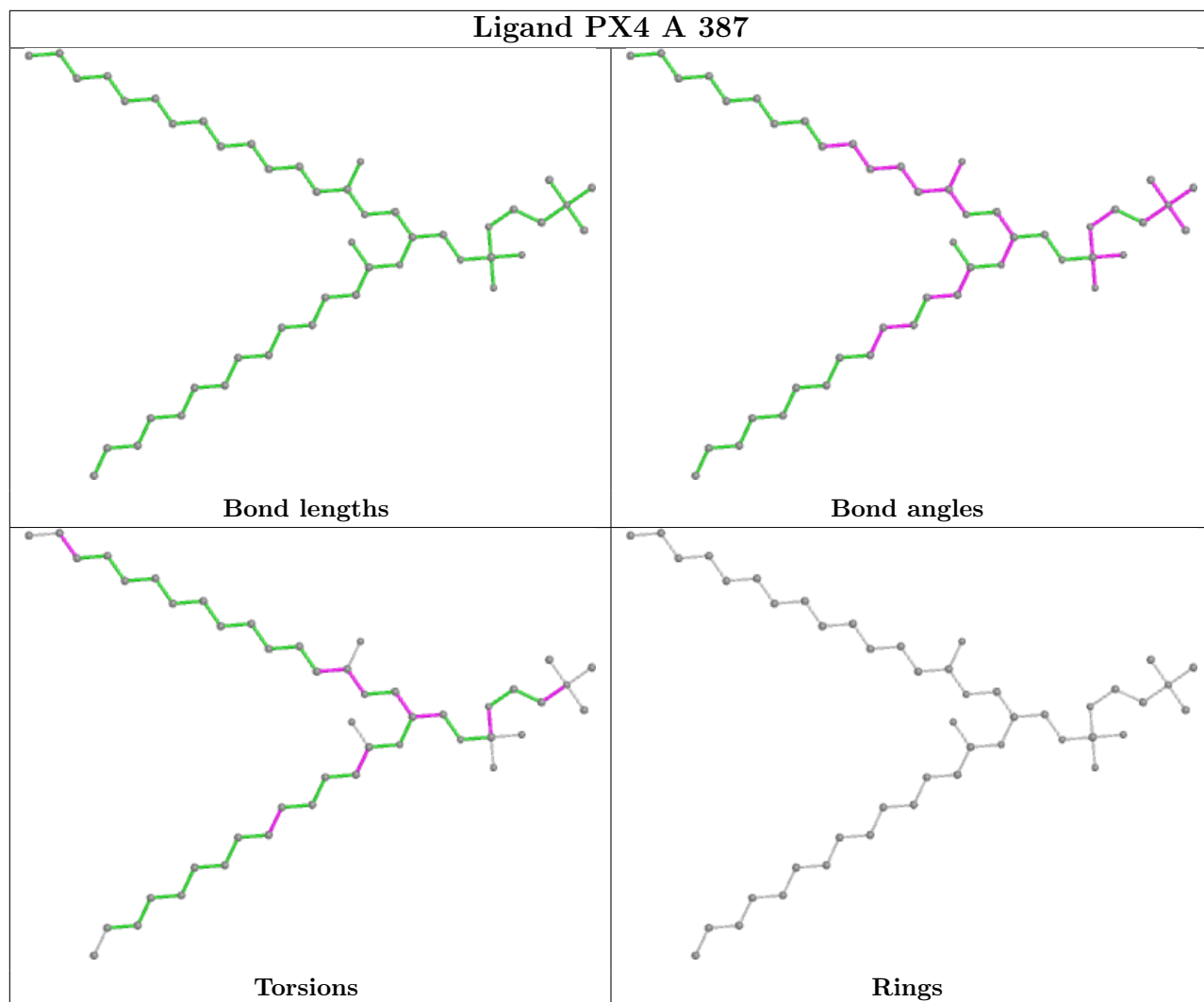


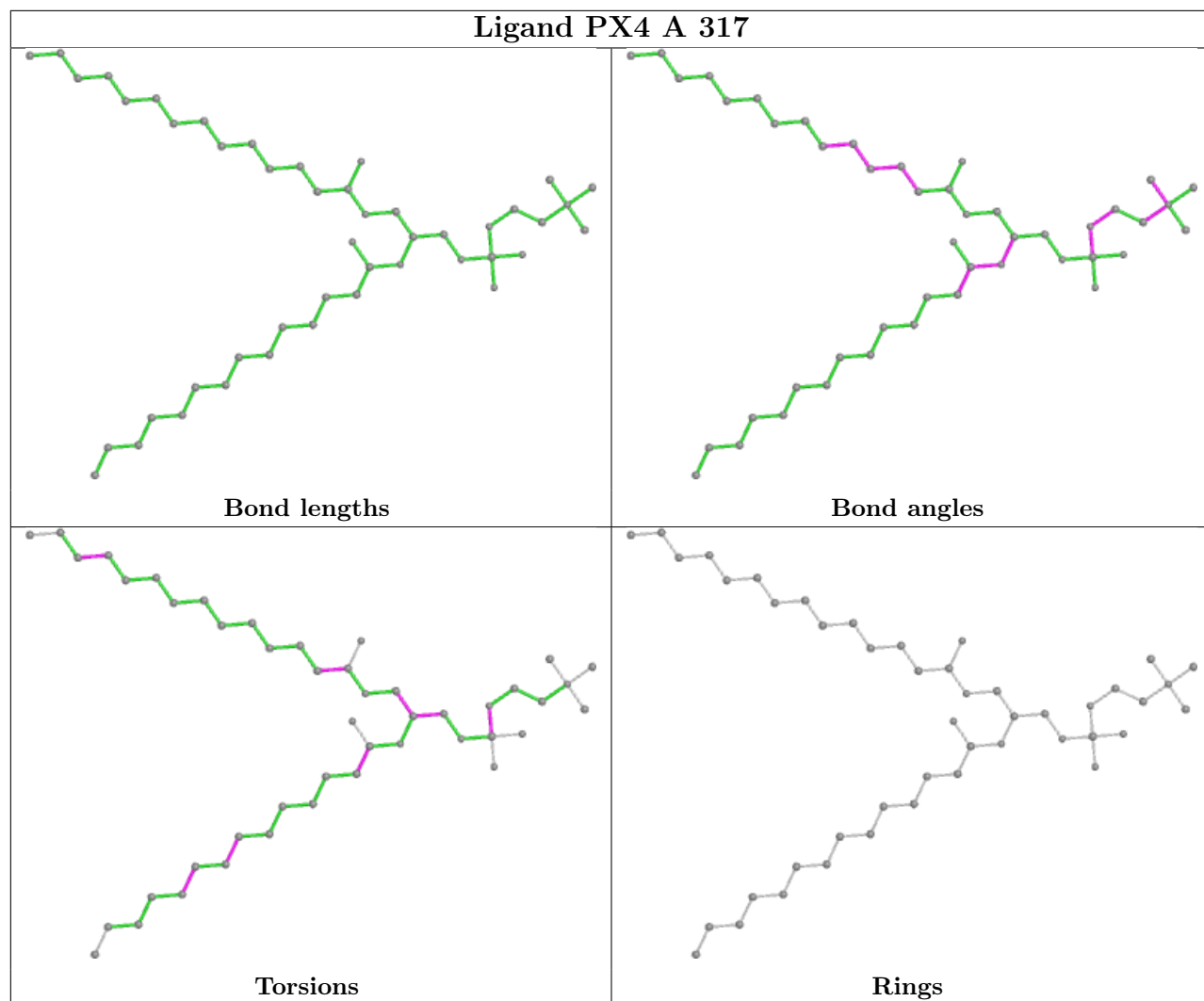


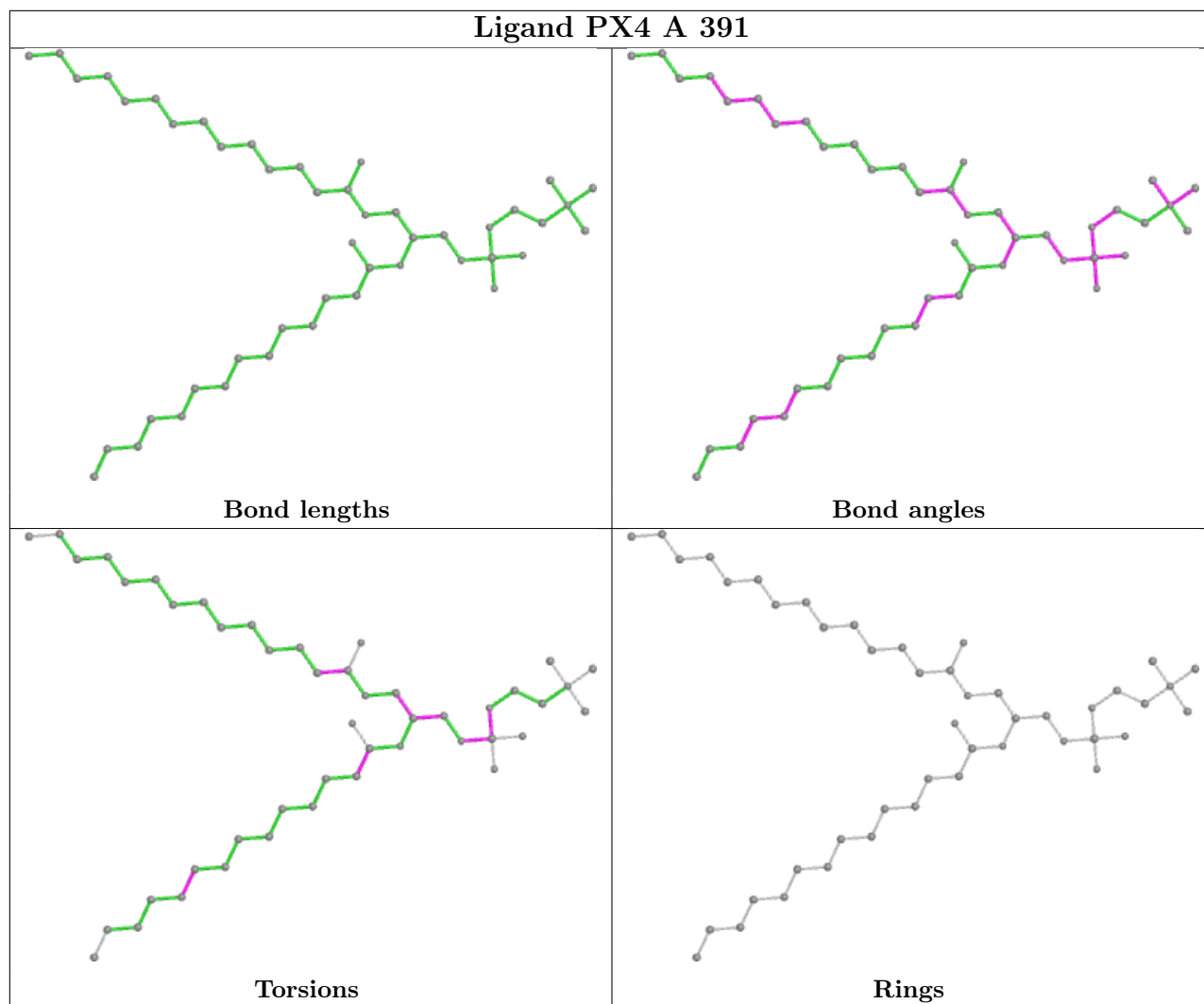


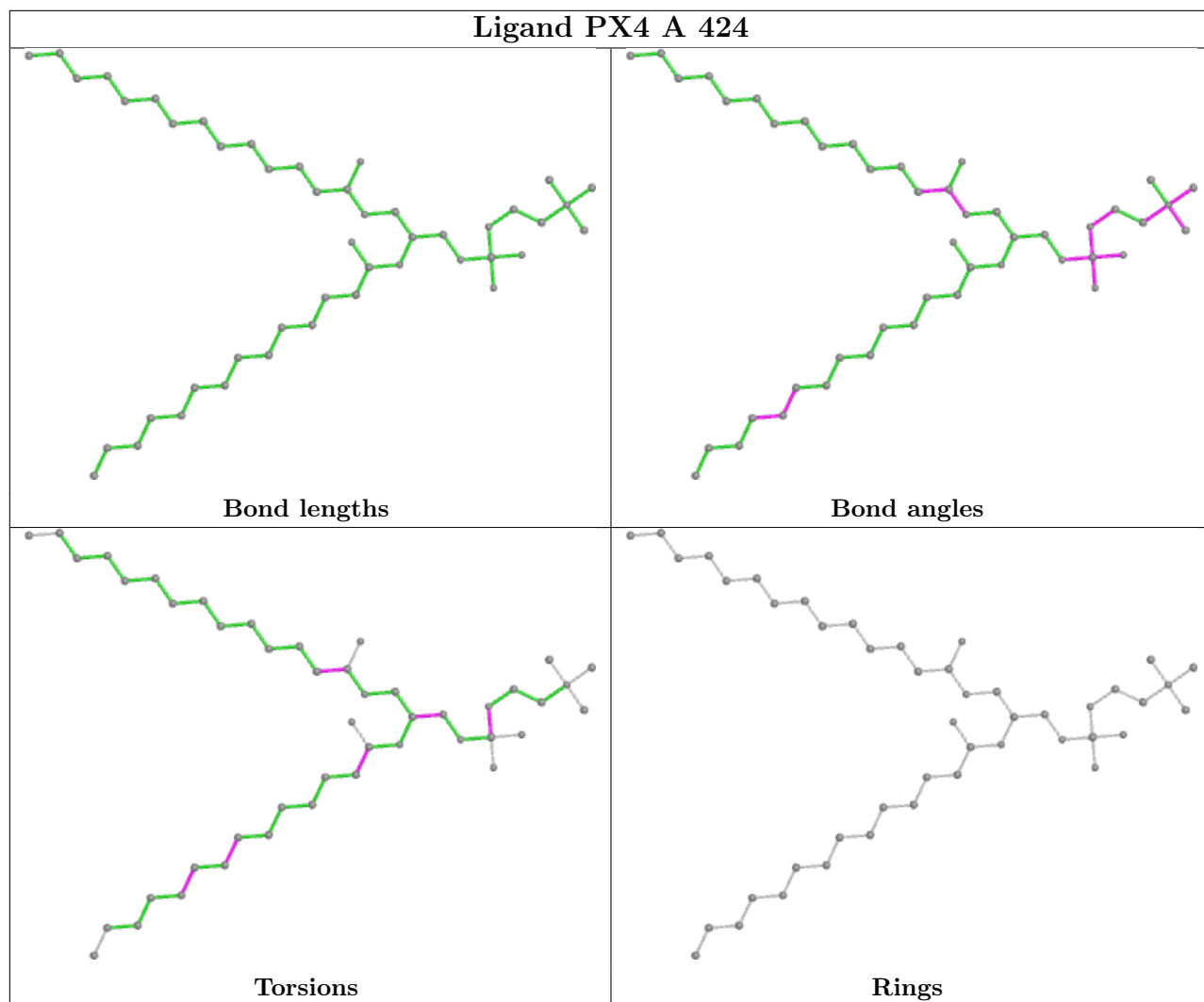


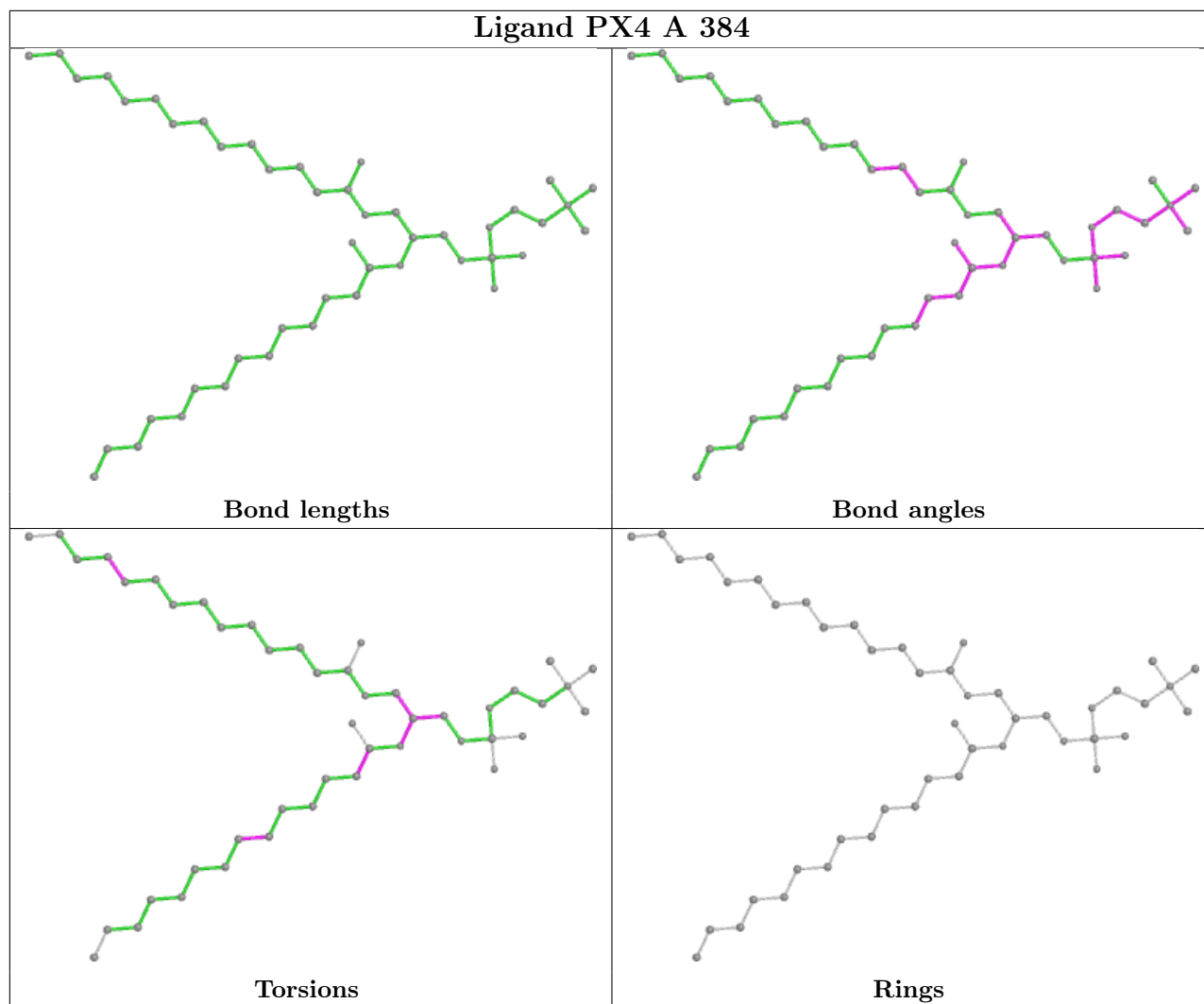




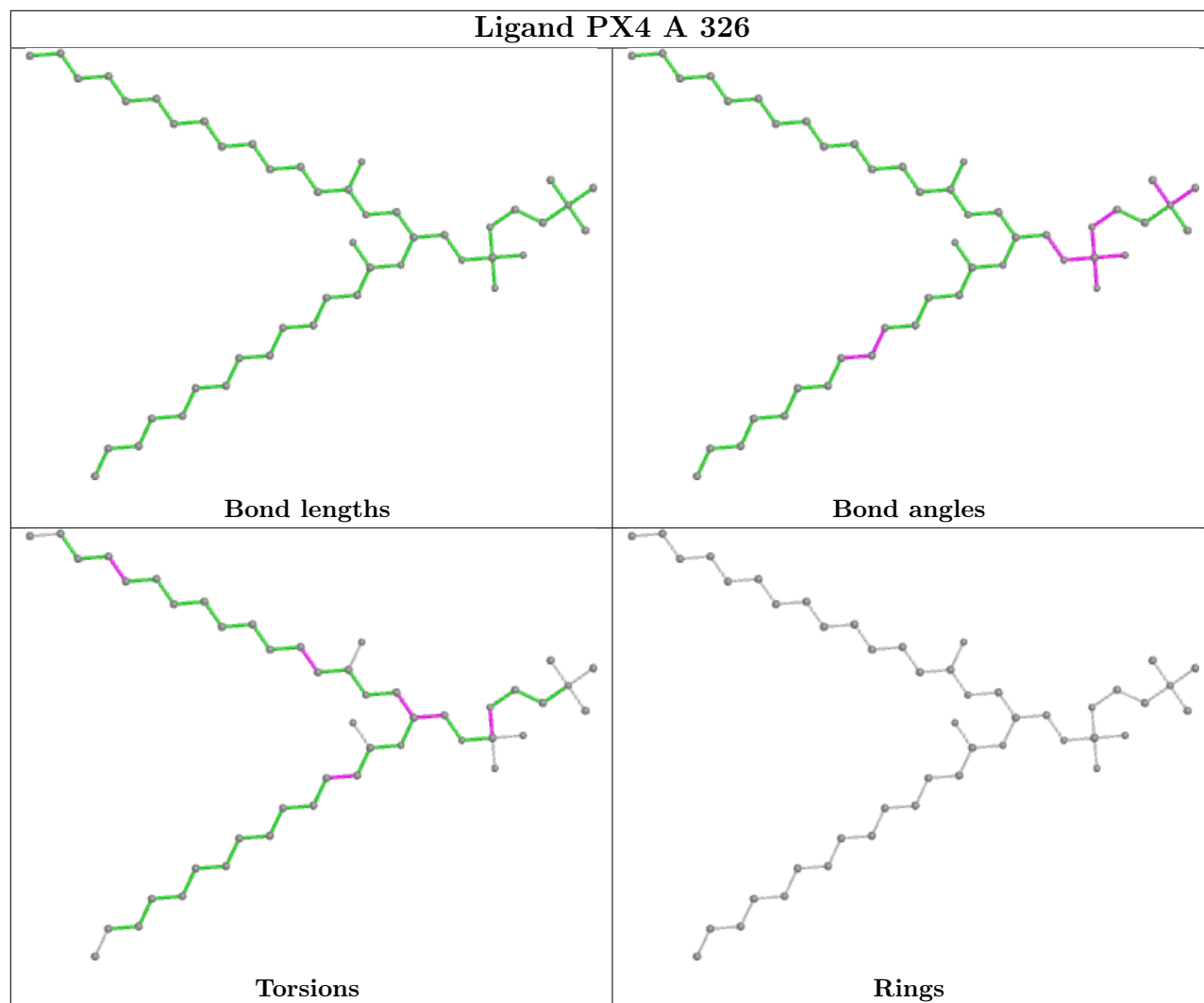


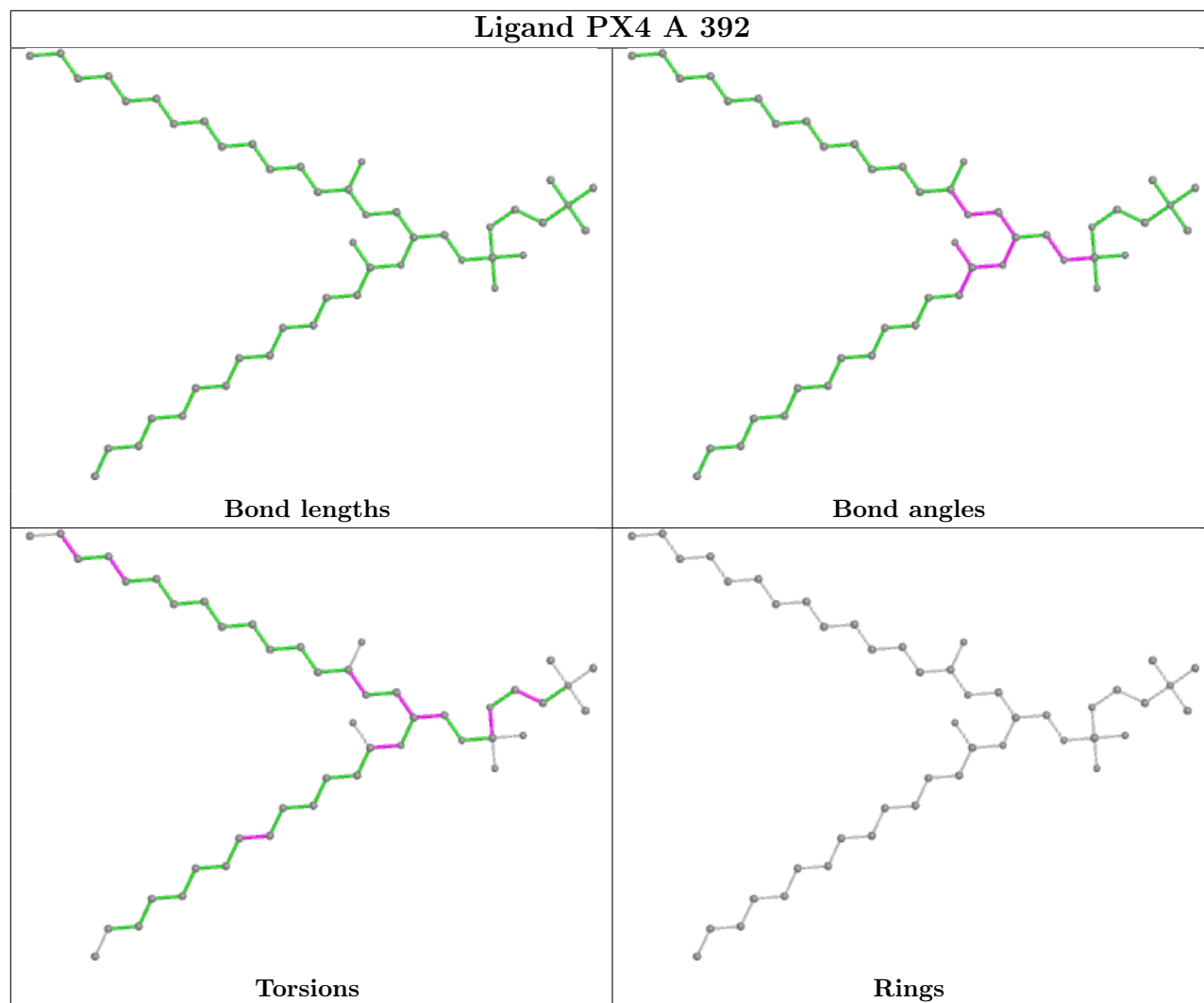


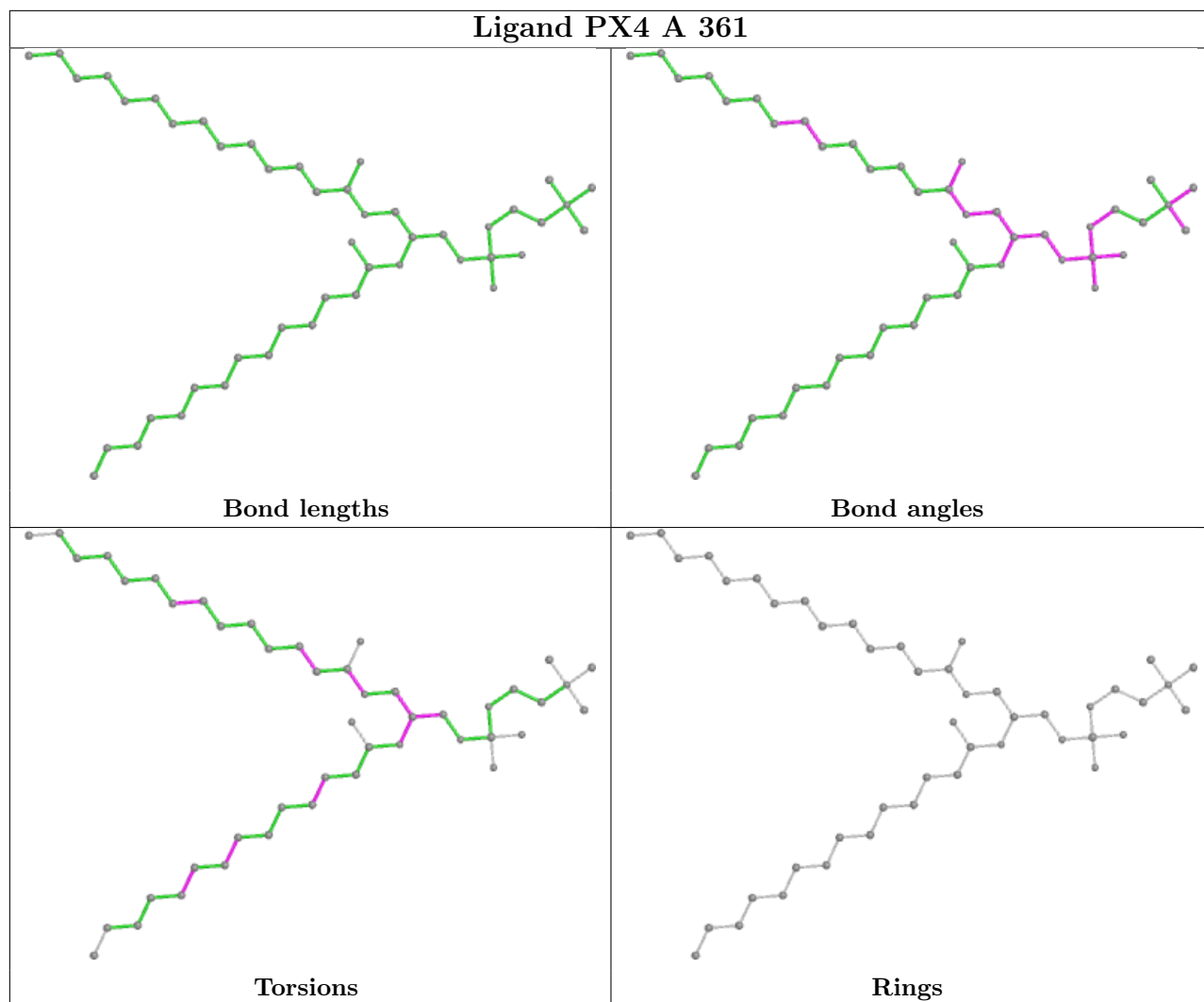


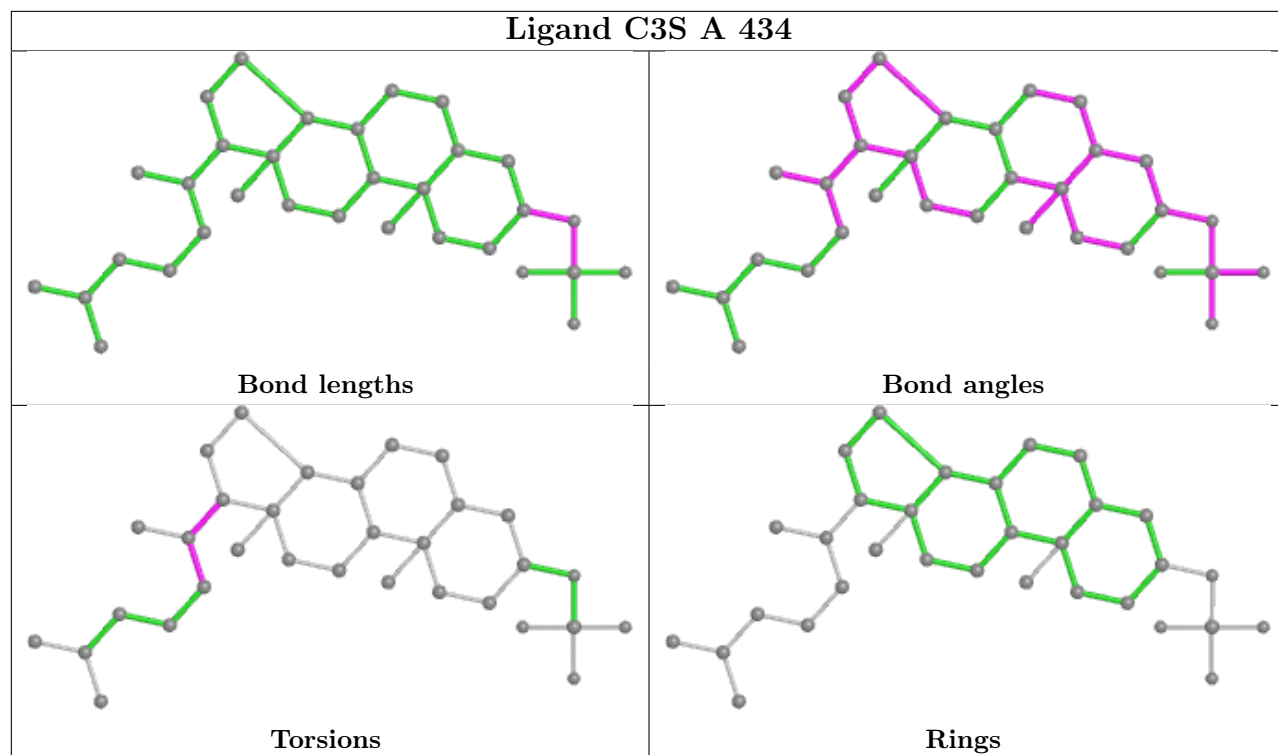


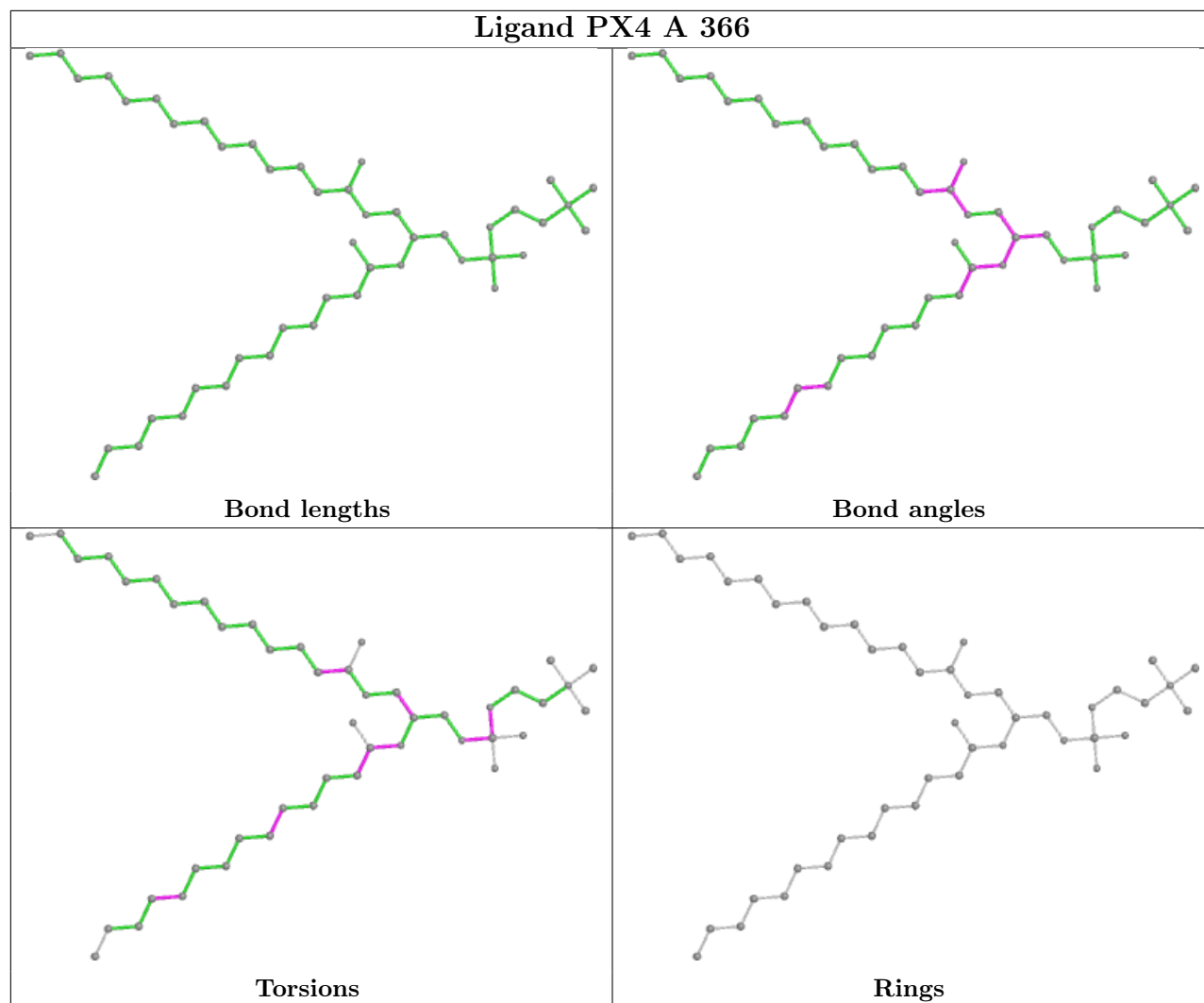


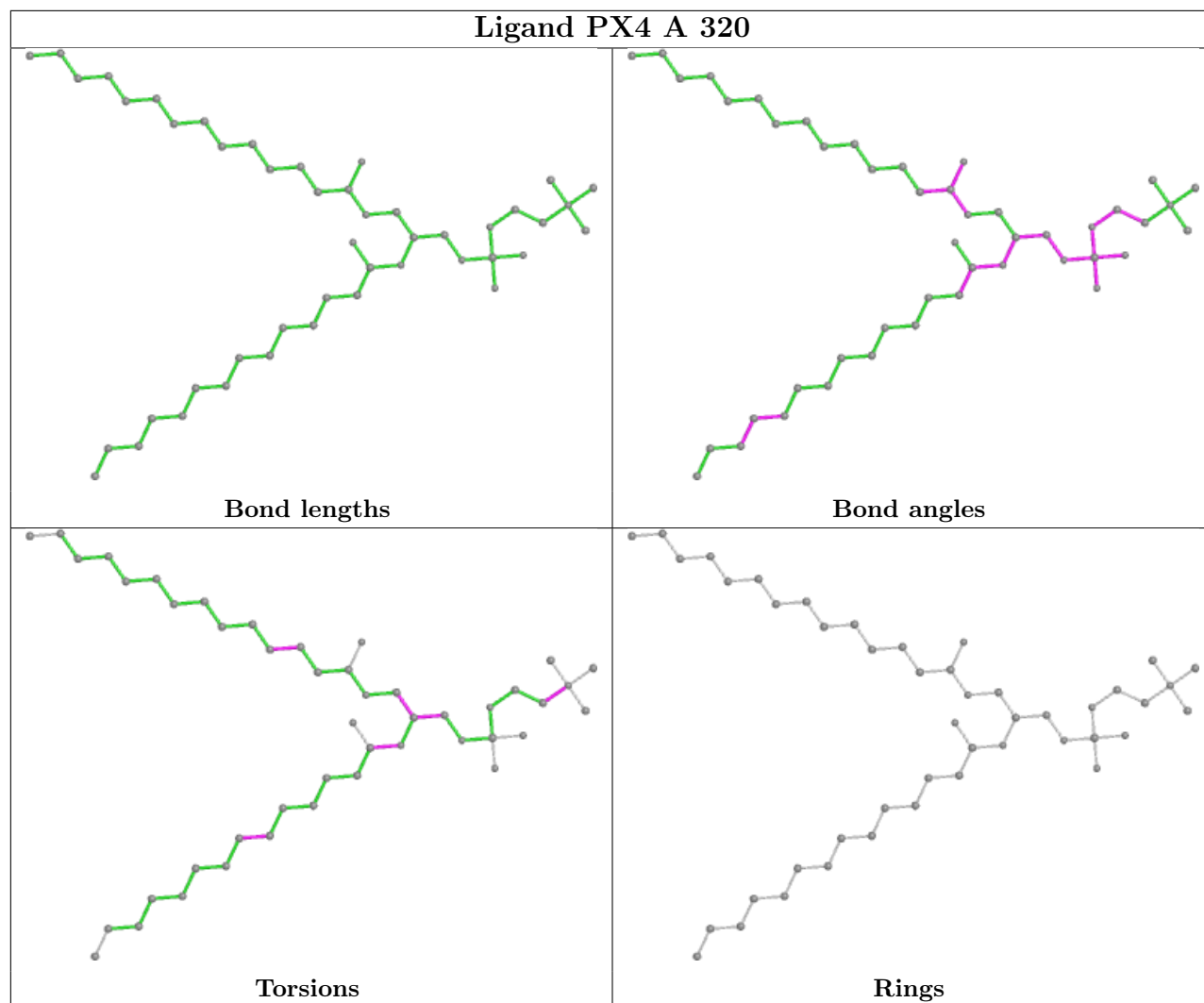


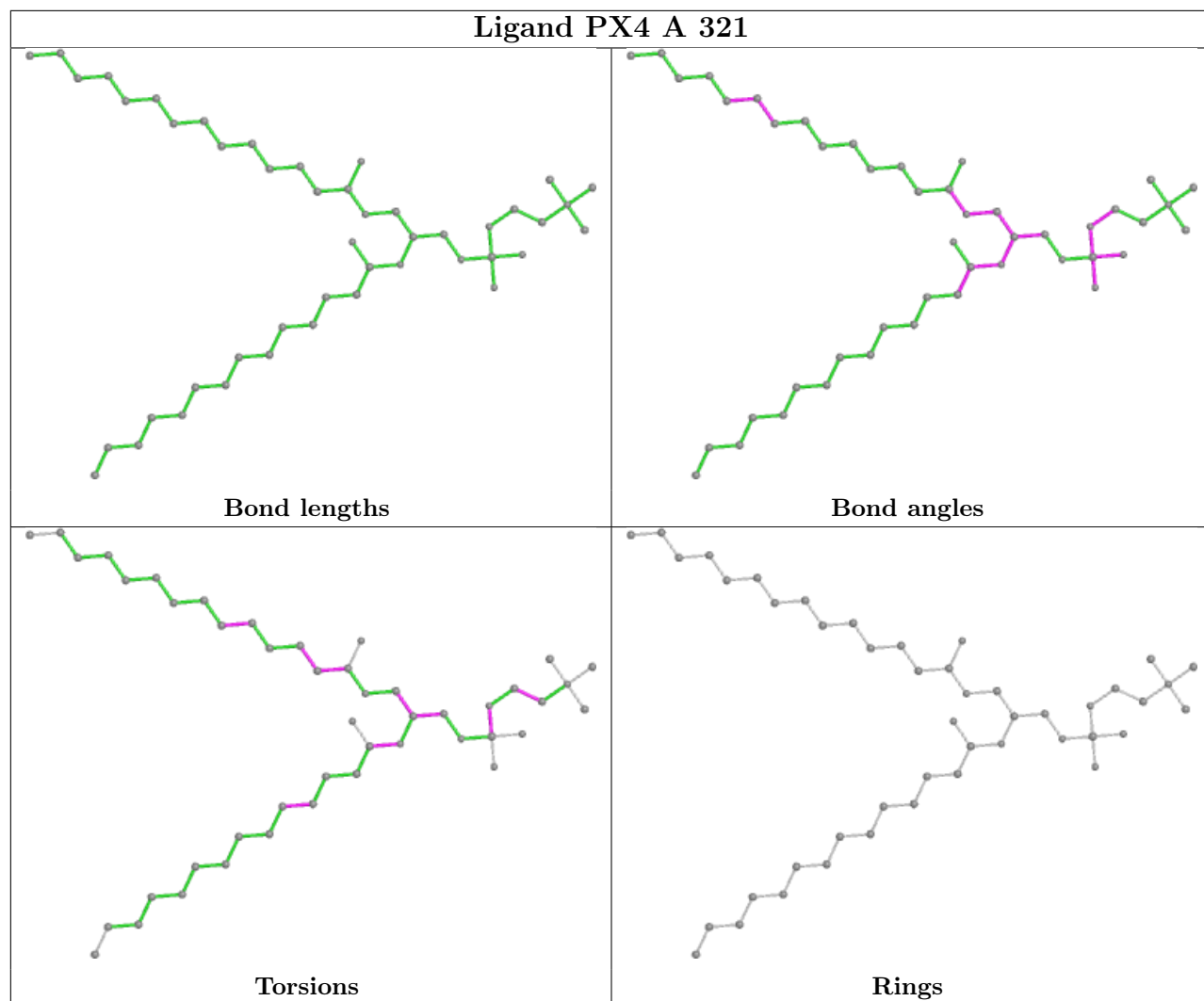




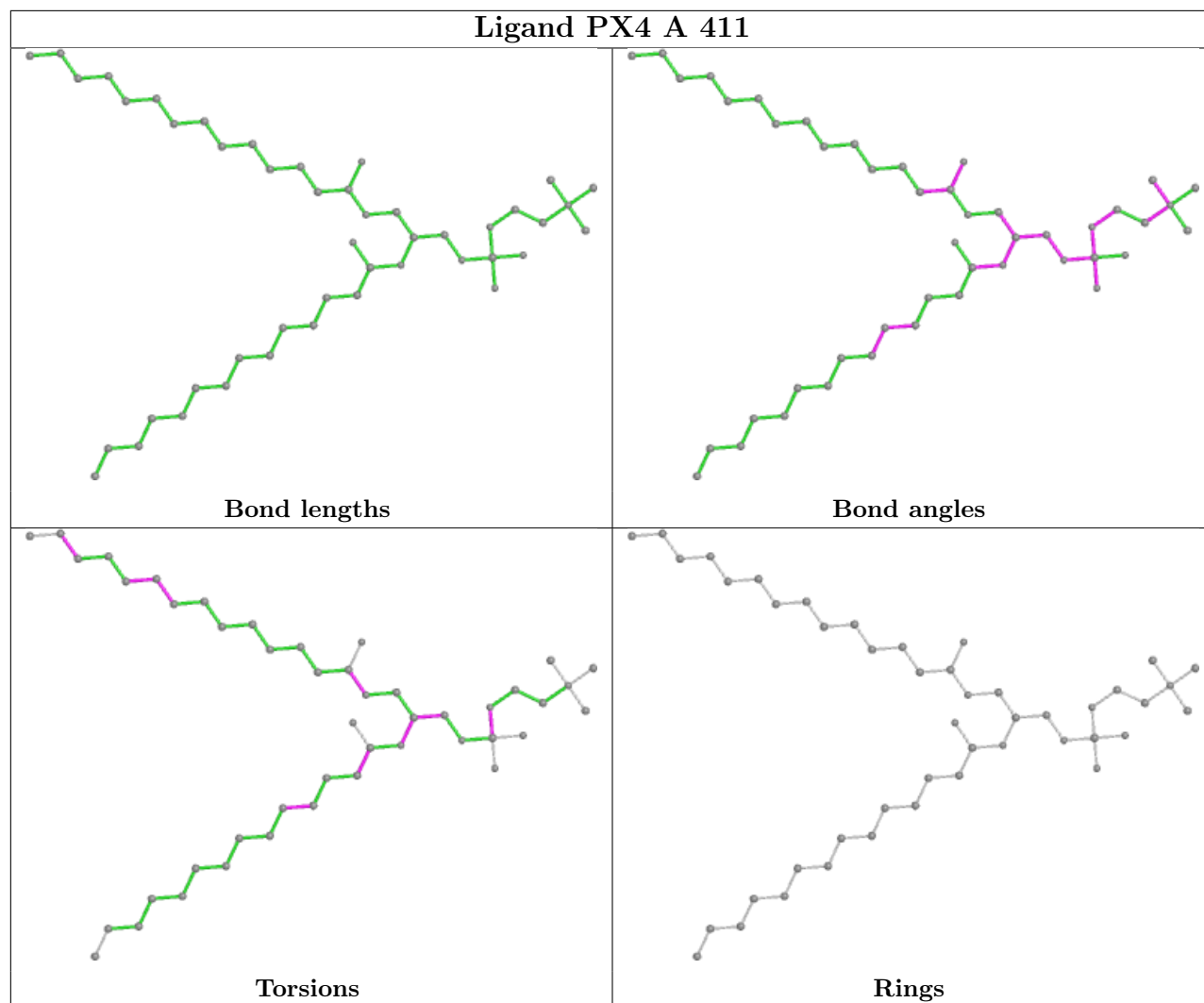


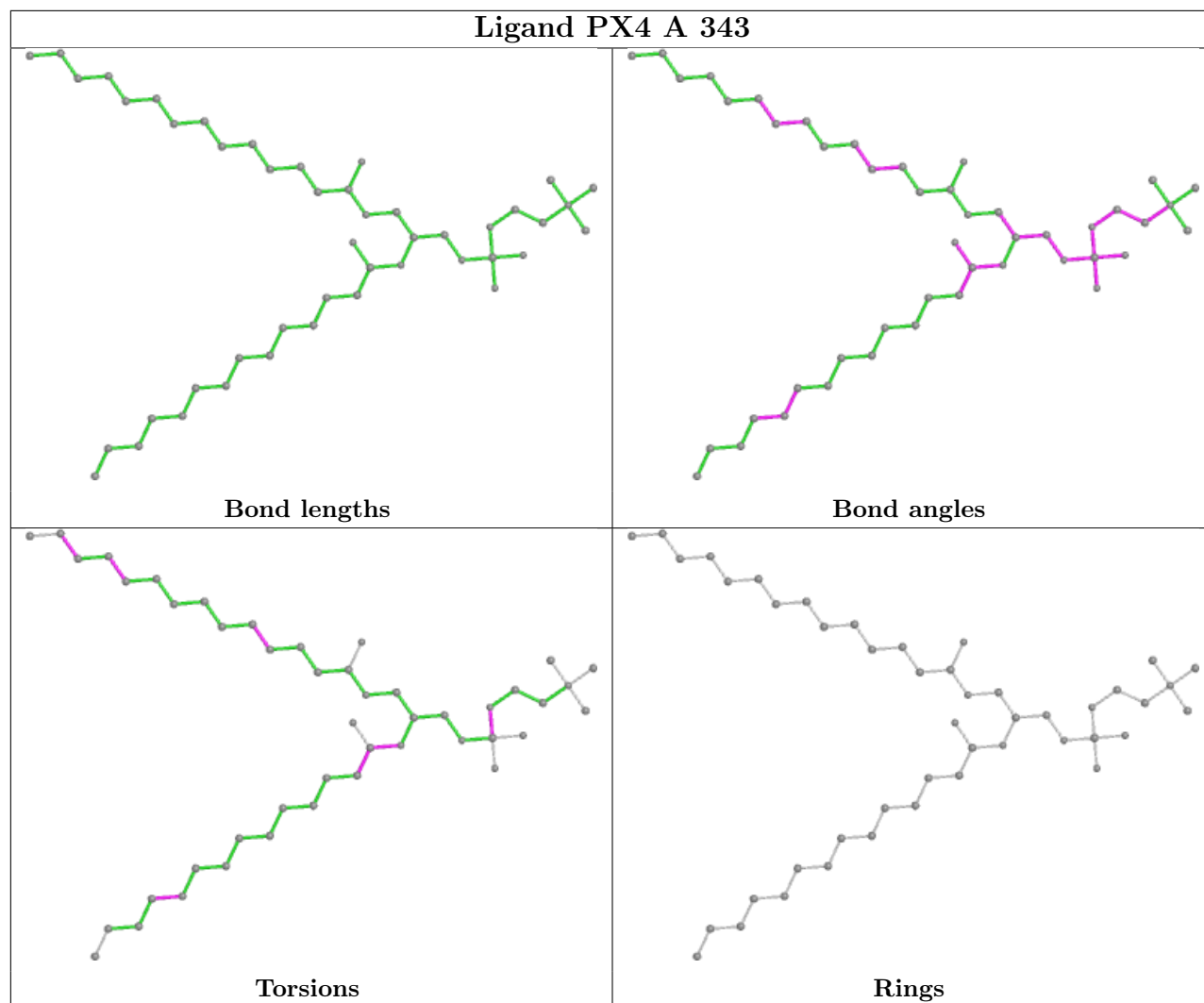


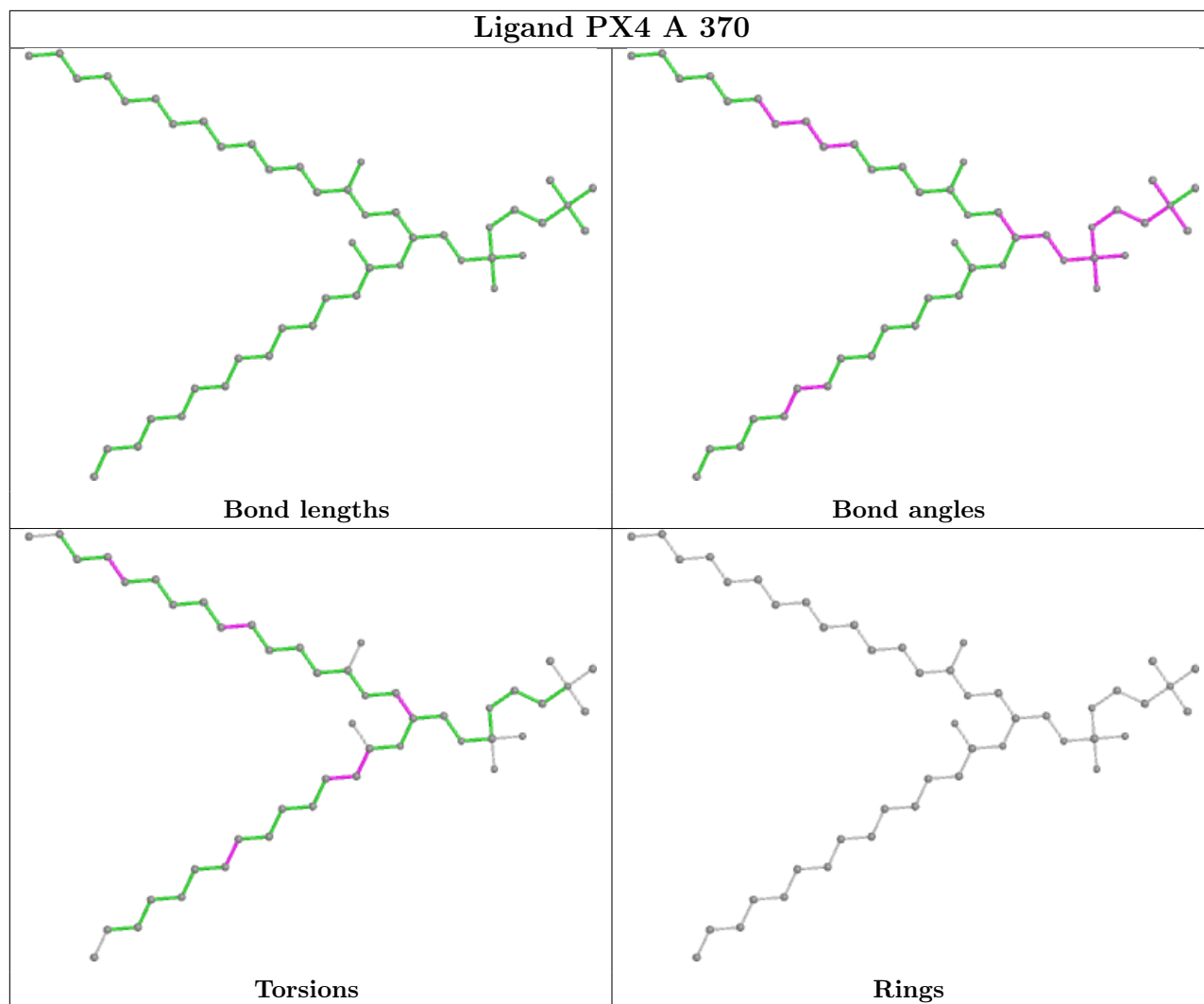


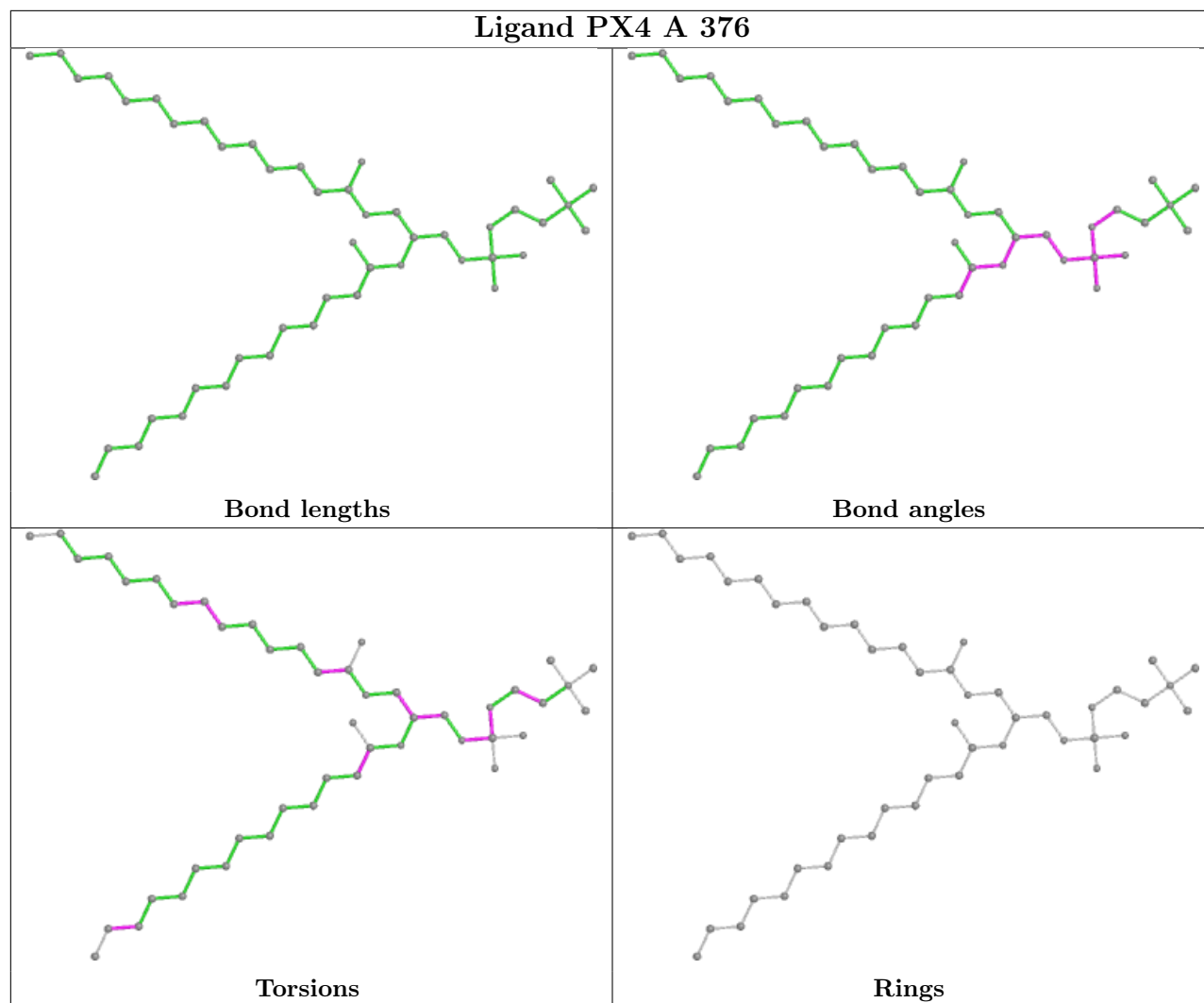


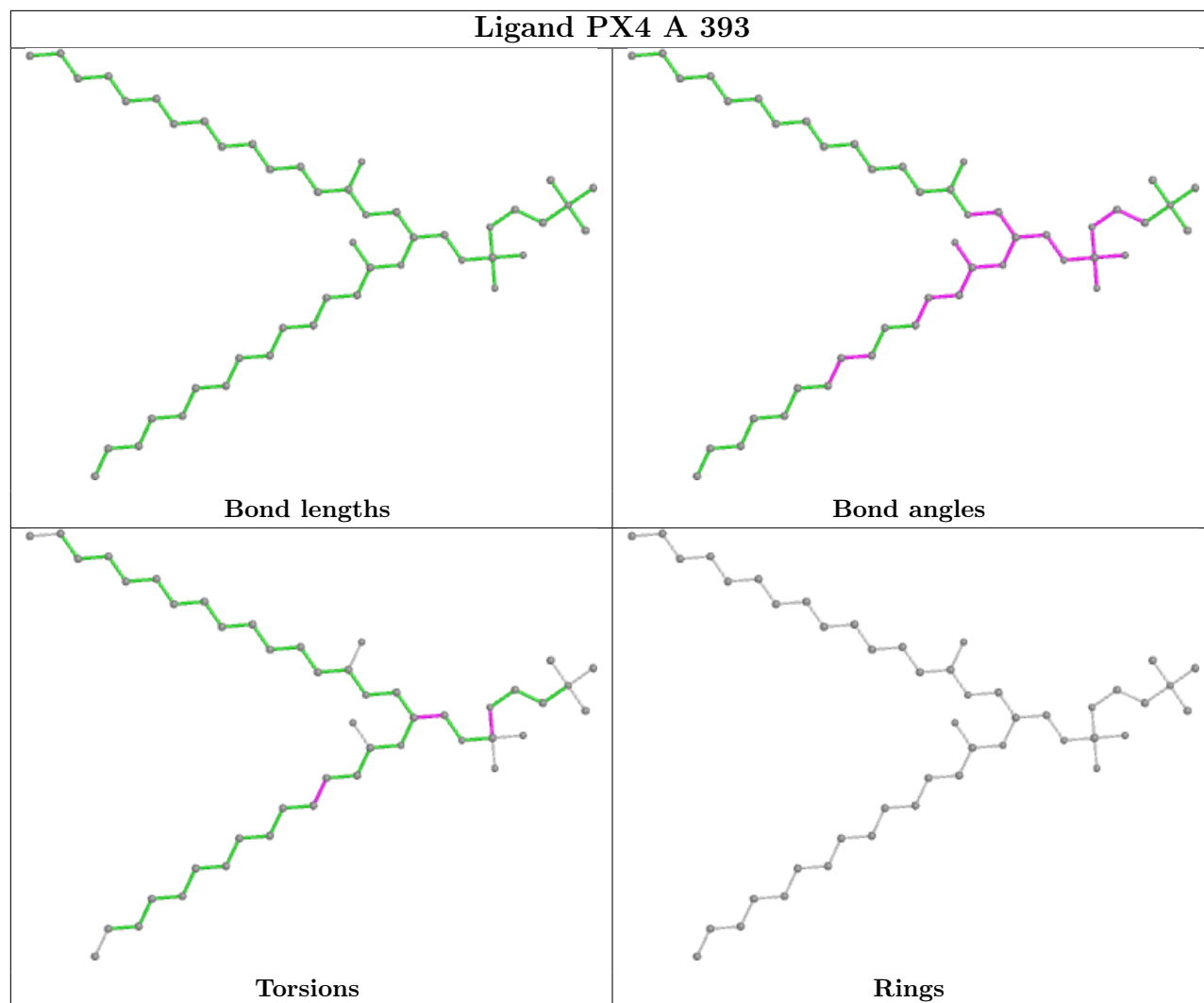


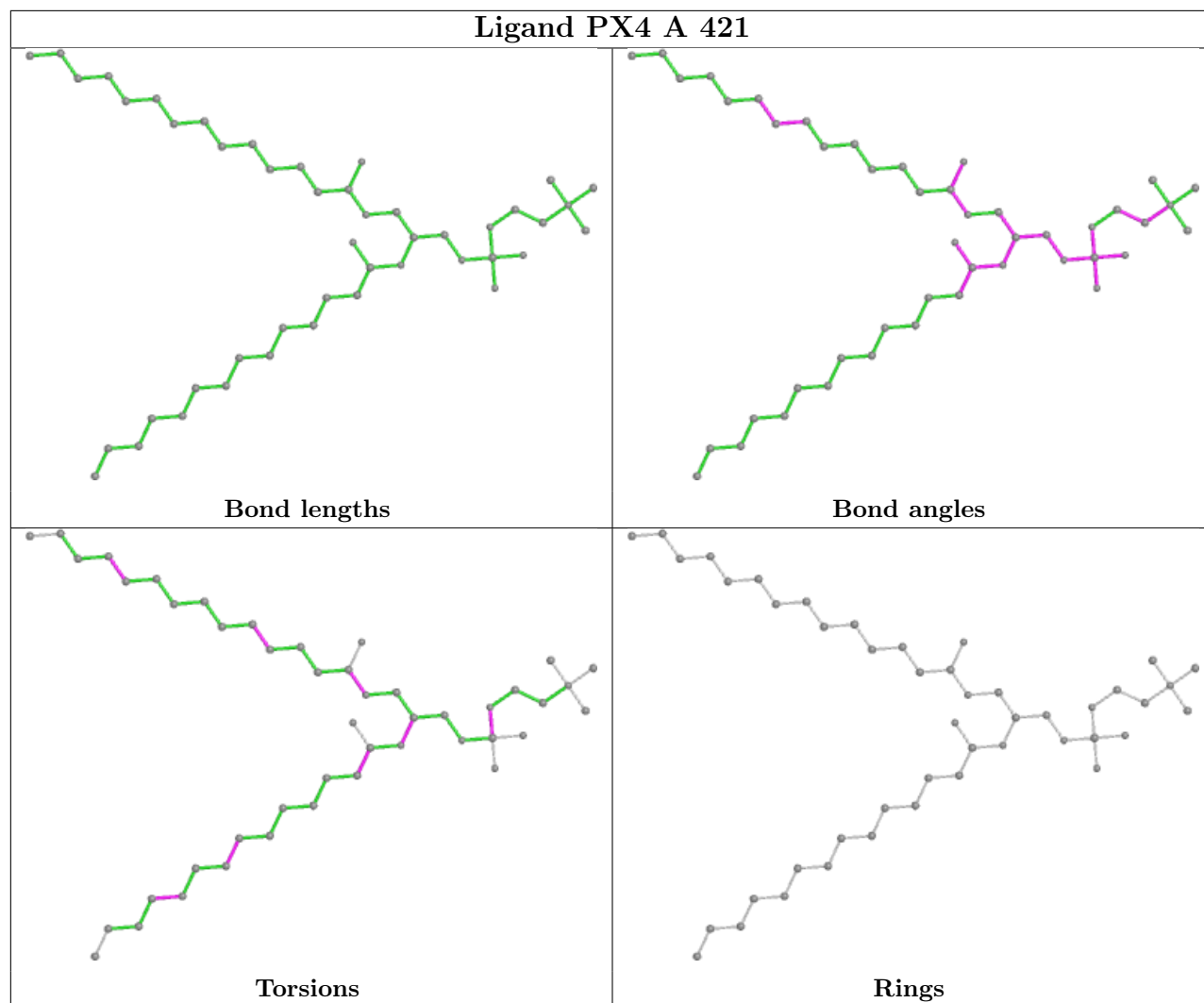


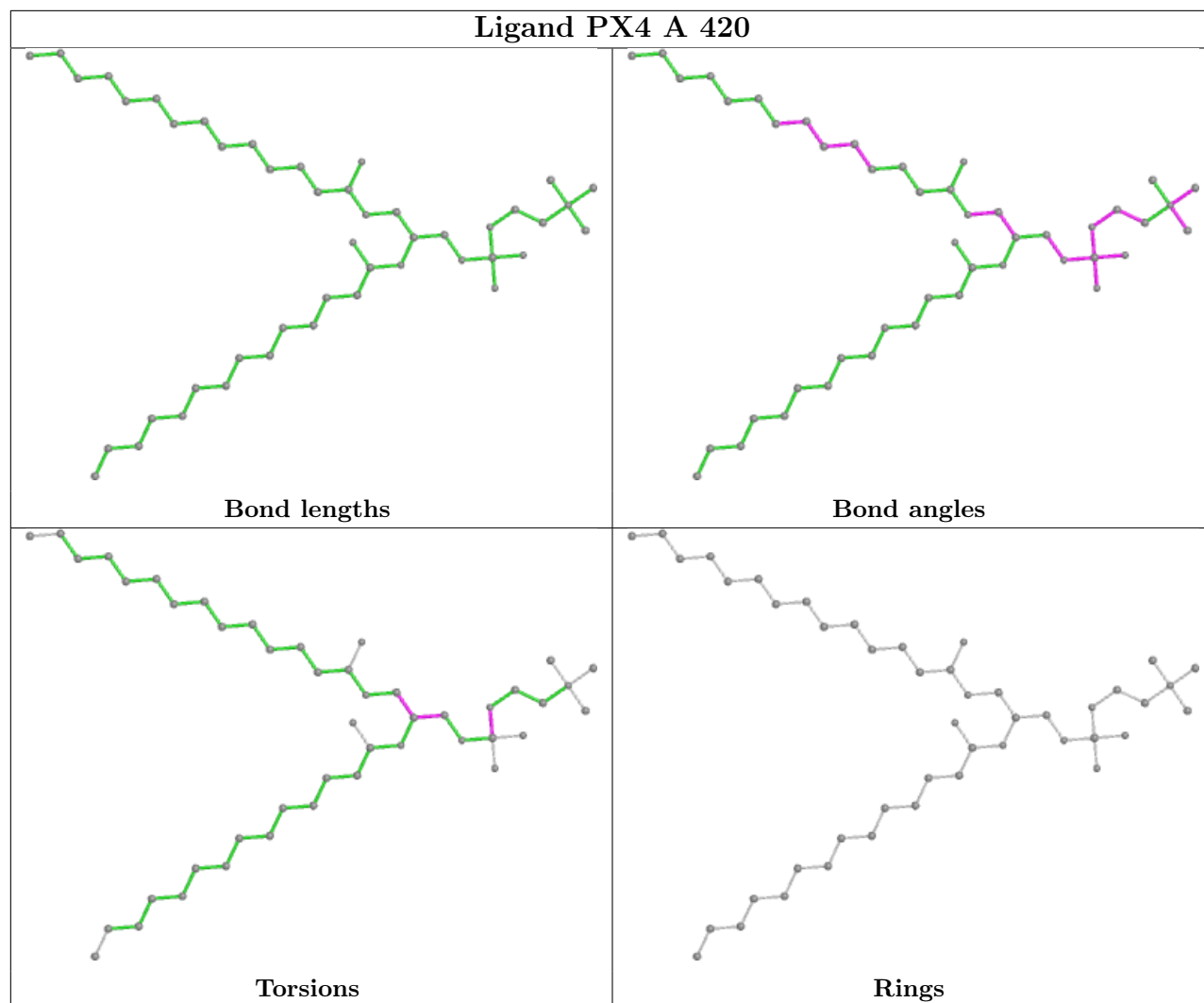




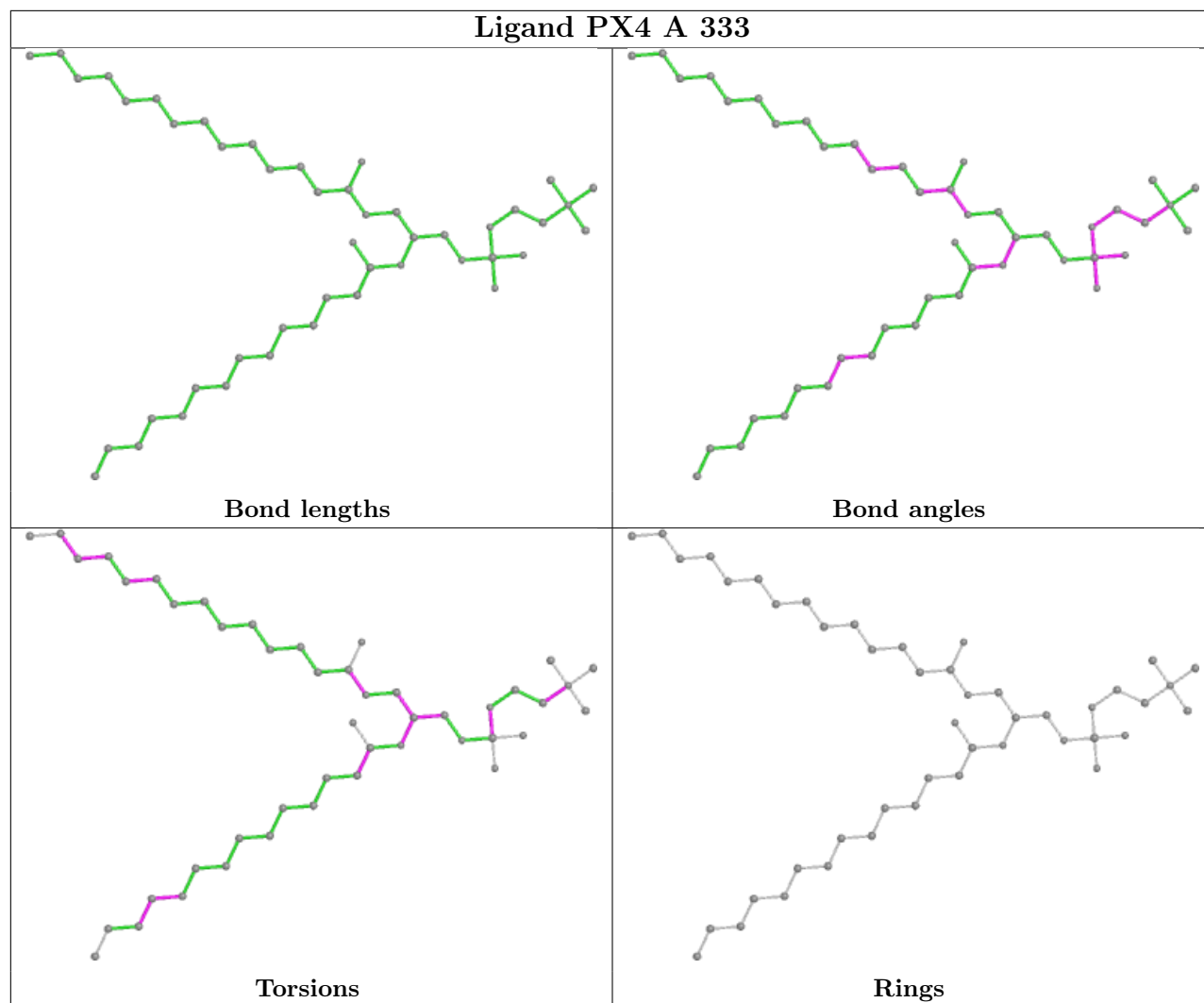


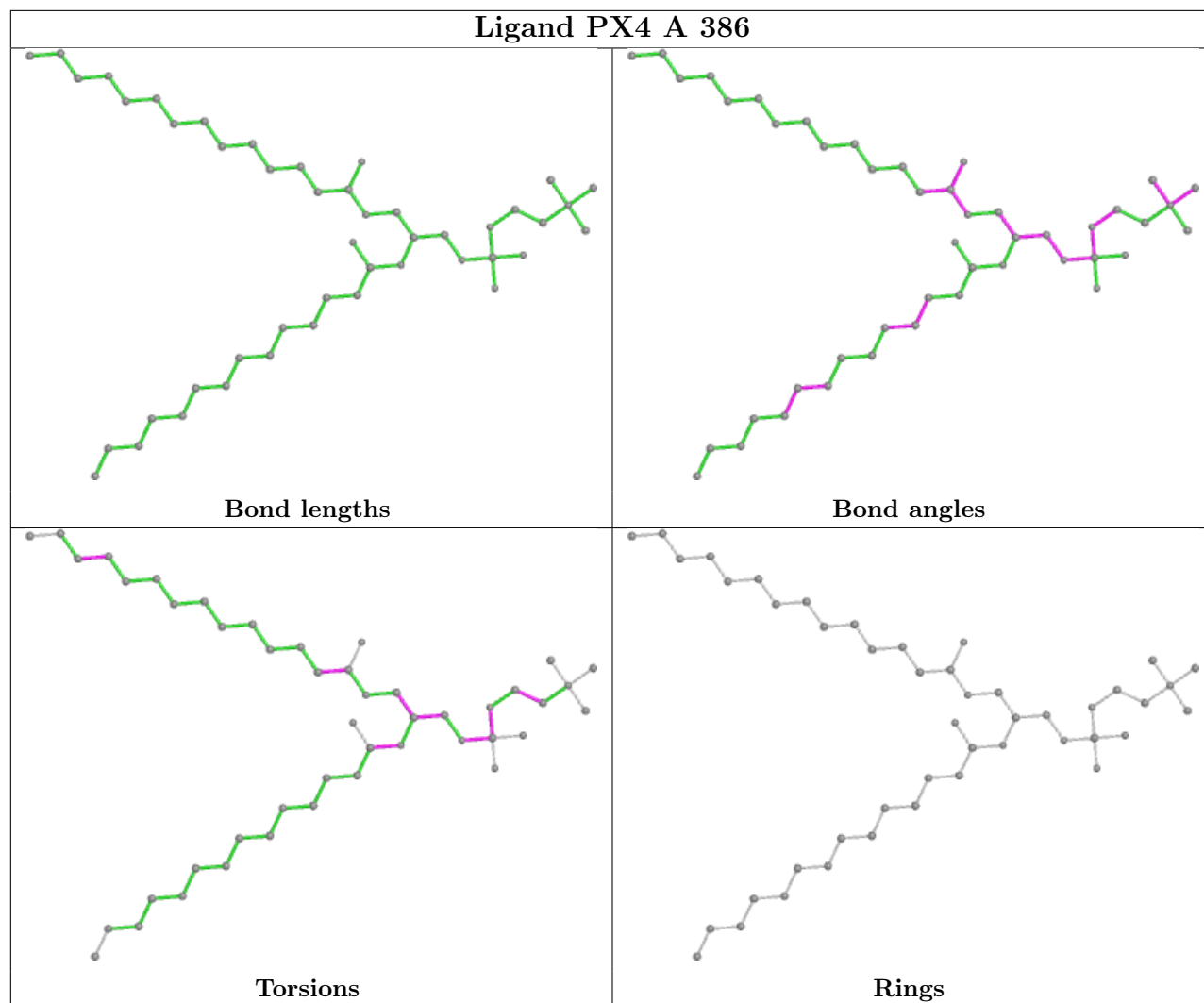


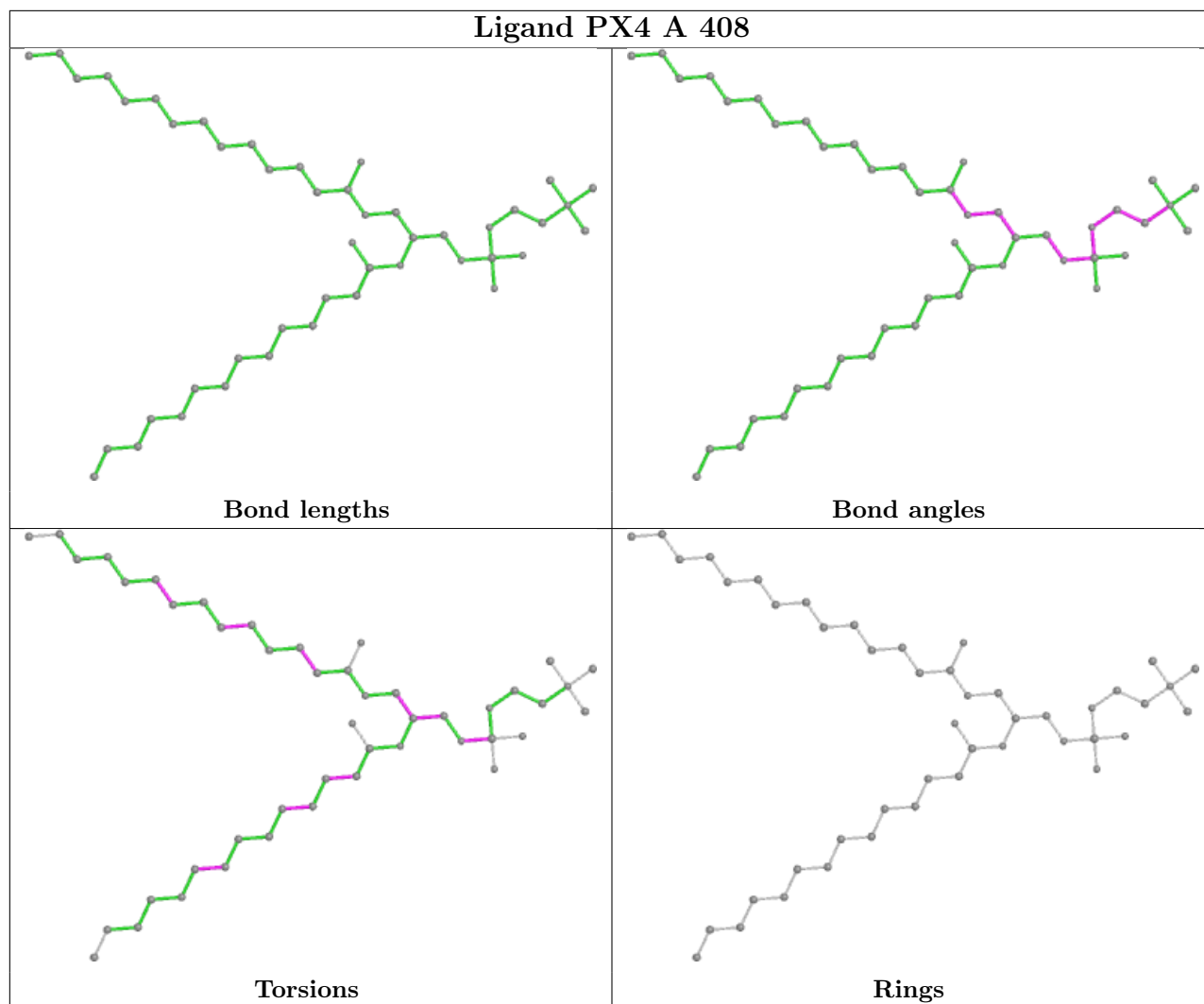


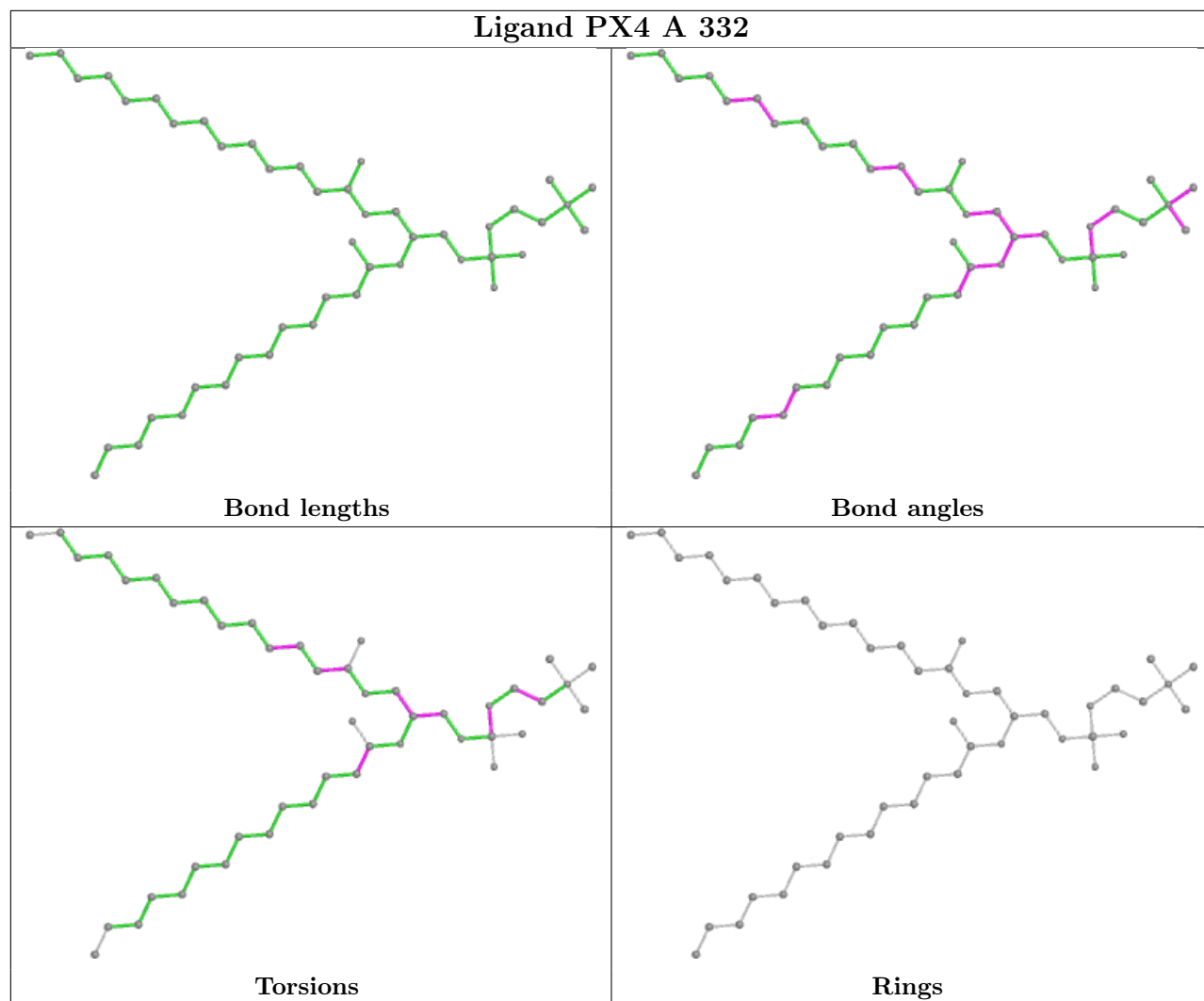


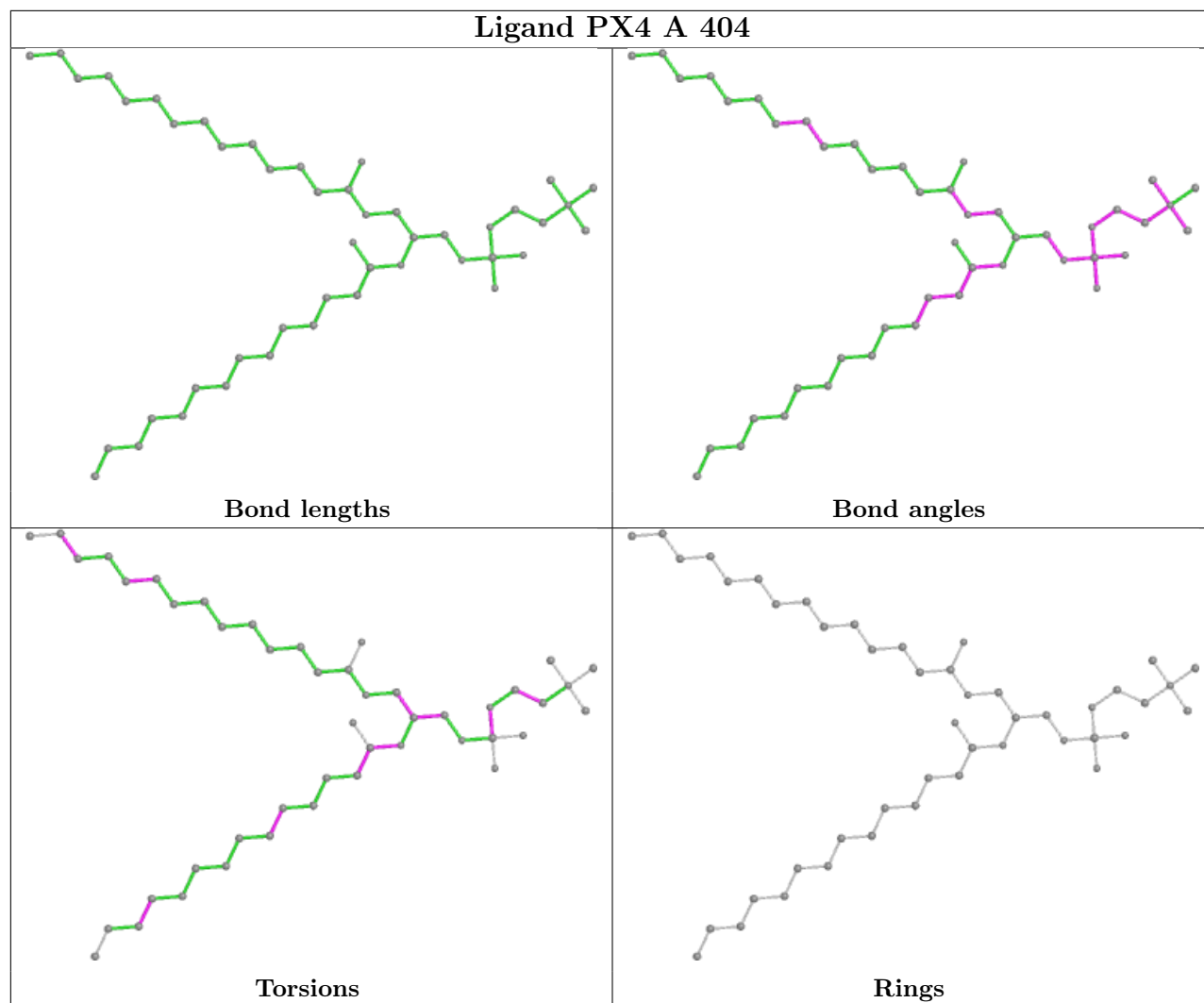


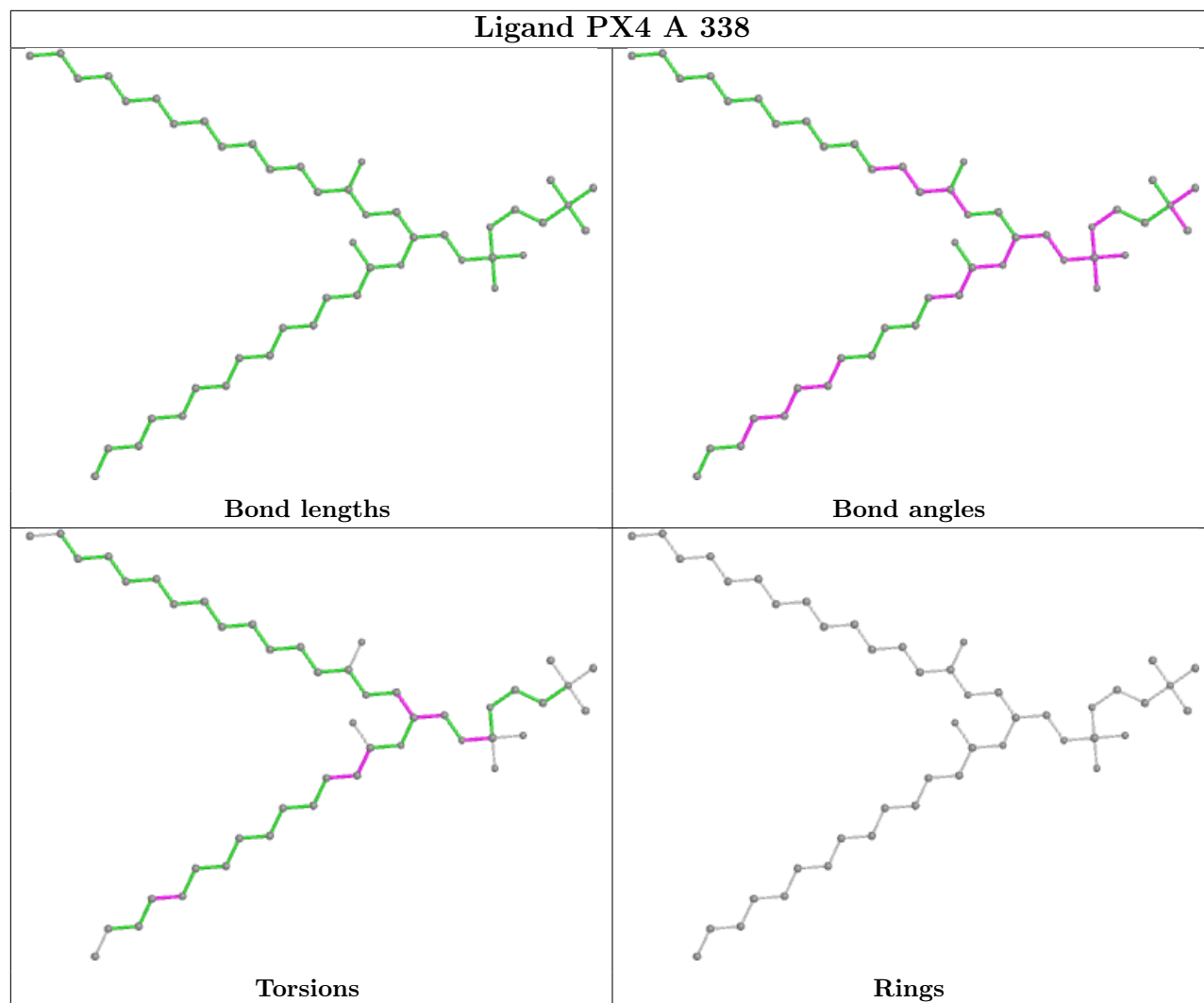


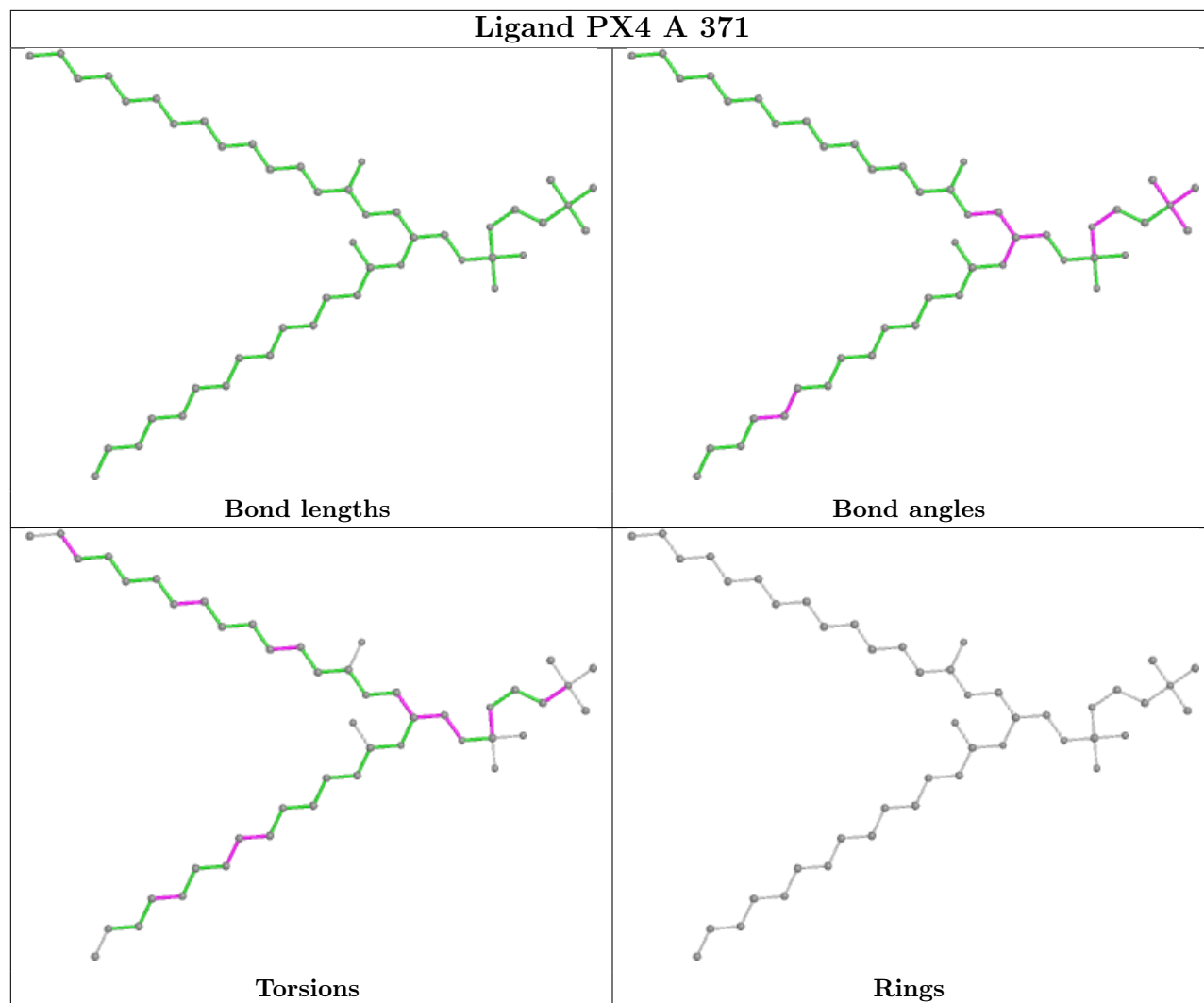


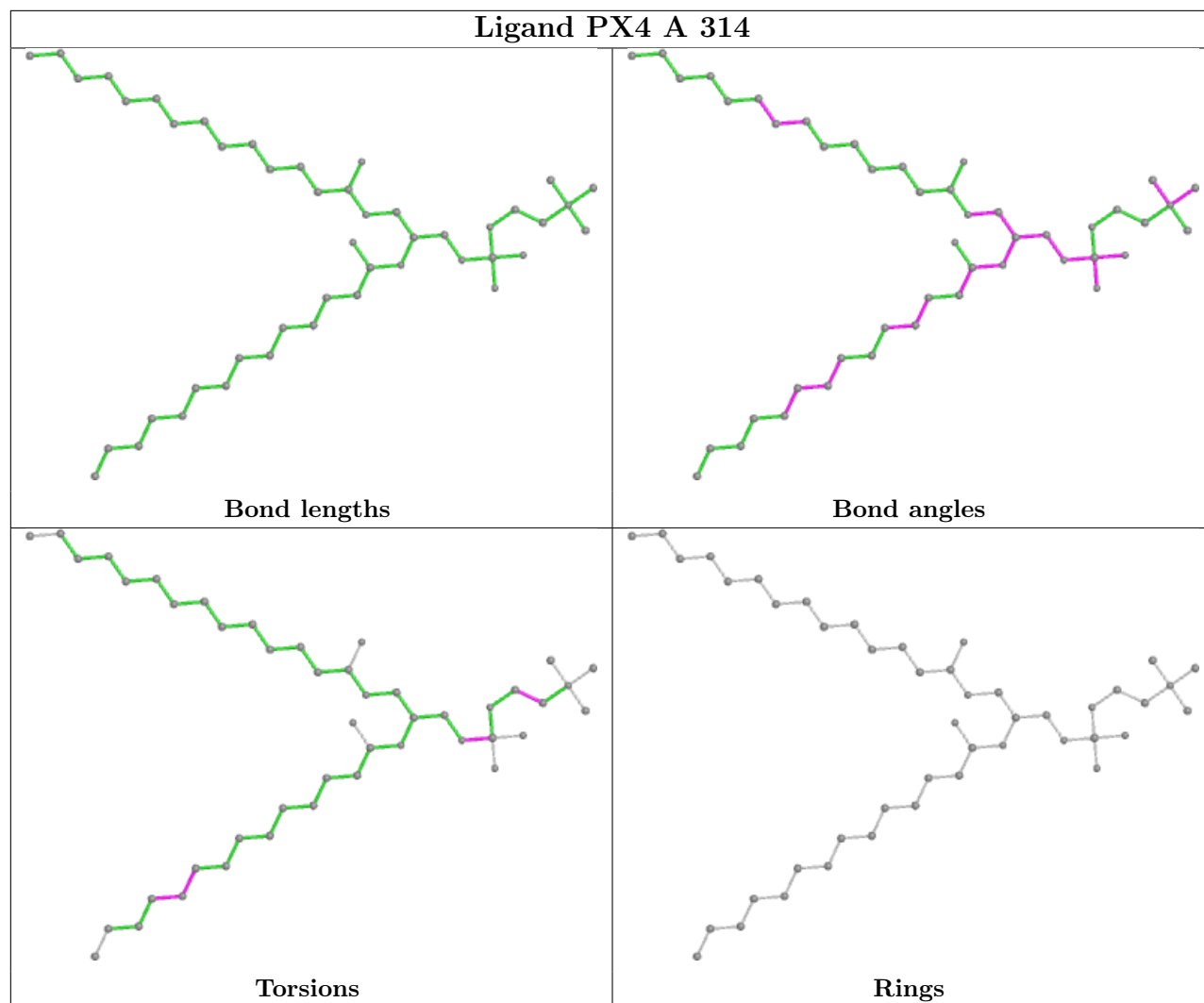




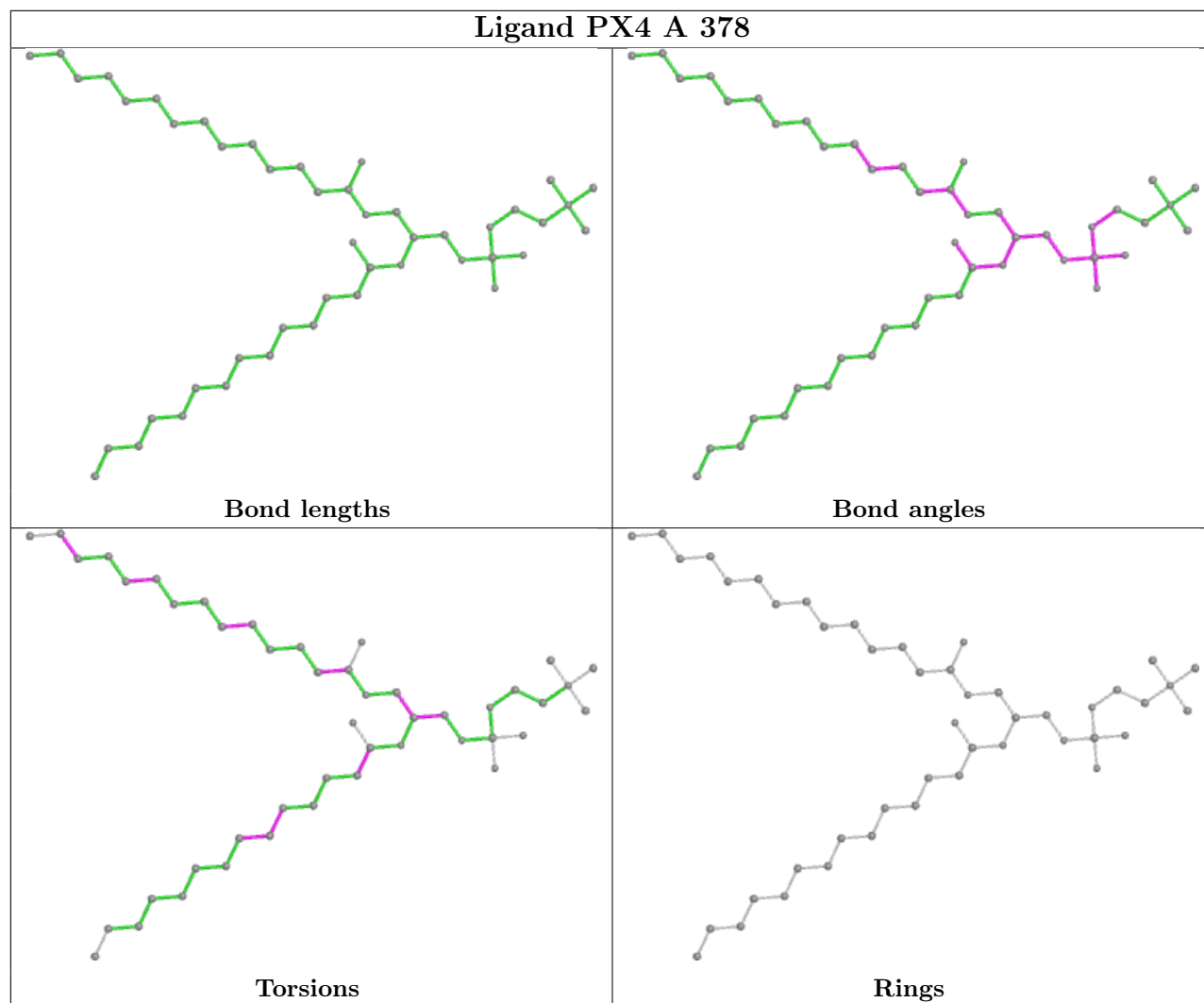


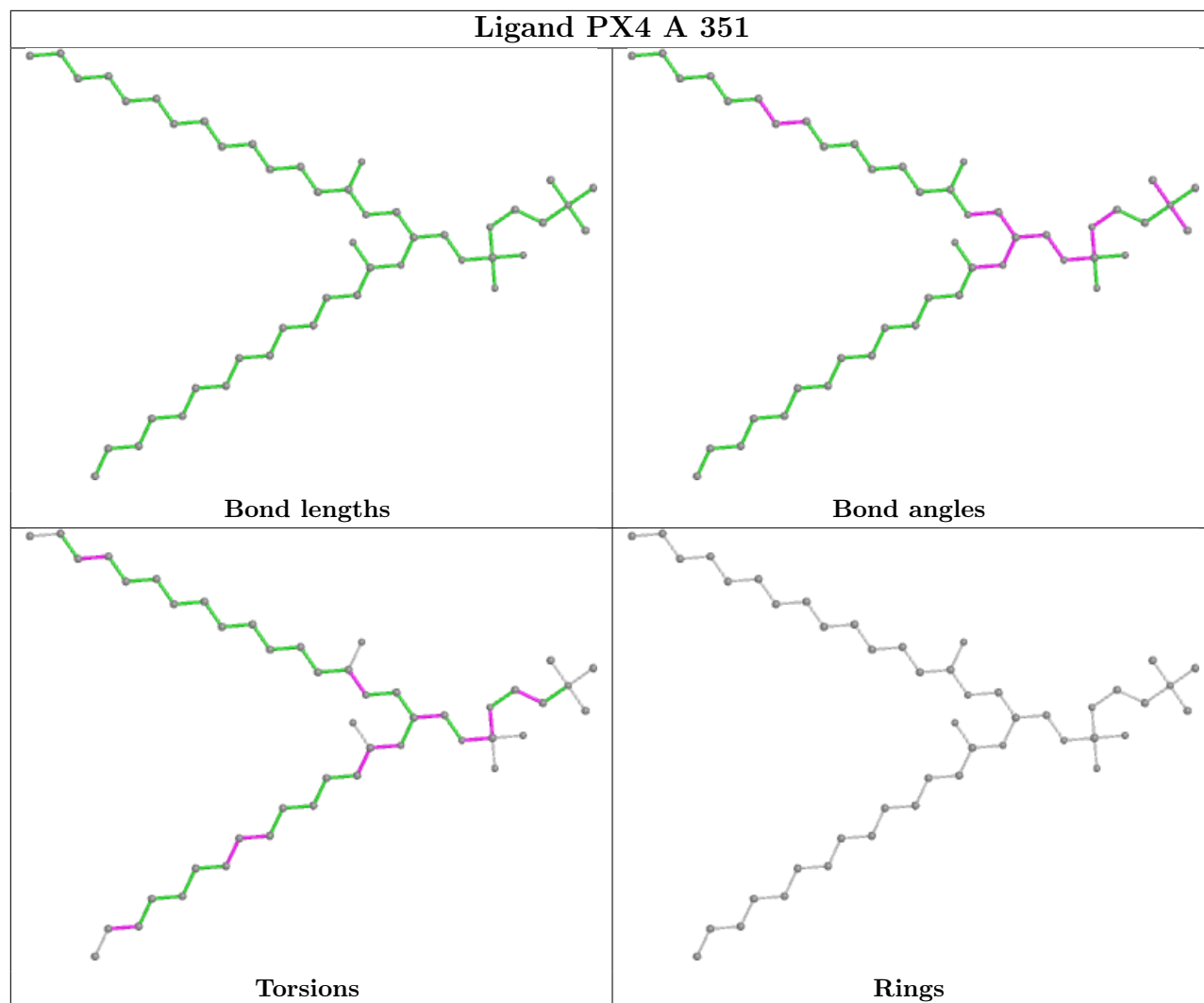


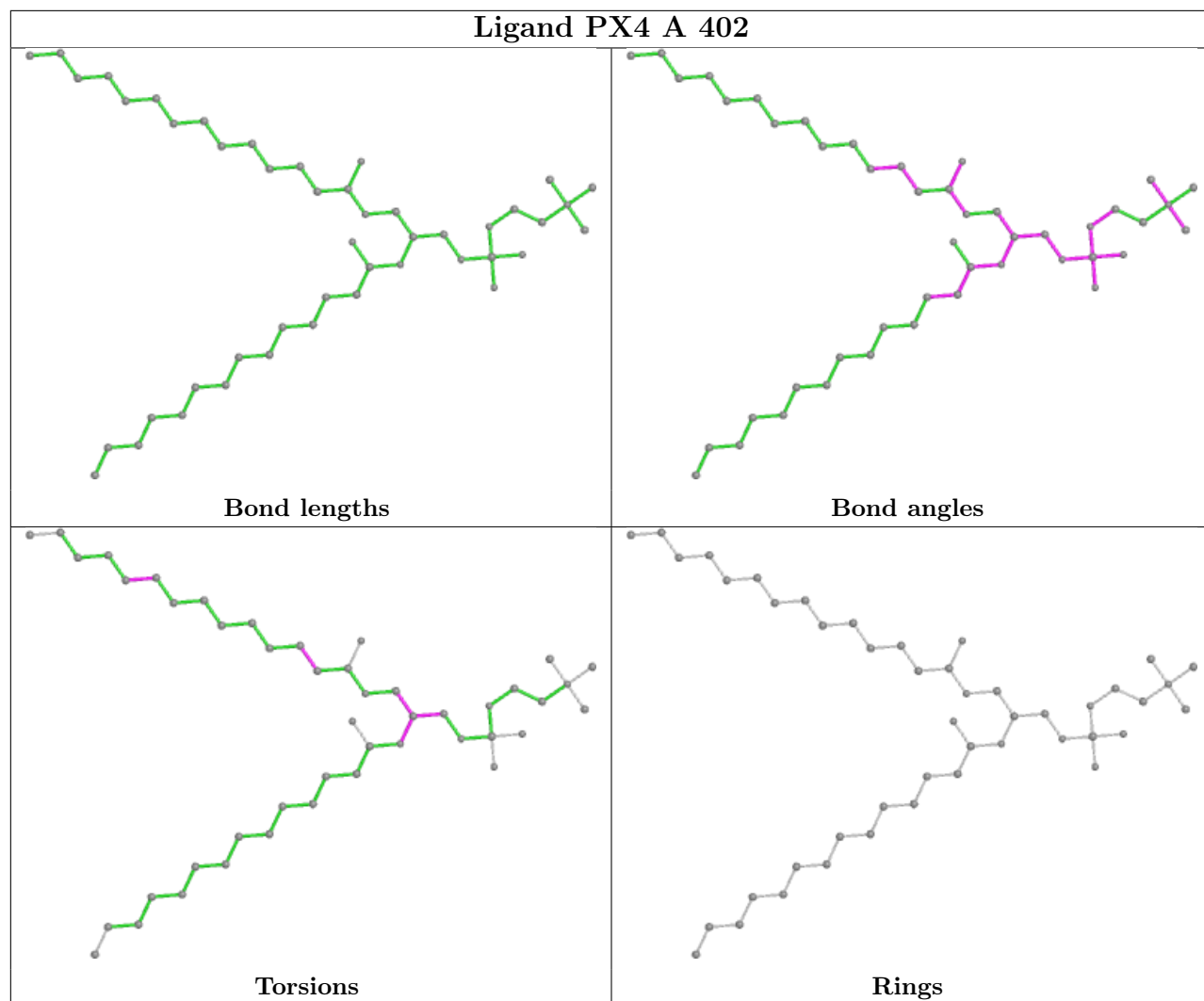


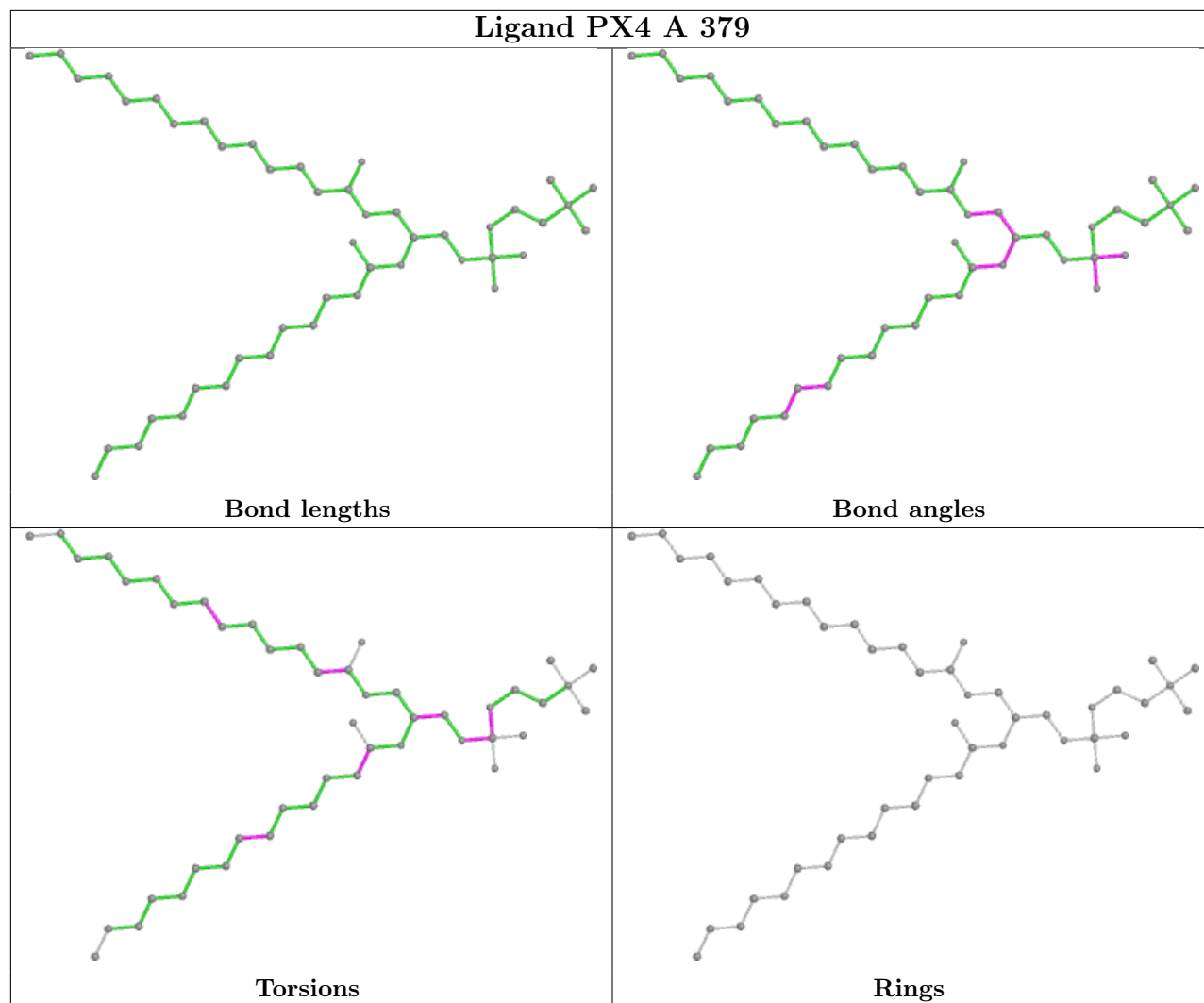


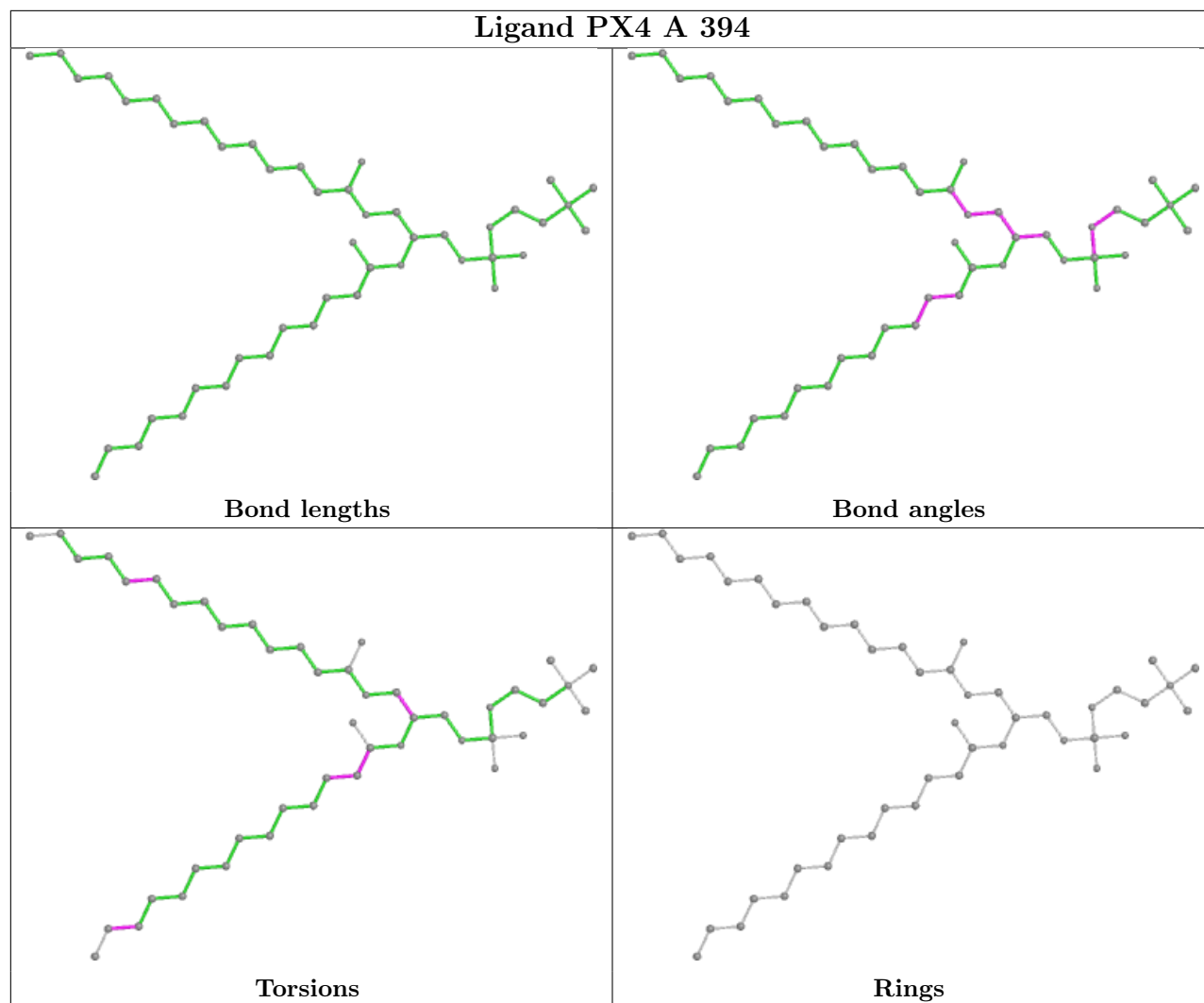


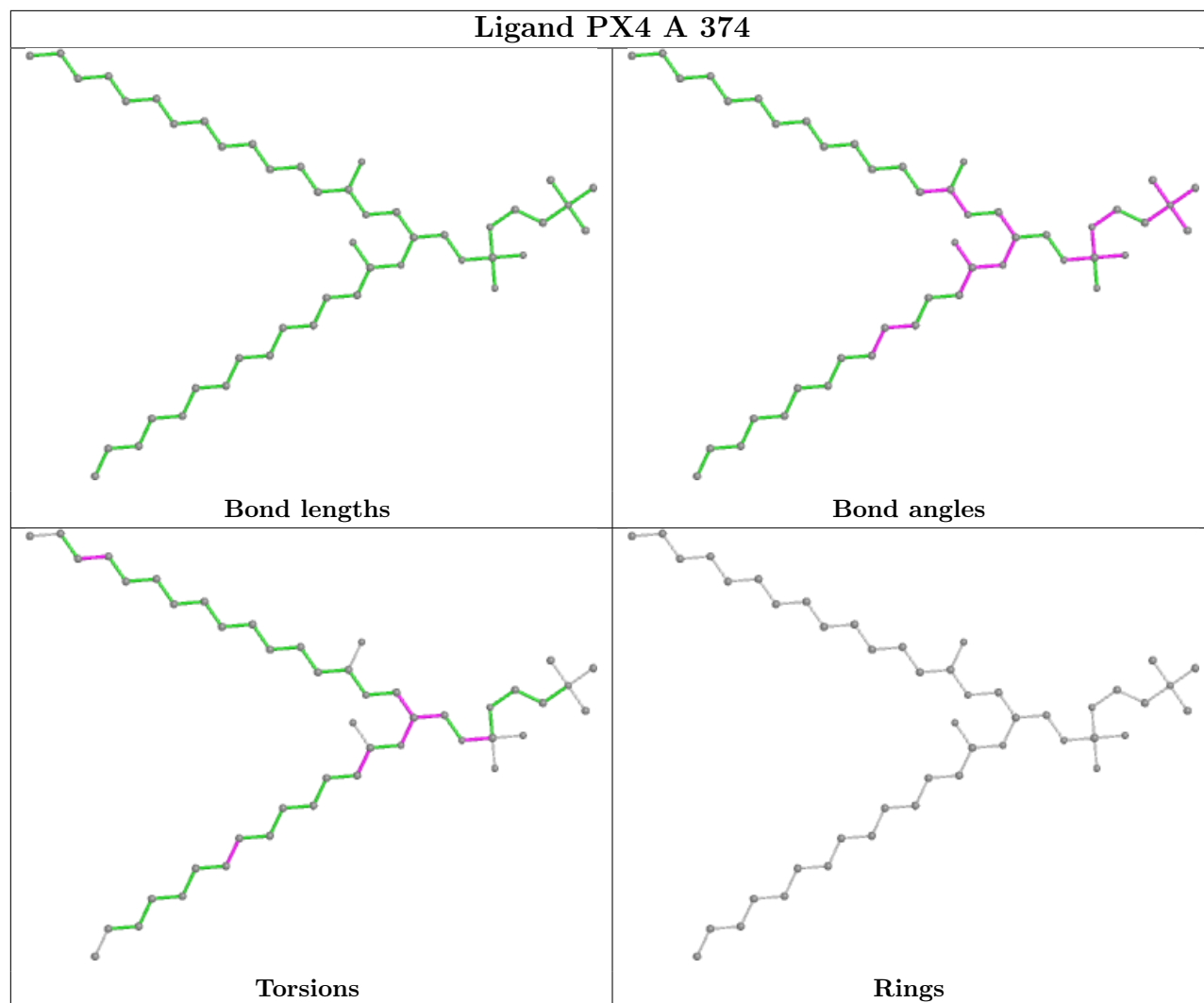


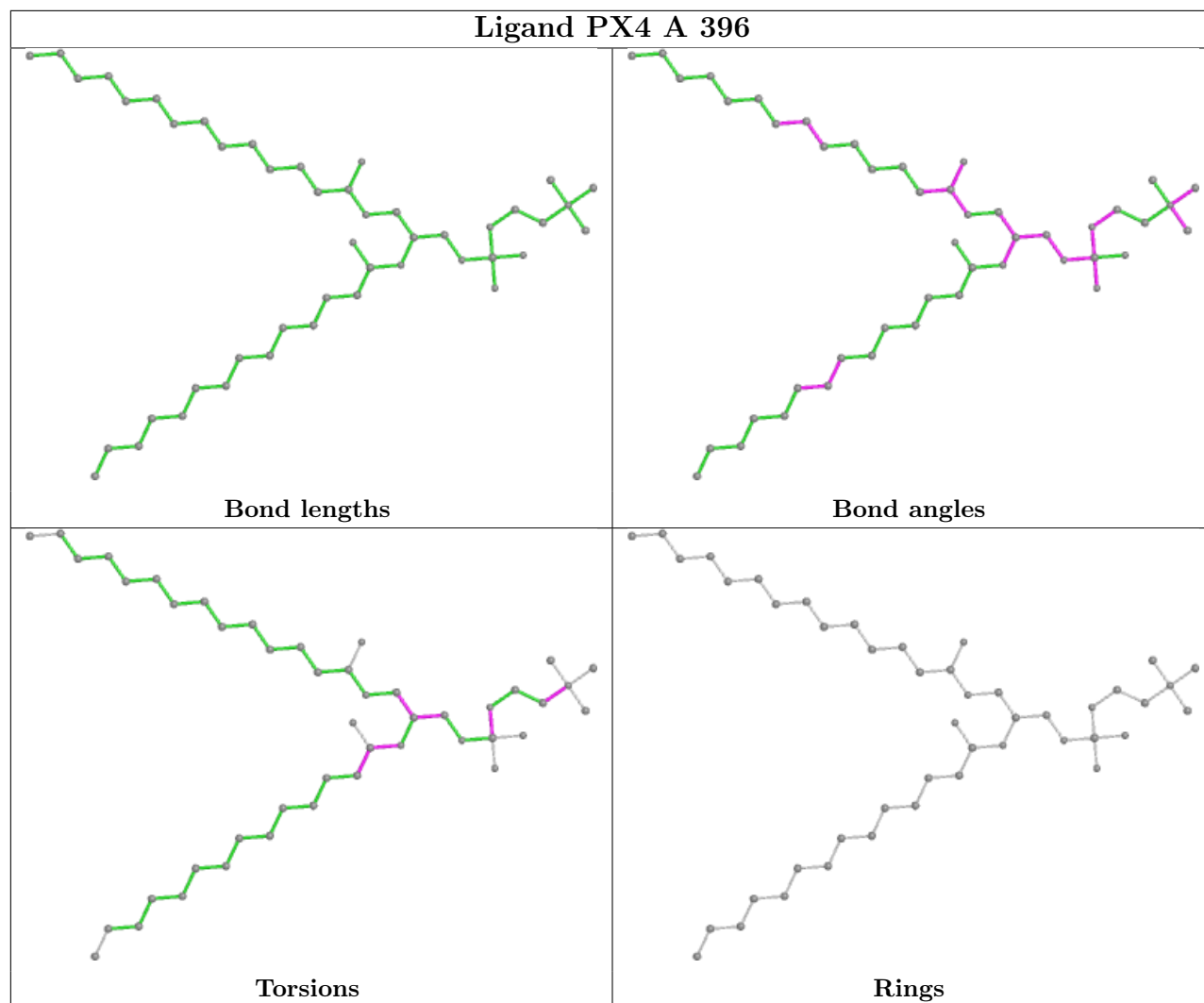


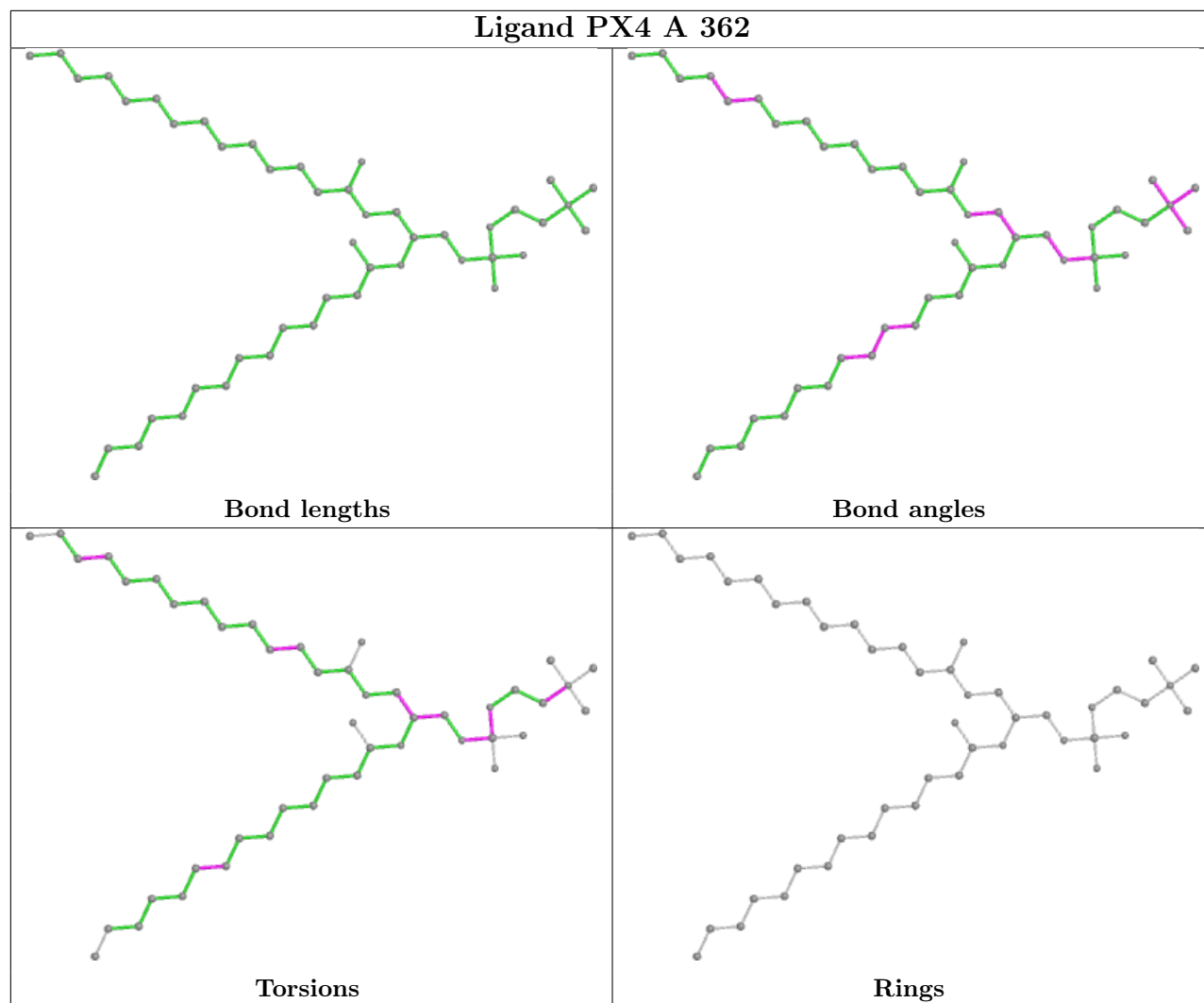




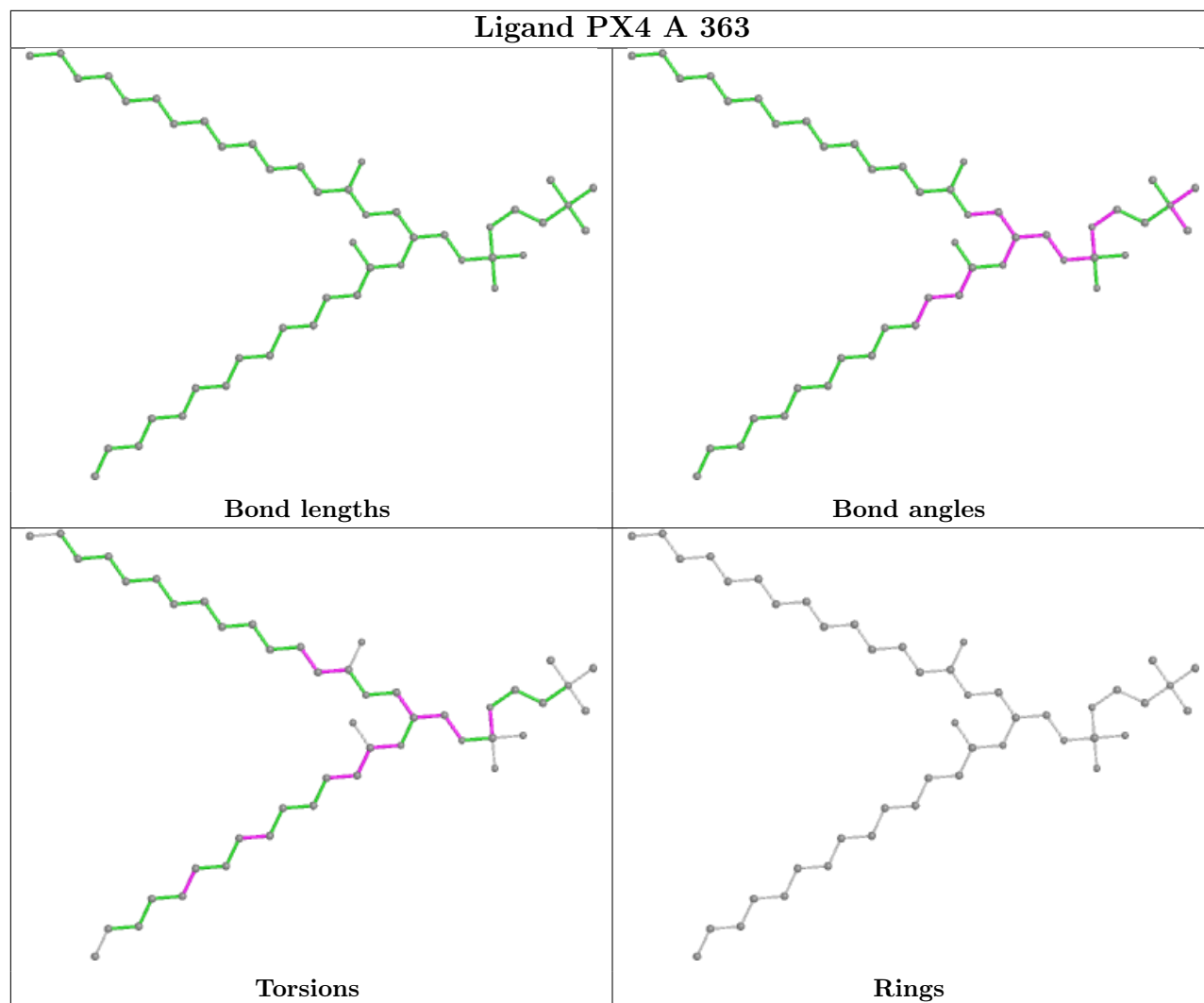


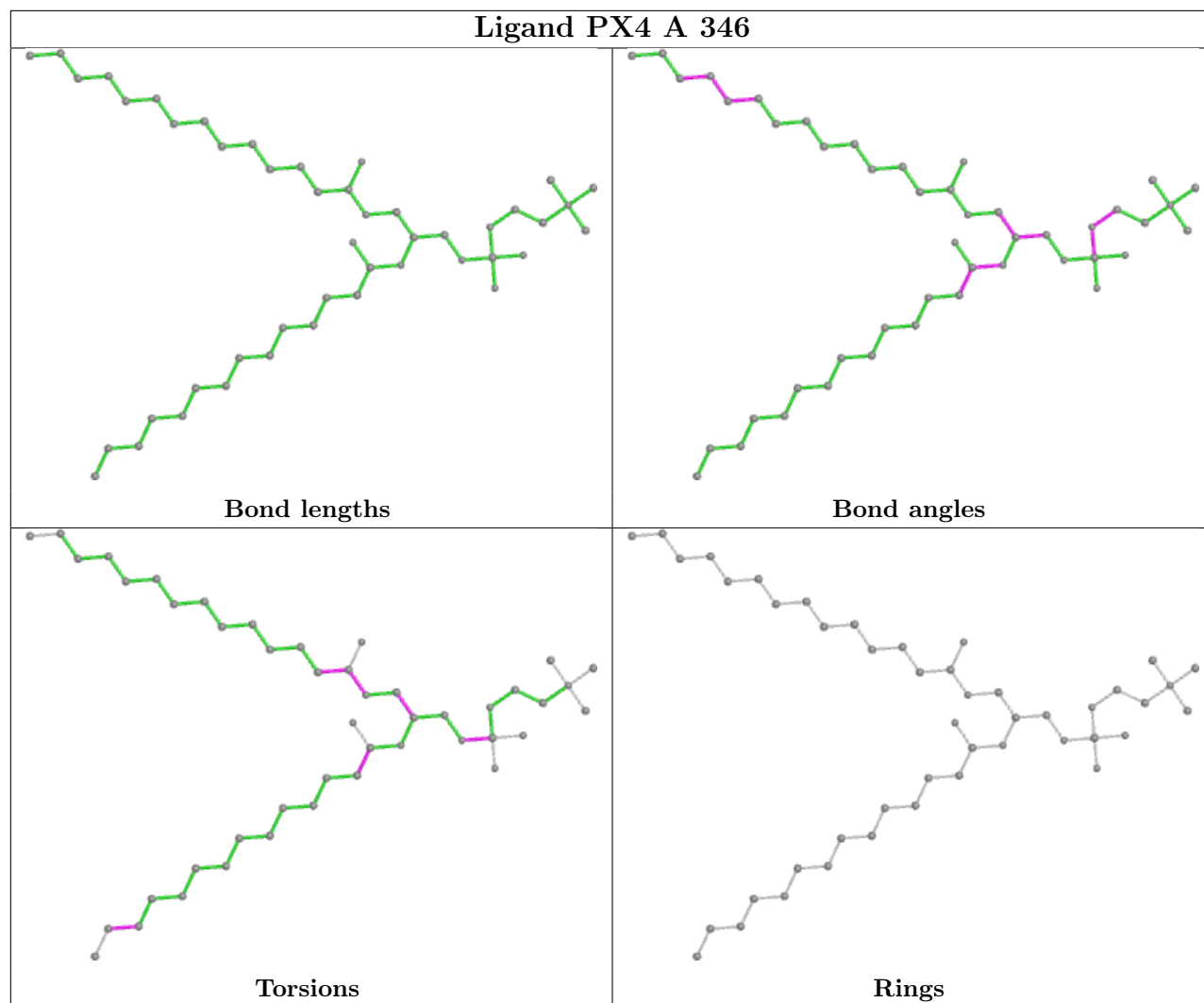


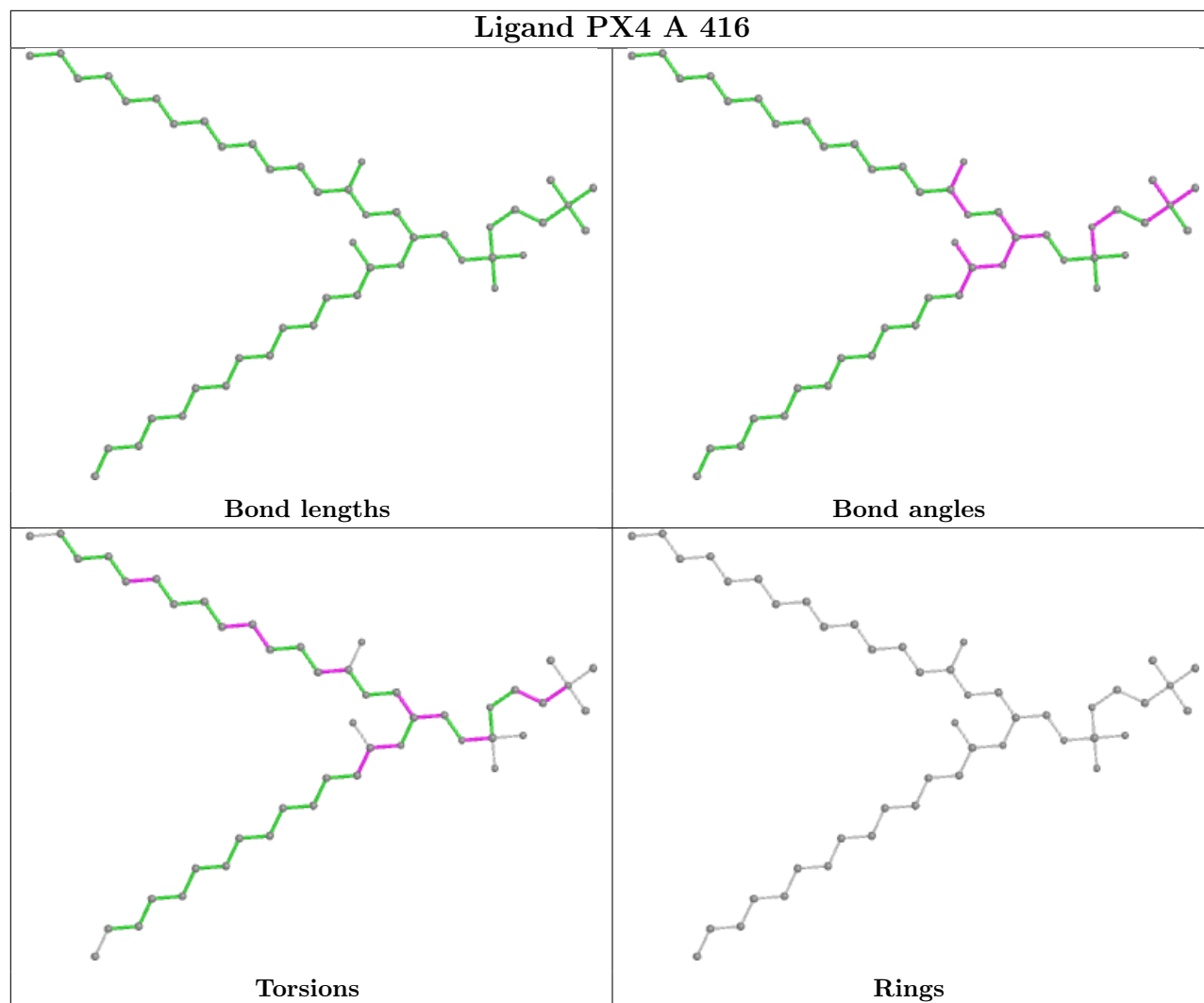


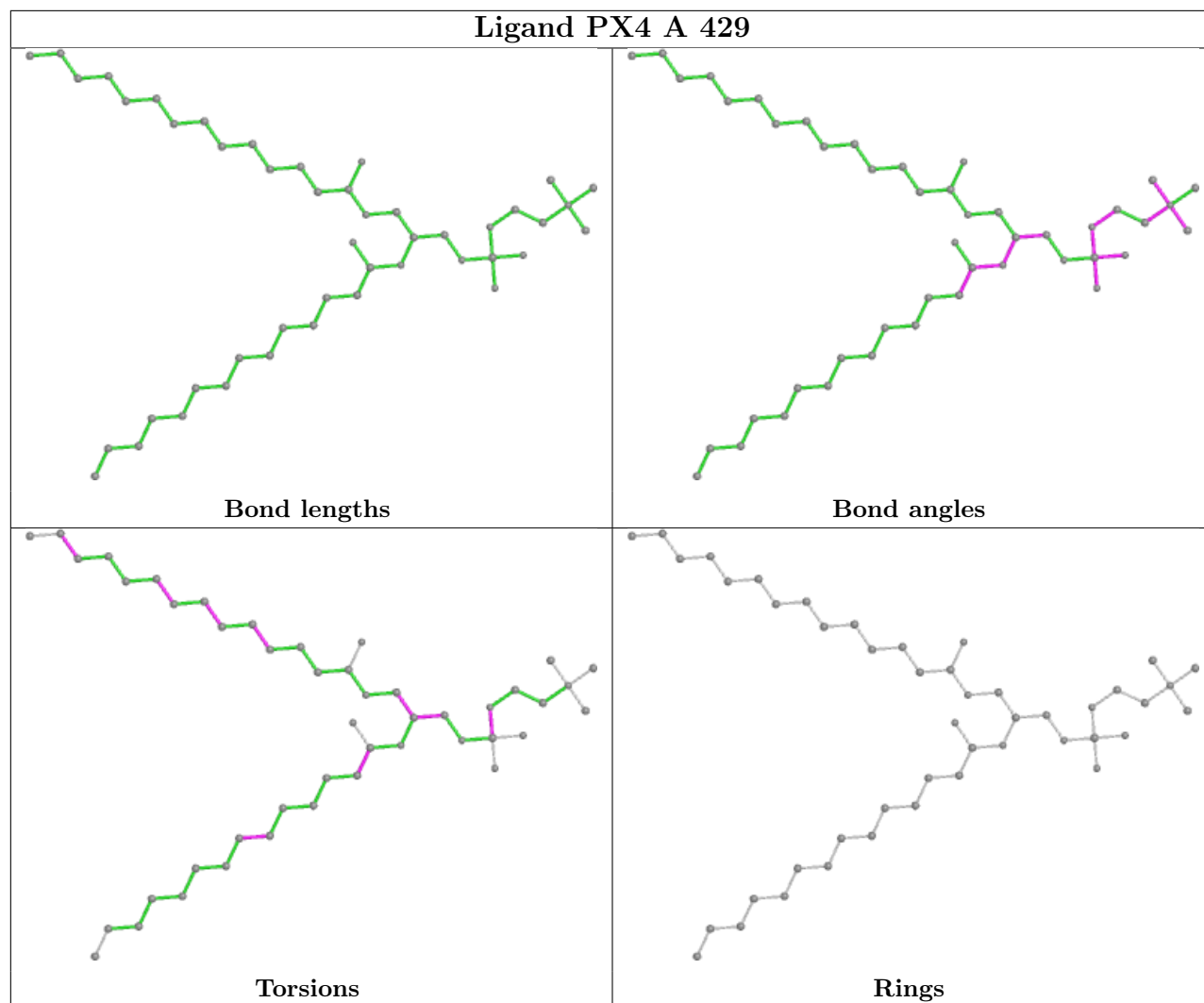


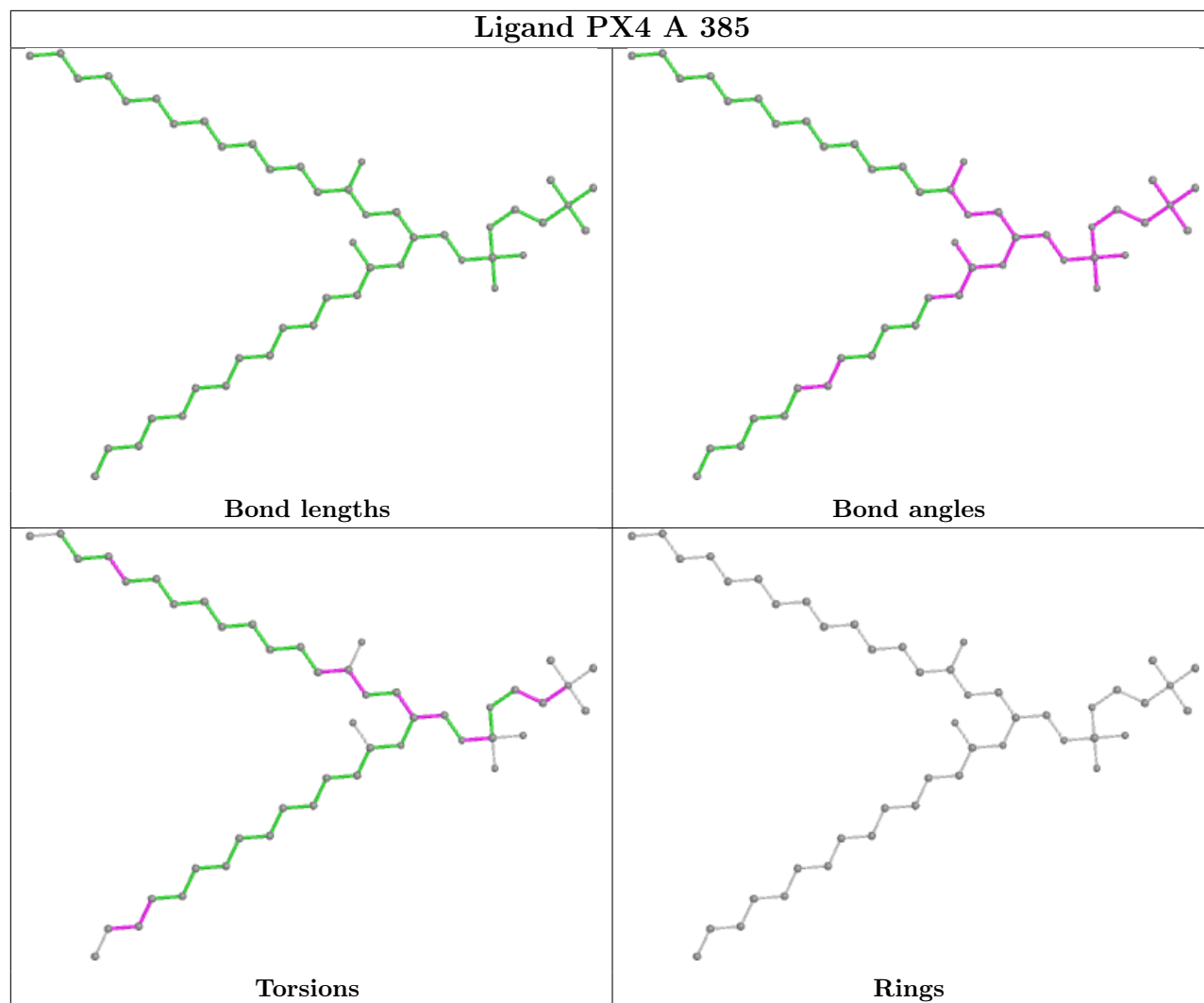


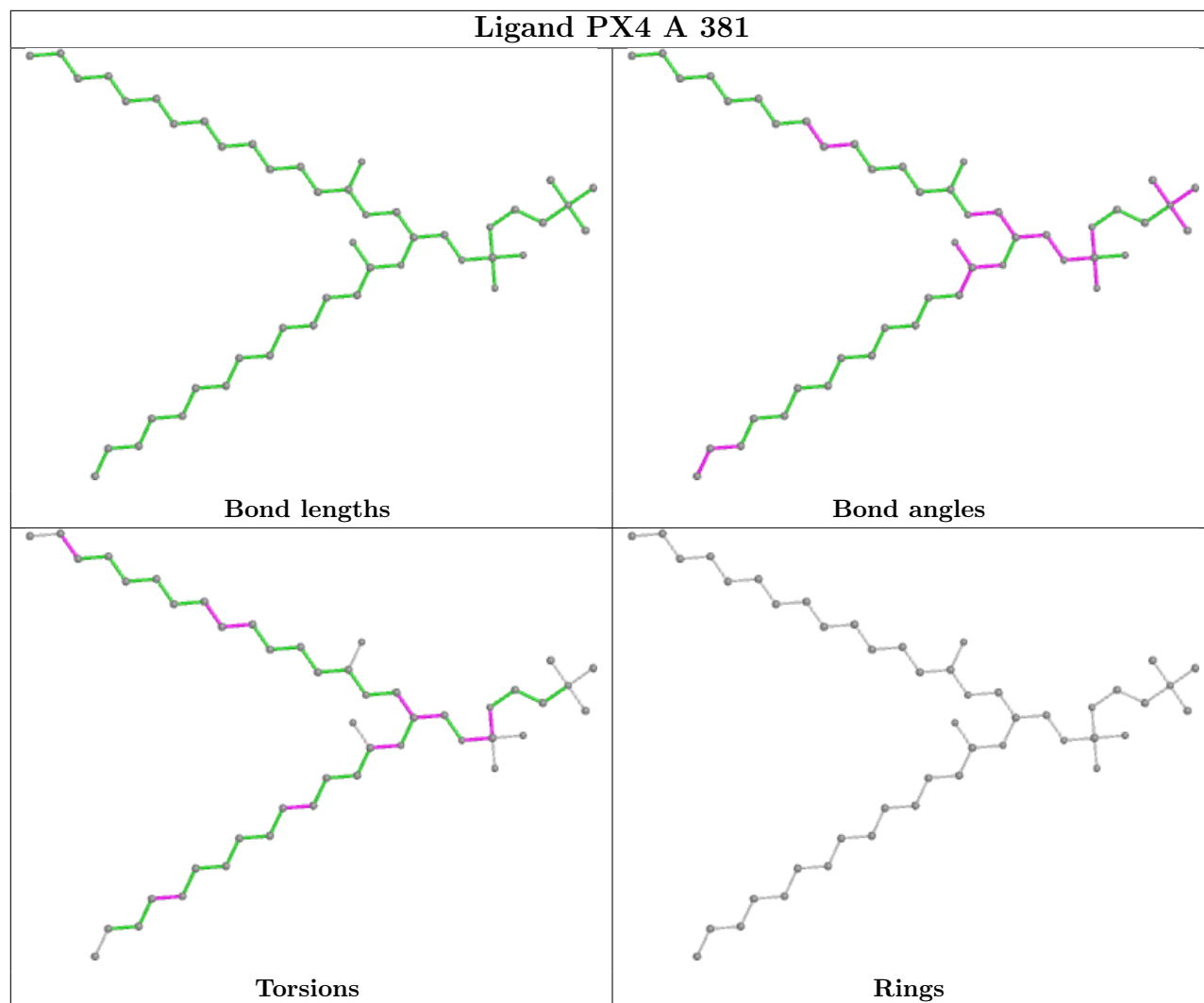


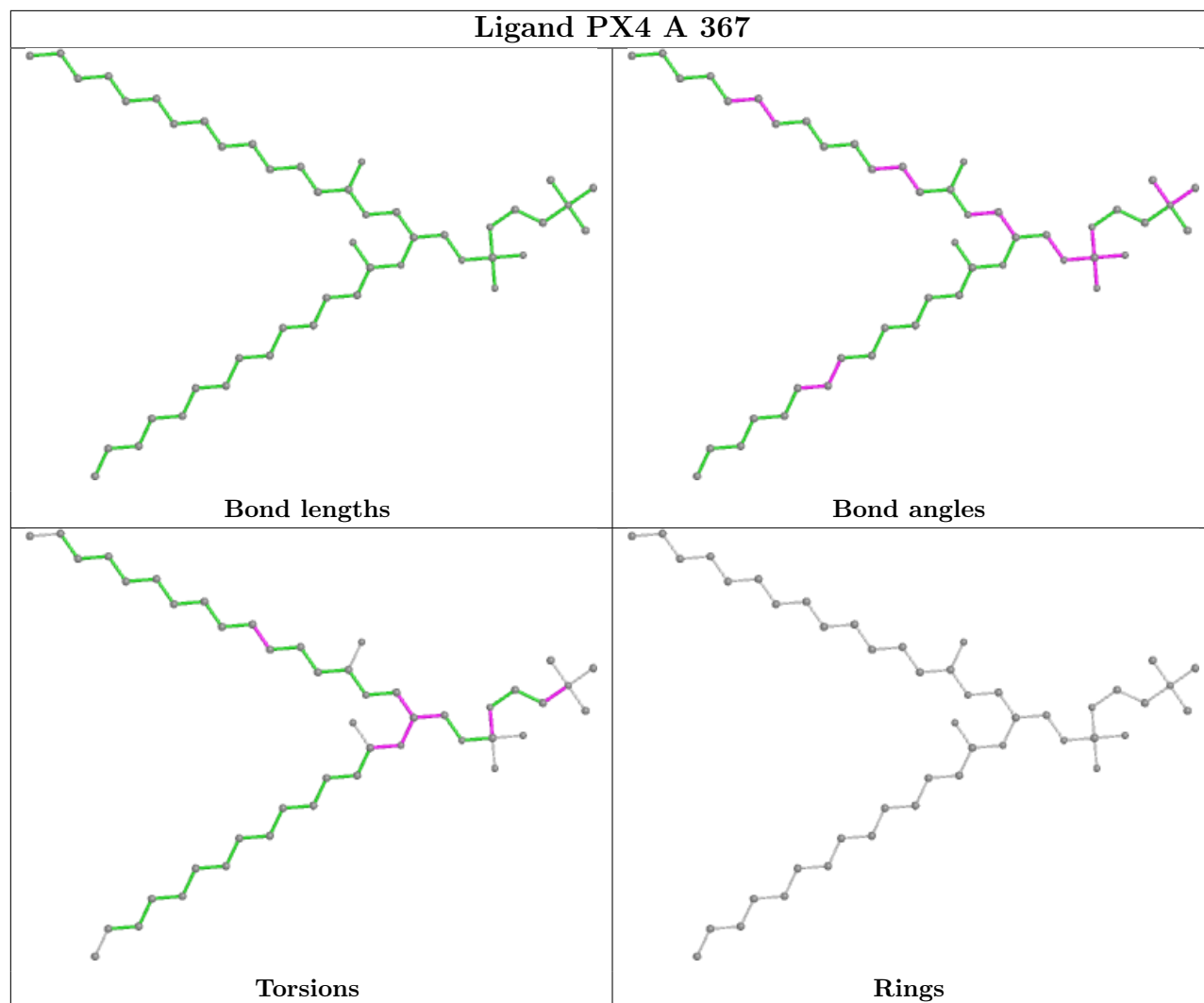


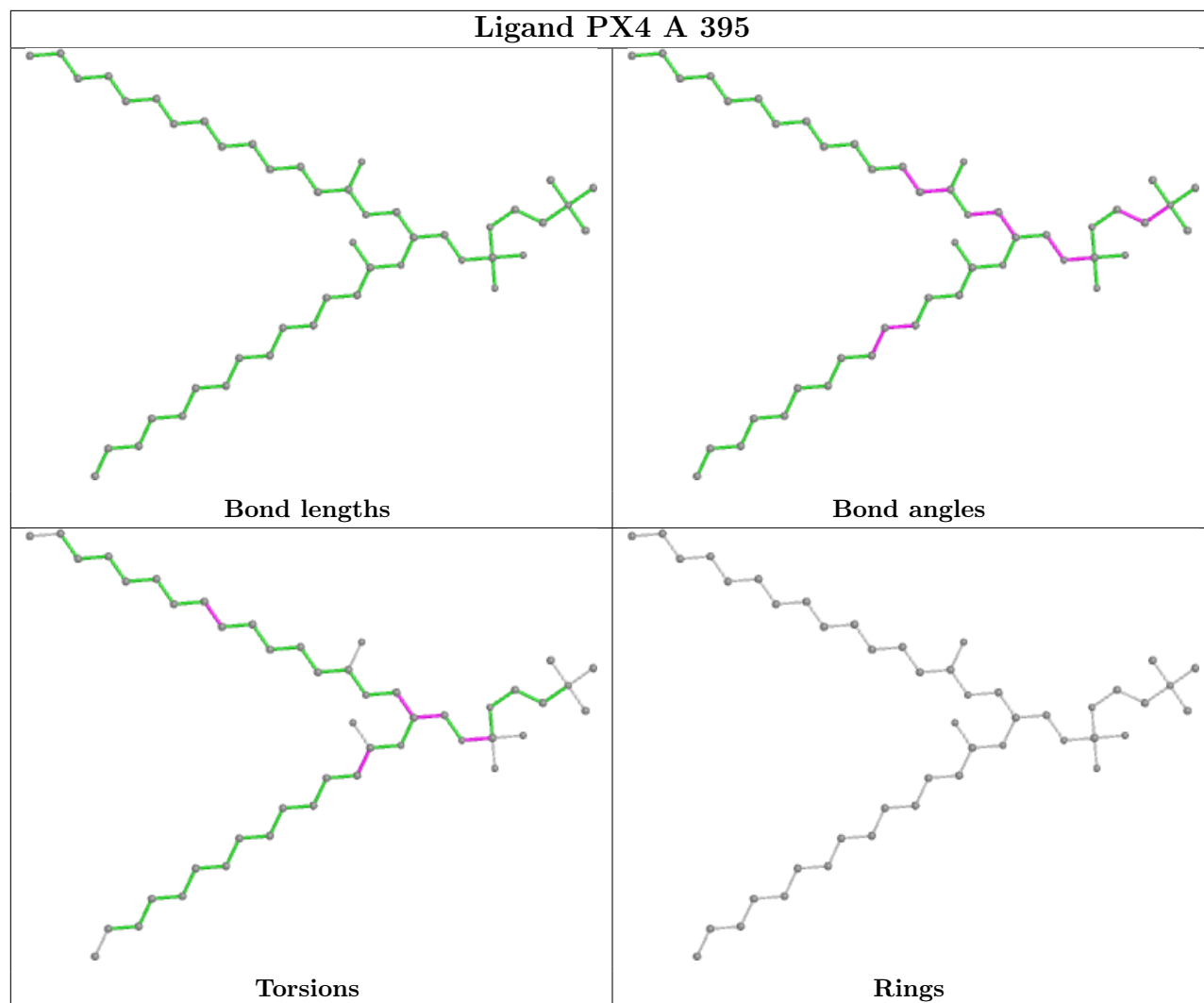




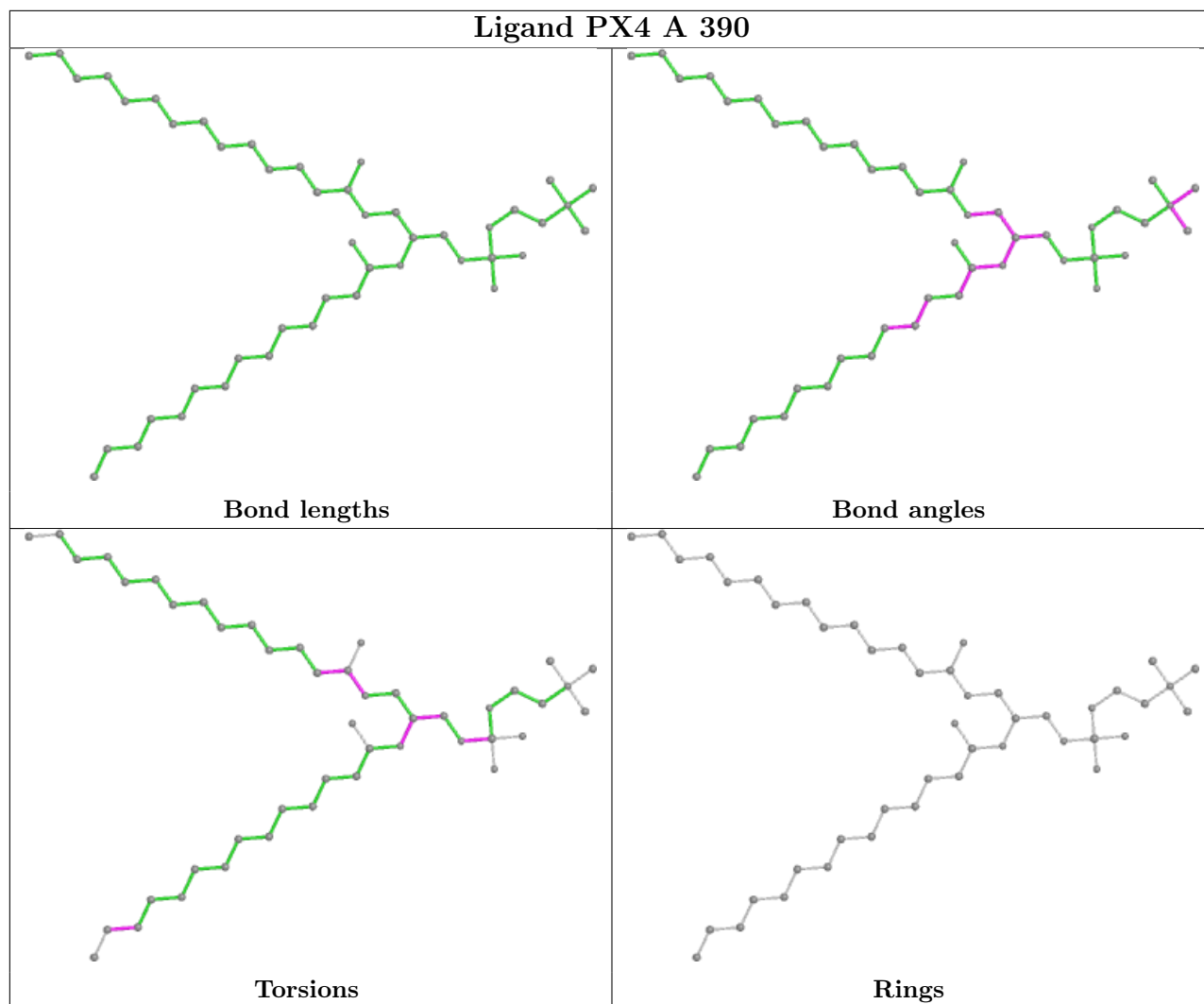


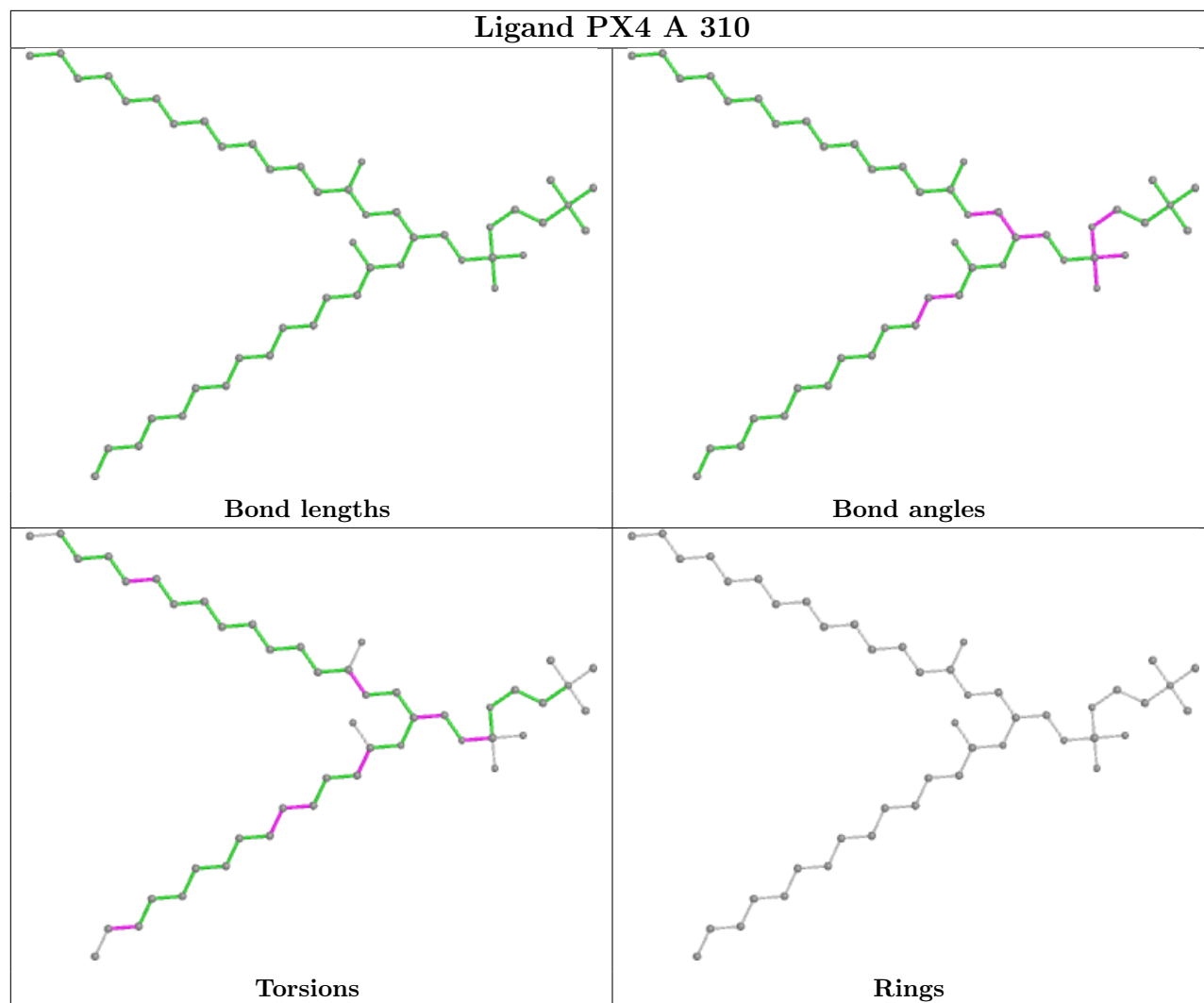


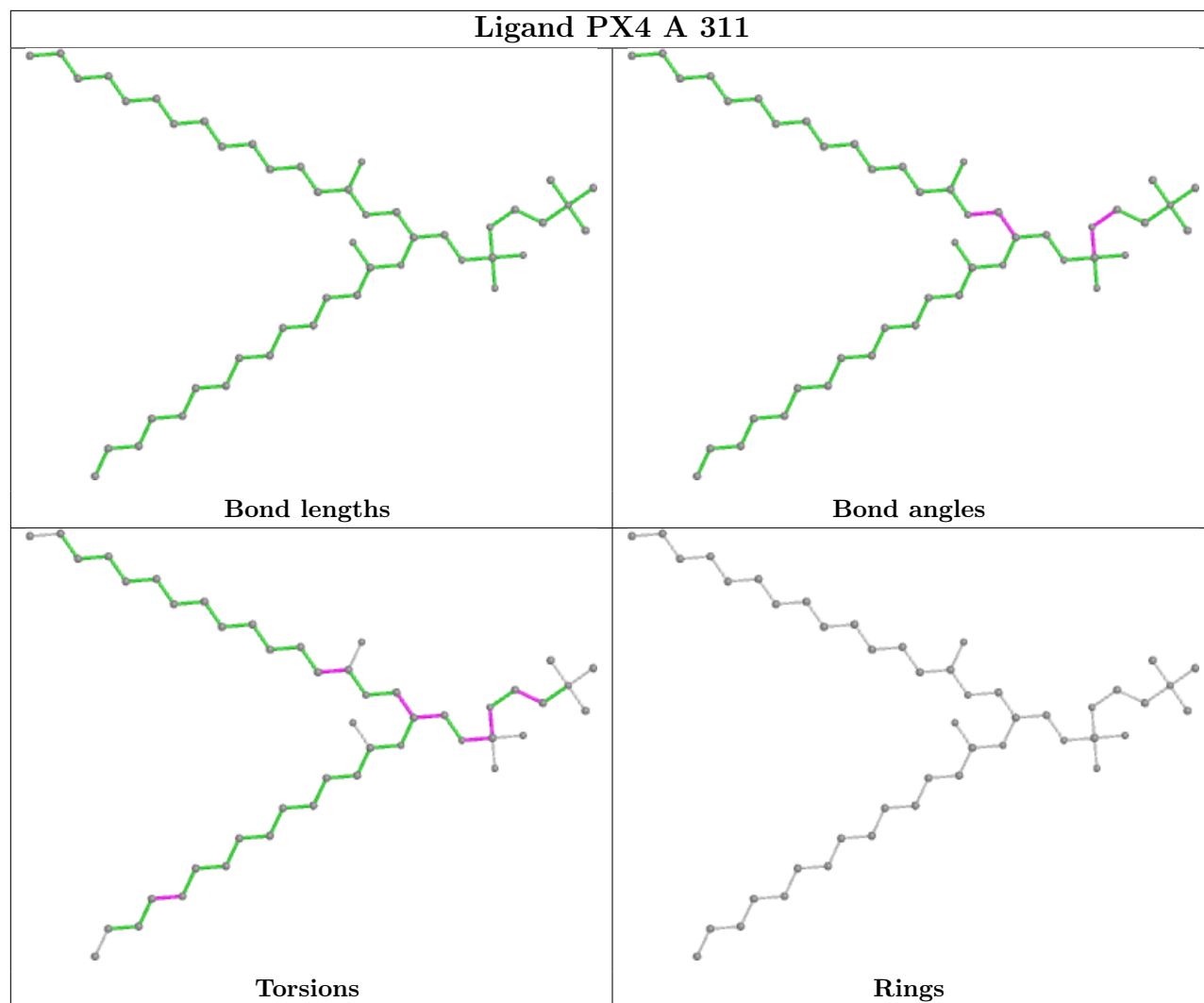


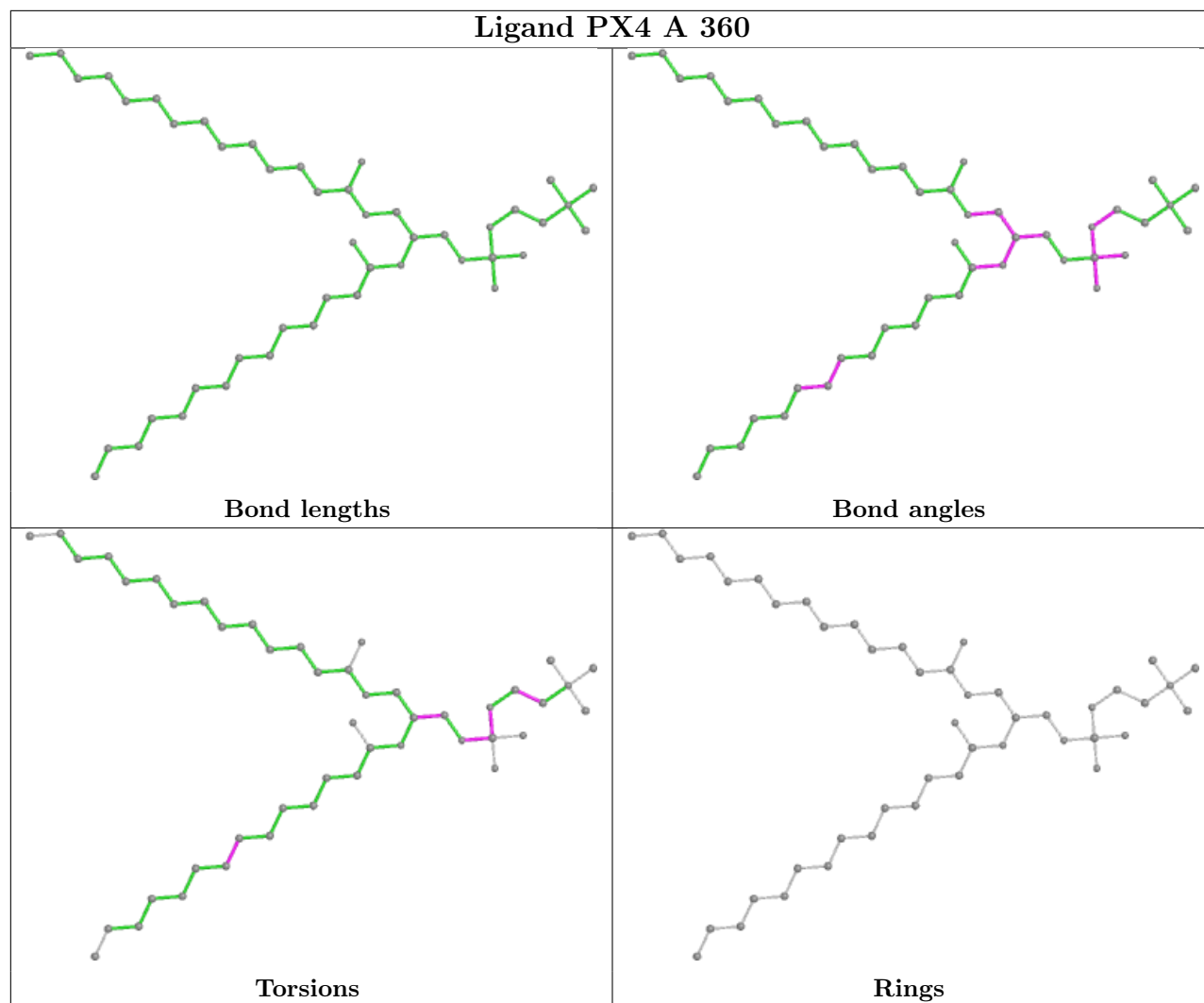


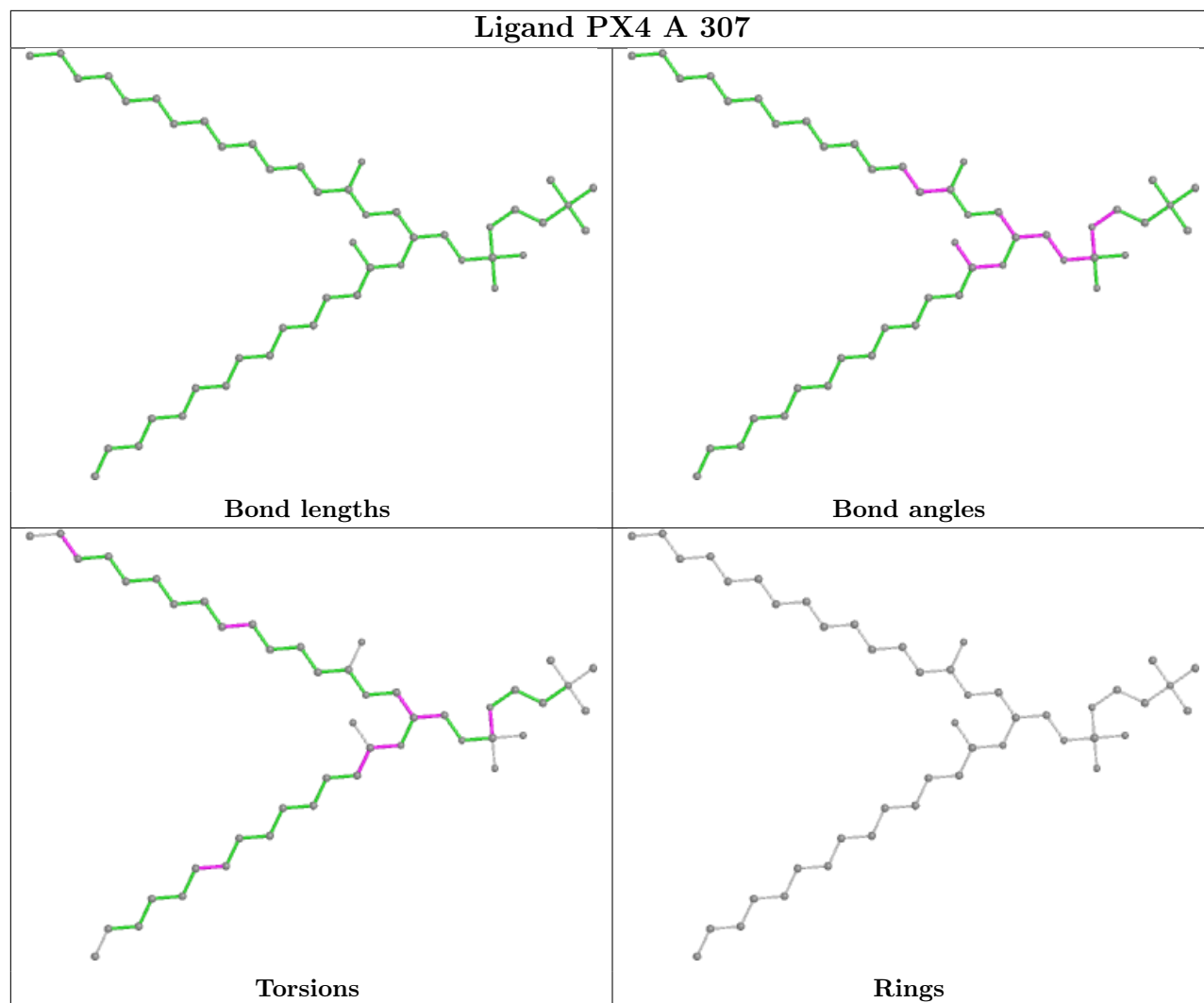


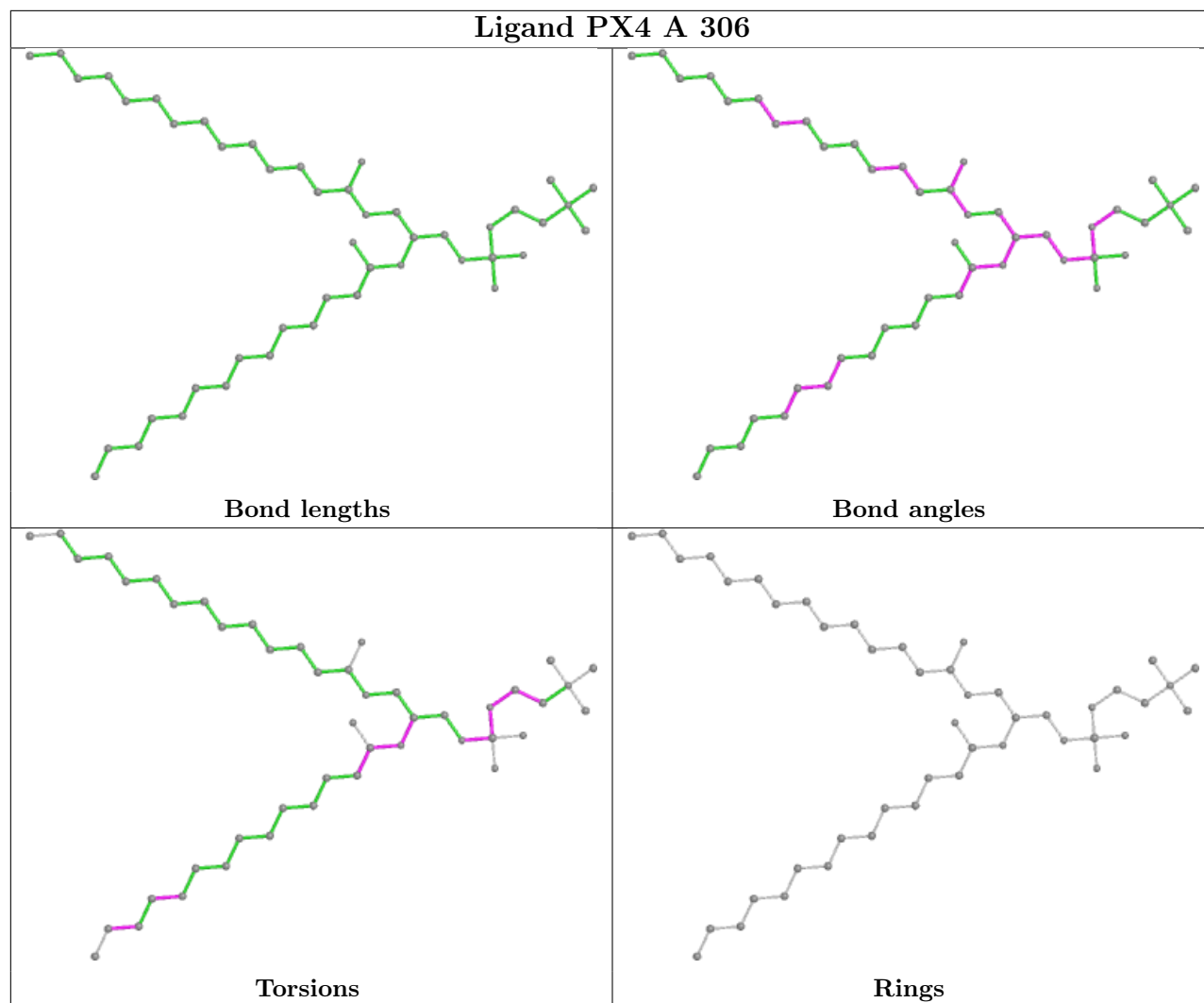


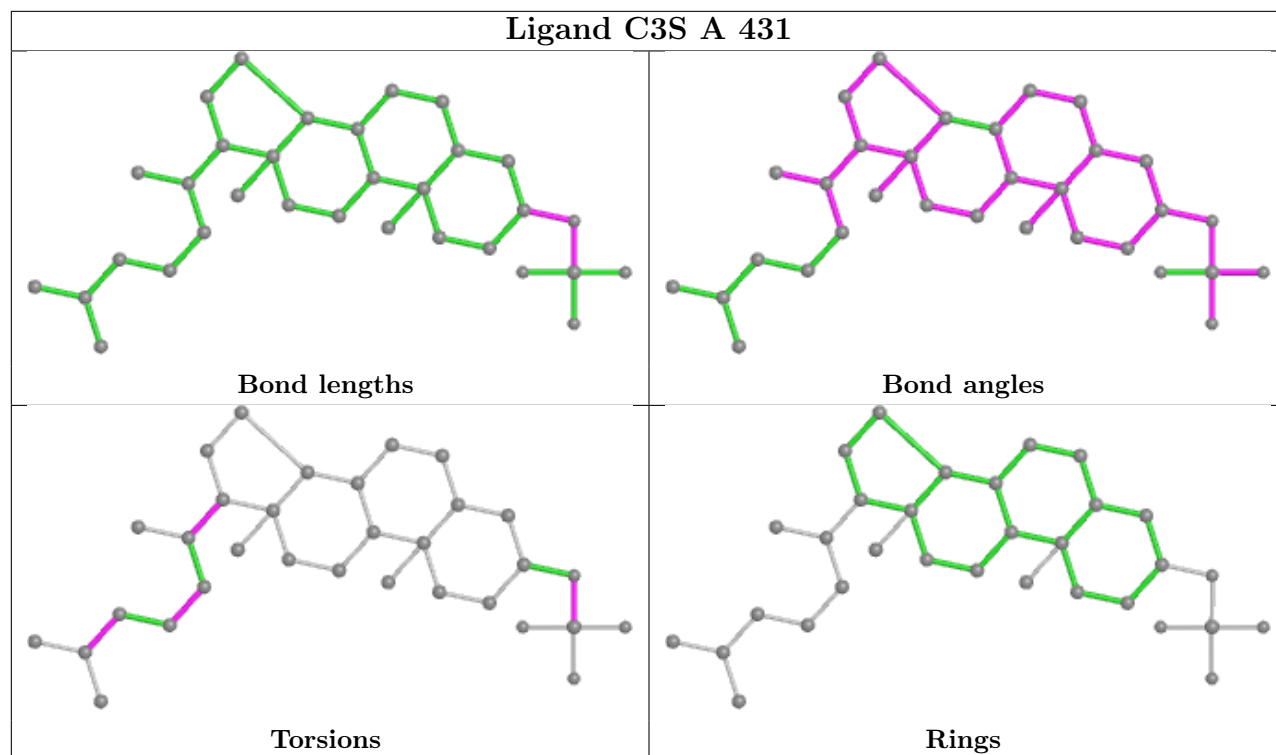


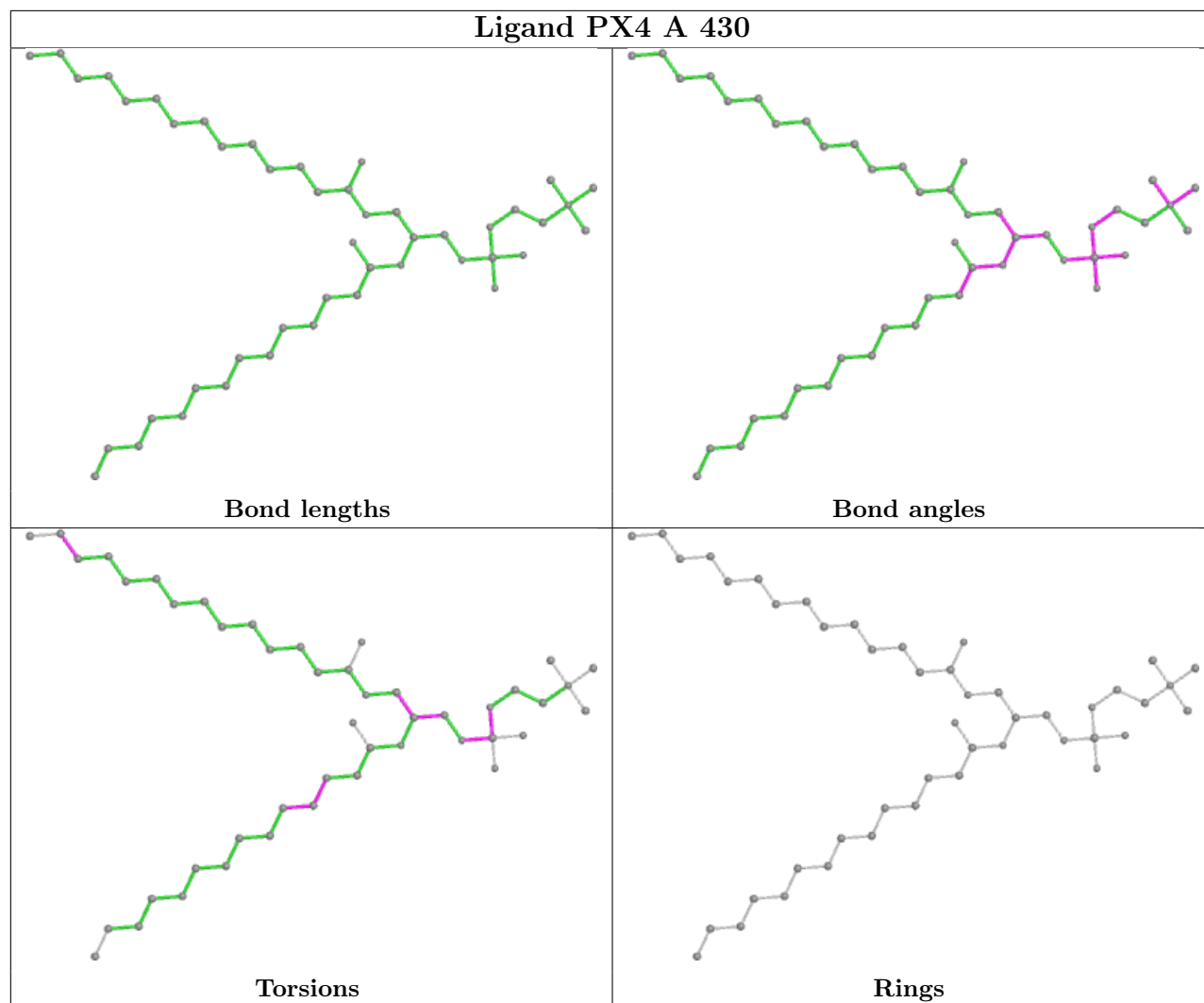




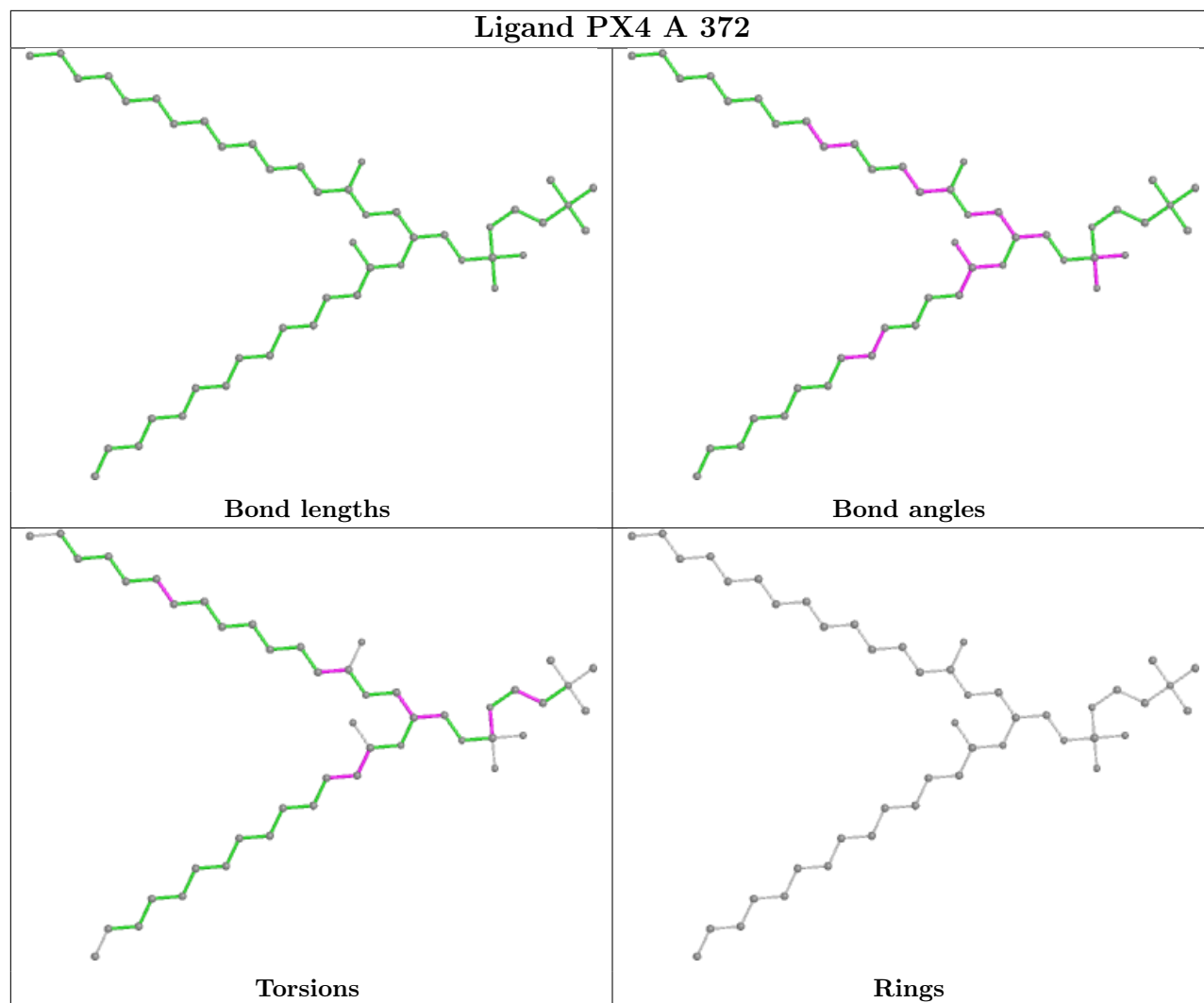


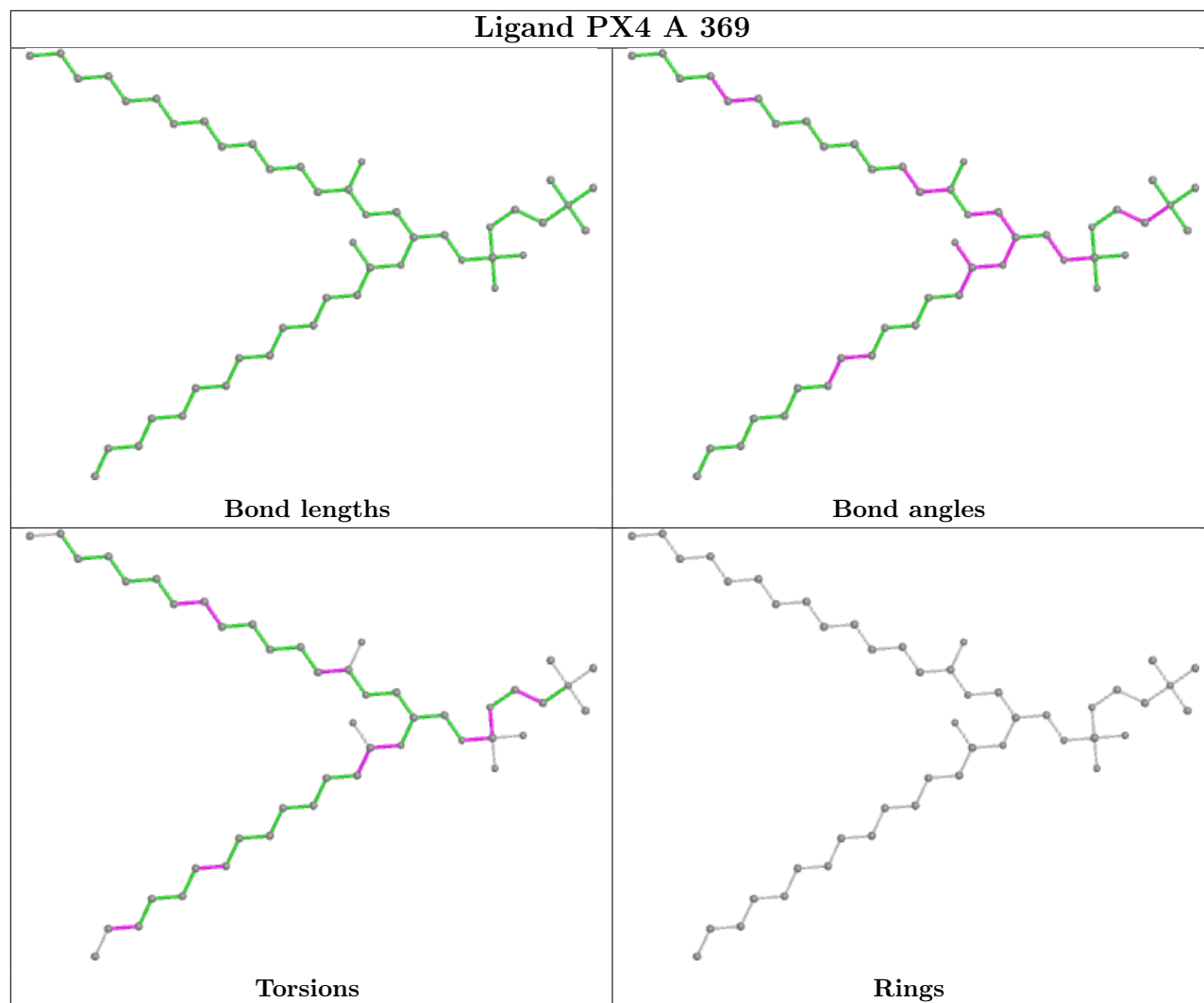


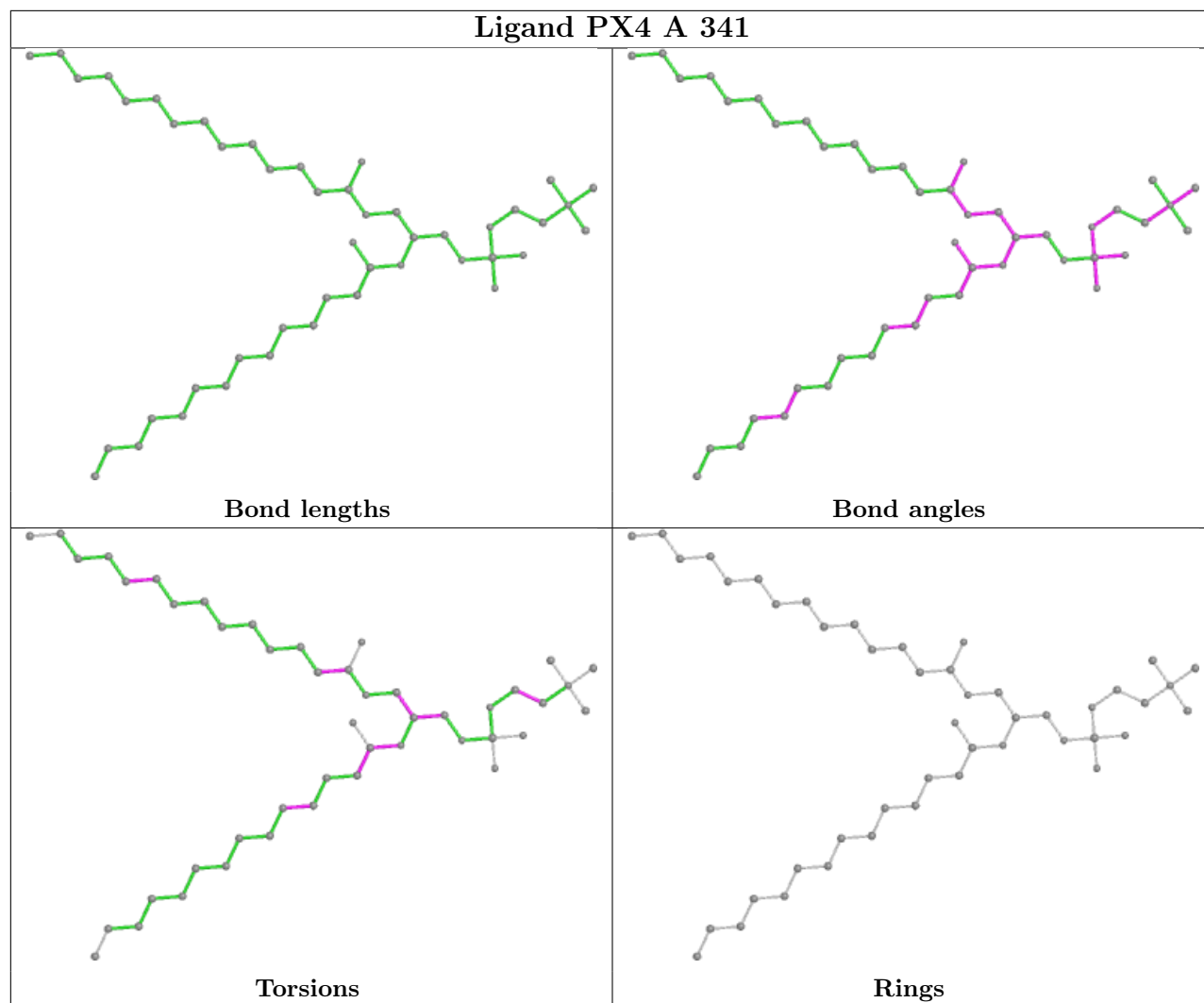


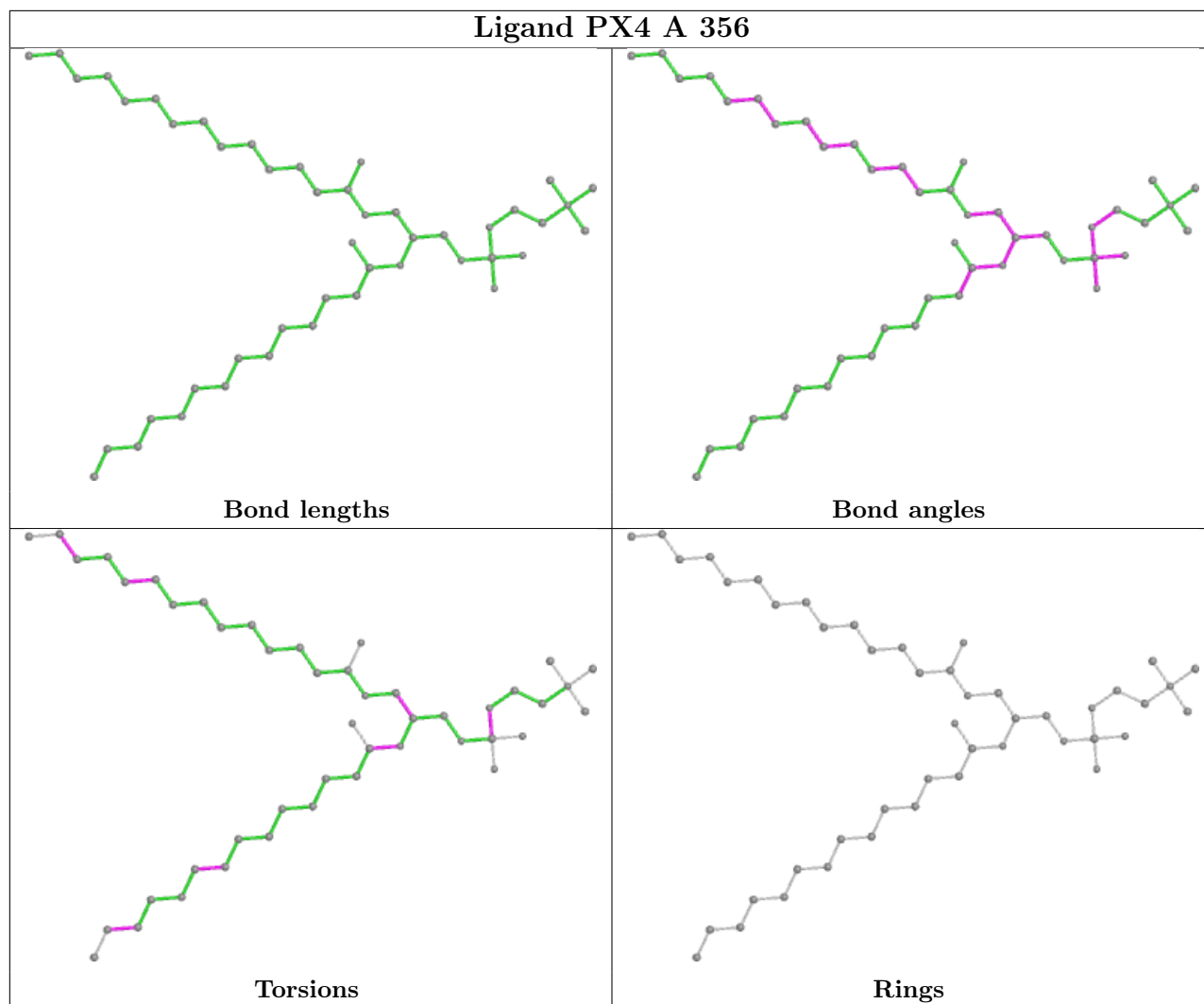


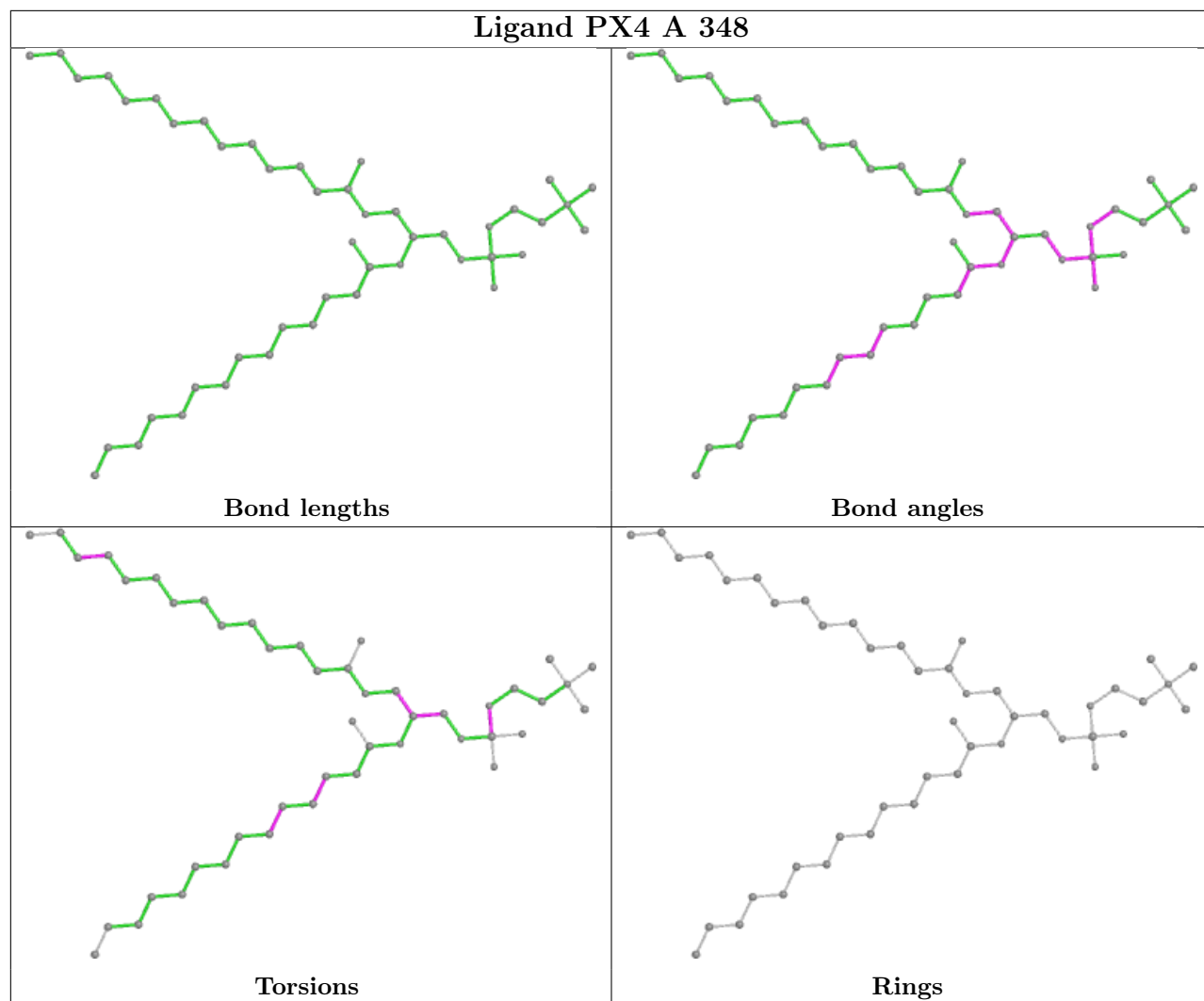


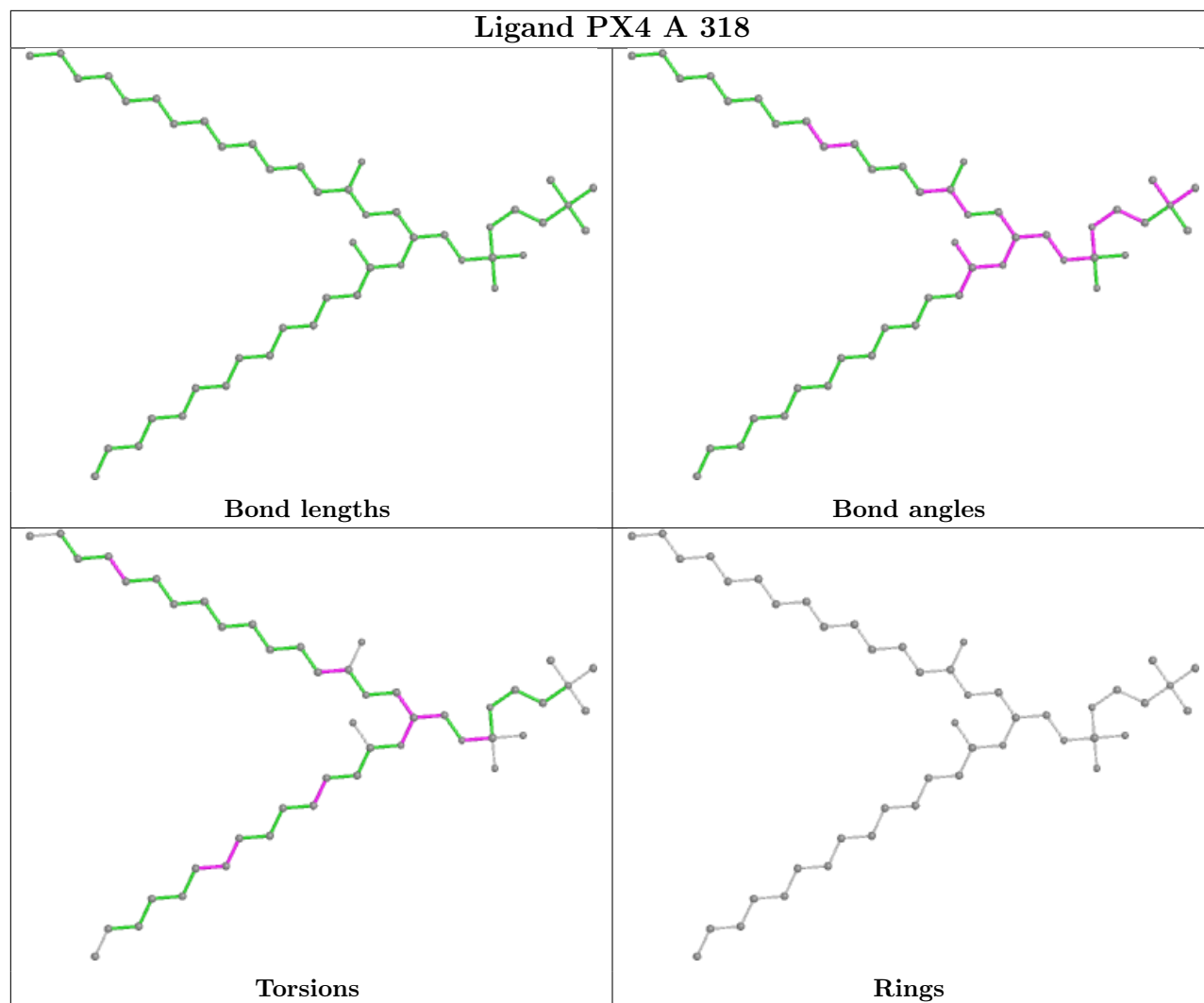


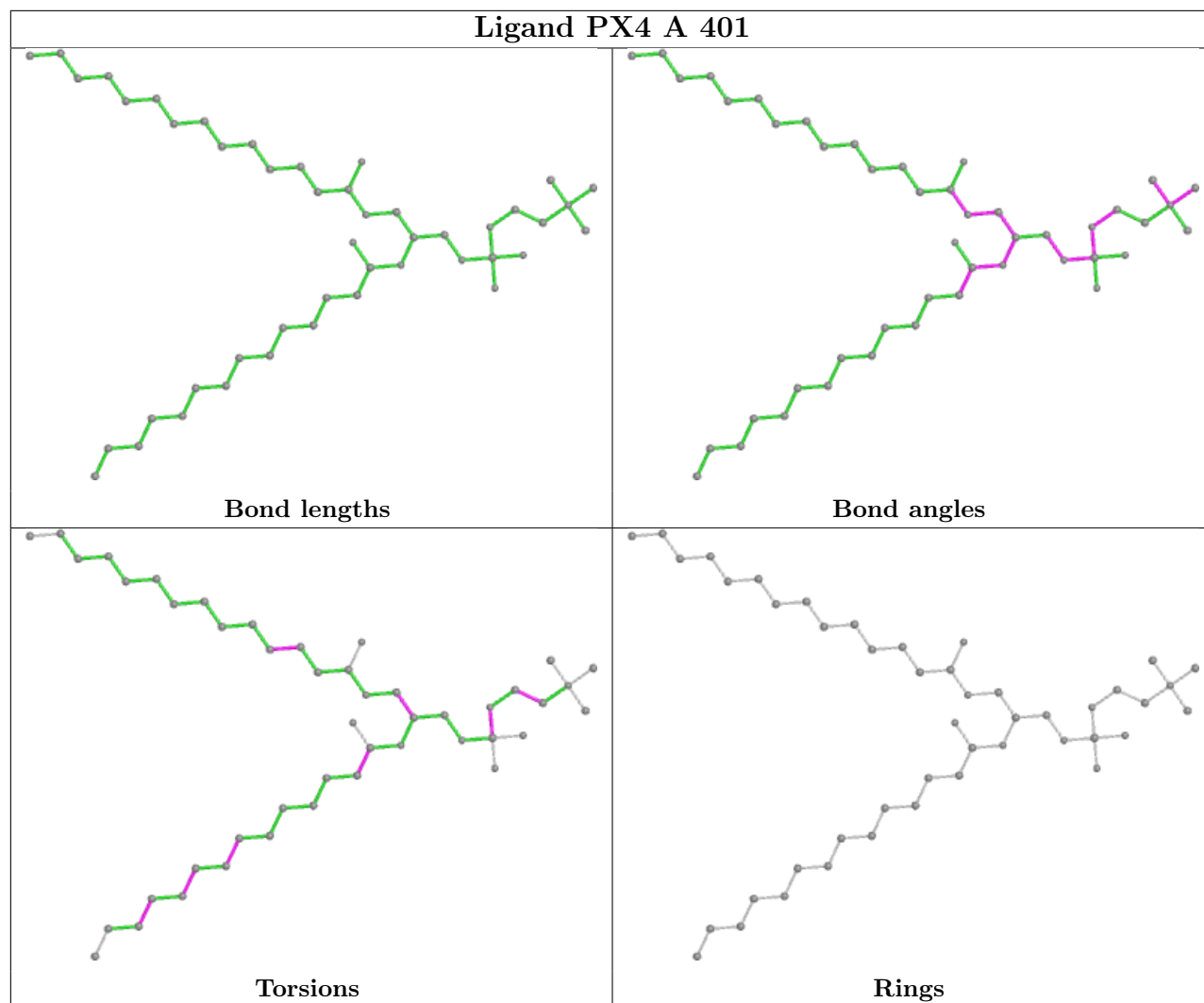


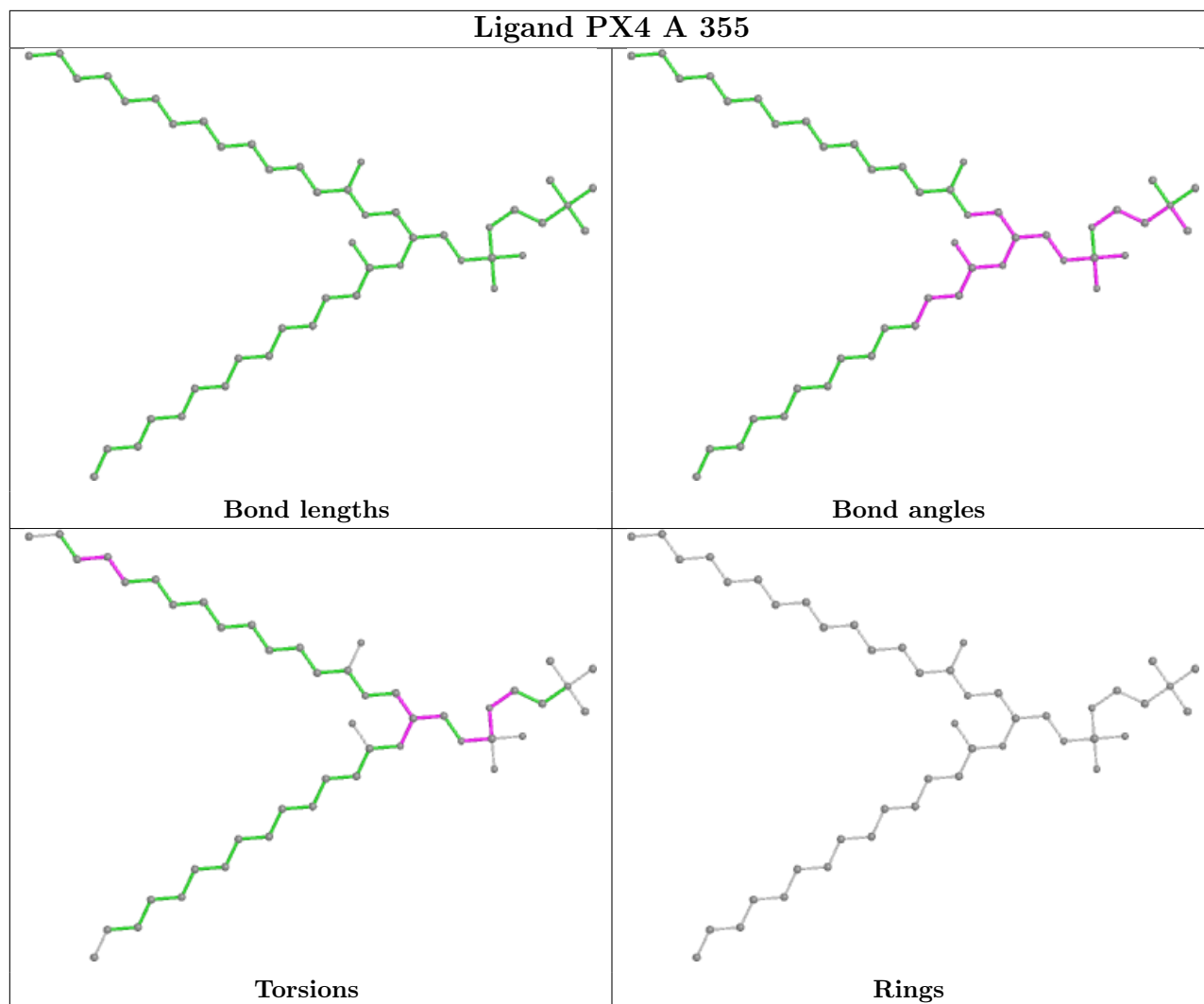




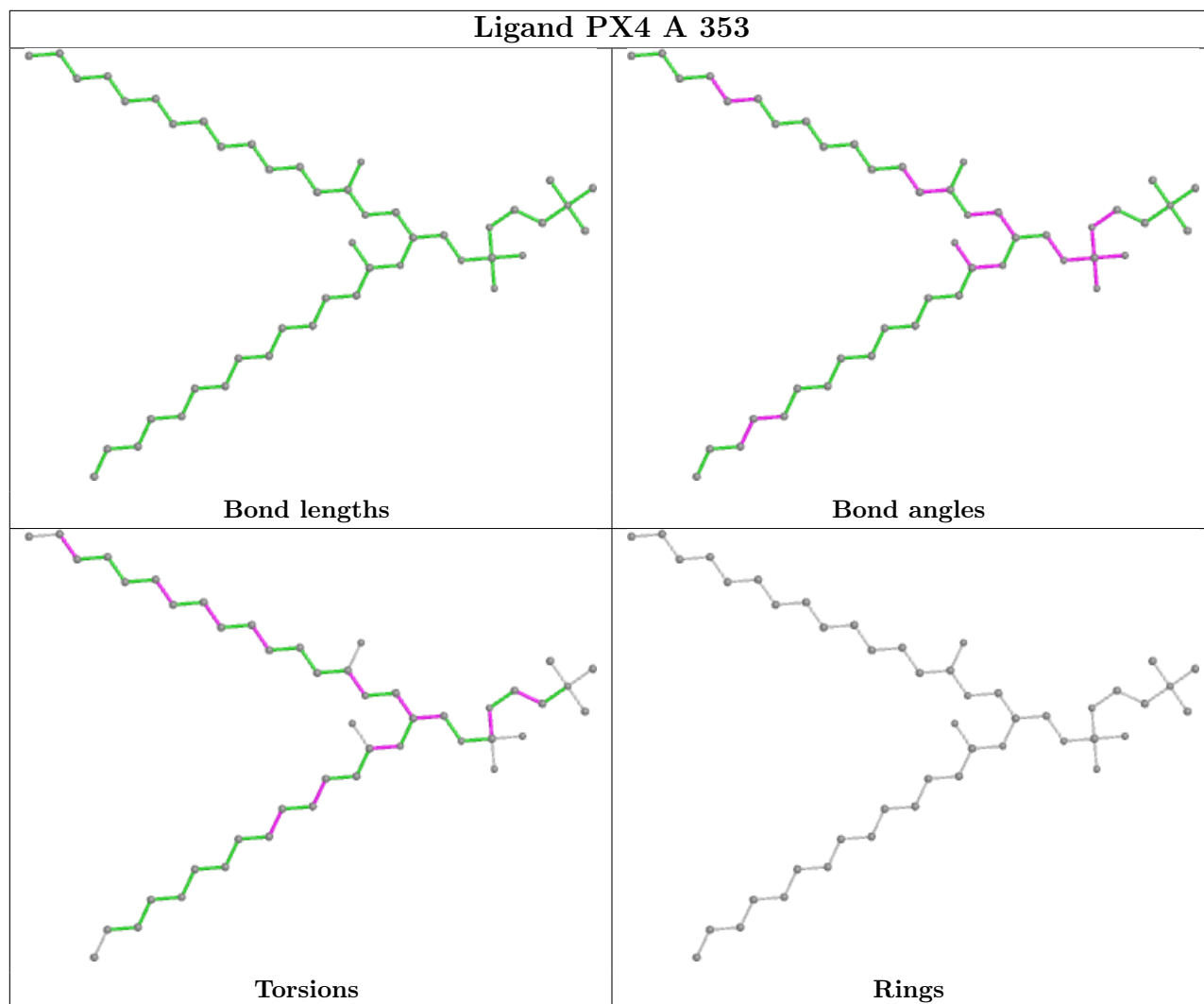


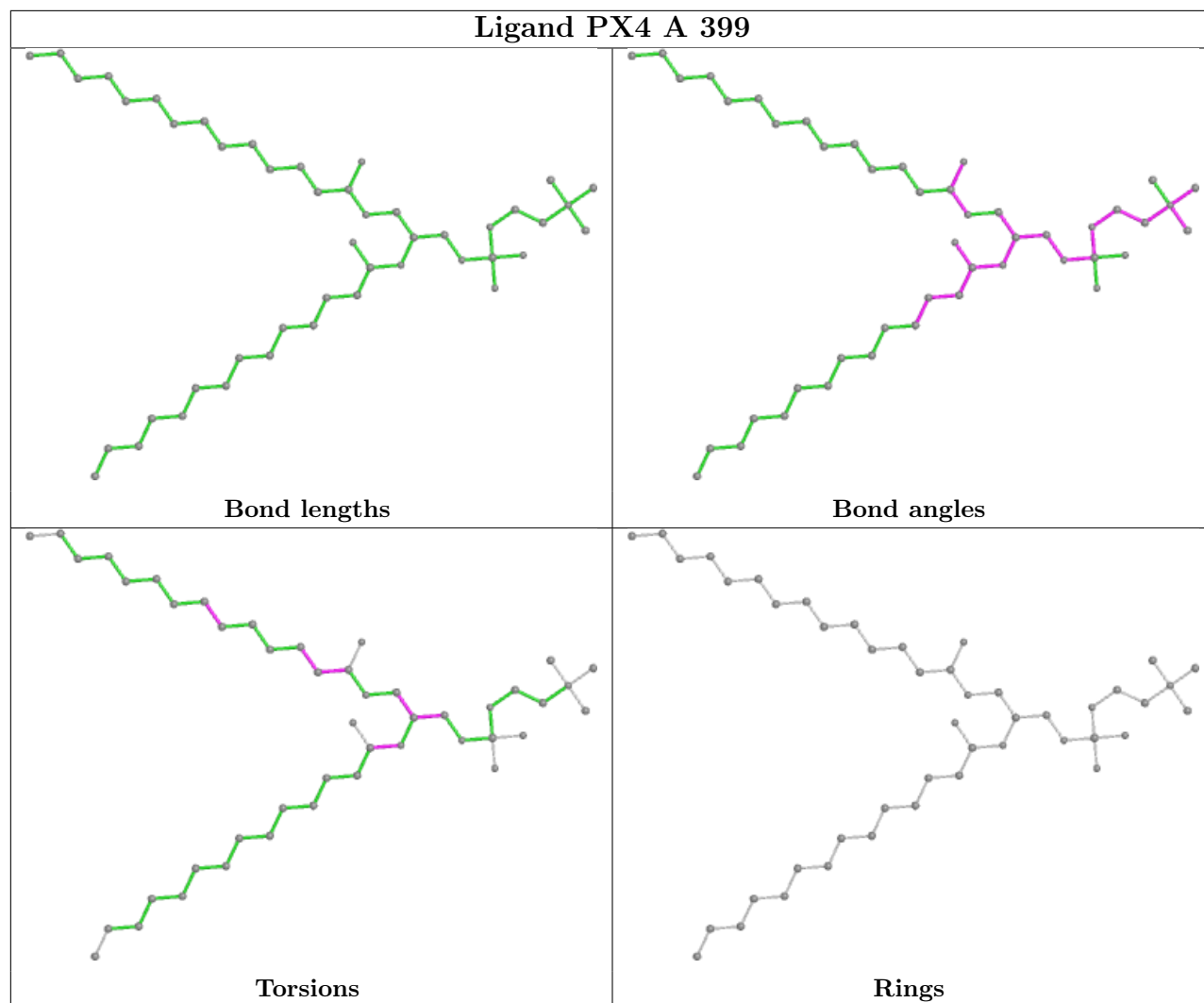


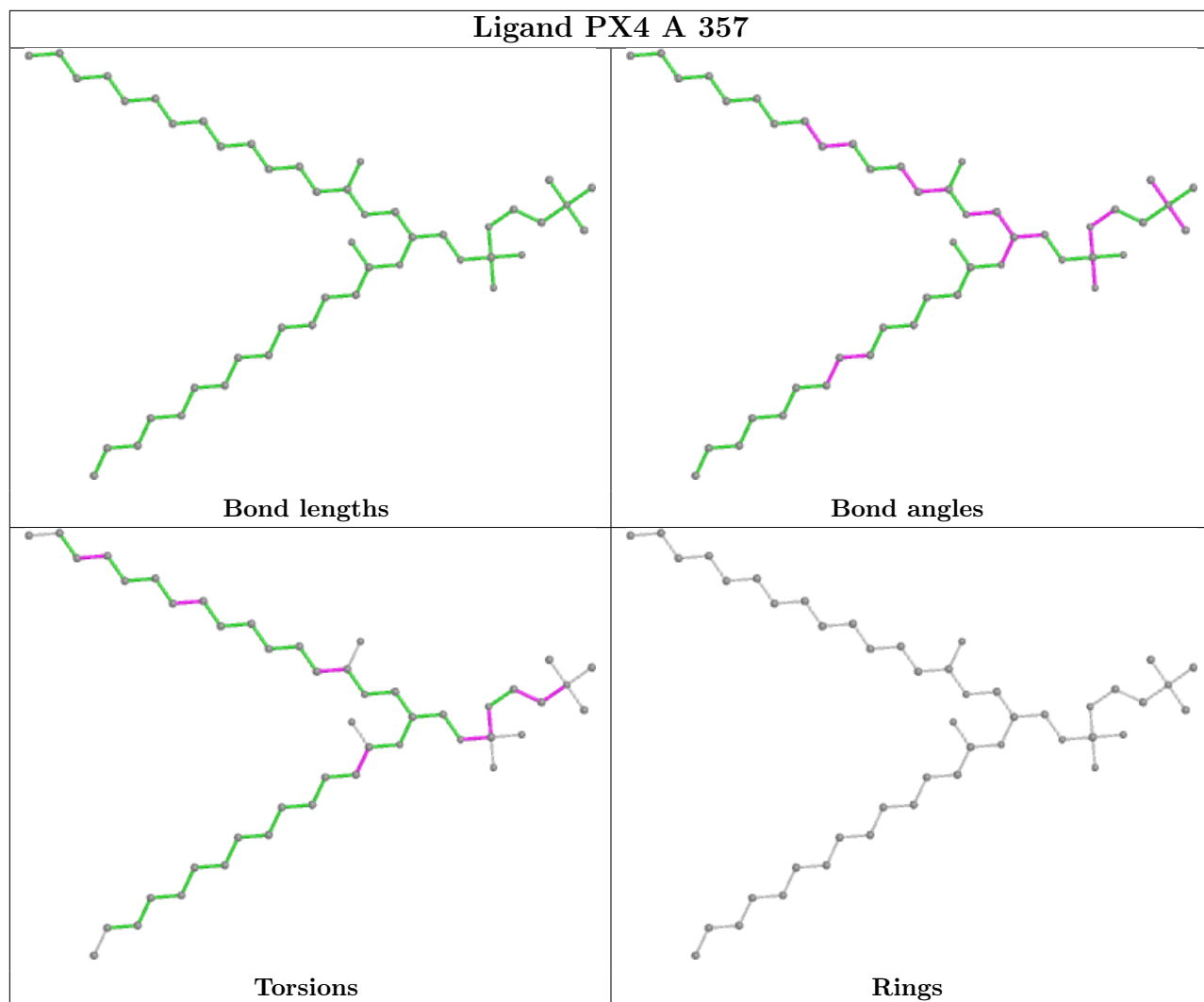


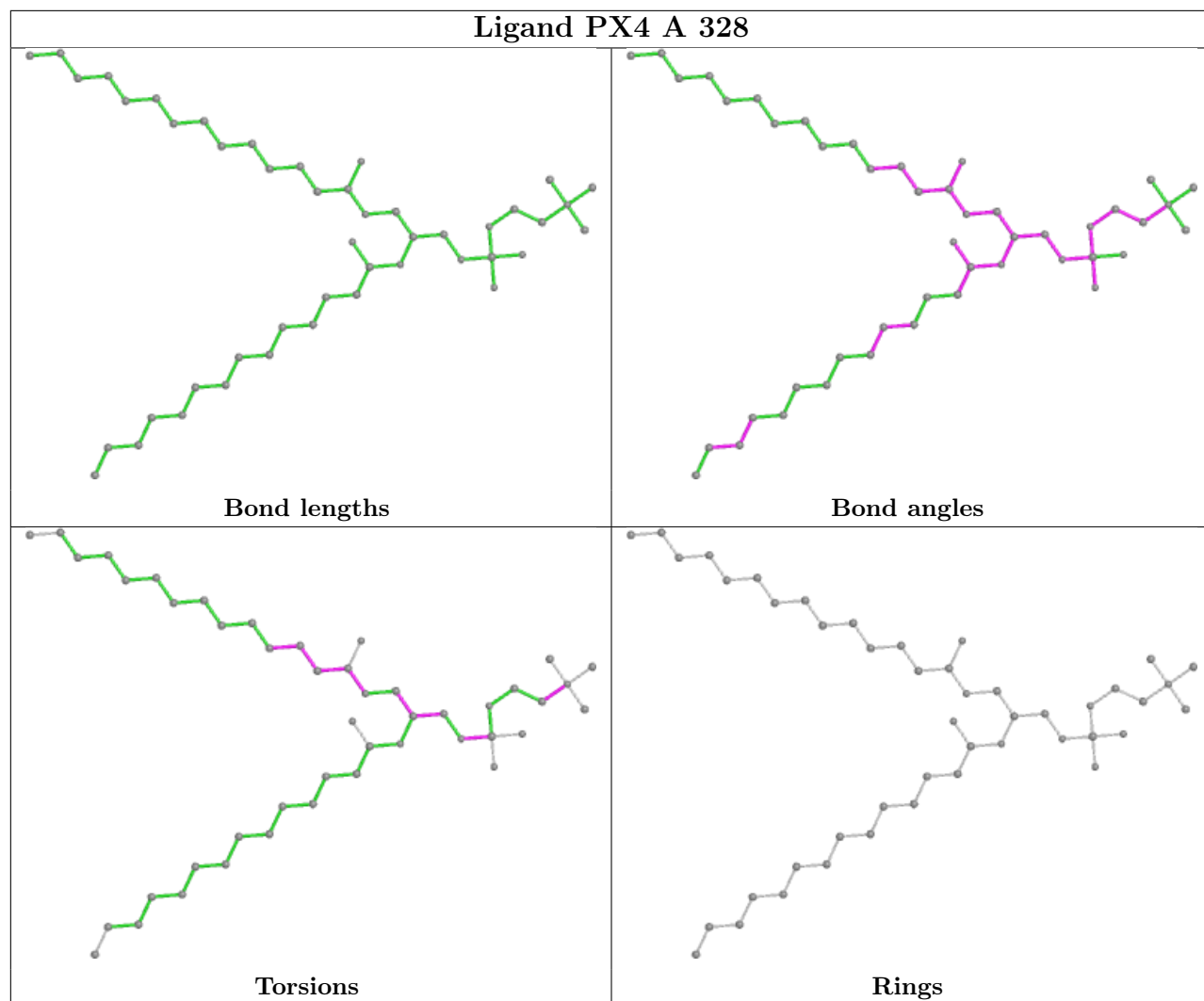


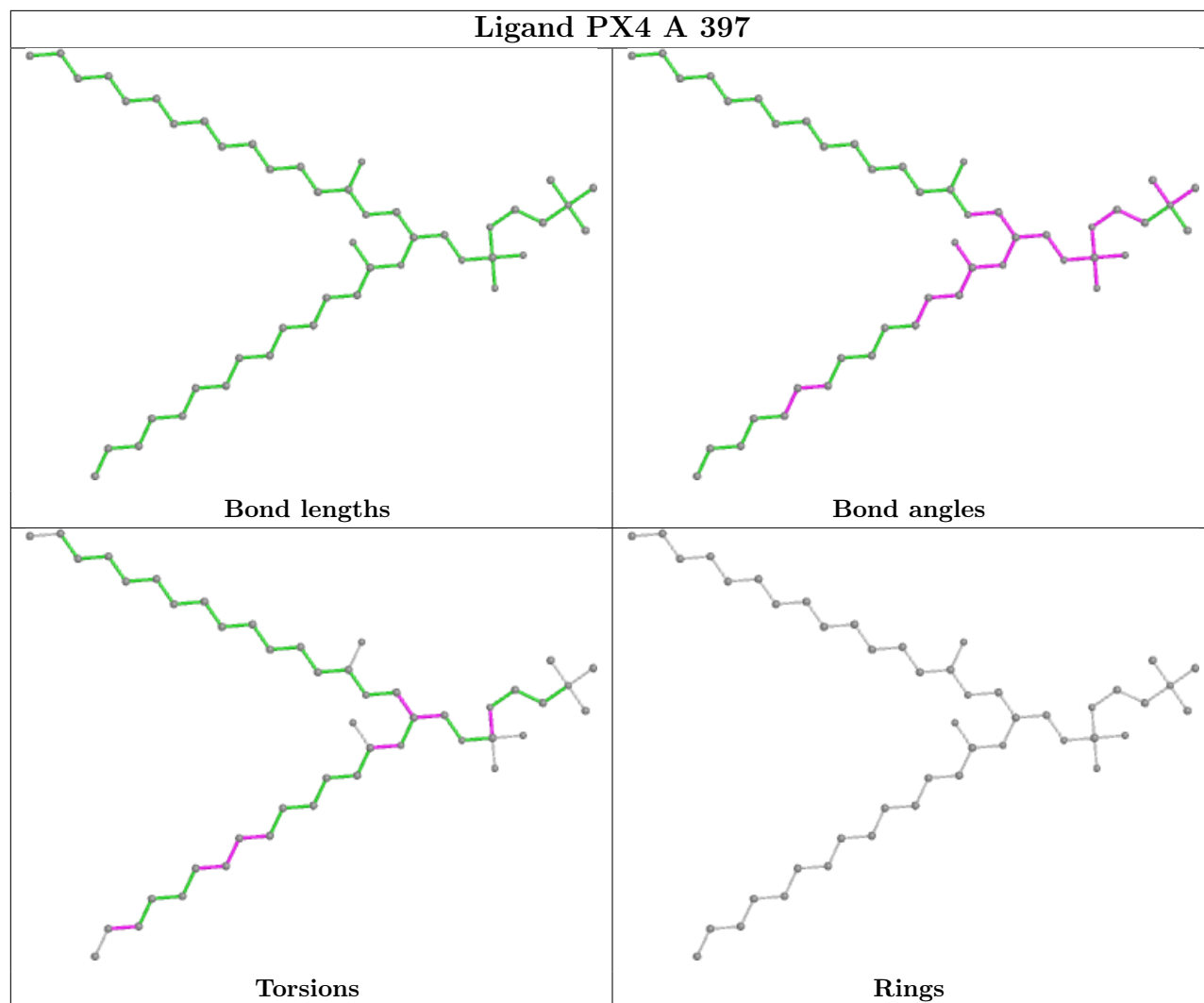


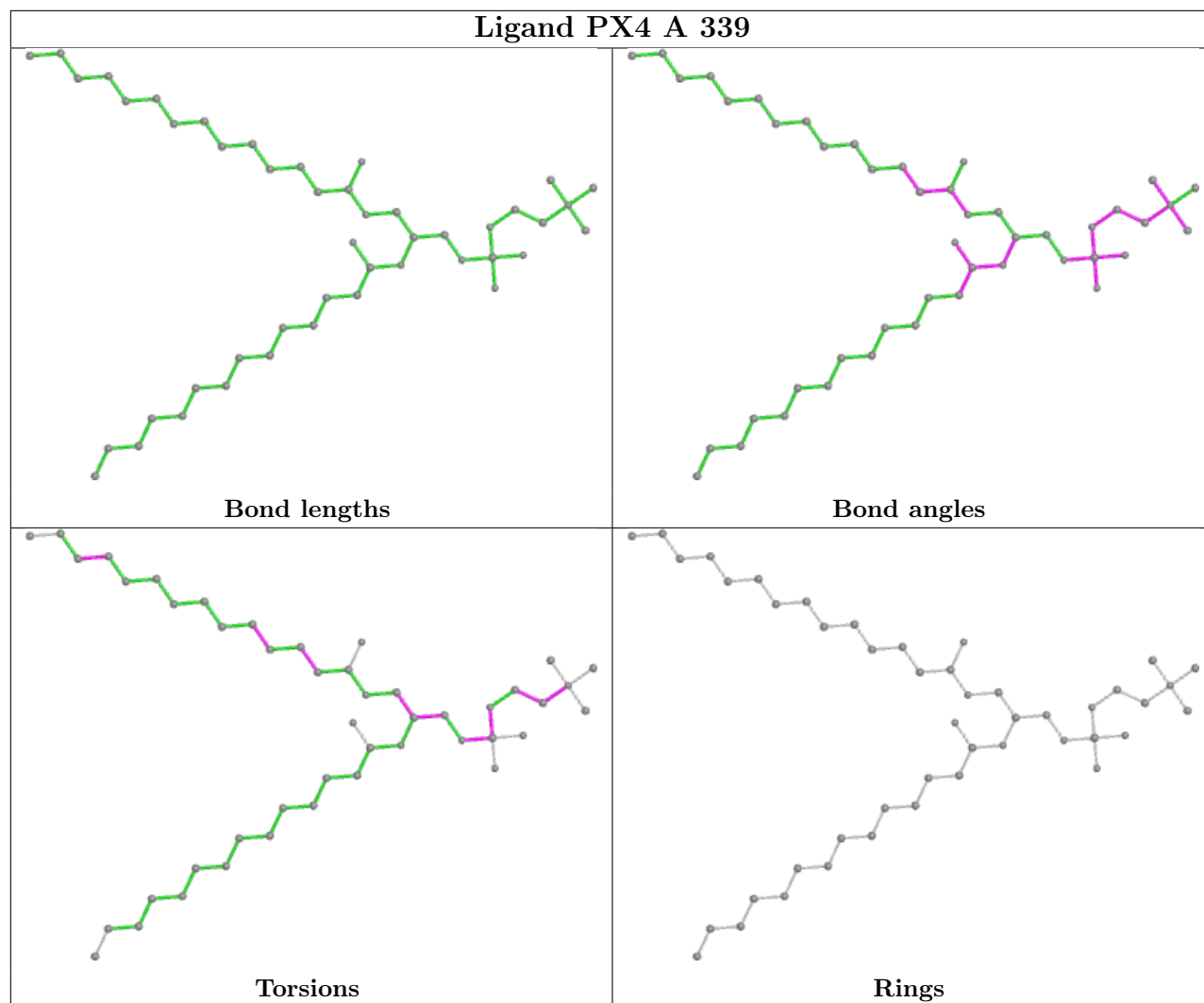


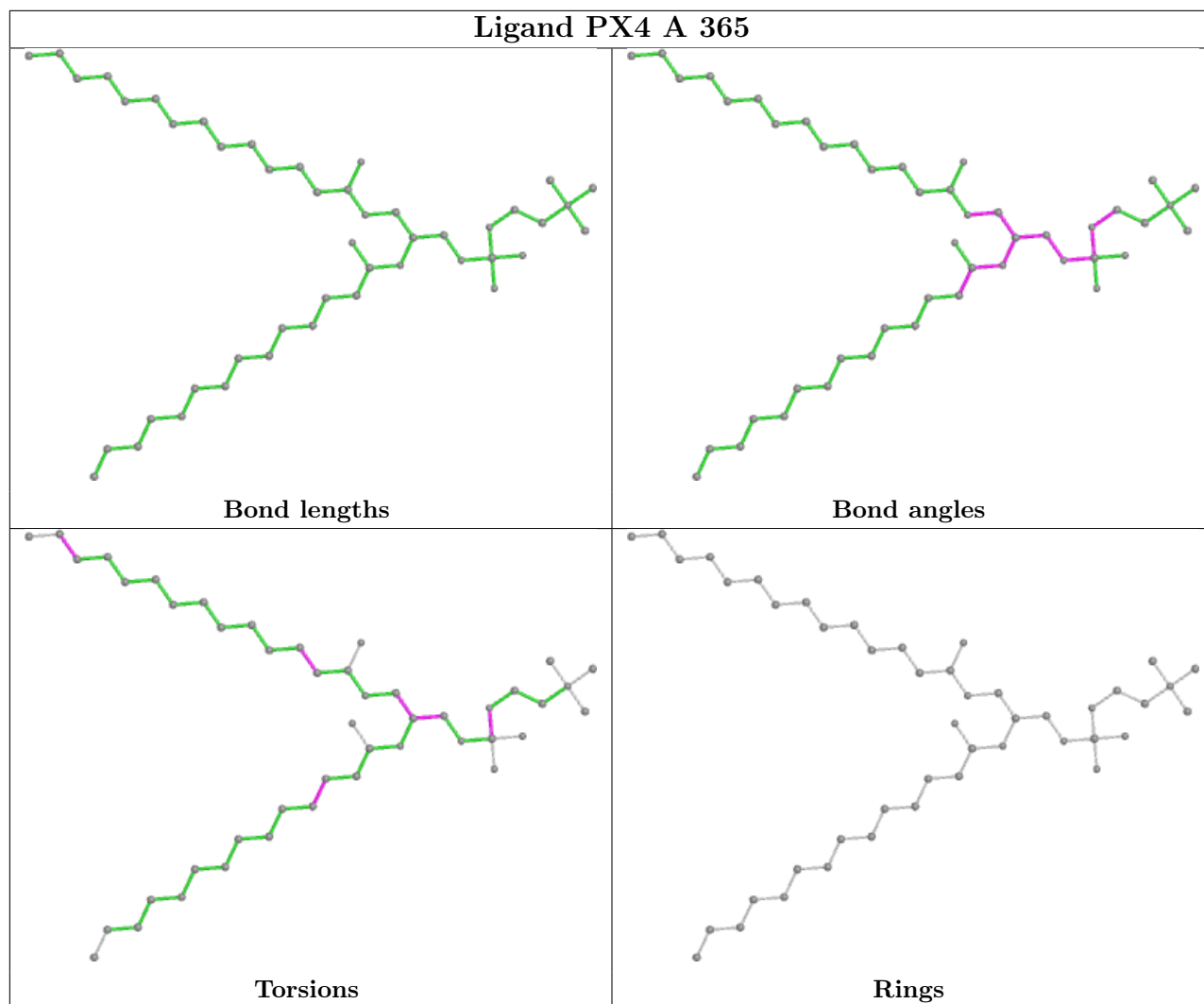


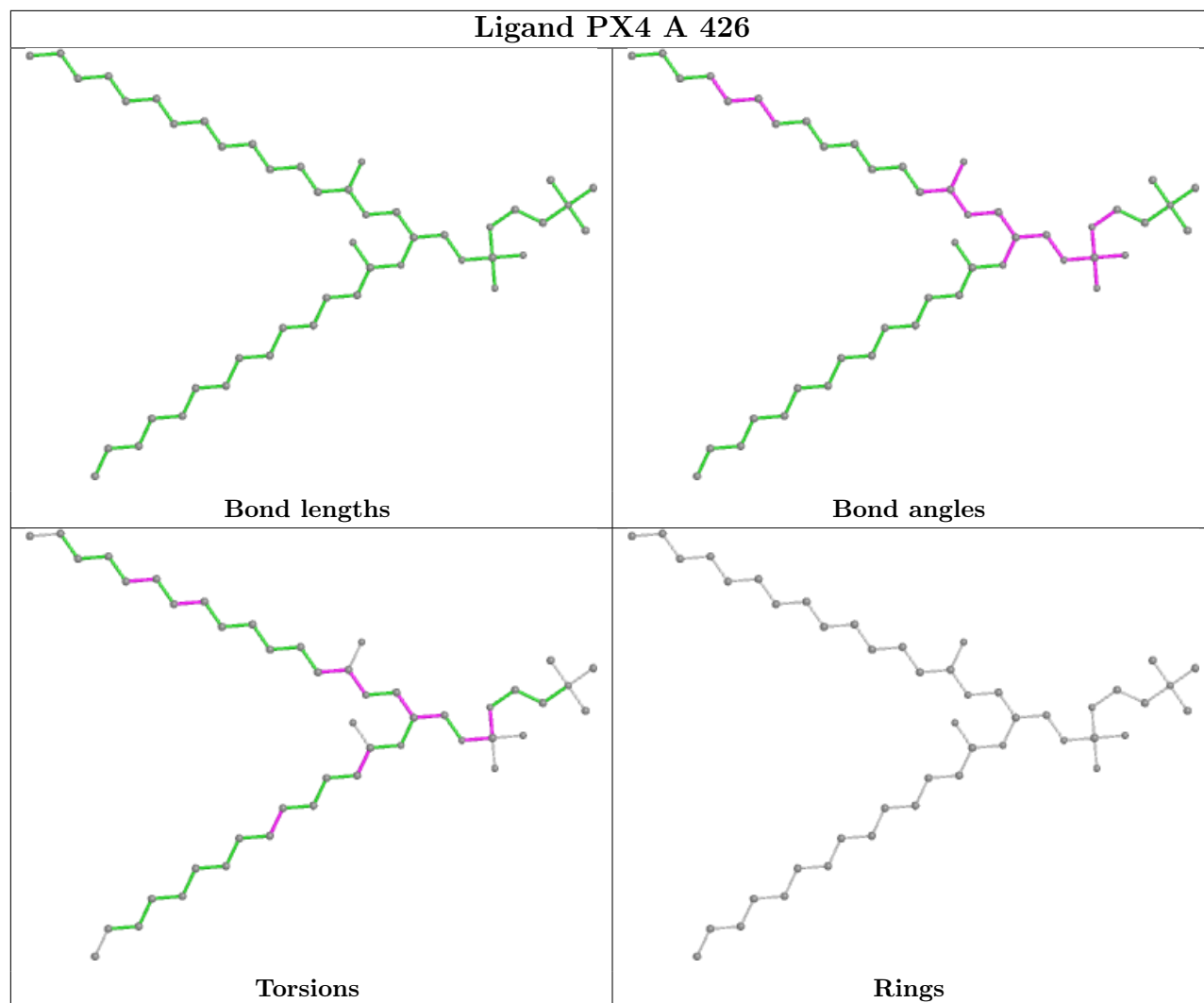




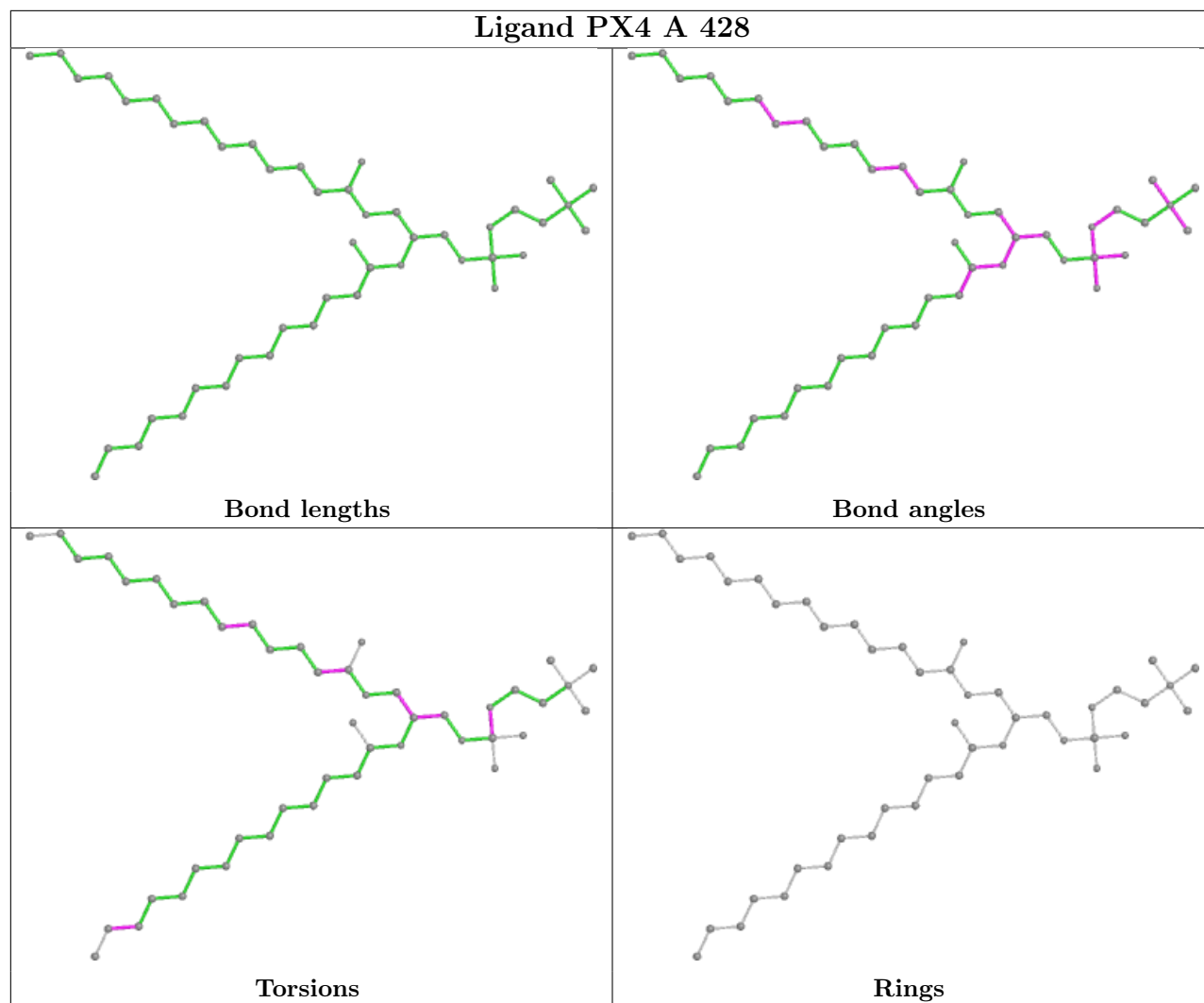


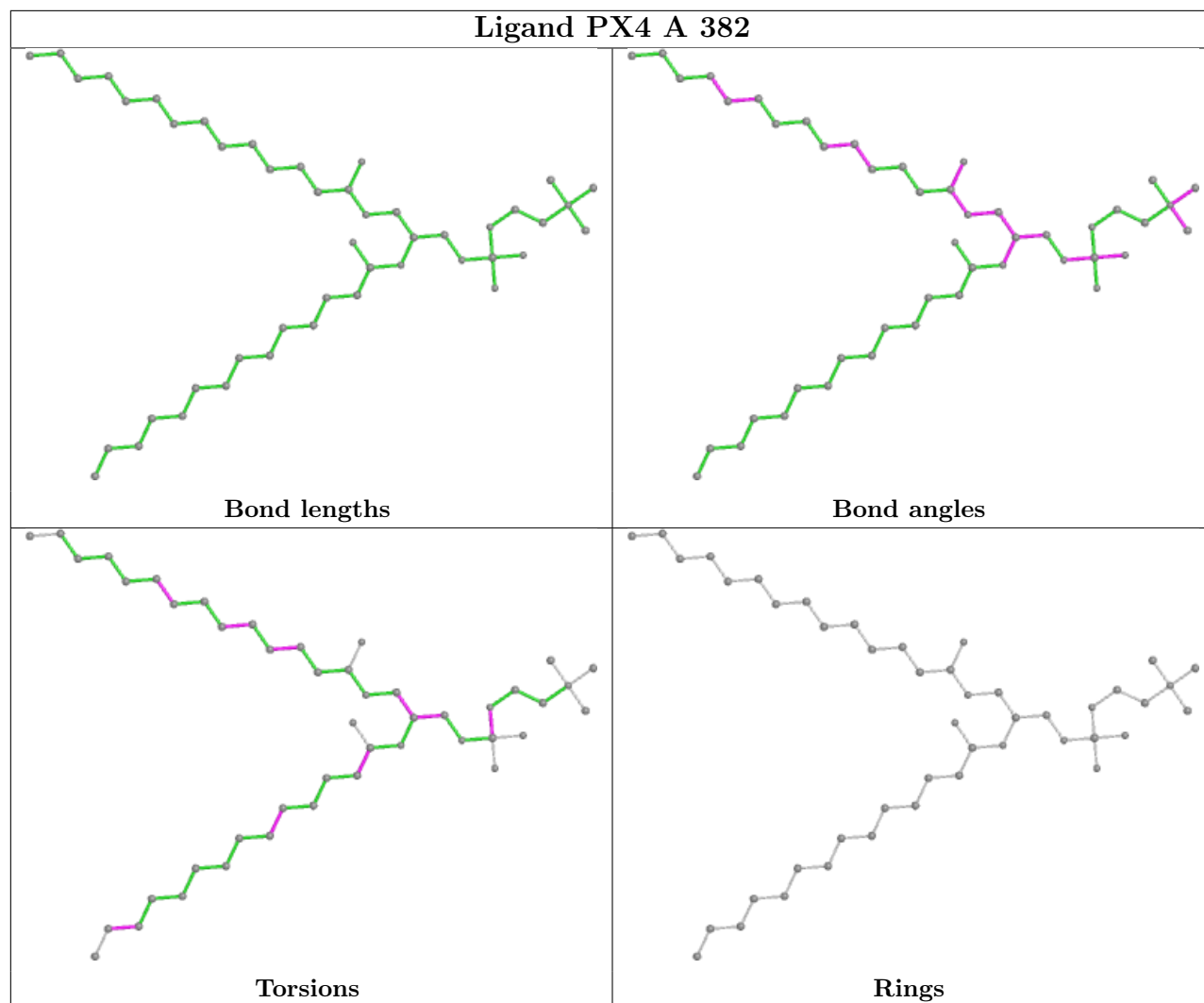


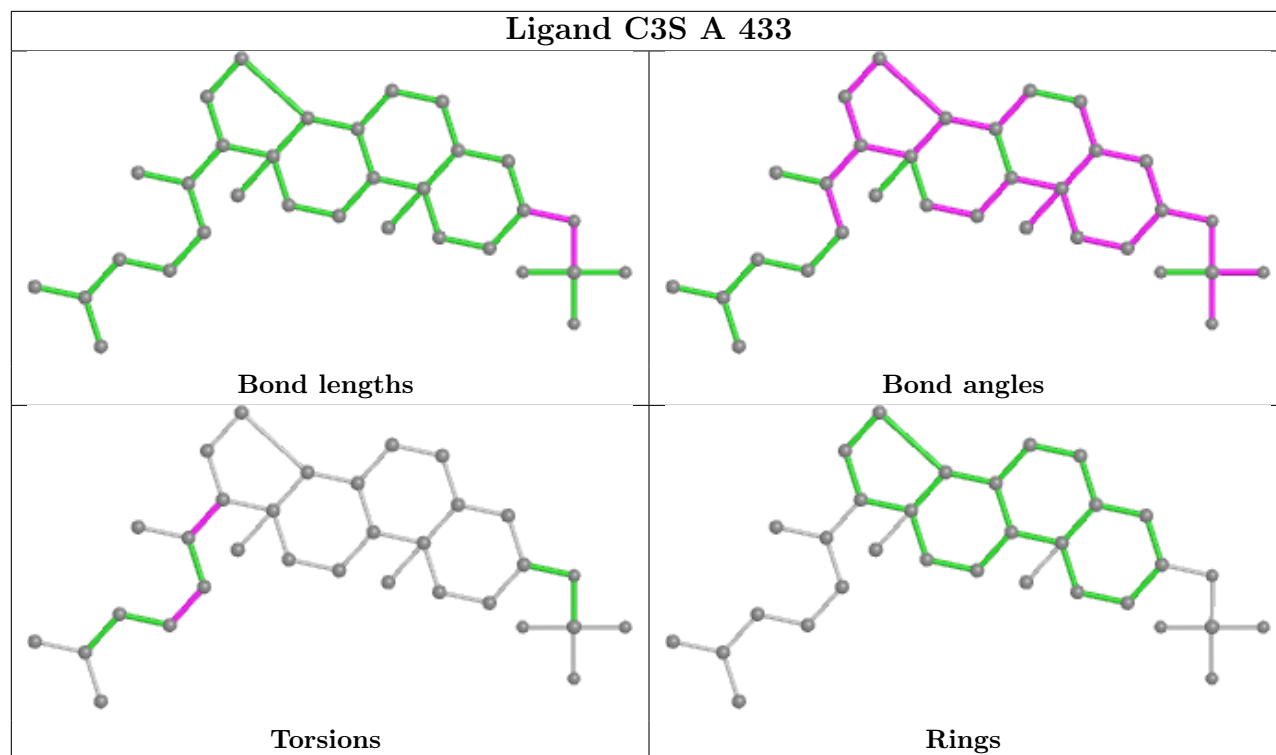


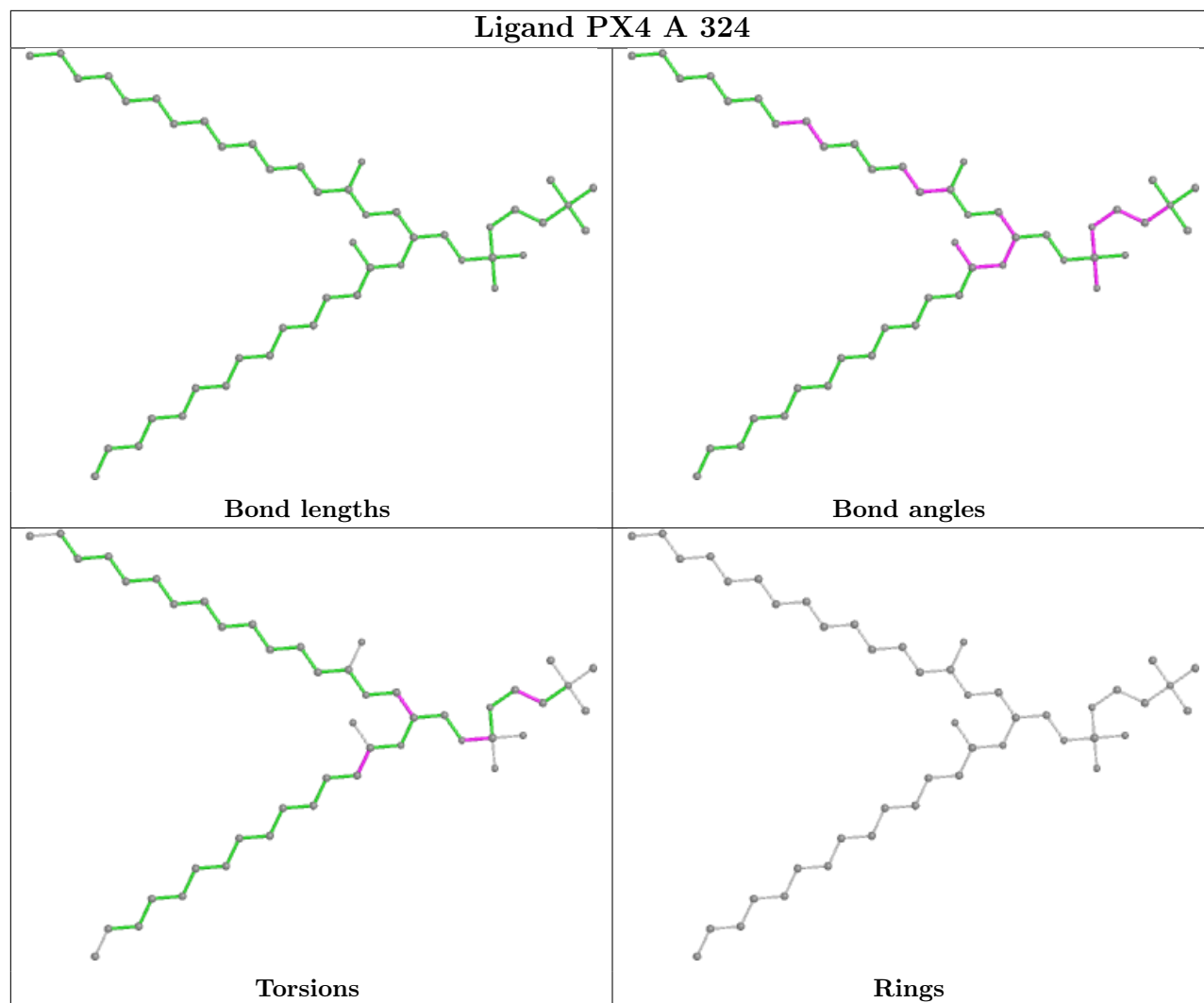


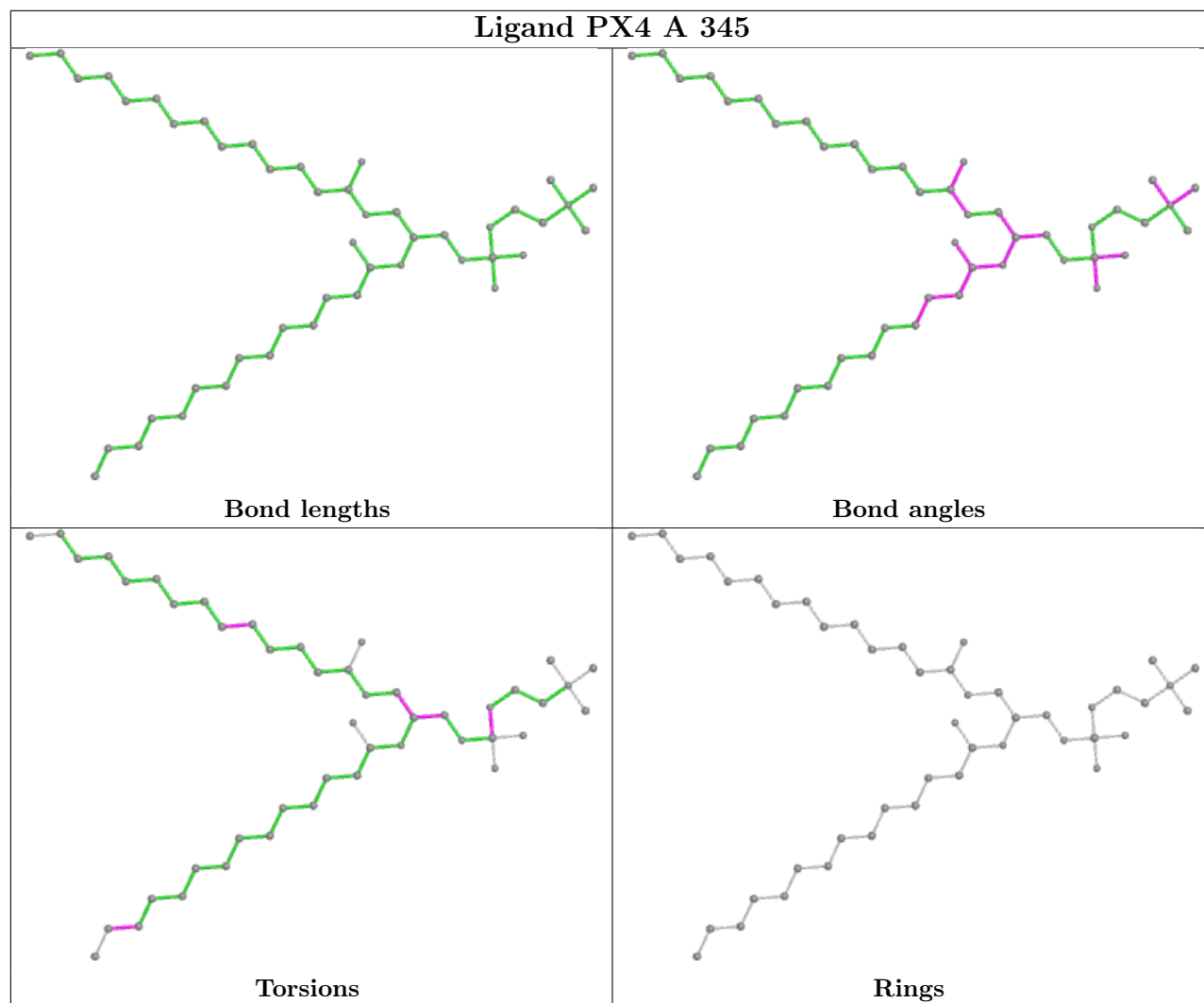


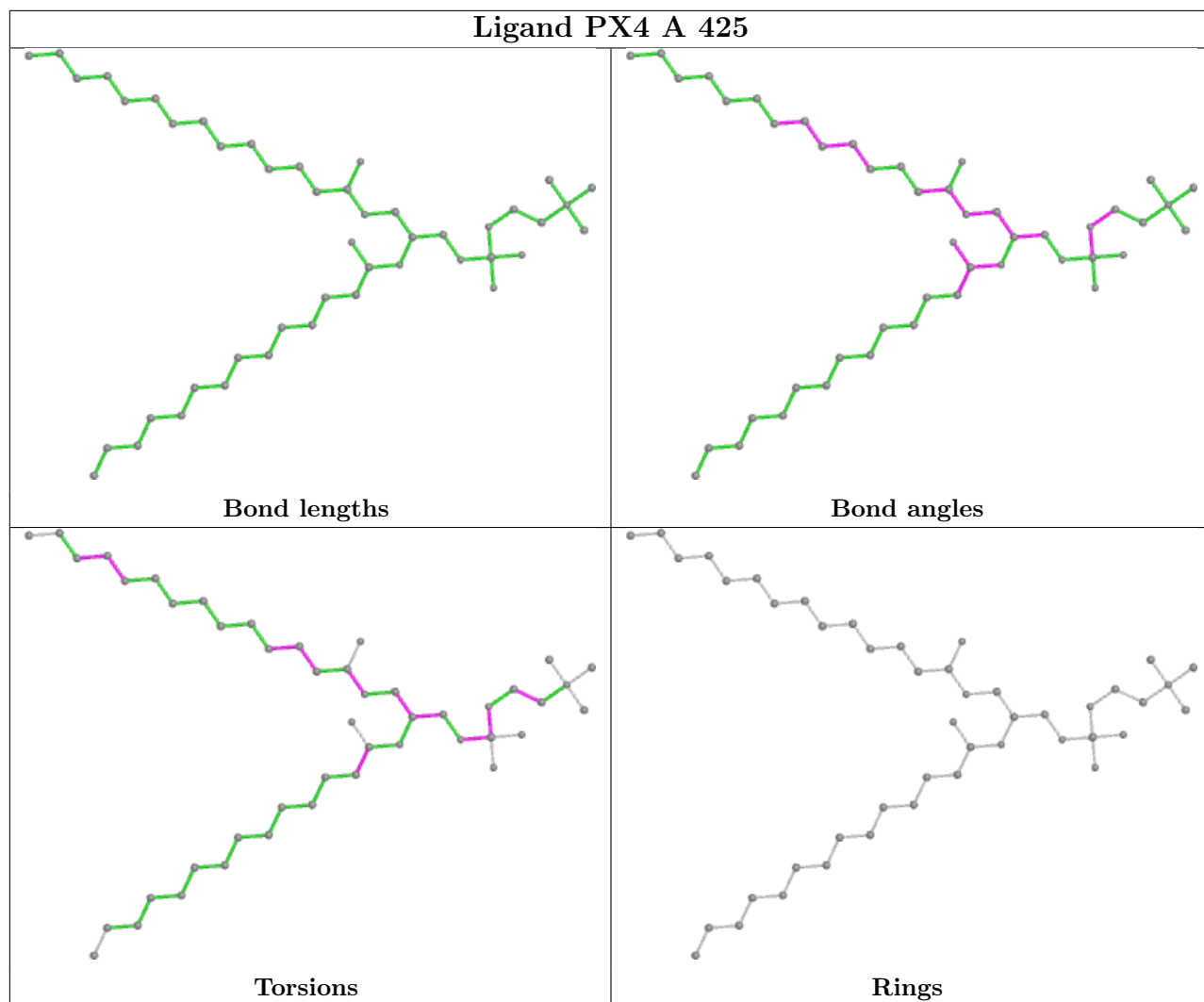


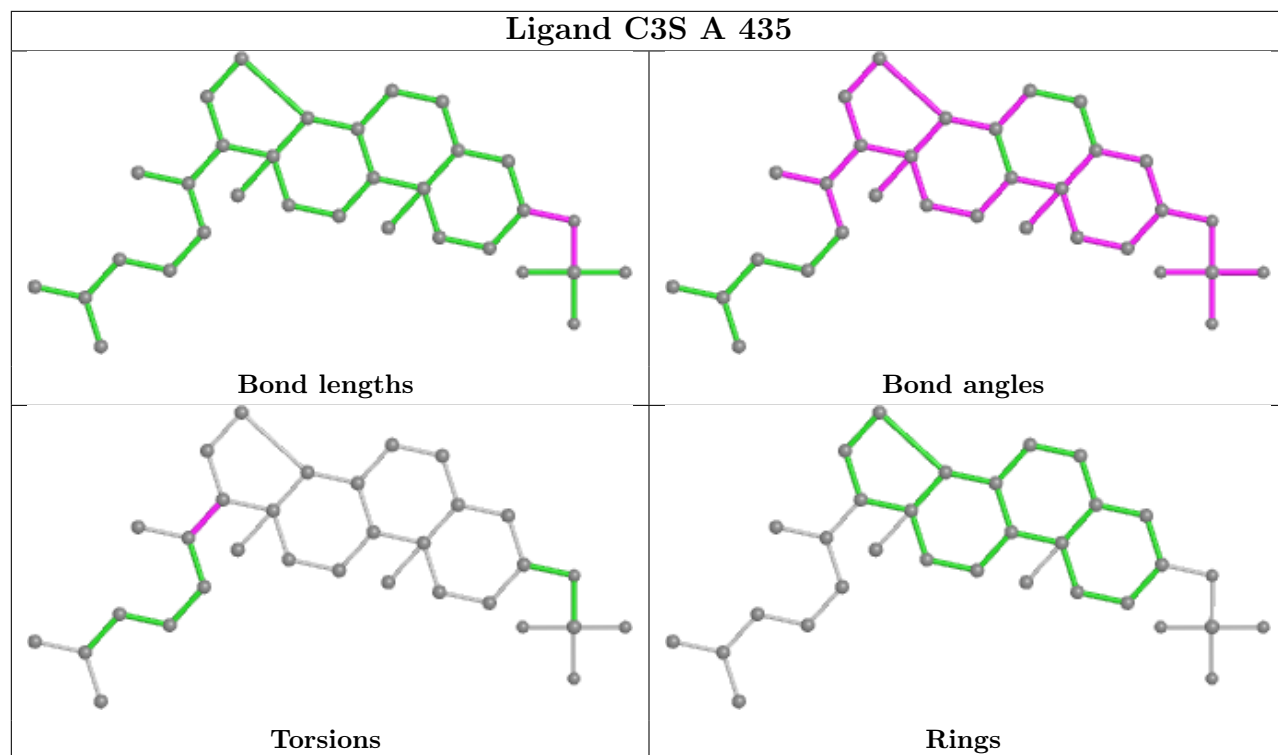


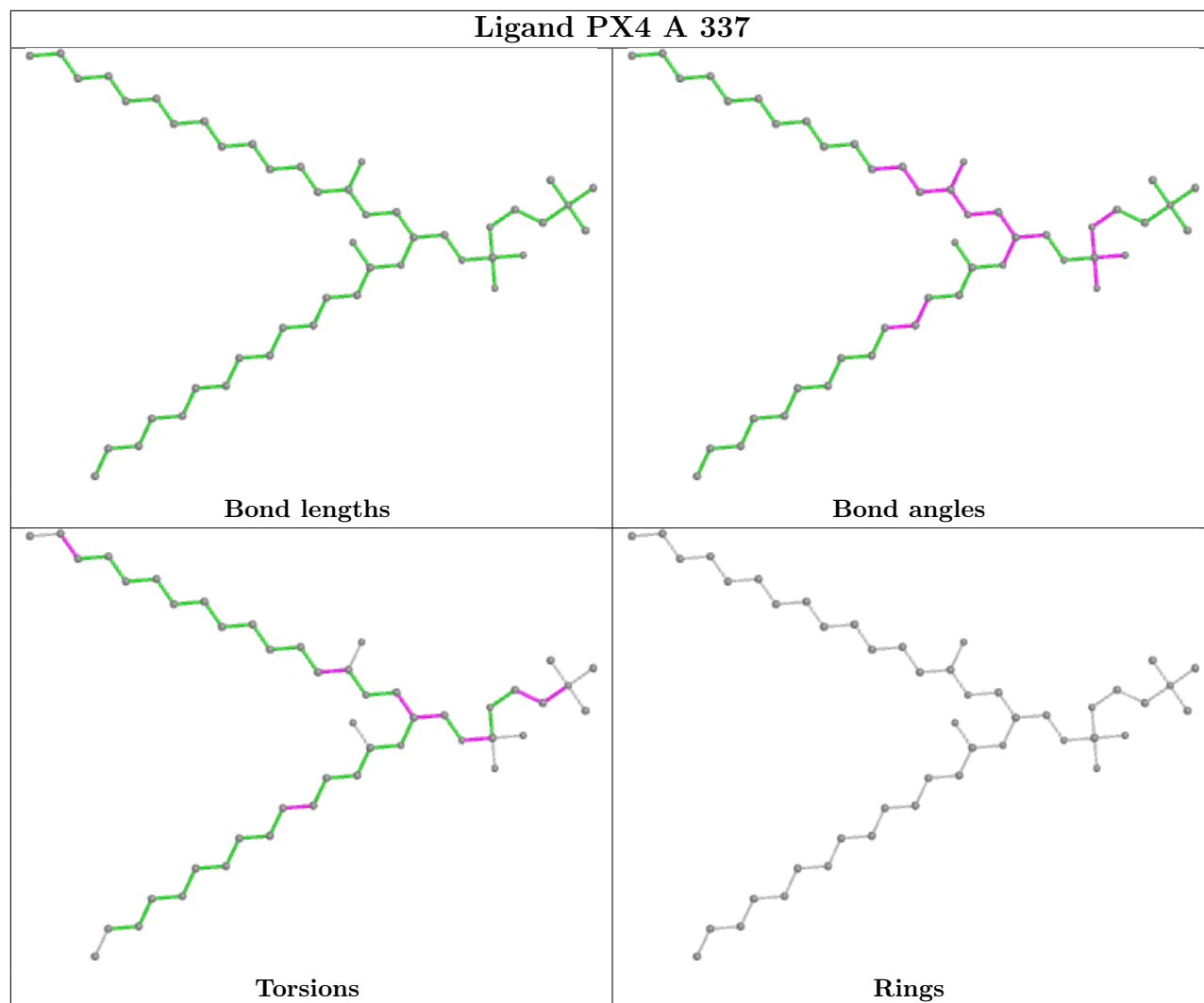




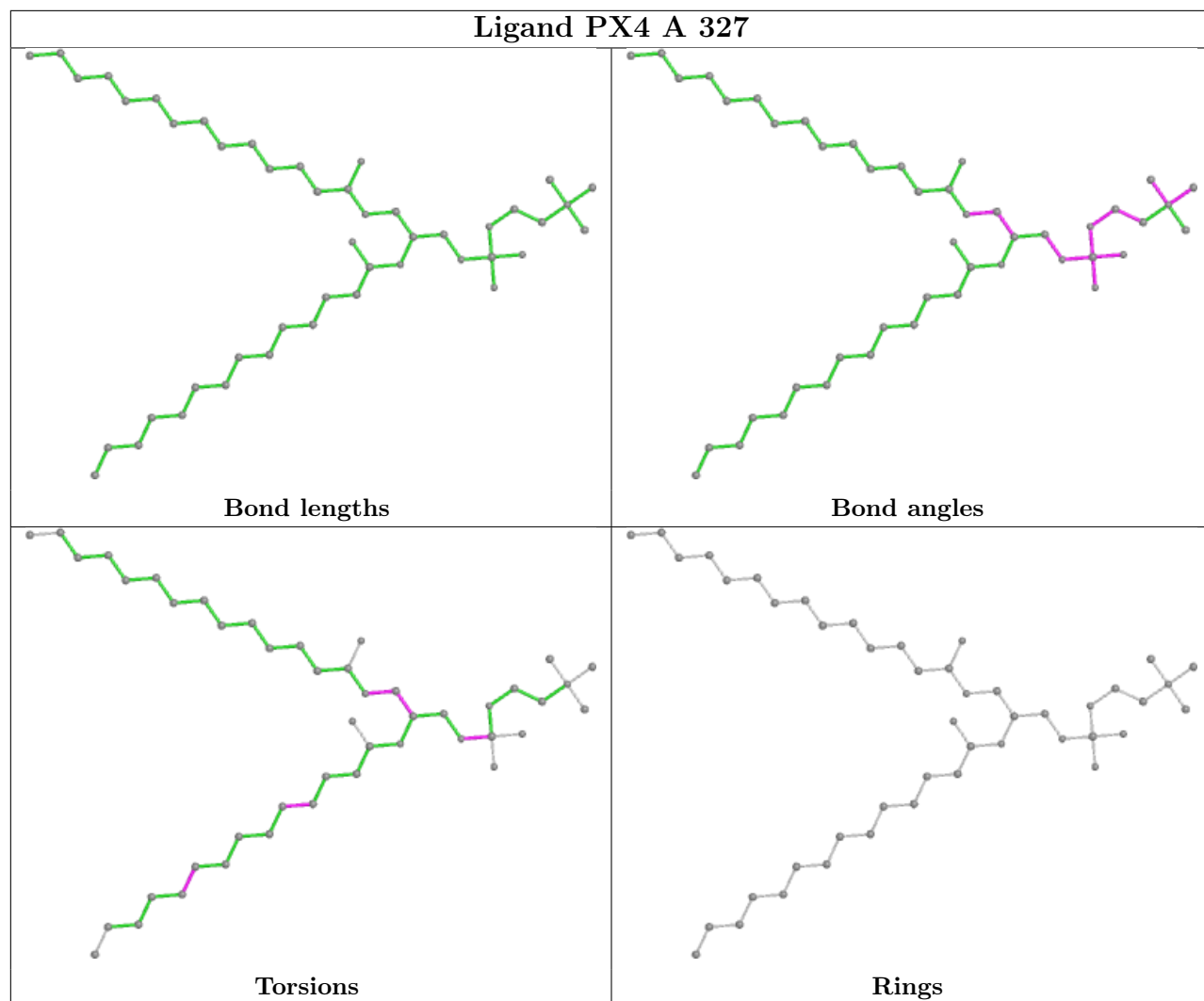


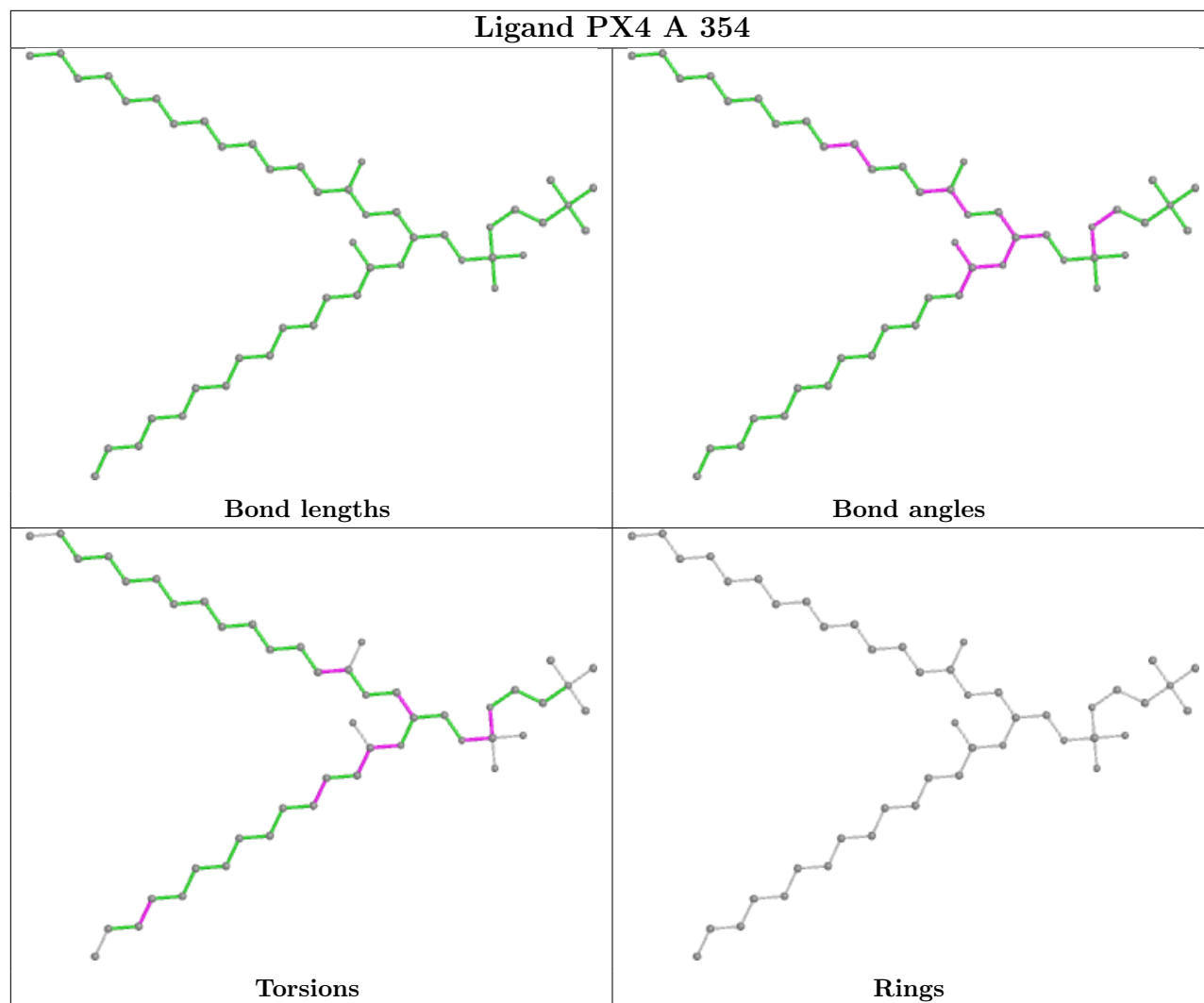


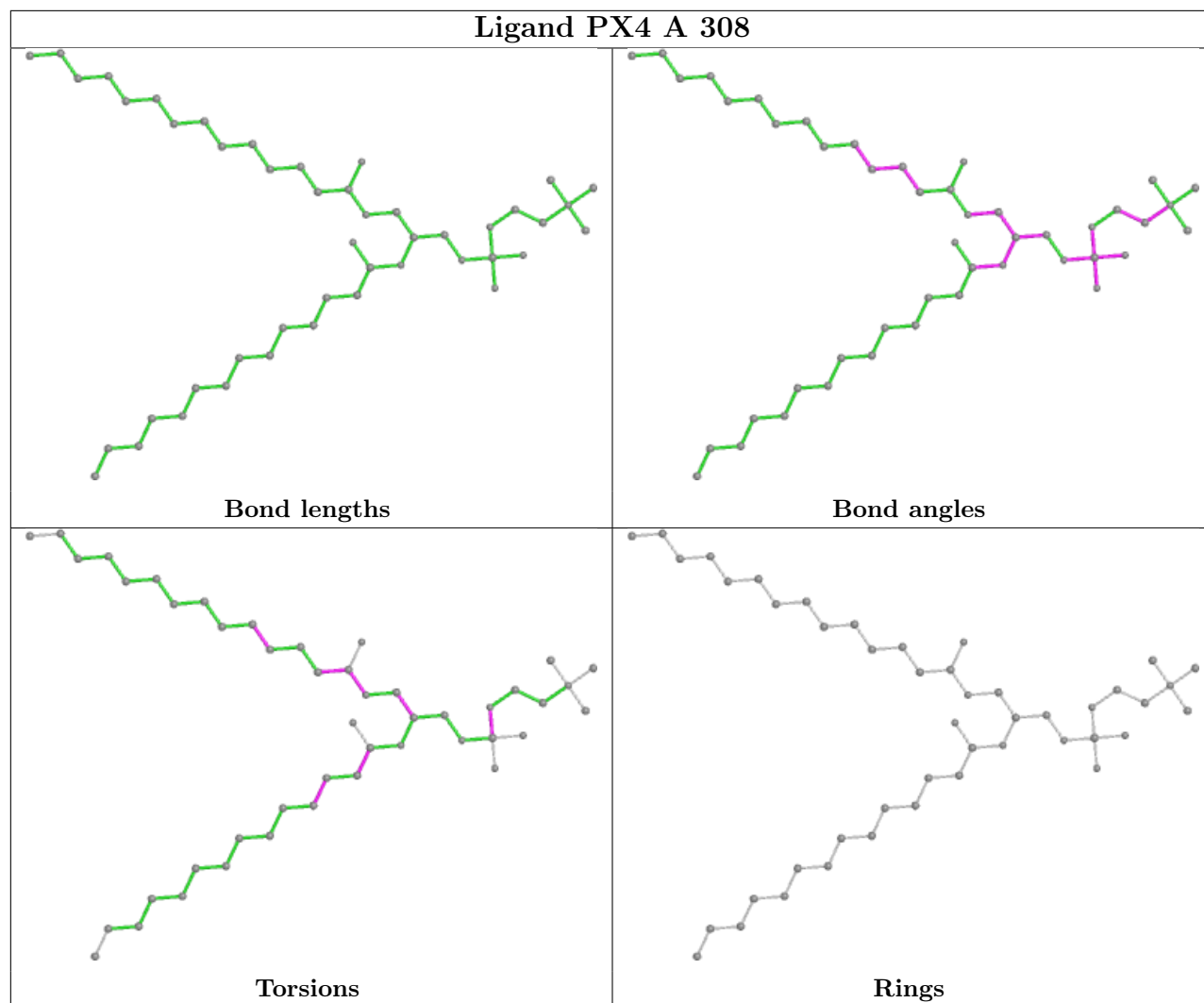


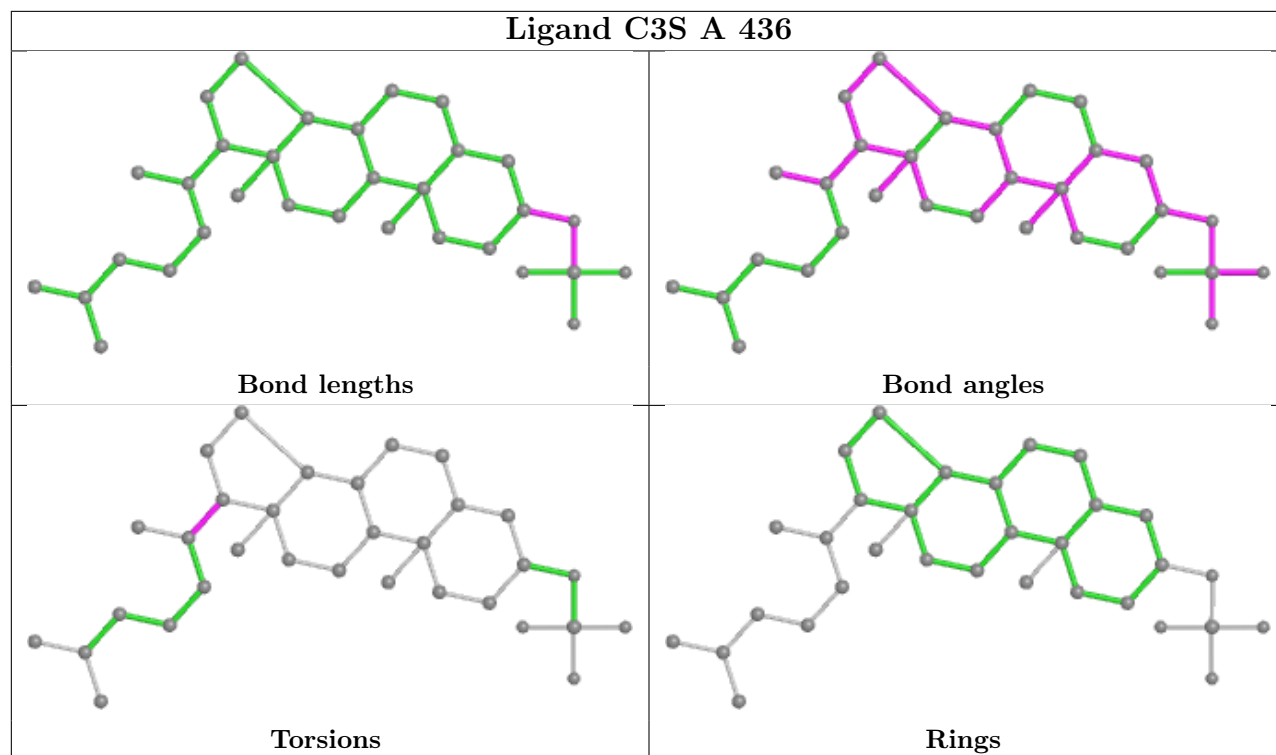


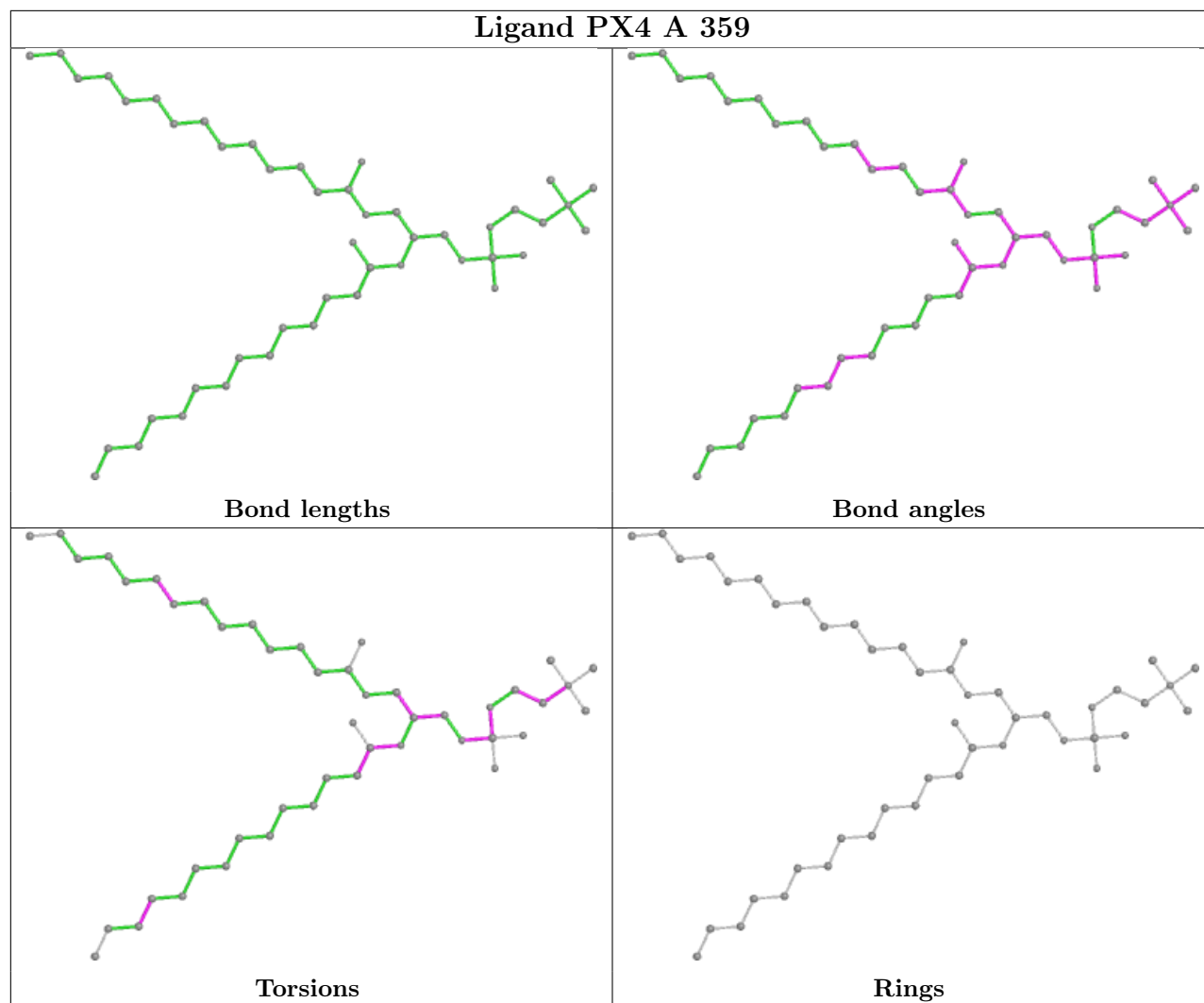


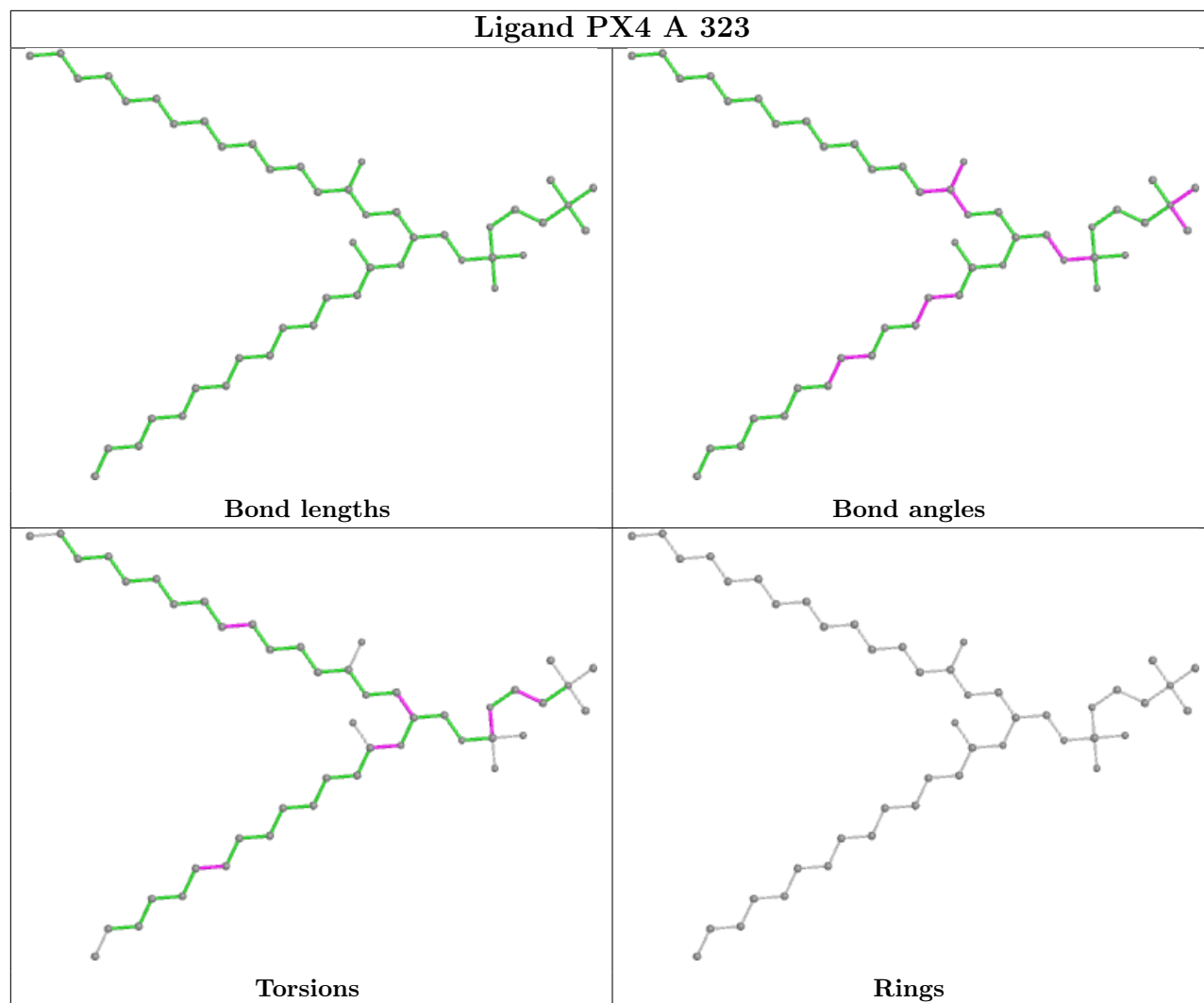


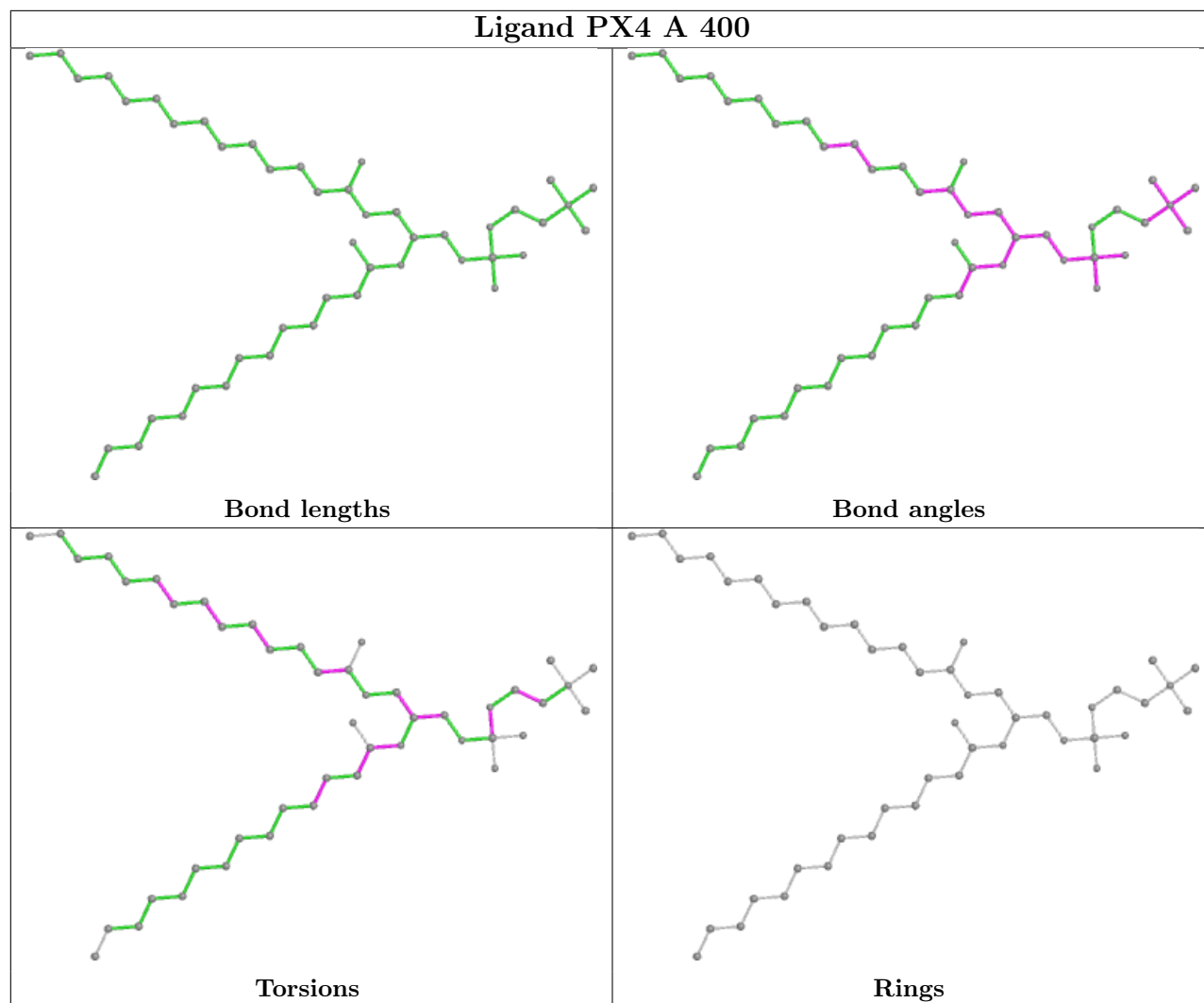


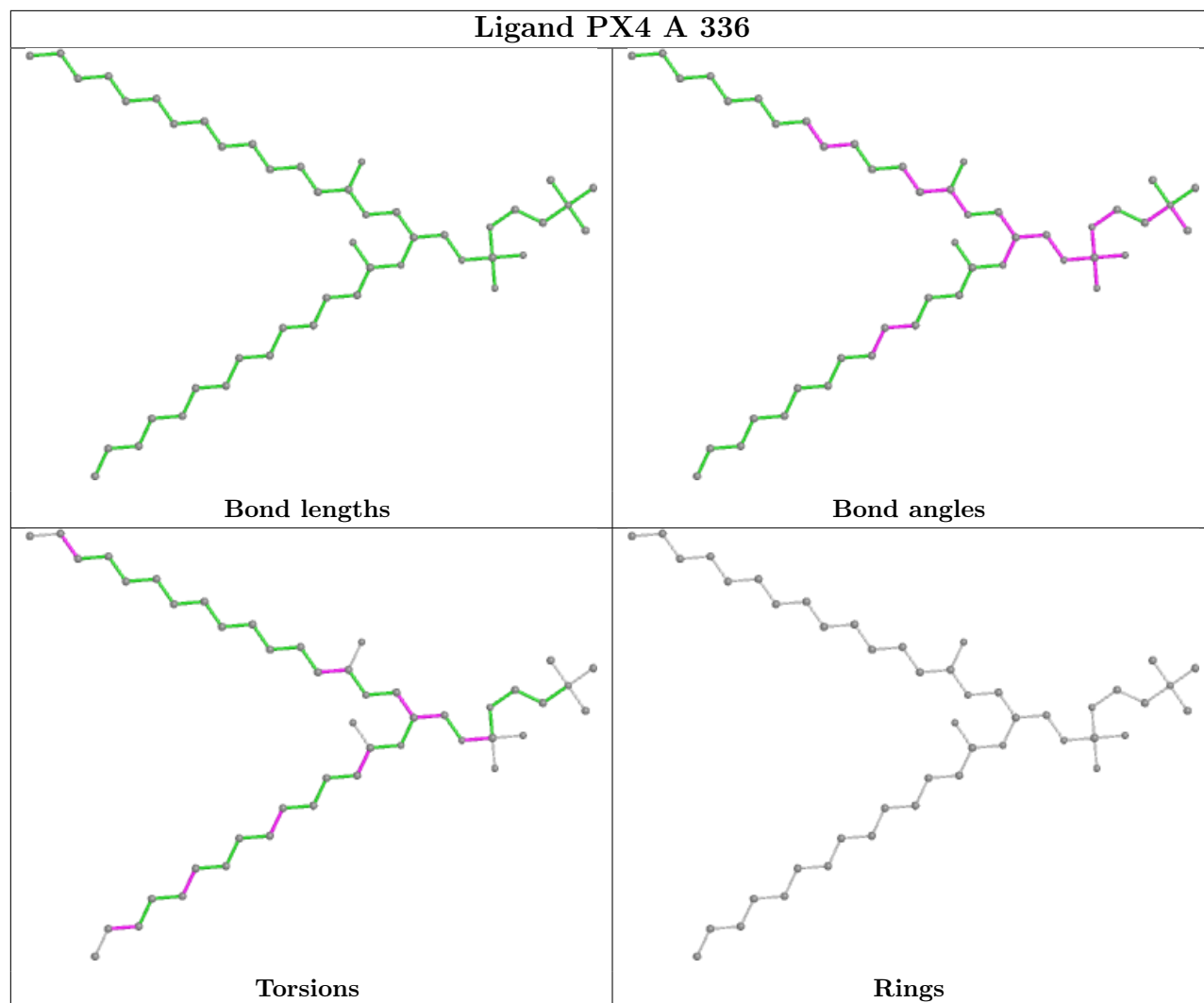




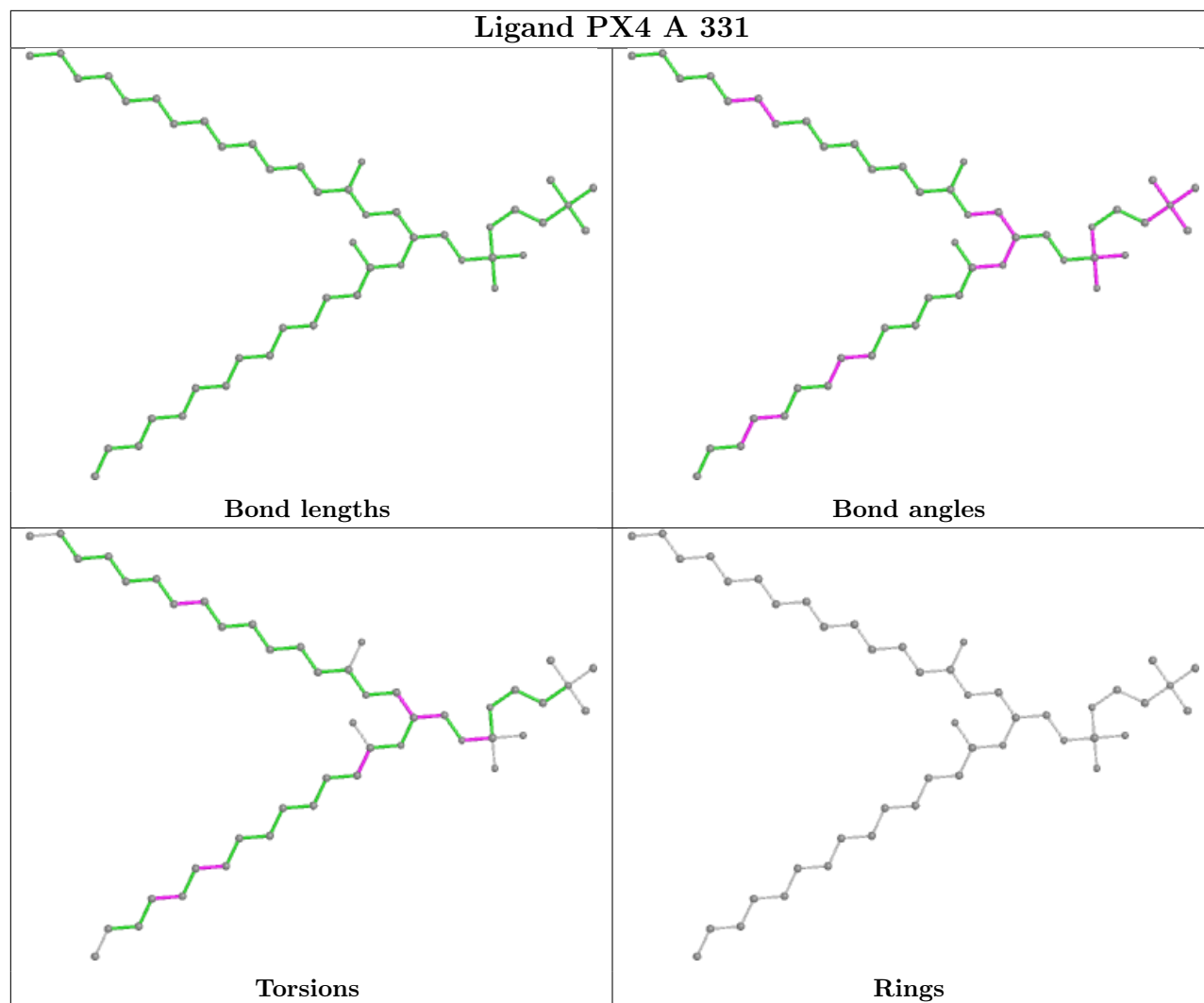


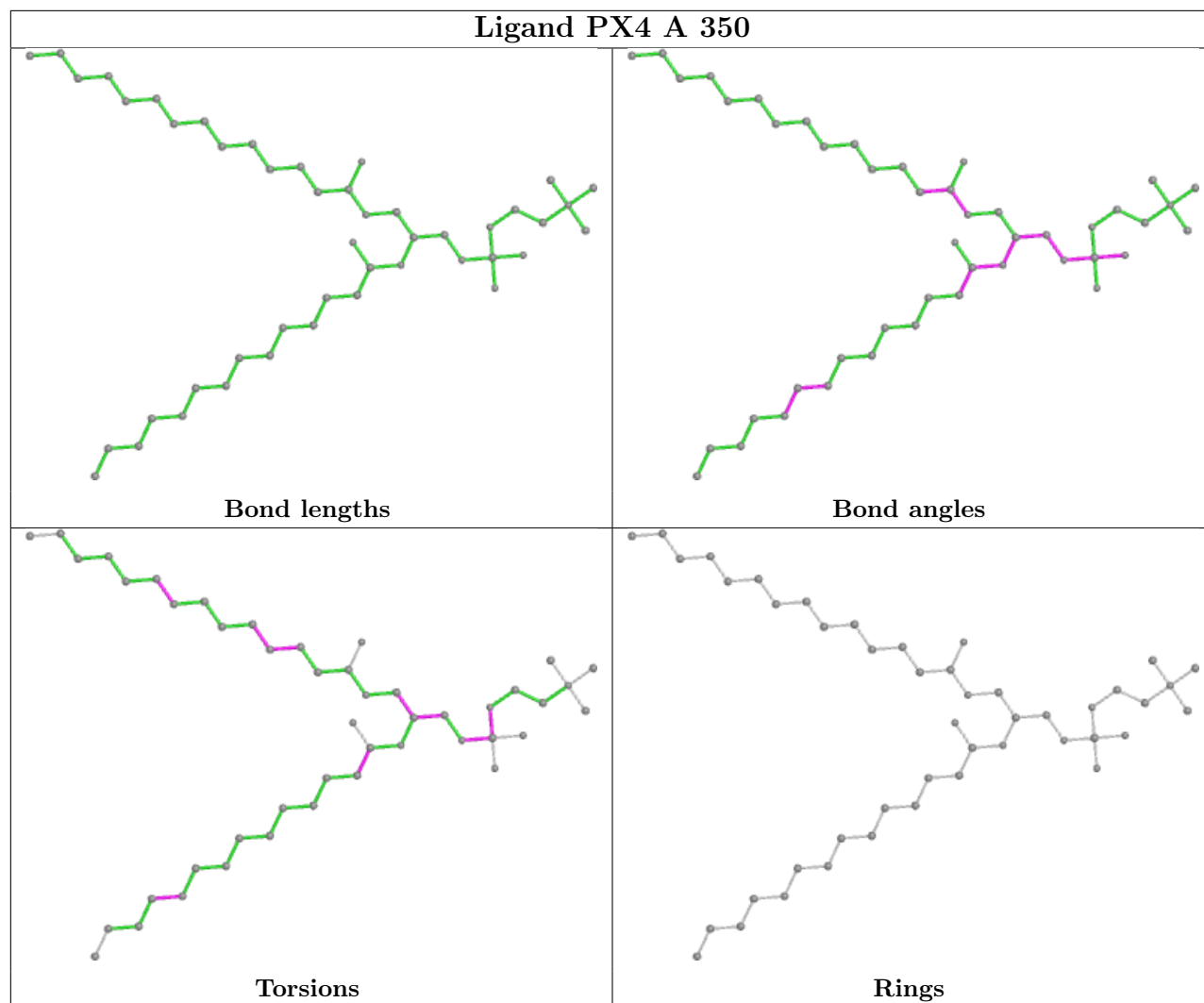


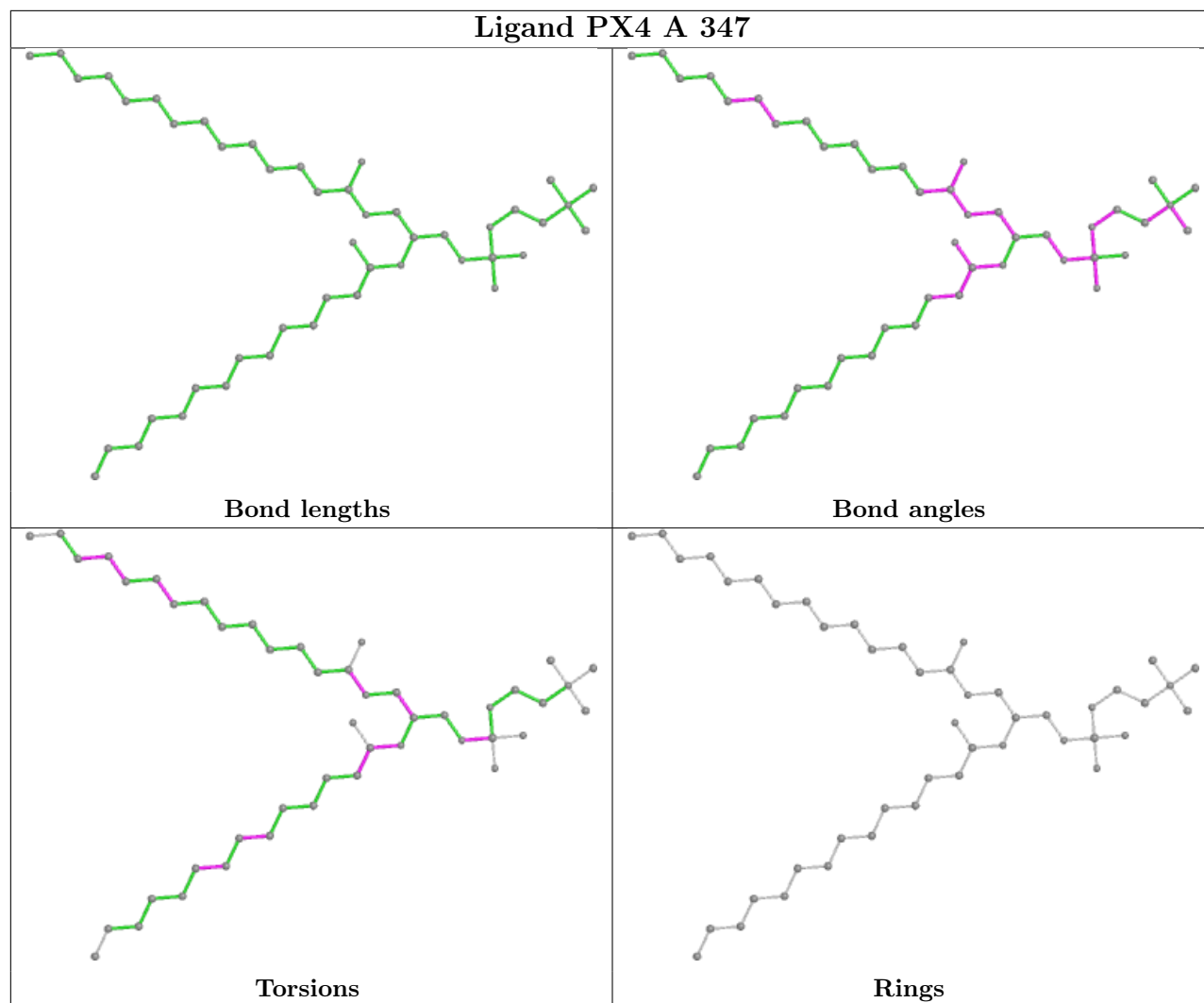


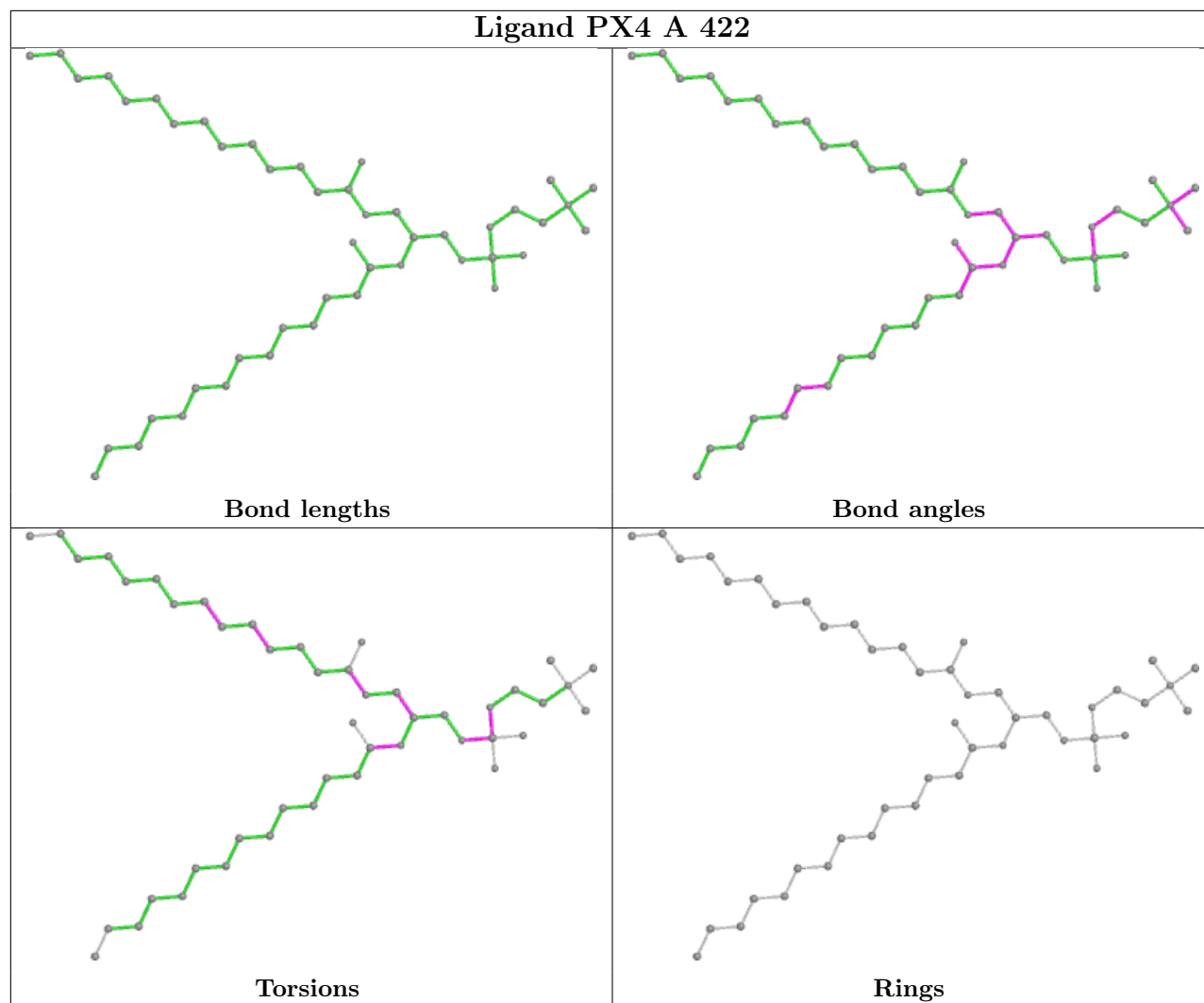


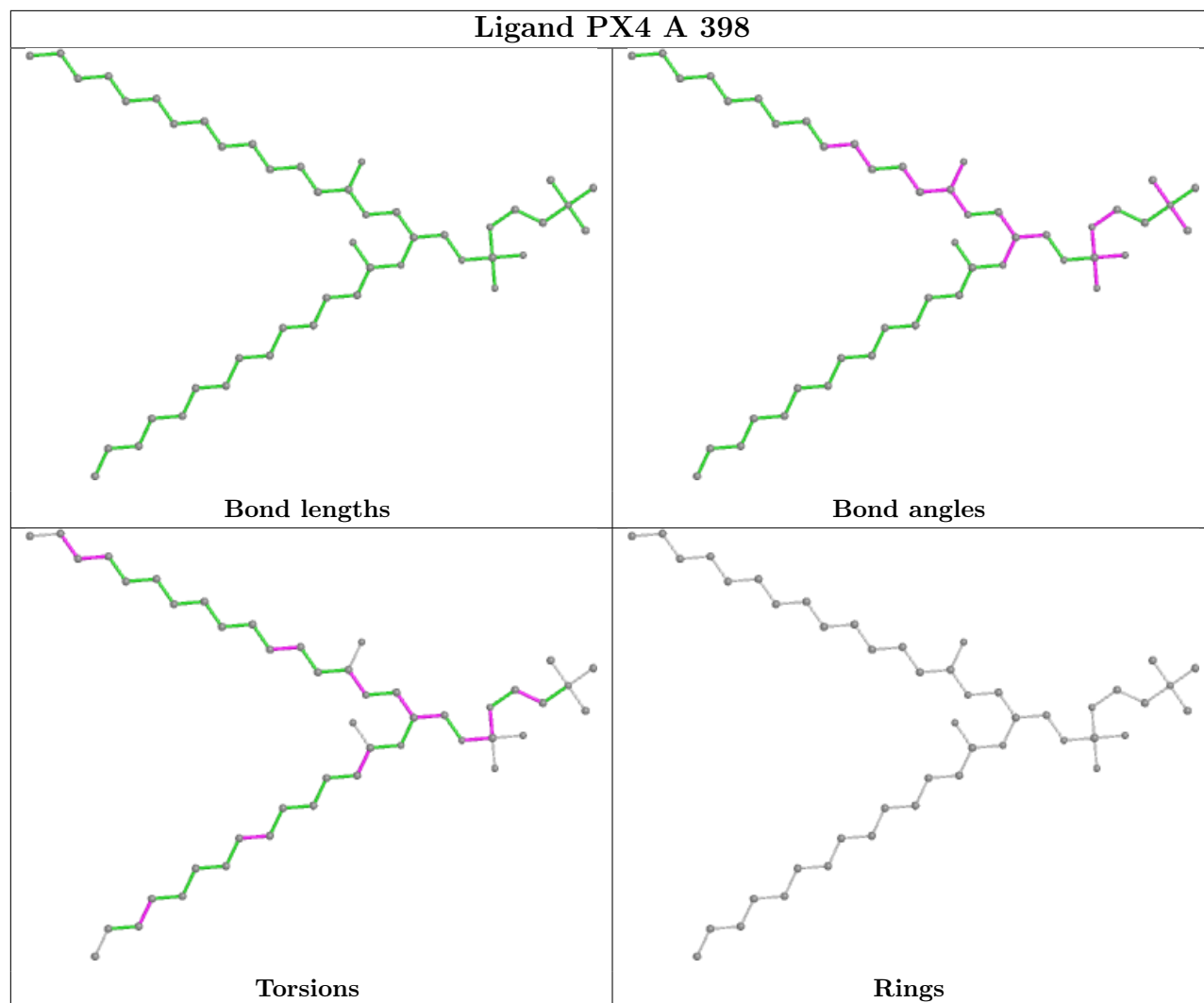


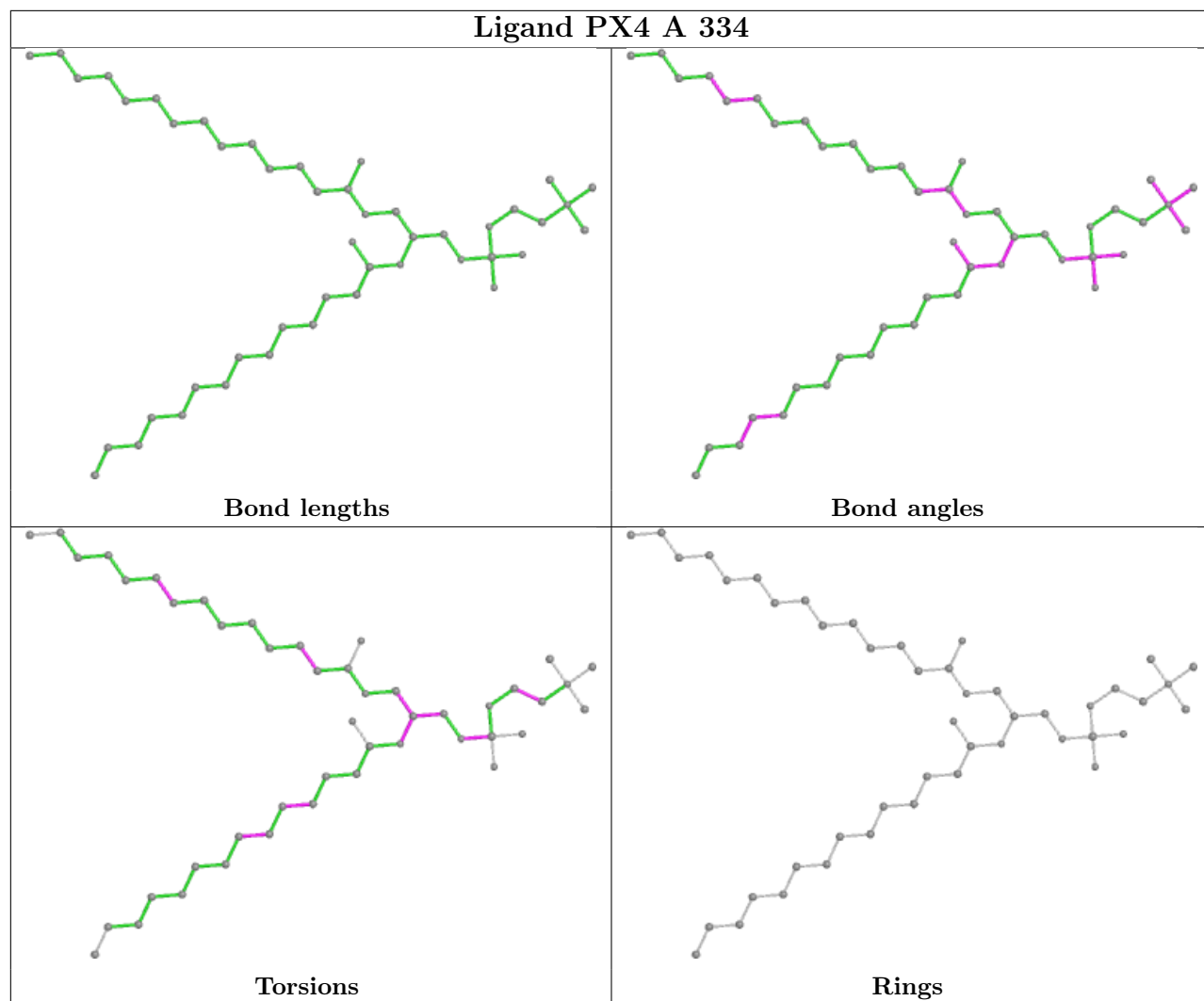


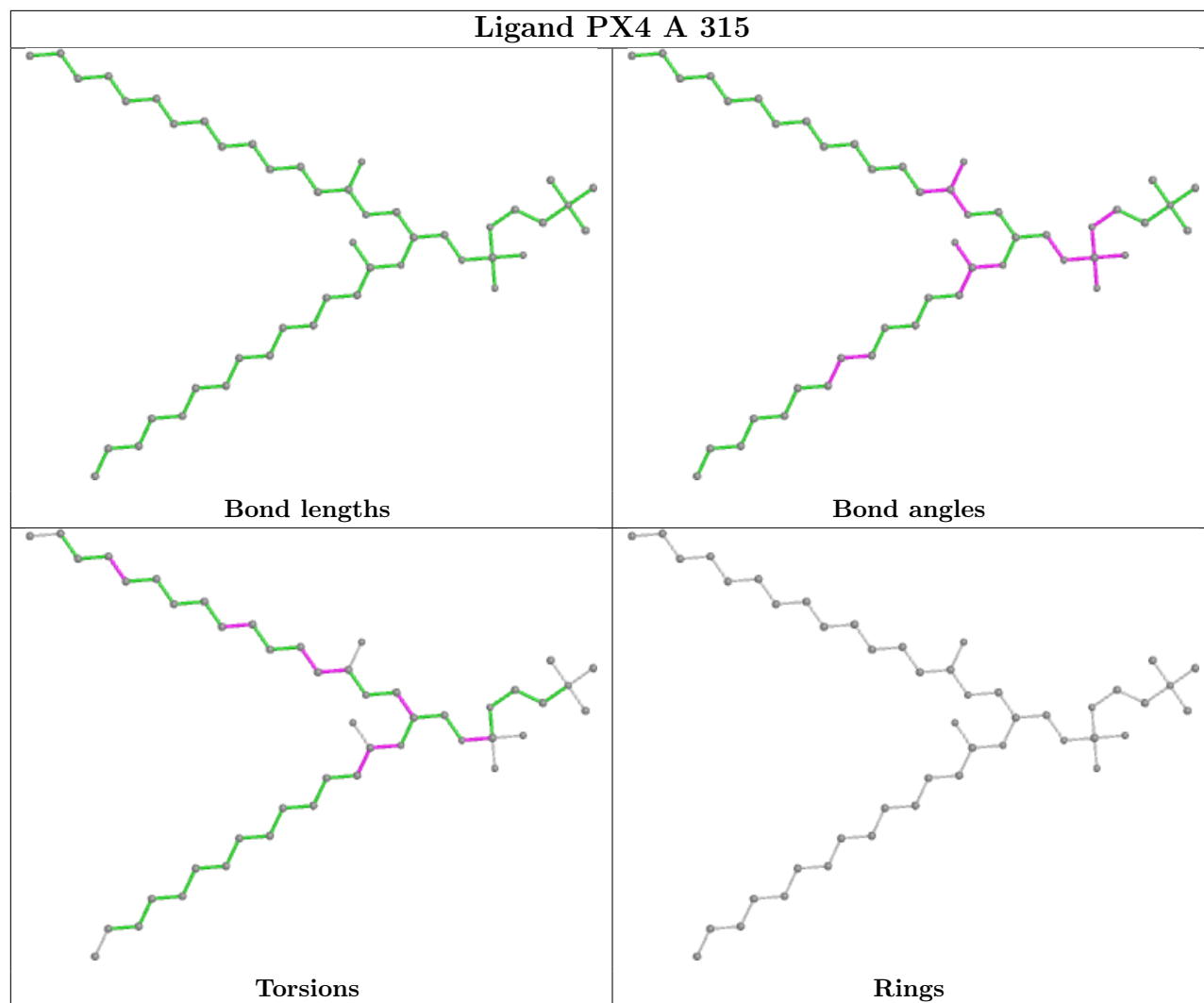


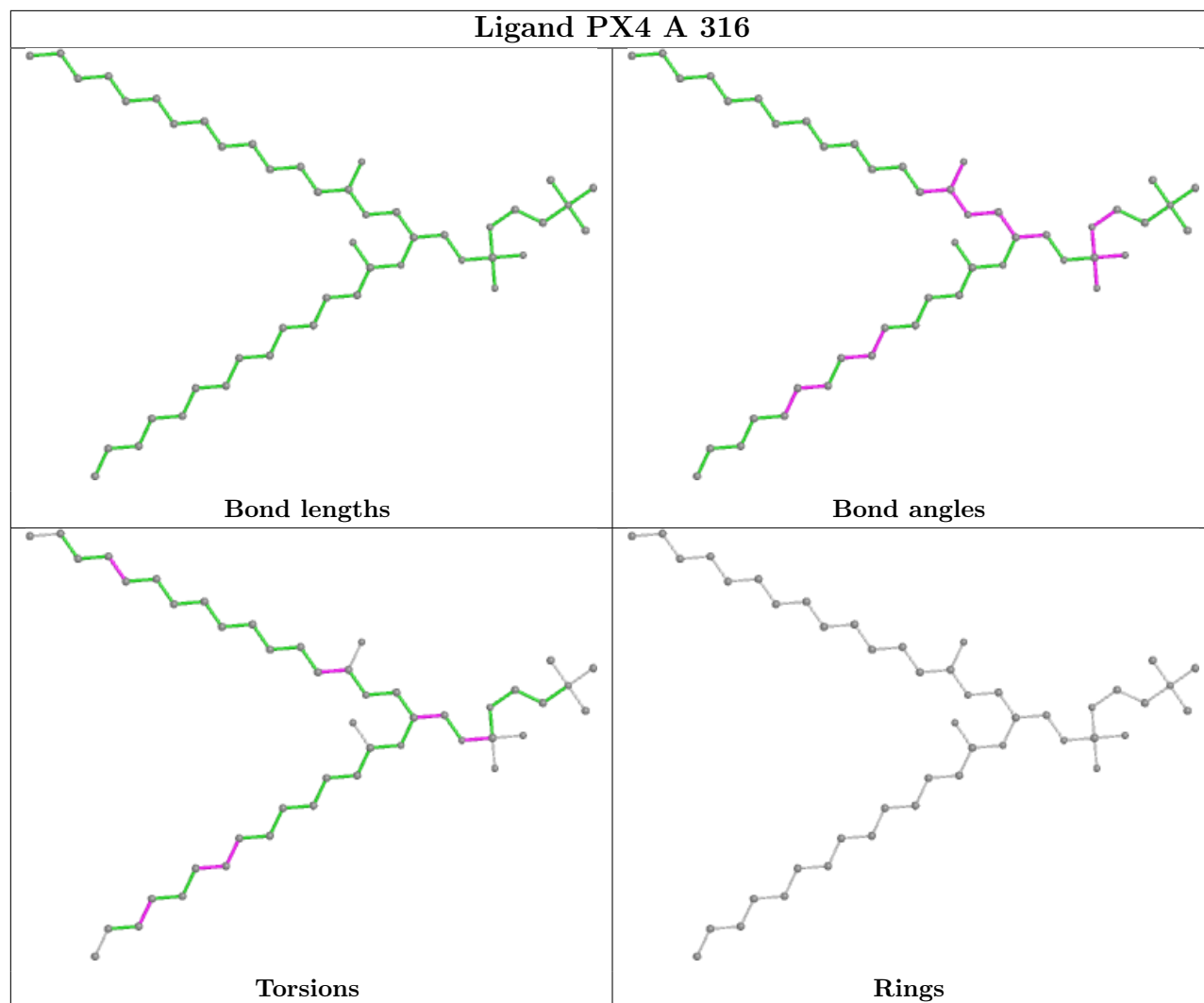




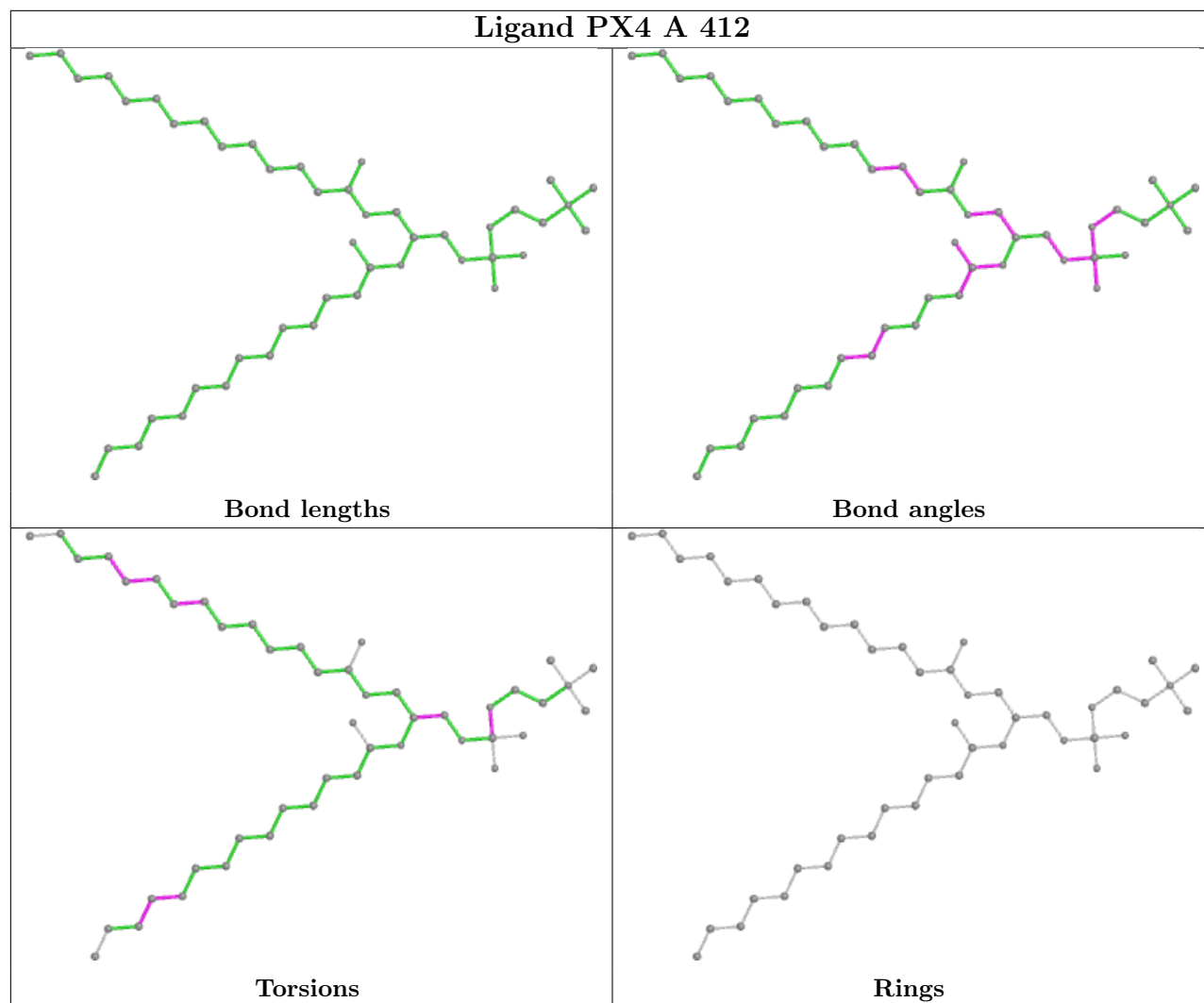


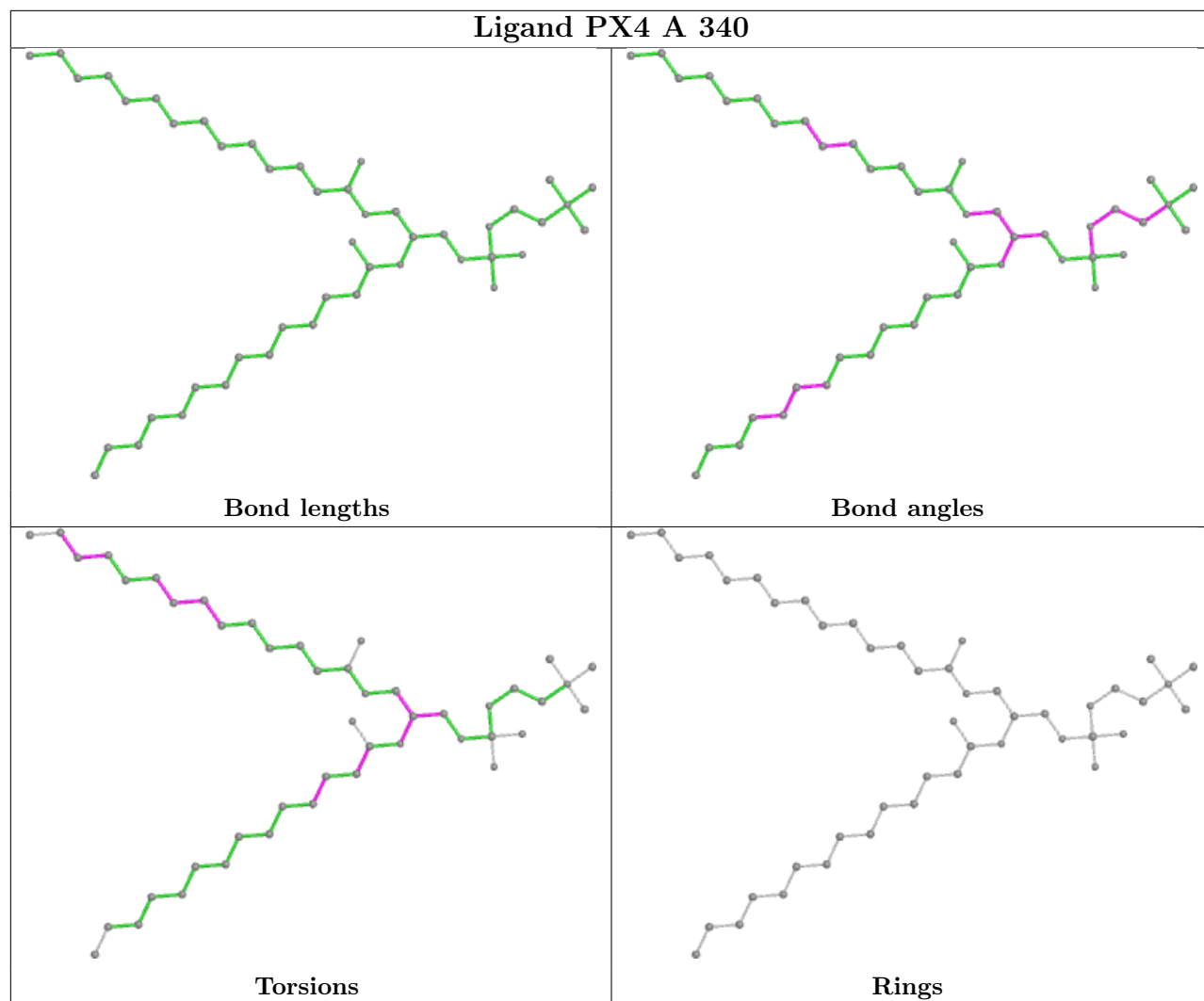


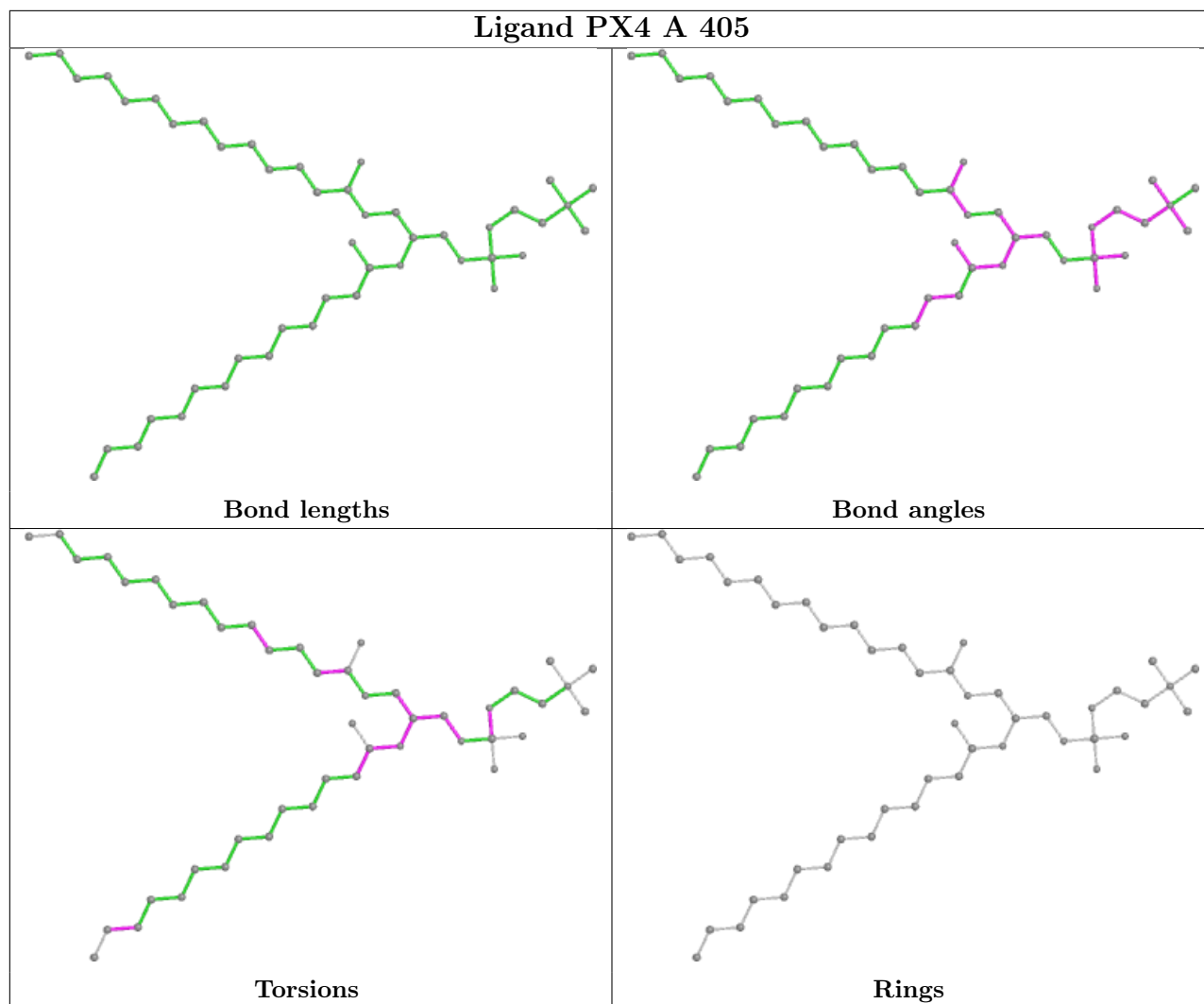


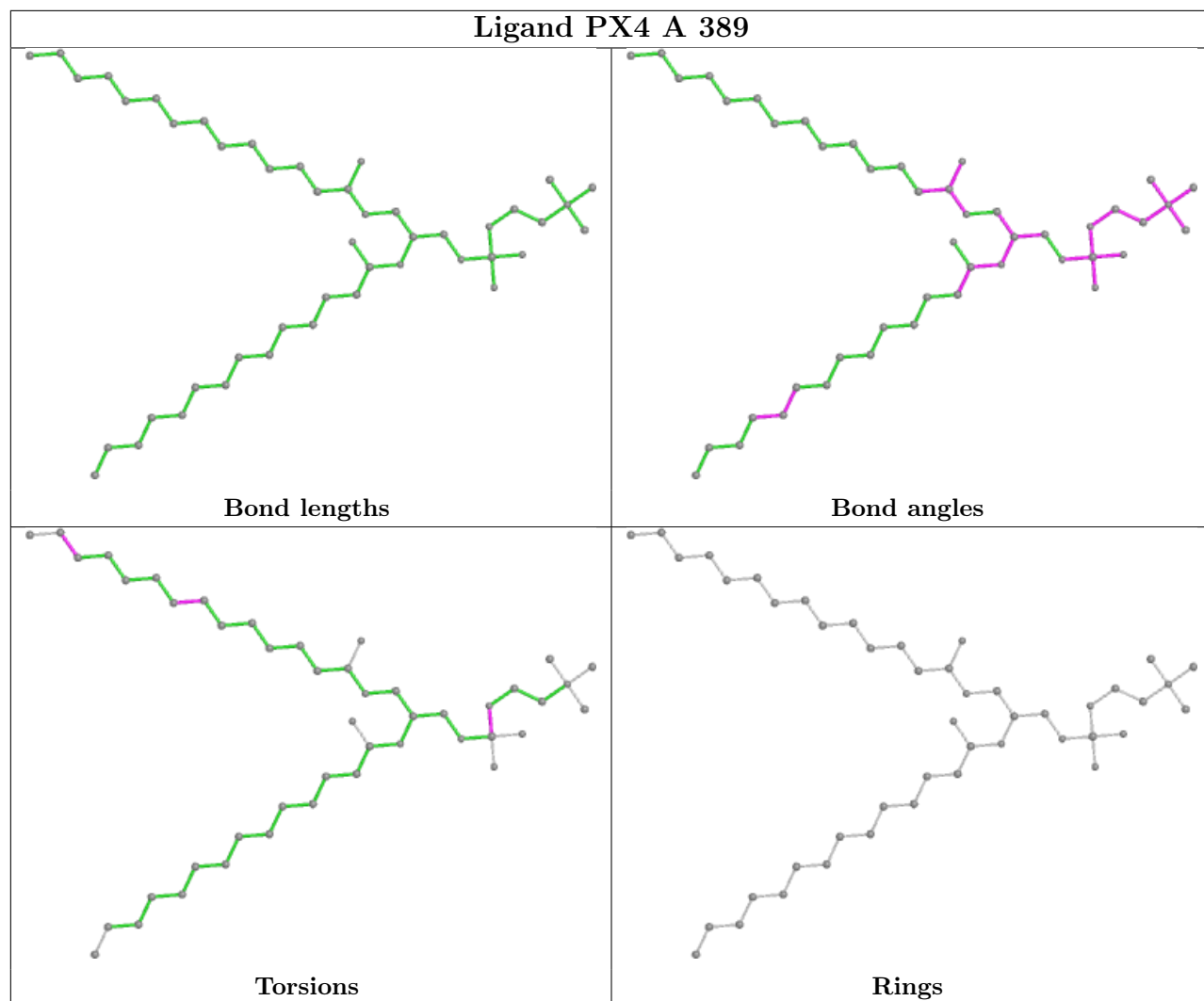


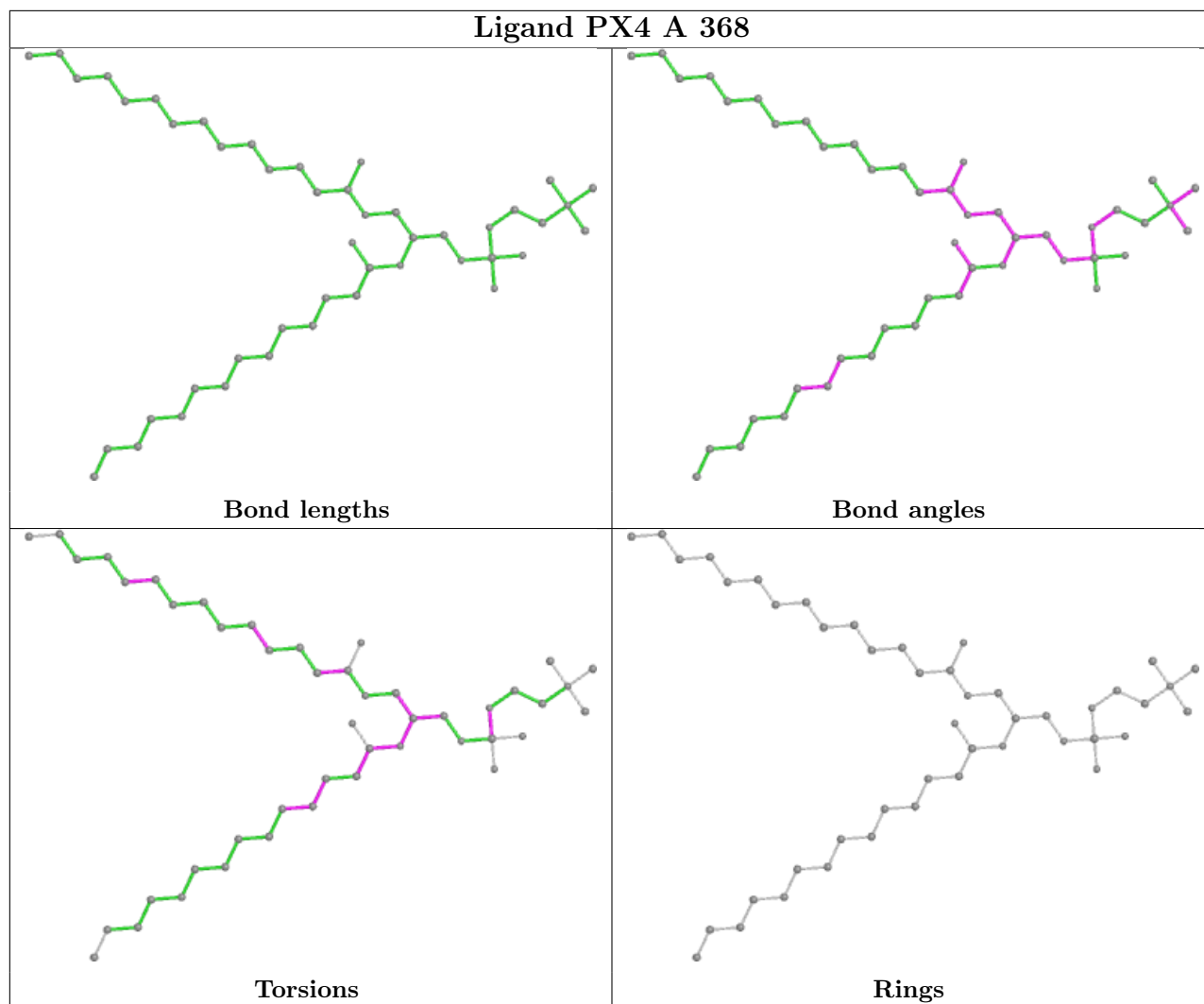


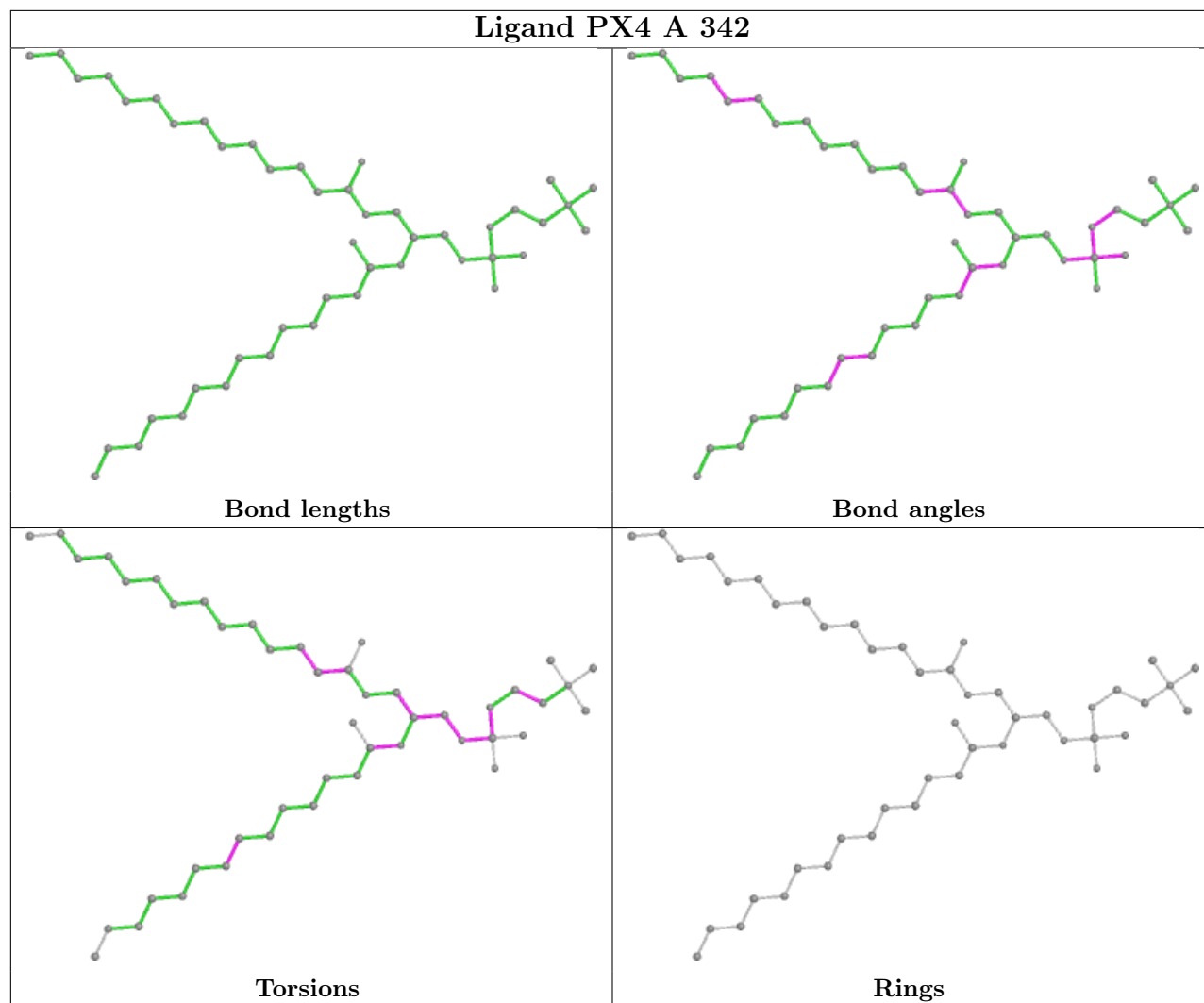


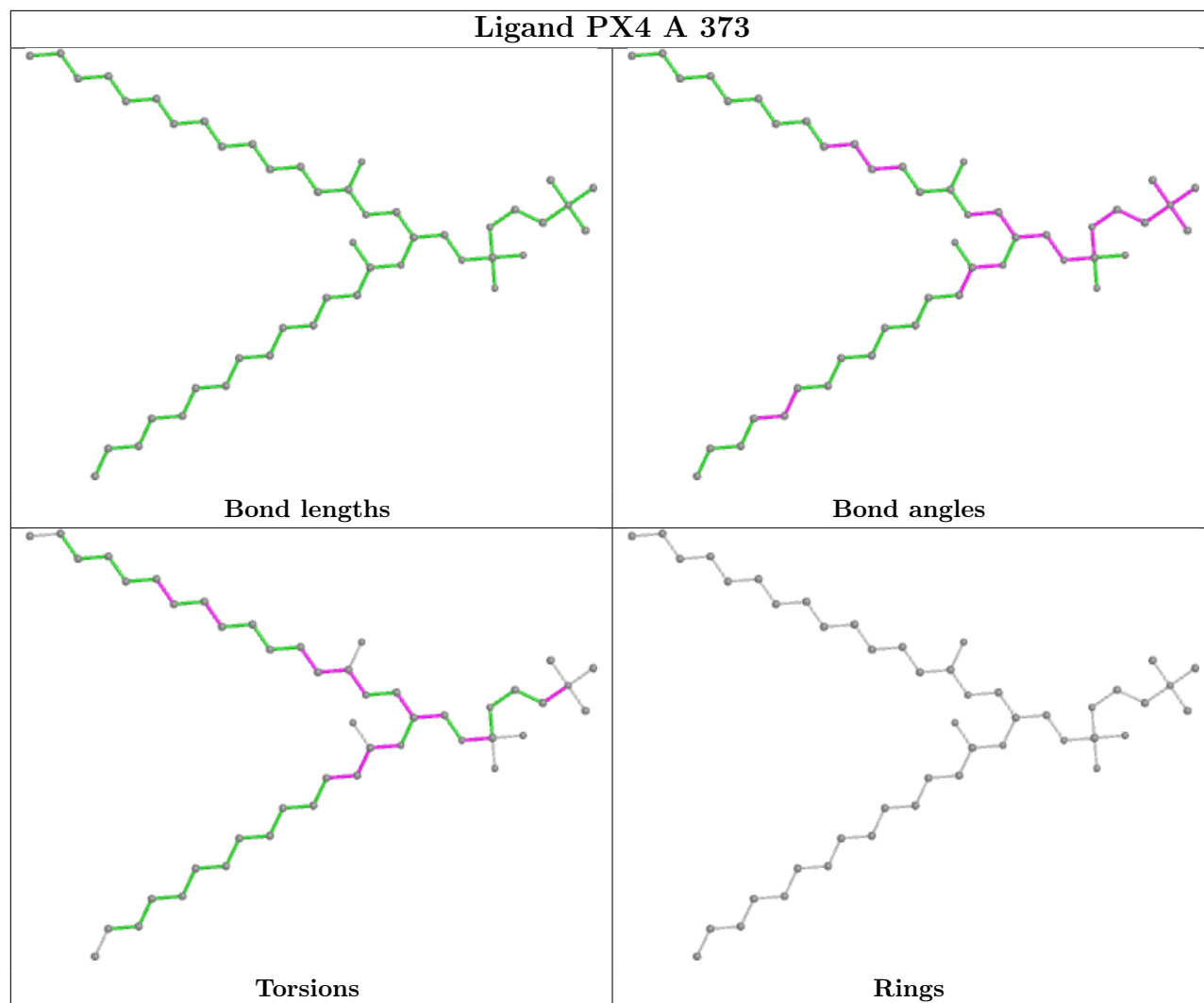


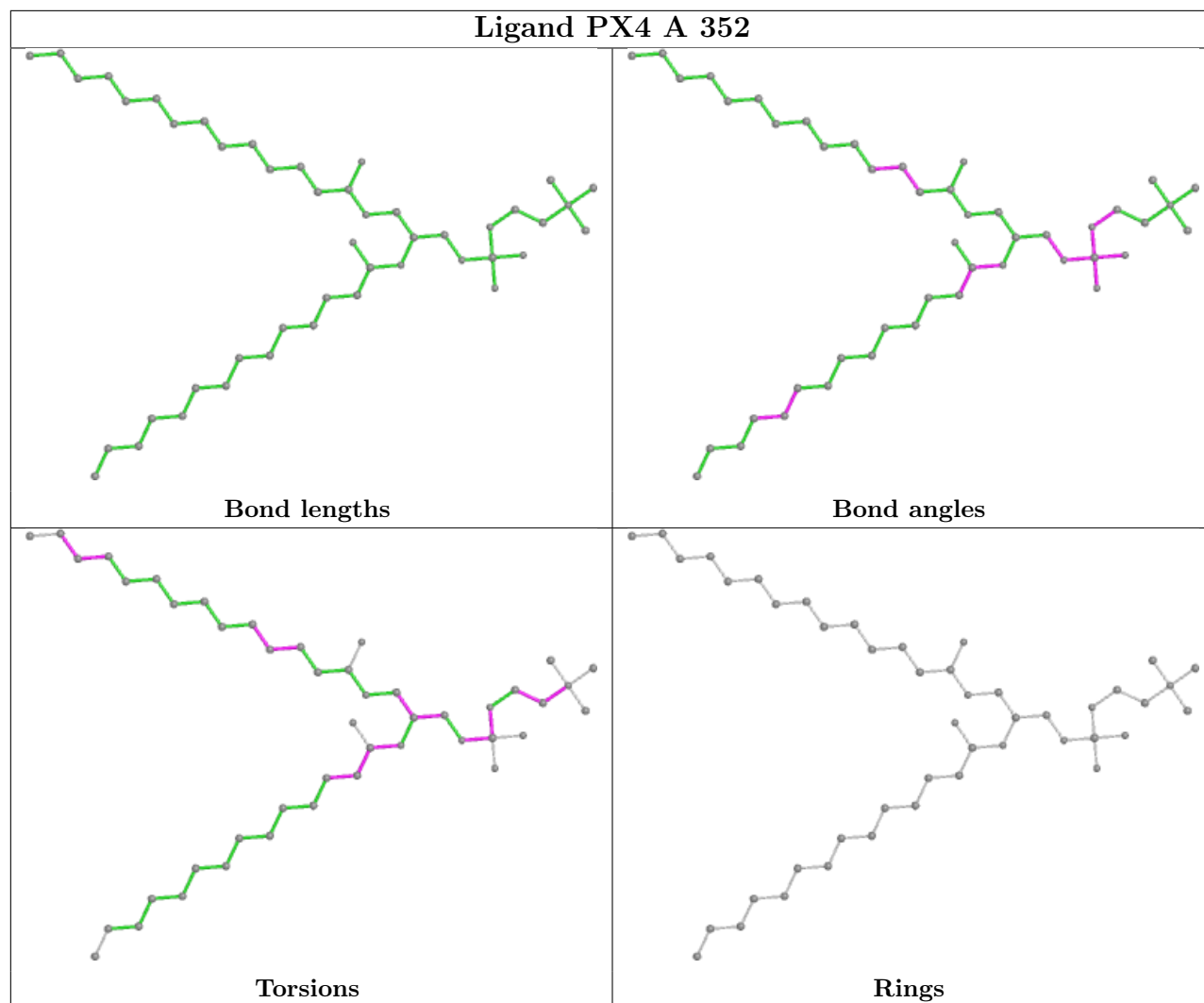




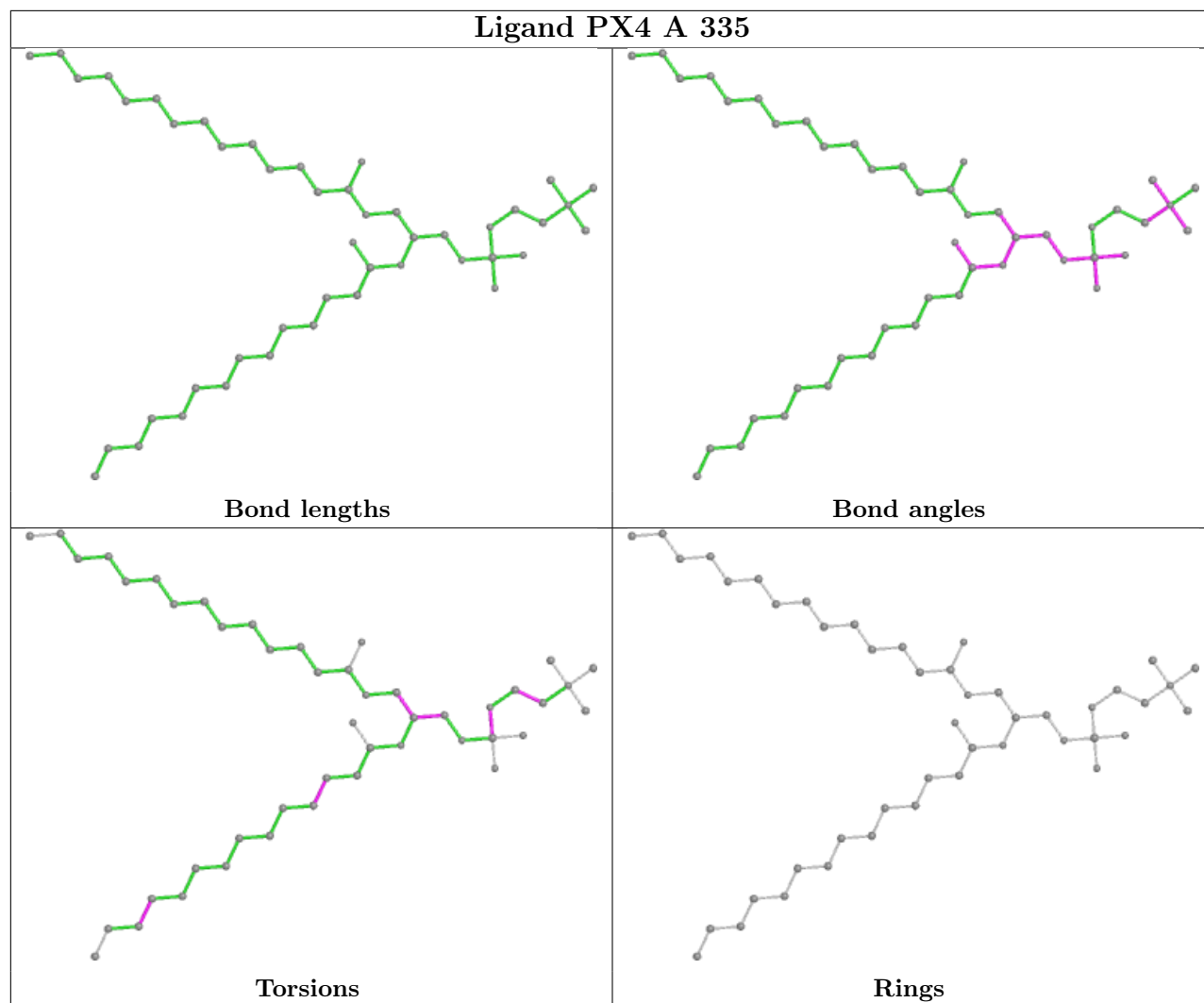


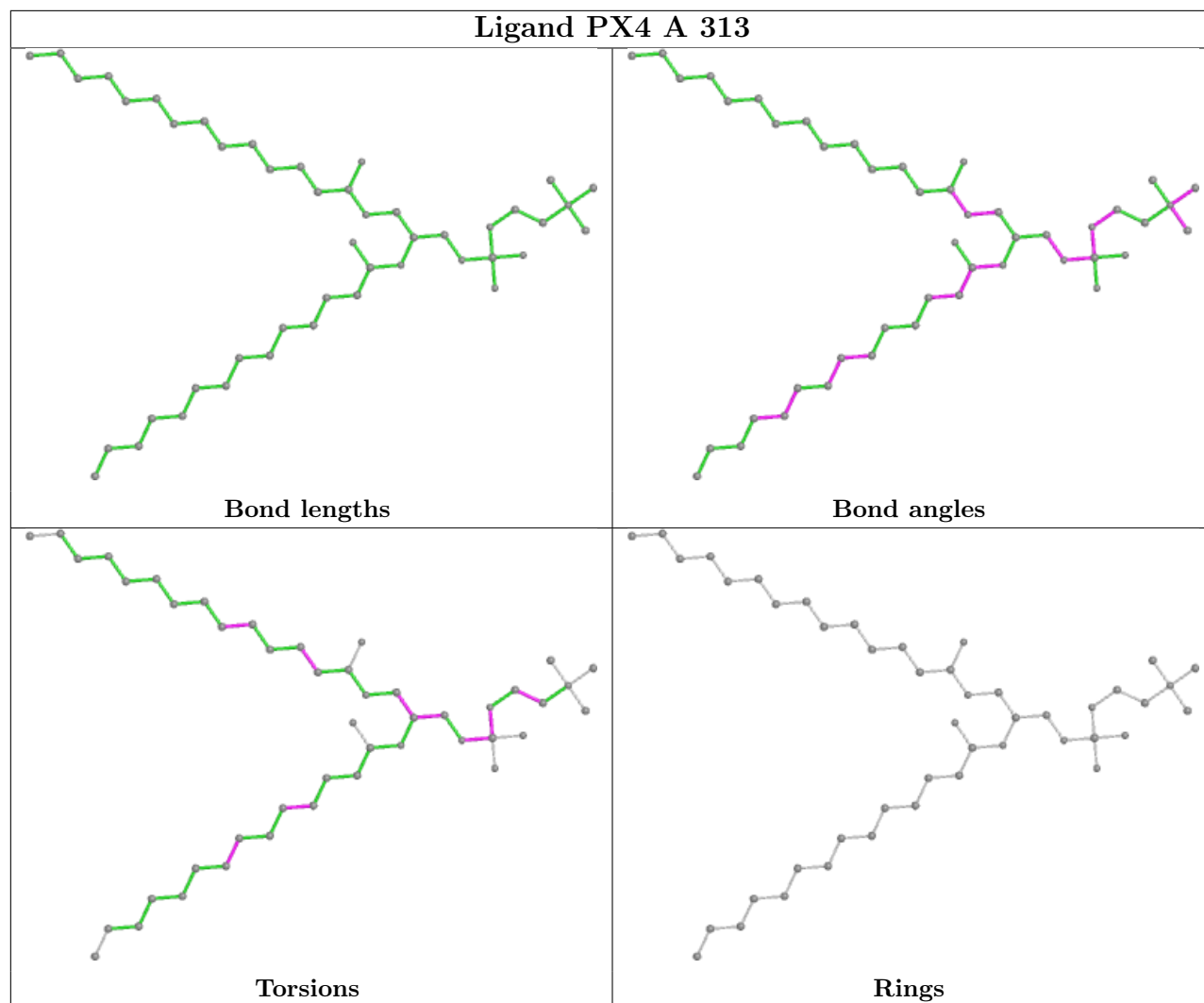


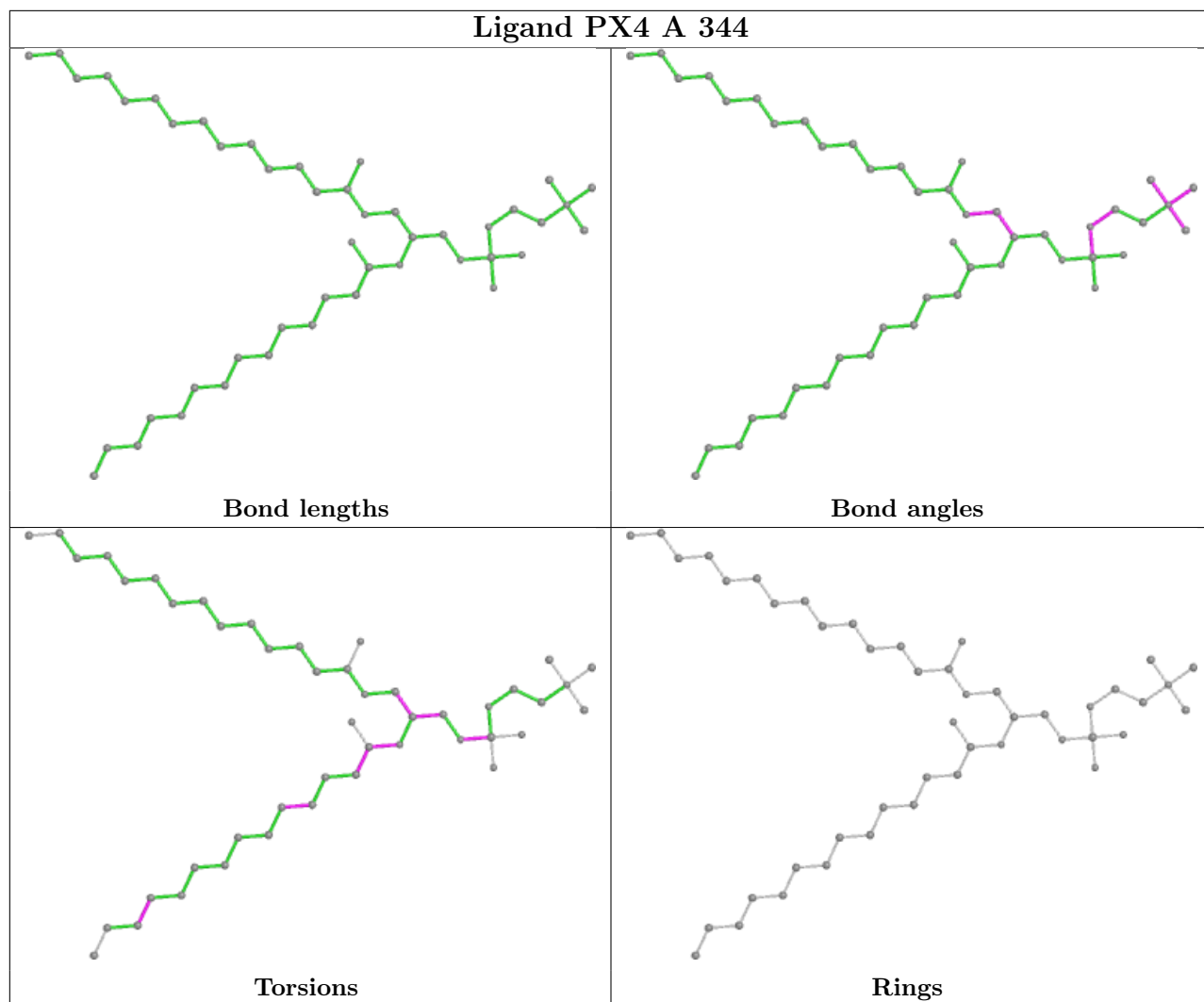


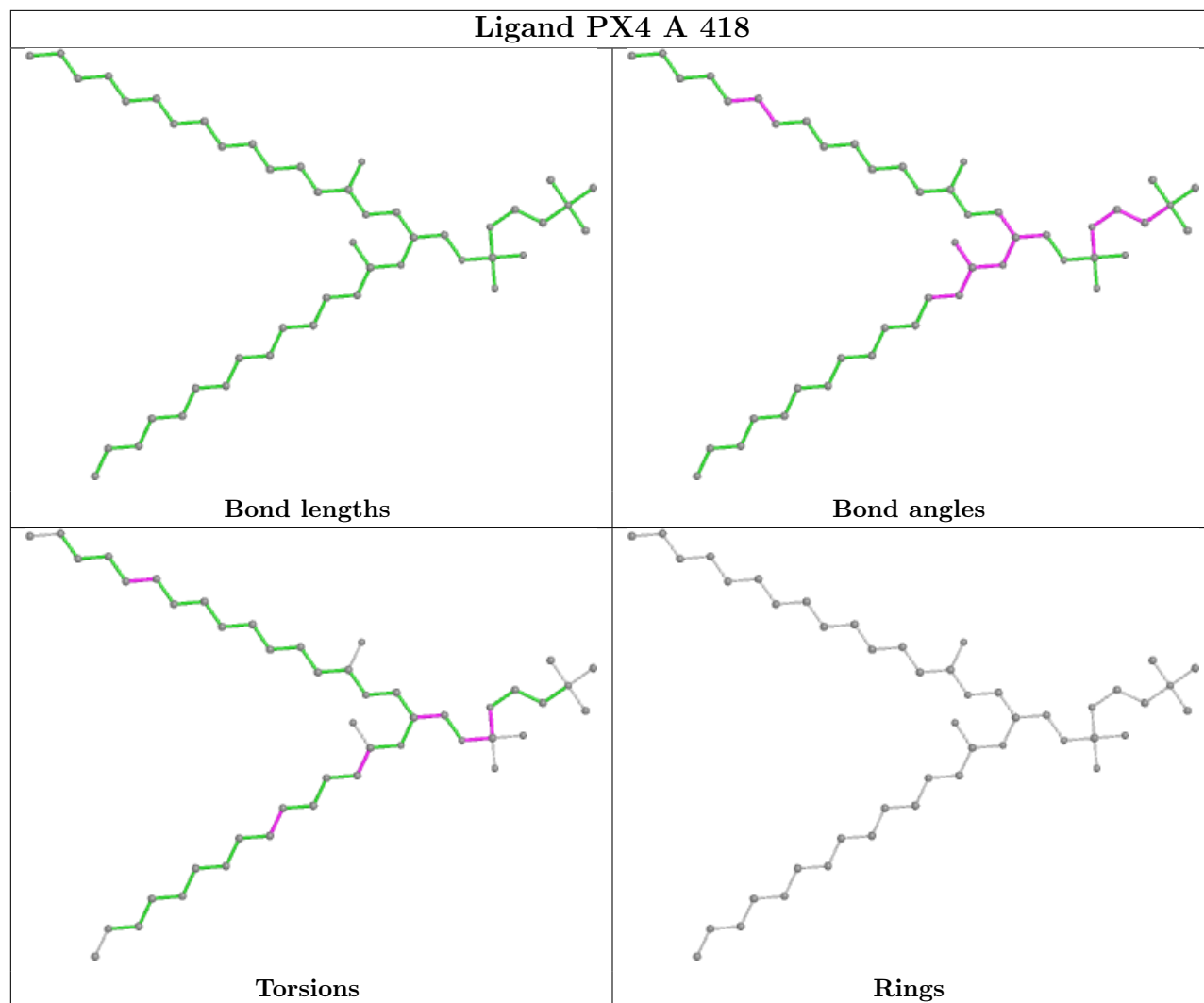


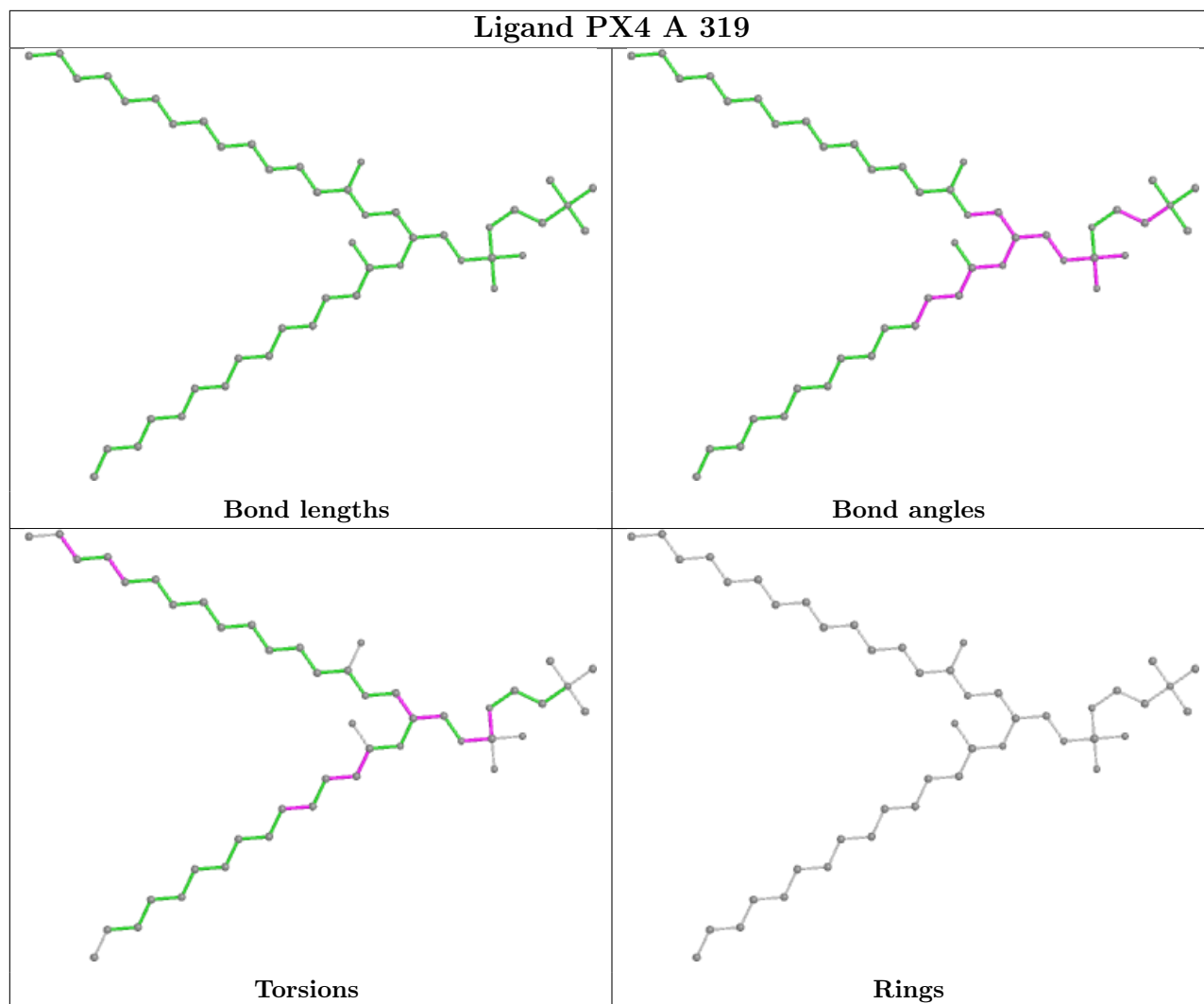


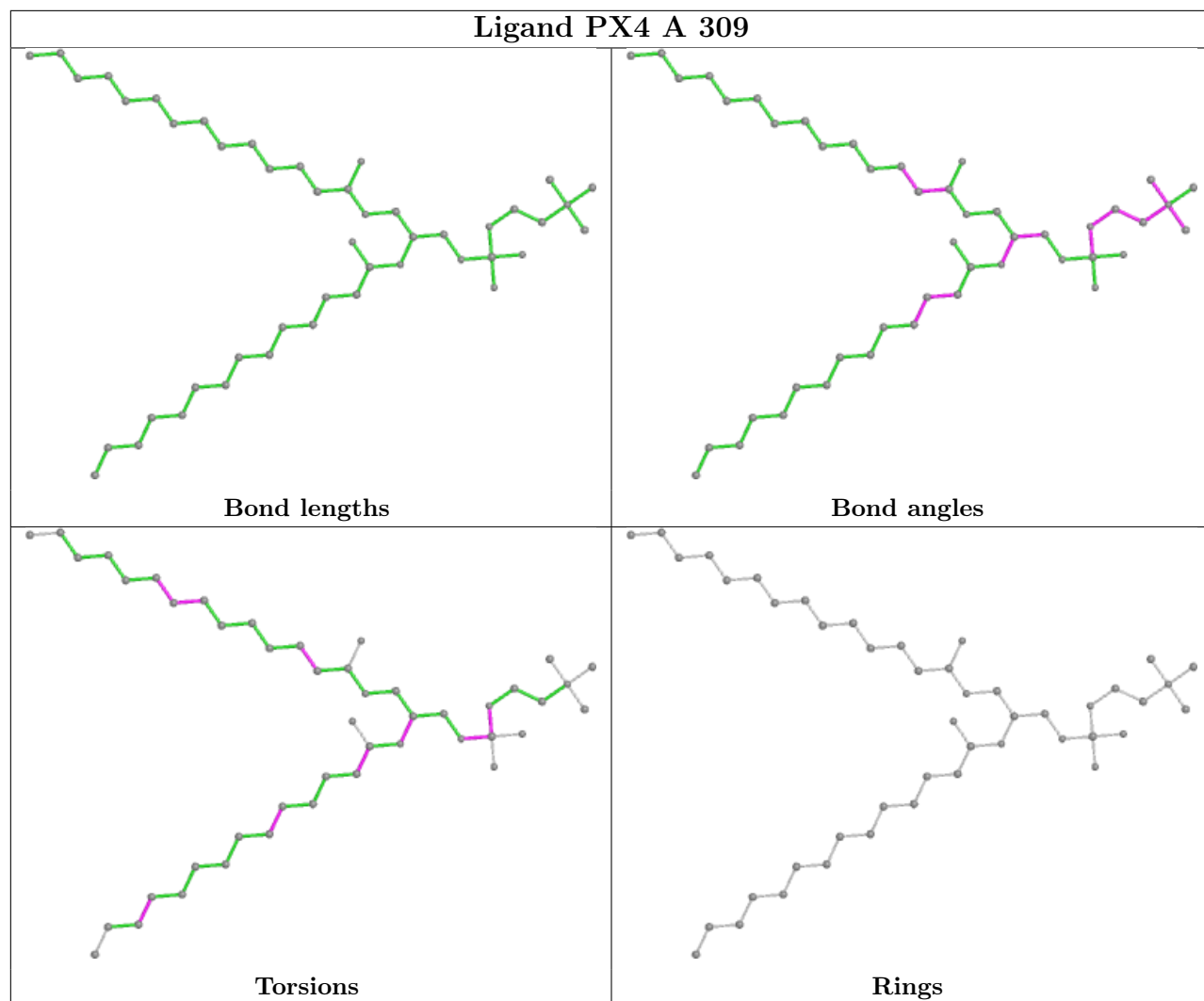


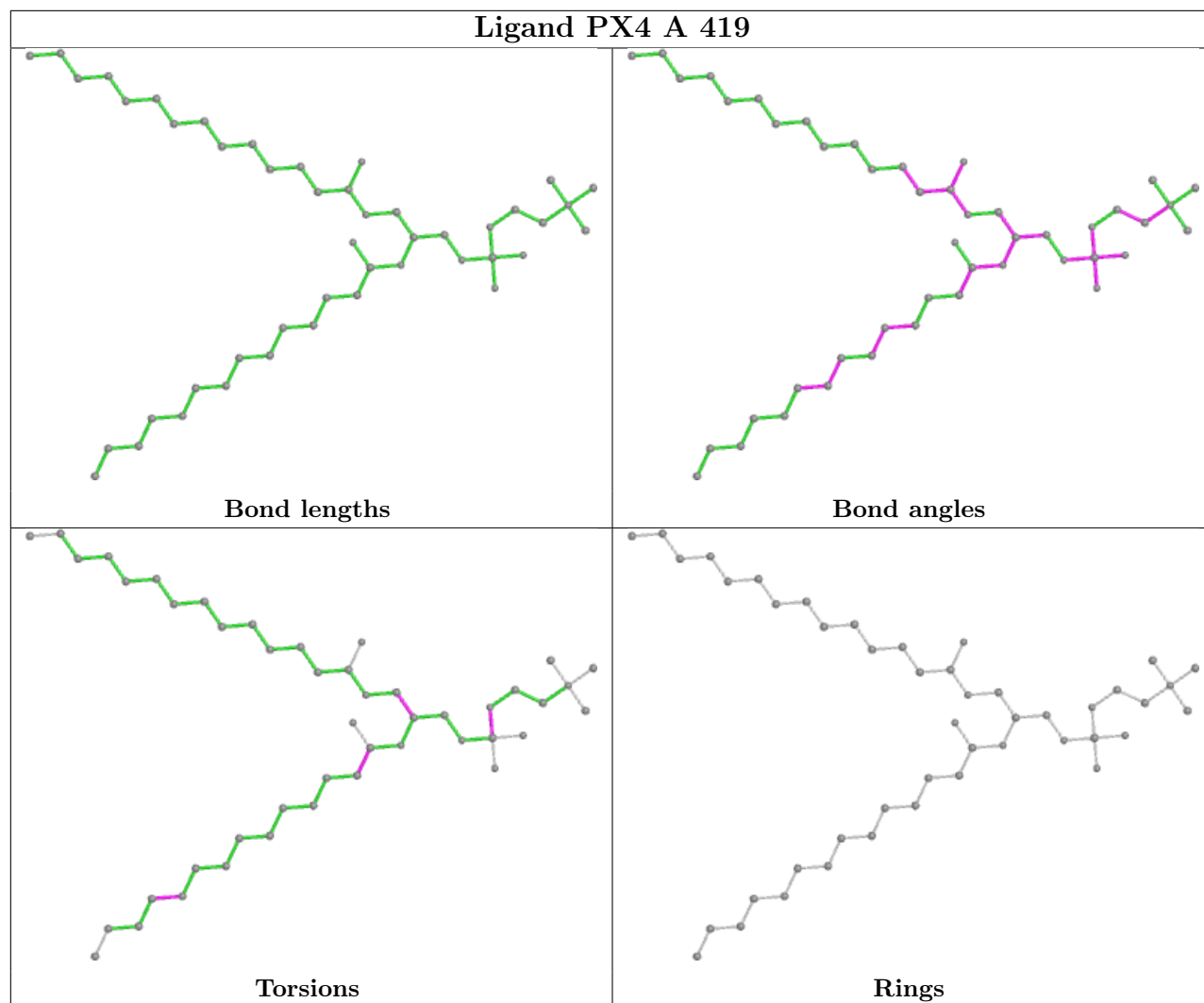


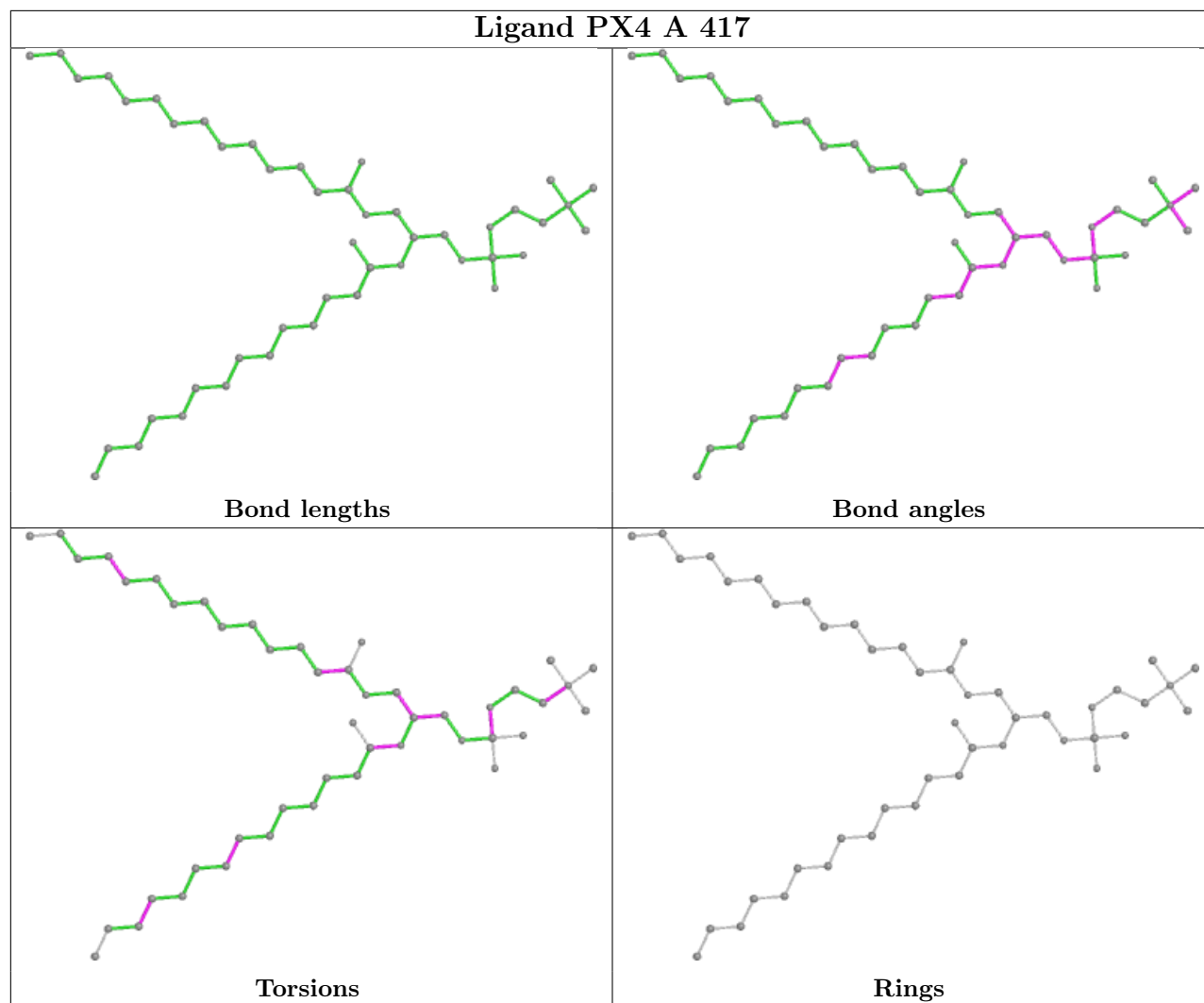




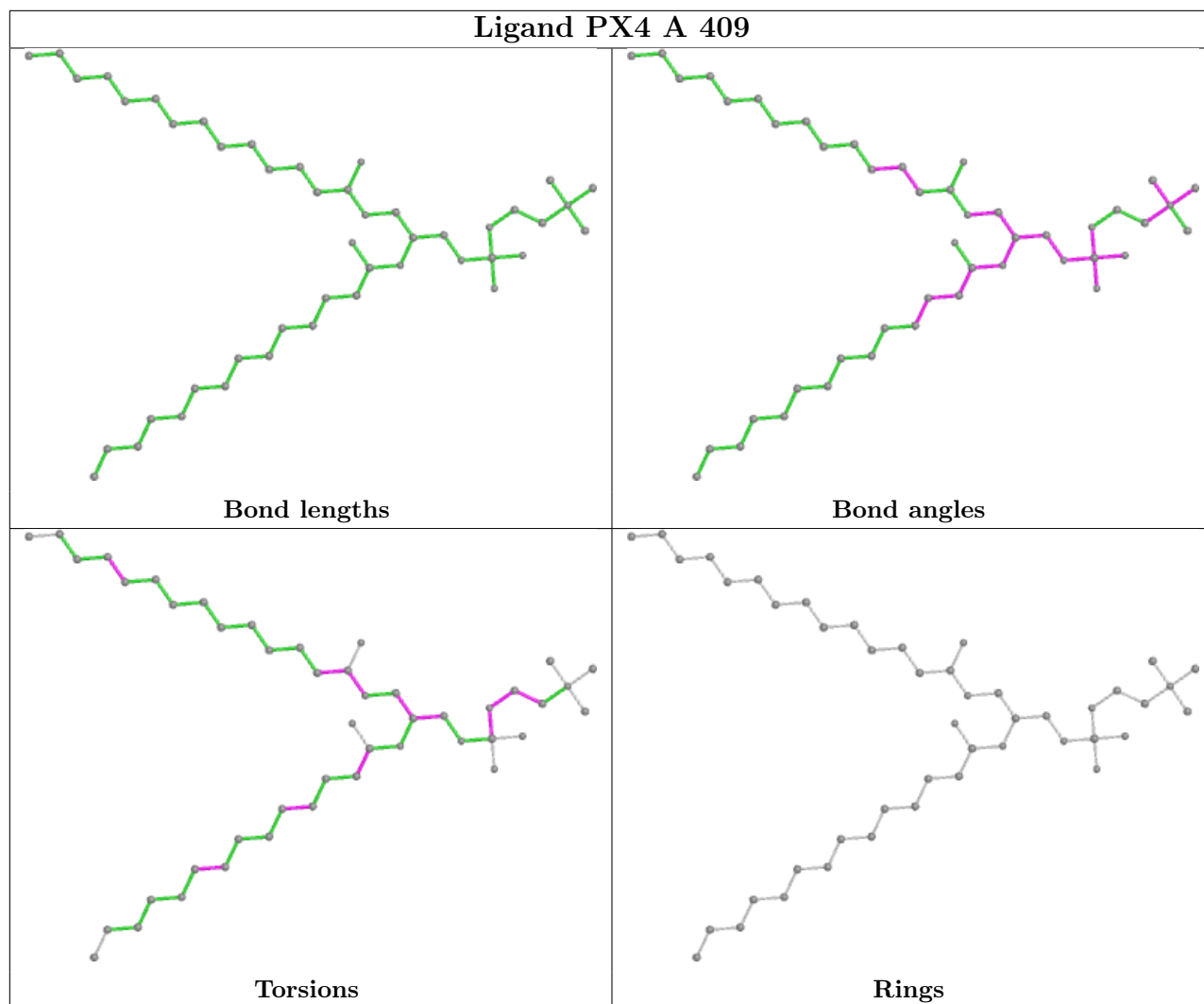


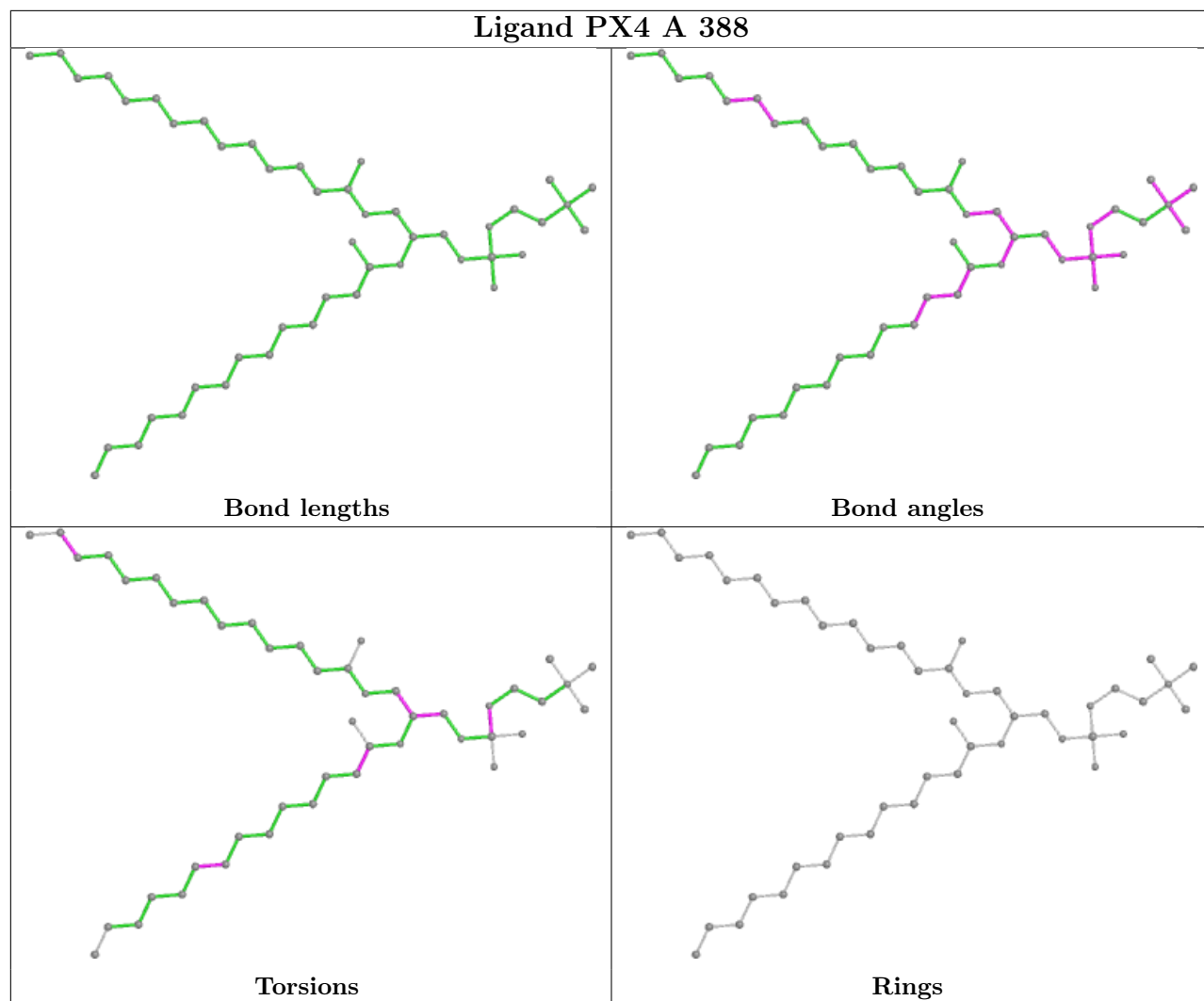


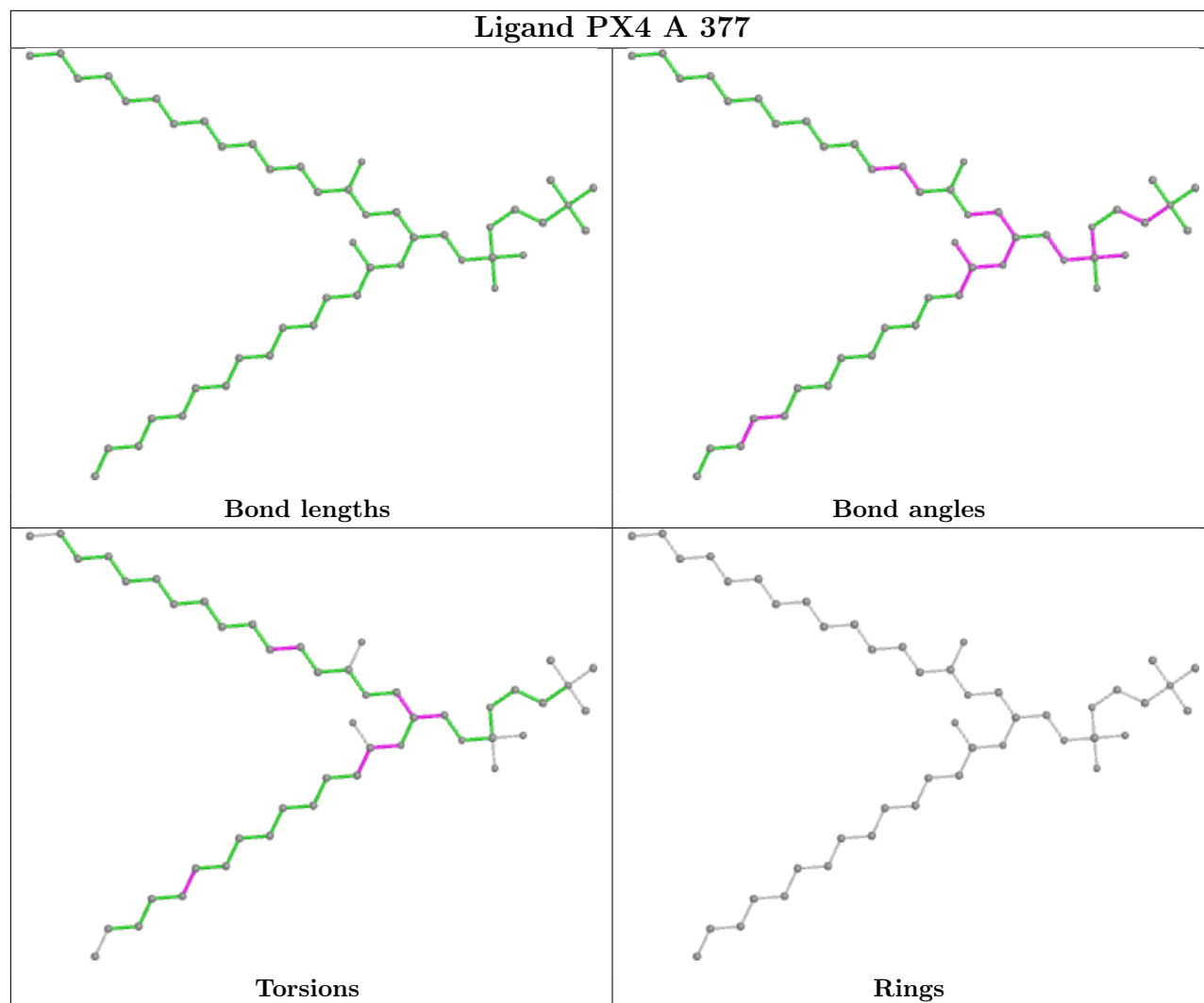


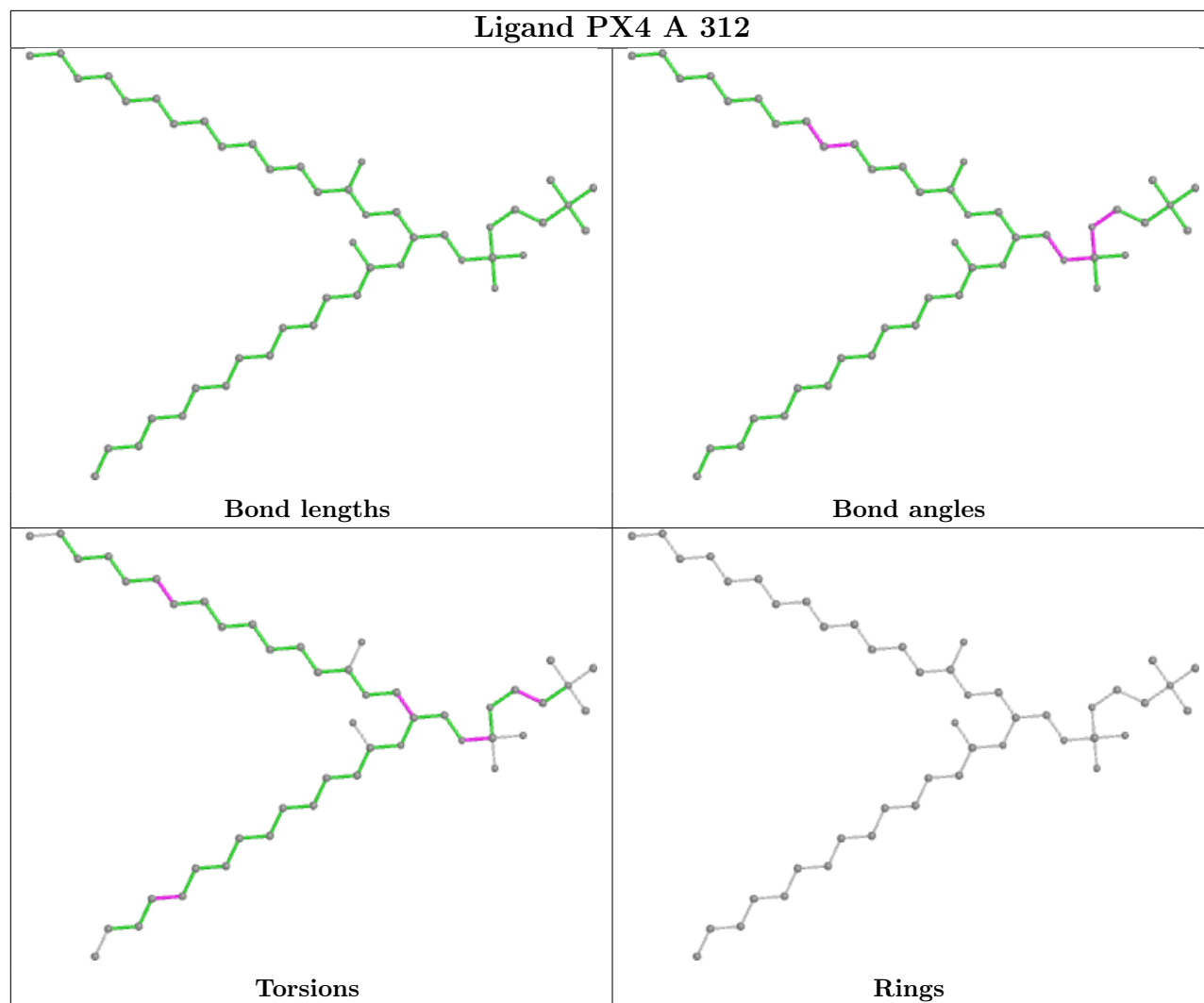


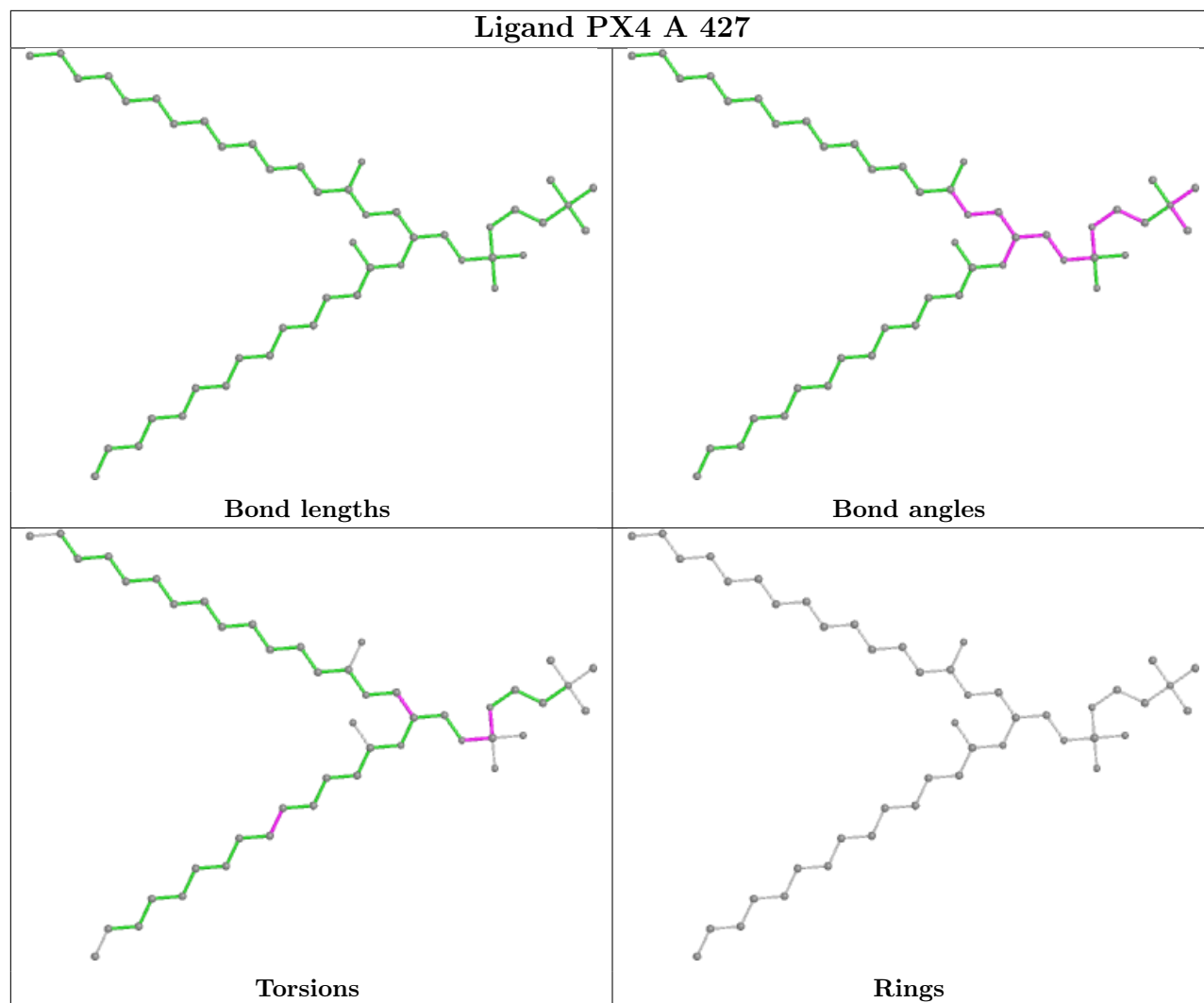


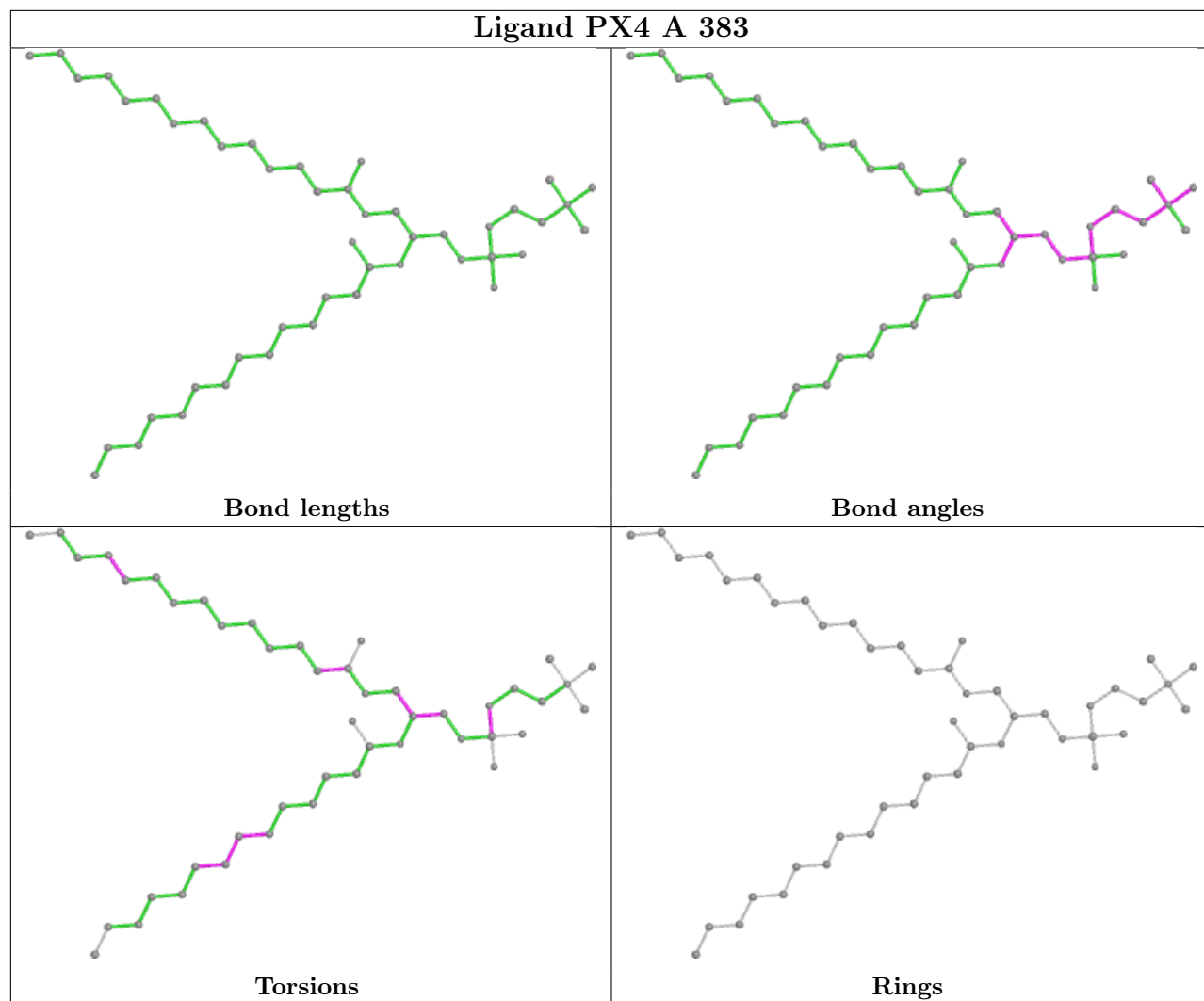


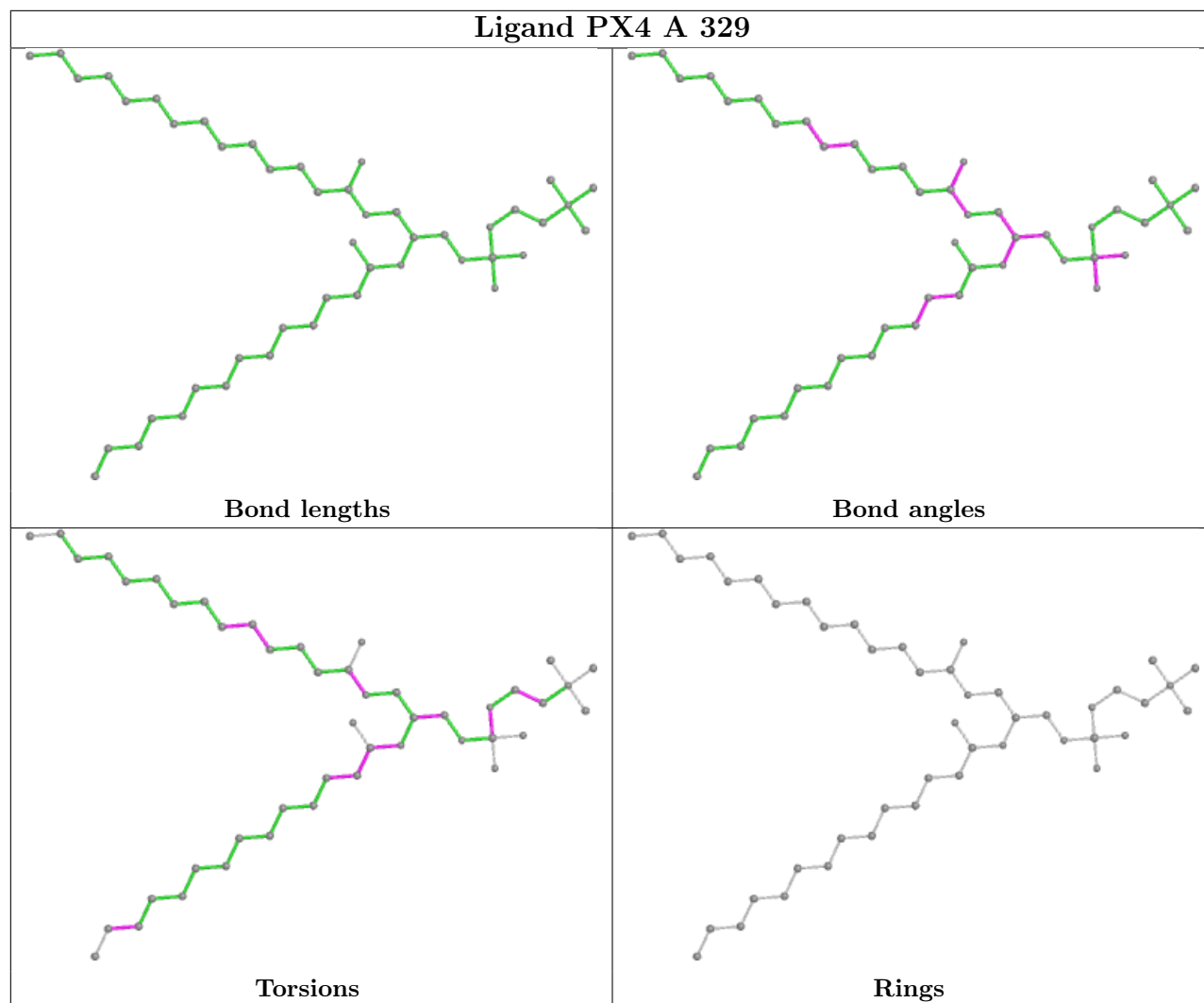


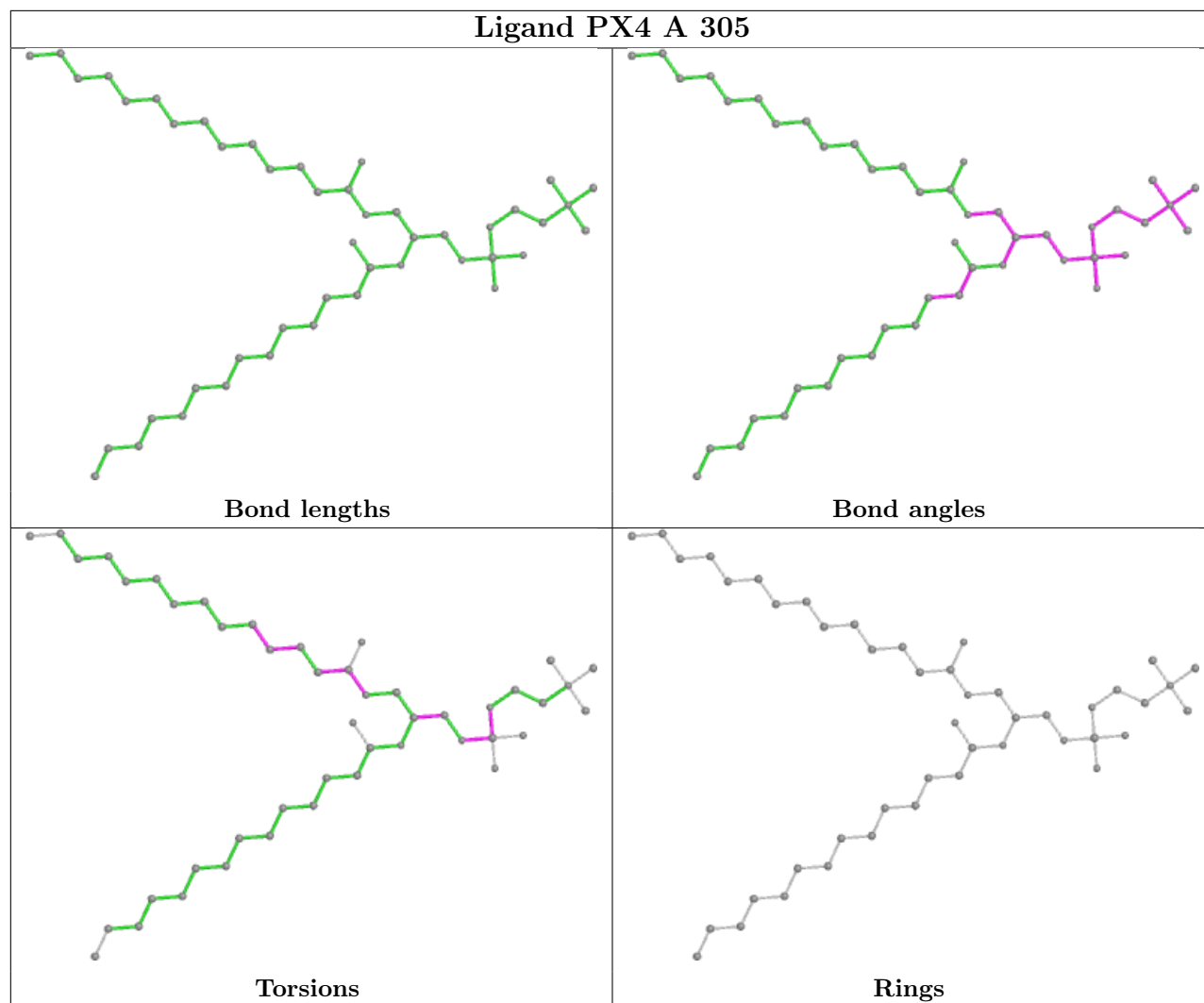




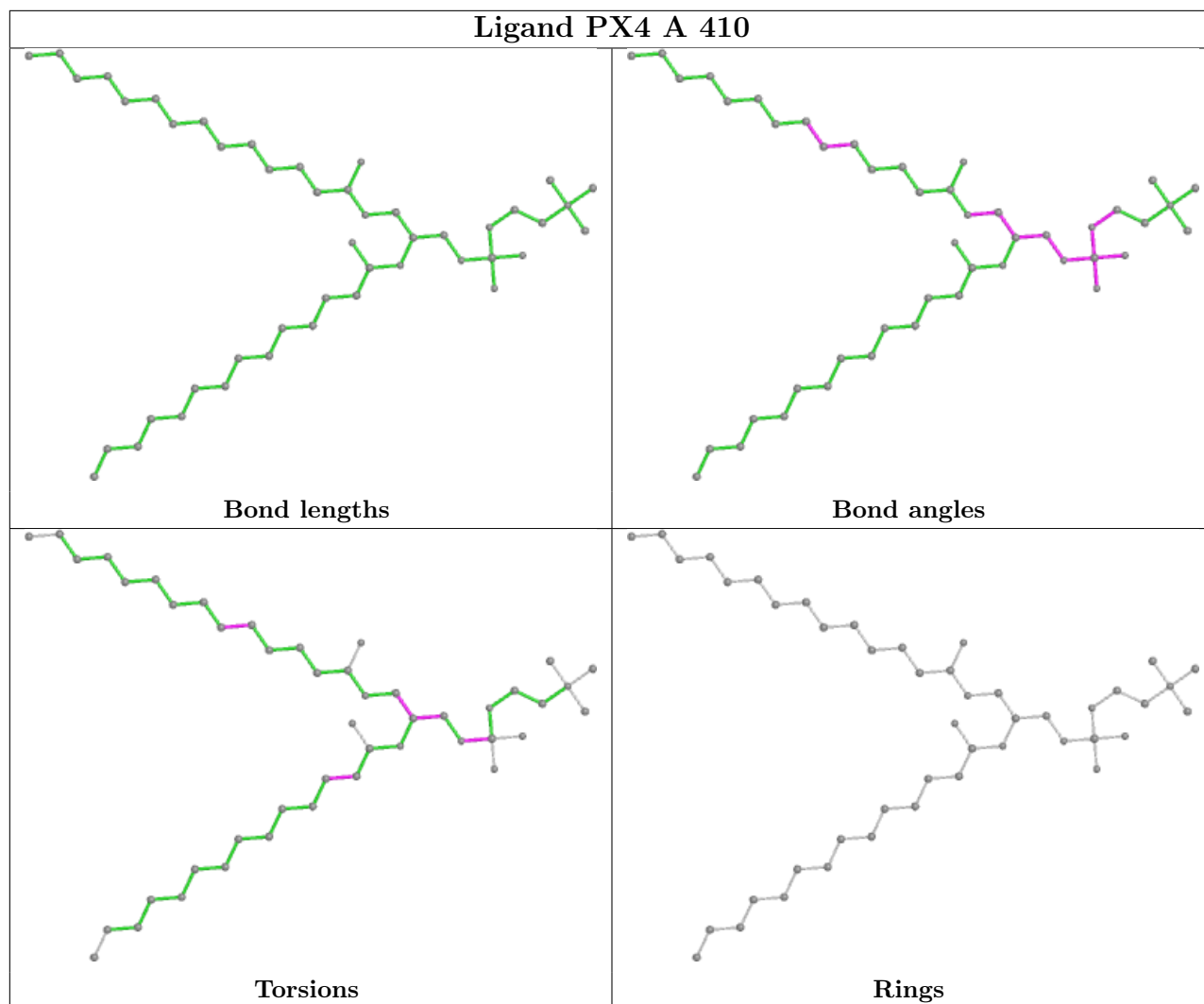


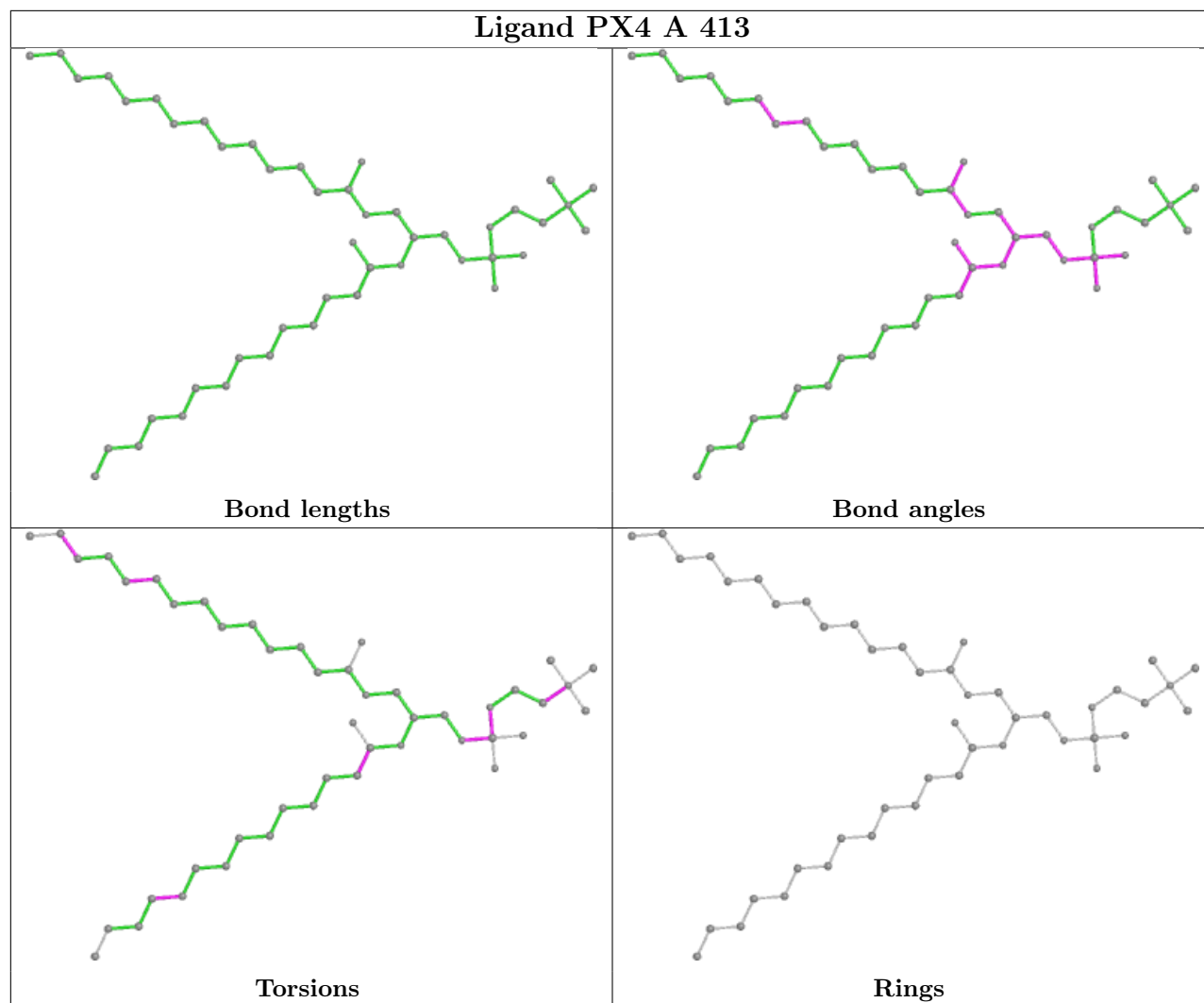


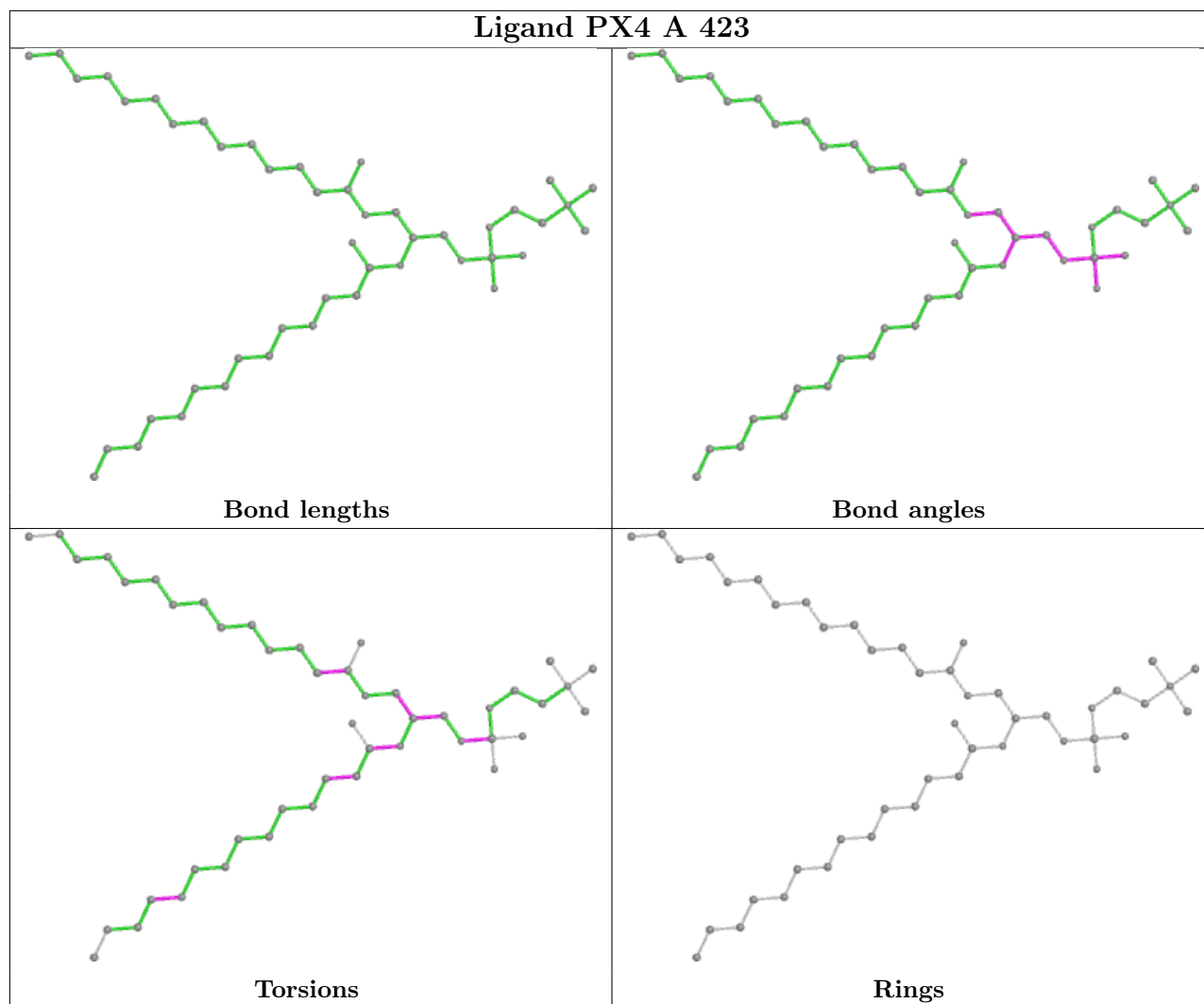


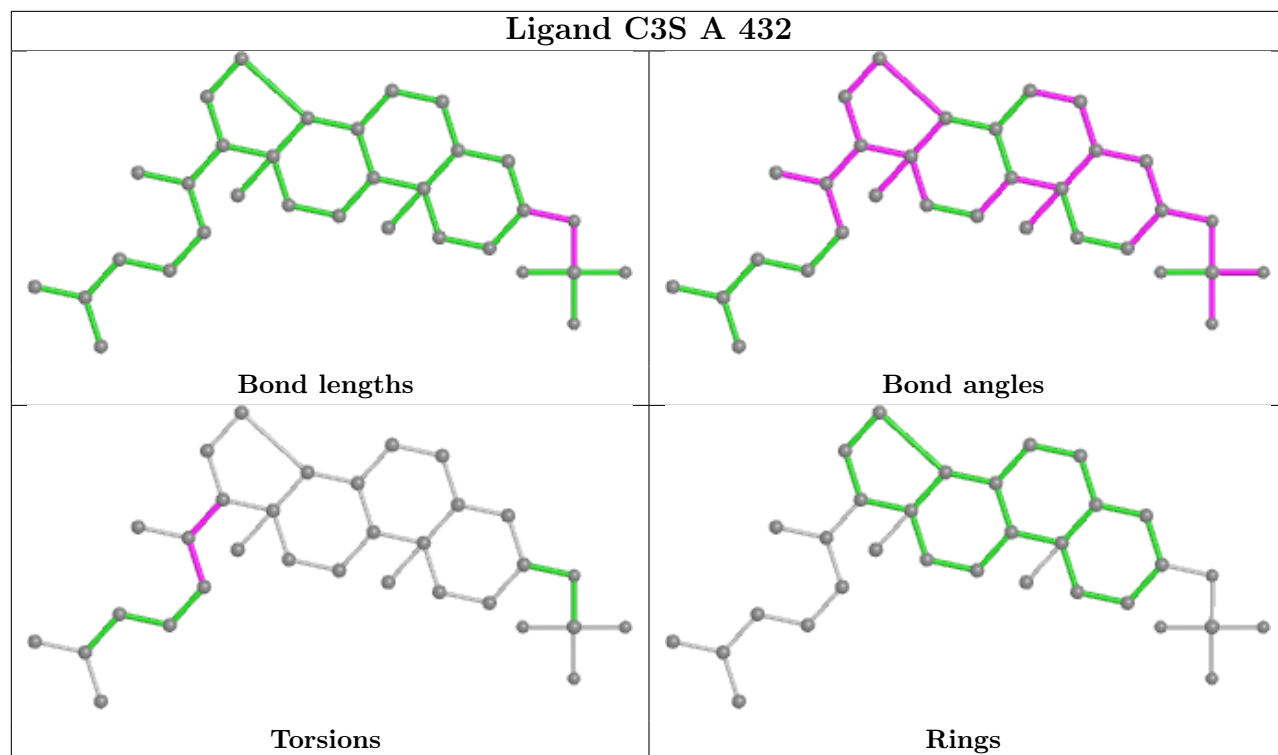


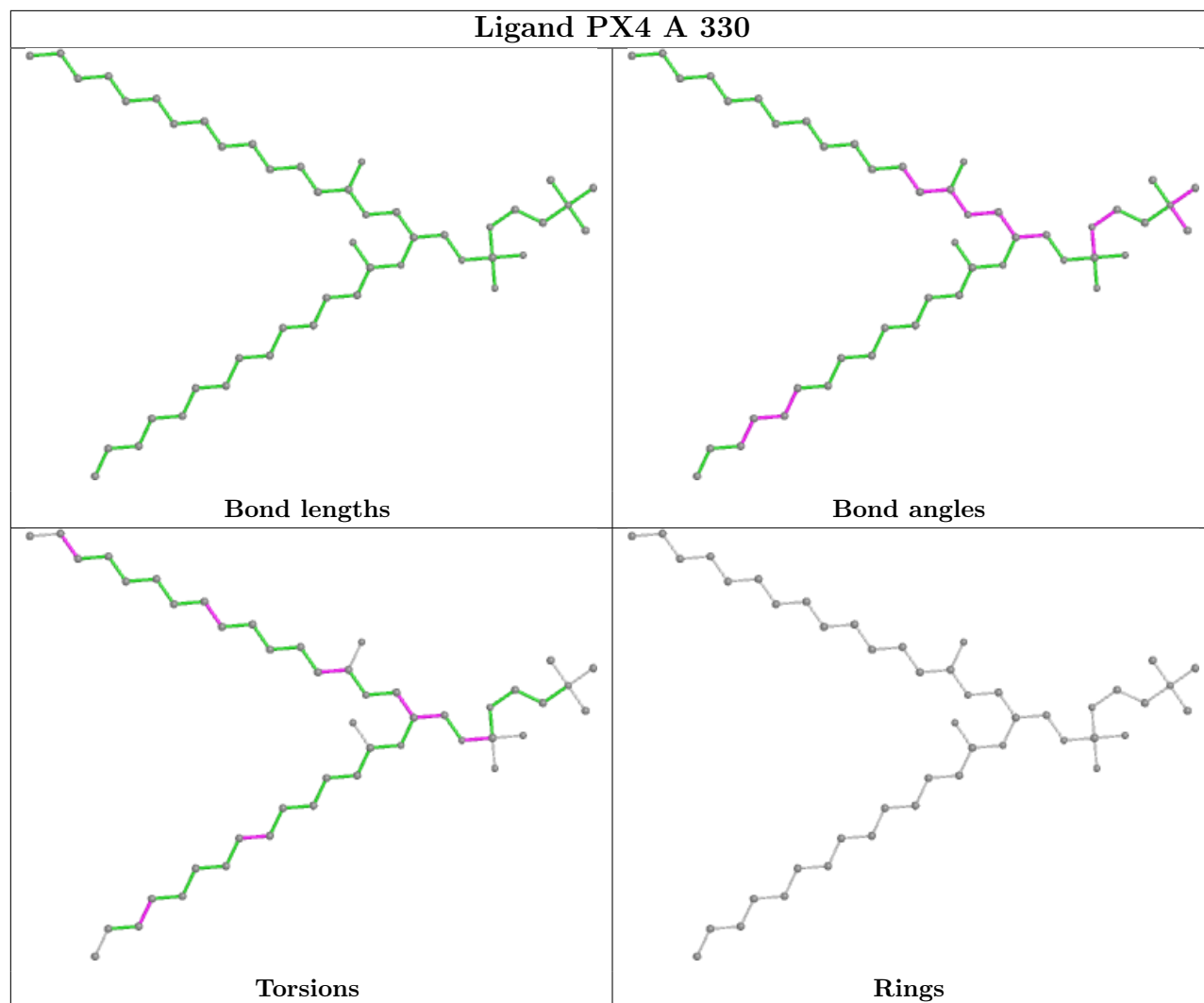


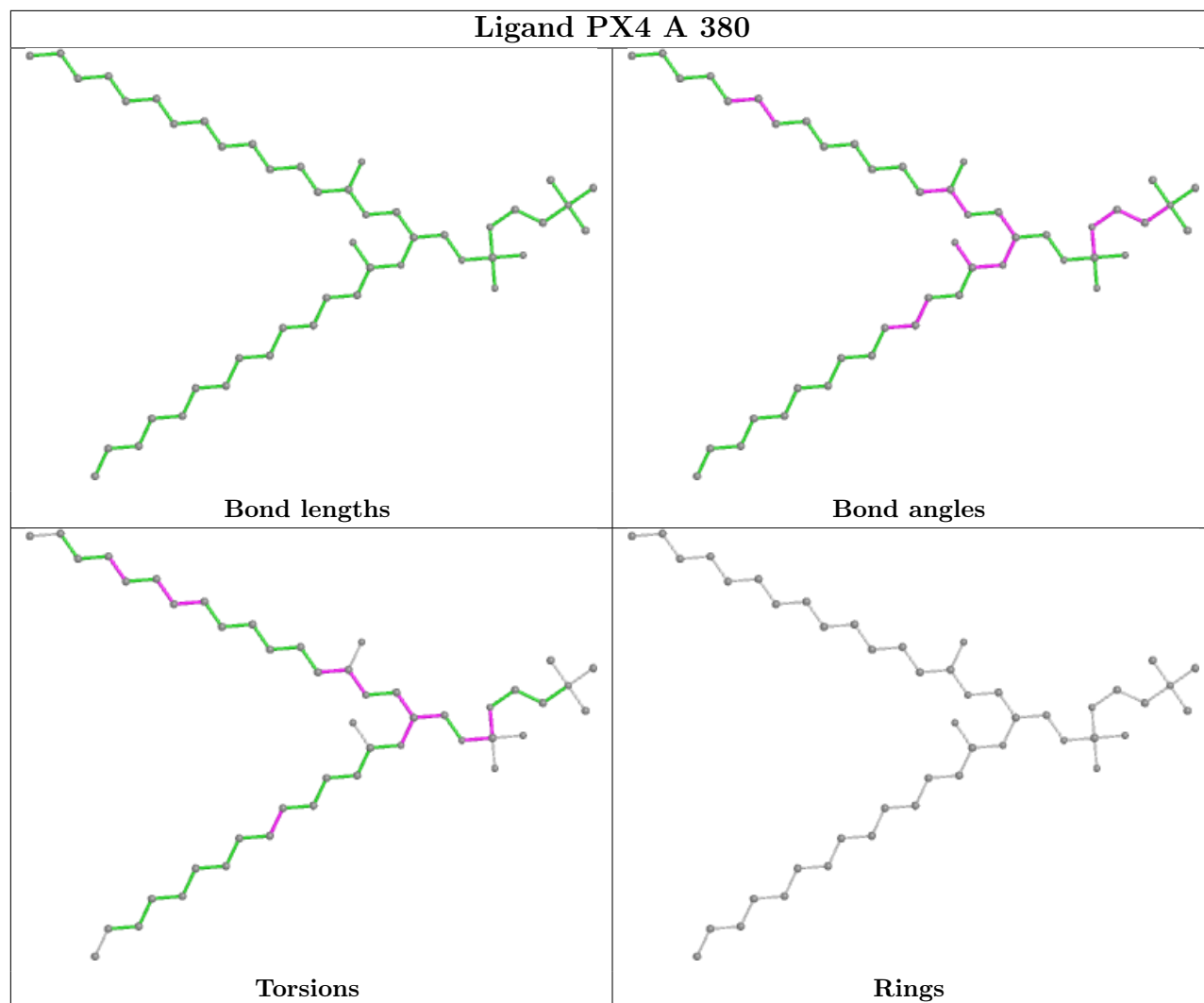


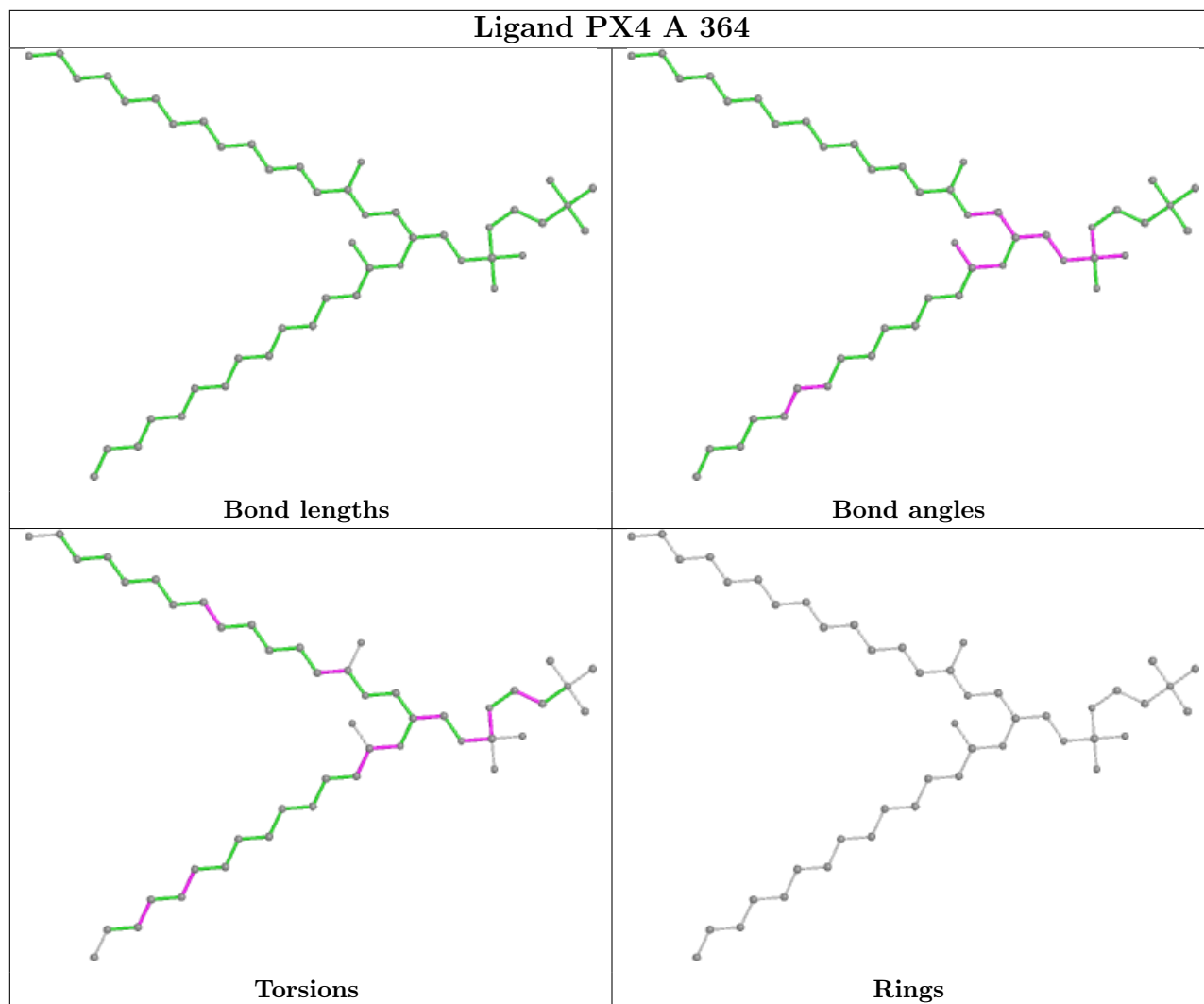


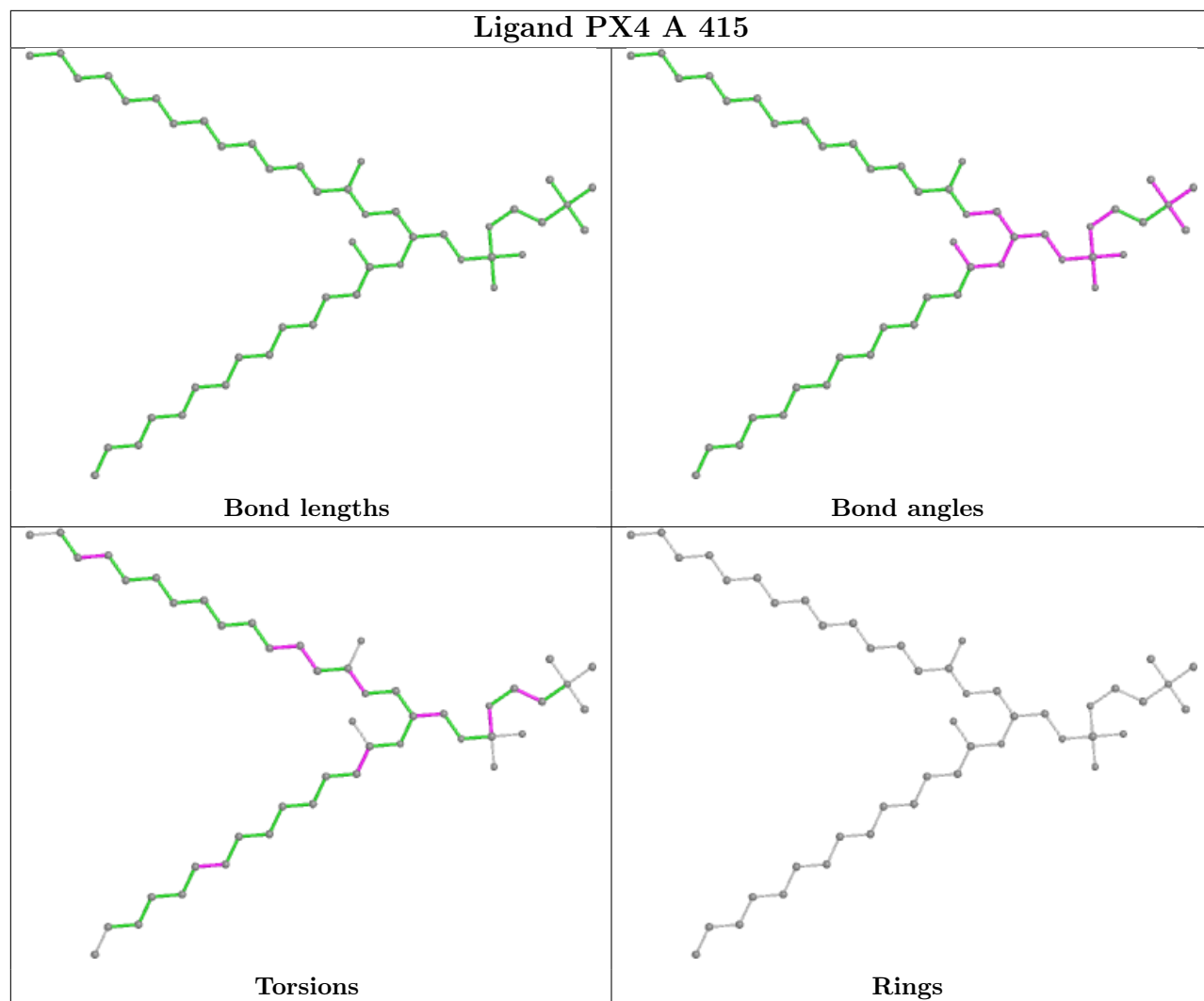




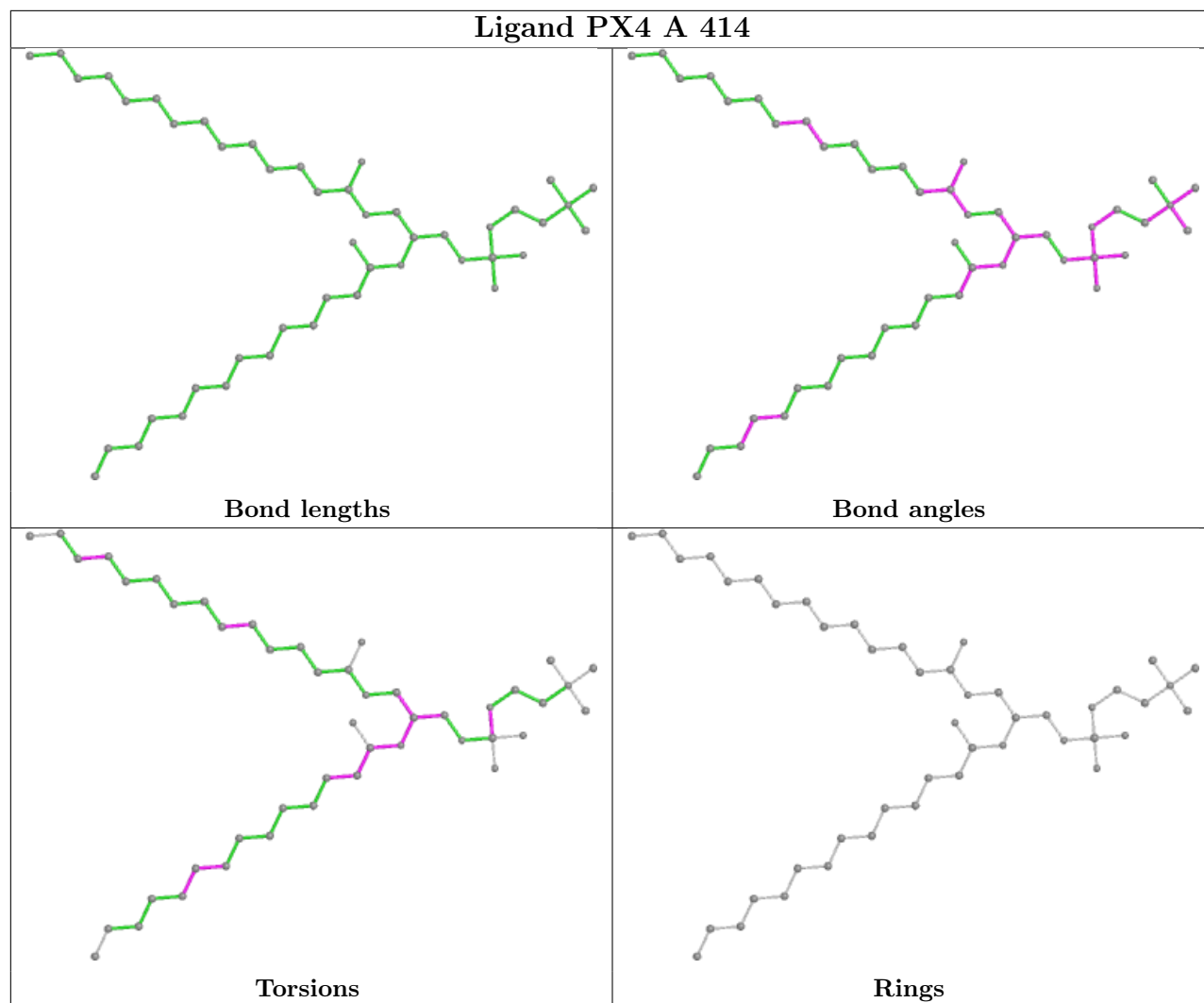


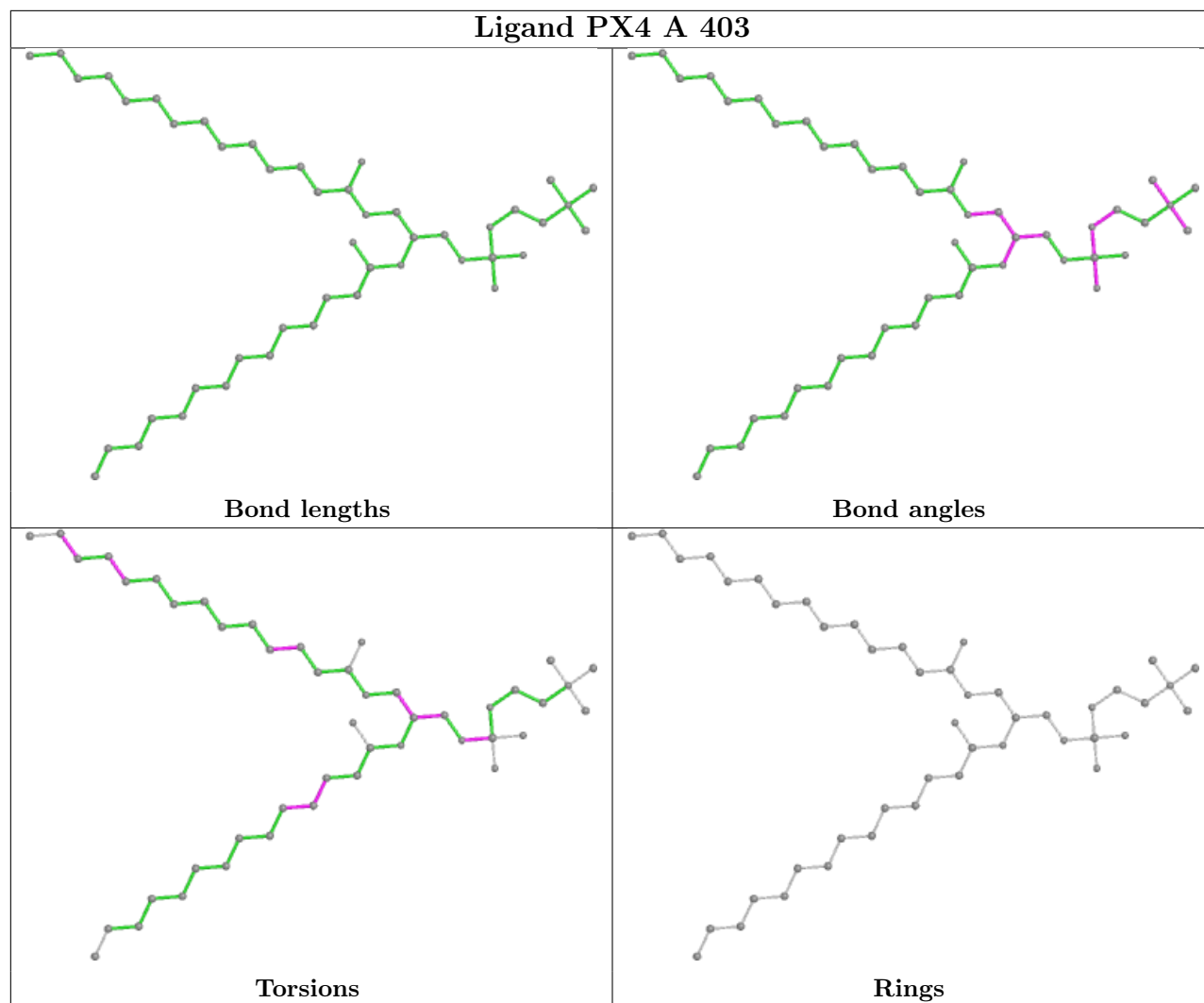


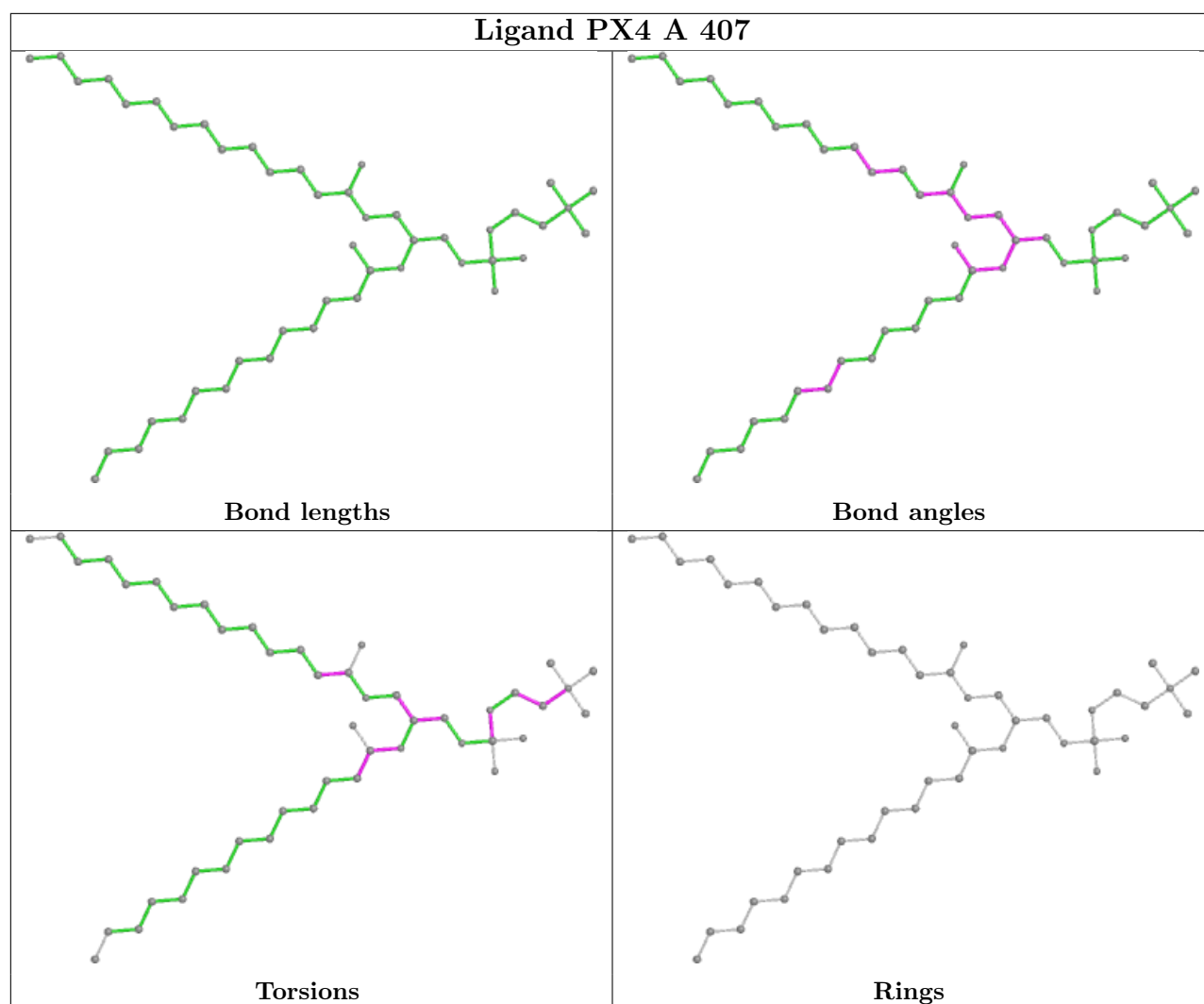












## 6.7 Other polymers [i](#)

There are no such molecules in this entry.

## 6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 25% for the well-defined parts and 24% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *assigned\_chem\_shift\_list\_1*

#### 7.1.1 Bookkeeping i

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	797
Number of shifts mapped to atoms	797
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

#### 7.1.2 Chemical shift referencing i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	0	—	None (insufficient data)
$^{13}\text{C}_\beta$	0	—	None (insufficient data)
$^{13}\text{C}'$	0	—	None (insufficient data)
$^{15}\text{N}$	188	$0.12 \pm 0.28$	None needed ( $< 0.5$ ppm)

#### 7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 25%, i.e. 785 atoms were assigned a chemical shift out of a possible 3158. 0 out of 30 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	428/1186 (36%)	244/487 (50%)	0/474 (0%)	184/225 (82%)
Sidechain	344/1657 (21%)	295/1076 (27%)	45/517 (9%)	4/64 (6%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	13/315 (4%)	9/156 (6%)	0/146 (0%)	4/13 (31%)
Overall	785/3158 (25%)	548/1719 (32%)	45/1137 (4%)	192/302 (64%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 24%, i.e. 797 atoms were assigned a chemical shift out of a possible 3323. 0 out of 32 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	436/1237 (35%)	248/507 (49%)	0/496 (0%)	188/234 (80%)
Sidechain	348/1761 (20%)	298/1143 (26%)	46/548 (8%)	4/70 (6%)
Aromatic	13/325 (4%)	9/161 (6%)	0/151 (0%)	4/13 (31%)
Overall	797/3323 (24%)	555/1811 (31%)	46/1195 (4%)	196/317 (62%)

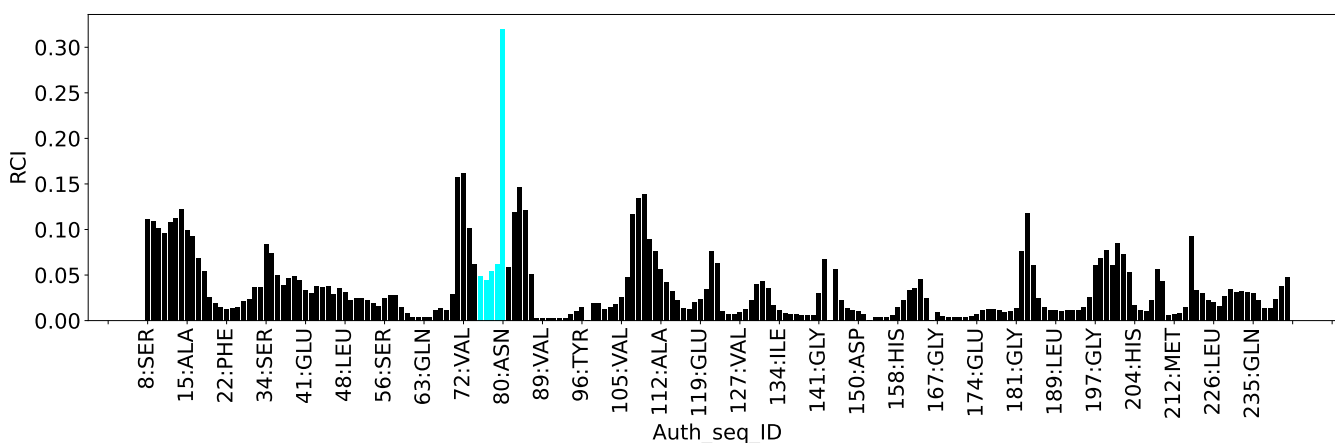
#### 7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

#### 7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



## 8 NMR restraints analysis

### 8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

Description	Value
Total distance restraints	1188
Intra-residue ( $ i-j =0$ )	220
Sequential ( $ i-j =1$ )	340
Medium range ( $ i-j >1$ and $ i-j <5$ )	186
Long range ( $ i-j \geq 5$ )	436
Inter-chain	0
Hydrogen bond restraints	6
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	137
Number of restraints per residue	4.8
Number of long range restraints per residue <sup>1</sup>	1.8

<sup>1</sup>Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

### 8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

#### 8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	17.9	0.2
0.2-0.5 (Medium)	42.0	0.5
>0.5 (Large)	113.8	26.55

### 8.2.2 Average number of dihedral-angle violations per model

Dihedral-angle violations less than  $1^\circ$  are not included in the calculation. There are no dihedral-angle violations

## 9 Distance violation analysis

### 9.1 Summary of distance violations

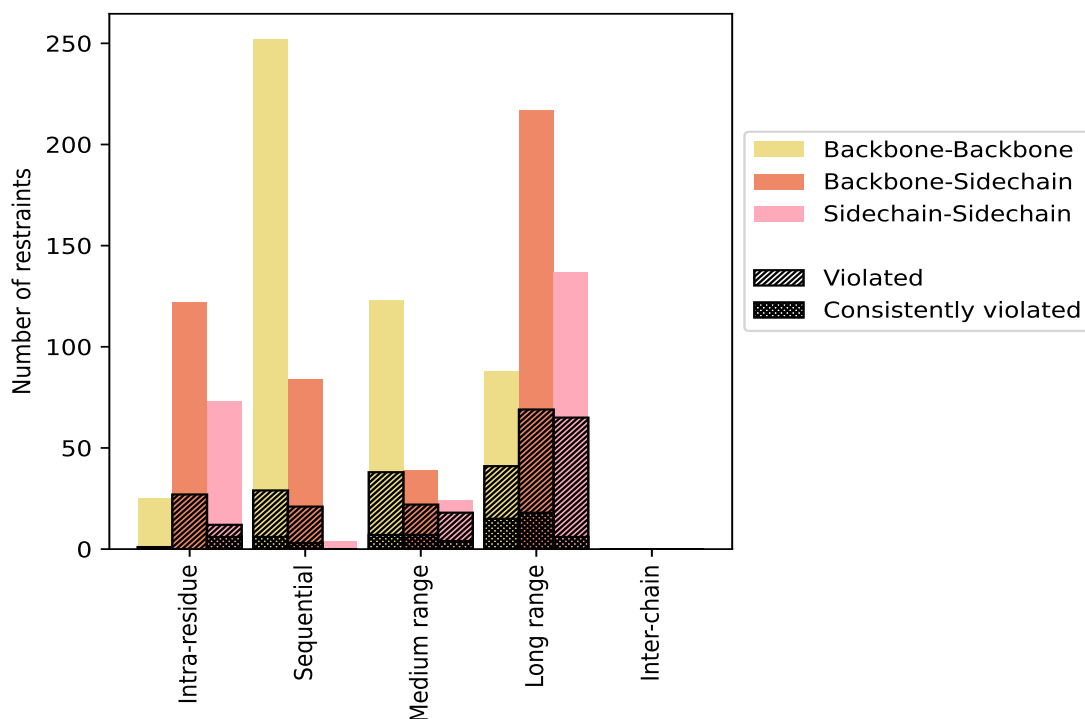
The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

Restrains type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>220</b>	<b>18.5</b>	<b>40</b>	<b>18.2</b>	<b>3.4</b>	<b>6</b>	<b>2.7</b>	<b>0.5</b>
Backbone-Backbone	25	2.1	1	4.0	0.1	0	0.0	0.0
Backbone-Sidechain	122	10.3	27	22.1	2.3	0	0.0	0.0
Sidechain-Sidechain	73	6.1	12	16.4	1.0	6	8.2	0.5
<b>Sequential (<math> i-j =1</math>)</b>	<b>340</b>	<b>28.6</b>	<b>50</b>	<b>14.7</b>	<b>4.2</b>	<b>9</b>	<b>2.6</b>	<b>0.8</b>
Backbone-Backbone	252	21.2	29	11.5	2.4	6	2.4	0.5
Backbone-Sidechain	84	7.1	21	25.0	1.8	3	3.6	0.3
Sidechain-Sidechain	4	0.3	0	0.0	0.0	0	0.0	0.0
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>186</b>	<b>15.7</b>	<b>78</b>	<b>41.9</b>	<b>6.6</b>	<b>18</b>	<b>9.7</b>	<b>1.5</b>
Backbone-Backbone	123	10.4	38	30.9	3.2	7	5.7	0.6
Backbone-Sidechain	39	3.3	22	56.4	1.9	7	17.9	0.6
Sidechain-Sidechain	24	2.0	18	75.0	1.5	4	16.7	0.3
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>436</b>	<b>36.7</b>	<b>175</b>	<b>40.1</b>	<b>14.7</b>	<b>39</b>	<b>8.9</b>	<b>3.3</b>
Backbone-Backbone	82	6.9	41	50.0	3.5	15	18.3	1.3
Backbone-Sidechain	217	18.3	69	31.8	5.8	18	8.3	1.5
Sidechain-Sidechain	137	11.5	65	47.4	5.5	6	4.4	0.5
<b>Inter-chain</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
<b>Hydrogen bond</b>	<b>6</b>	<b>0.5</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Disulfide bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total</b>	<b>1188</b>	<b>100.0</b>	<b>343</b>	<b>28.9</b>	<b>28.9</b>	<b>72</b>	<b>6.1</b>	<b>6.1</b>
Backbone-Backbone	488	41.1	109	22.3	9.2	28	5.7	2.4
Backbone-Sidechain	462	38.9	139	30.1	11.7	28	6.1	2.4
Sidechain-Sidechain	238	20.0	95	39.9	8.0	16	6.7	1.3

<sup>1</sup> percentage calculated with respect to the total number of distance restraints, <sup>2</sup> percentage calculated with respect to the number of restraints in a particular restraint category, <sup>3</sup> violated in at least one model, <sup>4</sup> violated in all the models



### 9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfied bonds are counted in their appropriate category on the x-axis

## 9.2 Distance violation statistics for each model [i](#)

The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
1	18	17	36	104	0	175	2.73	25.23	4.78	0.92
2	19	21	39	96	0	175	2.56	24.96	4.75	0.71
3	16	18	33	98	0	165	2.82	24.81	4.98	0.94
4	15	23	34	116	0	188	2.59	26.01	4.81	0.96
5	9	17	39	101	0	166	2.82	26.03	4.94	0.86
6	13	20	40	97	0	170	2.85	25.33	5.03	1.08
7	16	16	43	117	0	192	2.64	24.05	4.61	1.02
8	10	23	37	95	0	165	2.71	25.02	5.04	0.81
9	13	18	43	101	0	175	2.65	24.13	4.76	0.8
10	15	18	40	95	0	168	2.77	24.21	4.81	1.0
11	16	18	41	101	0	176	2.7	24.31	4.7	0.96

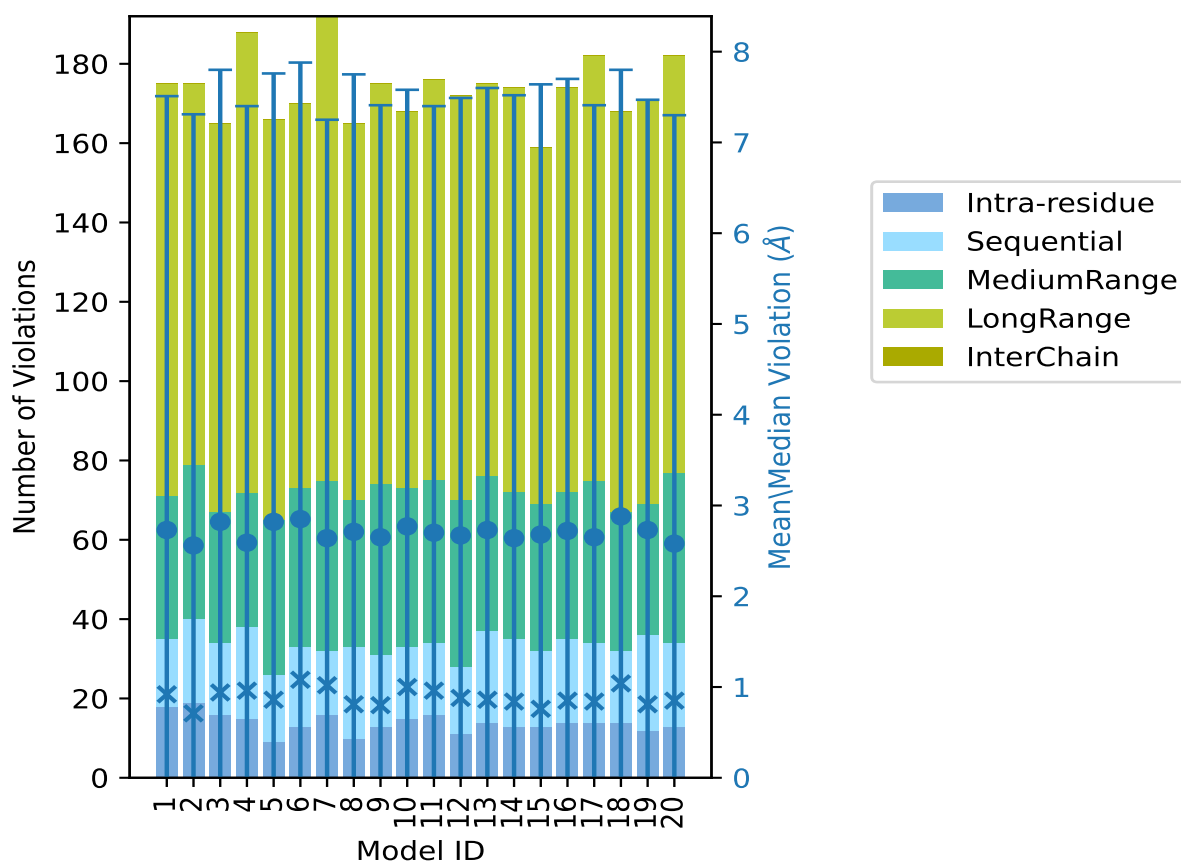
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>					
12	11	17	42	102	0	172	2.67	25.28	4.82	0.88
13	14	23	39	99	0	175	2.73	24.7	4.87	0.86
14	13	22	37	102	0	174	2.64	24.06	4.88	0.84
15	13	19	37	90	0	159	2.68	24.94	4.96	0.76
16	14	21	37	102	0	174	2.72	25.7	4.98	0.85
17	14	20	41	107	0	182	2.65	25.24	4.76	0.84
18	14	18	35	101	0	168	2.88	26.55	4.92	1.04
19	12	24	33	102	0	171	2.73	23.51	4.74	0.81
20	13	21	43	105	0	182	2.58	24.9	4.72	0.85

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints, <sup>5</sup>Inter-chain restraints, <sup>6</sup>Standard deviation

### 9.2.1 Bar graph : Distance Violation statistics for each model



The mean(dot), median(x) and the standard deviation are shown in blue with respect to the y axis on the right

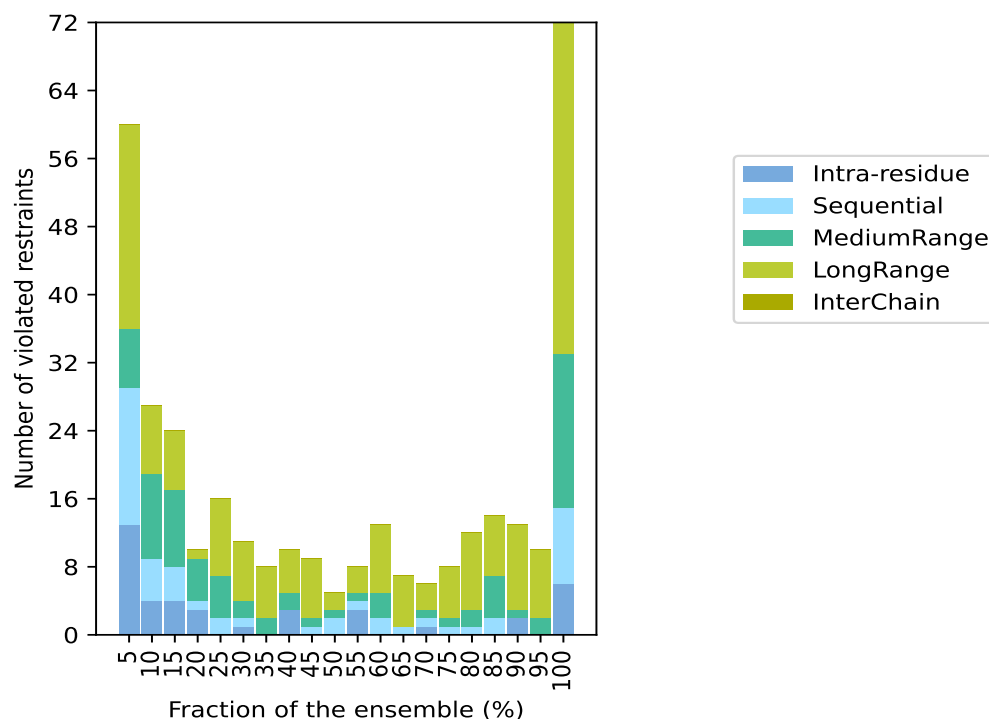
### 9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 839(IR:180, SQ:290, MR:108, LR:261, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
13	16	7	24	0	60	1	5.0
4	5	10	8	0	27	2	10.0
4	4	9	7	0	24	3	15.0
3	1	5	1	0	10	4	20.0
0	2	5	9	0	16	5	25.0
1	1	2	7	0	11	6	30.0
0	0	2	6	0	8	7	35.0
3	0	2	5	0	10	8	40.0
0	1	1	7	0	9	9	45.0
0	2	1	2	0	5	10	50.0
3	1	1	3	0	8	11	55.0
0	2	3	8	0	13	12	60.0
0	1	0	6	0	7	13	65.0
1	1	1	3	0	6	14	70.0
0	1	1	6	0	8	15	75.0
0	1	2	9	0	12	16	80.0
0	2	5	7	0	14	17	85.0
2	0	1	10	0	13	18	90.0
0	0	2	8	0	10	19	95.0
6	9	18	39	0	72	20	100.0

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints, <sup>5</sup>Inter-chain restraints, <sup>6</sup> Number of models with violations

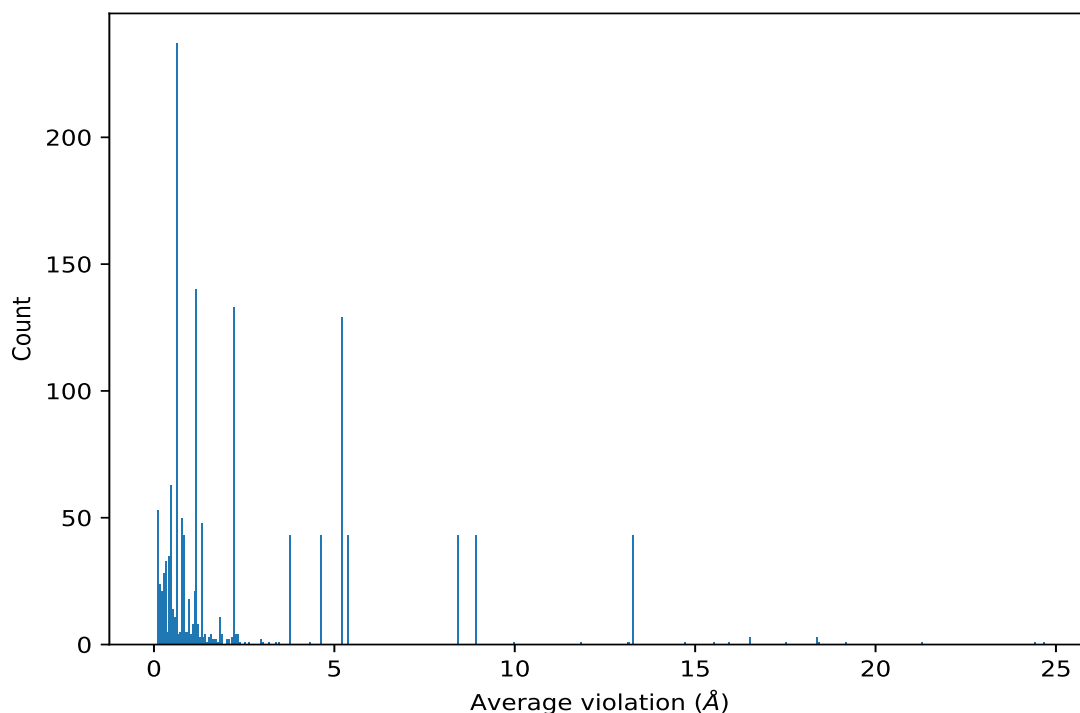
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



## 9.4 Most violated distance restraints in the ensemble [i](#)

### 9.4.1 Histogram : Distribution of mean distance violations [i](#)

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble



#### 9.4.2 Table: Most violated distance restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	20	24.69	0.98	24.88
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	20	24.44	0.49	24.34
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	20	21.26	0.45	21.19
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	20	19.19	0.66	19.25
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	20	18.43	1.22	18.24
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	20	18.39	0.63	18.42
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	20	18.39	0.63	18.42
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	20	18.39	0.63	18.42
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	20	17.53	0.95	17.28
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	20	16.51	0.48	16.46
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	20	16.51	0.48	16.46
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	20	16.51	0.48	16.46
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	20	15.91	0.47	15.87
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	20	15.5	0.56	15.34
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	20	14.73	0.48	14.71
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	20	13.29	0.44	13.22

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	20	13.29	0.44	13.22
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	20	13.29	0.44	13.22

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	20	13.16	0.47	13.33
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	20	13.12	0.31	13.03
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	20	11.84	1.02	11.36
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	20	9.96	0.36	9.96
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	20	8.94	0.62	8.96

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	20	8.94	0.62	8.96
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	20	8.94	0.62	8.96
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	20	8.43	0.4	8.44

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	20	8.43	0.4	8.44
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	20	8.43	0.4	8.44
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	20	5.37	0.53	5.31

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	20	5.37	0.53	5.31
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	20	5.37	0.53	5.31
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	20	5.21	0.48	5.3

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	20	5.21	0.48	5.3

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	20	5.21	0.48	5.3

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	20	5.21	0.48	5.3
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	20	5.21	0.48	5.3
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	20	4.63	0.51	4.62

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	20	4.63	0.51	4.62
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	20	4.63	0.51	4.62
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	20	4.31	0.11	4.32
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	20	3.79	0.42	3.66

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	20	3.79	0.42	3.66
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	20	3.79	0.42	3.66
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	20	3.47	0.81	3.68
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	20	3.4	0.15	3.39
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	20	3.19	0.49	3.29
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	20	3.01	1.27	3.16
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	20	2.99	1.22	3.44
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	20	2.99	1.2	2.72
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	20	2.6	0.38	2.55
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	20	2.55	1.01	2.68
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	20	2.38	0.19	2.36
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	20	2.32	0.99	2.42
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	20	2.3	0.78	2.24
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	20	2.3	0.78	2.24
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	20	2.24	0.36	2.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	20	2.24	0.36	2.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	20	2.24	0.36	2.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	20	2.24	0.36	2.2
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	20	2.24	0.36	2.2
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	20	2.2	0.34	2.29
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	20	2.2	0.34	2.29
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	20	2.2	0.23	2.12
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	20	2.2	0.88	2.12
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	20	2.17	0.95	2.17
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	20	2.16	1.29	1.94
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	20	2.16	0.87	2.32
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	20	1.9	0.9	1.74
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	20	1.9	0.9	1.74
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	20	1.89	0.64	2.03
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	20	1.89	0.64	2.03
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	20	1.82	0.75	1.75
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	20	1.82	0.75	1.75
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	20	1.82	0.75	1.75

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	20	1.82	0.87	1.36
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	20	1.74	0.31	1.86
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	20	1.74	0.31	1.86
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	20	1.68	0.78	1.52
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	20	1.68	0.78	1.52
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	20	1.64	0.92	1.48
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	20	1.54	0.18	1.52
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	20	1.35	0.54	1.42
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	20	1.3	0.75	1.03

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	20	1.3	0.75	1.03
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	20	1.3	0.75	1.03
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	20	1.19	0.45	1.08

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	20	1.19	0.45	1.08

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	20	1.19	0.45	1.08

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	20	1.19	0.45	1.08
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	20	1.19	0.45	1.08
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	20	1.1	0.27	1.1
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	20	1.06	0.41	1.17
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	20	1.03	0.17	1.08
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	20	1.0	0.41	0.98
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	20	0.87	0.47	0.76
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	20	0.78	0.13	0.76
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	20	0.62	0.13	0.64
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	20	0.54	0.13	0.53
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	20	0.51	0.12	0.54
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	20	0.45	0.03	0.45
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	20	0.45	0.03	0.45
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	20	0.44	0.1	0.44
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	20	0.42	0.14	0.43
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	20	0.35	0.16	0.3
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	20	0.34	0.12	0.32
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	20	0.32	0.1	0.3
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	20	0.26	0.04	0.26
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	20	0.26	0.04	0.26
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	20	0.26	0.04	0.26
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	20	0.26	0.04	0.26
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	20	0.25	0.03	0.26
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	19	2.27	1.04	2.39
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	19	2.27	1.04	2.39
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	19	2.07	0.95	1.96
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	19	2.07	0.95	1.96
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	19	1.84	1.17	1.54
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	19	0.99	0.5	0.88
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	19	0.99	0.5	0.88
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	19	0.88	0.24	0.9
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	19	0.63	0.29	0.6

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	19	0.63	0.16	0.66

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	19	0.63	0.16	0.66

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	19	0.63	0.16	0.66

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	19	0.63	0.16	0.66
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	19	0.63	0.16	0.66
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	19	0.48	0.19	0.48
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	18	2.0	0.98	2.52
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	18	2.0	0.98	2.52
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	18	1.83	1.01	1.88
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	18	1.83	1.01	1.88
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	18	1.82	0.92	1.85
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	18	1.82	0.92	1.85
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	18	1.82	0.92	1.85
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	18	1.65	1.12	1.18
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	18	1.55	0.84	1.6
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	18	1.55	0.84	1.6
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	18	1.55	0.84	1.6
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	18	1.31	0.69	1.44
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	18	1.31	0.69	1.44
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	18	1.31	0.69	1.44
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	18	1.31	0.69	1.44
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	18	1.29	0.84	1.23
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	18	1.29	0.84	1.23
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	18	1.16	0.7	1.02
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	18	1.16	0.7	1.02
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	18	1.06	0.48	0.94
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	18	0.64	0.19	0.7
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	18	0.42	0.16	0.4
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	17	1.47	0.7	1.55
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	17	1.43	0.68	1.72
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	17	1.43	0.68	1.72
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	17	1.43	0.68	1.72
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	17	1.29	0.86	1.28
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	17	1.22	0.66	1.2
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	17	1.22	0.66	1.2
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	17	1.2	0.71	1.09
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	17	1.2	0.71	1.09
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	17	1.1	0.86	0.71
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	17	1.1	0.86	0.71
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	17	1.1	0.86	0.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	17	1.1	0.86	0.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	17	1.1	0.86	0.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	17	1.1	0.86	0.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	17	1.1	0.86	0.71

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	17	1.1	0.86	0.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	17	1.1	0.86	0.71
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	17	0.99	0.39	1.05
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	17	0.98	0.55	1.04
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	17	0.98	0.55	1.04
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	17	0.98	0.55	1.04
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	17	0.98	0.55	1.04
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	17	0.98	0.55	1.04
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	17	0.98	0.55	1.04
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	17	0.98	0.55	1.04
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	17	0.98	0.55	1.04
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	17	0.98	0.55	1.04
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	17	0.59	0.3	0.54
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	17	0.59	0.3	0.54
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	17	0.59	0.3	0.54
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	17	0.49	0.26	0.42
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	17	0.49	0.26	0.42
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	17	0.48	0.25	0.42
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	17	0.4	0.13	0.37
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	17	0.39	0.19	0.35
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	16	1.84	1.14	1.8
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	16	1.43	0.97	1.15
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	16	1.3	0.69	1.44
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	16	1.23	0.59	1.37
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	16	1.16	0.74	0.97
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	16	1.16	0.74	0.97
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	16	1.16	0.74	0.97
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	16	1.16	0.74	0.97
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	16	1.14	0.75	0.92
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	16	1.14	0.75	0.92
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	16	1.11	0.61	1.25
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	16	0.43	0.26	0.36
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	16	0.42	0.2	0.42
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	16	0.42	0.2	0.42
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	16	0.39	0.13	0.33
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	16	0.33	0.15	0.32
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	15	1.57	0.85	1.59
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	15	1.38	1.09	1.11
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	15	0.62	0.35	0.59

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	15	0.62	0.35	0.59
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	15	0.62	0.35	0.59
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	15	0.41	0.22	0.33
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	15	0.4	0.2	0.36
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	15	0.4	0.2	0.36

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	15	0.4	0.2	0.36
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	15	0.34	0.16	0.33
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	15	0.27	0.09	0.25
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	15	0.27	0.11	0.22
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	14	1.5	0.58	1.66
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	14	1.23	0.69	1.14
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	14	1.23	0.69	1.14
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	14	1.23	0.69	1.14
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	14	1.23	0.69	1.14
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	14	0.66	0.28	0.69
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	14	0.61	0.44	0.5
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	14	0.34	0.14	0.32
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	13	1.15	0.7	1.25
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	13	1.15	0.7	1.25
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	13	1.11	0.85	0.94
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	13	1.11	0.85	0.94
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	13	1.09	0.5	0.84
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	13	0.78	0.48	0.69
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	13	0.78	0.48	0.69
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	13	0.68	0.24	0.72
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	13	0.68	0.24	0.72
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	13	0.62	0.35	0.57

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	13	0.62	0.35	0.57
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	13	0.62	0.35	0.57
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	13	0.3	0.07	0.29
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	12	1.19	0.58	1.29
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	12	1.18	0.73	0.96
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	12	1.15	0.25	1.18
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	12	1.06	0.66	0.86
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	12	0.95	0.34	1.06
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	12	0.87	0.53	0.83
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	12	0.87	0.53	0.83
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	12	0.73	0.34	0.66
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	12	0.73	0.34	0.66
(2,645)	1:A:199:SER:H	1:A:202:MET:H	12	0.4	0.19	0.36
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	12	0.4	0.2	0.41
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	12	0.4	0.2	0.41
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	12	0.36	0.16	0.36
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	12	0.35	0.17	0.36
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	12	0.35	0.17	0.36
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	12	0.35	0.17	0.36
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	12	0.34	0.22	0.24
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	11	0.99	0.67	0.71
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	11	0.99	0.67	0.71

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	11	0.99	0.67	0.71
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	11	0.63	0.24	0.7
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	11	0.63	0.24	0.7
(2,681)	1:A:212:MET:H	1:A:227:SER:H	11	0.38	0.16	0.39
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	11	0.35	0.14	0.31
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	11	0.35	0.14	0.31
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	11	0.31	0.15	0.3
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	11	0.29	0.12	0.28
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	11	0.14	0.03	0.12
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	11	0.14	0.03	0.12
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	11	0.14	0.03	0.12
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	11	0.14	0.03	0.12
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	11	0.14	0.03	0.12
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	11	0.14	0.03	0.12
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	11	0.13	0.02	0.13
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	11	0.13	0.02	0.13
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	11	0.13	0.02	0.13
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	11	0.13	0.02	0.13
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	11	0.13	0.02	0.13
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	11	0.13	0.02	0.13
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	10	1.36	0.98	1.02
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	10	0.44	0.2	0.36
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	10	0.44	0.2	0.36
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	10	0.44	0.2	0.36
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	10	0.4	0.23	0.38
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	10	0.4	0.23	0.38
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	10	0.4	0.23	0.38
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	10	0.22	0.09	0.17
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	10	0.22	0.09	0.17
(2,870)	1:A:89:VAL:HG11	1:A:122:LEU:HD21	9	1.79	0.8	1.88
(2,872)	1:A:89:VAL:HG12	1:A:122:LEU:HD21	9	1.19	0.52	1.1
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD22	9	1.08	0.59	1.03
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	9	1.08	0.59	1.03
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD22	9	0.91	0.64	0.8
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD23	9	0.91	0.64	0.8
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD22	9	0.71	0.35	0.65
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD23	9	0.71	0.35	0.65
(2,764)	1:A:19:LEU:HD22	1:A:40:LYS:H	9	0.61	0.5	0.49
(2,764)	1:A:19:LEU:HD23	1:A:40:LYS:H	9	0.61	0.5	0.49
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG11	9	0.46	0.18	0.36
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG12	9	0.46	0.18	0.36
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG13	9	0.46	0.18	0.36

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG11	9	0.46	0.18	0.36
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG12	9	0.46	0.18	0.36
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG13	9	0.46	0.18	0.36
(2,649)	1:A:200:LEU:HD21	1:A:199:SER:H	9	0.36	0.2	0.25
(2,42)	1:A:16:GLN:H	1:A:18:TYR:H	9	0.28	0.09	0.31
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD22	8	0.91	0.68	0.94
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD23	8	0.91	0.68	0.94
(3,23)	1:A:145:ASP:H	4:A:307:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:309:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:310:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:311:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:314:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:317:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:318:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:319:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:320:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:321:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:322:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:324:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:325:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:330:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:332:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:338:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:340:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:341:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:345:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:347:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:348:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:349:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:352:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:353:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:357:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:401:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:402:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:403:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:404:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:405:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:406:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:409:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:413:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:414:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:417:PX4:C35	8	0.85	0.29	0.88

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,23)	1:A:145:ASP:H	4:A:419:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:423:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:424:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:425:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:426:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:427:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:428:PX4:C35	8	0.85	0.29	0.88
(3,23)	1:A:145:ASP:H	4:A:429:PX4:C35	8	0.85	0.29	0.88
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD11	8	0.62	0.4	0.59
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD12	8	0.62	0.4	0.59
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD13	8	0.62	0.4	0.59
(2,348)	1:A:189:LEU:HD22	1:A:112:ALA:H	8	0.55	0.37	0.5
(2,348)	1:A:189:LEU:HD23	1:A:112:ALA:H	8	0.55	0.37	0.5
(2,119)	1:A:189:LEU:H	1:A:189:LEU:HD21	8	0.5	0.3	0.45
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD11	8	0.27	0.05	0.27
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD12	8	0.27	0.05	0.27
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD13	8	0.27	0.05	0.27
(2,610)	1:A:188:PHE:H	1:A:191:ALA:H	8	0.25	0.13	0.2
(2,526)	1:A:160:PHE:H	1:A:168:GLY:H	8	0.23	0.11	0.2
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG13	8	0.13	0.02	0.13
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG13	8	0.13	0.02	0.13
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG13	8	0.13	0.02	0.13
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG12	8	0.13	0.02	0.13
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG12	8	0.13	0.02	0.13
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG12	8	0.13	0.02	0.13
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG13	8	0.13	0.02	0.14
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG13	8	0.13	0.02	0.14
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG13	8	0.13	0.02	0.14
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG12	8	0.13	0.02	0.14
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG12	8	0.13	0.02	0.14
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG12	8	0.13	0.02	0.14
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD11	7	2.31	0.17	2.39
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD12	7	2.31	0.17	2.39
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD13	7	2.31	0.17	2.39
(2,235)	1:A:84:TRP:H	1:A:200:LEU:HD21	7	1.13	0.64	1.26
(2,1027)	1:A:58:VAL:HG13	1:A:54:LEU:HD21	7	0.97	0.76	0.95
(2,994)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	7	0.62	0.3	0.54
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG11	7	0.45	0.18	0.5
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG12	7	0.45	0.18	0.5
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG13	7	0.45	0.18	0.5
(2,287)	1:A:95:SER:H	1:A:137:GLY:H	7	0.41	0.2	0.36
(2,465)	1:A:137:GLY:H	1:A:95:SER:H	7	0.41	0.2	0.36

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,787)	1:A:58:VAL:HG21	1:A:43:GLN:HE21	7	0.28	0.12	0.26
(2,787)	1:A:58:VAL:HG22	1:A:43:GLN:HE21	7	0.28	0.12	0.26
(2,787)	1:A:58:VAL:HG23	1:A:43:GLN:HE21	7	0.28	0.12	0.26
(2,1023)	1:A:58:VAL:HG11	1:A:54:LEU:HD21	6	1.51	0.94	1.25
(2,588)	1:A:179:THR:H	1:A:100:LEU:HD21	6	0.86	0.48	0.88
(3,22)	1:A:144:GLY:H	4:A:307:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:309:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:310:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:311:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:314:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:317:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:318:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:319:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:320:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:321:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:322:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:324:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:325:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:330:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:332:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:338:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:340:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:341:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:345:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:347:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:348:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:349:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:352:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:353:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:357:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:401:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:402:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:403:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:404:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:405:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:406:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:409:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:413:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:414:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:417:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:419:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:423:PX4:C35	6	0.79	0.37	0.7

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(3,22)	1:A:144:GLY:H	4:A:424:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:425:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:426:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:427:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:428:PX4:C35	6	0.79	0.37	0.7
(3,22)	1:A:144:GLY:H	4:A:429:PX4:C35	6	0.79	0.37	0.7
(2,149)	1:A:43:GLN:HE22	1:A:52:GLY:H	6	0.69	0.12	0.65
(2,998)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	6	0.57	0.1	0.55
(2,899)	1:A:108:LEU:HD21	1:A:109:VAL:H	6	0.55	0.09	0.55
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD22	6	0.52	0.36	0.36
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD23	6	0.52	0.36	0.36
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD22	6	0.5	0.34	0.48
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD23	6	0.5	0.34	0.48
(2,822)	1:A:89:VAL:HG11	1:A:122:LEU:HG	6	0.5	0.16	0.53
(2,822)	1:A:89:VAL:HG12	1:A:122:LEU:HG	6	0.5	0.16	0.53
(2,822)	1:A:89:VAL:HG13	1:A:122:LEU:HG	6	0.5	0.16	0.53
(2,319)	1:A:106:ASP:H	1:A:102:HIS:HD2	6	0.32	0.18	0.23
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG21	6	0.16	0.03	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG22	6	0.16	0.03	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG23	6	0.16	0.03	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG11	6	0.16	0.03	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG12	6	0.16	0.03	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG13	6	0.16	0.03	0.15
(2,1025)	1:A:58:VAL:HG12	1:A:54:LEU:HD21	5	1.22	0.81	1.05
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD22	5	1.11	0.5	1.04
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD23	5	1.11	0.5	1.04
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD22	5	1.06	0.66	0.85
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD23	5	1.06	0.66	0.85
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD22	5	0.78	0.35	0.92
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD23	5	0.78	0.35	0.92
(2,996)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	5	0.74	0.42	0.45
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD22	5	0.63	0.3	0.56
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD23	5	0.63	0.3	0.56
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD22	5	0.51	0.2	0.4
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD23	5	0.51	0.2	0.4
(2,1059)	1:A:129:TRP:H	4:A:307:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:309:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:310:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:311:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:314:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:317:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:318:PX4:C1	5	0.45	0.13	0.5

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,1059)	1:A:129:TRP:H	4:A:319:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:320:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:321:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:322:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:324:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:325:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:330:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:332:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:338:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:340:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:341:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:345:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:347:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:348:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:349:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:352:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:353:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:357:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:401:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:402:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:403:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:404:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:405:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:406:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:409:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:413:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:414:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:417:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:419:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:423:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:424:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:425:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:426:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:427:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:428:PX4:C1	5	0.45	0.13	0.5
(2,1059)	1:A:129:TRP:H	4:A:429:PX4:C1	5	0.45	0.13	0.5
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG13	5	0.26	0.15	0.19
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG12	5	0.26	0.15	0.19
(2,676)	1:A:210:ALA:H	1:A:213:TYR:H	5	0.25	0.12	0.24
(2,815)	1:A:72:VAL:HG11	1:A:74:GLU:H	5	0.22	0.08	0.2
(2,815)	1:A:72:VAL:HG12	1:A:74:GLU:H	5	0.22	0.08	0.2
(2,815)	1:A:72:VAL:HG13	1:A:74:GLU:H	5	0.22	0.08	0.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,279)	1:A:136:ILE:H	1:A:93:ILE:H	5	0.22	0.09	0.19
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG21	5	0.19	0.07	0.21
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG22	5	0.19	0.07	0.21
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG23	5	0.19	0.07	0.21
(2,79)	1:A:25:TYR:H	1:A:26:ASP:H	5	0.18	0.05	0.17
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	5	0.16	0.02	0.15
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	5	0.16	0.02	0.15
(2,550)	1:A:159:ALA:H	1:A:171:HIS:H	5	0.15	0.03	0.16
(2,151)	1:A:55:ASN:H	1:A:58:VAL:H	4	0.33	0.17	0.31
(2,171)	1:A:55:ASN:H	1:A:58:VAL:H	4	0.33	0.17	0.31
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD11	4	0.32	0.19	0.24
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD12	4	0.32	0.19	0.24
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD13	4	0.32	0.19	0.24
(2,879)	1:A:127:VAL:HG11	1:A:91:TYR:H	4	0.3	0.12	0.28
(2,879)	1:A:127:VAL:HG12	1:A:91:TYR:H	4	0.3	0.12	0.28
(2,879)	1:A:127:VAL:HG13	1:A:91:TYR:H	4	0.3	0.12	0.28
(2,636)	1:A:198:HIS:H	1:A:195:ALA:H	4	0.22	0.1	0.22
(2,313)	1:A:105:VAL:HG21	1:A:105:VAL:H	4	0.2	0.06	0.21
(2,313)	1:A:105:VAL:HG22	1:A:105:VAL:H	4	0.2	0.06	0.21
(2,313)	1:A:105:VAL:HG23	1:A:105:VAL:H	4	0.2	0.06	0.21
(2,891)	1:A:105:VAL:HG21	1:A:105:VAL:H	4	0.2	0.06	0.21
(2,891)	1:A:105:VAL:HG22	1:A:105:VAL:H	4	0.2	0.06	0.21
(2,891)	1:A:105:VAL:HG23	1:A:105:VAL:H	4	0.2	0.06	0.21
(2,108)	1:A:43:GLN:H	1:A:46:PHE:H	4	0.16	0.05	0.15
(2,958)	1:A:120:ILE:HD11	1:A:120:ILE:HG13	4	0.14	0.02	0.14
(2,958)	1:A:120:ILE:HD12	1:A:120:ILE:HG13	4	0.14	0.02	0.14
(2,958)	1:A:120:ILE:HD13	1:A:120:ILE:HG13	4	0.14	0.02	0.14
(2,958)	1:A:120:ILE:HD11	1:A:120:ILE:HG12	4	0.14	0.02	0.14
(2,958)	1:A:120:ILE:HD12	1:A:120:ILE:HG12	4	0.14	0.02	0.14
(2,958)	1:A:120:ILE:HD13	1:A:120:ILE:HG12	4	0.14	0.02	0.14
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD11	4	0.12	0.02	0.11
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD12	4	0.12	0.02	0.11
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD13	4	0.12	0.02	0.11
(2,237)	1:A:84:TRP:HE1	1:A:200:LEU:HD21	3	1.0	0.16	0.9
(2,835)	1:A:84:TRP:HE1	1:A:200:LEU:HD21	3	1.0	0.16	0.9
(2,1028)	1:A:58:VAL:HG13	1:A:54:LEU:HD22	3	0.96	0.46	0.73
(2,1028)	1:A:58:VAL:HG13	1:A:54:LEU:HD23	3	0.96	0.46	0.73
(2,762)	1:A:19:LEU:HD22	1:A:38:LYS:H	3	0.77	0.34	0.62
(2,762)	1:A:19:LEU:HD23	1:A:38:LYS:H	3	0.77	0.34	0.62
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD11	3	0.62	0.28	0.44
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD12	3	0.62	0.28	0.44
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD13	3	0.62	0.28	0.44

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,70)	1:A:24:LEU:H	1:A:24:LEU:HD21	3	0.54	0.12	0.46
(2,767)	1:A:24:LEU:H	1:A:24:LEU:HD21	3	0.54	0.12	0.46
(2,772)	1:A:19:LEU:HD22	1:A:22:PHE:H	3	0.47	0.22	0.56
(2,772)	1:A:19:LEU:HD23	1:A:22:PHE:H	3	0.47	0.22	0.56
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD11	3	0.45	0.13	0.53
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD12	3	0.45	0.13	0.53
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD13	3	0.45	0.13	0.53
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG21	3	0.43	0.32	0.3
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG22	3	0.43	0.32	0.3
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG23	3	0.43	0.32	0.3
(2,788)	1:A:58:VAL:HG21	1:A:55:ASN:H	3	0.43	0.32	0.3
(2,788)	1:A:58:VAL:HG22	1:A:55:ASN:H	3	0.43	0.32	0.3
(2,788)	1:A:58:VAL:HG23	1:A:55:ASN:H	3	0.43	0.32	0.3
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD11	3	0.42	0.11	0.37
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD12	3	0.42	0.11	0.37
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD13	3	0.42	0.11	0.37
(2,658)	1:A:200:LEU:HD21	1:A:201:GLY:H	3	0.35	0.2	0.32
(2,135)	1:A:46:PHE:H	1:A:48:LEU:H	3	0.3	0.18	0.25
(2,153)	1:A:55:ASN:H	1:A:55:ASN:HD21	3	0.26	0.13	0.25
(2,245)	1:A:88:VAL:H	1:A:123:HIS:H	3	0.26	0.13	0.22
(2,226)	1:A:75:TYR:H	1:A:73:ALA:HA	3	0.24	0.09	0.21
(2,204)	1:A:66:ARG:H	1:A:67:CYS:H	3	0.24	0.02	0.24
(2,542)	1:A:170:ALA:H	1:A:137:GLY:H	3	0.2	0.05	0.23
(2,91)	1:A:37:ALA:H	1:A:36:GLU:H	3	0.17	0.03	0.19
(2,129)	1:A:46:PHE:H	1:A:47:GLY:H	3	0.17	0.04	0.14
(2,129)	1:A:46:PHE:H	1:A:47:GLY:H	3	0.17	0.04	0.14
(2,103)	1:A:41:GLU:H	1:A:43:GLN:H	3	0.15	0.04	0.13
(2,123)	1:A:47:GLY:H	1:A:45:PHE:H	3	0.14	0.02	0.14
(2,889)	1:A:103:ILE:HD11	1:A:103:ILE:HG13	3	0.13	0.02	0.12
(2,889)	1:A:103:ILE:HD12	1:A:103:ILE:HG13	3	0.13	0.02	0.12
(2,889)	1:A:103:ILE:HD13	1:A:103:ILE:HG13	3	0.13	0.02	0.12
(2,889)	1:A:103:ILE:HD11	1:A:103:ILE:HG12	3	0.13	0.02	0.12
(2,889)	1:A:103:ILE:HD12	1:A:103:ILE:HG12	3	0.13	0.02	0.12
(2,889)	1:A:103:ILE:HD13	1:A:103:ILE:HG12	3	0.13	0.02	0.12
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD22	2	0.62	0.36	0.62
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD23	2	0.62	0.36	0.62
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD11	2	0.62	0.36	0.62
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD12	2	0.62	0.36	0.62
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD13	2	0.62	0.36	0.62
(2,357)	1:A:113:LEU:H	1:A:196:LEU:HD22	2	0.6	0.08	0.6
(2,357)	1:A:113:LEU:H	1:A:196:LEU:HD23	2	0.6	0.08	0.6
(2,913)	1:A:113:LEU:H	1:A:196:LEU:HD22	2	0.6	0.08	0.6

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,913)	1:A:113:LEU:H	1:A:196:LEU:HD23	2	0.6	0.08	0.6
(2,814)	1:A:71:ASP:H	1:A:72:VAL:HG11	2	0.44	0.07	0.44
(2,814)	1:A:71:ASP:H	1:A:72:VAL:HG12	2	0.44	0.07	0.44
(2,814)	1:A:71:ASP:H	1:A:72:VAL:HG13	2	0.44	0.07	0.44
(2,111)	1:A:43:GLN:H	1:A:43:GLN:HE21	2	0.42	0.21	0.42
(2,902)	1:A:109:VAL:HG11	1:A:105:VAL:HG11	2	0.34	0.12	0.34
(2,902)	1:A:109:VAL:HG11	1:A:105:VAL:HG12	2	0.34	0.12	0.34
(2,902)	1:A:109:VAL:HG11	1:A:105:VAL:HG13	2	0.34	0.12	0.34
(2,902)	1:A:109:VAL:HG12	1:A:105:VAL:HG11	2	0.34	0.12	0.34
(2,902)	1:A:109:VAL:HG12	1:A:105:VAL:HG12	2	0.34	0.12	0.34
(2,902)	1:A:109:VAL:HG12	1:A:105:VAL:HG13	2	0.34	0.12	0.34
(2,902)	1:A:109:VAL:HG13	1:A:105:VAL:HG11	2	0.34	0.12	0.34
(2,902)	1:A:109:VAL:HG13	1:A:105:VAL:HG12	2	0.34	0.12	0.34
(2,902)	1:A:109:VAL:HG13	1:A:105:VAL:HG13	2	0.34	0.12	0.34
(2,589)	1:A:179:THR:H	1:A:100:LEU:HD22	2	0.32	0.02	0.32
(2,589)	1:A:179:THR:H	1:A:100:LEU:HD23	2	0.32	0.02	0.32
(2,612)	1:A:108:LEU:HD22	1:A:188:PHE:H	2	0.31	0.19	0.31
(2,612)	1:A:108:LEU:HD23	1:A:188:PHE:H	2	0.31	0.19	0.31
(2,133)	1:A:47:GLY:H	1:A:206:SER:HB3	2	0.3	0.12	0.3
(2,133)	1:A:47:GLY:H	1:A:206:SER:HB2	2	0.3	0.12	0.3
(2,639)	1:A:198:HIS:H	1:A:202:MET:H	2	0.21	0.04	0.21
(2,728)	1:A:236:LYS:H	1:A:237:LEU:H	2	0.21	0.06	0.21
(2,728)	1:A:236:LYS:H	1:A:237:LEU:H	2	0.21	0.06	0.21
(2,396)	1:A:120:ILE:H	1:A:122:LEU:H	2	0.21	0.0	0.21
(2,141)	1:A:50:ILE:H	1:A:50:ILE:HG12	2	0.19	0.02	0.19
(2,252)	1:A:89:VAL:H	1:A:123:HIS:H	2	0.18	0.02	0.18
(2,318)	1:A:104:THR:H	1:A:106:ASP:H	2	0.18	0.02	0.18
(2,292)	1:A:100:LEU:H	1:A:99:ASP:H	2	0.18	0.04	0.18
(2,292)	1:A:100:LEU:H	1:A:99:ASP:H	2	0.18	0.04	0.18
(2,579)	1:A:178:TRP:HE1	1:A:175:ASP:H	2	0.17	0.01	0.17
(2,117)	1:A:44:LYS:H	1:A:47:GLY:H	2	0.16	0.02	0.16
(2,544)	1:A:136:ILE:H	1:A:170:ALA:H	2	0.16	0.04	0.16
(2,729)	1:A:237:LEU:H	1:A:239:GLY:H	2	0.15	0.02	0.15
(2,740)	1:A:237:LEU:H	1:A:239:GLY:H	2	0.15	0.02	0.15
(2,784)	1:A:58:VAL:H	1:A:58:VAL:HG21	2	0.15	0.0	0.15
(2,784)	1:A:58:VAL:H	1:A:58:VAL:HG22	2	0.15	0.0	0.15
(2,784)	1:A:58:VAL:H	1:A:58:VAL:HG23	2	0.15	0.0	0.15
(2,214)	1:A:72:VAL:H	1:A:71:ASP:H	2	0.14	0.03	0.14
(2,706)	1:A:231:ILE:H	1:A:231:ILE:HG13	2	0.13	0.02	0.13
(2,706)	1:A:231:ILE:H	1:A:231:ILE:HG12	2	0.13	0.02	0.13
(2,230)	1:A:86:SER:H	1:A:85:THR:H	2	0.12	0.01	0.12
(2,568)	1:A:178:TRP:HE1	1:A:176:GLU:H	2	0.12	0.0	0.12

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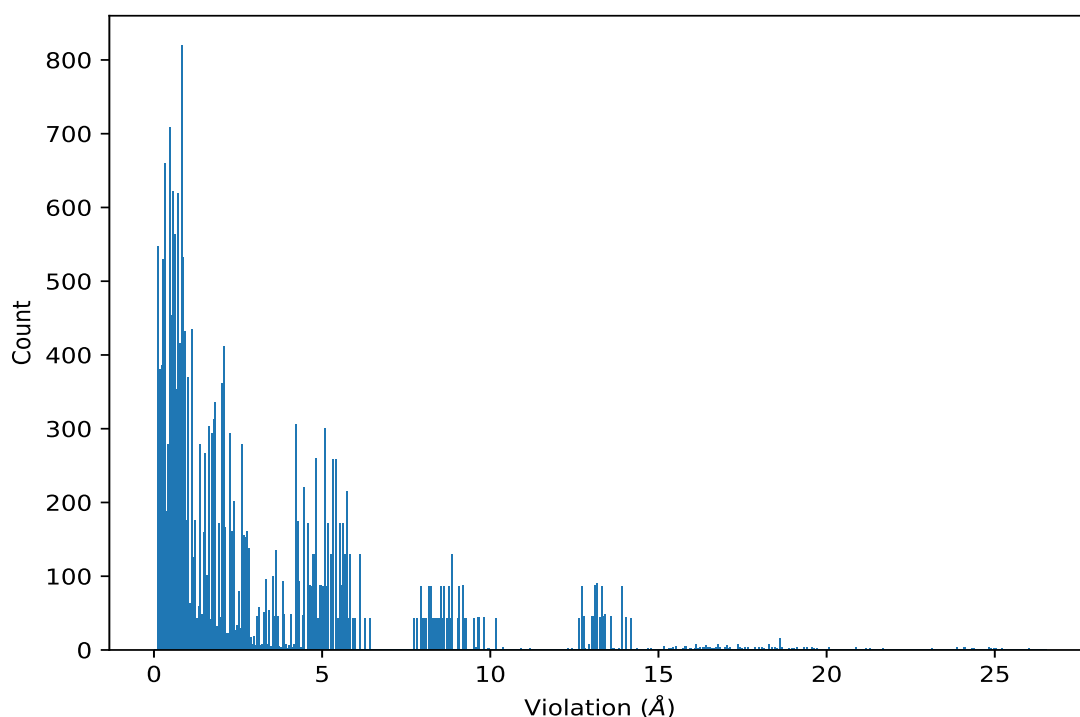
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(2,580)	1:A:178:TRP:HE1	1:A:176:GLU:H	2	0.12	0.0	0.12

<sup>1</sup>Number of violated models, <sup>2</sup>Standard deviation

## 9.5 All violated distance restraints [i](#)

### 9.5.1 Histogram : Distribution of distance violations [i](#)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



### 9.5.2 Table : All distance violations [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	18	26.55
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	5	26.03
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	4	26.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	16	25.7
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	6	25.33
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	12	25.28
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	17	25.24
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	1	25.23
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	6	25.11
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	16	25.03
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	8	25.02
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	4	24.97
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	2	24.96
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	15	24.94
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	20	24.9
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	8	24.87
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	15	24.84
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	5	24.83
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	3	24.81
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	13	24.7
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	18	24.38
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	12	24.35
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	13	24.32
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	11	24.31
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	10	24.21
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	9	24.13
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	2	24.12
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	20	24.11
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	10	24.08
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	14	24.06
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	7	24.05
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	17	24.03
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	14	23.9
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	7	23.88
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	3	23.85
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	1	23.68
(2,53)	1:A:22:PHE:H	1:A:183:SER:H	19	23.51
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	19	23.13
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	11	23.11
(2,62)	1:A:23:TYR:H	1:A:219:GLY:H	9	23.04
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	16	22.37
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	13	22.03
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	5	21.86
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	20	21.7
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	6	21.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	15	21.47
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	8	21.29
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	17	21.28
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	3	21.21
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	11	21.19
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	14	21.19
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	2	21.1
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	19	21.08
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	1	20.95
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	4	20.89
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	18	20.89
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	10	20.85
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	9	20.79
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	12	20.74
(2,52)	1:A:21:ARG:H	1:A:185:GLY:H	7	20.67
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	7	20.25
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	4	20.2
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	6	20.1
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	8	20.08
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	4	20.07
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	6	20.07
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	17	20.07
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	16	19.8
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	16	19.79
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	13	19.74
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	3	19.72
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	3	19.66
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	5	19.64
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	18	19.6
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	16	19.56
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	16	19.56
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	16	19.56
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	1	19.43
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	1	19.43
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	1	19.43
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	9	19.39
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	20	19.34
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	20	19.34
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	20	19.34
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	15	19.31
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	20	19.19
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	12	19.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	3	19.1
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	3	19.1
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	3	19.1
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	4	19.08
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	8	19.01
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	1	19.0
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	9	18.96
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	6	18.95
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	20	18.87
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	14	18.85
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	13	18.67
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	14	18.66
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	14	18.66
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	14	18.66
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	5	18.65
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	5	18.65
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	5	18.65
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	8	18.65
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	8	18.65
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	8	18.65
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	14	18.64
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	7	18.63
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	4	18.63
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	4	18.63
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	4	18.63
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	14	18.61
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	12	18.6
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	12	18.6
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	12	18.6
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	2	18.51
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	8	18.51
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	17	18.45
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	17	18.45
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	17	18.45
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	7	18.4
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	7	18.4
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	7	18.4
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	1	18.38
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	16	18.31
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	7	18.28
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	18	18.26
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	18	18.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	18	18.26
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	11	18.25
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	11	18.25
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	11	18.25
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	19	18.22
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	10	18.14
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	13	18.11
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	2	18.08
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	2	18.08
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	2	18.08
(2,60)	1:A:22:PHE:H	1:A:217:GLY:H	11	18.01
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	17	17.98
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	15	17.98
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	15	17.98
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	15	17.98
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	6	17.85
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	6	17.85
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	6	17.85
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	11	17.8
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	3	17.72
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	19	17.66
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	19	17.66
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	19	17.66
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	19	17.58
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	13	17.58
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	13	17.58
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	13	17.58
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	18	17.51
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	17	17.49
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	5	17.49
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	14	17.44
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	14	17.44
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	14	17.44
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	9	17.4
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	9	17.4
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	9	17.4
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	9	17.39
(2,297)	1:A:105:VAL:HG21	1:A:237:LEU:H	10	17.36
(2,297)	1:A:105:VAL:HG22	1:A:237:LEU:H	10	17.36
(2,297)	1:A:105:VAL:HG23	1:A:237:LEU:H	10	17.36
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	12	17.34
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	10	17.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	18	17.18
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	2	17.1
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	2	17.1
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	2	17.1
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	5	17.07
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	11	17.05
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	6	17.04
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	6	17.04
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	6	17.04
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	10	17.01
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	10	17.01
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	10	17.01
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	9	16.99
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	9	16.99
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	9	16.99
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	8	16.88
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	3	16.83
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	3	16.83
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	3	16.83
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	2	16.78
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	18	16.76
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	18	16.76
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	18	16.76
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	7	16.75
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	7	16.75
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	7	16.75
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	1	16.73
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	17	16.73
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	2	16.7
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	20	16.69
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	6	16.68
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	18	16.65
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	10	16.63
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	12	16.58
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	19	16.55
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	15	16.53
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	15	16.53
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	15	16.53
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	20	16.49
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	20	16.49
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	20	16.49
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	1	16.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	1	16.43
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	1	16.43
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	4	16.43
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	4	16.43
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	4	16.43
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	3	16.4
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	13	16.4
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	13	16.4
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	13	16.4
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	12	16.32
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	12	16.32
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	12	16.32
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	11	16.3
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	13	16.22
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	16	16.21
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	16	16.21
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	16	16.21
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	4	16.18
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	16	16.16
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	19	16.14
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	19	16.14
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	19	16.14
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	17	16.13
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	17	16.13
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	17	16.13
(2,75)	1:A:25:TYR:H	1:A:11:GLN:HE21	15	16.11
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	14	16.09
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	5	16.08
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	12	16.03
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	6	15.99
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	2	15.97
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	1	15.92
(2,750)	1:A:10:LEU:H	1:A:25:TYR:H	15	15.91
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	12	15.88
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	9	15.85
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	11	15.83
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	11	15.83
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	11	15.83
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	19	15.82
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	20	15.79
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	8	15.77
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	8	15.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	8	15.77
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	13	15.76
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	10	15.74
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	14	15.73
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	7	15.6
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD11	5	15.53
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD12	5	15.53
(2,296)	1:A:100:LEU:H	1:A:120:ILE:HD13	5	15.53
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	16	15.52
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	4	15.51
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	14	15.46
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	17	15.45
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	15	15.43
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	6	15.41
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	20	15.38
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	7	15.36
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	10	15.33
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	13	15.31
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	19	15.29
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	16	15.2
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	18	15.18
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	1	15.16
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	8	15.16
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	3	15.15
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	4	15.13
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	15	15.08
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	11	15.01
(2,73)	1:A:11:GLN:H	1:A:24:LEU:H	9	14.99
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	5	14.91
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	11	14.87
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	17	14.8
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	7	14.79
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	3	14.76
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	1	14.72
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	20	14.7
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	5	14.67
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	8	14.63
(2,65)	1:A:23:TYR:H	1:A:205:SER:H	2	14.55
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	10	14.51
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	19	14.41
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	2	14.38
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	9	14.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	10	14.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	10	14.17
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	19	14.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	19	14.04
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	19	14.04
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	15	14.03
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	11	13.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	11	13.93
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	5	13.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	5	13.9
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	5	13.9
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	12	13.88
(2,77)	1:A:11:GLN:H	1:A:26:ASP:H	18	13.84
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	8	13.83
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	16	13.79
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	12	13.69
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	4	13.68
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	19	13.63
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	4	13.62
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	17	13.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	17	13.59
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	17	13.59
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	3	13.56
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	4	13.55
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	14	13.55
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	13	13.45
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	9	13.44
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	15	13.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	15	13.43
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	15	13.43
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	17	13.43
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	6	13.43
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	6	13.41
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	20	13.39
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	7	13.37
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	6	13.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	6	13.36
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	6	13.36
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	18	13.36
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	12	13.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	12	13.33
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	16	13.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	16	13.3
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	16	13.3
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	10	13.29
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	2	13.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	2	13.25
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	2	13.25
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	8	13.22
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	2	13.19
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	15	13.19
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	18	13.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	18	13.18
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	18	13.18
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	6	13.18
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	11	13.17
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	1	13.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	1	13.16
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	13	13.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	13	13.14
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	13	13.14
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	10	13.12
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	9	13.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	9	13.11
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	3	13.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	3	13.07
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	3	13.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	13	13.07
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	8	13.05
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	18	13.05
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	1	13.04
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	8	13.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	8	13.03
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	8	13.03
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	14	13.02
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	14	12.99
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	15	12.93
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	12	12.93
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	5	12.92
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	7	12.92
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	13	12.91
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	19	12.91
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	20	12.91
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	7	12.82
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	3	12.82
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	9	12.77
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	1	12.77
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	7	12.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	7	12.76
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	14	12.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	14	12.72
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	4	12.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	4	12.71
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	4	12.71
(2,751)	1:A:11:GLN:H	1:A:22:PHE:H	16	12.7
(3,4)	1:A:33:ASN:H	4:A:307:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:309:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:310:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:311:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:314:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:317:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:318:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:319:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:320:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:321:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:322:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:324:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:325:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:330:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:332:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:338:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:340:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:341:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:345:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:347:PX4:C35	20	12.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:A:33:ASN:H	4:A:348:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:349:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:352:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:353:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:357:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:401:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:402:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:403:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:404:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:405:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:406:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:409:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:413:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:414:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:417:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:419:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:423:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:424:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:425:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:426:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:427:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:428:PX4:C35	20	12.62
(3,4)	1:A:33:ASN:H	4:A:429:PX4:C35	20	12.62
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	16	12.54
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	11	12.45
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	5	12.44
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	3	12.32
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	2	12.31
(2,67)	1:A:24:LEU:H	1:A:204:HIS:HE1	17	12.25
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	9	12.24
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	17	11.54
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	11	11.17
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	18	11.15
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	10	11.09
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	5	11.04
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	19	10.98
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	1	10.94
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	20	10.94
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	2	10.83
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	12	10.74
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	12	10.52
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	9	10.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	1	10.39
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	7	10.37
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	13	10.36
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	14	10.35
(2,78)	1:A:14:GLN:H	1:A:25:TYR:H	15	10.29
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	6	10.21
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	10	10.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	10	10.18
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	10	10.18
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	8	10.04
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	11	9.99
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	17	9.98
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	4	9.94
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	20	9.92
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	16	9.84
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	19	9.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	19	9.82
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	19	9.82
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	5	9.72
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	2	9.7
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	17	9.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	17	9.66
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	11	9.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	11	9.61
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	11	9.61
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	15	9.61
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	3	9.59
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	10	9.55
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	18	9.55
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	5	9.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	5	9.53
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	5	9.53
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	19	9.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	19	9.25
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	19	9.25
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	2	9.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	2	9.21
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	15	9.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	15	9.18
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	15	9.18
(2,551)	1:A:159:ALA:H	1:A:92:ARG:H	19	9.18
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	18	9.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	18	9.15
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	7	9.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	7	9.09
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	7	9.09
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	7	9.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	7	9.08
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	7	9.08
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	1	9.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	1	9.04
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	1	9.04
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	5	8.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	5	8.89
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	5	8.89
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	6	8.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	6	8.88
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	14	8.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	14	8.87
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	14	8.87
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	1	8.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	1	8.81
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	1	8.81
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	12	8.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	12	8.78
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	12	8.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	12	8.78
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	15	8.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	15	8.71
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	9	8.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	9	8.61
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	9	8.61
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	16	8.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	16	8.6
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	3	8.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	3	8.56
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	3	8.56
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	10	8.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	10	8.51
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	10	8.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	11	8.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	11	8.5
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	18	8.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	18	8.47
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	6	8.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	6	8.42
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	16	8.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	16	8.37
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	2	8.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	2	8.3
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	2	8.3
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	4	8.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	4	8.28
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	9	8.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	9	8.21
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	9	8.21
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	14	8.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	14	8.21
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	14	8.21
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	8	8.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	8	8.15
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	13	8.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	13	8.15
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	13	8.15
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	3	8.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	3	8.09
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	17	8.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	17	8.04
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	4	7.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	4	7.99
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	8	7.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	8	7.93
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	20	7.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	20	7.92
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	20	7.92
(3,5)	1:A:51:THR:H	4:A:307:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:309:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:310:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:311:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:314:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:317:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:318:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:319:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:320:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:321:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:322:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:324:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:325:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:330:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:332:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:338:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:340:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:341:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:345:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:347:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:348:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:349:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:352:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:353:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:357:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:401:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:402:PX4:C35	20	7.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:51:THR:H	4:A:403:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:404:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:405:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:406:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:409:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:413:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:414:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:417:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:419:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:423:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:424:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:425:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:426:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:427:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:428:PX4:C35	20	7.81
(3,5)	1:A:51:THR:H	4:A:429:PX4:C35	20	7.81
(3,1)	1:A:5:GLY:H	4:A:307:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:309:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:310:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:311:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:314:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:317:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:318:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:319:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:320:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:321:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:322:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:324:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:325:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:330:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:332:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:338:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:340:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:341:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:345:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:347:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:348:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:349:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:352:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:353:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:357:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:401:PX4:C35	13	7.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:5:GLY:H	4:A:402:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:403:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:404:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:405:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:406:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:409:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:413:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:414:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:417:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:419:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:423:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:424:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:425:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:426:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:427:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:428:PX4:C35	13	7.74
(3,1)	1:A:5:GLY:H	4:A:429:PX4:C35	13	7.74
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	10	6.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	10	6.42
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	11	6.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	11	6.29
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	11	6.29
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	5	6.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	5	6.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	5	6.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	5	6.12
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	5	6.12
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	19	5.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	19	5.99
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	17	5.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	17	5.92
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	17	5.92
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	12	5.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	12	5.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	12	5.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	12	5.81
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	12	5.81
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	5	5.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	5	5.76
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	5	5.76
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	10	5.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	10	5.7
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	10	5.7
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	16	5.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	16	5.7
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	16	5.7
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	1	5.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	1	5.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	1	5.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	1	5.7
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	17	5.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	17	5.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	17	5.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	17	5.69
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	17	5.69
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	18	5.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	18	5.64
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	18	5.64
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	15	5.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	15	5.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	15	5.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	15	5.63
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	15	5.63
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	19	5.6
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	11	5.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	11	5.57
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	11	5.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	2	5.57
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	2	5.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	2	5.57
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	9	5.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	9	5.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	9	5.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	9	5.52
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	9	5.52
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	15	5.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	15	5.51
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	8	5.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	8	5.48
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	8	5.48
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	7	5.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	7	5.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	7	5.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	7	5.44
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	20	5.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	20	5.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	20	5.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	20	5.4
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	20	5.4
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	14	5.38
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	3	5.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	3	5.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	3	5.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	3	5.35
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	2	5.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	2	5.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	2	5.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	2	5.32
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	2	5.32
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	18	5.29
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	14	5.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	14	5.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	14	5.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	14	5.29
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	16	5.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	16	5.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	16	5.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	16	5.19
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	16	5.19
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	19	5.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	19	5.18
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	19	5.18
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	4	5.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	4	5.14
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	7	5.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	7	5.14
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	7	5.14
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	10	5.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	10	5.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	10	5.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	10	5.09
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	10	5.09
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	17	5.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	17	5.06
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	17	5.06
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	6	5.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	6	5.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	6	5.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	6	5.06
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	6	5.06
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	13	5.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	13	5.04
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	3	5.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	3	5.01
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	12	4.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	12	4.99
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	12	4.99
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	18	4.99
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	5	4.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	5	4.96
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	5	4.96
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	1	4.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	1	4.94
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	1	4.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	9	4.93
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	9	4.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	9	4.93
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	9	4.93
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	6	4.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	6	4.89
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	6	4.89
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	18	4.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	18	4.85
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	18	4.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	18	4.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	18	4.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	18	4.85
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	18	4.85
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	2	4.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	2	4.84
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	8	4.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	8	4.84
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	8	4.84
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	10	4.83
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	13	4.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	13	4.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	13	4.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	13	4.8
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	13	4.8
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	6	4.79
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	11	4.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	11	4.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	11	4.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	11	4.7
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	11	4.7
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	15	4.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	15	4.69
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	15	4.69
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	19	4.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	19	4.67
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	19	4.67
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	8	4.64
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	16	4.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	16	4.63
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	16	4.63
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	12	4.63
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	4	4.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	4	4.62
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	4	4.62
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	20	4.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	20	4.56
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	20	4.56
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	19	4.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	19	4.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	19	4.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	19	4.56
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	19	4.56
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	20	4.51
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	7	4.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	7	4.48
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	7	4.48
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	18	4.48
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	18	4.48
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	8	4.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	8	4.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	8	4.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	8	4.48
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	8	4.48
(3,2)	1:A:21:ARG:H	4:A:307:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:309:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:310:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:311:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:314:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:317:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:318:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:319:PX4:C35	14	4.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:A:21:ARG:H	4:A:320:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:321:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:322:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:324:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:325:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:330:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:332:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:338:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:340:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:341:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:345:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:347:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:348:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:349:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:352:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:353:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:357:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:401:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:402:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:403:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:404:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:405:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:406:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:409:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:413:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:414:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:417:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:419:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:423:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:424:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:425:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:426:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:427:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:428:PX4:C35	14	4.47
(3,2)	1:A:21:ARG:H	4:A:429:PX4:C35	14	4.47
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	7	4.47
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	13	4.46
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	20	4.46
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	6	4.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	6	4.43
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	6	4.43
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	6	4.43
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	4	4.4
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	8	4.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	10	4.4
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	1	4.39
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	19	4.39
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	7	4.38
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	3	4.37
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	3	4.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	3	4.35
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	9	4.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	9	4.35
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	9	4.35
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	9	4.34
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	14	4.34
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	1	4.33
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	2	4.32
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	1	4.32
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	18	4.31
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	2	4.31
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	1	4.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	1	4.29
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	1	4.29
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	18	4.28
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	12	4.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	12	4.27
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	12	4.27
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	16	4.27
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	7	4.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	7	4.26
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	5	4.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	5	4.25
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	11	4.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	11	4.24
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	11	4.24
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	3	4.24
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C3	4	4.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C3	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C4	4	4.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C4	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:307:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:309:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:310:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:311:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:314:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:317:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:318:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:319:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:320:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:321:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:322:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:324:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:325:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:330:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:332:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:338:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:340:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:341:PX4:C5	4	4.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1056)	1:A:83:LYS:H	4:A:345:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:347:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:348:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:349:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:352:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:353:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:357:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:401:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:402:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:403:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:404:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:405:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:406:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:409:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:413:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:414:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:417:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:419:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:423:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:424:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:425:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:426:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:427:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:428:PX4:C5	4	4.24
(2,1056)	1:A:83:LYS:H	4:A:429:PX4:C5	4	4.24
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	12	4.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	12	4.23
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	12	4.23
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	11	4.23
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	12	4.21
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	17	4.21
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	10	4.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	10	4.2
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	15	4.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	15	4.2
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	15	4.2
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	13	4.2
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	14	4.19
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	19	4.19
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	17	4.18
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	12	4.18
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	5	4.17
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	6	4.15
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	7	4.15
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	19	4.13
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	15	4.12
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	10	4.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	11	4.11
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	8	4.1
(2,268)	1:A:136:ILE:H	1:A:171:HIS:H	15	4.1
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	13	4.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	13	4.08
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	13	4.08
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	20	4.08
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	17	4.08
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	18	4.05
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	10	4.01
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	10	4.01
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	3	4.0
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	13	4.0
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	3	4.0
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	13	4.0
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	15	3.99
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	19	3.96
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	16	3.94
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	16	3.94
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	17	3.94
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	20	3.93
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	20	3.93
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	20	3.93
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	9	3.91
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	11	3.9
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	11	3.9
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	17	3.89
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	11	3.88
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	11	3.88
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	14	3.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	14	3.85
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	14	3.85
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	14	3.84
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	4	3.84
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	5	3.84
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	1	3.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	1	3.82
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	1	3.82
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	18	3.82
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	18	3.82
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	2	3.82
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	18	3.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	18	3.81
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	18	3.81
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	18	3.81
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	5	3.78
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	13	3.77
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	10	3.75
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	12	3.72
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	17	3.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	17	3.72
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	13	3.71
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	5	3.71
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	16	3.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	16	3.68
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	16	3.68
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	11	3.67
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	5	3.66
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	12	3.66
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	17	3.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	17	3.65
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	17	3.65
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	7	3.65
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	2	3.65
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	20	3.64
(3,3)	1:A:22:PHE:H	4:A:307:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:309:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:310:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:311:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:314:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:317:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:318:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:319:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:320:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:321:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:322:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:324:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:325:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:330:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:332:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:338:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:340:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:341:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:345:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:347:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:348:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:349:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:352:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:353:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:357:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:401:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:402:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:403:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:404:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:405:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:406:PX4:C35	20	3.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:A:22:PHE:H	4:A:409:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:413:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:414:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:417:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:419:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:423:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:424:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:425:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:426:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:427:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:428:PX4:C35	20	3.63
(3,3)	1:A:22:PHE:H	4:A:429:PX4:C35	20	3.63
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	15	3.63
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	2	3.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	2	3.61
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	2	3.61
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	18	3.6
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	19	3.6
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	11	3.58
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	5	3.57
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	6	3.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	6	3.56
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	6	3.56
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	6	3.56
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	3	3.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	3	3.55
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	3	3.55
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	10	3.55
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	20	3.55
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	11	3.54
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	20	3.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	20	3.53
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	20	3.53
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	19	3.53
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	9	3.52
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	9	3.52
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	9	3.51
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	9	3.51
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	16	3.51
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	4	3.51
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	4	3.51
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	4	3.51
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	14	3.5
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	17	3.5
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	5	3.48
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	19	3.48
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	11	3.48
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	17	3.47
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	6	3.47
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	18	3.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	6	3.44
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	9	3.43
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	9	3.43
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	1	3.42
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	18	3.42
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	9	3.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	9	3.41
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	9	3.41
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	16	3.41
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	5	3.41
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	5	3.41
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	5	3.41
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	1	3.4
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	12	3.4
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	2	3.39
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	3	3.39
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	14	3.39
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	1	3.38
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	9	3.38
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	13	3.35
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	2	3.34
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	4	3.34
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	8	3.33
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	16	3.33
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	1	3.32
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	1	3.32
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	18	3.32
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	6	3.32
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	8	3.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	8	3.31
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	14	3.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	14	3.31
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	14	3.31
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	19	3.31
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	19	3.31
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	4	3.3
(2,1023)	1:A:58:VAL:HG11	1:A:54:LEU:HD21	7	3.3
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	10	3.28
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	4	3.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	4	3.27
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	4	3.27
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	14	3.27
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	17	3.26
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	4	3.26
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	4	3.26
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	7	3.25
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	10	3.24
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	10	3.24
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	4	3.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	12	3.23
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	15	3.23
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	12	3.21
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	11	3.21
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	11	3.2
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	12	3.19
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	3	3.18
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	19	3.18
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	19	3.18
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	20	3.18
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	2	3.17
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	4	3.15
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	7	3.15
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	2	3.15
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	4	3.14
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	13	3.14
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	13	3.14
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	8	3.14
(3,6)	1:A:61:ILE:H	4:A:307:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:309:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:310:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:311:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:314:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:317:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:318:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:319:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:320:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:321:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:322:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:324:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:325:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:330:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:332:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:338:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:340:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:341:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:345:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:347:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:348:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:349:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:352:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:353:PX4:C35	13	3.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:A:61:ILE:H	4:A:357:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:401:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:402:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:403:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:404:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:405:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:406:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:409:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:413:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:414:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:417:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:419:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:423:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:424:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:425:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:426:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:427:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:428:PX4:C35	13	3.12
(3,6)	1:A:61:ILE:H	4:A:429:PX4:C35	13	3.12
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	13	3.12
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	12	3.12
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	20	3.12
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	1	3.11
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	1	3.11
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	1	3.11
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	14	3.11
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	2	3.1
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	19	3.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	19	3.09
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	19	3.09
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	19	3.07
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	19	3.07
(2,271)	1:A:135:MET:H	1:A:171:HIS:H	5	3.06
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	6	3.04
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	6	3.04
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	3	3.04
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	1	3.03
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	18	3.02
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	10	3.01
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	15	2.99
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	15	2.99
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	8	2.99
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	1	2.98
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	1	2.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	7	2.98
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	13	2.97
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	13	2.97
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	13	2.97
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	13	2.97
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	4	2.97
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	20	2.97
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	20	2.97
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	20	2.97
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	9	2.96
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	9	2.96
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	3	2.96
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	15	2.95
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	14	2.94
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	14	2.94
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	7	2.94
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	20	2.92
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	9	2.92
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	10	2.91
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	10	2.91
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	11	2.9
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	19	2.9
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	19	2.9
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	14	2.89
(2,870)	1:A:89:VAL:HG11	1:A:122:LEU:HD21	17	2.89
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	11	2.89
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	13	2.88
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	13	2.88
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	3	2.87
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	13	2.87
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	13	2.87
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	5	2.87
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	5	2.87
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	1	2.86
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	16	2.86
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	11	2.85
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	4	2.85
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	19	2.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	19	2.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	19	2.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	19	2.84
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	19	2.84
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	19	2.84
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	19	2.84
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	1	2.84
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	18	2.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	18	2.84
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	16	2.84
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	6	2.83
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	5	2.83
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	5	2.83
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	18	2.81
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	18	2.81
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	4	2.8
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	4	2.8
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	17	2.8
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	17	2.8
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	17	2.8
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	15	2.8
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	15	2.8
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	1	2.8
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	10	2.79
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	17	2.79
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	18	2.79
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	18	2.79
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	14	2.79
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	19	2.78
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	4	2.78
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	4	2.78
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	12	2.78
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	12	2.78
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	11	2.77
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	11	2.77
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	4	2.77
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	10	2.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	10	2.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	10	2.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	10	2.76
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	10	2.76
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	10	2.76
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	10	2.76
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	3	2.76
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	3	2.76
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	3	2.76
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	3	2.76
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	3	2.76
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	3	2.76
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	3	2.76
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	3	2.76
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	3	2.76
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	10	2.75
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	10	2.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	2	2.74
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	2	2.74
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	15	2.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	15	2.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	15	2.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	15	2.73
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	15	2.73
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	15	2.73
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	15	2.73
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	1	2.73
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	11	2.72
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	11	2.72
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	5	2.72
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	18	2.72
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	18	2.72
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	6	2.71
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	6	2.71
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	6	2.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	6	2.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	6	2.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	6	2.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	6	2.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	6	2.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	6	2.71
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	13	2.71
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	16	2.71
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	3	2.7
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	3	2.7
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	17	2.7
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	17	2.7
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	11	2.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	11	2.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	11	2.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	11	2.68
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	11	2.68
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	11	2.68
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	11	2.68
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	11	2.68
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	16	2.68
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	8	2.68
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	18	2.68
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	18	2.68
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	18	2.68
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	7	2.67
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	3	2.67
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	3	2.67
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	15	2.67
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	2	2.67
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	2	2.67
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	5	2.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	5	2.67
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	6	2.67
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	13	2.67
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	13	2.67
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	7	2.66
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	2	2.66
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	6	2.66
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	6	2.66
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	16	2.66
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	6	2.66
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	6	2.66
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	16	2.66
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	7	2.66
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	12	2.65
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	10	2.64
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	19	2.64
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	6	2.64
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	6	2.64
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	15	2.64
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	3	2.63
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	3	2.63
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	3	2.63
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	3	2.63
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	19	2.63
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	19	2.63
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	6	2.63
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	17	2.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	17	2.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	17	2.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	17	2.61
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	17	2.61
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	17	2.61
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	17	2.61
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	9	2.61
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	9	2.61
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	8	2.61
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	8	2.61
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	2	2.61
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	1	2.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	1	2.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	1	2.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	1	2.6
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	1	2.6
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	1	2.6
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	1	2.6
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	20	2.6
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	20	2.6
(2,1025)	1:A:58:VAL:HG12	1:A:54:LEU:HD21	7	2.6
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	17	2.59
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	17	2.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	2	2.59
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	8	2.59
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	16	2.59
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	16	2.59
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	16	2.59
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	7	2.58
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	7	2.58
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	16	2.58
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	20	2.58
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	14	2.58
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	12	2.58
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	13	2.58
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	13	2.58
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	9	2.57
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	4	2.57
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	7	2.57
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	15	2.57
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	18	2.56
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	18	2.56
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	17	2.56
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	1	2.56
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	10	2.56
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	20	2.56
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	20	2.56
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	7	2.56
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	7	2.56
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	7	2.56
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	10	2.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	10	2.55
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	10	2.55
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	5	2.55
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	8	2.55
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	17	2.55
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	17	2.55
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	17	2.55
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	16	2.54
(2,870)	1:A:89:VAL:HG11	1:A:122:LEU:HD21	7	2.54
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	13	2.54
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	8	2.54
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	1	2.53
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	6	2.53
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	6	2.53
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	6	2.53
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	6	2.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	7	2.53
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	7	2.53
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	14	2.53
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	13	2.52
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	11	2.52
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	11	2.52
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	10	2.52
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	10	2.52
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	16	2.52
(2,870)	1:A:89:VAL:HG11	1:A:122:LEU:HD21	5	2.51
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	7	2.51
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	11	2.51
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	11	2.51
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	5	2.51
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	5	2.51
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	20	2.51
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	6	2.5
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	6	2.5
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	17	2.5
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	2	2.5
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	16	2.5
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	16	2.5
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	6	2.49
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	8	2.48
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	13	2.48
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	9	2.48
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	6	2.48
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	10	2.48
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	10	2.48
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	12	2.47
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	12	2.47
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	12	2.47
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD11	3	2.47
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD12	3	2.47
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD13	3	2.47
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD11	14	2.47
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD12	14	2.47
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD13	14	2.47
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	3	2.47
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	3	2.47
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	17	2.46
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	17	2.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	17	2.46
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	5	2.46
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	5	2.46
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	6	2.45
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	13	2.45
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	13	2.45
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	13	2.45
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	13	2.45
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	8	2.45
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	8	2.45
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	17	2.45
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	9	2.45
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	9	2.45
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD11	13	2.44
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD12	13	2.44
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD13	13	2.44
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	10	2.44
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	1	2.44
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	1	2.44
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	1	2.44
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	5	2.43
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	20	2.42
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	7	2.42
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	7	2.42
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	18	2.42
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	18	2.42
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	18	2.42
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	20	2.42
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	13	2.41
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	13	2.41
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	13	2.41
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	13	2.41
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	13	2.41
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	13	2.41
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	13	2.41
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	13	2.41
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	13	2.41
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	7	2.41
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	19	2.41
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	19	2.4
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	7	2.4
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	11	2.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	11	2.39
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	11	2.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	3	2.39
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	5	2.39
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	5	2.39
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	18	2.39
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	10	2.39
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD11	6	2.39
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD12	6	2.39
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD13	6	2.39
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	13	2.39
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	18	2.38
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	1	2.38
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	1	2.38
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	5	2.38
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	15	2.38
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	9	2.37
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	17	2.37
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	17	2.37
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	5	2.37
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	12	2.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	12	2.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	12	2.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	12	2.36
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	12	2.36
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	12	2.36
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	12	2.36
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	4	2.36
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	3	2.36
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	3	2.36
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	3	2.36
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	19	2.36
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	3	2.35
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	20	2.35
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	12	2.35
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	12	2.35
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	17	2.34
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	12	2.34
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	12	2.34
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	12	2.34
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	2	2.34
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	13	2.33
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	3	2.33
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	6	2.33
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	3	2.33
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	6	2.33
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	6	2.33
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	6	2.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	8	2.33
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	2	2.33
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	2	2.33
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	5	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	5	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	5	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	5	2.32
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	5	2.32
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	5	2.32
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	5	2.32
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	17	2.32
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	1	2.32
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	3	2.32
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	9	2.32
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	7	2.32
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	7	2.32
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	5	2.31
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	7	2.31
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	12	2.31
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	4	2.31
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	4	2.31
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	1	2.31
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	9	2.31
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	12	2.31
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	9	2.31
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	18	2.31
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	8	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	8	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	8	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	8	2.3
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	8	2.3
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	8	2.3
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	8	2.3
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	4	2.3
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	16	2.3
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	16	2.3
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	10	2.3
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	10	2.3
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	20	2.3
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	2	2.3
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	6	2.3
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	6	2.3
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	3	2.29
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	19	2.29
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	8	2.29
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	8	2.29
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	8	2.29
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	2	2.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	2	2.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	2	2.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	2	2.28
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	2	2.28
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	2	2.28
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	2	2.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	1	2.28
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	9	2.28
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	9	2.28
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	18	2.28
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	18	2.28
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	13	2.27
(2,870)	1:A:89:VAL:HG11	1:A:122:LEU:HD21	12	2.27
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	8	2.27
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	8	2.27
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	8	2.27
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	1	2.27
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	1	2.27
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	7	2.26
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	13	2.26
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	20	2.26
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	20	2.26
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	14	2.25
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	14	2.25
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	11	2.25
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	11	2.25
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	20	2.25
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	20	2.25
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	20	2.24
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	1	2.24
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	1	2.24
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	9	2.24
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	3	2.24
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	11	2.23
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD11	16	2.23
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD12	16	2.23
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD13	16	2.23
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	4	2.22
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	4	2.22
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	17	2.22
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	17	2.22
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	14	2.22
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	5	2.22
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	1	2.21
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	7	2.21
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	7	2.21
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	3	2.21
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	1	2.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	9	2.2
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	16	2.2
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	16	2.2
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	7	2.19
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	19	2.18
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	19	2.18
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	16	2.18
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	4	2.18
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD11	9	2.18
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD12	9	2.18
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD13	9	2.18
(2,125)	1:A:45:PHE:H	1:A:48:LEU:HD21	3	2.18
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	9	2.17
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	9	2.17
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	9	2.17
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	9	2.17
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	8	2.17
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	8	2.17
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	8	2.17
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	10	2.17
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	11	2.17
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	15	2.16
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	12	2.15
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	20	2.15
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	20	2.15
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	16	2.15
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	7	2.14
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	7	2.14
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	7	2.14
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	7	2.14
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	7	2.14
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	7	2.14
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	7	2.14
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	10	2.14
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD22	16	2.13
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD23	16	2.13
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	7	2.13
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	7	2.13
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	15	2.13
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	7	2.13
(2,235)	1:A:84:TRP:H	1:A:200:LEU:HD21	18	2.13
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	16	2.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	16	2.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	16	2.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	16	2.12
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	16	2.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	16	2.12
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	16	2.12
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	16	2.12
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	17	2.12
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD22	20	2.12
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD23	20	2.12
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	7	2.12
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	7	2.12
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	11	2.12
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	7	2.12
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	7	2.12
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	11	2.12
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	9	2.12
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	1	2.12
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	3	2.11
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	3	2.11
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	8	2.11
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	2	2.11
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	3	2.11
(2,1027)	1:A:58:VAL:HG13	1:A:54:LEU:HD21	10	2.11
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD22	16	2.1
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	16	2.1
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	11	2.1
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	11	2.1
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	11	2.09
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	6	2.09
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	6	2.09
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	10	2.09
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	10	2.09
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	18	2.09
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	9	2.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	9	2.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	9	2.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	9	2.08
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	9	2.08
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	9	2.08
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	9	2.08
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	13	2.08
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	13	2.08
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	13	2.08
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	4	2.08
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	4	2.08
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	15	2.07
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	2	2.07
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	14	2.07
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	2	2.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	14	2.07
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	12	2.07
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	12	2.07
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	1	2.07
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	1	2.07
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	18	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	18	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	18	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	18	2.06
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	18	2.06
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	18	2.06
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	20	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	20	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	20	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	20	2.06
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	20	2.06
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	20	2.06
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	20	2.06
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	6	2.06
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	12	2.06
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	12	2.06
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	7	2.06
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	7	2.06
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	14	2.05
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	2	2.05
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	2	2.05
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	6	2.05
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	6	2.05
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	11	2.05
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	11	2.05
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	18	2.05
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	18	2.05
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	6	2.05
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	6	2.05
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	11	2.05
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	11	2.05
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	18	2.05
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	18	2.05
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	7	2.05
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	17	2.05
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	17	2.05
(2,501)	1:A:158:HIS:H	1:A:156:LEU:H	4	2.05
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	5	2.05
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	20	2.05
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	20	2.05
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	8	2.05
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	14	2.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	14	2.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	14	2.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	14	2.05
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	14	2.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	2	2.04
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	2	2.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	2	2.04
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	10	2.04
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	5	2.04
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	3	2.04
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	3	2.04
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	3	2.04
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	9	2.04
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	1	2.04
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	1	2.04
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	1	2.04
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	5	2.03
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	5	2.03
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	13	2.03
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	8	2.03
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	2	2.03
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	4	2.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	4	2.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	4	2.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	4	2.02
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	4	2.02
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	4	2.02
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	4	2.02
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	17	2.02
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	17	2.02
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	19	2.02
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	5	2.02
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	5	2.02
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	16	2.02
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	2	2.02
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	11	2.01
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	4	2.01
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	15	2.01
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	15	2.01
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	3	2.01
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	3	2.01
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	3	2.01
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	11	2.0
(2,872)	1:A:89:VAL:HG12	1:A:122:LEU:HD21	7	2.0
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	5	2.0
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	5	2.0
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	15	2.0
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	15	2.0
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	13	2.0
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	13	2.0
(2,1027)	1:A:58:VAL:HG13	1:A:54:LEU:HD21	7	2.0
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	19	1.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	19	1.99
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	15	1.99
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	14	1.99
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	14	1.99
(2,1023)	1:A:58:VAL:HG11	1:A:54:LEU:HD21	17	1.99
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	19	1.98
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	19	1.98
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	4	1.98
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	4	1.98
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	4	1.98
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	4	1.98
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	14	1.98
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	14	1.98
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	14	1.98
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	14	1.98
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	14	1.98
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	14	1.98
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	14	1.98
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	14	1.98
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	14	1.98
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	13	1.98
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	13	1.98
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	13	1.98
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	19	1.98
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	15	1.98
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	15	1.98
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	15	1.98
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	16	1.98
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	16	1.98
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	16	1.98
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	8	1.97
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	8	1.97
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	8	1.97
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	8	1.97
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD11	8	1.97
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD12	8	1.97
(2,603)	1:A:186:ILE:H	1:A:156:LEU:HD13	8	1.97
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	5	1.96
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	5	1.96
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	16	1.96
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	16	1.96
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	5	1.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	17	1.96
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	13	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	13	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	13	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	13	1.95
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	13	1.95
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	13	1.95
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	13	1.95
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	14	1.95
(2,872)	1:A:89:VAL:HG12	1:A:122:LEU:HD21	20	1.95
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	11	1.94
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	11	1.94
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	11	1.94
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	11	1.94
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	1	1.94
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	1	1.94
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	2	1.94
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	2	1.94
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	18	1.94
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	18	1.94
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	17	1.94
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	3	1.94
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	3	1.94
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	6	1.93
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	6	1.93
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	8	1.93
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	8	1.93
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	15	1.93
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	15	1.93
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD22	4	1.92
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD23	4	1.92
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	9	1.92
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	9	1.92
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	9	1.92
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	9	1.92
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	9	1.92
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	9	1.92
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	9	1.92
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	9	1.92
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	9	1.92
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	2	1.92
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	2	1.92
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	2	1.92
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	14	1.92
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	14	1.92
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	14	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	7	1.92
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	14	1.92
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	18	1.91
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	18	1.91
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	2	1.91
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	14	1.9
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	14	1.9
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	19	1.9
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	10	1.89
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	10	1.89
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	1	1.89
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	1	1.89
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	20	1.89
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	20	1.89
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	18	1.89
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	18	1.89
(2,870)	1:A:89:VAL:HG11	1:A:122:LEU:HD21	4	1.88
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	9	1.88
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	9	1.88
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	7	1.88
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	3	1.87
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	16	1.87
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	16	1.87
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	10	1.87
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	10	1.87
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	10	1.87
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	8	1.87
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	8	1.87
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	8	1.87
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	19	1.87
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	19	1.87
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	19	1.87
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	7	1.86
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	20	1.86
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	14	1.86
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	14	1.86
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	9	1.86
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	3	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	3	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	3	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	3	1.84
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	3	1.84
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	3	1.84
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	3	1.84
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	12	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	12	1.84
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	12	1.84
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	11	1.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,807)	1:A:61:ILE:HD12	1:A:48:LEU:HD21	4	1.83
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	7	1.83
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	7	1.83
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	15	1.83
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	15	1.83
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	15	1.83
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	13	1.82
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	1	1.82
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	19	1.82
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	19	1.82
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	8	1.82
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	8	1.82
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	3	1.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	3	1.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	3	1.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	3	1.82
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	3	1.82
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	17	1.81
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	17	1.81
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	17	1.81
(2,769)	1:A:19:LEU:HD21	1:A:17:ASP:H	6	1.81
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	14	1.81
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	18	1.81
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	14	1.81
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	14	1.81
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	14	1.81
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD22	17	1.81
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD23	17	1.81
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	13	1.8
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	13	1.8
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	17	1.8
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	14	1.8
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	14	1.8
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	13	1.8
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	13	1.8
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	17	1.8
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	14	1.8
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	14	1.8
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	5	1.79
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	14	1.79
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	5	1.79
(2,64)	1:A:205:SER:H	1:A:204:HIS:HE1	8	1.79
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	12	1.79
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	19	1.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	19	1.79
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	19	1.79
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	12	1.79
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	1	1.79
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	17	1.79
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	17	1.79
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	10	1.79
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	10	1.79
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	10	1.79
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	10	1.79
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	10	1.79
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	10	1.79
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	10	1.79
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	10	1.79
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	10	1.79
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	4	1.78
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	4	1.78
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	3	1.78
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	9	1.78
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	9	1.78
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	14	1.78
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	14	1.78
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	19	1.78
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	18	1.78
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	6	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	6	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	6	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	6	1.77
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	6	1.77
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	6	1.77
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	6	1.77
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	16	1.77
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	18	1.77
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	18	1.77
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	18	1.77
(2,764)	1:A:19:LEU:HD22	1:A:40:LYS:H	6	1.77
(2,764)	1:A:19:LEU:HD23	1:A:40:LYS:H	6	1.77
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	13	1.77
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	13	1.77
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	13	1.77
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	9	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	9	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	9	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	9	1.77
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	9	1.77
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	20	1.76
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	20	1.76
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	12	1.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	12	1.76
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	12	1.76
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	16	1.76
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	19	1.76
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	19	1.76
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD22	7	1.75
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD23	7	1.75
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	2	1.75
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	2	1.75
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	14	1.75
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	20	1.75
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	12	1.75
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	15	1.75
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	1	1.74
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	11	1.74
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	11	1.74
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	1	1.74
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	11	1.74
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	11	1.74
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	11	1.74
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	6	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	6	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	6	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	6	1.74
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	6	1.74
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	7	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	7	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	7	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	7	1.73
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	7	1.73
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	7	1.73
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	7	1.73
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	10	1.73
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	10	1.73
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	12	1.73
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	20	1.73
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	5	1.73
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	5	1.73
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	5	1.73
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	15	1.73
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	15	1.73
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	6	1.73
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	17	1.73
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	5	1.72
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	9	1.72
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	9	1.72
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	9	1.72
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	15	1.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	2	1.71
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	14	1.71
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	14	1.71
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	2	1.71
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	2	1.71
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	2	1.71
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	2	1.71
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	2	1.71
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	2	1.71
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	2	1.71
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	2	1.71
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	2	1.71
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	3	1.7
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	7	1.7
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	7	1.7
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	17	1.7
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	17	1.7
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	20	1.7
(2,870)	1:A:89:VAL:HG11	1:A:122:LEU:HD21	16	1.69
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	1	1.69
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	9	1.69
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	9	1.69
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	9	1.69
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	13	1.69
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	13	1.69
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	13	1.69
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	1	1.69
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	1	1.69
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	1	1.68
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	13	1.68
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	13	1.68
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	1	1.68
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	13	1.68
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	13	1.68
(2,588)	1:A:179:THR:H	1:A:100:LEU:HD21	7	1.68
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	10	1.68
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	16	1.67
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	16	1.67
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	16	1.67
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	16	1.67
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	1	1.67
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	1	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	16	1.67
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	16	1.67
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	16	1.67
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	9	1.67
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	2	1.67
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	2	1.67
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	10	1.67
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	11	1.66
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	6	1.66
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	7	1.66
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	6	1.66
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	13	1.65
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	13	1.65
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	11	1.65
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	11	1.65
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	7	1.65
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	7	1.65
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	14	1.65
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD22	20	1.64
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	20	1.64
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	10	1.64
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	3	1.64
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	3	1.64
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	19	1.64
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	4	1.64
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	16	1.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	16	1.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	16	1.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	16	1.64
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	16	1.64
(3,44)	1:A:34:SER:H	4:A:307:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:307:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:307:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:309:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:309:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:309:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:310:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:310:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:310:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:311:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:311:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:311:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:314:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:314:PX4:C4	14	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:314:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:317:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:317:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:317:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:318:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:318:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:318:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:319:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:319:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:319:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:320:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:320:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:320:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:321:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:321:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:321:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:322:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:322:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:322:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:324:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:324:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:324:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:325:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:325:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:325:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:330:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:330:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:330:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:332:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:332:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:332:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:338:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:338:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:338:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:340:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:340:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:340:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:341:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:341:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:341:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:345:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:345:PX4:C4	14	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:345:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:347:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:347:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:347:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:348:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:348:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:348:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:349:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:349:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:349:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:352:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:352:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:352:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:353:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:353:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:353:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:357:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:357:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:357:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:401:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:401:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:401:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:402:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:402:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:402:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:403:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:403:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:403:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:404:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:404:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:404:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:405:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:405:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:405:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:406:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:406:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:406:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:409:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:409:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:409:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:413:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:413:PX4:C4	14	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,44)	1:A:34:SER:H	4:A:413:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:414:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:414:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:414:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:417:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:417:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:417:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:419:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:419:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:419:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:423:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:423:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:423:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:424:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:424:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:424:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:425:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:425:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:425:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:426:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:426:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:426:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:427:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:427:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:427:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:428:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:428:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:428:PX4:C5	14	1.63
(3,44)	1:A:34:SER:H	4:A:429:PX4:C3	14	1.63
(3,44)	1:A:34:SER:H	4:A:429:PX4:C4	14	1.63
(3,44)	1:A:34:SER:H	4:A:429:PX4:C5	14	1.63
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	12	1.63
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	11	1.63
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	2	1.63
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	2	1.63
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	2	1.63
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	4	1.63
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	12	1.62
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	12	1.62
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	8	1.62
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	11	1.62
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	4	1.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	4	1.62
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	4	1.62
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	9	1.61
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	9	1.61
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	13	1.61
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	13	1.61
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	19	1.61
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	19	1.61
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	19	1.61
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	3	1.61
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	10	1.61
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	16	1.61
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	16	1.61
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	16	1.61
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	11	1.6
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	11	1.6
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	11	1.6
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	11	1.6
(2,1028)	1:A:58:VAL:HG13	1:A:54:LEU:HD22	10	1.6
(2,1028)	1:A:58:VAL:HG13	1:A:54:LEU:HD23	10	1.6
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	3	1.59
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	1	1.59
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	18	1.58
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	5	1.58
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	16	1.58
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	16	1.58
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	16	1.58
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	16	1.58
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	8	1.58
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	9	1.58
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	9	1.58
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	9	1.58
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	19	1.58
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	19	1.58
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	19	1.58
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	19	1.58
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	19	1.58
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	19	1.58
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	19	1.58
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	19	1.58
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	19	1.58
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD22	1	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	1	1.57
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	4	1.57
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	4	1.57
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	17	1.57
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	6	1.57
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	6	1.57
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	6	1.57
(2,1025)	1:A:58:VAL:HG12	1:A:54:LEU:HD21	17	1.57
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	7	1.56
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	7	1.56
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	12	1.56
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	12	1.56
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	9	1.56
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	13	1.56
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	7	1.56
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	19	1.56
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	7	1.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	7	1.55
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	7	1.55
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	19	1.55
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	1	1.55
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	1	1.55
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	19	1.55
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	1	1.55
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	1	1.55
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	5	1.55
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	4	1.55
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	4	1.55
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	4	1.55
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	15	1.55
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	15	1.55
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	15	1.55
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	13	1.55
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	20	1.55
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	8	1.55
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	8	1.55
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	20	1.55
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	20	1.55
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	20	1.55
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	20	1.54
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	3	1.54
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	20	1.54
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	9	1.54
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	8	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	12	1.54
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	17	1.54
(2,235)	1:A:84:TRP:H	1:A:200:LEU:HD21	9	1.54
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	6	1.54
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	6	1.54
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	18	1.54
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	1	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	1	1.53
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	5	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	5	1.53
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	5	1.53
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	10	1.53
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	14	1.53
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	14	1.53
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	20	1.53
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD22	7	1.53
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD23	7	1.53
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	17	1.53
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	17	1.53
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	17	1.53
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	17	1.53
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	17	1.53
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	17	1.53
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	17	1.53
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	17	1.53
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	17	1.53
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	7	1.52
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	16	1.52
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	1	1.52
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	6	1.52
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	4	1.52
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	4	1.52
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	12	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	12	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	12	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	12	1.52
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	12	1.52
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	2	1.51
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	11	1.51
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	5	1.51
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	5	1.51
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD22	5	1.51
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD23	5	1.51
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	12	1.51
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	12	1.51
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	14	1.51
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	14	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	14	1.51
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	11	1.51
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	11	1.51
(2,872)	1:A:89:VAL:HG12	1:A:122:LEU:HD21	17	1.5
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	3	1.5
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	3	1.5
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	17	1.5
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	1	1.5
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	2	1.5
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	10	1.5
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	9	1.49
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	9	1.49
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	9	1.49
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	9	1.49
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	3	1.49
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	3	1.49
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	20	1.49
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	20	1.49
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	2	1.49
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	20	1.49
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	13	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	13	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	13	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	13	1.49
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	13	1.49
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	7	1.48
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	1	1.48
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	4	1.48
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	7	1.48
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	18	1.47
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	2	1.47
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	2	1.47
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	6	1.47
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	19	1.47
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	3	1.47
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	18	1.47
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	18	1.47
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	18	1.47
(2,235)	1:A:84:TRP:H	1:A:200:LEU:HD21	13	1.47
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	18	1.46
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	18	1.46
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	18	1.46
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	18	1.46
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	13	1.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	8	1.46
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	19	1.45
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	5	1.45
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	18	1.45
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	4	1.45
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	4	1.45
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	16	1.44
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	20	1.44
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	4	1.44
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	4	1.44
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	13	1.44
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	16	1.44
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	1	1.44
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	1	1.44
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	1	1.44
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	1	1.44
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	1	1.44
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	1	1.44
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	1	1.44
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	1	1.44
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	1	1.44
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	20	1.43
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	7	1.43
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	13	1.43
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	13	1.43
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	4	1.43
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	14	1.43
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	13	1.43
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	2	1.43
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	18	1.43
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	18	1.43
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	4	1.43
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	4	1.43
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	5	1.43
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	5	1.43
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	5	1.43
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	5	1.43
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	5	1.43
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	5	1.43
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	5	1.43
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	5	1.43
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	5	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	4	1.42
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	12	1.42
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD22	4	1.41
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD23	4	1.41
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD22	7	1.41
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD23	7	1.41
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	12	1.41
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	17	1.4
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	5	1.4
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	20	1.4
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	11	1.4
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	9	1.4
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	9	1.4
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	3	1.4
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	3	1.4
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	14	1.4
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	8	1.4
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	16	1.4
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	2	1.4
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	2	1.4
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	2	1.4
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	20	1.4
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	20	1.4
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	20	1.4
(3,22)	1:A:144:GLY:H	4:A:307:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:309:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:310:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:311:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:314:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:317:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:318:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:319:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:320:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:321:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:322:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:324:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:325:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:330:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:332:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:338:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:340:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:341:PX4:C35	10	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,22)	1:A:144:GLY:H	4:A:345:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:347:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:348:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:349:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:352:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:353:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:357:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:401:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:402:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:403:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:404:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:405:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:406:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:409:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:413:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:414:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:417:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:419:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:423:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:424:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:425:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:426:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:427:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:428:PX4:C35	10	1.39
(3,22)	1:A:144:GLY:H	4:A:429:PX4:C35	10	1.39
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	7	1.39
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	7	1.39
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	15	1.39
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	9	1.39
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	7	1.39
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	7	1.39
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	7	1.39
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	2	1.39
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	5	1.39
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	4	1.39
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	12	1.39
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	12	1.39
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	20	1.38
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	18	1.38
(2,348)	1:A:189:LEU:HD22	1:A:112:ALA:H	7	1.38
(2,348)	1:A:189:LEU:HD23	1:A:112:ALA:H	7	1.38
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	15	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,872)	1:A:89:VAL:HG12	1:A:122:LEU:HD21	5	1.37
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	6	1.37
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	17	1.37
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	15	1.37
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	14	1.37
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	4	1.36
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	6	1.36
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	6	1.36
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	4	1.36
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	7	1.36
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	1	1.36
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	17	1.36
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	19	1.36
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	20	1.36
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	20	1.36
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	20	1.36
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	9	1.36
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	13	1.36
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	15	1.36
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	15	1.36
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	15	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	15	1.35
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	15	1.35
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	4	1.35
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	10	1.35
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	19	1.35
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	20	1.35
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD22	8	1.35
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD23	8	1.35
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	14	1.35
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	1	1.35
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	1	1.35
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	1	1.35
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	17	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	17	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	17	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	17	1.35
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	17	1.35
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	4	1.34
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	4	1.34
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	4	1.34
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	4	1.34
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	10	1.34
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	5	1.34
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	17	1.34
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	4	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	1	1.33
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	14	1.33
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	3	1.33
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	3	1.33
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	14	1.33
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	3	1.33
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	3	1.33
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	4	1.33
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	4	1.33
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	6	1.33
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD22	8	1.33
(2,126)	1:A:45:PHE:H	1:A:48:LEU:HD23	8	1.33
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	20	1.33
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	20	1.33
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	20	1.33
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	20	1.33
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	20	1.33
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	20	1.33
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	20	1.33
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	20	1.33
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	20	1.33
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD22	3	1.32
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD23	3	1.32
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	6	1.32
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	6	1.32
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	12	1.32
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	12	1.32
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	8	1.32
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	17	1.32
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	6	1.32
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	6	1.32
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	4	1.32
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	15	1.31
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	18	1.31
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	18	1.31
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	11	1.31
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	17	1.31
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	17	1.31
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	11	1.3
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	13	1.3
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	13	1.3
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	6	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	6	1.3
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	18	1.3
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	12	1.3
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	12	1.3
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	11	1.3
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	16	1.3
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	16	1.3
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	3	1.3
(2,1023)	1:A:58:VAL:HG11	1:A:54:LEU:HD21	10	1.3
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	11	1.29
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	14	1.29
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	7	1.29
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD22	6	1.28
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	6	1.28
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	6	1.28
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	6	1.28
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	7	1.28
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	11	1.28
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	11	1.28
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	16	1.28
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	14	1.28
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	19	1.28
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	2	1.28
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	1	1.28
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	2	1.28
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD22	17	1.28
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD23	17	1.28
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD22	11	1.27
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD23	11	1.27
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	5	1.27
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	20	1.27
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	20	1.27
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	14	1.27
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	19	1.27
(2,996)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	7	1.26
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	12	1.26
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	12	1.26
(2,235)	1:A:84:TRP:H	1:A:200:LEU:HD21	14	1.26
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	11	1.26
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	15	1.26
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	7	1.25
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	6	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	1	1.25
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	1	1.25
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	2	1.25
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	5	1.25
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	5	1.25
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	4	1.25
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	4	1.25
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	3	1.25
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	14	1.25
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	6	1.25
(2,996)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	20	1.24
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	3	1.24
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	13	1.24
(2,762)	1:A:19:LEU:HD22	1:A:38:LYS:H	6	1.24
(2,762)	1:A:19:LEU:HD23	1:A:38:LYS:H	6	1.24
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD11	4	1.24
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD12	4	1.24
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD13	4	1.24
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	15	1.24
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	20	1.24
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	20	1.24
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	20	1.24
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	18	1.24
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	17	1.24
(3,23)	1:A:145:ASP:H	4:A:307:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:309:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:310:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:311:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:314:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:317:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:318:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:319:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:320:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:321:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:322:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:324:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:325:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:330:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:332:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:338:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:340:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:341:PX4:C35	10	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:A:145:ASP:H	4:A:345:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:347:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:348:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:349:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:352:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:353:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:357:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:401:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:402:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:403:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:404:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:405:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:406:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:409:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:413:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:414:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:417:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:419:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:423:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:424:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:425:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:426:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:427:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:428:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:429:PX4:C35	10	1.23
(3,23)	1:A:145:ASP:H	4:A:307:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:309:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:310:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:311:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:314:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:317:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:318:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:319:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:320:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:321:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:322:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:324:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:325:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:330:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:332:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:338:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:340:PX4:C35	18	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:A:145:ASP:H	4:A:341:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:345:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:347:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:348:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:349:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:352:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:353:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:357:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:401:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:402:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:403:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:404:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:405:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:406:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:409:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:413:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:414:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:417:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:419:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:423:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:424:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:425:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:426:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:427:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:428:PX4:C35	18	1.23
(3,23)	1:A:145:ASP:H	4:A:429:PX4:C35	18	1.23
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	3	1.23
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	3	1.23
(2,835)	1:A:84:TRP:HE1	1:A:200:LEU:HD21	18	1.23
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	3	1.23
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	3	1.23
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	4	1.23
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	18	1.23
(2,237)	1:A:84:TRP:HE1	1:A:200:LEU:HD21	18	1.23
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD22	9	1.22
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD23	9	1.22
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	11	1.22
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	11	1.22
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	4	1.22
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	4	1.22
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	3	1.22
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	18	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	9	1.22
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	9	1.22
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	2	1.22
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	2	1.22
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	8	1.22
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	12	1.22
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	12	1.22
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	12	1.22
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	19	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	19	1.21
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	19	1.21
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	14	1.21
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	8	1.21
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	16	1.21
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	18	1.21
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	18	1.21
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	5	1.21
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	12	1.21
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	17	1.21
(2,1023)	1:A:58:VAL:HG11	1:A:54:LEU:HD21	5	1.21
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	3	1.2
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	3	1.2
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	2	1.2
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	2	1.2
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	10	1.2
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	12	1.2
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	12	1.2
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD22	11	1.2
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD23	11	1.2
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	13	1.2
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	4	1.2
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	20	1.19
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	20	1.19
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	12	1.19
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	12	1.19
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	14	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	14	1.19
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	14	1.19
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	13	1.18
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	13	1.18
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	8	1.18
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	6	1.18
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	9	1.17
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	17	1.17
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	17	1.17
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	10	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	10	1.17
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	10	1.17
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	10	1.17
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	7	1.17
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	7	1.17
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	7	1.17
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	9	1.17
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	9	1.17
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	19	1.17
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	12	1.17
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	11	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	11	1.16
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	11	1.16
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	19	1.16
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	10	1.16
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	10	1.16
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	14	1.16
(2,1029)	1:A:54:LEU:HD21	1:A:39:LEU:HD11	16	1.16
(2,1029)	1:A:54:LEU:HD21	1:A:39:LEU:HD12	16	1.16
(2,1029)	1:A:54:LEU:HD21	1:A:39:LEU:HD13	16	1.16
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	11	1.15
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	4	1.15
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	8	1.15
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	20	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	20	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	20	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	20	1.15
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	20	1.15
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	20	1.14
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	8	1.14
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	5	1.14
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	16	1.14
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	16	1.14
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	9	1.14
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	4	1.14
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	15	1.14
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	17	1.14
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD22	13	1.14
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD23	13	1.14
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	17	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	17	1.13
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	17	1.13
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	6	1.13
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	16	1.13
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	14	1.13
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	14	1.13
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	15	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	15	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	15	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	15	1.13
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	15	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	15	1.13
(2,994)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	17	1.12
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	17	1.12
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	17	1.12
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	17	1.12
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	17	1.12
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	6	1.12
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	1	1.12
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	7	1.11
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	2	1.11
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	6	1.11
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	6	1.11
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	10	1.11
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	6	1.11
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	6	1.11
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	10	1.11
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	2	1.11
(2,588)	1:A:179:THR:H	1:A:100:LEU:HD21	13	1.11
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	2	1.11
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	13	1.11
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	5	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	5	1.11
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	5	1.11
(3,22)	1:A:144:GLY:H	4:A:307:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:309:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:310:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:311:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:314:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:317:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:318:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:319:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:320:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:321:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:322:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:324:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:325:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:330:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:332:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:338:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:340:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:341:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:345:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:347:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:348:PX4:C35	4	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,22)	1:A:144:GLY:H	4:A:349:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:352:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:353:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:357:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:401:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:402:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:403:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:404:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:405:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:406:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:409:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:413:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:414:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:417:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:419:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:423:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:424:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:425:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:426:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:427:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:428:PX4:C35	4	1.1
(3,22)	1:A:144:GLY:H	4:A:429:PX4:C35	4	1.1
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	20	1.1
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	20	1.1
(2,872)	1:A:89:VAL:HG12	1:A:122:LEU:HD21	12	1.1
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	12	1.1
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	12	1.1
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	12	1.1
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	12	1.1
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	10	1.1
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	12	1.1
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	14	1.1
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	17	1.1
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	6	1.09
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	6	1.09
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	6	1.09
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	9	1.09
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	6	1.09
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	7	1.09
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	7	1.09
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	7	1.09
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	12	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	3	1.09
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	8	1.09
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	1	1.08
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	1	1.08
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	10	1.08
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	1	1.08
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	1	1.08
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	10	1.08
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	3	1.08
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	11	1.08
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	10	1.08
(2,464)	1:A:137:GLY:H	1:A:135:MET:H	8	1.08
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	7	1.08
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	20	1.08
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	12	1.08
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	4	1.08
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	4	1.08
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	4	1.08
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	4	1.08
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	4	1.08
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	4	1.08
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	4	1.08
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	4	1.08
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	4	1.08
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	3	1.07
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	16	1.07
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	7	1.07
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	7	1.07
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	2	1.07
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	2	1.07
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	17	1.07
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	18	1.07
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	18	1.07
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	16	1.07
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	11	1.07
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	12	1.07
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	12	1.07
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	8	1.06
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	6	1.06
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	8	1.06
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	8	1.06
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	13	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	10	1.06
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	1	1.06
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	15	1.06
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD11	18	1.05
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD12	18	1.05
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD13	18	1.05
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	20	1.05
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	20	1.05
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	5	1.05
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	15	1.05
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	9	1.05
(2,1025)	1:A:58:VAL:HG12	1:A:54:LEU:HD21	10	1.05
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	10	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	10	1.04
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	10	1.04
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	14	1.04
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	14	1.04
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	14	1.04
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	14	1.04
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	18	1.04
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	8	1.04
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	9	1.04
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	8	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	8	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	8	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	8	1.04
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	8	1.04
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD22	10	1.04
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD23	10	1.04
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	15	1.04
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	15	1.04
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	15	1.04
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	15	1.04
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	15	1.04
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	15	1.04
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	15	1.04
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	15	1.04
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	15	1.04
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD22	3	1.03
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	3	1.03
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	18	1.03
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	16	1.03
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	16	1.03
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	15	1.03
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	9	1.03
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	9	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	17	1.03
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD22	15	1.02
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD23	15	1.02
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	5	1.02
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	15	1.02
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	5	1.02
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	7	1.02
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	4	1.02
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	3	1.02
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	1	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	1	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	1	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	1	1.02
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	1	1.02
(2,1027)	1:A:58:VAL:HG13	1:A:54:LEU:HD21	17	1.02
(2,994)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	11	1.01
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	10	1.01
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	11	1.01
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	15	1.01
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	15	1.01
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	10	1.01
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	10	1.01
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	7	1.01
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	7	1.01
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	6	1.01
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	6	1.01
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	10	1.01
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	11	1.01
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD11	5	1.01
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD12	5	1.01
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD13	5	1.01
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	4	1.0
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	4	1.0
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	14	1.0
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	16	1.0
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	15	1.0
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	15	1.0
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	11	1.0
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	14	1.0
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	7	1.0
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	7	1.0
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	7	1.0
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	7	1.0
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	7	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	7	1.0
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	7	1.0
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	7	1.0
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	7	1.0
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	10	0.99
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	1	0.99
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	1	0.99
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	4	0.99
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	4	0.99
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	12	0.99
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	12	0.99
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD22	20	0.99
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD23	20	0.99
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	8	0.99
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	12	0.99
(2,341)	1:A:189:LEU:HD21	1:A:111:LYS:H	9	0.99
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	18	0.99
(2,235)	1:A:84:TRP:H	1:A:200:LEU:HD21	6	0.99
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	8	0.98
(2,764)	1:A:19:LEU:HD22	1:A:40:LYS:H	11	0.98
(2,764)	1:A:19:LEU:HD23	1:A:40:LYS:H	11	0.98
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	4	0.98
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	4	0.98
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	13	0.98
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	13	0.98
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	13	0.98
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	2	0.97
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	5	0.97
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	20	0.97
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	19	0.97
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	15	0.97
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD22	12	0.97
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD23	12	0.97
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD11	12	0.97
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD12	12	0.97
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD13	12	0.97
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	7	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	7	0.97
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	7	0.97
(3,23)	1:A:145:ASP:H	4:A:307:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:309:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:310:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:311:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:314:PX4:C35	4	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:A:145:ASP:H	4:A:317:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:318:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:319:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:320:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:321:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:322:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:324:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:325:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:330:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:332:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:338:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:340:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:341:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:345:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:347:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:348:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:349:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:352:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:353:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:357:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:401:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:402:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:403:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:404:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:405:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:406:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:409:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:413:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:414:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:417:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:419:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:423:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:424:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:425:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:426:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:427:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:428:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:429:PX4:C35	4	0.96
(3,23)	1:A:145:ASP:H	4:A:307:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:309:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:310:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:311:PX4:C35	11	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:A:145:ASP:H	4:A:314:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:317:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:318:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:319:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:320:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:321:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:322:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:324:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:325:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:330:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:332:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:338:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:340:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:341:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:345:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:347:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:348:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:349:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:352:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:353:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:357:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:401:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:402:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:403:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:404:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:405:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:406:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:409:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:413:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:414:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:417:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:419:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:423:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:424:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:425:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:426:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:427:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:428:PX4:C35	11	0.96
(3,23)	1:A:145:ASP:H	4:A:429:PX4:C35	11	0.96
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	19	0.96
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	12	0.96
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	12	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	12	0.96
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	12	0.96
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	12	0.96
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	12	0.96
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	12	0.96
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	12	0.96
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	12	0.96
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	4	0.96
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	19	0.96
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	9	0.96
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	6	0.96
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	6	0.96
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	7	0.95
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	14	0.95
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	14	0.95
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	15	0.95
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	15	0.95
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	11	0.95
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	11	0.95
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	11	0.95
(2,604)	1:A:186:ILE:H	1:A:156:LEU:HD21	16	0.95
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	16	0.95
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	16	0.95
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	16	0.95
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	1	0.95
(2,1027)	1:A:58:VAL:HG13	1:A:54:LEU:HD21	4	0.95
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD22	7	0.95
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD23	7	0.95
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	15	0.94
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	15	0.94
(2,872)	1:A:89:VAL:HG12	1:A:122:LEU:HD21	4	0.94
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	9	0.94
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	9	0.94
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	8	0.94
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	8	0.94
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	10	0.94
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	10	0.94
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	10	0.94
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	10	0.94
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	19	0.94
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	1	0.94
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	3	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	16	0.94
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	7	0.94
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	16	0.94
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	16	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	16	0.93
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	16	0.93
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	2	0.93
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	18	0.93
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	18	0.93
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	18	0.93
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	18	0.93
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	18	0.93
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	18	0.93
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	18	0.93
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	18	0.93
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	18	0.93
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	13	0.93
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	11	0.93
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	7	0.93
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	9	0.93
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	9	0.93
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	9	0.93
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	7	0.93
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	9	0.93
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	9	0.93
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	7	0.93
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	6	0.93
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	7	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	7	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	7	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	7	0.93
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	7	0.93
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	20	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	20	0.92
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	20	0.92
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	7	0.92
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	4	0.92
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	1	0.92
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	7	0.92
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	17	0.92
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	4	0.92
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	12	0.92
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	11	0.92
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	9	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	9	0.92
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	9	0.92
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD22	8	0.92
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD23	8	0.92
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD22	13	0.91
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	13	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	16	0.91
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	16	0.91
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	20	0.91
(2,870)	1:A:89:VAL:HG11	1:A:122:LEU:HD21	10	0.91
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	6	0.91
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	11	0.91
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	20	0.91
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	10	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	10	0.91
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	10	0.91
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	1	0.9
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	8	0.9
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	8	0.9
(2,835)	1:A:84:TRP:HE1	1:A:200:LEU:HD21	19	0.9
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	8	0.9
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	8	0.9
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD22	16	0.9
(2,808)	1:A:61:ILE:HD12	1:A:48:LEU:HD23	16	0.9
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD22	14	0.9
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD23	14	0.9
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	8	0.9
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	2	0.9
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	13	0.9
(2,237)	1:A:84:TRP:HE1	1:A:200:LEU:HD21	19	0.9
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	10	0.9
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	6	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	6	0.9
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	6	0.9
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	1	0.89
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	7	0.89
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	7	0.89
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	7	0.89
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	19	0.89
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	19	0.89
(2,770)	1:A:19:LEU:HD22	1:A:17:ASP:H	6	0.89
(2,770)	1:A:19:LEU:HD23	1:A:17:ASP:H	6	0.89
(2,764)	1:A:19:LEU:HD22	1:A:40:LYS:H	3	0.89
(2,764)	1:A:19:LEU:HD23	1:A:40:LYS:H	3	0.89
(2,588)	1:A:179:THR:H	1:A:100:LEU:HD21	16	0.89
(2,540)	1:A:169:ASP:H	1:A:166:LEU:HD21	14	0.89
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	3	0.89
(3,22)	1:A:144:GLY:H	4:A:307:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:309:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:310:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:311:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:314:PX4:C35	8	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,22)	1:A:144:GLY:H	4:A:317:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:318:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:319:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:320:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:321:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:322:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:324:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:325:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:330:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:332:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:338:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:340:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:341:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:345:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:347:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:348:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:349:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:352:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:353:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:357:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:401:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:402:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:403:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:404:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:405:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:406:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:409:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:413:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:414:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:417:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:419:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:423:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:424:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:425:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:426:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:427:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:428:PX4:C35	8	0.88
(3,22)	1:A:144:GLY:H	4:A:429:PX4:C35	8	0.88
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD22	12	0.88
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD23	12	0.88
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	19	0.88
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	19	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	19	0.88
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	19	0.88
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD11	8	0.88
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD12	8	0.88
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD13	8	0.88
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	19	0.88
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	19	0.88
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	12	0.88
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	12	0.88
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	12	0.88
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	15	0.88
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	15	0.88
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	17	0.88
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	17	0.88
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	11	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	11	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	11	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	11	0.88
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	11	0.88
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	6	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	6	0.87
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	6	0.87
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	14	0.87
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	14	0.87
(2,835)	1:A:84:TRP:HE1	1:A:200:LEU:HD21	20	0.87
(2,788)	1:A:58:VAL:HG21	1:A:55:ASN:H	1	0.87
(2,788)	1:A:58:VAL:HG22	1:A:55:ASN:H	1	0.87
(2,788)	1:A:58:VAL:HG23	1:A:55:ASN:H	1	0.87
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	5	0.87
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	5	0.87
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	5	0.87
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	10	0.87
(2,588)	1:A:179:THR:H	1:A:100:LEU:HD21	14	0.87
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	6	0.87
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	6	0.87
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	6	0.87
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	12	0.87
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	11	0.87
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	17	0.87
(2,237)	1:A:84:TRP:HE1	1:A:200:LEU:HD21	20	0.87
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG21	1	0.87
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG22	1	0.87
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG23	1	0.87
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	2	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	2	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	2	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	2	0.87
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	2	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	1	0.86
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	7	0.86
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	12	0.86
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	13	0.86
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	16	0.86
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	7	0.86
(2,149)	1:A:43:GLN:HE22	1:A:52:GLY:H	13	0.86
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	5	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	5	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	5	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	5	0.86
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	5	0.86
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	19	0.85
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD22	4	0.85
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD23	4	0.85
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	20	0.85
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	20	0.85
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	6	0.85
(2,465)	1:A:137:GLY:H	1:A:95:SER:H	10	0.85
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	11	0.85
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	11	0.85
(2,287)	1:A:95:SER:H	1:A:137:GLY:H	10	0.85
(2,119)	1:A:189:LEU:H	1:A:189:LEU:HD21	2	0.85
(2,119)	1:A:189:LEU:H	1:A:189:LEU:HD21	3	0.85
(2,1023)	1:A:58:VAL:HG11	1:A:54:LEU:HD21	4	0.85
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	3	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	3	0.84
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	3	0.84
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	4	0.84
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	19	0.84
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	15	0.84
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	11	0.84
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	5	0.84
(2,149)	1:A:43:GLN:HE22	1:A:52:GLY:H	14	0.84
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	16	0.84
(2,119)	1:A:189:LEU:H	1:A:189:LEU:HD21	16	0.84
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	15	0.83
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	10	0.83
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	4	0.83
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	8	0.83
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	8	0.83
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG11	10	0.83
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG12	10	0.83
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG13	10	0.83
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG11	10	0.83
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG12	10	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG13	10	0.83
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	7	0.83
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	2	0.83
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	20	0.83
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	3	0.83
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	3	0.83
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	11	0.83
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	9	0.83
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	14	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	14	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	14	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	14	0.83
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	14	0.83
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	10	0.82
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	17	0.82
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	12	0.82
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	12	0.82
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	12	0.82
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	12	0.82
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	15	0.82
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	15	0.82
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	16	0.82
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	16	0.82
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	20	0.82
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	16	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	16	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	16	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	16	0.82
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	16	0.82
(3,23)	1:A:145:ASP:H	4:A:307:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:309:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:310:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:311:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:314:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:317:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:318:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:319:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:320:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:321:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:322:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:324:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:325:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:330:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:332:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:338:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:340:PX4:C35	8	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:A:145:ASP:H	4:A:341:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:345:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:347:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:348:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:349:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:352:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:353:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:357:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:401:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:402:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:403:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:404:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:405:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:406:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:409:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:413:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:414:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:417:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:419:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:423:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:424:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:425:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:426:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:427:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:428:PX4:C35	8	0.81
(3,23)	1:A:145:ASP:H	4:A:429:PX4:C35	8	0.81
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	5	0.81
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	5	0.81
(2,872)	1:A:89:VAL:HG12	1:A:122:LEU:HD21	10	0.81
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	19	0.81
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	1	0.81
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	7	0.81
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	20	0.81
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	6	0.81
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	19	0.81
(2,348)	1:A:189:LEU:HD22	1:A:112:ALA:H	12	0.81
(2,348)	1:A:189:LEU:HD23	1:A:112:ALA:H	12	0.81
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	18	0.81
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	18	0.81
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	18	0.81
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	1	0.81
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	1	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	13	0.81
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	13	0.81
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	1	0.81
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	6	0.81
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	9	0.81
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	7	0.8
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	19	0.8
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	19	0.8
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	14	0.8
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	14	0.8
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD22	17	0.8
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD23	17	0.8
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	15	0.8
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	15	0.8
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	17	0.8
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	17	0.8
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	17	0.8
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD11	20	0.8
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD12	20	0.8
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD13	20	0.8
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	17	0.8
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	1	0.8
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	6	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	6	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	6	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	6	0.8
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	9	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	9	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	9	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	9	0.8
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	9	0.8
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	10	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	10	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	10	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	10	0.8
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	10	0.8
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	20	0.79
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	20	0.79
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	19	0.79
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	19	0.79
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	19	0.79
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	19	0.79
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	14	0.79
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	8	0.79
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	11	0.79
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	8	0.79
(2,645)	1:A:199:SER:H	1:A:202:MET:H	14	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	12	0.79
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	7	0.79
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	7	0.79
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	6	0.79
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	9	0.79
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	14	0.79
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	14	0.79
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	13	0.79
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD22	11	0.78
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD23	11	0.78
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	17	0.78
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	17	0.78
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	17	0.78
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	17	0.78
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	17	0.78
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	17	0.78
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	17	0.78
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	17	0.78
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	17	0.78
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	4	0.78
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	5	0.78
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	14	0.78
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	6	0.78
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	17	0.78
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	17	0.78
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	15	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	15	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	15	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	15	0.78
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	15	0.78
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	9	0.77
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	6	0.77
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	7	0.77
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	7	0.77
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	7	0.77
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	7	0.77
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	17	0.77
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	2	0.77
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	12	0.77
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	4	0.77
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	2	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	2	0.76
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	17	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	17	0.76
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	17	0.76
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	15	0.76
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	15	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	15	0.76
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	2	0.76
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	14	0.76
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	11	0.76
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	5	0.76
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	5	0.76
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	20	0.76
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	5	0.76
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	1	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	1	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	1	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	1	0.76
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	1	0.76
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	8	0.75
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	8	0.75
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	3	0.75
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD22	5	0.75
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD23	5	0.75
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	17	0.75
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	2	0.75
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	2	0.75
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	2	0.75
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	2	0.75
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	12	0.75
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	12	0.75
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	3	0.75
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	3	0.75
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	3	0.75
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	16	0.75
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	9	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	9	0.74
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	18	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	18	0.74
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	18	0.74
(2,998)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	1	0.74
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	5	0.74
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	4	0.74
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	4	0.74
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	9	0.74
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	16	0.74
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	2	0.74
(2,847)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	7	0.74
(2,828)	1:A:89:VAL:HG13	1:A:200:LEU:HD21	7	0.74
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	13	0.74
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	13	0.74
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	13	0.74
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	13	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	11	0.74
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	3	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	3	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	3	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	3	0.74
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	17	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	17	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	17	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	17	0.74
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	17	0.74
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD22	5	0.74
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD23	5	0.74
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	8	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	8	0.73
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	8	0.73
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	20	0.73
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	20	0.73
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	8	0.73
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	20	0.73
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	20	0.73
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	8	0.73
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	20	0.73
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	8	0.73
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	8	0.73
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	8	0.73
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	2	0.73
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	16	0.73
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	16	0.73
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	18	0.73
(2,1028)	1:A:58:VAL:HG13	1:A:54:LEU:HD22	17	0.73
(2,1028)	1:A:58:VAL:HG13	1:A:54:LEU:HD23	17	0.73
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD22	15	0.72
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	15	0.72
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	13	0.72
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	13	0.72
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	12	0.72
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	12	0.72
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	3	0.72
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	5	0.72
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	5	0.72
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	1	0.72
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	11	0.72
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	10	0.72
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	19	0.72
(2,262)	1:A:134:ILE:HD11	1:A:90:THR:H	16	0.72
(2,262)	1:A:134:ILE:HD12	1:A:90:THR:H	16	0.72
(2,262)	1:A:134:ILE:HD13	1:A:90:THR:H	16	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	9	0.72
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	7	0.72
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	7	0.72
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	9	0.72
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	9	0.72
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	20	0.72
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	16	0.71
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	16	0.71
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	16	0.71
(2,870)	1:A:89:VAL:HG11	1:A:122:LEU:HD21	2	0.71
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	11	0.71
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	2	0.71
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	2	0.71
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	2	0.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	2	0.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	2	0.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	2	0.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	2	0.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	2	0.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	2	0.71
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	4	0.71
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	4	0.71
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	4	0.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	4	0.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	4	0.71
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	4	0.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	4	0.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	4	0.71
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	4	0.71
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	4	0.71
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	4	0.71
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	4	0.71
(2,767)	1:A:24:LEU:H	1:A:24:LEU:HD21	4	0.71
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	16	0.71
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	18	0.71
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	6	0.71
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	6	0.71
(2,70)	1:A:24:LEU:H	1:A:24:LEU:HD21	4	0.71
(2,649)	1:A:200:LEU:HD21	1:A:199:SER:H	19	0.71
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	4	0.71
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD22	5	0.71
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD23	5	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	3	0.71
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	3	0.71
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	3	0.71
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	1	0.71
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	13	0.71
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	20	0.71
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD22	16	0.71
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD23	16	0.71
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG11	3	0.71
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG12	3	0.71
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG13	3	0.71
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	1	0.71
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	12	0.71
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	5	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	5	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	5	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	5	0.71
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	5	0.71
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	15	0.7
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	2	0.7
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	12	0.7
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	7	0.7
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	15	0.7
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	10	0.7
(2,319)	1:A:106:ASP:H	1:A:102:HIS:HD2	17	0.7
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	6	0.7
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	6	0.7
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	4	0.69
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	4	0.69
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	19	0.69
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	19	0.69
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	1	0.69
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	19	0.69
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	14	0.69
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	14	0.69
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	14	0.69
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	8	0.69
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	10	0.69
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	10	0.69
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	15	0.69
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	15	0.69
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	8	0.69
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	15	0.69
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	15	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	12	0.69
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	12	0.69
(2,149)	1:A:43:GLN:HE22	1:A:52:GLY:H	2	0.69
(3,23)	1:A:145:ASP:H	4:A:307:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:309:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:310:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:311:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:314:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:317:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:318:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:319:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:320:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:321:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:322:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:324:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:325:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:330:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:332:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:338:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:340:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:341:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:345:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:347:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:348:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:349:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:352:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:353:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:357:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:401:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:402:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:403:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:404:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:405:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:406:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:409:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:413:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:414:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:417:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:419:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:423:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:424:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:425:PX4:C35	17	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:A:145:ASP:H	4:A:426:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:427:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:428:PX4:C35	17	0.68
(3,23)	1:A:145:ASP:H	4:A:429:PX4:C35	17	0.68
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	1	0.68
(2,913)	1:A:113:LEU:H	1:A:196:LEU:HD22	5	0.68
(2,913)	1:A:113:LEU:H	1:A:196:LEU:HD23	5	0.68
(2,899)	1:A:108:LEU:HD21	1:A:109:VAL:H	7	0.68
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	11	0.68
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	11	0.68
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	11	0.68
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	11	0.68
(2,822)	1:A:89:VAL:HG11	1:A:122:LEU:HG	20	0.68
(2,822)	1:A:89:VAL:HG12	1:A:122:LEU:HG	20	0.68
(2,822)	1:A:89:VAL:HG13	1:A:122:LEU:HG	20	0.68
(2,772)	1:A:19:LEU:HD22	1:A:22:PHE:H	20	0.68
(2,772)	1:A:19:LEU:HD23	1:A:22:PHE:H	20	0.68
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	19	0.68
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	20	0.68
(2,649)	1:A:200:LEU:HD21	1:A:199:SER:H	5	0.68
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	19	0.68
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	1	0.68
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	19	0.68
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	5	0.68
(2,357)	1:A:113:LEU:H	1:A:196:LEU:HD22	5	0.68
(2,357)	1:A:113:LEU:H	1:A:196:LEU:HD23	5	0.68
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	17	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	17	0.68
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	17	0.68
(2,870)	1:A:89:VAL:HG11	1:A:122:LEU:HD21	20	0.67
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	12	0.67
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	12	0.67
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	12	0.67
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	12	0.67
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	1	0.67
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	14	0.67
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	17	0.67
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	8	0.67
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	8	0.67
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	14	0.67
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	18	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	18	0.66
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	18	0.66
(2,998)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	11	0.66
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD22	5	0.66
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD23	5	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	17	0.66
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	17	0.66
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	17	0.66
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	17	0.66
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD22	1	0.66
(2,806)	1:A:61:ILE:HD11	1:A:48:LEU:HD23	1	0.66
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	1	0.66
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	1	0.66
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	7	0.66
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	7	0.66
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	10	0.66
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	5	0.66
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	5	0.66
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	7	0.66
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	7	0.66
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	16	0.66
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	11	0.66
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	11	0.66
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	11	0.66
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	20	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	20	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	20	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	20	0.66
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	20	0.66
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD22	4	0.65
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD23	4	0.65
(2,59)	1:A:217:GLY:H	1:A:219:GLY:H	12	0.65
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	1	0.65
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	1	0.65
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	1	0.65
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	16	0.65
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	13	0.65
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	16	0.65
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	16	0.65
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	19	0.65
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD22	2	0.64
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD23	2	0.64
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	11	0.64
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	11	0.64
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	7	0.64
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	7	0.64
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	7	0.64
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	7	0.64
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	7	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	7	0.64
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	7	0.64
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	7	0.64
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	7	0.64
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG11	2	0.64
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG12	2	0.64
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG13	2	0.64
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG11	2	0.64
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG12	2	0.64
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG13	2	0.64
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	5	0.64
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	7	0.64
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	11	0.64
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	13	0.64
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	17	0.64
(2,645)	1:A:199:SER:H	1:A:202:MET:H	12	0.64
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	16	0.64
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	16	0.64
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	19	0.64
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	2	0.64
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	15	0.64
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	3	0.64
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	11	0.64
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	11	0.64
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	11	0.64
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	11	0.64
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	11	0.64
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	11	0.64
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	11	0.64
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	11	0.64
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	11	0.64
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	15	0.63
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	12	0.63
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	12	0.63
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	17	0.63
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	17	0.63
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	18	0.63
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD11	19	0.63
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD12	19	0.63
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD13	19	0.63
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	12	0.63
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	18	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	12	0.63
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	20	0.63
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	5	0.63
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	5	0.63
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	5	0.63
(2,111)	1:A:43:GLN:H	1:A:43:GLN:HE21	2	0.63
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	12	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	12	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	12	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	12	0.63
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	12	0.63
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	19	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	19	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	19	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	19	0.63
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	19	0.63
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	18	0.62
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	6	0.62
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	6	0.62
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	13	0.62
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	13	0.62
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	8	0.62
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	8	0.62
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	8	0.62
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	8	0.62
(2,762)	1:A:19:LEU:HD22	1:A:38:LYS:H	11	0.62
(2,762)	1:A:19:LEU:HD23	1:A:38:LYS:H	11	0.62
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	17	0.62
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	4	0.62
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	3	0.62
(2,681)	1:A:212:MET:H	1:A:227:SER:H	5	0.62
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	19	0.62
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	9	0.62
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	1	0.62
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	11	0.62
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	11	0.62
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:307:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:309:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:310:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:311:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:314:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:317:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:318:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:319:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:320:PX4:C1	10	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1059)	1:A:129:TRP:H	4:A:321:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:322:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:324:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:325:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:330:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:332:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:338:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:340:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:341:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:345:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:347:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:348:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:349:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:352:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:353:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:357:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:401:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:402:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:403:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:404:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:405:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:406:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:409:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:413:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:414:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:417:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:419:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:423:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:424:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:425:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:426:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:427:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:428:PX4:C1	10	0.62
(2,1059)	1:A:129:TRP:H	4:A:429:PX4:C1	10	0.62
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	12	0.62
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	12	0.62
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	12	0.62
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	12	0.62
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	12	0.62
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	12	0.62
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	12	0.62
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	12	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	12	0.62
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	18	0.62
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	18	0.62
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	18	0.62
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	18	0.62
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	18	0.62
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	18	0.62
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	18	0.62
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	18	0.62
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	18	0.62
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	20	0.61
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	9	0.61
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	9	0.61
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	9	0.61
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	1	0.61
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	1	0.61
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	16	0.61
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	16	0.61
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	9	0.61
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	9	0.61
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	9	0.61
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	9	0.61
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	7	0.61
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	7	0.61
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	7	0.61
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	9	0.61
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	9	0.61
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	9	0.61
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	5	0.61
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	9	0.61
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	9	0.61
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	6	0.61
(2,658)	1:A:200:LEU:HD21	1:A:201:GLY:H	14	0.61
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	20	0.61
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	20	0.61
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	6	0.61
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	16	0.61
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	3	0.61
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	19	0.61
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	1	0.61
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	1	0.61
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	16	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	13	0.61
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	6	0.61
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	6	0.61
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	6	0.61
(2,149)	1:A:43:GLN:HE22	1:A:52:GLY:H	3	0.61
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	4	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	4	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	4	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	4	0.61
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	4	0.61
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD22	15	0.6
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD23	15	0.6
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	7	0.6
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	7	0.6
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	19	0.6
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	19	0.6
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	13	0.6
(2,899)	1:A:108:LEU:HD21	1:A:109:VAL:H	9	0.6
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD22	2	0.6
(2,810)	1:A:61:ILE:HD13	1:A:48:LEU:HD23	2	0.6
(2,752)	1:A:22:PHE:H	1:A:25:TYR:H	2	0.6
(2,645)	1:A:199:SER:H	1:A:202:MET:H	16	0.6
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	20	0.6
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	3	0.6
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	18	0.6
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	14	0.6
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	13	0.6
(2,316)	1:A:106:ASP:H	1:A:109:VAL:H	14	0.6
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	13	0.6
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	10	0.6
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	8	0.6
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	8	0.6
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	18	0.59
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	18	0.59
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	18	0.59
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	18	0.59
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	11	0.59
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	11	0.59
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	11	0.59
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	11	0.59
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	11	0.59
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	11	0.59
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	11	0.59
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	11	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	11	0.59
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	20	0.59
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	16	0.59
(2,681)	1:A:212:MET:H	1:A:227:SER:H	3	0.59
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	16	0.59
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	16	0.59
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	16	0.59
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	5	0.59
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	7	0.59
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	20	0.59
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	6	0.59
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	14	0.59
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	2	0.59
(2,149)	1:A:43:GLN:HE22	1:A:52:GLY:H	9	0.59
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	19	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	19	0.59
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	19	0.59
(2,998)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	18	0.58
(2,994)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	5	0.58
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD22	7	0.58
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD23	7	0.58
(2,899)	1:A:108:LEU:HD21	1:A:109:VAL:H	17	0.58
(2,863)	1:A:89:VAL:HG21	1:A:200:LEU:HD21	14	0.58
(2,822)	1:A:89:VAL:HG11	1:A:122:LEU:HG	16	0.58
(2,822)	1:A:89:VAL:HG12	1:A:122:LEU:HG	16	0.58
(2,822)	1:A:89:VAL:HG13	1:A:122:LEU:HG	16	0.58
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG11	19	0.58
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG12	19	0.58
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG13	19	0.58
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG11	19	0.58
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG12	19	0.58
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG13	19	0.58
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	2	0.58
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	2	0.58
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	2	0.58
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	6	0.58
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	7	0.58
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	7	0.58
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	12	0.58
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	6	0.58
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	6	0.58
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	6	0.58
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	6	0.58
(2,512)	1:A:160:PHE:H	1:A:167:GLY:HA3	7	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	4	0.58
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	18	0.58
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	16	0.58
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	17	0.58
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	3	0.58
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	3	0.58
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	3	0.58
(2,119)	1:A:189:LEU:H	1:A:189:LEU:HD21	8	0.58
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	2	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	2	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	2	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	2	0.58
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	2	0.58
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	7	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	7	0.57
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	12	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	12	0.57
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	12	0.57
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD11	19	0.57
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD12	19	0.57
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD13	19	0.57
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	10	0.57
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	1	0.57
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	2	0.57
(2,336)	1:A:111:LYS:H	1:A:108:LEU:H	3	0.57
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	17	0.57
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	2	0.57
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	10	0.57
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	5	0.57
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	11	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	11	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	11	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	11	0.57
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	11	0.57
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	5	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	5	0.56
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	5	0.56
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	18	0.56
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD11	9	0.56
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD12	9	0.56
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD13	9	0.56
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	13	0.56
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	11	0.56
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	11	0.56
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD22	19	0.56
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD23	19	0.56
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	9	0.56
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	9	0.56
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	20	0.56
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	20	0.56
(2,772)	1:A:19:LEU:HD22	1:A:22:PHE:H	16	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,772)	1:A:19:LEU:HD23	1:A:22:PHE:H	16	0.56
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	4	0.56
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	10	0.56
(2,681)	1:A:212:MET:H	1:A:227:SER:H	1	0.56
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	9	0.56
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	10	0.56
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	20	0.56
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	16	0.56
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	17	0.56
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	9	0.56
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	17	0.56
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD22	9	0.56
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD23	9	0.56
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	8	0.56
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	11	0.56
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG11	14	0.56
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG12	14	0.56
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG13	14	0.56
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	4	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	4	0.56
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	4	0.56
(2,1028)	1:A:58:VAL:HG13	1:A:54:LEU:HD22	7	0.56
(2,1028)	1:A:58:VAL:HG13	1:A:54:LEU:HD23	7	0.56
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	20	0.55
(2,872)	1:A:89:VAL:HG12	1:A:122:LEU:HD21	16	0.55
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	18	0.55
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	15	0.55
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	7	0.55
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	15	0.55
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	11	0.55
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	8	0.55
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	16	0.55
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	2	0.55
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	2	0.55
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	20	0.55
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	14	0.55
(2,248)	1:A:88:VAL:H	1:A:122:LEU:HD21	8	0.55
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	2	0.55
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	2	0.55
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	2	0.55
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	3	0.55
(2,171)	1:A:55:ASN:H	1:A:58:VAL:H	9	0.55
(2,151)	1:A:55:ASN:H	1:A:58:VAL:H	9	0.55
(2,135)	1:A:46:PHE:H	1:A:48:LEU:H	17	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,994)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	20	0.54
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	18	0.54
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	18	0.54
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	18	0.54
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	18	0.54
(2,822)	1:A:89:VAL:HG11	1:A:122:LEU:HG	4	0.54
(2,822)	1:A:89:VAL:HG12	1:A:122:LEU:HG	4	0.54
(2,822)	1:A:89:VAL:HG13	1:A:122:LEU:HG	4	0.54
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	16	0.54
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD22	17	0.54
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD23	17	0.54
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	3	0.54
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	18	0.54
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	18	0.54
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	18	0.54
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	12	0.54
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	12	0.54
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	2	0.54
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	2	0.54
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	16	0.54
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	15	0.54
(2,348)	1:A:189:LEU:HD22	1:A:112:ALA:H	8	0.54
(2,348)	1:A:189:LEU:HD23	1:A:112:ALA:H	8	0.54
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	1	0.54
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	7	0.54
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	7	0.54
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	7	0.54
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	14	0.54
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	19	0.54
(2,1059)	1:A:129:TRP:H	4:A:307:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:309:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:310:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:311:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:314:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:317:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:318:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:319:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:320:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:321:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:322:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:324:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:325:PX4:C1	7	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1059)	1:A:129:TRP:H	4:A:330:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:332:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:338:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:340:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:341:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:345:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:347:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:348:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:349:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:352:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:353:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:357:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:401:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:402:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:403:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:404:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:405:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:406:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:409:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:413:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:414:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:417:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:419:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:423:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:424:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:425:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:426:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:427:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:428:PX4:C1	7	0.54
(2,1059)	1:A:129:TRP:H	4:A:429:PX4:C1	7	0.54
(2,1025)	1:A:58:VAL:HG12	1:A:54:LEU:HD21	5	0.54
(2,994)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	10	0.53
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	20	0.53
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	20	0.53
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	20	0.53
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD11	18	0.53
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD12	18	0.53
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD13	18	0.53
(2,913)	1:A:113:LEU:H	1:A:196:LEU:HD22	1	0.53
(2,913)	1:A:113:LEU:H	1:A:196:LEU:HD23	1	0.53
(2,899)	1:A:108:LEU:HD21	1:A:109:VAL:H	15	0.53
(2,872)	1:A:89:VAL:HG12	1:A:122:LEU:HD21	14	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	15	0.53
(2,764)	1:A:19:LEU:HD22	1:A:40:LYS:H	14	0.53
(2,764)	1:A:19:LEU:HD23	1:A:40:LYS:H	14	0.53
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	12	0.53
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	3	0.53
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	3	0.53
(2,547)	1:A:170:ALA:H	1:A:171:HIS:HD2	20	0.53
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	18	0.53
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	18	0.53
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	18	0.53
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	4	0.53
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	15	0.53
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	4	0.53
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	11	0.53
(2,357)	1:A:113:LEU:H	1:A:196:LEU:HD22	1	0.53
(2,357)	1:A:113:LEU:H	1:A:196:LEU:HD23	1	0.53
(2,348)	1:A:189:LEU:HD22	1:A:112:ALA:H	1	0.53
(2,348)	1:A:189:LEU:HD23	1:A:112:ALA:H	1	0.53
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	9	0.53
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	16	0.53
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG11	9	0.53
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG12	9	0.53
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG13	9	0.53
(2,149)	1:A:43:GLN:HE22	1:A:52:GLY:H	6	0.53
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	14	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	14	0.52
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	14	0.52
(3,22)	1:A:144:GLY:H	4:A:307:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:309:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:310:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:311:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:314:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:317:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:318:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:319:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:320:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:321:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:322:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:324:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:325:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:330:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:332:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:338:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:340:PX4:C35	17	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,22)	1:A:144:GLY:H	4:A:341:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:345:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:347:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:348:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:349:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:352:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:353:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:357:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:401:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:402:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:403:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:404:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:405:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:406:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:409:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:413:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:414:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:417:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:419:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:423:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:424:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:425:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:426:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:427:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:428:PX4:C35	17	0.52
(3,22)	1:A:144:GLY:H	4:A:429:PX4:C35	17	0.52
(2,998)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	7	0.52
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	2	0.52
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	2	0.52
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	2	0.52
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	1	0.52
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	1	0.52
(2,822)	1:A:89:VAL:HG11	1:A:122:LEU:HG	15	0.52
(2,822)	1:A:89:VAL:HG12	1:A:122:LEU:HG	15	0.52
(2,822)	1:A:89:VAL:HG13	1:A:122:LEU:HG	15	0.52
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	10	0.52
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	10	0.52
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	10	0.52
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	13	0.52
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	13	0.52
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	17	0.52
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG13	5	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG12	5	0.52
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	11	0.52
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	11	0.52
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	13	0.52
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	7	0.52
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	19	0.52
(2,998)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	2	0.51
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	6	0.51
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	6	0.51
(2,814)	1:A:71:ASP:H	1:A:72:VAL:HG11	20	0.51
(2,814)	1:A:71:ASP:H	1:A:72:VAL:HG12	20	0.51
(2,814)	1:A:71:ASP:H	1:A:72:VAL:HG13	20	0.51
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	2	0.51
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	14	0.51
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	4	0.51
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	15	0.51
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	2	0.51
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	2	0.51
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	2	0.51
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	6	0.51
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	12	0.51
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	6	0.51
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	18	0.51
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	4	0.51
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	4	0.51
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	4	0.51
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	7	0.51
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	8	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	8	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	8	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	8	0.51
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	8	0.51
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	12	0.5
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	12	0.5
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	12	0.5
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	7	0.5
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	7	0.5
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	8	0.5
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	8	0.5
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	20	0.5
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	20	0.5
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	20	0.5
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	20	0.5
(2,822)	1:A:89:VAL:HG11	1:A:122:LEU:HG	19	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,822)	1:A:89:VAL:HG12	1:A:122:LEU:HG	19	0.5
(2,822)	1:A:89:VAL:HG13	1:A:122:LEU:HG	19	0.5
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG11	17	0.5
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG12	17	0.5
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG13	17	0.5
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG11	17	0.5
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG12	17	0.5
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG13	17	0.5
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	3	0.5
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	11	0.5
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	11	0.5
(2,612)	1:A:108:LEU:HD22	1:A:188:PHE:H	8	0.5
(2,612)	1:A:108:LEU:HD23	1:A:188:PHE:H	8	0.5
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	2	0.5
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	3	0.5
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	13	0.5
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	20	0.5
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	16	0.5
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	16	0.5
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	16	0.5
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	17	0.5
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	17	0.5
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	6	0.5
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	3	0.5
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD22	18	0.5
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD23	18	0.5
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG11	6	0.5
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG12	6	0.5
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG13	6	0.5
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	9	0.5
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	10	0.5
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	10	0.5
(2,1059)	1:A:129:TRP:H	4:A:307:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:309:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:310:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:311:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:314:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:317:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:318:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:319:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:320:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:321:PX4:C1	8	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1059)	1:A:129:TRP:H	4:A:322:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:324:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:325:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:330:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:332:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:338:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:340:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:341:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:345:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:347:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:348:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:349:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:352:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:353:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:357:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:401:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:402:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:403:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:404:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:405:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:406:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:409:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:413:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:414:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:417:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:419:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:423:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:424:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:425:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:426:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:427:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:428:PX4:C1	8	0.5
(2,1059)	1:A:129:TRP:H	4:A:429:PX4:C1	8	0.5
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	17	0.49
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	17	0.49
(2,924)	1:A:113:LEU:HD22	1:A:196:LEU:HD21	1	0.49
(2,879)	1:A:127:VAL:HG11	1:A:91:TYR:H	4	0.49
(2,879)	1:A:127:VAL:HG12	1:A:91:TYR:H	4	0.49
(2,879)	1:A:127:VAL:HG13	1:A:91:TYR:H	4	0.49
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	10	0.49
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	10	0.49
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	11	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	11	0.49
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	17	0.49
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	17	0.49
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	10	0.49
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	10	0.49
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	10	0.49
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	10	0.49
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	10	0.49
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	10	0.49
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	10	0.49
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	10	0.49
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	10	0.49
(2,764)	1:A:19:LEU:HD22	1:A:40:LYS:H	13	0.49
(2,764)	1:A:19:LEU:HD23	1:A:40:LYS:H	13	0.49
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	4	0.49
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	18	0.49
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	20	0.49
(2,465)	1:A:137:GLY:H	1:A:95:SER:H	15	0.49
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	6	0.49
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	8	0.49
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	10	0.49
(2,287)	1:A:95:SER:H	1:A:137:GLY:H	15	0.49
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	13	0.49
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	13	0.49
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	13	0.49
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	3	0.49
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	9	0.49
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	5	0.48
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	5	0.48
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	18	0.48
(2,649)	1:A:200:LEU:HD21	1:A:199:SER:H	17	0.48
(2,645)	1:A:199:SER:H	1:A:202:MET:H	10	0.48
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	15	0.48
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	8	0.48
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	16	0.48
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	16	0.48
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	19	0.48
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	13	0.48
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	2	0.48
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	2	0.48
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	3	0.48
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	3	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	6	0.48
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	6	0.48
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	12	0.48
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	12	0.48
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	20	0.48
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	20	0.48
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	6	0.48
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	11	0.48
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	13	0.48
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	17	0.48
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	4	0.48
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	15	0.48
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	14	0.48
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	16	0.48
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	17	0.48
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	18	0.48
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	18	0.48
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	18	0.48
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	18	0.48
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	4	0.48
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	4	0.48
(3,22)	1:A:144:GLY:H	4:A:307:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:309:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:310:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:311:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:314:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:317:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:318:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:319:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:320:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:321:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:322:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:324:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:325:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:330:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:332:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:338:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:340:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:341:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:345:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:347:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:348:PX4:C35	11	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,22)	1:A:144:GLY:H	4:A:349:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:352:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:353:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:357:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:401:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:402:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:403:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:404:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:405:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:406:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:409:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:413:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:414:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:417:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:419:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:423:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:424:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:425:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:426:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:427:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:428:PX4:C35	11	0.47
(3,22)	1:A:144:GLY:H	4:A:429:PX4:C35	11	0.47
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	4	0.47
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	16	0.47
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	16	0.47
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	6	0.47
(2,899)	1:A:108:LEU:HD21	1:A:109:VAL:H	13	0.47
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	2	0.47
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	2	0.47
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	2	0.47
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	2	0.47
(2,809)	1:A:61:ILE:HD13	1:A:48:LEU:HD21	4	0.47
(2,787)	1:A:58:VAL:HG21	1:A:43:GLN:HE21	2	0.47
(2,787)	1:A:58:VAL:HG22	1:A:43:GLN:HE21	2	0.47
(2,787)	1:A:58:VAL:HG23	1:A:43:GLN:HE21	2	0.47
(2,783)	1:A:58:VAL:HG11	1:A:54:LEU:HD11	5	0.47
(2,783)	1:A:58:VAL:HG11	1:A:54:LEU:HD12	5	0.47
(2,783)	1:A:58:VAL:HG11	1:A:54:LEU:HD13	5	0.47
(2,783)	1:A:58:VAL:HG12	1:A:54:LEU:HD11	5	0.47
(2,783)	1:A:58:VAL:HG12	1:A:54:LEU:HD12	5	0.47
(2,783)	1:A:58:VAL:HG12	1:A:54:LEU:HD13	5	0.47
(2,783)	1:A:58:VAL:HG13	1:A:54:LEU:HD11	5	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,783)	1:A:58:VAL:HG13	1:A:54:LEU:HD12	5	0.47
(2,783)	1:A:58:VAL:HG13	1:A:54:LEU:HD13	5	0.47
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	3	0.47
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	4	0.47
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	2	0.47
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	15	0.47
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	5	0.47
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	13	0.47
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	1	0.47
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	3	0.47
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	14	0.47
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	8	0.47
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	8	0.47
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	13	0.47
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	19	0.47
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	5	0.47
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	17	0.47
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG11	18	0.47
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG12	18	0.47
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG13	18	0.47
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	10	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	10	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	10	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	10	0.47
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	10	0.47
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD22	10	0.47
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD23	10	0.47
(3,23)	1:A:145:ASP:H	4:A:307:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:309:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:310:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:311:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:314:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:317:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:318:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:319:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:320:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:321:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:322:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:324:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:325:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:330:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:332:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:338:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:340:PX4:C35	2	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:A:145:ASP:H	4:A:341:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:345:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:347:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:348:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:349:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:352:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:353:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:357:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:401:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:402:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:403:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:404:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:405:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:406:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:409:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:413:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:414:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:417:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:419:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:423:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:424:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:425:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:426:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:427:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:428:PX4:C35	2	0.46
(3,23)	1:A:145:ASP:H	4:A:429:PX4:C35	2	0.46
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	3	0.46
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	3	0.46
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	3	0.46
(2,902)	1:A:109:VAL:HG11	1:A:105:VAL:HG11	1	0.46
(2,902)	1:A:109:VAL:HG11	1:A:105:VAL:HG12	1	0.46
(2,902)	1:A:109:VAL:HG11	1:A:105:VAL:HG13	1	0.46
(2,902)	1:A:109:VAL:HG12	1:A:105:VAL:HG11	1	0.46
(2,902)	1:A:109:VAL:HG12	1:A:105:VAL:HG12	1	0.46
(2,902)	1:A:109:VAL:HG12	1:A:105:VAL:HG13	1	0.46
(2,902)	1:A:109:VAL:HG13	1:A:105:VAL:HG11	1	0.46
(2,902)	1:A:109:VAL:HG13	1:A:105:VAL:HG12	1	0.46
(2,902)	1:A:109:VAL:HG13	1:A:105:VAL:HG13	1	0.46
(2,789)	1:A:58:VAL:HG21	1:A:55:ASN:HD22	12	0.46
(2,789)	1:A:58:VAL:HG22	1:A:55:ASN:HD22	12	0.46
(2,789)	1:A:58:VAL:HG23	1:A:55:ASN:HD22	12	0.46
(2,767)	1:A:24:LEU:H	1:A:24:LEU:HD21	11	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	3	0.46
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	20	0.46
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	20	0.46
(2,70)	1:A:24:LEU:H	1:A:24:LEU:HD21	11	0.46
(2,676)	1:A:210:ALA:H	1:A:213:TYR:H	11	0.46
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	2	0.46
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	13	0.46
(2,610)	1:A:188:PHE:H	1:A:191:ALA:H	14	0.46
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	3	0.46
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	14	0.46
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	14	0.46
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	10	0.46
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	15	0.46
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	2	0.46
(2,348)	1:A:189:LEU:HD22	1:A:112:ALA:H	16	0.46
(2,348)	1:A:189:LEU:HD23	1:A:112:ALA:H	16	0.46
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	12	0.46
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	8	0.46
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	12	0.46
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	20	0.46
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	20	0.46
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	20	0.46
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	13	0.46
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	13	0.46
(3,23)	1:A:145:ASP:H	4:A:307:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:309:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:310:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:311:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:314:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:317:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:318:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:319:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:320:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:321:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:322:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:324:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:325:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:330:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:332:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:338:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:340:PX4:C35	12	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:A:145:ASP:H	4:A:341:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:345:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:347:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:348:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:349:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:352:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:353:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:357:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:401:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:402:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:403:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:404:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:405:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:406:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:409:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:413:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:414:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:417:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:419:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:423:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:424:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:425:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:426:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:427:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:428:PX4:C35	12	0.45
(3,23)	1:A:145:ASP:H	4:A:429:PX4:C35	12	0.45
(2,996)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	19	0.45
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	14	0.45
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	14	0.45
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	10	0.45
(2,767)	1:A:24:LEU:H	1:A:24:LEU:HD21	15	0.45
(2,762)	1:A:19:LEU:HD22	1:A:38:LYS:H	3	0.45
(2,762)	1:A:19:LEU:HD23	1:A:38:LYS:H	3	0.45
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	10	0.45
(2,70)	1:A:24:LEU:H	1:A:24:LEU:HD21	15	0.45
(2,681)	1:A:212:MET:H	1:A:227:SER:H	13	0.45
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	1	0.45
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	15	0.45
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	16	0.45
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	19	0.45
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	5	0.45
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	5	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	9	0.45
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	9	0.45
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	14	0.45
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	2	0.45
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	13	0.45
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	6	0.45
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	13	0.45
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	4	0.45
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	1	0.45
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	18	0.45
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	4	0.45
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	4	0.45
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	14	0.45
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	12	0.45
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	14	0.45
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	7	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	7	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	7	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	7	0.45
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	7	0.45
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	8	0.45
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	8	0.45
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	8	0.45
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	8	0.45
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	8	0.45
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	8	0.45
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	8	0.45
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	8	0.45
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	8	0.45
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	17	0.44
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	10	0.44
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	10	0.44
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	20	0.44
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	16	0.44
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	10	0.44
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	18	0.44
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	9	0.44
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	3	0.44
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	3	0.44
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	19	0.44
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	19	0.44
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	19	0.44
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	1	0.44
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	4	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	4	0.44
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	18	0.44
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	18	0.44
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	11	0.44
(2,465)	1:A:137:GLY:H	1:A:95:SER:H	9	0.44
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	7	0.44
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	3	0.44
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	15	0.44
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	15	0.44
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	2	0.44
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	9	0.44
(2,287)	1:A:95:SER:H	1:A:137:GLY:H	9	0.44
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	19	0.44
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	19	0.44
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	6	0.44
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	6	0.44
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	6	0.44
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	18	0.44
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	18	0.44
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	18	0.44
(2,171)	1:A:55:ASN:H	1:A:58:VAL:H	6	0.44
(2,151)	1:A:55:ASN:H	1:A:58:VAL:H	6	0.44
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	13	0.44
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	13	0.44
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD11	7	0.44
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD12	7	0.44
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD13	7	0.44
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD22	12	0.44
(2,1024)	1:A:58:VAL:HG11	1:A:54:LEU:HD23	12	0.44
(2,998)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	20	0.43
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	5	0.43
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	8	0.43
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	8	0.43
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	8	0.43
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	8	0.43
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	8	0.43
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	8	0.43
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	8	0.43
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	8	0.43
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	8	0.43
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	9	0.43
(2,610)	1:A:188:PHE:H	1:A:191:ALA:H	15	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,588)	1:A:179:THR:H	1:A:100:LEU:HD21	18	0.43
(2,526)	1:A:160:PHE:H	1:A:168:GLY:H	16	0.43
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	10	0.43
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	10	0.43
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	13	0.43
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	13	0.43
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	17	0.43
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	17	0.43
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	19	0.43
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	14	0.43
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	4	0.43
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	7	0.43
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	9	0.43
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	5	0.43
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	5	0.43
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	1	0.43
(2,245)	1:A:88:VAL:H	1:A:123:HIS:H	13	0.43
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	19	0.43
(2,163)	1:A:55:ASN:HD21	1:A:48:LEU:HD21	19	0.43
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	5	0.43
(2,133)	1:A:47:GLY:H	1:A:206:SER:HB3	4	0.43
(2,133)	1:A:47:GLY:H	1:A:206:SER:HB2	4	0.43
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	7	0.42
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	7	0.42
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	7	0.42
(2,899)	1:A:108:LEU:HD21	1:A:109:VAL:H	18	0.42
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	16	0.42
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	3	0.42
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	10	0.42
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	2	0.42
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	2	0.42
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	19	0.42
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	19	0.42
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	1	0.42
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	1	0.42
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	19	0.42
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	19	0.42
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	12	0.42
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	6	0.42
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	1	0.42
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	20	0.42
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	20	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	16	0.42
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	2	0.42
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	2	0.42
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	5	0.42
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	19	0.42
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	15	0.42
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	13	0.42
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	13	0.42
(2,153)	1:A:55:ASN:H	1:A:55:ASN:HD21	20	0.42
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	9	0.42
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	6	0.42
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	6	0.42
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C3	18	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C3	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C4	18	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C4	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:307:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:309:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:310:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:311:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:314:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:317:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:318:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:319:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:320:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:321:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:322:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:324:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:325:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:330:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:332:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:338:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:340:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:341:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:345:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:347:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:348:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:349:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:352:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:353:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:357:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:401:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:402:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:403:PX4:C5	18	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1054)	1:A:88:VAL:H	4:A:404:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:405:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:406:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:409:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:413:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:414:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:417:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:419:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:423:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:424:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:425:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:426:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:427:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:428:PX4:C5	18	0.42
(2,1054)	1:A:88:VAL:H	4:A:429:PX4:C5	18	0.42
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	5	0.41
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	3	0.41
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	3	0.41
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	15	0.41
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	15	0.41
(2,790)	1:A:43:GLN:HE22	1:A:58:VAL:HG21	1	0.41
(2,790)	1:A:43:GLN:HE22	1:A:58:VAL:HG22	1	0.41
(2,790)	1:A:43:GLN:HE22	1:A:58:VAL:HG23	1	0.41
(2,645)	1:A:199:SER:H	1:A:202:MET:H	18	0.41
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD22	15	0.41
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD23	15	0.41
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	9	0.41
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	7	0.41
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	7	0.41
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	15	0.41
(2,493)	1:A:154:ASN:HD21	1:A:154:ASN:HD22	15	0.41
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	5	0.41
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	4	0.41
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	12	0.41
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	11	0.41
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	13	0.41
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	6	0.41
(2,996)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	17	0.4
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD22	20	0.4
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD23	20	0.4
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	12	0.4
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	1	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	1	0.4
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	1	0.4
(2,681)	1:A:212:MET:H	1:A:227:SER:H	7	0.4
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	4	0.4
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	16	0.4
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	9	0.4
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	8	0.4
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	8	0.4
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD11	15	0.4
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD12	15	0.4
(2,124)	1:A:45:PHE:H	1:A:48:LEU:HD13	15	0.4
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	8	0.39
(2,865)	1:A:89:VAL:HG22	1:A:200:LEU:HD21	8	0.39
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	4	0.39
(2,846)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	4	0.39
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD22	4	0.39
(2,827)	1:A:89:VAL:HG12	1:A:200:LEU:HD23	4	0.39
(2,805)	1:A:61:ILE:HD11	1:A:48:LEU:HD21	4	0.39
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	19	0.39
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	19	0.39
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	19	0.39
(2,76)	1:A:11:GLN:H	1:A:14:GLN:H	15	0.39
(2,681)	1:A:212:MET:H	1:A:227:SER:H	16	0.39
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	14	0.39
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	14	0.39
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	19	0.39
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	6	0.39
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	12	0.39
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	20	0.39
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	12	0.39
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	4	0.39
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	4	0.39
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	4	0.39
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	18	0.39
(2,154)	1:A:55:ASN:H	1:A:59:ILE:H	13	0.39
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	6	0.39
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	12	0.39
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	8	0.39
(2,1023)	1:A:58:VAL:HG11	1:A:54:LEU:HD21	12	0.39
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	18	0.38
(2,938)	1:A:196:LEU:HD21	1:A:200:LEU:HD21	14	0.38
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	17	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	13	0.38
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	13	0.38
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	19	0.38
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	8	0.38
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	8	0.38
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	9	0.38
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD11	5	0.38
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD12	5	0.38
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD13	5	0.38
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	10	0.38
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	10	0.38
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	10	0.38
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	8	0.38
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	8	0.38
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	8	0.38
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	3	0.38
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	11	0.38
(2,42)	1:A:16:GLN:H	1:A:18:TYR:H	15	0.38
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	5	0.38
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	9	0.38
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	17	0.38
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	3	0.38
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	5	0.38
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	18	0.38
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	16	0.37
(2,815)	1:A:72:VAL:HG11	1:A:74:GLU:H	5	0.37
(2,815)	1:A:72:VAL:HG12	1:A:74:GLU:H	5	0.37
(2,815)	1:A:72:VAL:HG13	1:A:74:GLU:H	5	0.37
(2,814)	1:A:71:ASP:H	1:A:72:VAL:HG11	18	0.37
(2,814)	1:A:71:ASP:H	1:A:72:VAL:HG12	18	0.37
(2,814)	1:A:71:ASP:H	1:A:72:VAL:HG13	18	0.37
(2,787)	1:A:58:VAL:HG21	1:A:43:GLN:HE21	19	0.37
(2,787)	1:A:58:VAL:HG22	1:A:43:GLN:HE21	19	0.37
(2,787)	1:A:58:VAL:HG23	1:A:43:GLN:HE21	19	0.37
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	13	0.37
(2,645)	1:A:199:SER:H	1:A:202:MET:H	11	0.37
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD11	20	0.37
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD12	20	0.37
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD13	20	0.37
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	11	0.37
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	11	0.37
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	11	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	6	0.37
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	6	0.37
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	6	0.37
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	5	0.37
(2,489)	1:A:154:ASN:H	1:A:64:LYS:H	15	0.37
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	9	0.37
(2,42)	1:A:16:GLN:H	1:A:18:TYR:H	11	0.37
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	19	0.37
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	19	0.37
(2,319)	1:A:106:ASP:H	1:A:102:HIS:HD2	9	0.37
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	7	0.37
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	1	0.37
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	1	0.37
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	1	0.37
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	1	0.37
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	6	0.37
(3,22)	1:A:144:GLY:H	4:A:307:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:309:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:310:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:311:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:314:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:317:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:318:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:319:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:320:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:321:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:322:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:324:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:325:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:330:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:332:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:338:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:340:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:341:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:345:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:347:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:348:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:349:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:352:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:353:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:357:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:401:PX4:C35	18	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,22)	1:A:144:GLY:H	4:A:402:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:403:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:404:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:405:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:406:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:409:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:413:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:414:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:417:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:419:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:423:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:424:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:425:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:426:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:427:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:428:PX4:C35	18	0.36
(3,22)	1:A:144:GLY:H	4:A:429:PX4:C35	18	0.36
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD22	17	0.36
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD23	17	0.36
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	18	0.36
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	18	0.36
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	18	0.36
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	19	0.36
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	19	0.36
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	19	0.36
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	17	0.36
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	9	0.36
(2,845)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	2	0.36
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	15	0.36
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	15	0.36
(2,826)	1:A:89:VAL:HG12	1:A:200:LEU:HD21	2	0.36
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	15	0.36
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	15	0.36
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG11	1	0.36
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG12	1	0.36
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG13	1	0.36
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG11	1	0.36
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG12	1	0.36
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG13	1	0.36
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG11	5	0.36
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG12	5	0.36
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG13	5	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG11	5	0.36
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG12	5	0.36
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG13	5	0.36
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG11	14	0.36
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG12	14	0.36
(2,773)	1:A:39:LEU:HD21	1:A:58:VAL:HG13	14	0.36
(2,653)	1:A:200:LEU:H	1:A:202:MET:H	16	0.36
(2,649)	1:A:200:LEU:HD21	1:A:199:SER:H	11	0.36
(2,645)	1:A:199:SER:H	1:A:202:MET:H	5	0.36
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	8	0.36
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	16	0.36
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	17	0.36
(2,465)	1:A:137:GLY:H	1:A:95:SER:H	3	0.36
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	11	0.36
(2,42)	1:A:16:GLN:H	1:A:18:TYR:H	19	0.36
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	2	0.36
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	2	0.36
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	4	0.36
(2,287)	1:A:95:SER:H	1:A:137:GLY:H	3	0.36
(2,226)	1:A:75:TYR:H	1:A:73:ALA:HA	2	0.36
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	19	0.36
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	2	0.36
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	19	0.36
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	8	0.36
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	8	0.36
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	8	0.36
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	10	0.36
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	10	0.36
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	10	0.36
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	13	0.36
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	20	0.36
(2,996)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	4	0.35
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD22	4	0.35
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD23	4	0.35
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD22	5	0.35
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD23	5	0.35
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	14	0.35
(2,787)	1:A:58:VAL:HG21	1:A:43:GLN:HE21	10	0.35
(2,787)	1:A:58:VAL:HG22	1:A:43:GLN:HE21	10	0.35
(2,787)	1:A:58:VAL:HG23	1:A:43:GLN:HE21	10	0.35
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	12	0.35
(2,681)	1:A:212:MET:H	1:A:227:SER:H	8	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	4	0.35
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	4	0.35
(2,645)	1:A:199:SER:H	1:A:202:MET:H	1	0.35
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	17	0.35
(2,610)	1:A:188:PHE:H	1:A:191:ALA:H	3	0.35
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD22	13	0.35
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD23	13	0.35
(2,589)	1:A:179:THR:H	1:A:100:LEU:HD22	6	0.35
(2,589)	1:A:179:THR:H	1:A:100:LEU:HD23	6	0.35
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	20	0.35
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	10	0.35
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	9	0.35
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	12	0.35
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	9	0.35
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	15	0.35
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	4	0.35
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	14	0.35
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	14	0.35
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	17	0.35
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	14	0.35
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	20	0.35
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD11	17	0.35
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD12	17	0.35
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD13	17	0.35
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	16	0.35
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	16	0.35
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	10	0.35
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	10	0.35
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	10	0.35
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	4	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	4	0.34
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	4	0.34
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD22	19	0.34
(2,991)	1:A:186:ILE:HD12	1:A:156:LEU:HD23	19	0.34
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	11	0.34
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	6	0.34
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	16	0.34
(2,72)	1:A:11:GLN:H	1:A:11:GLN:HE21	6	0.34
(2,636)	1:A:198:HIS:H	1:A:195:ALA:H	4	0.34
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	4	0.34
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	4	0.34
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	4	0.34
(2,526)	1:A:160:PHE:H	1:A:168:GLY:H	2	0.34
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	11	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	11	0.34
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	7	0.34
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	12	0.34
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	16	0.34
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	7	0.34
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	3	0.34
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	10	0.34
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	4	0.34
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	14	0.34
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	1	0.34
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	3	0.34
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	15	0.34
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	19	0.34
(2,348)	1:A:189:LEU:HD22	1:A:112:ALA:H	20	0.34
(2,348)	1:A:189:LEU:HD23	1:A:112:ALA:H	20	0.34
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	9	0.34
(2,325)	1:A:108:LEU:H	1:A:108:LEU:HD21	7	0.34
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	16	0.34
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD11	15	0.34
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD12	15	0.34
(2,162)	1:A:55:ASN:HD21	1:A:48:LEU:HD13	15	0.34
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	8	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	8	0.34
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	8	0.34
(2,1027)	1:A:58:VAL:HG13	1:A:54:LEU:HD21	13	0.34
(2,1025)	1:A:58:VAL:HG12	1:A:54:LEU:HD21	8	0.34
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	8	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	8	0.33
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	8	0.33
(2,994)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	1	0.33
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	20	0.33
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	20	0.33
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	20	0.33
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	20	0.33
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	20	0.33
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	20	0.33
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	20	0.33
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	20	0.33
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	20	0.33
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	1	0.33
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	7	0.33
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	16	0.33
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	7	0.33
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	1	0.33
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	12	0.33
(2,42)	1:A:16:GLN:H	1:A:18:TYR:H	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	12	0.33
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	13	0.33
(2,279)	1:A:136:ILE:H	1:A:93:ILE:H	12	0.33
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD11	12	0.33
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD12	12	0.33
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD13	12	0.33
(2,235)	1:A:84:TRP:H	1:A:200:LEU:HD21	16	0.33
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	12	0.33
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	12	0.33
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	17	0.33
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	17	0.33
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	17	0.33
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	13	0.33
(2,119)	1:A:189:LEU:H	1:A:189:LEU:HD21	18	0.33
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	15	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	15	0.33
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	15	0.33
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD22	12	0.32
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD23	12	0.32
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	5	0.32
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	1	0.32
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	1	0.32
(2,940)	1:A:196:LEU:HD22	1:A:200:LEU:HD21	15	0.32
(2,912)	1:A:113:LEU:H	1:A:196:LEU:HD21	9	0.32
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	5	0.32
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	5	0.32
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	5	0.32
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	5	0.32
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG11	8	0.32
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG12	8	0.32
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG13	8	0.32
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG11	8	0.32
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG12	8	0.32
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG13	8	0.32
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	19	0.32
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	19	0.32
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	3	0.32
(2,658)	1:A:200:LEU:HD21	1:A:201:GLY:H	6	0.32
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	1	0.32
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD11	1	0.32
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD12	1	0.32
(2,548)	1:A:170:ALA:H	1:A:136:ILE:HD13	1	0.32
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	18	0.32
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	5	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,389)	1:A:120:ILE:HD11	1:A:119:GLU:H	3	0.32
(2,389)	1:A:120:ILE:HD12	1:A:119:GLU:H	3	0.32
(2,389)	1:A:120:ILE:HD13	1:A:119:GLU:H	3	0.32
(2,356)	1:A:113:LEU:H	1:A:196:LEU:HD21	9	0.32
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	2	0.32
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	2	0.32
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	2	0.32
(2,138)	1:A:48:LEU:HD21	1:A:47:GLY:H	2	0.32
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	4	0.32
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C3	19	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C3	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C4	19	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C4	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:307:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:309:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:310:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:311:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:314:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:317:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:318:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:319:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:320:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:321:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:322:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:324:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:325:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:330:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:332:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:338:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:340:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:341:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:345:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:347:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:348:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:349:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:352:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:353:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:357:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:401:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:402:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:403:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:404:PX4:C5	19	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1055)	1:A:123:HIS:H	4:A:405:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:406:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:409:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:413:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:414:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:417:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:419:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:423:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:424:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:425:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:426:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:427:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:428:PX4:C5	19	0.32
(2,1055)	1:A:123:HIS:H	4:A:429:PX4:C5	19	0.32
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	15	0.31
(2,862)	1:A:123:HIS:H	1:A:122:LEU:HD11	19	0.31
(2,862)	1:A:123:HIS:H	1:A:122:LEU:HD12	19	0.31
(2,862)	1:A:123:HIS:H	1:A:122:LEU:HD13	19	0.31
(2,760)	1:A:15:ALA:H	1:A:59:ILE:HD11	18	0.31
(2,760)	1:A:15:ALA:H	1:A:59:ILE:HD12	18	0.31
(2,760)	1:A:15:ALA:H	1:A:59:ILE:HD13	18	0.31
(2,753)	1:A:15:ALA:H	1:A:59:ILE:HD11	18	0.31
(2,753)	1:A:15:ALA:H	1:A:59:ILE:HD12	18	0.31
(2,753)	1:A:15:ALA:H	1:A:59:ILE:HD13	18	0.31
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	3	0.31
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	3	0.31
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	2	0.31
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	3	0.31
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	2	0.31
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	3	0.31
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	11	0.31
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD22	2	0.31
(2,591)	1:A:178:TRP:H	1:A:100:LEU:HD23	2	0.31
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	12	0.31
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	11	0.31
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	10	0.31
(2,490)	1:A:154:ASN:HD22	1:A:154:ASN:H	19	0.31
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	3	0.31
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	2	0.31
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	10	0.31
(2,42)	1:A:16:GLN:H	1:A:18:TYR:H	4	0.31
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	19	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	11	0.31
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	16	0.31
(2,279)	1:A:136:ILE:H	1:A:93:ILE:H	1	0.31
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	10	0.31
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	4	0.31
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	11	0.31
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	8	0.31
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	11	0.31
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	19	0.31
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	14	0.31
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	14	0.31
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	8	0.31
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	11	0.31
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	19	0.31
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	19	0.31
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	19	0.31
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	19	0.31
(2,1059)	1:A:129:TRP:H	4:A:307:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:309:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:310:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:311:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:314:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:317:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:318:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:319:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:320:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:321:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:322:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:324:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:325:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:330:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:332:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:338:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:340:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:341:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:345:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:347:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:348:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:349:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:352:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:353:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:357:PX4:C1	14	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1059)	1:A:129:TRP:H	4:A:401:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:402:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:403:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:404:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:405:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:406:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:409:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:413:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:414:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:417:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:419:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:423:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:424:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:425:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:426:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:427:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:428:PX4:C1	14	0.31
(2,1059)	1:A:129:TRP:H	4:A:429:PX4:C1	14	0.31
(3,31)	1:A:216:TYR:H	4:A:307:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:309:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:310:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:311:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:314:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:317:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:318:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:319:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:320:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:321:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:322:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:324:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:325:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:330:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:332:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:338:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:340:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:341:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:345:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:347:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:348:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:349:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:352:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:353:PX4:C35	13	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:216:TYR:H	4:A:357:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:401:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:402:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:403:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:404:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:405:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:406:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:409:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:413:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:414:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:417:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:419:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:423:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:424:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:425:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:426:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:427:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:428:PX4:C35	13	0.3
(3,31)	1:A:216:TYR:H	4:A:429:PX4:C35	13	0.3
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	5	0.3
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	5	0.3
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	5	0.3
(2,944)	1:A:109:VAL:HG21	1:A:196:LEU:HD21	13	0.3
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	9	0.3
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	9	0.3
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	20	0.3
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	20	0.3
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	20	0.3
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	14	0.3
(2,788)	1:A:58:VAL:HG21	1:A:55:ASN:H	20	0.3
(2,788)	1:A:58:VAL:HG22	1:A:55:ASN:H	20	0.3
(2,788)	1:A:58:VAL:HG23	1:A:55:ASN:H	20	0.3
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG11	4	0.3
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG12	4	0.3
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG13	4	0.3
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG11	4	0.3
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG12	4	0.3
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG13	4	0.3
(2,764)	1:A:19:LEU:HD22	1:A:40:LYS:H	9	0.3
(2,764)	1:A:19:LEU:HD23	1:A:40:LYS:H	9	0.3
(2,763)	1:A:19:LEU:HD21	1:A:40:LYS:H	18	0.3
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	20	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	8	0.3
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	12	0.3
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	12	0.3
(2,636)	1:A:198:HIS:H	1:A:195:ALA:H	1	0.3
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	8	0.3
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	15	0.3
(2,589)	1:A:179:THR:H	1:A:100:LEU:HD22	20	0.3
(2,589)	1:A:179:THR:H	1:A:100:LEU:HD23	20	0.3
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	2	0.3
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	4	0.3
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	12	0.3
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG13	4	0.3
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG12	4	0.3
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	5	0.3
(2,543)	1:A:170:ALA:H	1:A:169:ASP:H	9	0.3
(2,526)	1:A:160:PHE:H	1:A:168:GLY:H	13	0.3
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	20	0.3
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	6	0.3
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	17	0.3
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	7	0.3
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD11	1	0.3
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD12	1	0.3
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD13	1	0.3
(2,465)	1:A:137:GLY:H	1:A:95:SER:H	12	0.3
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	7	0.3
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	11	0.3
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	8	0.3
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	11	0.3
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	18	0.3
(2,287)	1:A:95:SER:H	1:A:137:GLY:H	12	0.3
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD11	11	0.3
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD12	11	0.3
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD13	11	0.3
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	8	0.3
(2,202)	1:A:64:LYS:H	1:A:64:LYS:HG3	18	0.3
(2,202)	1:A:64:LYS:H	1:A:64:LYS:HG2	18	0.3
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	11	0.3
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	9	0.3
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	14	0.3
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD22	16	0.3
(2,164)	1:A:55:ASN:HD21	1:A:48:LEU:HD23	16	0.3
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	9	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	14	0.3
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG21	20	0.3
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG22	20	0.3
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG23	20	0.3
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	4	0.3
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	1	0.3
(2,1059)	1:A:129:TRP:H	4:A:307:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:309:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:310:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:311:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:314:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:317:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:318:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:319:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:320:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:321:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:322:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:324:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:325:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:330:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:332:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:338:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:340:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:341:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:345:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:347:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:348:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:349:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:352:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:353:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:357:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:401:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:402:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:403:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:404:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:405:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:406:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:409:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:413:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:414:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:417:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:419:PX4:C1	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1059)	1:A:129:TRP:H	4:A:423:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:424:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:425:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:426:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:427:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:428:PX4:C1	6	0.3
(2,1059)	1:A:129:TRP:H	4:A:429:PX4:C1	6	0.3
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD22	11	0.3
(2,1026)	1:A:58:VAL:HG12	1:A:54:LEU:HD23	11	0.3
(3,36)	1:A:5:GLY:H	4:A:307:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:307:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:307:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:309:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:309:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:309:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:310:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:310:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:310:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:311:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:311:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:311:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:314:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:314:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:314:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:317:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:317:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:317:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:318:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:318:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:318:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:319:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:319:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:319:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:320:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:320:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:320:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:321:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:321:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:321:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:322:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:322:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:322:PX4:C5	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,36)	1:A:5:GLY:H	4:A:324:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:324:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:324:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:325:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:325:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:325:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:330:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:330:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:330:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:332:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:332:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:332:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:338:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:338:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:338:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:340:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:340:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:340:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:341:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:341:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:341:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:345:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:345:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:345:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:347:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:347:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:347:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:348:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:348:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:348:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:349:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:349:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:349:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:352:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:352:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:352:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:353:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:353:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:353:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:357:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:357:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:357:PX4:C5	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,36)	1:A:5:GLY:H	4:A:401:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:401:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:401:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:402:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:402:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:402:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:403:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:403:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:403:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:404:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:404:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:404:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:405:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:405:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:405:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:406:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:406:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:406:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:409:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:409:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:409:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:413:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:413:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:413:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:414:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:414:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:414:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:417:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:417:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:417:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:419:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:419:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:419:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:423:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:423:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:423:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:424:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:424:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:424:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:425:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:425:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:425:PX4:C5	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,36)	1:A:5:GLY:H	4:A:426:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:426:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:426:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:427:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:427:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:427:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:428:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:428:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:428:PX4:C5	15	0.29
(3,36)	1:A:5:GLY:H	4:A:429:PX4:C3	15	0.29
(3,36)	1:A:5:GLY:H	4:A:429:PX4:C4	15	0.29
(3,36)	1:A:5:GLY:H	4:A:429:PX4:C5	15	0.29
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	10	0.29
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	10	0.29
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	10	0.29
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD22	20	0.29
(2,941)	1:A:196:LEU:HD22	1:A:200:LEU:HD23	20	0.29
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	13	0.29
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	13	0.29
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	13	0.29
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	14	0.29
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	14	0.29
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	14	0.29
(2,879)	1:A:127:VAL:HG11	1:A:91:TYR:H	6	0.29
(2,879)	1:A:127:VAL:HG12	1:A:91:TYR:H	6	0.29
(2,879)	1:A:127:VAL:HG13	1:A:91:TYR:H	6	0.29
(2,676)	1:A:210:ALA:H	1:A:213:TYR:H	19	0.29
(2,645)	1:A:199:SER:H	1:A:202:MET:H	9	0.29
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG21	14	0.29
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG22	14	0.29
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG23	14	0.29
(2,465)	1:A:137:GLY:H	1:A:95:SER:H	13	0.29
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	19	0.29
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	20	0.29
(2,42)	1:A:16:GLN:H	1:A:18:TYR:H	13	0.29
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	13	0.29
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	6	0.29
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	6	0.29
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	6	0.29
(2,287)	1:A:95:SER:H	1:A:137:GLY:H	13	0.29
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD11	14	0.29
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD12	14	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD13	14	0.29
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	9	0.29
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	2	0.29
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	10	0.29
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	3	0.29
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD22	2	0.28
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD23	2	0.28
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	3	0.28
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	3	0.28
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	3	0.28
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	4	0.28
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	4	0.28
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	11	0.28
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	19	0.28
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	19	0.28
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	19	0.28
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	19	0.28
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	19	0.28
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	19	0.28
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	19	0.28
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	19	0.28
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	19	0.28
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	10	0.28
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	13	0.28
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	10	0.28
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	13	0.28
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	14	0.28
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	13	0.28
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	13	0.28
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	13	0.28
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	16	0.28
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	1	0.28
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	8	0.28
(2,398)	1:A:122:LEU:H	1:A:120:ILE:HG13	20	0.28
(2,398)	1:A:122:LEU:H	1:A:120:ILE:HG12	20	0.28
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	14	0.28
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	19	0.28
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	11	0.28
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	7	0.28
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	17	0.28
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	17	0.28
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	5	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	9	0.28
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	1	0.28
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	6	0.28
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	15	0.28
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	1	0.28
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	6	0.28
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	15	0.28
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	15	0.28
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	9	0.28
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	11	0.28
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	12	0.28
(2,995)	1:A:186:ILE:HD11	1:A:156:LEU:HD22	11	0.27
(2,995)	1:A:186:ILE:HD11	1:A:156:LEU:HD23	11	0.27
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD11	13	0.27
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD12	13	0.27
(2,963)	1:A:200:LEU:HD21	1:A:122:LEU:HD13	13	0.27
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	10	0.27
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	6	0.27
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	6	0.27
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	6	0.27
(2,891)	1:A:105:VAL:HG21	1:A:105:VAL:H	1	0.27
(2,891)	1:A:105:VAL:HG22	1:A:105:VAL:H	1	0.27
(2,891)	1:A:105:VAL:HG23	1:A:105:VAL:H	1	0.27
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	16	0.27
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	16	0.27
(2,843)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	14	0.27
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	16	0.27
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	16	0.27
(2,824)	1:A:89:VAL:HG11	1:A:200:LEU:HD21	14	0.27
(2,728)	1:A:236:LYS:H	1:A:237:LEU:H	14	0.27
(2,728)	1:A:236:LYS:H	1:A:237:LEU:H	14	0.27
(2,681)	1:A:212:MET:H	1:A:227:SER:H	17	0.27
(2,675)	1:A:210:ALA:H	1:A:209:ASN:HD22	12	0.27
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	1	0.27
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	7	0.27
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	19	0.27
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	1	0.27
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	7	0.27
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	19	0.27
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	4	0.27
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	8	0.27
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	20	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	5	0.27
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	6	0.27
(2,313)	1:A:105:VAL:HG21	1:A:105:VAL:H	1	0.27
(2,313)	1:A:105:VAL:HG22	1:A:105:VAL:H	1	0.27
(2,313)	1:A:105:VAL:HG23	1:A:105:VAL:H	1	0.27
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	14	0.27
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	14	0.27
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	14	0.27
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	15	0.27
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	15	0.27
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	3	0.27
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	3	0.27
(2,157)	1:A:55:ASN:H	1:A:59:ILE:HG13	5	0.27
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	2	0.27
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	5	0.27
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	6	0.27
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	19	0.27
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	4	0.26
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	4	0.26
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	4	0.26
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD22	4	0.26
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	4	0.26
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	9	0.26
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	9	0.26
(2,879)	1:A:127:VAL:HG11	1:A:91:TYR:H	1	0.26
(2,879)	1:A:127:VAL:HG12	1:A:91:TYR:H	1	0.26
(2,879)	1:A:127:VAL:HG13	1:A:91:TYR:H	1	0.26
(2,874)	1:A:89:VAL:HG13	1:A:122:LEU:HD21	6	0.26
(2,79)	1:A:25:TYR:H	1:A:26:ASP:H	8	0.26
(2,787)	1:A:58:VAL:HG21	1:A:43:GLN:HE21	1	0.26
(2,787)	1:A:58:VAL:HG22	1:A:43:GLN:HE21	1	0.26
(2,787)	1:A:58:VAL:HG23	1:A:43:GLN:HE21	1	0.26
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	10	0.26
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	5	0.26
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	8	0.26
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	14	0.26
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	20	0.26
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	5	0.26
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	8	0.26
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	14	0.26
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	20	0.26
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	12	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	8	0.26
(2,526)	1:A:160:PHE:H	1:A:168:GLY:H	4	0.26
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	11	0.26
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	6	0.26
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	12	0.26
(2,319)	1:A:106:ASP:H	1:A:102:HIS:HD2	16	0.26
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	4	0.26
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD22	19	0.26
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD23	19	0.26
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD11	19	0.26
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD12	19	0.26
(2,217)	1:A:74:GLU:H	1:A:24:LEU:HD13	19	0.26
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	3	0.26
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	3	0.26
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	3	0.26
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	8	0.26
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	8	0.26
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	8	0.26
(2,204)	1:A:66:ARG:H	1:A:67:CYS:H	14	0.26
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	13	0.26
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	13	0.26
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	18	0.26
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	13	0.26
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	18	0.26
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	8	0.26
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	6	0.26
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	12	0.26
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	13	0.26
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	16	0.26
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	16	0.26
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	15	0.26
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	18	0.26
(2,994)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	7	0.25
(2,946)	1:A:109:VAL:HG22	1:A:196:LEU:HD21	18	0.25
(2,908)	1:A:91:TYR:HE1	1:A:109:VAL:HG11	18	0.25
(2,908)	1:A:91:TYR:HE1	1:A:109:VAL:HG12	18	0.25
(2,908)	1:A:91:TYR:HE1	1:A:109:VAL:HG13	18	0.25
(2,908)	1:A:91:TYR:HE2	1:A:109:VAL:HG11	18	0.25
(2,908)	1:A:91:TYR:HE2	1:A:109:VAL:HG12	18	0.25
(2,908)	1:A:91:TYR:HE2	1:A:109:VAL:HG13	18	0.25
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG11	7	0.25
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG12	7	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,774)	1:A:39:LEU:HD22	1:A:58:VAL:HG13	7	0.25
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG11	7	0.25
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG12	7	0.25
(2,774)	1:A:39:LEU:HD23	1:A:58:VAL:HG13	7	0.25
(2,771)	1:A:19:LEU:HD21	1:A:22:PHE:H	20	0.25
(2,764)	1:A:19:LEU:HD22	1:A:40:LYS:H	7	0.25
(2,764)	1:A:19:LEU:HD23	1:A:40:LYS:H	7	0.25
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	5	0.25
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	6	0.25
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	9	0.25
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	6	0.25
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	9	0.25
(2,649)	1:A:200:LEU:HD21	1:A:199:SER:H	2	0.25
(2,639)	1:A:198:HIS:H	1:A:202:MET:H	14	0.25
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	17	0.25
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	20	0.25
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	14	0.25
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	9	0.25
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	19	0.25
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	10	0.25
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	18	0.25
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	2	0.25
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	2	0.25
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	18	0.25
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	19	0.25
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	17	0.25
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD11	3	0.25
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD12	3	0.25
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD13	3	0.25
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	5	0.25
(2,243)	1:A:87:LYS:H	1:A:88:VAL:H	8	0.25
(2,241)	1:A:87:LYS:H	1:A:88:VAL:H	8	0.25
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	4	0.25
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	4	0.25
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	4	0.25
(2,153)	1:A:55:ASN:H	1:A:55:ASN:HD21	13	0.25
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	3	0.25
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	8	0.25
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	8	0.25
(2,135)	1:A:46:PHE:H	1:A:48:LEU:H	8	0.25
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	4	0.25
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	16	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,108)	1:A:43:GLN:H	1:A:46:PHE:H	16	0.25
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD22	9	0.24
(2,949)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	9	0.24
(2,758)	1:A:136:ILE:H	1:A:94:VAL:HG11	3	0.24
(2,758)	1:A:136:ILE:H	1:A:94:VAL:HG12	3	0.24
(2,758)	1:A:136:ILE:H	1:A:94:VAL:HG13	3	0.24
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	10	0.24
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	10	0.24
(2,676)	1:A:210:ALA:H	1:A:213:TYR:H	2	0.24
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	18	0.24
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	18	0.24
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	8	0.24
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	9	0.24
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	19	0.24
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	14	0.24
(2,542)	1:A:170:ALA:H	1:A:137:GLY:H	12	0.24
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	8	0.24
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	2	0.24
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	18	0.24
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	18	0.24
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD22	4	0.24
(2,236)	1:A:84:TRP:H	1:A:200:LEU:HD23	4	0.24
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	4	0.24
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	4	0.24
(2,204)	1:A:66:ARG:H	1:A:67:CYS:H	13	0.24
(2,20)	1:A:10:LEU:H	1:A:10:LEU:HD11	2	0.24
(2,20)	1:A:10:LEU:H	1:A:10:LEU:HD12	2	0.24
(2,20)	1:A:10:LEU:H	1:A:10:LEU:HD13	2	0.24
(2,2)	1:A:200:LEU:HD11	1:A:234:ILE:HG13	2	0.24
(2,2)	1:A:200:LEU:HD12	1:A:234:ILE:HG13	2	0.24
(2,2)	1:A:200:LEU:HD13	1:A:234:ILE:HG13	2	0.24
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	7	0.24
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	17	0.24
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	17	0.24
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	3	0.24
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	13	0.24
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	13	0.24
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD22	10	0.23
(2,989)	1:A:186:ILE:HD11	1:A:156:LEU:HD23	10	0.23
(2,988)	1:A:186:ILE:HD11	1:A:156:LEU:HD21	19	0.23
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	13	0.23
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	13	0.23
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	13	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	13	0.23
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	13	0.23
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	13	0.23
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	8	0.23
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	13	0.23
(2,902)	1:A:109:VAL:HG11	1:A:105:VAL:HG11	12	0.23
(2,902)	1:A:109:VAL:HG11	1:A:105:VAL:HG12	12	0.23
(2,902)	1:A:109:VAL:HG11	1:A:105:VAL:HG13	12	0.23
(2,902)	1:A:109:VAL:HG12	1:A:105:VAL:HG11	12	0.23
(2,902)	1:A:109:VAL:HG12	1:A:105:VAL:HG12	12	0.23
(2,902)	1:A:109:VAL:HG12	1:A:105:VAL:HG13	12	0.23
(2,902)	1:A:109:VAL:HG13	1:A:105:VAL:HG11	12	0.23
(2,902)	1:A:109:VAL:HG13	1:A:105:VAL:HG12	12	0.23
(2,902)	1:A:109:VAL:HG13	1:A:105:VAL:HG13	12	0.23
(2,891)	1:A:105:VAL:HG21	1:A:105:VAL:H	7	0.23
(2,891)	1:A:105:VAL:HG22	1:A:105:VAL:H	7	0.23
(2,891)	1:A:105:VAL:HG23	1:A:105:VAL:H	7	0.23
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD22	12	0.23
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD23	12	0.23
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	16	0.23
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	16	0.23
(2,649)	1:A:200:LEU:HD21	1:A:199:SER:H	10	0.23
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	5	0.23
(2,635)	1:A:116:TRP:HE1	1:A:198:HIS:H	18	0.23
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG21	9	0.23
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG22	9	0.23
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG23	9	0.23
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	5	0.23
(2,542)	1:A:170:ALA:H	1:A:137:GLY:H	7	0.23
(2,436)	1:A:133:ASP:H	1:A:92:ARG:H	14	0.23
(2,402)	1:A:122:LEU:H	1:A:200:LEU:HD21	20	0.23
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	5	0.23
(2,372)	1:A:116:TRP:HE1	1:A:198:HIS:H	18	0.23
(2,347)	1:A:189:LEU:HD21	1:A:112:ALA:H	16	0.23
(2,313)	1:A:105:VAL:HG21	1:A:105:VAL:H	7	0.23
(2,313)	1:A:105:VAL:HG22	1:A:105:VAL:H	7	0.23
(2,313)	1:A:105:VAL:HG23	1:A:105:VAL:H	7	0.23
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	19	0.23
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	19	0.23
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	20	0.23
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	7	0.23
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	16	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	20	0.23
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	7	0.23
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	16	0.23
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	20	0.23
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	16	0.23
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	9	0.23
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	9	0.23
(2,129)	1:A:46:PHE:H	1:A:47:GLY:H	4	0.23
(2,129)	1:A:46:PHE:H	1:A:47:GLY:H	4	0.23
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	17	0.23
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	20	0.23
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	1	0.23
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	1	0.23
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD22	7	0.22
(2,943)	1:A:196:LEU:HD23	1:A:200:LEU:HD23	7	0.22
(2,905)	1:A:109:VAL:HG21	1:A:113:LEU:HB2	1	0.22
(2,905)	1:A:109:VAL:HG22	1:A:113:LEU:HB2	1	0.22
(2,905)	1:A:109:VAL:HG23	1:A:113:LEU:HB2	1	0.22
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	16	0.22
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	16	0.22
(2,761)	1:A:19:LEU:HD21	1:A:38:LYS:H	2	0.22
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	15	0.22
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	15	0.22
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	16	0.22
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	15	0.22
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	16	0.22
(2,645)	1:A:199:SER:H	1:A:202:MET:H	2	0.22
(2,645)	1:A:199:SER:H	1:A:202:MET:H	15	0.22
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	15	0.22
(2,610)	1:A:188:PHE:H	1:A:191:ALA:H	7	0.22
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD11	10	0.22
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD12	10	0.22
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD13	10	0.22
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	10	0.22
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	15	0.22
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	8	0.22
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	10	0.22
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	5	0.22
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	20	0.22
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	16	0.22
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	9	0.22
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	9	0.22
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	1	0.22
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	12	0.22
(2,292)	1:A:100:LEU:H	1:A:99:ASP:H	19	0.22
(2,292)	1:A:100:LEU:H	1:A:99:ASP:H	19	0.22
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD11	13	0.22
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD12	13	0.22
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD13	13	0.22
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	11	0.22
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	10	0.22
(2,245)	1:A:88:VAL:H	1:A:123:HIS:H	19	0.22
(2,216)	1:A:74:GLU:H	1:A:24:LEU:HD21	17	0.22
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG21	4	0.22
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG22	4	0.22
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG23	4	0.22
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG11	4	0.22
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG12	4	0.22
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG13	4	0.22
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	10	0.22
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	10	0.22
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	2	0.22
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	10	0.22
(2,144)	1:A:52:GLY:H	1:A:51:THR:H	20	0.22
(2,119)	1:A:189:LEU:H	1:A:189:LEU:HD21	1	0.22
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	8	0.22
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	10	0.22
(2,990)	1:A:186:ILE:HD12	1:A:156:LEU:HD21	2	0.21
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	17	0.21
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	17	0.21
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	17	0.21
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD22	1	0.21
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD23	1	0.21
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD22	15	0.21
(2,945)	1:A:109:VAL:HG21	1:A:196:LEU:HD23	15	0.21
(2,942)	1:A:196:LEU:HD23	1:A:200:LEU:HD21	16	0.21
(2,815)	1:A:72:VAL:HG11	1:A:74:GLU:H	11	0.21
(2,815)	1:A:72:VAL:HG12	1:A:74:GLU:H	11	0.21
(2,815)	1:A:72:VAL:HG13	1:A:74:GLU:H	11	0.21
(2,79)	1:A:25:TYR:H	1:A:26:ASP:H	6	0.21
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	11	0.21
(2,669)	1:A:207:ASP:H	1:A:206:SER:H	1	0.21
(2,669)	1:A:207:ASP:H	1:A:206:SER:H	1	0.21
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG21	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG22	8	0.21
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG23	8	0.21
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	17	0.21
(2,518)	1:A:161:ALA:H	1:A:161:ALA:HB1	10	0.21
(2,518)	1:A:161:ALA:H	1:A:161:ALA:HB2	10	0.21
(2,518)	1:A:161:ALA:H	1:A:161:ALA:HB3	10	0.21
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	5	0.21
(2,499)	1:A:156:LEU:H	1:A:157:ALA:H	4	0.21
(2,496)	1:A:156:LEU:H	1:A:157:ALA:H	4	0.21
(2,482)	1:A:140:ARG:H	1:A:141:GLY:H	6	0.21
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	3	0.21
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	13	0.21
(2,42)	1:A:16:GLN:H	1:A:18:TYR:H	20	0.21
(2,396)	1:A:120:ILE:H	1:A:122:LEU:H	5	0.21
(2,396)	1:A:120:ILE:H	1:A:122:LEU:H	17	0.21
(2,308)	1:A:103:ILE:H	1:A:103:ILE:HG13	1	0.21
(2,308)	1:A:103:ILE:H	1:A:103:ILE:HG12	1	0.21
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	10	0.21
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	10	0.21
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD11	6	0.21
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD12	6	0.21
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD13	6	0.21
(2,252)	1:A:89:VAL:H	1:A:123:HIS:H	19	0.21
(2,226)	1:A:75:TYR:H	1:A:73:ALA:HA	18	0.21
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	4	0.21
(2,21)	1:A:10:LEU:H	1:A:10:LEU:HD21	17	0.21
(2,204)	1:A:66:ARG:H	1:A:67:CYS:H	5	0.21
(2,182)	1:A:59:ILE:HG13	1:A:60:GLU:H	17	0.21
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	5	0.21
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	12	0.21
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	5	0.21
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	12	0.21
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	11	0.21
(2,142)	1:A:50:ILE:H	1:A:50:ILE:HD11	11	0.21
(2,142)	1:A:50:ILE:H	1:A:50:ILE:HD12	11	0.21
(2,142)	1:A:50:ILE:H	1:A:50:ILE:HD13	11	0.21
(2,141)	1:A:50:ILE:H	1:A:50:ILE:HG12	14	0.21
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	7	0.21
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	7	0.21
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	14	0.21
(2,111)	1:A:43:GLN:H	1:A:43:GLN:HE21	10	0.21
(2,103)	1:A:41:GLU:H	1:A:43:GLN:H	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	16	0.2
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	16	0.2
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	16	0.2
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD22	20	0.2
(2,947)	1:A:109:VAL:HG23	1:A:196:LEU:HD23	20	0.2
(2,91)	1:A:37:ALA:H	1:A:36:GLU:H	3	0.2
(2,883)	1:A:91:TYR:HE1	1:A:93:ILE:HD11	18	0.2
(2,883)	1:A:91:TYR:HE1	1:A:93:ILE:HD12	18	0.2
(2,883)	1:A:91:TYR:HE1	1:A:93:ILE:HD13	18	0.2
(2,883)	1:A:91:TYR:HE2	1:A:93:ILE:HD11	18	0.2
(2,883)	1:A:91:TYR:HE2	1:A:93:ILE:HD12	18	0.2
(2,883)	1:A:91:TYR:HE2	1:A:93:ILE:HD13	18	0.2
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD22	15	0.2
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD23	15	0.2
(2,85)	1:A:34:SER:H	1:A:35:LEU:H	3	0.2
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	14	0.2
(2,844)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	14	0.2
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD22	14	0.2
(2,825)	1:A:89:VAL:HG11	1:A:200:LEU:HD23	14	0.2
(2,815)	1:A:72:VAL:HG11	1:A:74:GLU:H	2	0.2
(2,815)	1:A:72:VAL:HG12	1:A:74:GLU:H	2	0.2
(2,815)	1:A:72:VAL:HG13	1:A:74:GLU:H	2	0.2
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	9	0.2
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	17	0.2
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	17	0.2
(2,649)	1:A:200:LEU:HD21	1:A:199:SER:H	14	0.2
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD11	7	0.2
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD12	7	0.2
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD13	7	0.2
(2,556)	1:A:158:HIS:H	1:A:173:ASP:H	11	0.2
(2,544)	1:A:136:ILE:H	1:A:170:ALA:H	20	0.2
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	18	0.2
(2,412)	1:A:125:ARG:H	1:A:89:VAL:H	9	0.2
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	1	0.2
(2,319)	1:A:106:ASP:H	1:A:102:HIS:HD2	20	0.2
(2,318)	1:A:104:THR:H	1:A:106:ASP:H	11	0.2
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	8	0.2
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD11	7	0.2
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD12	7	0.2
(2,275)	1:A:92:ARG:H	1:A:136:ILE:HD13	7	0.2
(2,253)	1:A:89:VAL:H	1:A:125:ARG:H	9	0.2
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,235)	1:A:84:TRP:H	1:A:200:LEU:HD21	19	0.2
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG11	11	0.2
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG12	11	0.2
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG13	11	0.2
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	4	0.2
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	17	0.2
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	20	0.2
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	16	0.2
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	16	0.2
(2,1027)	1:A:58:VAL:HG13	1:A:54:LEU:HD21	2	0.2
(2,982)	1:A:69:VAL:HG21	1:A:161:ALA:H	8	0.19
(2,982)	1:A:69:VAL:HG22	1:A:161:ALA:H	8	0.19
(2,982)	1:A:69:VAL:HG23	1:A:161:ALA:H	8	0.19
(2,91)	1:A:37:ALA:H	1:A:36:GLU:H	13	0.19
(2,891)	1:A:105:VAL:HG21	1:A:105:VAL:H	20	0.19
(2,891)	1:A:105:VAL:HG22	1:A:105:VAL:H	20	0.19
(2,891)	1:A:105:VAL:HG23	1:A:105:VAL:H	20	0.19
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD22	9	0.19
(2,871)	1:A:89:VAL:HG11	1:A:122:LEU:HD23	9	0.19
(2,787)	1:A:58:VAL:HG21	1:A:43:GLN:HE21	11	0.19
(2,787)	1:A:58:VAL:HG22	1:A:43:GLN:HE21	11	0.19
(2,787)	1:A:58:VAL:HG23	1:A:43:GLN:HE21	11	0.19
(2,787)	1:A:58:VAL:HG21	1:A:43:GLN:HE21	18	0.19
(2,787)	1:A:58:VAL:HG22	1:A:43:GLN:HE21	18	0.19
(2,787)	1:A:58:VAL:HG23	1:A:43:GLN:HE21	18	0.19
(2,687)	1:A:213:TYR:H	1:A:211:VAL:H	9	0.19
(2,679)	1:A:213:TYR:H	1:A:211:VAL:H	9	0.19
(2,672)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	11	0.19
(2,670)	1:A:209:ASN:HD22	1:A:209:ASN:HD21	11	0.19
(2,590)	1:A:178:TRP:H	1:A:100:LEU:HD21	3	0.19
(2,550)	1:A:159:ALA:H	1:A:171:HIS:H	11	0.19
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG13	12	0.19
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG12	12	0.19
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	5	0.19
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	5	0.19
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	5	0.19
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	15	0.19
(2,498)	1:A:66:ARG:H	1:A:156:LEU:H	10	0.19
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	17	0.19
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	18	0.19
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	12	0.19
(2,319)	1:A:106:ASP:H	1:A:102:HIS:HD2	14	0.19
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,313)	1:A:105:VAL:HG21	1:A:105:VAL:H	20	0.19
(2,313)	1:A:105:VAL:HG22	1:A:105:VAL:H	20	0.19
(2,313)	1:A:105:VAL:HG23	1:A:105:VAL:H	20	0.19
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	17	0.19
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	17	0.19
(2,279)	1:A:136:ILE:H	1:A:93:ILE:H	9	0.19
(2,203)	1:A:66:ARG:H	1:A:156:LEU:H	10	0.19
(2,117)	1:A:44:LYS:H	1:A:47:GLY:H	19	0.19
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	7	0.19
(2,112)	1:A:43:GLN:HE21	1:A:43:GLN:HE22	13	0.19
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	6	0.18
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	6	0.18
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD22	8	0.18
(2,873)	1:A:89:VAL:HG12	1:A:122:LEU:HD23	8	0.18
(2,764)	1:A:19:LEU:HD22	1:A:40:LYS:H	4	0.18
(2,764)	1:A:19:LEU:HD23	1:A:40:LYS:H	4	0.18
(2,681)	1:A:212:MET:H	1:A:227:SER:H	12	0.18
(2,681)	1:A:212:MET:H	1:A:227:SER:H	20	0.18
(2,649)	1:A:200:LEU:HD21	1:A:199:SER:H	4	0.18
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	17	0.18
(2,579)	1:A:178:TRP:HE1	1:A:175:ASP:H	9	0.18
(2,550)	1:A:159:ALA:H	1:A:171:HIS:H	16	0.18
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	15	0.18
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD11	17	0.18
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD12	17	0.18
(2,539)	1:A:169:ASP:H	1:A:166:LEU:HD13	17	0.18
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD11	17	0.18
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD12	17	0.18
(2,538)	1:A:169:ASP:H	1:A:134:ILE:HD13	17	0.18
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD11	20	0.18
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD12	20	0.18
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD13	20	0.18
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	9	0.18
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	7	0.18
(2,319)	1:A:106:ASP:H	1:A:102:HIS:HD2	18	0.18
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	17	0.18
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	1	0.18
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	1	0.18
(2,214)	1:A:72:VAL:H	1:A:71:ASP:H	20	0.18
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	13	0.18
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	13	0.18
(2,191)	1:A:61:ILE:H	1:A:62:MET:H	15	0.18
(2,185)	1:A:61:ILE:H	1:A:62:MET:H	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,171)	1:A:55:ASN:H	1:A:58:VAL:H	13	0.18
(2,151)	1:A:55:ASN:H	1:A:58:VAL:H	13	0.18
(2,133)	1:A:47:GLY:H	1:A:206:SER:HB3	20	0.18
(2,133)	1:A:47:GLY:H	1:A:206:SER:HB2	20	0.18
(2,1035)	1:A:72:VAL:H	1:A:72:VAL:HG21	2	0.18
(2,1035)	1:A:72:VAL:H	1:A:72:VAL:HG22	2	0.18
(2,1035)	1:A:72:VAL:H	1:A:72:VAL:HG23	2	0.18
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	3	0.18
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	3	0.18
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	3	0.18
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	3	0.18
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	3	0.18
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	3	0.18
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	3	0.18
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	3	0.18
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	3	0.18
(2,958)	1:A:120:ILE:HD11	1:A:120:ILE:HG13	11	0.17
(2,958)	1:A:120:ILE:HD12	1:A:120:ILE:HG13	11	0.17
(2,958)	1:A:120:ILE:HD13	1:A:120:ILE:HG13	11	0.17
(2,958)	1:A:120:ILE:HD11	1:A:120:ILE:HG12	11	0.17
(2,958)	1:A:120:ILE:HD12	1:A:120:ILE:HG12	11	0.17
(2,958)	1:A:120:ILE:HD13	1:A:120:ILE:HG12	11	0.17
(2,948)	1:A:109:VAL:HG23	1:A:196:LEU:HD21	12	0.17
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG13	17	0.17
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG13	17	0.17
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG13	17	0.17
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG12	17	0.17
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG12	17	0.17
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG12	17	0.17
(2,867)	1:A:89:VAL:HG23	1:A:200:LEU:HD21	20	0.17
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD22	3	0.17
(2,864)	1:A:89:VAL:HG21	1:A:200:LEU:HD23	3	0.17
(2,815)	1:A:72:VAL:HG11	1:A:74:GLU:H	15	0.17
(2,815)	1:A:72:VAL:HG12	1:A:74:GLU:H	15	0.17
(2,815)	1:A:72:VAL:HG13	1:A:74:GLU:H	15	0.17
(2,79)	1:A:25:TYR:H	1:A:26:ASP:H	16	0.17
(2,740)	1:A:237:LEU:H	1:A:239:GLY:H	7	0.17
(2,739)	1:A:238:TYR:H	1:A:239:GLY:H	3	0.17
(2,734)	1:A:238:TYR:H	1:A:239:GLY:H	3	0.17
(2,729)	1:A:237:LEU:H	1:A:239:GLY:H	7	0.17
(2,649)	1:A:200:LEU:HD21	1:A:199:SER:H	6	0.17
(2,639)	1:A:198:HIS:H	1:A:202:MET:H	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,611)	1:A:108:LEU:HD21	1:A:188:PHE:H	15	0.17
(2,610)	1:A:188:PHE:H	1:A:191:ALA:H	13	0.17
(2,588)	1:A:179:THR:H	1:A:100:LEU:HD21	3	0.17
(2,500)	1:A:68:GLY:H	1:A:157:ALA:H	3	0.17
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD11	16	0.17
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD12	16	0.17
(2,469)	1:A:137:GLY:H	1:A:136:ILE:HD13	16	0.17
(2,465)	1:A:137:GLY:H	1:A:95:SER:H	2	0.17
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	18	0.17
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	1	0.17
(2,348)	1:A:189:LEU:HD22	1:A:112:ALA:H	4	0.17
(2,348)	1:A:189:LEU:HD23	1:A:112:ALA:H	4	0.17
(2,318)	1:A:104:THR:H	1:A:106:ASP:H	9	0.17
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	8	0.17
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	8	0.17
(2,287)	1:A:95:SER:H	1:A:137:GLY:H	2	0.17
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	7	0.17
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD22	19	0.17
(2,22)	1:A:10:LEU:H	1:A:10:LEU:HD23	19	0.17
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	19	0.17
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	19	0.17
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	19	0.17
(2,176)	1:A:59:ILE:H	1:A:59:ILE:HG13	9	0.17
(2,176)	1:A:59:ILE:H	1:A:59:ILE:HG12	9	0.17
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG21	17	0.17
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG22	17	0.17
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG23	17	0.17
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG11	17	0.17
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG12	17	0.17
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG13	17	0.17
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	19	0.17
(2,141)	1:A:50:ILE:H	1:A:50:ILE:HG12	11	0.17
(2,139)	1:A:48:LEU:HD22	1:A:47:GLY:H	18	0.17
(2,139)	1:A:48:LEU:HD23	1:A:47:GLY:H	18	0.17
(2,119)	1:A:189:LEU:H	1:A:189:LEU:HD21	10	0.17
(2,1027)	1:A:58:VAL:HG13	1:A:54:LEU:HD21	15	0.17
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG13	11	0.17
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG13	11	0.17
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG13	11	0.17
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG12	11	0.17
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG12	11	0.17
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG12	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	9	0.16
(3,7)	1:A:69:VAL:H	4:A:307:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:309:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:310:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:311:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:314:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:317:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:318:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:319:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:320:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:321:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:322:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:324:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:325:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:330:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:332:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:338:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:340:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:341:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:345:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:347:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:348:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:349:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:352:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:353:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:357:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:401:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:402:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:403:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:404:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:405:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:406:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:409:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:413:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:414:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:417:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:419:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:423:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:424:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:425:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:426:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:427:PX4:C35	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:A:69:VAL:H	4:A:428:PX4:C35	15	0.16
(3,7)	1:A:69:VAL:H	4:A:429:PX4:C35	15	0.16
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG13	1	0.16
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG13	1	0.16
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG13	1	0.16
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG12	1	0.16
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG12	1	0.16
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG12	1	0.16
(2,879)	1:A:127:VAL:HG11	1:A:91:TYR:H	10	0.16
(2,879)	1:A:127:VAL:HG12	1:A:91:TYR:H	10	0.16
(2,879)	1:A:127:VAL:HG13	1:A:91:TYR:H	10	0.16
(2,822)	1:A:89:VAL:HG11	1:A:122:LEU:HG	5	0.16
(2,822)	1:A:89:VAL:HG12	1:A:122:LEU:HG	5	0.16
(2,822)	1:A:89:VAL:HG13	1:A:122:LEU:HG	5	0.16
(2,772)	1:A:19:LEU:HD22	1:A:22:PHE:H	15	0.16
(2,772)	1:A:19:LEU:HD23	1:A:22:PHE:H	15	0.16
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	17	0.16
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	17	0.16
(2,579)	1:A:178:TRP:HE1	1:A:175:ASP:H	12	0.16
(2,550)	1:A:159:ALA:H	1:A:171:HIS:H	17	0.16
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG13	8	0.16
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG12	8	0.16
(2,545)	1:A:170:ALA:H	1:A:160:PHE:H	2	0.16
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	3	0.16
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD11	7	0.16
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD12	7	0.16
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD13	7	0.16
(2,427)	1:A:132:ALA:H	1:A:131:THR:H	17	0.16
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	14	0.16
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	8	0.16
(2,344)	1:A:109:VAL:H	1:A:112:ALA:H	11	0.16
(2,342)	1:A:189:LEU:HD22	1:A:111:LYS:H	5	0.16
(2,342)	1:A:189:LEU:HD23	1:A:111:LYS:H	5	0.16
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	9	0.16
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD11	19	0.16
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD12	19	0.16
(2,298)	1:A:237:LEU:H	1:A:120:ILE:HD13	19	0.16
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	5	0.16
(2,252)	1:A:89:VAL:H	1:A:123:HIS:H	17	0.16
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	2	0.16
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	14	0.16
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	14	0.16
(2,171)	1:A:55:ASN:H	1:A:58:VAL:H	15	0.16
(2,167)	1:A:59:ILE:H	1:A:57:ARG:H	17	0.16
(2,165)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	2	0.16
(2,161)	1:A:55:ASN:HD21	1:A:55:ASN:HD22	2	0.16
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG11	12	0.16
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG12	12	0.16
(2,158)	1:A:55:ASN:H	1:A:58:VAL:HG13	12	0.16
(2,151)	1:A:55:ASN:H	1:A:58:VAL:H	15	0.16
(2,123)	1:A:47:GLY:H	1:A:45:PHE:H	3	0.16
(2,1061)	1:A:127:VAL:H	4:A:307:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:309:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:310:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:311:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:314:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:317:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:318:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:319:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:320:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:321:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:322:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:324:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:325:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:330:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:332:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:338:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:340:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:341:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:345:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:347:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:348:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:349:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:352:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:353:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:357:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:401:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:402:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:403:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:404:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:405:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:406:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:409:PX4:C1	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:A:127:VAL:H	4:A:413:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:414:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:417:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:419:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:423:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:424:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:425:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:426:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:427:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:428:PX4:C1	2	0.16
(2,1061)	1:A:127:VAL:H	4:A:429:PX4:C1	2	0.16
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	3	0.15
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	3	0.15
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	3	0.15
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	3	0.15
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	3	0.15
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	3	0.15
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	18	0.15
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	18	0.15
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	18	0.15
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	18	0.15
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	18	0.15
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	18	0.15
(2,889)	1:A:103:ILE:HD11	1:A:103:ILE:HG13	8	0.15
(2,889)	1:A:103:ILE:HD12	1:A:103:ILE:HG13	8	0.15
(2,889)	1:A:103:ILE:HD13	1:A:103:ILE:HG13	8	0.15
(2,889)	1:A:103:ILE:HD11	1:A:103:ILE:HG12	8	0.15
(2,889)	1:A:103:ILE:HD12	1:A:103:ILE:HG12	8	0.15
(2,889)	1:A:103:ILE:HD13	1:A:103:ILE:HG12	8	0.15
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG13	4	0.15
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG13	4	0.15
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG13	4	0.15
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG12	4	0.15
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG12	4	0.15
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG12	4	0.15
(2,815)	1:A:72:VAL:HG11	1:A:74:GLU:H	17	0.15
(2,815)	1:A:72:VAL:HG12	1:A:74:GLU:H	17	0.15
(2,815)	1:A:72:VAL:HG13	1:A:74:GLU:H	17	0.15
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	12	0.15
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	12	0.15
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	12	0.15
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	12	0.15
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	12	0.15
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	13	0.15
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	13	0.15
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	13	0.15
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	13	0.15
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	13	0.15
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	13	0.15
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	17	0.15
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	17	0.15
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	17	0.15
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	17	0.15
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	17	0.15
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	17	0.15
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	19	0.15
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	19	0.15
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	19	0.15
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	19	0.15
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	19	0.15
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	19	0.15
(2,784)	1:A:58:VAL:H	1:A:58:VAL:HG21	16	0.15
(2,784)	1:A:58:VAL:H	1:A:58:VAL:HG22	16	0.15
(2,784)	1:A:58:VAL:H	1:A:58:VAL:HG23	16	0.15
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	6	0.15
(2,728)	1:A:236:LYS:H	1:A:237:LEU:H	11	0.15
(2,728)	1:A:236:LYS:H	1:A:237:LEU:H	11	0.15
(2,706)	1:A:231:ILE:H	1:A:231:ILE:HG13	3	0.15
(2,706)	1:A:231:ILE:H	1:A:231:ILE:HG12	3	0.15
(2,681)	1:A:212:MET:H	1:A:227:SER:H	4	0.15
(2,610)	1:A:188:PHE:H	1:A:191:ALA:H	8	0.15
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD11	2	0.15
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD12	2	0.15
(2,6)	1:A:107:ARG:H	1:A:103:ILE:HD13	2	0.15
(2,534)	1:A:135:MET:H	1:A:169:ASP:H	7	0.15
(2,526)	1:A:160:PHE:H	1:A:168:GLY:H	14	0.15
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB3	18	0.15
(2,513)	1:A:160:PHE:H	1:A:199:SER:HB2	18	0.15
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	4	0.15
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	14	0.15
(2,481)	1:A:140:ARG:H	1:A:139:ALA:H	9	0.15
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	1	0.15
(2,448)	1:A:135:MET:H	1:A:169:ASP:H	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	14	0.15
(2,428)	1:A:132:ALA:H	1:A:133:ASP:H	18	0.15
(2,42)	1:A:16:GLN:H	1:A:18:TYR:H	7	0.15
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	16	0.15
(2,348)	1:A:189:LEU:HD22	1:A:112:ALA:H	17	0.15
(2,348)	1:A:189:LEU:HD23	1:A:112:ALA:H	17	0.15
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	12	0.15
(2,315)	1:A:106:ASP:H	1:A:108:LEU:H	20	0.15
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	11	0.15
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	11	0.15
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	10	0.15
(2,285)	1:A:94:VAL:H	1:A:94:VAL:HG21	14	0.15
(2,285)	1:A:94:VAL:H	1:A:94:VAL:HG22	14	0.15
(2,285)	1:A:94:VAL:H	1:A:94:VAL:HG23	14	0.15
(2,285)	1:A:94:VAL:H	1:A:94:VAL:HG11	14	0.15
(2,285)	1:A:94:VAL:H	1:A:94:VAL:HG12	14	0.15
(2,285)	1:A:94:VAL:H	1:A:94:VAL:HG13	14	0.15
(2,226)	1:A:75:TYR:H	1:A:73:ALA:HA	14	0.15
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	15	0.15
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	15	0.15
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	14	0.15
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	14	0.15
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	14	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG21	10	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG22	10	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG23	10	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG11	10	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG12	10	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG13	10	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG21	16	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG22	16	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG23	16	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG11	16	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG12	16	0.15
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG13	16	0.15
(2,108)	1:A:43:GLN:H	1:A:46:PHE:H	6	0.15
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG13	15	0.15
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG13	15	0.15
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG13	15	0.15
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG12	15	0.15
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG12	15	0.15
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG12	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	2	0.14
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	2	0.14
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	2	0.14
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	2	0.14
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	2	0.14
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	2	0.14
(2,958)	1:A:120:ILE:HD11	1:A:120:ILE:HG13	13	0.14
(2,958)	1:A:120:ILE:HD12	1:A:120:ILE:HG13	13	0.14
(2,958)	1:A:120:ILE:HD13	1:A:120:ILE:HG13	13	0.14
(2,958)	1:A:120:ILE:HD11	1:A:120:ILE:HG12	13	0.14
(2,958)	1:A:120:ILE:HD12	1:A:120:ILE:HG12	13	0.14
(2,958)	1:A:120:ILE:HD13	1:A:120:ILE:HG12	13	0.14
(2,958)	1:A:120:ILE:HD11	1:A:120:ILE:HG13	19	0.14
(2,958)	1:A:120:ILE:HD12	1:A:120:ILE:HG13	19	0.14
(2,958)	1:A:120:ILE:HD13	1:A:120:ILE:HG13	19	0.14
(2,958)	1:A:120:ILE:HD11	1:A:120:ILE:HG12	19	0.14
(2,958)	1:A:120:ILE:HD12	1:A:120:ILE:HG12	19	0.14
(2,958)	1:A:120:ILE:HD13	1:A:120:ILE:HG12	19	0.14
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD22	5	0.14
(2,939)	1:A:196:LEU:HD21	1:A:200:LEU:HD23	5	0.14
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	15	0.14
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	15	0.14
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD11	1	0.14
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD12	1	0.14
(2,823)	1:A:89:VAL:HG11	1:A:136:ILE:HD13	1	0.14
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD11	1	0.14
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD12	1	0.14
(2,823)	1:A:89:VAL:HG12	1:A:136:ILE:HD13	1	0.14
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD11	1	0.14
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD12	1	0.14
(2,823)	1:A:89:VAL:HG13	1:A:136:ILE:HD13	1	0.14
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	1	0.14
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	1	0.14
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	1	0.14
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	1	0.14
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	1	0.14
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	1	0.14
(2,79)	1:A:25:TYR:H	1:A:26:ASP:H	17	0.14
(2,784)	1:A:58:VAL:H	1:A:58:VAL:HG21	18	0.14
(2,784)	1:A:58:VAL:H	1:A:58:VAL:HG22	18	0.14
(2,784)	1:A:58:VAL:H	1:A:58:VAL:HG23	18	0.14
(2,764)	1:A:19:LEU:HD22	1:A:40:LYS:H	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,764)	1:A:19:LEU:HD23	1:A:40:LYS:H	12	0.14
(2,754)	1:A:19:LEU:H	1:A:22:PHE:H	13	0.14
(2,650)	1:A:200:LEU:HD22	1:A:199:SER:H	10	0.14
(2,650)	1:A:200:LEU:HD23	1:A:199:SER:H	10	0.14
(2,636)	1:A:198:HIS:H	1:A:195:ALA:H	6	0.14
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	5	0.14
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD22	14	0.14
(2,541)	1:A:169:ASP:H	1:A:166:LEU:HD23	14	0.14
(2,526)	1:A:160:PHE:H	1:A:168:GLY:H	11	0.14
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	4	0.14
(2,505)	1:A:69:VAL:H	1:A:159:ALA:H	18	0.14
(2,455)	1:A:136:ILE:H	1:A:137:GLY:H	11	0.14
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	13	0.14
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	13	0.14
(2,292)	1:A:100:LEU:H	1:A:99:ASP:H	2	0.14
(2,292)	1:A:100:LEU:H	1:A:99:ASP:H	2	0.14
(2,279)	1:A:136:ILE:H	1:A:93:ILE:H	13	0.14
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	8	0.14
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	8	0.14
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG21	18	0.14
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG22	18	0.14
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG23	18	0.14
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG11	18	0.14
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG12	18	0.14
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG13	18	0.14
(2,129)	1:A:46:PHE:H	1:A:47:GLY:H	20	0.14
(2,129)	1:A:46:PHE:H	1:A:47:GLY:H	20	0.14
(2,123)	1:A:47:GLY:H	1:A:45:PHE:H	15	0.14
(2,119)	1:A:189:LEU:H	1:A:189:LEU:HD21	9	0.14
(2,117)	1:A:44:LYS:H	1:A:47:GLY:H	14	0.14
(2,108)	1:A:43:GLN:H	1:A:46:PHE:H	14	0.14
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG13	16	0.14
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG13	16	0.14
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG13	16	0.14
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG12	16	0.14
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG12	16	0.14
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG12	16	0.14
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG13	19	0.14
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG13	19	0.14
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG13	19	0.14
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG12	19	0.14
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG12	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG12	19	0.14
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	13	0.14
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	13	0.14
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	13	0.14
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	13	0.14
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	13	0.14
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	13	0.14
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	13	0.14
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	13	0.14
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	13	0.14
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD22	7	0.13
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD23	7	0.13
(2,987)	1:A:186:ILE:HD11	1:A:156:LEU:HD11	1	0.13
(2,987)	1:A:186:ILE:HD11	1:A:156:LEU:HD12	1	0.13
(2,987)	1:A:186:ILE:HD11	1:A:156:LEU:HD13	1	0.13
(2,987)	1:A:186:ILE:HD12	1:A:156:LEU:HD11	1	0.13
(2,987)	1:A:186:ILE:HD12	1:A:156:LEU:HD12	1	0.13
(2,987)	1:A:186:ILE:HD12	1:A:156:LEU:HD13	1	0.13
(2,987)	1:A:186:ILE:HD13	1:A:156:LEU:HD11	1	0.13
(2,987)	1:A:186:ILE:HD13	1:A:156:LEU:HD12	1	0.13
(2,987)	1:A:186:ILE:HD13	1:A:156:LEU:HD13	1	0.13
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	1	0.13
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	1	0.13
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	1	0.13
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	1	0.13
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	1	0.13
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	1	0.13
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD22	8	0.13
(2,947)	1:A:109:VAL:HG22	1:A:196:LEU:HD23	8	0.13
(2,91)	1:A:37:ALA:H	1:A:36:GLU:H	6	0.13
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG13	2	0.13
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG13	2	0.13
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG13	2	0.13
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG12	2	0.13
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG12	2	0.13
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG12	2	0.13
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG13	15	0.13
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG13	15	0.13
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG13	15	0.13
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG12	15	0.13
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG12	15	0.13
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG12	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	2	0.13
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	2	0.13
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	2	0.13
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	2	0.13
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	2	0.13
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	2	0.13
(2,79)	1:A:25:TYR:H	1:A:26:ASP:H	11	0.13
(2,788)	1:A:58:VAL:HG21	1:A:55:ASN:H	13	0.13
(2,788)	1:A:58:VAL:HG22	1:A:55:ASN:H	13	0.13
(2,788)	1:A:58:VAL:HG23	1:A:55:ASN:H	13	0.13
(2,745)	1:A:107:ARG:H	1:A:108:LEU:HD21	2	0.13
(2,740)	1:A:237:LEU:H	1:A:239:GLY:H	13	0.13
(2,729)	1:A:237:LEU:H	1:A:239:GLY:H	13	0.13
(2,718)	1:A:233:GLY:H	1:A:233:GLY:HA3	13	0.13
(2,718)	1:A:233:GLY:H	1:A:233:GLY:HA2	13	0.13
(2,676)	1:A:210:ALA:H	1:A:213:TYR:H	6	0.13
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	2	0.13
(2,632)	1:A:197:GLY:H	1:A:196:LEU:HD21	14	0.13
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG21	7	0.13
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG22	7	0.13
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG23	7	0.13
(2,544)	1:A:136:ILE:H	1:A:170:ALA:H	7	0.13
(2,526)	1:A:160:PHE:H	1:A:168:GLY:H	9	0.13
(2,456)	1:A:136:ILE:H	1:A:92:ARG:H	12	0.13
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	1	0.13
(2,413)	1:A:125:ARG:H	1:A:91:TYR:H	10	0.13
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD22	3	0.13
(2,403)	1:A:122:LEU:H	1:A:200:LEU:HD23	3	0.13
(2,339)	1:A:111:LYS:H	1:A:111:LYS:HB3	9	0.13
(2,339)	1:A:111:LYS:H	1:A:111:LYS:HB2	9	0.13
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	9	0.13
(2,3)	1:A:128:VAL:H	1:A:129:TRP:H	9	0.13
(2,272)	1:A:135:MET:H	1:A:92:ARG:H	4	0.13
(2,269)	1:A:136:ILE:H	1:A:92:ARG:H	12	0.13
(2,230)	1:A:86:SER:H	1:A:85:THR:H	7	0.13
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG21	13	0.13
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG22	13	0.13
(2,156)	1:A:55:ASN:H	1:A:58:VAL:HG23	13	0.13
(2,137)	1:A:48:LEU:HD11	1:A:48:LEU:H	18	0.13
(2,137)	1:A:48:LEU:HD12	1:A:48:LEU:H	18	0.13
(2,137)	1:A:48:LEU:HD13	1:A:48:LEU:H	18	0.13
(2,13)	1:A:126:LYS:H	1:A:91:TYR:HE1	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:A:126:LYS:H	1:A:91:TYR:HE2	5	0.13
(2,129)	1:A:46:PHE:H	1:A:47:GLY:H	13	0.13
(2,129)	1:A:46:PHE:H	1:A:47:GLY:H	13	0.13
(2,103)	1:A:41:GLU:H	1:A:43:GLN:H	9	0.13
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG13	14	0.13
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG13	14	0.13
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG13	14	0.13
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG12	14	0.13
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG12	14	0.13
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG12	14	0.13
(2,1012)	1:A:226:LEU:HD21	1:A:211:VAL:HG21	18	0.13
(2,1012)	1:A:226:LEU:HD21	1:A:211:VAL:HG22	18	0.13
(2,1012)	1:A:226:LEU:HD21	1:A:211:VAL:HG23	18	0.13
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	7	0.12
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	7	0.12
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	7	0.12
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	7	0.12
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	7	0.12
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	7	0.12
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	10	0.12
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	10	0.12
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	10	0.12
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	10	0.12
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	10	0.12
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	10	0.12
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	20	0.12
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	20	0.12
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	20	0.12
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	20	0.12
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	20	0.12
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	20	0.12
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	12	0.12
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	14	0.12
(2,889)	1:A:103:ILE:HD11	1:A:103:ILE:HG13	17	0.12
(2,889)	1:A:103:ILE:HD12	1:A:103:ILE:HG13	17	0.12
(2,889)	1:A:103:ILE:HD13	1:A:103:ILE:HG13	17	0.12
(2,889)	1:A:103:ILE:HD11	1:A:103:ILE:HG12	17	0.12
(2,889)	1:A:103:ILE:HD12	1:A:103:ILE:HG12	17	0.12
(2,889)	1:A:103:ILE:HD13	1:A:103:ILE:HG12	17	0.12
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	5	0.12
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	5	0.12
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	5	0.12
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	5	0.12
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	5	0.12
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	11	0.12
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	11	0.12
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	11	0.12
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	11	0.12
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	11	0.12
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	11	0.12
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	2	0.12
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	2	0.12
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD22	14	0.12
(2,746)	1:A:107:ARG:H	1:A:108:LEU:HD23	14	0.12
(2,676)	1:A:210:ALA:H	1:A:213:TYR:H	1	0.12
(2,658)	1:A:200:LEU:HD21	1:A:201:GLY:H	19	0.12
(2,636)	1:A:198:HIS:H	1:A:195:ALA:H	20	0.12
(2,612)	1:A:108:LEU:HD22	1:A:188:PHE:H	4	0.12
(2,612)	1:A:108:LEU:HD23	1:A:188:PHE:H	4	0.12
(2,610)	1:A:188:PHE:H	1:A:191:ALA:H	9	0.12
(2,610)	1:A:188:PHE:H	1:A:191:ALA:H	10	0.12
(2,602)	1:A:186:ILE:H	1:A:186:ILE:HG13	4	0.12
(2,602)	1:A:186:ILE:H	1:A:186:ILE:HG12	4	0.12
(2,580)	1:A:178:TRP:HE1	1:A:176:GLU:H	16	0.12
(2,568)	1:A:178:TRP:HE1	1:A:176:GLU:H	16	0.12
(2,550)	1:A:159:ALA:H	1:A:171:HIS:H	2	0.12
(2,550)	1:A:159:ALA:H	1:A:171:HIS:H	8	0.12
(2,542)	1:A:170:ALA:H	1:A:137:GLY:H	16	0.12
(2,449)	1:A:135:MET:H	1:A:170:ALA:H	9	0.12
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	10	0.12
(2,245)	1:A:88:VAL:H	1:A:123:HIS:H	9	0.12
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	12	0.12
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	12	0.12
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	12	0.12
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	5	0.12
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	5	0.12
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	5	0.12
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG11	15	0.12
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG12	15	0.12
(2,196)	1:A:194:HIS:H	1:A:211:VAL:HG13	15	0.12
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG21	2	0.12
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG22	2	0.12
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG23	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG11	2	0.12
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG12	2	0.12
(2,172)	1:A:58:VAL:H	1:A:58:VAL:HG13	2	0.12
(2,103)	1:A:41:GLU:H	1:A:43:GLN:H	3	0.12
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG13	2	0.12
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG13	2	0.12
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG13	2	0.12
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG12	2	0.12
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG12	2	0.12
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG12	2	0.12
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD22	4	0.11
(2,993)	1:A:186:ILE:HD13	1:A:156:LEU:HD23	4	0.11
(2,992)	1:A:186:ILE:HD13	1:A:156:LEU:HD21	12	0.11
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	12	0.11
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	12	0.11
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	12	0.11
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	12	0.11
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	12	0.11
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	12	0.11
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	14	0.11
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	14	0.11
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	14	0.11
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	14	0.11
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	14	0.11
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	14	0.11
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG13	15	0.11
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG13	15	0.11
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG13	15	0.11
(2,986)	1:A:186:ILE:HD11	1:A:186:ILE:HG12	15	0.11
(2,986)	1:A:186:ILE:HD12	1:A:186:ILE:HG12	15	0.11
(2,986)	1:A:186:ILE:HD13	1:A:186:ILE:HG12	15	0.11
(2,983)	1:A:69:VAL:HG11	1:A:159:ALA:HB1	19	0.11
(2,983)	1:A:69:VAL:HG11	1:A:159:ALA:HB2	19	0.11
(2,983)	1:A:69:VAL:HG11	1:A:159:ALA:HB3	19	0.11
(2,983)	1:A:69:VAL:HG12	1:A:159:ALA:HB1	19	0.11
(2,983)	1:A:69:VAL:HG12	1:A:159:ALA:HB2	19	0.11
(2,983)	1:A:69:VAL:HG12	1:A:159:ALA:HB3	19	0.11
(2,983)	1:A:69:VAL:HG13	1:A:159:ALA:HB1	19	0.11
(2,983)	1:A:69:VAL:HG13	1:A:159:ALA:HB2	19	0.11
(2,983)	1:A:69:VAL:HG13	1:A:159:ALA:HB3	19	0.11
(2,958)	1:A:120:ILE:HD11	1:A:120:ILE:HG13	20	0.11
(2,958)	1:A:120:ILE:HD12	1:A:120:ILE:HG13	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,958)	1:A:120:ILE:HD13	1:A:120:ILE:HG13	20	0.11
(2,958)	1:A:120:ILE:HD11	1:A:120:ILE:HG12	20	0.11
(2,958)	1:A:120:ILE:HD12	1:A:120:ILE:HG12	20	0.11
(2,958)	1:A:120:ILE:HD13	1:A:120:ILE:HG12	20	0.11
(2,93)	1:A:37:ALA:H	1:A:39:LEU:H	5	0.11
(2,891)	1:A:105:VAL:HG21	1:A:105:VAL:H	3	0.11
(2,891)	1:A:105:VAL:HG22	1:A:105:VAL:H	3	0.11
(2,891)	1:A:105:VAL:HG23	1:A:105:VAL:H	3	0.11
(2,889)	1:A:103:ILE:HD11	1:A:103:ILE:HG13	10	0.11
(2,889)	1:A:103:ILE:HD12	1:A:103:ILE:HG13	10	0.11
(2,889)	1:A:103:ILE:HD13	1:A:103:ILE:HG13	10	0.11
(2,889)	1:A:103:ILE:HD11	1:A:103:ILE:HG12	10	0.11
(2,889)	1:A:103:ILE:HD12	1:A:103:ILE:HG12	10	0.11
(2,889)	1:A:103:ILE:HD13	1:A:103:ILE:HG12	10	0.11
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG13	3	0.11
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG13	3	0.11
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG13	3	0.11
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG12	3	0.11
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG12	3	0.11
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG12	3	0.11
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG13	6	0.11
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG13	6	0.11
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG13	6	0.11
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG12	6	0.11
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG12	6	0.11
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG12	6	0.11
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG13	7	0.11
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG13	7	0.11
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG13	7	0.11
(2,884)	1:A:93:ILE:HD11	1:A:93:ILE:HG12	7	0.11
(2,884)	1:A:93:ILE:HD12	1:A:93:ILE:HG12	7	0.11
(2,884)	1:A:93:ILE:HD13	1:A:93:ILE:HG12	7	0.11
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD22	3	0.11
(2,868)	1:A:89:VAL:HG23	1:A:200:LEU:HD23	3	0.11
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD22	20	0.11
(2,866)	1:A:89:VAL:HG22	1:A:200:LEU:HD23	20	0.11
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	17	0.11
(2,848)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	17	0.11
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD22	17	0.11
(2,829)	1:A:89:VAL:HG13	1:A:200:LEU:HD23	17	0.11
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	6	0.11
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	6	0.11
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	6	0.11
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	6	0.11
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	6	0.11
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	7	0.11
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	7	0.11
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	7	0.11
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	7	0.11
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	7	0.11
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	7	0.11
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG13	14	0.11
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG13	14	0.11
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG13	14	0.11
(2,793)	1:A:59:ILE:HD11	1:A:59:ILE:HG12	14	0.11
(2,793)	1:A:59:ILE:HD12	1:A:59:ILE:HG12	14	0.11
(2,793)	1:A:59:ILE:HD13	1:A:59:ILE:HG12	14	0.11
(2,787)	1:A:58:VAL:HG21	1:A:43:GLN:HE21	14	0.11
(2,787)	1:A:58:VAL:HG22	1:A:43:GLN:HE21	14	0.11
(2,787)	1:A:58:VAL:HG23	1:A:43:GLN:HE21	14	0.11
(2,706)	1:A:231:ILE:H	1:A:231:ILE:HG13	11	0.11
(2,706)	1:A:231:ILE:H	1:A:231:ILE:HG12	11	0.11
(2,645)	1:A:199:SER:H	1:A:202:MET:H	20	0.11
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD22	13	0.11
(2,605)	1:A:186:ILE:H	1:A:156:LEU:HD23	13	0.11
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG21	2	0.11
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG22	2	0.11
(2,597)	1:A:185:GLY:H	1:A:179:THR:HG23	2	0.11
(2,580)	1:A:178:TRP:HE1	1:A:176:GLU:H	2	0.11
(2,568)	1:A:178:TRP:HE1	1:A:176:GLU:H	2	0.11
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG13	15	0.11
(2,549)	1:A:170:ALA:H	1:A:136:ILE:HG12	15	0.11
(2,526)	1:A:160:PHE:H	1:A:168:GLY:H	17	0.11
(2,51)	1:A:183:SER:H	1:A:185:GLY:H	9	0.11
(2,483)	1:A:139:ALA:HB1	1:A:140:ARG:H	17	0.11
(2,483)	1:A:139:ALA:HB2	1:A:140:ARG:H	17	0.11
(2,483)	1:A:139:ALA:HB3	1:A:140:ARG:H	17	0.11
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD11	3	0.11
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD12	3	0.11
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD13	3	0.11
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD11	6	0.11
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD12	6	0.11
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD13	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD11	12	0.11
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD12	12	0.11
(2,443)	1:A:134:ILE:H	1:A:136:ILE:HD13	12	0.11
(2,42)	1:A:16:GLN:H	1:A:18:TYR:H	9	0.11
(2,406)	1:A:123:HIS:H	1:A:122:LEU:HD21	20	0.11
(2,337)	1:A:111:LYS:H	1:A:109:VAL:H	8	0.11
(2,313)	1:A:105:VAL:HG21	1:A:105:VAL:H	3	0.11
(2,313)	1:A:105:VAL:HG22	1:A:105:VAL:H	3	0.11
(2,313)	1:A:105:VAL:HG23	1:A:105:VAL:H	3	0.11
(2,293)	1:A:98:ARG:H	1:A:100:LEU:H	8	0.11
(2,279)	1:A:136:ILE:H	1:A:93:ILE:H	17	0.11
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG13	13	0.11
(2,276)	1:A:92:ARG:H	1:A:93:ILE:HG12	13	0.11
(2,246)	1:A:88:VAL:H	1:A:86:SER:H	14	0.11
(2,230)	1:A:86:SER:H	1:A:85:THR:H	16	0.11
(2,214)	1:A:72:VAL:H	1:A:71:ASP:H	14	0.11
(2,212)	1:A:68:GLY:H	1:A:69:VAL:H	18	0.11
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG21	14	0.11
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG22	14	0.11
(2,210)	1:A:68:GLY:H	1:A:155:THR:HG23	14	0.11
(2,208)	1:A:68:GLY:H	1:A:69:VAL:H	18	0.11
(2,159)	1:A:55:ASN:H	1:A:54:LEU:HD21	7	0.11
(2,153)	1:A:55:ASN:H	1:A:55:ASN:HD21	4	0.11
(2,152)	1:A:55:ASN:H	1:A:56:SER:H	1	0.11
(2,135)	1:A:46:PHE:H	1:A:48:LEU:H	19	0.11
(2,123)	1:A:47:GLY:H	1:A:45:PHE:H	5	0.11
(2,108)	1:A:43:GLN:H	1:A:46:PHE:H	8	0.11
(2,1030)	1:A:54:LEU:HD22	1:A:39:LEU:HD11	10	0.11
(2,1030)	1:A:54:LEU:HD22	1:A:39:LEU:HD12	10	0.11
(2,1030)	1:A:54:LEU:HD22	1:A:39:LEU:HD13	10	0.11
(2,1030)	1:A:54:LEU:HD23	1:A:39:LEU:HD11	10	0.11
(2,1030)	1:A:54:LEU:HD23	1:A:39:LEU:HD12	10	0.11
(2,1030)	1:A:54:LEU:HD23	1:A:39:LEU:HD13	10	0.11
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG13	1	0.11
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG13	1	0.11
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG13	1	0.11
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG12	1	0.11
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG12	1	0.11
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG12	1	0.11
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG13	6	0.11
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG13	6	0.11
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG13	6	0.11

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<b>Key</b>	<b>Atom-1</b>	<b>Atom-2</b>	<b>Model ID</b>	<b>Violation (Å)</b>
(2,1019)	1:A:234:ILE:HD11	1:A:234:ILE:HG12	6	0.11
(2,1019)	1:A:234:ILE:HD12	1:A:234:ILE:HG12	6	0.11
(2,1019)	1:A:234:ILE:HD13	1:A:234:ILE:HG12	6	0.11
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG21	16	0.11
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG22	16	0.11
(2,1018)	1:A:231:ILE:HD11	1:A:234:ILE:HG23	16	0.11
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG21	16	0.11
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG22	16	0.11
(2,1018)	1:A:231:ILE:HD12	1:A:234:ILE:HG23	16	0.11
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG21	16	0.11
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG22	16	0.11
(2,1018)	1:A:231:ILE:HD13	1:A:234:ILE:HG23	16	0.11

## 10 Dihedral-angle violation analysis

No dihedral-angle restraints found