Full wwPDB EM Validation Report ⓘ

Oct 8, 2024 – 10:23 AM EDT

PDB ID	:	4V7Q
EMDB ID	:	EMD-5199
Title	:	Atomic model of an infectious rotavirus particle
Authors	:	Settembre, E.C.; Chen, J.Z.; Dormitzer, P.R.; Grigorieff, N.; Harrison, S.C.
Deposited on	:	2010-05-13
Resolution	:	3.80 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
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.

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

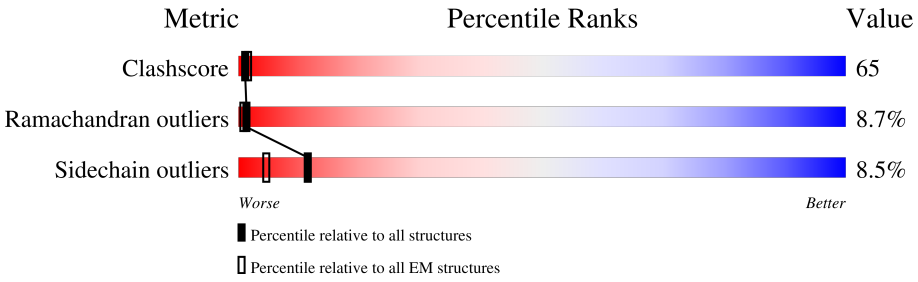
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 Å.

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)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. 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 <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	800	12% 18% 57% 20%
1	AB	800	12% 20% 57% 22%
2	AC	397	8% 56% 37% 7%
2	AD	397	10% 57% 36% 7%
2	AE	397	8% 56% 37% 7%
2	AF	397	11% 59% 34% 6%
2	AG	397	14% 57% 36% 7%
2	AH	397	8% 54% 39% 7%

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Mol	Chain	Length	Quality of chain
2	AI	397	15% 55% 37% 7% •
2	AJ	397	12% 57% 35% 7%
2	AK	397	9% 57% 35% 8% •
2	AL	397	9% 57% 36% 7% •
2	AM	397	7% 57% 36% 7% •
2	AN	397	10% 57% 35% 7% •
2	AO	397	9% 61% 32% 7%
3	BA	276	9% 35% 43% 13% • 8%
3	BF	276	5% 30% 49% 13% • 5%
3	BG	276	10% 30% 52% 14% • •
3	BH	276	6% 30% 47% 12% • 8%
3	BI	276	9% 28% 52% 16% • •
3	BJ	276	19% 28% 54% 15% • •
3	BK	276	12% 29% 53% 14% • •
3	BL	276	14% 28% 54% 14% • •
3	BM	276	9% 28% 50% 13% • 8%
3	BN	276	9% 27% 54% 16% •
3	BO	276	8% 28% 52% 17% • •
3	BP	276	8% 29% 52% 15% • •
3	BQ	276	6% 29% 49% 12% • 8%
4	BX	776	67% 42% 36% 15% • 5%
4	BY	776	67% 41% 39% 14% • 5%
4	BZ	776	33% 23% 30% 13% • 33%
5	A	2	100% 50% 50%
5	B	2	50% 50% 50%

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Mol	Chain	Length	Quality of chain
5	C	2	100% 50% 50%
5	D	2	100% 50% 50%
5	E	2	100% 50% 50%
5	F	2	50% 50% 50%
5	G	2	100% 100%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	NAG	G	1	X	-	-	-

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 97287 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Core scaffold protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AA	781	Total	C	N	O	S	0	0
			6379	4052	1101	1190	36		
1	AB	800	Total	C	N	O	S	0	0
			6545	4159	1127	1223	36		

- Molecule 2 is a protein called Intermediate capsid protein VP6.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AC	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AD	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AE	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AF	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AG	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AH	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AI	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AJ	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AK	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AL	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AM	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AN	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		
2	AO	397	Total	C	N	O	S	0	0
			3163	2004	551	593	15		

- Molecule 3 is a protein called Outer layer protein VP7.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	BA	255	Total	C	N	O	S	0	0
			2011	1277	314	404	16		
3	BF	263	Total	C	N	O	S	0	0
			2072	1311	329	416	16		
3	BG	273	Total	C	N	O	S	0	0
			2160	1372	341	431	16		
3	BH	255	Total	C	N	O	S	0	0
			2011	1277	314	404	16		
3	BI	273	Total	C	N	O	S	0	0
			2160	1372	341	431	16		
3	BJ	274	Total	C	N	O	S	0	0
			2171	1378	345	432	16		
3	BK	269	Total	C	N	O	S	0	0
			2117	1341	336	424	16		
3	BL	272	Total	C	N	O	S	0	0
			2148	1363	340	429	16		
3	BM	255	Total	C	N	O	S	0	0
			2011	1277	314	404	16		
3	BN	275	Total	C	N	O	S	0	0
			2179	1384	346	433	16		
3	BO	274	Total	C	N	O	S	0	0
			2171	1378	345	432	16		
3	BP	273	Total	C	N	O	S	0	0
			2157	1368	342	431	16		
3	BQ	255	Total	C	N	O	S	0	0
			2011	1277	314	404	16		

- Molecule 4 is a protein called Outer capsid protein VP4.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	BX	735	Total	C	N	O	S	0	0
			5783	3643	967	1152	21		
4	BY	738	Total	C	N	O	S	0	0
			5809	3660	972	1156	21		
4	BZ	517	Total	C	N	O	S	0	0
			4058	2551	689	802	16		

There are 15 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BX	37	LEU	PRO	conflict	UNP C3RX20
BX	180	GLU	LYS	conflict	UNP C3RX20

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Chain	Residue	Modelled	Actual	Comment	Reference
BX	187	LYS	ARG	conflict	UNP C3RX20
BX	267	TYR	CYS	conflict	UNP C3RX20
BX	379	ILE	THR	conflict	UNP C3RX20
BY	37	LEU	PRO	conflict	UNP C3RX20
BY	180	GLU	LYS	conflict	UNP C3RX20
BY	187	LYS	ARG	conflict	UNP C3RX20
BY	267	TYR	CYS	conflict	UNP C3RX20
BY	379	ILE	THR	conflict	UNP C3RX20
BZ	37	LEU	PRO	conflict	UNP C3RX20
BZ	180	GLU	LYS	conflict	UNP C3RX20
BZ	187	LYS	ARG	conflict	UNP C3RX20
BZ	267	TYR	CYS	conflict	UNP C3RX20
BZ	379	ILE	THR	conflict	UNP C3RX20

- Molecule 5 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	A	2	Total	C	N	O	0	0
			28	16	2	10		
5	B	2	Total	C	N	O	0	0
			28	16	2	10		
5	C	2	Total	C	N	O	0	0
			28	16	2	10		
5	D	2	Total	C	N	O	0	0
			28	16	2	10		
5	E	2	Total	C	N	O	0	0
			28	16	2	10		
5	F	2	Total	C	N	O	0	0
			28	16	2	10		
5	G	2	Total	C	N	O	0	0
			28	16	2	10		

- Molecule 6 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
6	AC	1	Total	Zn	0
			1	1	

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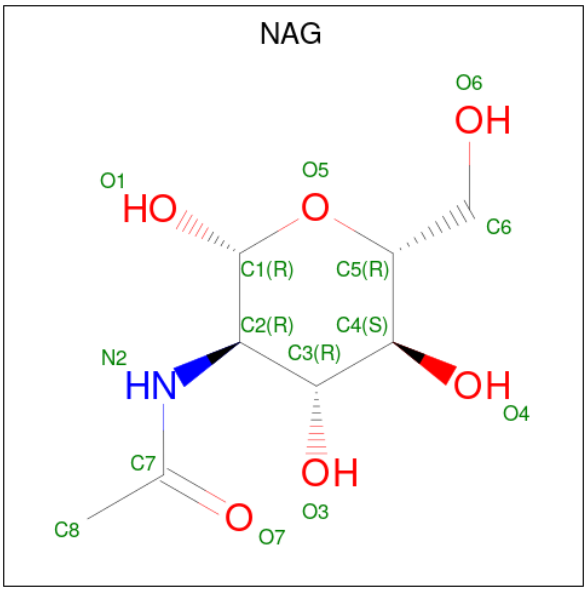
Mol	Chain	Residues	Atoms	AltConf
6	AF	1	Total Zn 1 1	0
6	AK	1	Total Zn 1 1	0
6	AN	1	Total Zn 1 1	0
6	AO	1	Total Zn 1 1	0

- Molecule 7 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: $C_8H_{15}NO_6$).



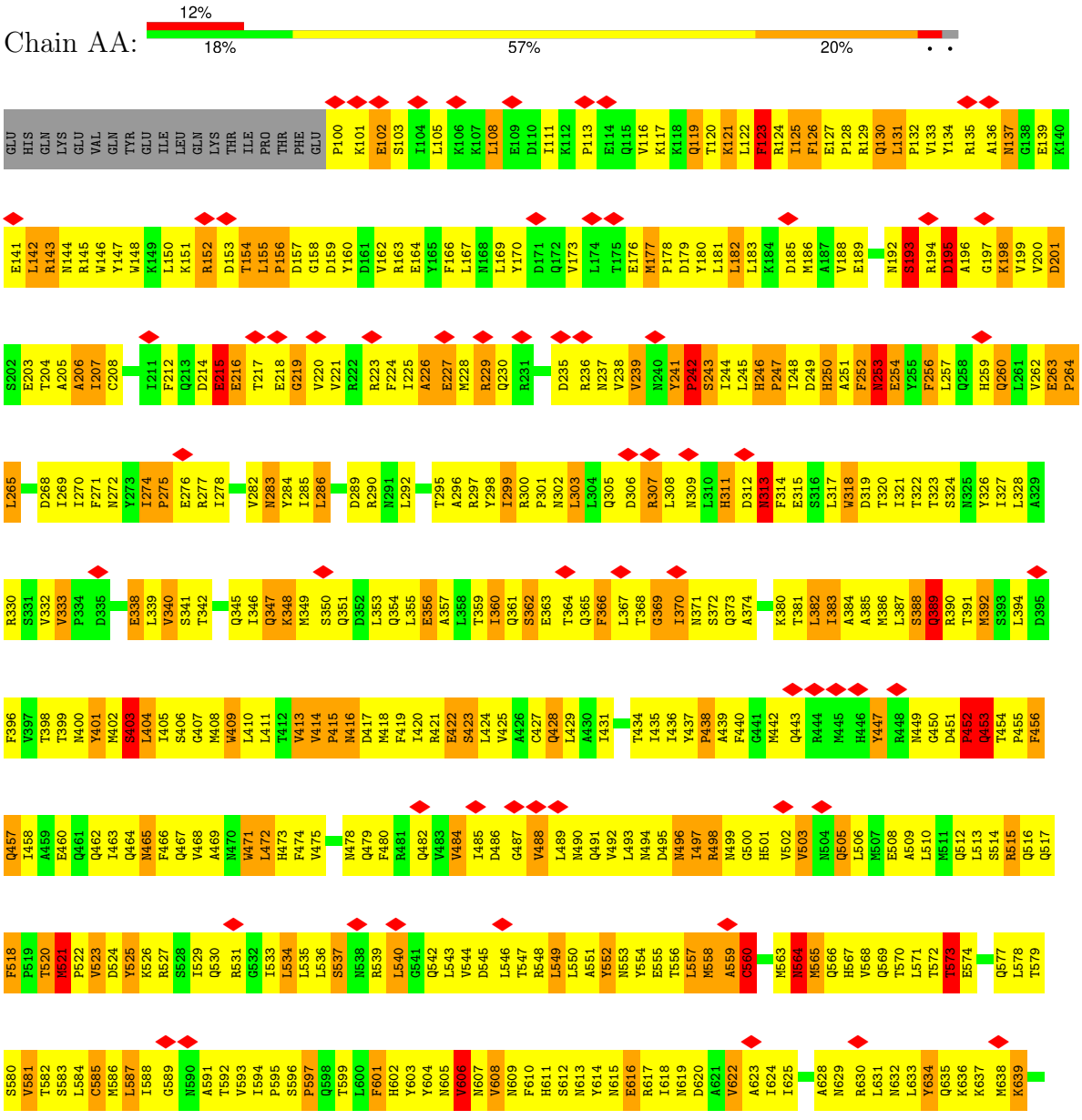
Mol	Chain	Residues	Atoms	AltConf
7	BM	1	Total C N O 14 8 1 5	0

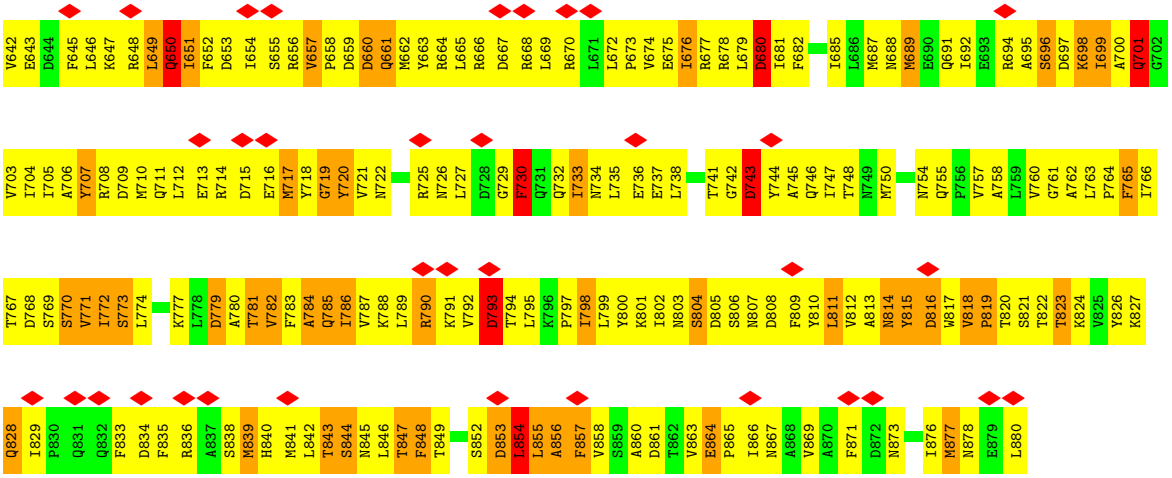
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-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. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Core scaffold protein

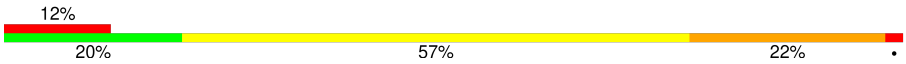
Chain AA:

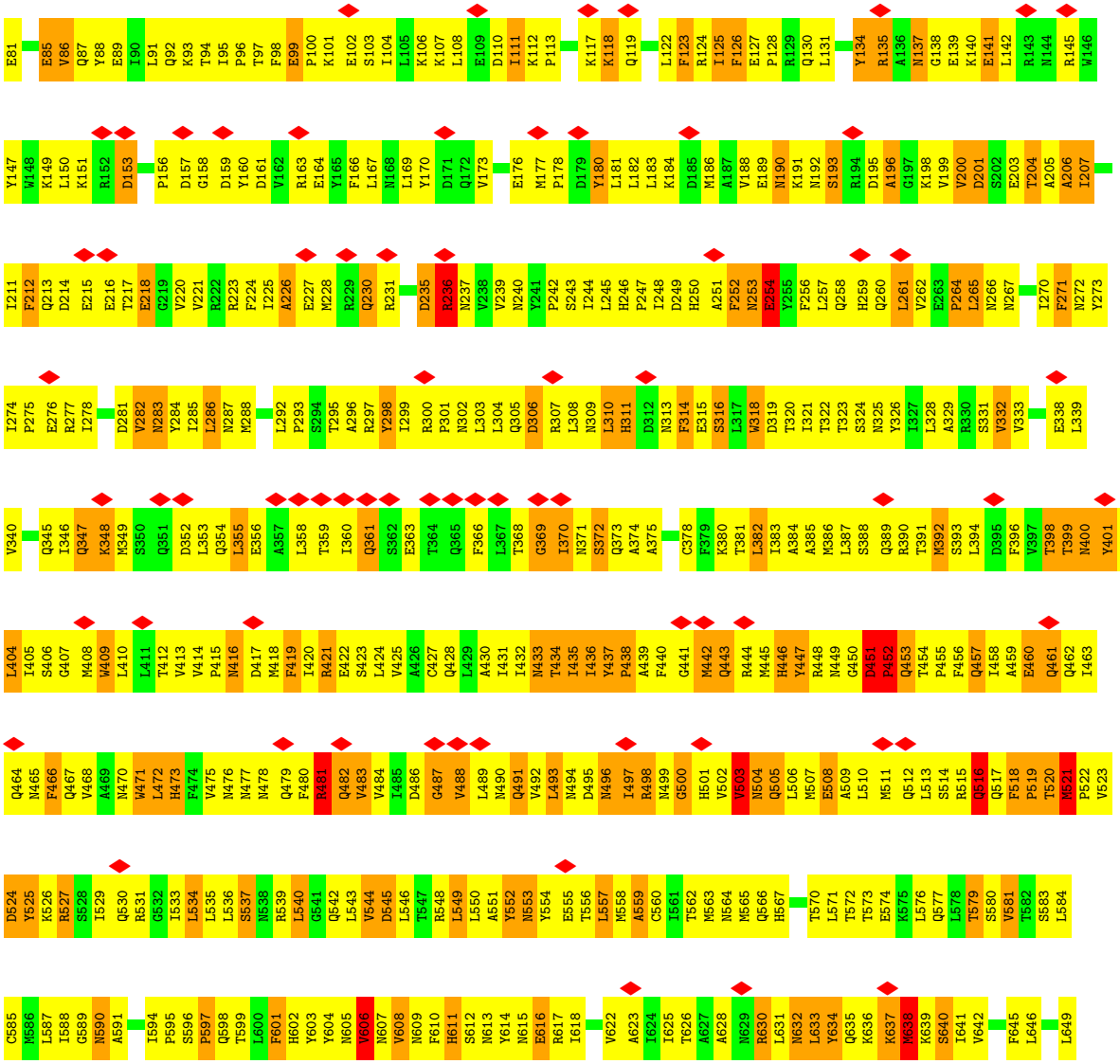


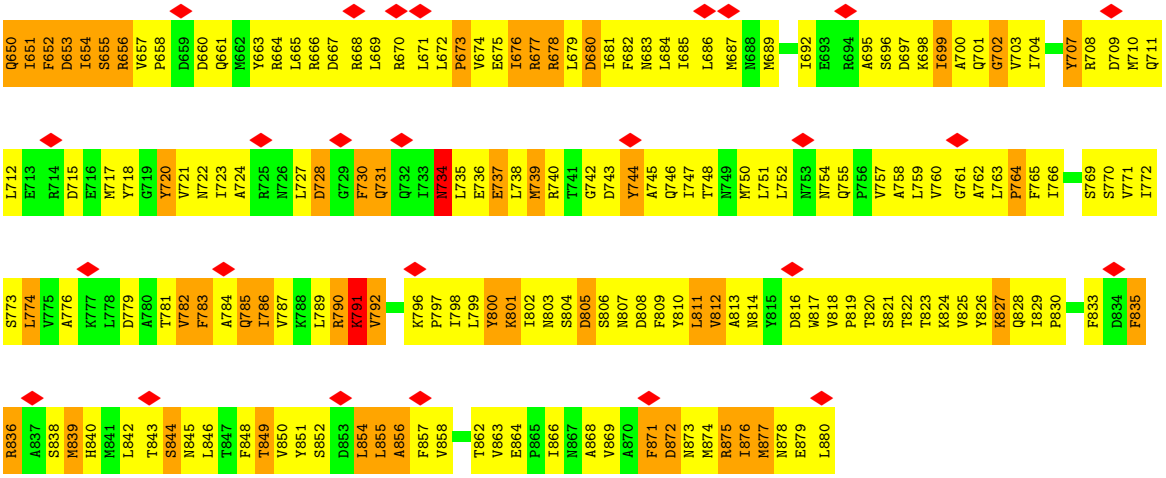


• Molecule 1: Core scaffold protein

Chain AB:

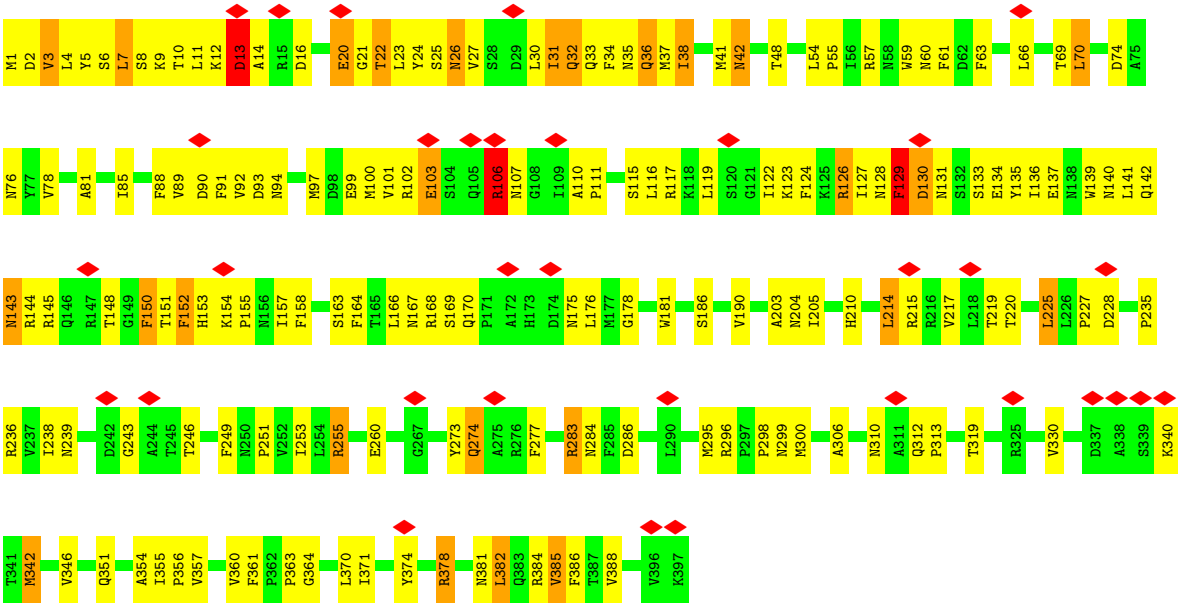






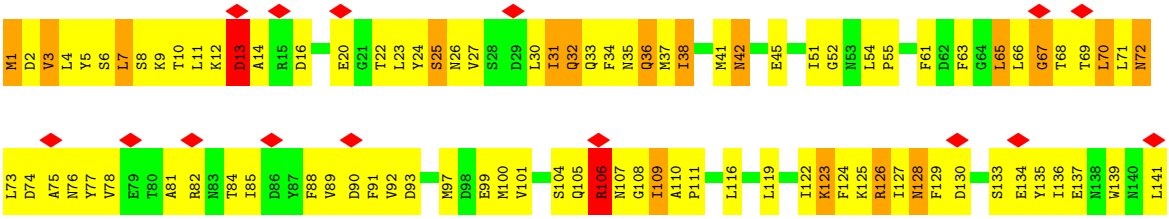
• Molecule 2: Intermediate capsid protein VP6

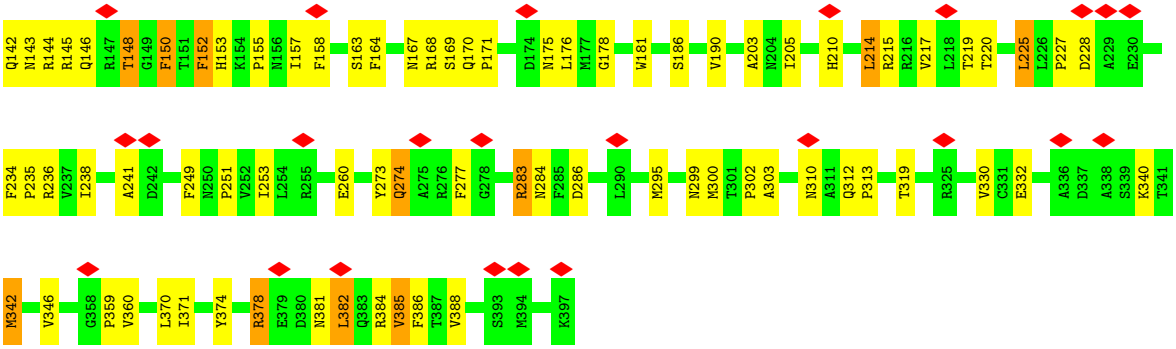
Chain AC:



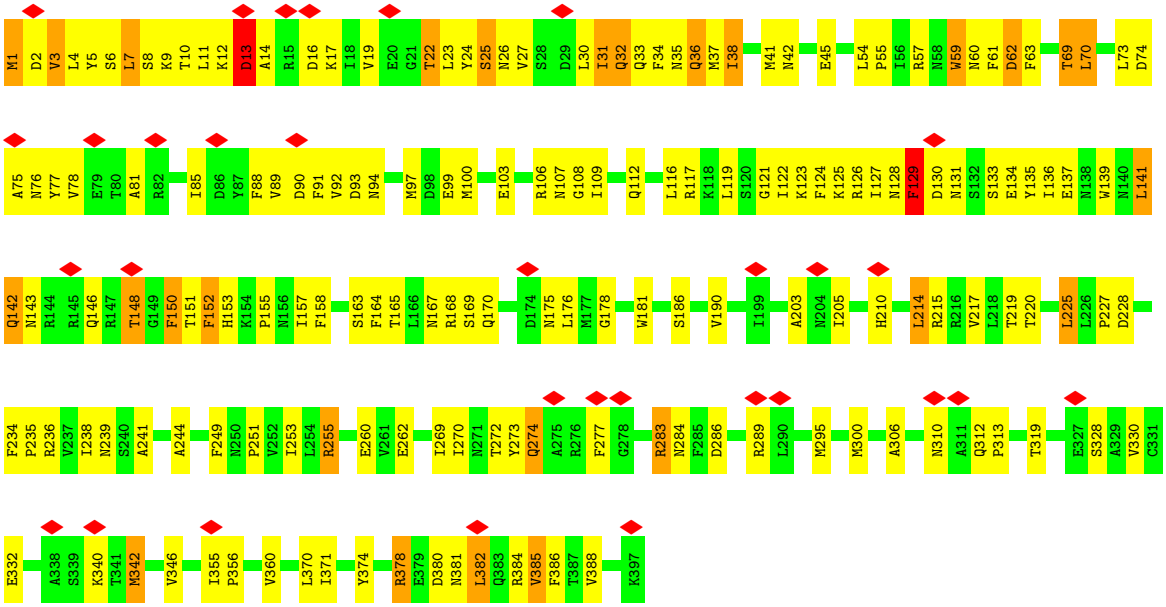
• Molecule 2: Intermediate capsid protein VP6

Chain AD:

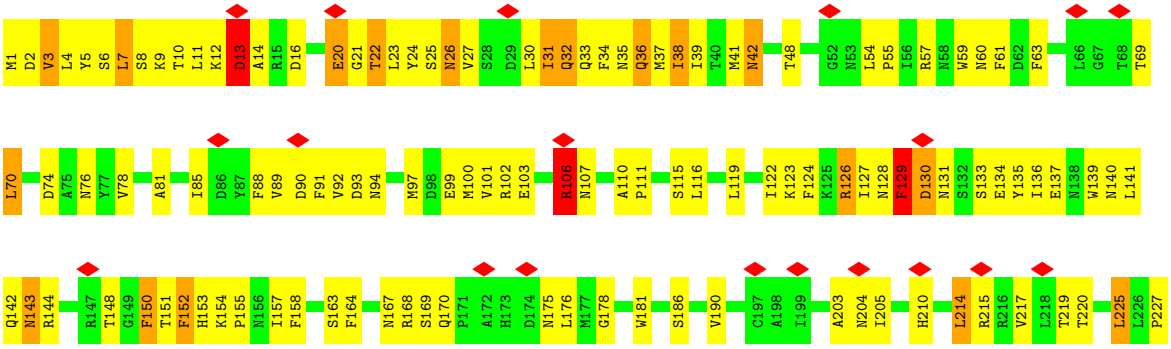


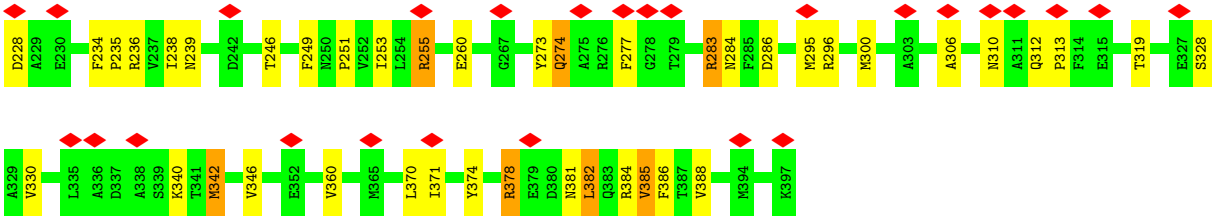


• Molecule 2: Intermediate capsid protein VP6



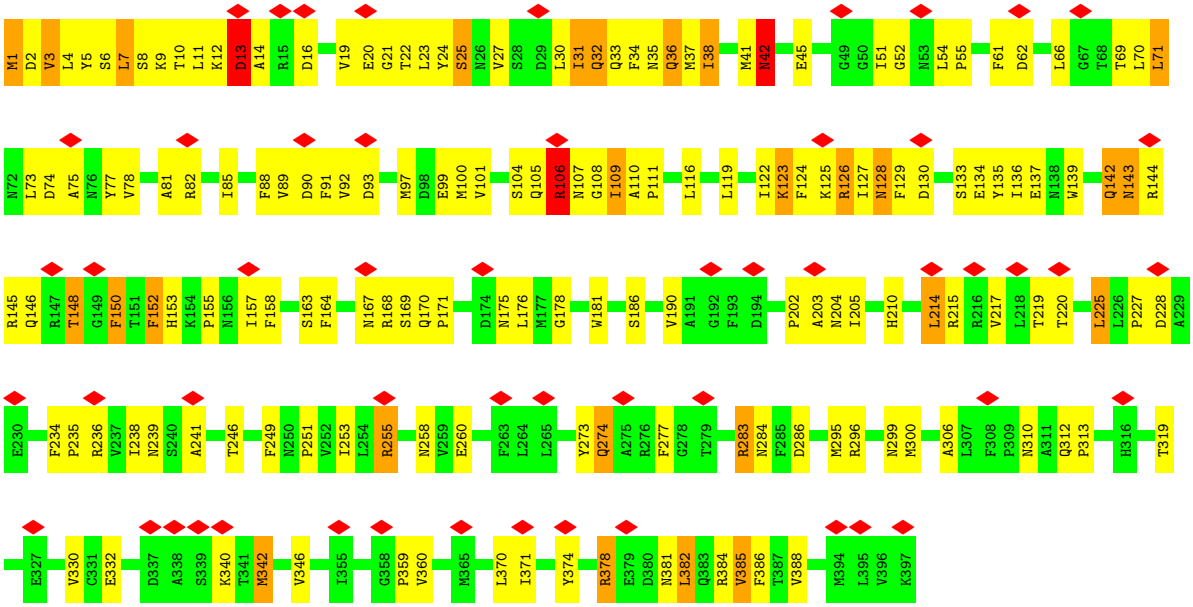
• Molecule 2: Intermediate capsid protein VP6





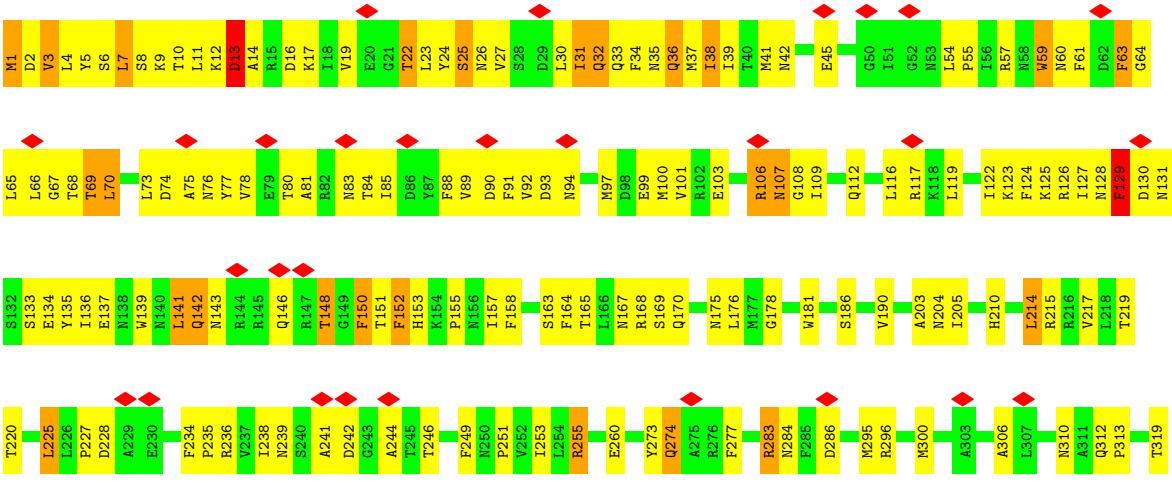
• Molecule 2: Intermediate capsid protein VP6

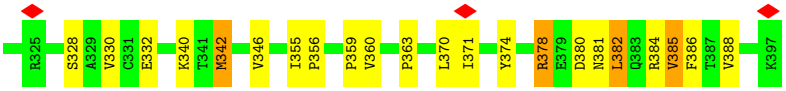
Chain AG:



• Molecule 2: Intermediate capsid protein VP6

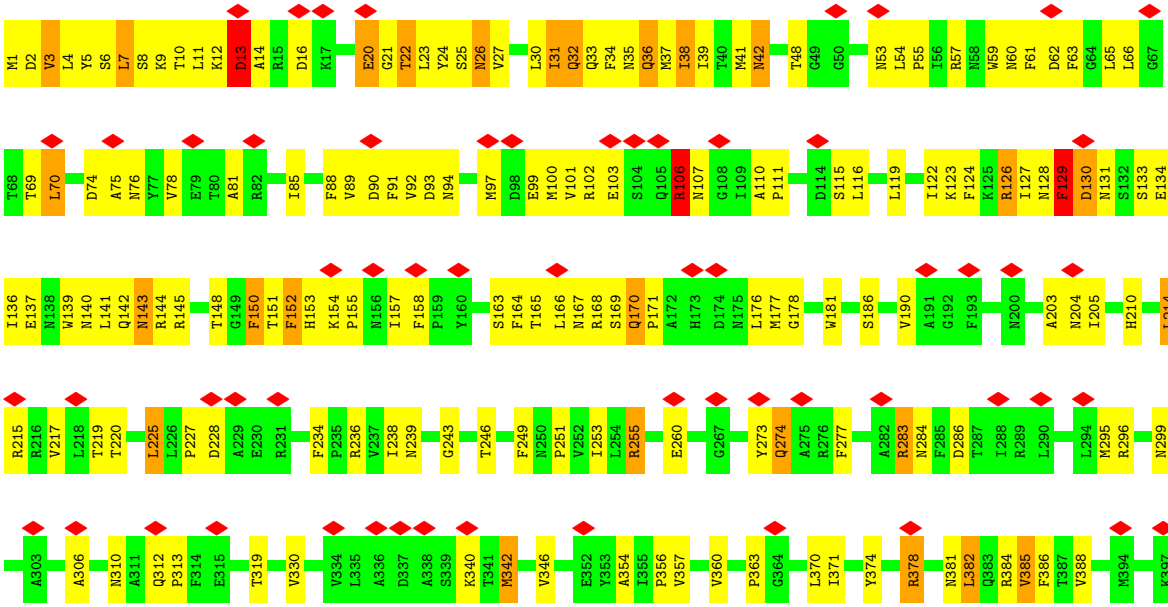
Chain AH:





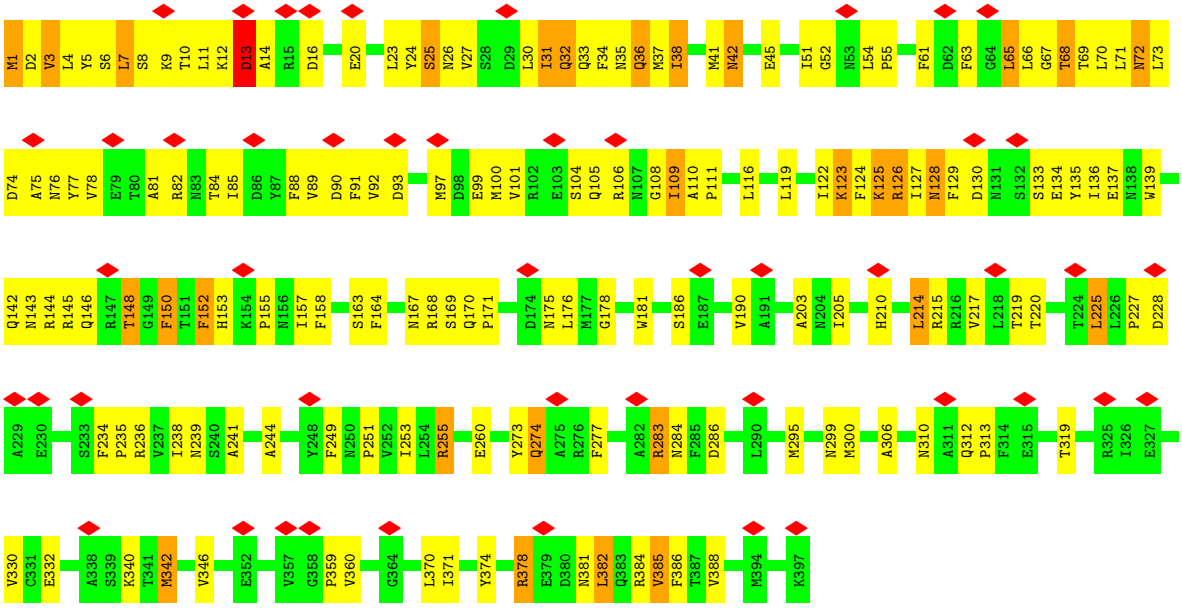
• Molecule 2: Intermediate capsid protein VP6

Chain AI:



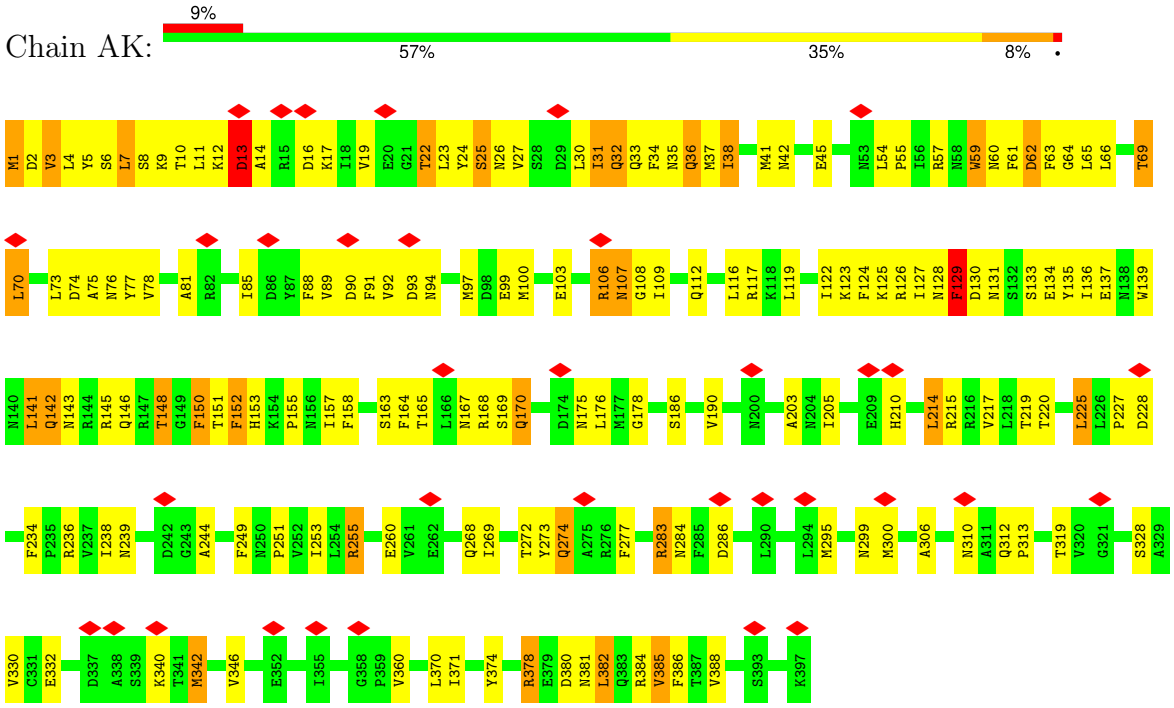
• Molecule 2: Intermediate capsid protein VP6

Chain AJ:



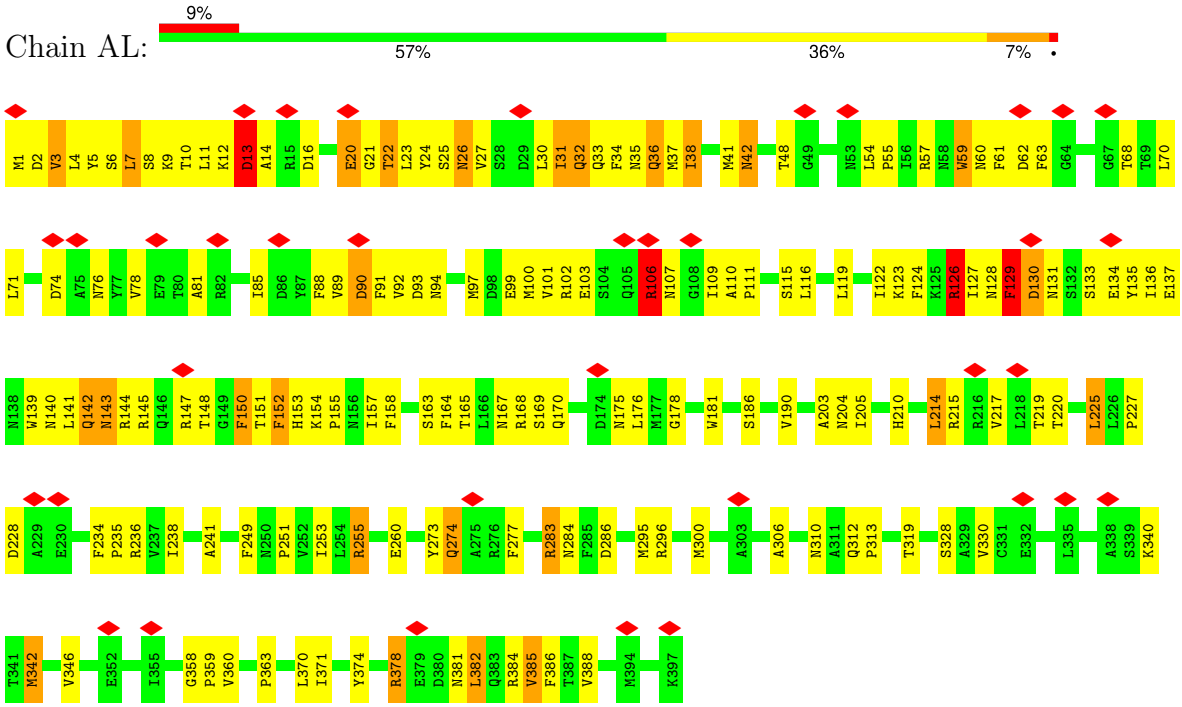
• Molecule 2: Intermediate capsid protein VP6

Chain AK:



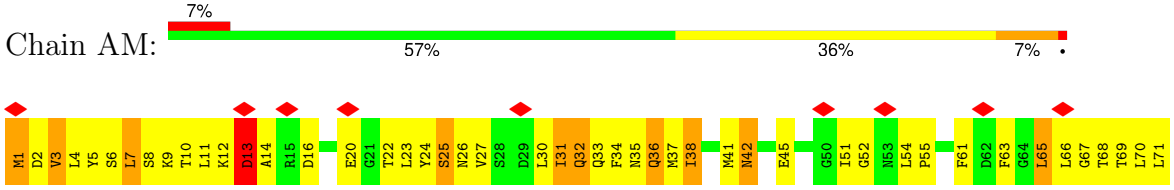
• Molecule 2: Intermediate capsid protein VP6

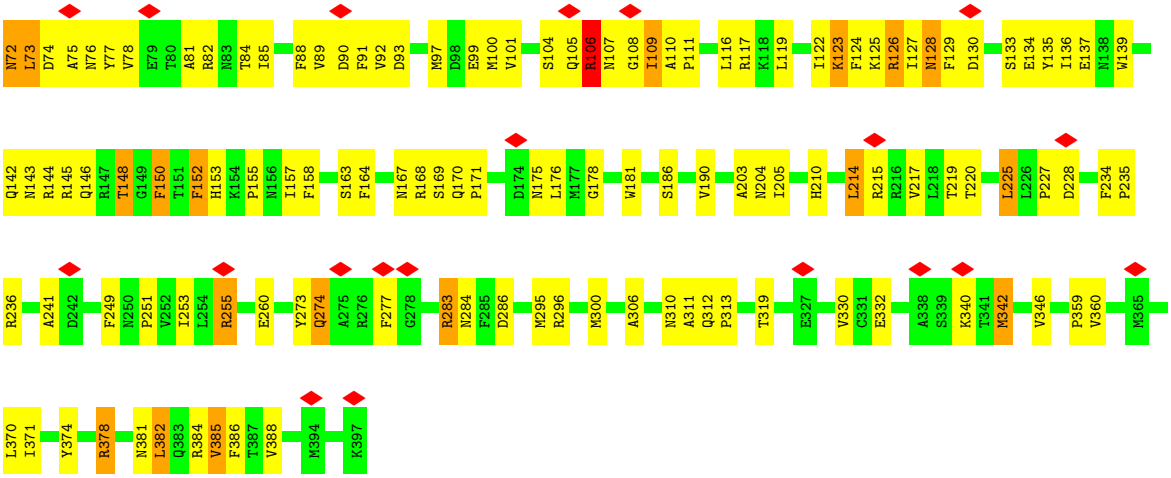
Chain AL:



• Molecule 2: Intermediate capsid protein VP6

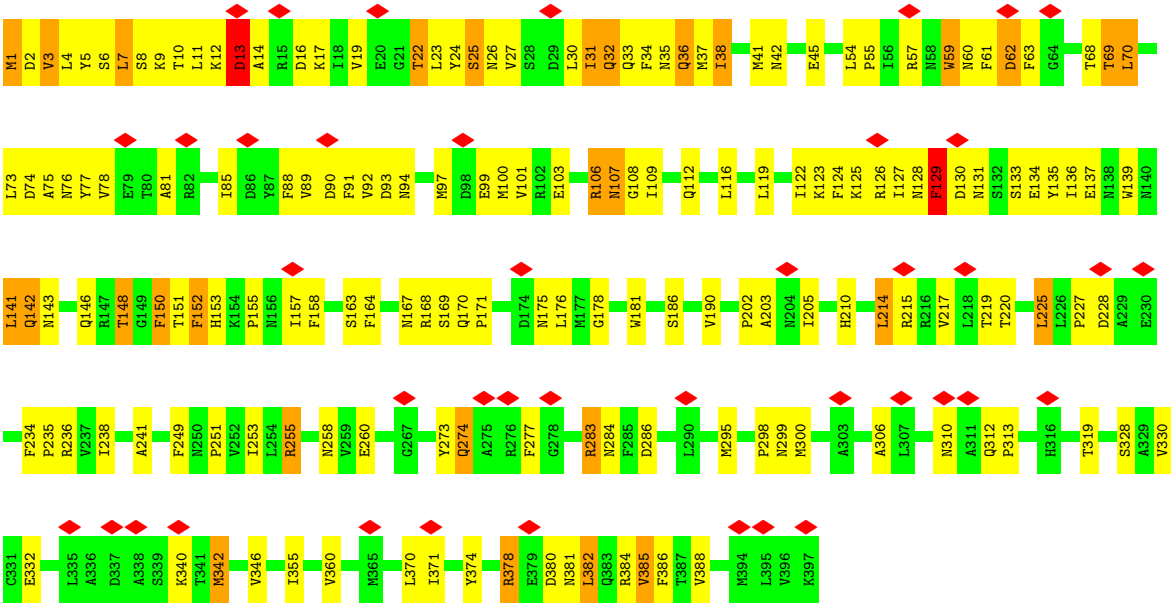
Chain AM:





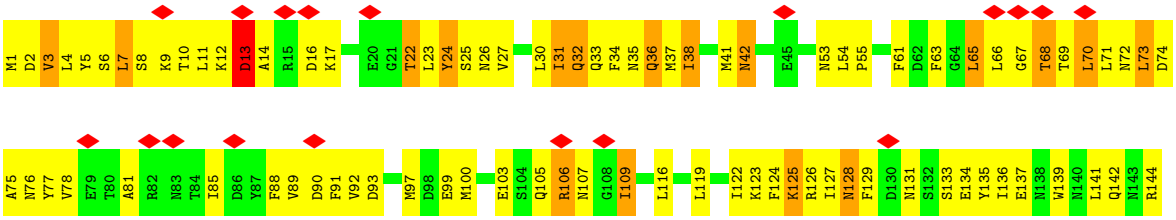
• Molecule 2: Intermediate capsid protein VP6

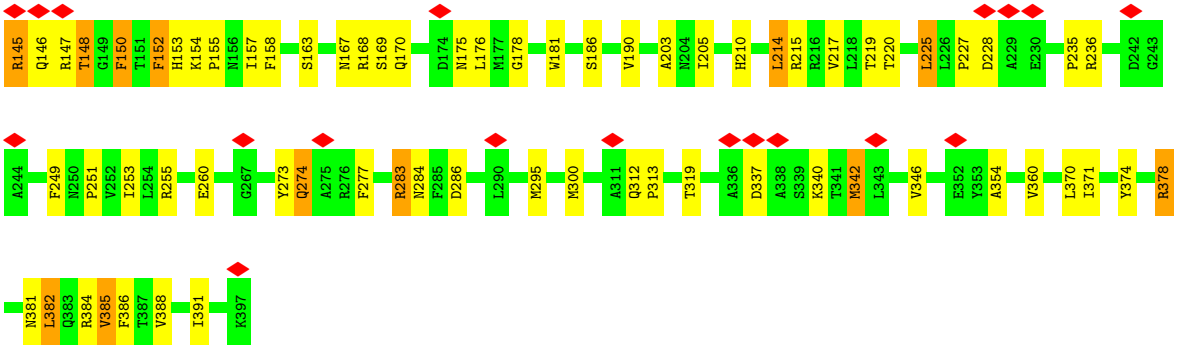
Chain AN:



• Molecule 2: Intermediate capsid protein VP6

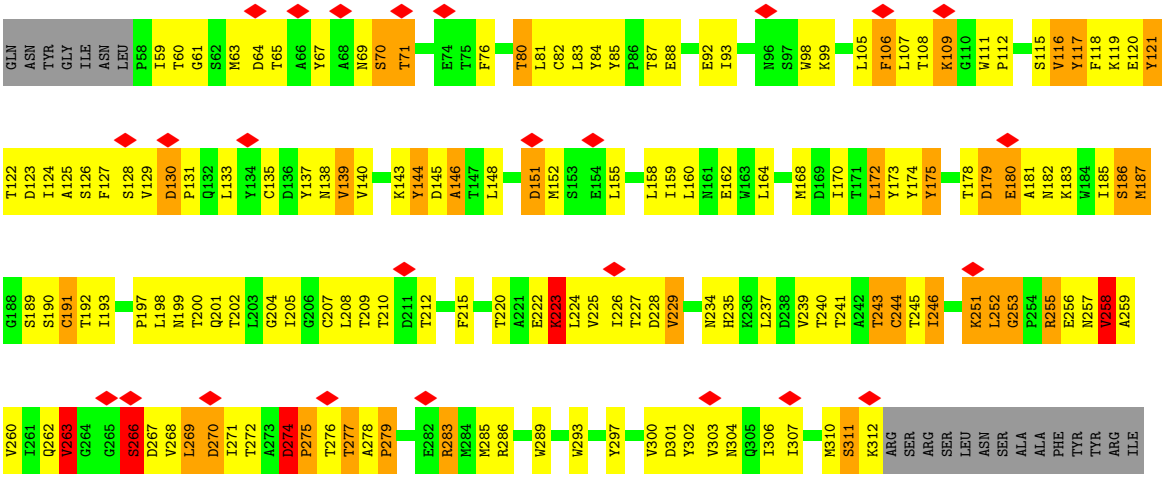
Chain AO:





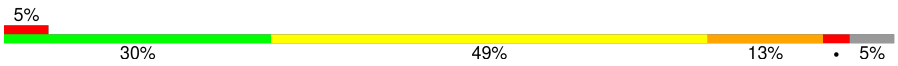
• Molecule 3: Outer layer protein VP7

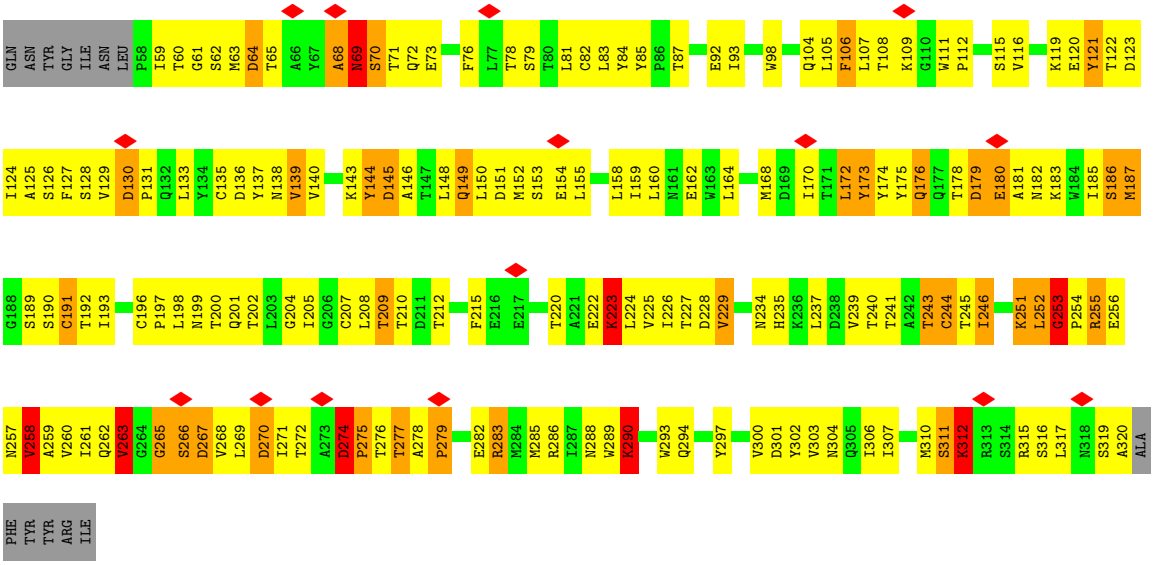
Chain BA:



• Molecule 3: Outer layer protein VP7

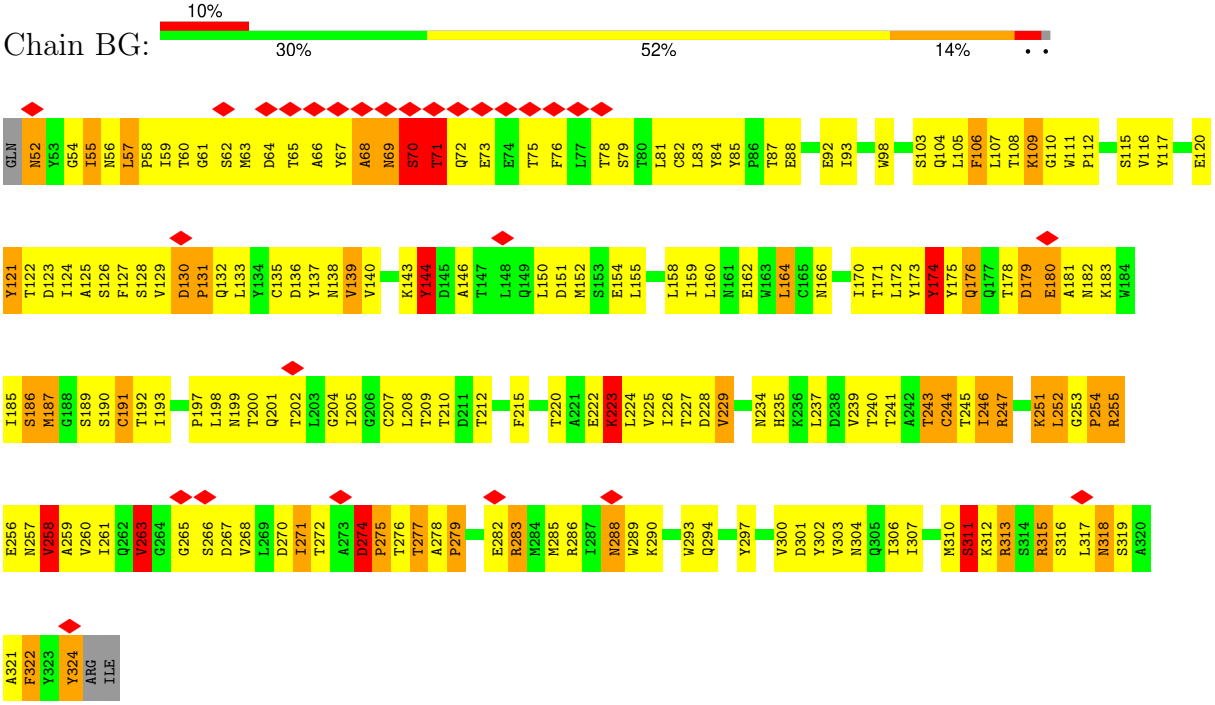
Chain BF:





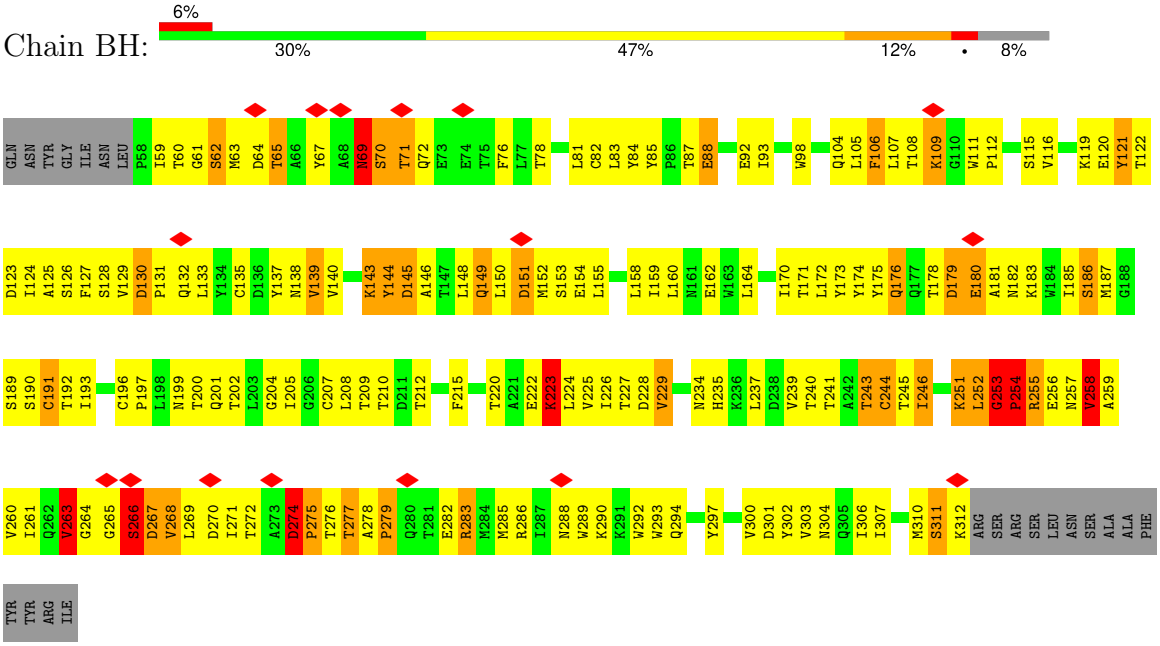
• Molecule 3: Outer layer protein VP7

Chain BG:



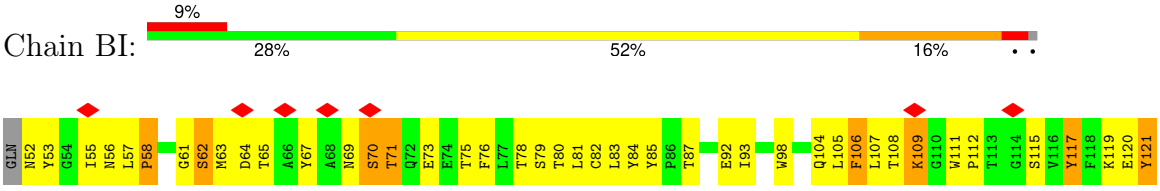
• Molecule 3: Outer layer protein VP7

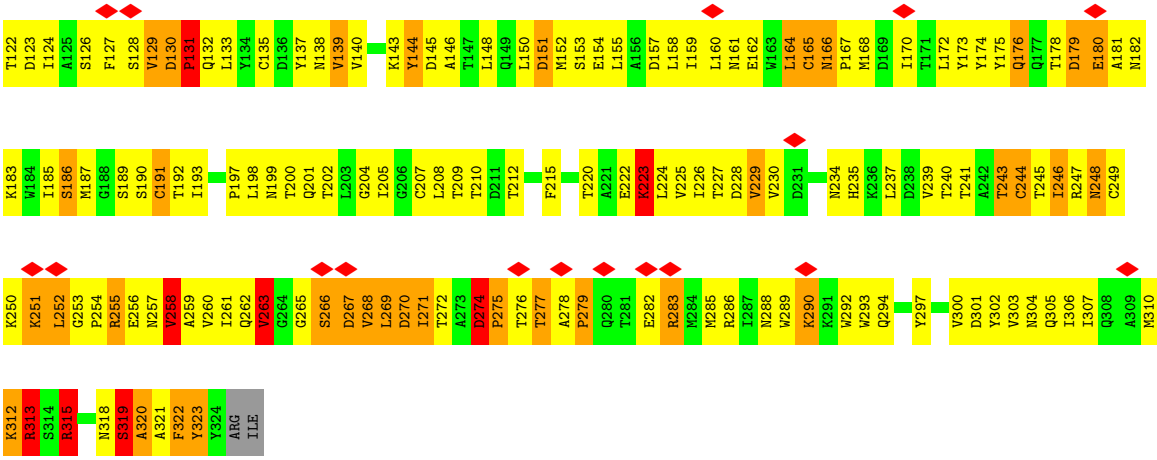
Chain BH:



• Molecule 3: Outer layer protein VP7

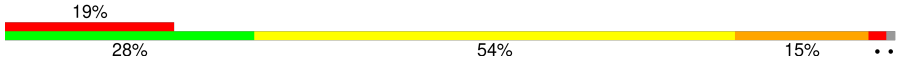
Chain BI:

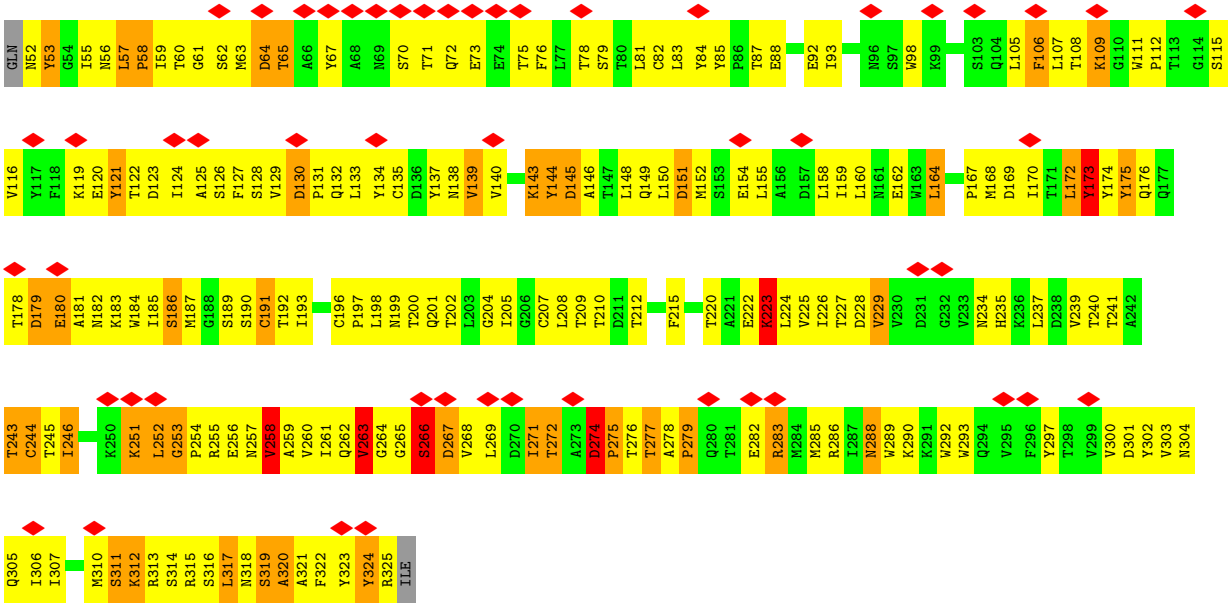




• Molecule 3: Outer layer protein VP7

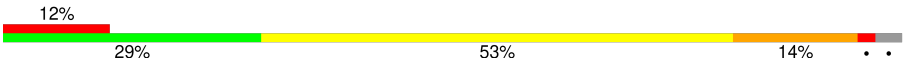
Chain BJ:

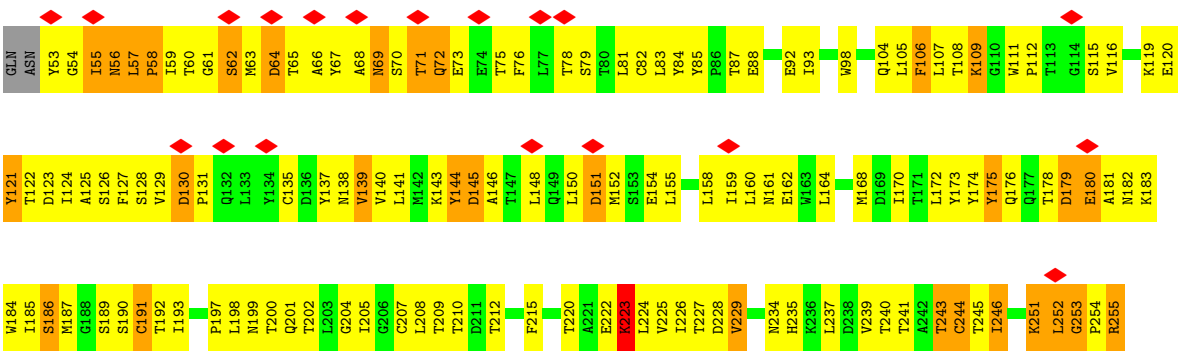


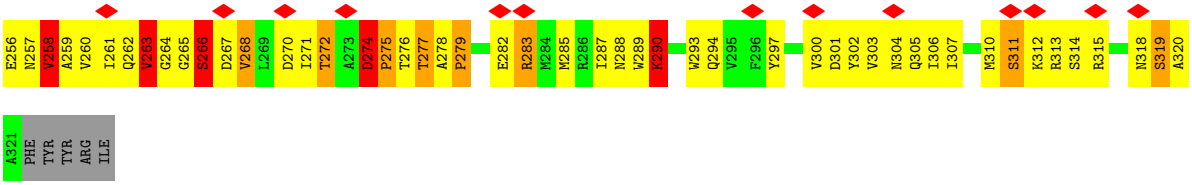


• Molecule 3: Outer layer protein VP7

Chain BK:

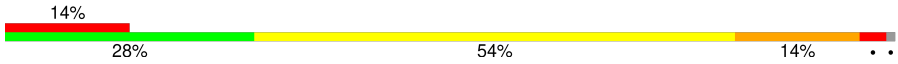


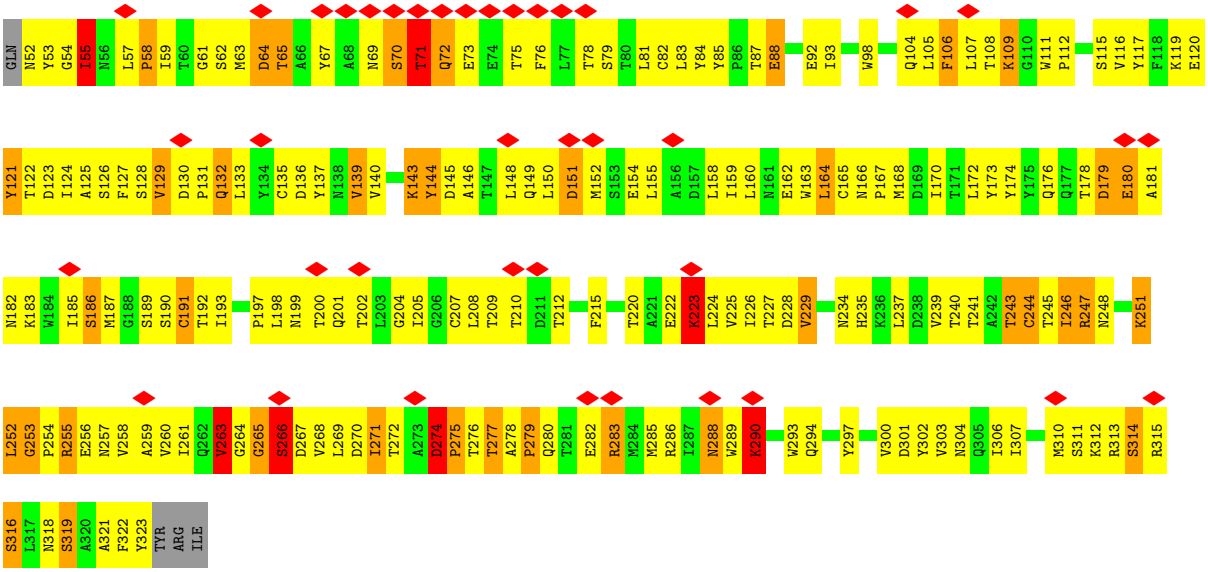




• Molecule 3: Outer layer protein VP7

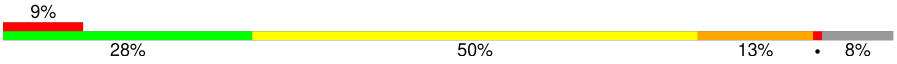
Chain BL:

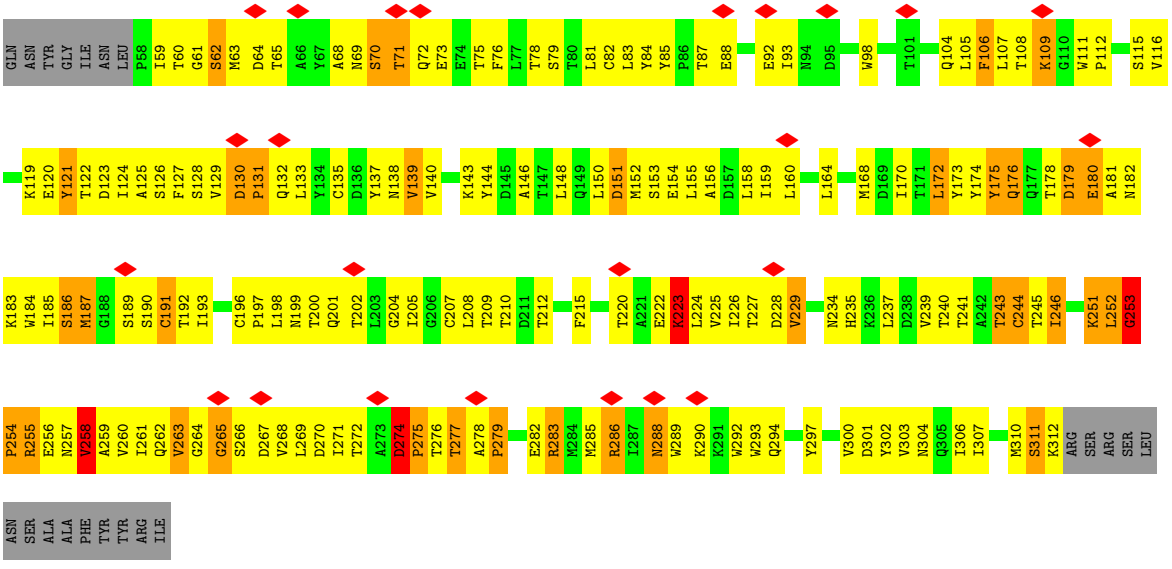




• Molecule 3: Outer layer protein VP7

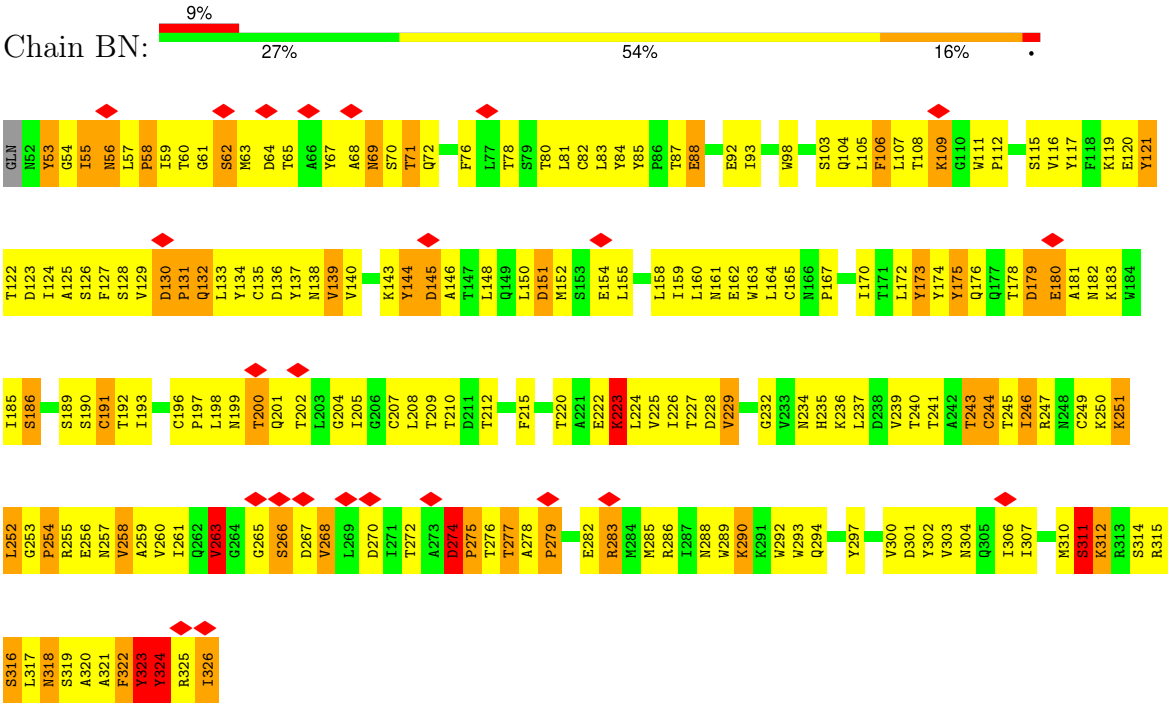
Chain BM:





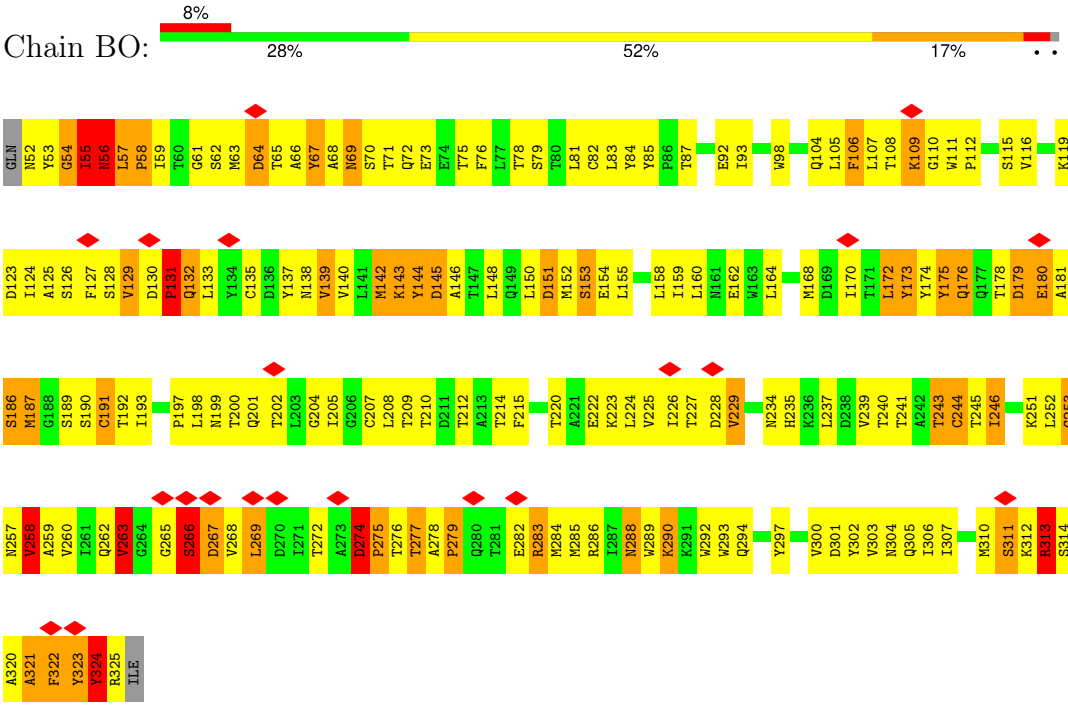
• Molecule 3: Outer layer protein VP7

Chain BN:



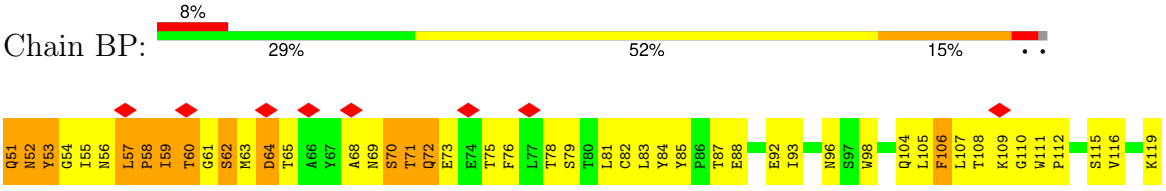
• Molecule 3: Outer layer protein VP7

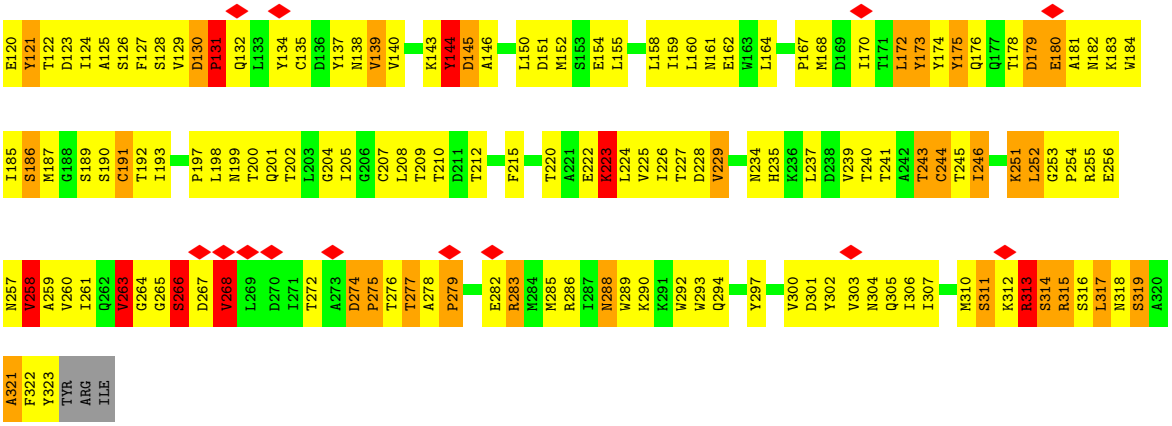
Chain BO:



• Molecule 3: Outer layer protein VP7

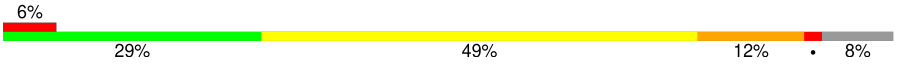
Chain BP:

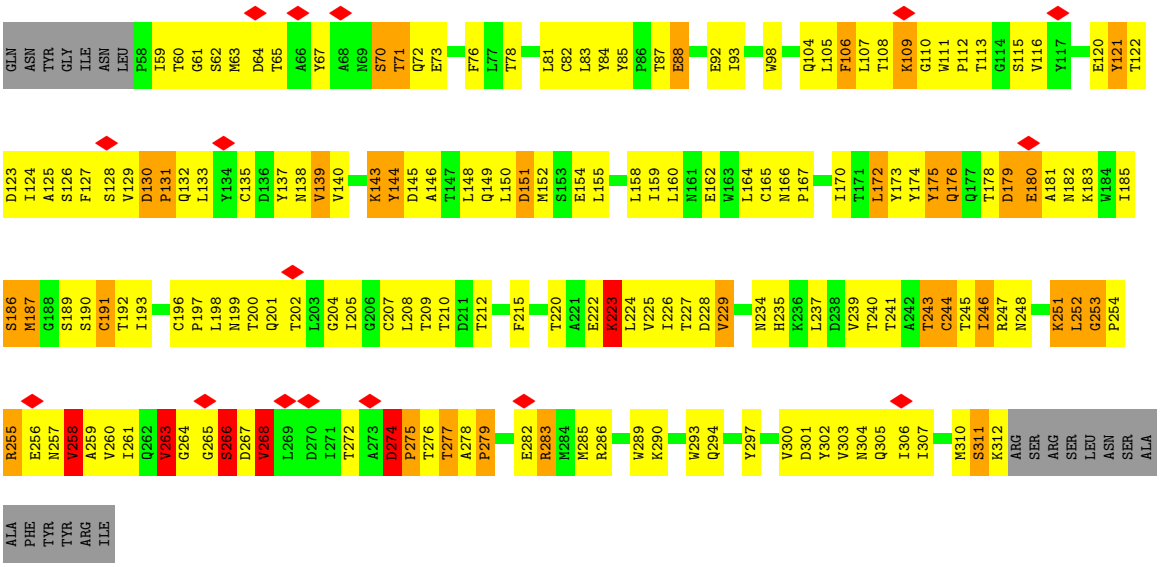




• Molecule 3: Outer layer protein VP7

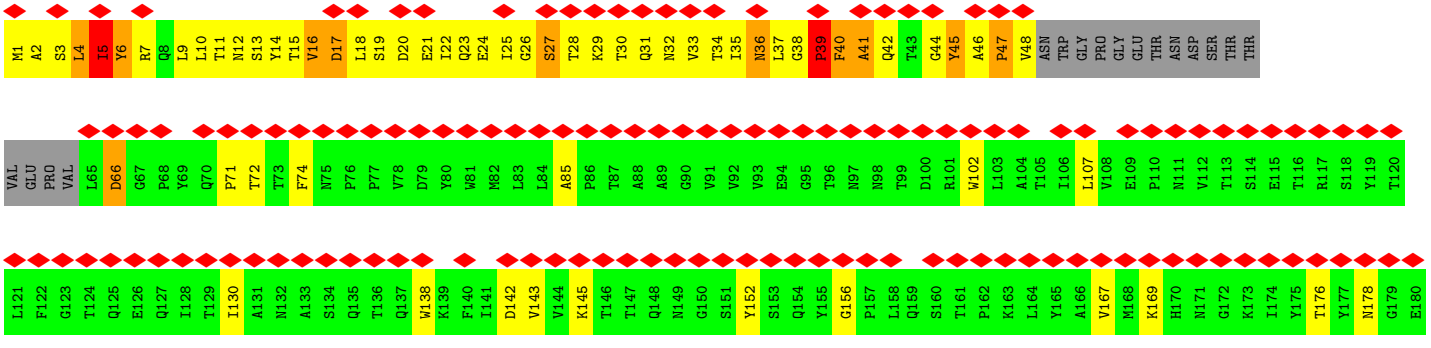
Chain BQ:

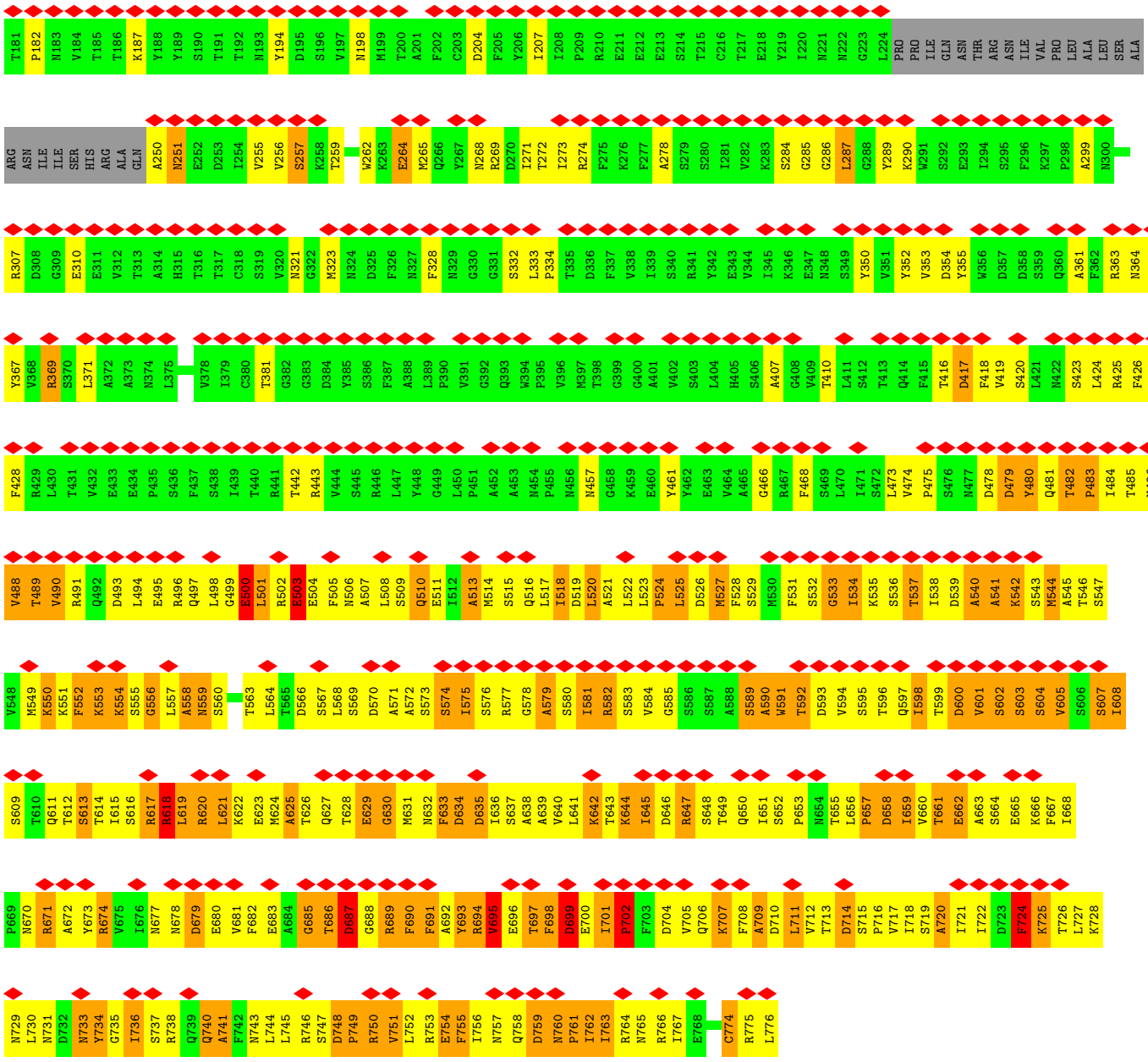




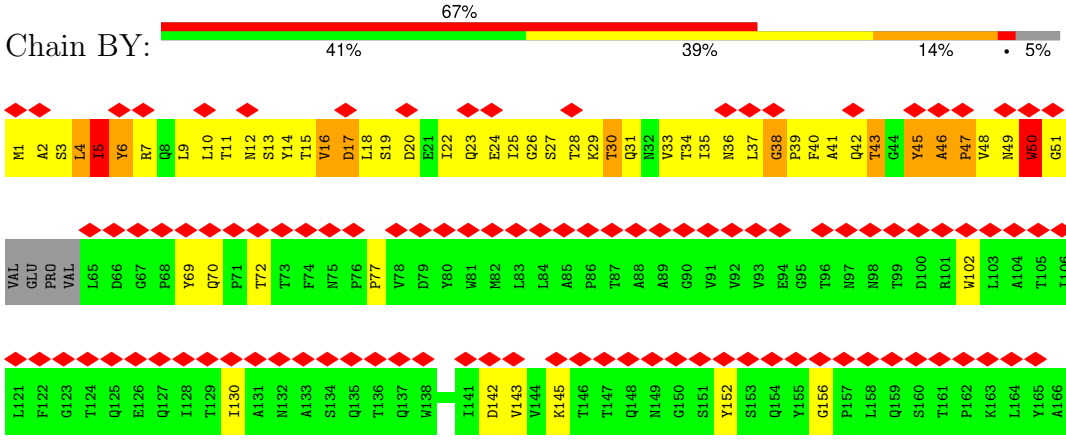
• Molecule 4: Outer capsid protein VP4

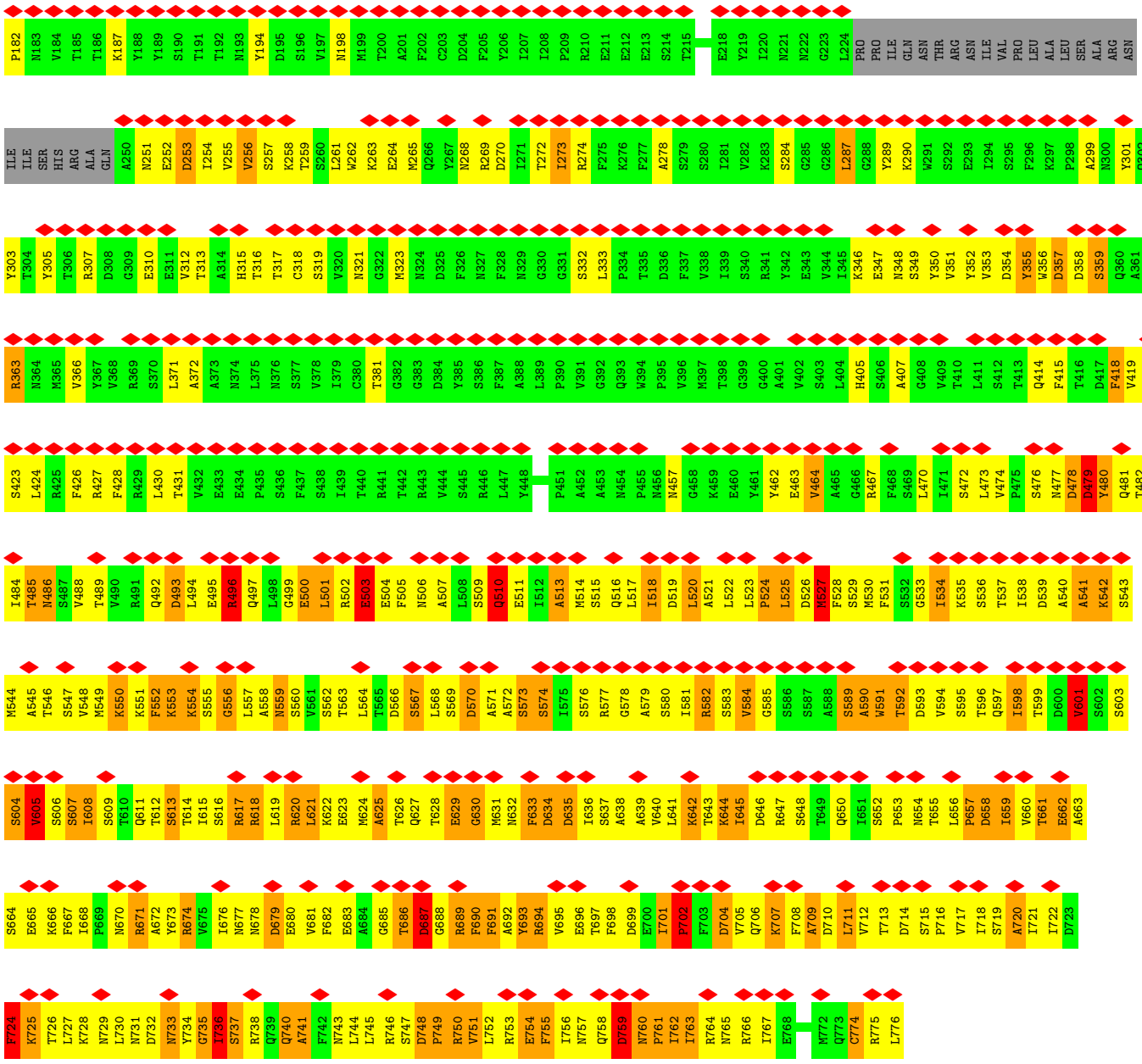
Chain BX:





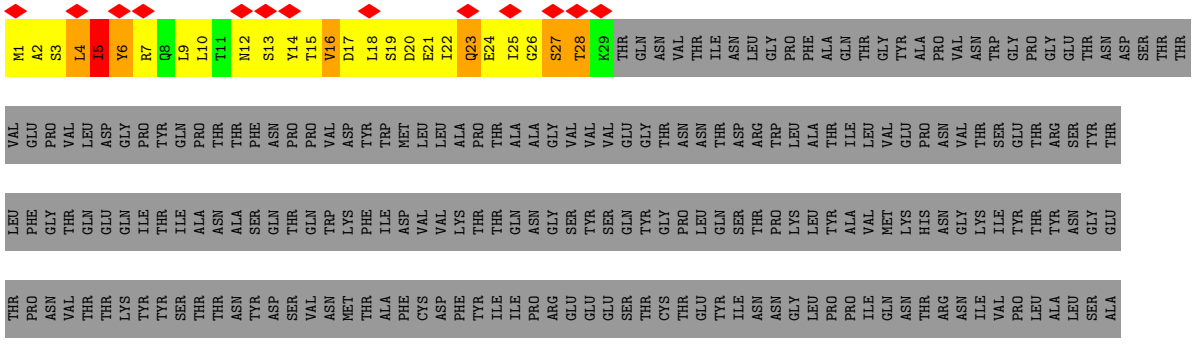
• Molecule 4: Outer capsid protein VP4

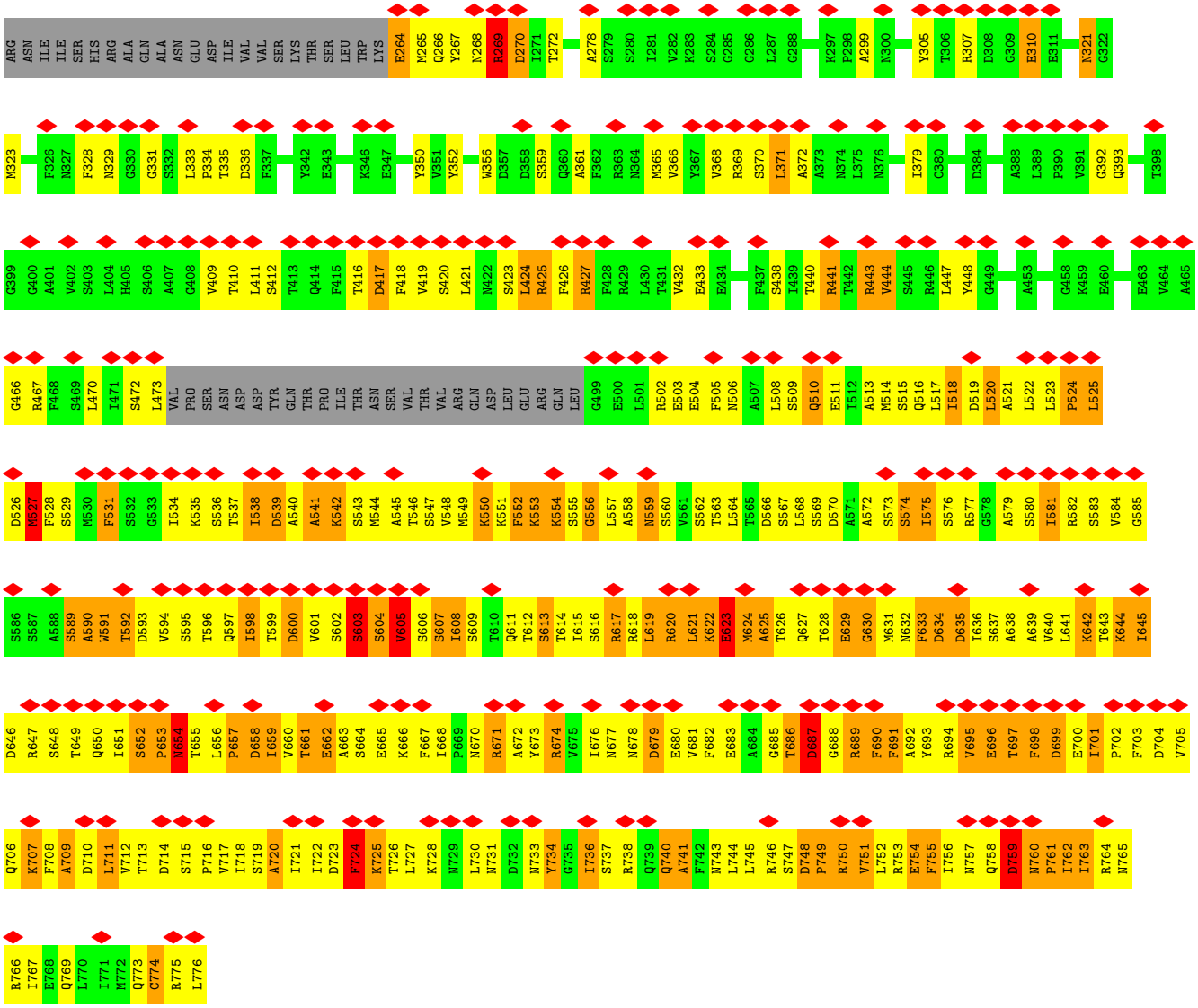




• Molecule 4: Outer capsid protein VP4

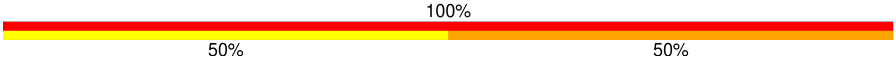
Chain BZ:





• Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain A:

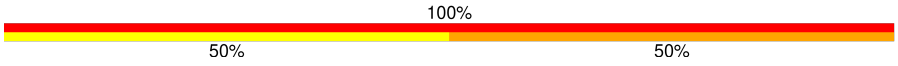


• Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain B:

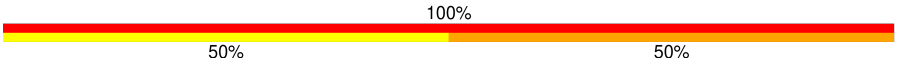
• Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain C:



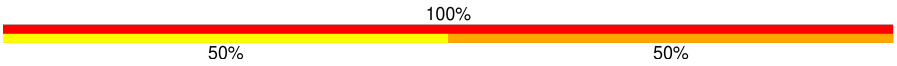
• Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain D:



• Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain E:



• Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain F:

• Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain G:

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	4187	Depositor
Resolution determination method	Not provided	
CTF correction method	individual particle	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	20	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	56772	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	0.486	Depositor
Minimum map value	-0.323	Depositor
Average map value	-0.013	Depositor
Map value standard deviation	0.041	Depositor
Recommended contour level	0.12	Depositor
Map size (Å)	615.0, 615.0, 615.0	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.23, 1.23, 1.23	Depositor

5 Model quality

5.1 Standard geometry

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

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 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	AA	0.60	3/6495 (0.0%)	0.89	12/8810 (0.1%)
1	AB	0.57	1/6665 (0.0%)	0.86	10/9041 (0.1%)
2	AC	0.51	0/3233	0.76	5/4397 (0.1%)
2	AD	0.51	0/3233	0.76	5/4397 (0.1%)
2	AE	0.51	0/3233	0.76	5/4397 (0.1%)
2	AF	0.51	0/3233	0.76	5/4397 (0.1%)
2	AG	0.52	0/3233	0.79	8/4397 (0.2%)
2	AH	0.52	0/3233	0.78	8/4397 (0.2%)
2	AI	0.51	0/3233	0.76	5/4397 (0.1%)
2	AJ	0.52	0/3233	0.77	5/4397 (0.1%)
2	AK	0.52	1/3233 (0.0%)	0.76	5/4397 (0.1%)
2	AL	0.52	0/3233	0.76	5/4397 (0.1%)
2	AM	0.52	0/3233	0.76	5/4397 (0.1%)
2	AN	0.51	0/3233	0.76	5/4397 (0.1%)
2	AO	0.52	0/3233	0.76	5/4397 (0.1%)
3	BA	0.94	9/2053 (0.4%)	1.33	30/2806 (1.1%)
3	BF	0.72	6/2114 (0.3%)	1.28	30/2887 (1.0%)
3	BG	0.79	7/2206 (0.3%)	1.23	25/3014 (0.8%)
3	BH	0.76	8/2053 (0.4%)	1.21	25/2806 (0.9%)
3	BI	0.82	11/2206 (0.5%)	1.41	37/3014 (1.2%)
3	BJ	0.80	9/2217 (0.4%)	1.27	30/3028 (1.0%)
3	BK	0.80	8/2160 (0.4%)	1.32	33/2951 (1.1%)
3	BL	0.70	4/2193 (0.2%)	1.22	24/2996 (0.8%)
3	BM	0.75	6/2053 (0.3%)	1.17	17/2806 (0.6%)
3	BN	0.79	8/2225 (0.4%)	1.18	24/3039 (0.8%)
3	BO	0.73	5/2217 (0.2%)	1.35	32/3028 (1.1%)
3	BP	0.80	8/2202 (0.4%)	1.31	37/3008 (1.2%)
3	BQ	0.73	6/2053 (0.3%)	1.24	23/2806 (0.8%)
4	BX	0.71	4/5897 (0.1%)	0.88	4/8017 (0.0%)
4	BY	0.74	2/5925 (0.0%)	0.91	10/8056 (0.1%)
4	BZ	0.61	1/4128 (0.0%)	0.82	1/5586 (0.0%)
All	All	0.64	107/99091 (0.1%)	0.97	475/134860 (0.4%)

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 outliers	#Planarity outliers
1	AB	0	1

All (107) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	BY	485	THR	CB-OG1	-23.88	0.95	1.43
3	BA	116	VAL	CB-CG2	-21.24	1.08	1.52
4	BX	257	SER	CB-OG	17.14	1.64	1.42
3	BA	116	VAL	CB-CG1	13.05	1.80	1.52
4	BY	485	THR	CB-CG2	11.03	1.88	1.52
3	BJ	58	PRO	C-N	10.28	1.57	1.34
3	BP	317	LEU	C-N	9.89	1.56	1.34
3	BN	173	TYR	C-N	9.63	1.56	1.34
3	BG	71	THR	CB-OG1	8.79	1.60	1.43
3	BI	258	VAL	C-N	8.57	1.53	1.34
3	BO	258	VAL	C-N	8.56	1.53	1.34
3	BJ	258	VAL	C-N	8.55	1.53	1.34
3	BG	258	VAL	C-N	8.52	1.53	1.34
3	BM	258	VAL	C-N	8.52	1.53	1.34
3	BA	258	VAL	C-N	8.51	1.53	1.34
3	BQ	258	VAL	C-N	8.51	1.53	1.34
3	BP	258	VAL	C-N	8.50	1.53	1.34
3	BF	258	VAL	C-N	8.50	1.53	1.34
3	BH	258	VAL	C-N	8.50	1.53	1.34
3	BK	258	VAL	C-N	8.46	1.53	1.34
3	BI	57	LEU	C-N	7.81	1.49	1.34
3	BQ	62	SER	C-N	6.74	1.49	1.34
3	BH	62	SER	C-N	6.73	1.49	1.34
3	BJ	62	SER	C-N	6.71	1.49	1.34
3	BK	62	SER	C-N	6.70	1.49	1.34
3	BP	62	SER	C-N	6.67	1.49	1.34
3	BM	62	SER	C-N	6.66	1.49	1.34
3	BI	62	SER	C-N	6.64	1.49	1.34
3	BI	166	ASN	N-CA	6.45	1.59	1.46
3	BJ	245	THR	CB-OG1	6.44	1.56	1.43
3	BI	245	THR	CB-OG1	6.44	1.56	1.43
3	BM	245	THR	CB-OG1	6.43	1.56	1.43
3	BF	245	THR	CB-OG1	6.42	1.56	1.43
3	BH	245	THR	CB-OG1	6.42	1.56	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	BP	245	THR	CB-OG1	6.42	1.56	1.43
3	BK	245	THR	CB-OG1	6.41	1.56	1.43
3	BO	245	THR	CB-OG1	6.41	1.56	1.43
3	BA	245	THR	CB-OG1	6.41	1.56	1.43
3	BN	245	THR	CB-OG1	6.40	1.56	1.43
3	BL	245	THR	CB-OG1	6.40	1.56	1.43
3	BQ	245	THR	CB-OG1	6.39	1.56	1.43
3	BG	245	THR	CB-OG1	6.37	1.55	1.43
3	BG	254	PRO	N-CD	6.34	1.56	1.47
3	BG	246	ILE	CB-CG2	6.18	1.72	1.52
3	BM	246	ILE	CB-CG2	6.18	1.72	1.52
3	BH	246	ILE	CB-CG2	6.18	1.72	1.52
3	BJ	246	ILE	CB-CG2	6.17	1.72	1.52
3	BL	246	ILE	CB-CG2	6.17	1.72	1.52
3	BP	246	ILE	CB-CG2	6.17	1.72	1.52
3	BN	246	ILE	CB-CG2	6.17	1.72	1.52
3	BA	246	ILE	CB-CG2	6.17	1.72	1.52
3	BO	246	ILE	CB-CG2	6.17	1.72	1.52
3	BQ	246	ILE	CB-CG2	6.16	1.72	1.52
3	BF	246	ILE	CB-CG2	6.15	1.72	1.52
3	BI	246	ILE	CB-CG2	6.15	1.72	1.52
3	BA	80	THR	C-O	6.14	1.35	1.23
3	BK	246	ILE	CB-CG2	6.10	1.71	1.52
3	BJ	172	LEU	C-N	6.08	1.48	1.34
3	BQ	172	LEU	C-N	6.06	1.48	1.34
3	BO	172	LEU	C-N	6.05	1.48	1.34
3	BA	172	LEU	C-N	6.04	1.48	1.34
3	BM	172	LEU	C-N	6.04	1.48	1.34
3	BP	172	LEU	C-N	6.03	1.48	1.34
3	BK	172	LEU	C-N	6.03	1.48	1.34
3	BF	172	LEU	C-N	6.02	1.47	1.34
3	BI	172	LEU	C-N	6.02	1.47	1.34
3	BN	54	GLY	CA-C	-5.98	1.42	1.51
4	BX	256	VAL	C-N	-5.89	1.20	1.34
3	BH	65	THR	C-N	-5.87	1.20	1.34
1	AA	242	PRO	N-CD	5.84	1.56	1.47
3	BK	57	LEU	N-CA	5.83	1.58	1.46
3	BA	80	THR	C-N	-5.75	1.20	1.34
4	BZ	371	LEU	N-CA	5.68	1.57	1.46
3	BJ	267	ASP	C-N	5.68	1.47	1.34
3	BG	151	ASP	C-N	5.67	1.47	1.34
3	BO	151	ASP	C-N	5.66	1.47	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	BP	151	ASP	C-N	5.65	1.47	1.34
3	BJ	151	ASP	C-N	5.65	1.47	1.34
3	BI	151	ASP	C-N	5.64	1.47	1.34
3	BM	151	ASP	C-N	5.63	1.47	1.34
3	BA	151	ASP	C-N	5.63	1.47	1.34
3	BK	151	ASP	C-N	5.63	1.47	1.34
3	BH	151	ASP	C-N	5.62	1.47	1.34
3	BQ	151	ASP	C-N	5.62	1.47	1.34
3	BN	151	ASP	C-N	5.62	1.47	1.34
3	BL	151	ASP	C-N	5.59	1.47	1.34
3	BN	132	GLN	C-N	-5.54	1.21	1.34
1	AA	362	SER	C-N	-5.50	1.21	1.34
4	BX	44	GLY	CA-C	5.47	1.60	1.51
3	BF	254	PRO	N-CD	5.45	1.55	1.47
3	BG	324	TYR	C-O	5.41	1.33	1.23
3	BF	69	ASN	N-CA	-5.35	1.35	1.46
3	BN	55	ILE	N-CA	-5.35	1.35	1.46
3	BI	165	CYS	C-N	5.33	1.46	1.34
3	BH	254	PRO	N-CD	5.31	1.55	1.47
1	AA	256	PHE	C-N	5.30	1.46	1.34
3	BP	144	TYR	CB-CG	5.29	1.59	1.51
3	BK	58	PRO	N-CA	5.26	1.56	1.47
3	BJ	272	THR	N-CA	-5.23	1.35	1.46
2	AK	64	GLY	CA-C	5.17	1.60	1.51
3	BN	311	SER	C-N	-5.08	1.22	1.34
4	BX	483	PRO	N-CD	5.07	1.54	1.47
3	BI	58	PRO	N-CA	5.05	1.55	1.47
3	BH	121	TYR	C-N	-5.03	1.22	1.34
1	AB	113	PRO	N-CD	5.03	1.54	1.47
3	BI	121	TYR	C-N	-5.02	1.22	1.34
3	BL	121	TYR	C-N	-5.00	1.22	1.34

All (475) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BO	57	LEU	C-N-CD	-24.11	67.55	120.60
3	BA	116	VAL	CA-CB-CG2	21.33	142.90	110.90
4	BX	46	ALA	C-N-CD	-20.07	76.44	120.60
4	BY	485	THR	CA-CB-CG2	-17.76	87.54	112.40
3	BK	57	LEU	C-N-CD	-17.58	81.93	120.60
3	BL	64	ASP	O-C-N	16.03	148.35	122.70
3	BI	131	PRO	CA-N-CD	-16.00	89.09	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BJ	64	ASP	O-C-N	16.00	148.31	122.70
3	BI	266	SER	CB-CA-C	14.51	137.67	110.10
3	BQ	130	ASP	C-N-CD	-14.30	89.14	120.60
4	BY	46	ALA	C-N-CD	-14.22	89.31	120.60
3	BO	131	PRO	CA-N-CD	-13.87	92.08	111.50
3	BP	57	LEU	C-N-CD	-13.44	91.04	120.60
3	BL	64	ASP	CA-C-N	-13.22	88.12	117.20
3	BJ	64	ASP	CA-C-N	-13.21	88.14	117.20
1	AB	451	ASP	C-N-CD	-13.15	91.67	120.60
3	BF	316	SER	O-C-N	12.64	142.92	122.70
3	BK	121	TYR	O-C-N	-12.18	103.22	122.70
3	BM	121	TYR	O-C-N	-12.16	103.25	122.70
3	BN	121	TYR	O-C-N	-12.15	103.25	122.70
3	BO	121	TYR	O-C-N	-12.14	103.27	122.70
3	BA	121	TYR	O-C-N	-12.14	103.28	122.70
3	BI	121	TYR	O-C-N	-12.13	103.29	122.70
3	BJ	121	TYR	O-C-N	-12.13	103.29	122.70
3	BP	121	TYR	O-C-N	-12.13	103.29	122.70
3	BH	121	TYR	O-C-N	-12.13	103.30	122.70
3	BQ	121	TYR	O-C-N	-12.13	103.30	122.70
3	BG	121	TYR	O-C-N	-12.12	103.30	122.70
3	BF	121	TYR	O-C-N	-12.12	103.31	122.70
3	BL	121	TYR	O-C-N	-12.11	103.32	122.70
3	BK	268	VAL	CB-CA-C	12.08	134.36	111.40
3	BG	71	THR	CA-CB-CG2	12.08	129.31	112.40
3	BA	145	ASP	C-N-CA	11.82	151.24	121.70
3	BA	116	VAL	CA-CB-CG1	-11.81	93.19	110.90
3	BI	323	TYR	C-N-CA	11.57	150.62	121.70
4	BY	485	THR	CA-CB-OG1	-11.43	85.00	109.00
3	BG	174	TYR	CB-CG-CD2	10.97	127.58	121.00
3	BM	172	LEU	O-C-N	-10.62	105.71	122.70
3	BJ	172	LEU	O-C-N	-10.61	105.73	122.70
3	BA	172	LEU	O-C-N	-10.59	105.76	122.70
3	BO	172	LEU	O-C-N	-10.59	105.76	122.70
3	BP	172	LEU	O-C-N	-10.58	105.77	122.70
3	BK	172	LEU	O-C-N	-10.58	105.77	122.70
3	BQ	172	LEU	O-C-N	-10.58	105.77	122.70
3	BI	172	LEU	O-C-N	-10.58	105.78	122.70
3	BF	172	LEU	O-C-N	-10.57	105.79	122.70
3	BI	266	SER	C-N-CA	-10.56	95.30	121.70
3	BL	271	ILE	C-N-CA	-10.38	95.74	121.70
3	BN	266	SER	CB-CA-C	10.03	129.16	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BJ	57	LEU	CB-CA-C	10.00	129.21	110.20
3	BH	258	VAL	CA-C-N	-9.92	95.38	117.20
3	BP	258	VAL	CA-C-N	-9.90	95.41	117.20
3	BI	258	VAL	CA-C-N	-9.90	95.42	117.20
3	BM	258	VAL	CA-C-N	-9.89	95.44	117.20
3	BO	258	VAL	CA-C-N	-9.89	95.44	117.20
3	BJ	258	VAL	CA-C-N	-9.88	95.45	117.20
3	BF	258	VAL	CA-C-N	-9.88	95.46	117.20
3	BK	258	VAL	CA-C-N	-9.88	95.46	117.20
3	BA	258	VAL	CA-C-N	-9.88	95.46	117.20
3	BQ	258	VAL	CA-C-N	-9.88	95.47	117.20
3	BG	258	VAL	CA-C-N	-9.87	95.49	117.20
3	BF	316	SER	CA-C-N	-9.60	96.08	117.20
3	BN	55	ILE	CA-C-N	-9.59	96.11	117.20
3	BI	315	ARG	O-C-N	-9.56	107.41	122.70
3	BK	266	SER	CB-CA-C	9.32	127.80	110.10
3	BL	57	LEU	C-N-CD	-9.27	100.20	120.60
1	AB	273	TYR	CB-CG-CD1	9.20	126.52	121.00
1	AB	273	TYR	CB-CG-CD2	-9.16	115.50	121.00
3	BO	172	LEU	CA-C-N	9.04	137.09	117.20
3	BM	172	LEU	CA-C-N	9.04	137.08	117.20
3	BP	172	LEU	CA-C-N	9.02	137.05	117.20
3	BJ	172	LEU	CA-C-N	9.02	137.05	117.20
3	BA	172	LEU	CA-C-N	9.02	137.03	117.20
3	BK	172	LEU	CA-C-N	9.02	137.04	117.20
3	BF	172	LEU	CA-C-N	9.02	137.03	117.20
3	BI	172	LEU	CA-C-N	9.02	137.03	117.20
3	BQ	172	LEU	CA-C-N	8.99	136.97	117.20
3	BP	258	VAL	O-C-N	8.97	137.06	122.70
3	BM	258	VAL	O-C-N	8.96	137.03	122.70
3	BH	258	VAL	O-C-N	8.95	137.03	122.70
3	BK	258	VAL	O-C-N	8.95	137.01	122.70
3	BH	266	SER	N-CA-C	-8.94	86.85	111.00
3	BG	70	SER	C-N-CA	8.94	144.04	121.70
3	BI	258	VAL	O-C-N	8.93	136.99	122.70
3	BQ	258	VAL	O-C-N	8.93	136.99	122.70
3	BA	258	VAL	O-C-N	8.92	136.98	122.70
3	BJ	258	VAL	O-C-N	8.92	136.98	122.70
3	BF	258	VAL	O-C-N	8.91	136.95	122.70
3	BG	258	VAL	O-C-N	8.90	136.93	122.70
3	BO	258	VAL	O-C-N	8.87	136.90	122.70
3	BA	266	SER	N-CA-C	-8.86	87.09	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BP	268	VAL	N-CA-C	-8.69	87.55	111.00
3	BG	121	TYR	CA-C-N	8.68	136.29	117.20
3	BN	121	TYR	CA-C-N	8.68	136.29	117.20
3	BQ	268	VAL	N-CA-C	-8.68	87.57	111.00
3	BK	121	TYR	CA-C-N	8.67	136.28	117.20
3	BL	121	TYR	CA-C-N	8.67	136.28	117.20
3	BI	121	TYR	CA-C-N	8.67	136.27	117.20
3	BH	121	TYR	CA-C-N	8.66	136.26	117.20
3	BQ	121	TYR	CA-C-N	8.66	136.26	117.20
3	BA	121	TYR	CA-C-N	8.66	136.25	117.20
3	BF	121	TYR	CA-C-N	8.65	136.23	117.20
3	BO	121	TYR	CA-C-N	8.64	136.22	117.20
3	BJ	121	TYR	CA-C-N	8.64	136.21	117.20
3	BM	121	TYR	CA-C-N	8.64	136.20	117.20
3	BP	121	TYR	CA-C-N	8.64	136.20	117.20
3	BH	164	LEU	CB-CA-C	8.55	126.44	110.20
3	BI	164	LEU	CB-CA-C	8.54	126.42	110.20
3	BL	164	LEU	CB-CA-C	8.53	126.41	110.20
3	BP	164	LEU	CB-CA-C	8.52	126.39	110.20
3	BO	164	LEU	CB-CA-C	8.52	126.38	110.20
3	BP	266	SER	N-CA-C	-8.51	88.01	111.00
3	BM	164	LEU	CB-CA-C	8.51	126.37	110.20
3	BQ	266	SER	N-CA-C	-8.51	88.03	111.00
3	BJ	164	LEU	CB-CA-C	8.51	126.36	110.20
3	BA	164	LEU	CB-CA-C	8.51	126.36	110.20
3	BG	164	LEU	CB-CA-C	8.50	126.35	110.20
3	BK	164	LEU	CB-CA-C	8.49	126.33	110.20
3	BO	266	SER	N-CA-C	-8.49	88.08	111.00
3	BF	164	LEU	CB-CA-C	8.49	126.33	110.20
3	BQ	164	LEU	CB-CA-C	8.47	126.30	110.20
1	AB	452	PRO	O-C-N	-8.36	109.32	122.70
3	BJ	266	SER	N-CA-C	-8.18	88.92	111.00
3	BI	58	PRO	CA-N-CD	-8.10	100.17	111.50
3	BA	80	THR	CA-C-N	8.02	134.85	117.20
3	BG	246	ILE	CA-CB-CG2	-7.96	94.98	110.90
3	BM	246	ILE	CA-CB-CG2	-7.95	95.00	110.90
3	BH	246	ILE	CA-CB-CG2	-7.95	95.01	110.90
3	BJ	246	ILE	CA-CB-CG2	-7.95	95.01	110.90
3	BL	246	ILE	CA-CB-CG2	-7.95	95.01	110.90
3	BP	246	ILE	CA-CB-CG2	-7.95	95.01	110.90
3	BA	246	ILE	CA-CB-CG2	-7.93	95.03	110.90
3	BO	246	ILE	CA-CB-CG2	-7.93	95.03	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BQ	246	ILE	CA-CB-CG2	-7.93	95.03	110.90
3	BN	246	ILE	CA-CB-CG2	-7.93	95.04	110.90
3	BF	246	ILE	CA-CB-CG2	-7.93	95.05	110.90
1	AB	273	TYR	CA-CB-CG	7.92	128.45	113.40
3	BN	263	VAL	CA-C-N	-7.91	100.37	116.20
3	BI	246	ILE	CA-CB-CG2	-7.91	95.08	110.90
3	BF	263	VAL	CA-C-N	-7.91	100.39	116.20
3	BP	263	VAL	CA-C-N	-7.91	100.39	116.20
3	BK	246	ILE	CA-CB-CG2	-7.90	95.09	110.90
3	BI	263	VAL	CA-C-N	-7.88	100.43	116.20
3	BA	263	VAL	CA-C-N	-7.88	100.44	116.20
3	BK	263	VAL	CA-C-N	-7.88	100.44	116.20
3	BI	315	ARG	CA-C-N	7.88	134.53	117.20
3	BJ	263	VAL	CA-C-N	-7.86	100.47	116.20
3	BH	263	VAL	CA-C-N	-7.86	100.49	116.20
3	BO	263	VAL	CA-C-N	-7.85	100.50	116.20
3	BQ	263	VAL	CA-C-N	-7.85	100.51	116.20
3	BG	144	TYR	CB-CG-CD2	7.70	125.62	121.00
3	BG	131	PRO	CA-N-CD	-7.68	100.75	111.50
3	BP	60	THR	C-N-CA	-7.63	106.27	122.30
3	BA	266	SER	C-N-CA	-7.62	102.64	121.70
3	BP	317	LEU	O-C-N	7.61	134.87	122.70
4	BX	39	PRO	C-N-CA	7.58	140.64	121.70
3	BI	55	ILE	O-C-N	7.57	134.80	122.70
3	BF	69	ASN	CA-C-N	-7.54	100.61	117.20
3	BK	53	TYR	C-N-CA	-7.47	106.62	122.30
3	BH	151	ASP	O-C-N	7.43	134.59	122.70
3	BN	151	ASP	O-C-N	7.42	134.57	122.70
3	BQ	151	ASP	O-C-N	7.42	134.57	122.70
3	BI	151	ASP	O-C-N	7.41	134.56	122.70
3	BL	151	ASP	O-C-N	7.41	134.56	122.70
3	BA	151	ASP	O-C-N	7.40	134.54	122.70
3	BM	151	ASP	O-C-N	7.39	134.53	122.70
3	BP	151	ASP	O-C-N	7.39	134.52	122.70
3	BF	69	ASN	C-N-CA	7.38	140.16	121.70
3	BK	151	ASP	O-C-N	7.38	134.51	122.70
3	BG	151	ASP	O-C-N	7.38	134.50	122.70
3	BJ	151	ASP	O-C-N	7.37	134.49	122.70
3	BO	151	ASP	O-C-N	7.36	134.48	122.70
3	BK	57	LEU	CB-CA-C	-7.33	96.28	110.20
1	AA	639	LYS	N-CA-C	-7.30	91.29	111.00
3	BI	266	SER	N-CA-C	-7.26	91.39	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BI	313	ARG	CA-C-N	-7.24	101.27	117.20
3	BA	61	GLY	O-C-N	-7.04	111.43	122.70
3	BK	268	VAL	N-CA-C	-7.02	92.05	111.00
1	AA	453	GLN	N-CA-C	-6.99	92.14	111.00
3	BH	69	ASN	CA-C-N	-6.97	101.87	117.20
3	BP	321	ALA	N-CA-C	-6.94	92.26	111.00
3	BO	266	SER	C-N-CA	-6.87	104.54	121.70
3	BH	266	SER	C-N-CA	-6.84	104.59	121.70
3	BF	64	ASP	CB-CA-C	6.82	124.04	110.40
2	AF	384	ARG	NE-CZ-NH2	6.79	123.69	120.30
3	BP	64	ASP	O-C-N	6.78	133.54	122.70
2	AD	236	ARG	NE-CZ-NH2	6.74	123.67	120.30
2	AG	236	ARG	NE-CZ-NH2	6.73	123.67	120.30
3	BI	56	ASN	CB-CA-C	-6.73	96.94	110.40
3	BK	264	GLY	CA-C-N	-6.71	102.77	116.20
2	AC	384	ARG	NE-CZ-NH2	6.70	123.65	120.30
3	BK	57	LEU	N-CA-C	6.69	129.06	111.00
2	AO	384	ARG	NE-CZ-NH2	6.67	123.64	120.30
2	AJ	384	ARG	NE-CZ-NH2	6.63	123.62	120.30
2	AG	71	LEU	CB-CA-C	6.63	122.80	110.20
2	AI	384	ARG	NE-CZ-NH2	6.62	123.61	120.30
3	BP	131	PRO	CA-N-CD	-6.57	102.31	111.50
3	BP	258	VAL	C-N-CA	-6.56	105.30	121.70
3	BI	258	VAL	C-N-CA	-6.56	105.31	121.70
3	BP	317	LEU	CA-C-N	-6.56	102.78	117.20
3	BG	71	THR	CA-CB-OG1	6.55	122.76	109.00
3	BM	258	VAL	C-N-CA	-6.55	105.33	121.70
3	BJ	258	VAL	C-N-CA	-6.54	105.34	121.70
3	BO	258	VAL	C-N-CA	-6.54	105.34	121.70
4	BX	694	ARG	N-CA-C	-6.54	93.33	111.00
3	BH	258	VAL	C-N-CA	-6.54	105.35	121.70
3	BK	258	VAL	C-N-CA	-6.54	105.36	121.70
3	BA	258	VAL	C-N-CA	-6.53	105.37	121.70
3	BQ	258	VAL	C-N-CA	-6.53	105.37	121.70
3	BA	80	THR	CA-C-O	-6.52	106.41	120.10
2	AM	236	ARG	NE-CZ-NH2	6.51	123.56	120.30
3	BF	258	VAL	C-N-CA	-6.51	105.42	121.70
3	BG	258	VAL	C-N-CA	-6.51	105.42	121.70
2	AJ	236	ARG	NE-CZ-NH2	6.50	123.55	120.30
2	AC	283	ARG	NE-CZ-NH2	6.50	123.55	120.30
2	AM	384	ARG	NE-CZ-NH2	6.49	123.55	120.30
2	AH	384	ARG	NE-CZ-NH2	6.49	123.55	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AL	384	ARG	NE-CZ-NH2	6.48	123.54	120.30
3	BG	174	TYR	CA-CB-CG	6.48	125.72	113.40
3	BK	64	ASP	O-C-N	6.48	133.07	122.70
2	AN	384	ARG	NE-CZ-NH2	6.48	123.54	120.30
1	AA	472	LEU	CA-CB-CG	-6.47	100.41	115.30
1	AB	273	TYR	CB-CA-C	-6.45	97.50	110.40
2	AI	283	ARG	NE-CZ-NH2	6.44	123.52	120.30
2	AL	283	ARG	NE-CZ-NH2	6.44	123.52	120.30
2	AG	283	ARG	NE-CZ-NH2	6.43	123.52	120.30
2	AG	384	ARG	NE-CZ-NH2	6.42	123.51	120.30
2	AD	384	ARG	NE-CZ-NH2	6.41	123.50	120.30
3	BP	64	ASP	CA-C-N	-6.41	103.10	117.20
2	AK	384	ARG	NE-CZ-NH2	6.40	123.50	120.30
2	AG	71	LEU	C-N-CA	6.38	137.65	121.70
2	AK	236	ARG	NE-CZ-NH2	6.38	123.49	120.30
2	AE	384	ARG	NE-CZ-NH2	6.34	123.47	120.30
2	AM	283	ARG	NE-CZ-NH2	6.34	123.47	120.30
2	AF	283	ARG	NE-CZ-NH2	6.33	123.47	120.30
3	BL	55	ILE	CB-CA-C	-6.33	98.94	111.60
2	AO	283	ARG	NE-CZ-NH2	6.32	123.46	120.30
2	AE	236	ARG	NE-CZ-NH2	6.31	123.46	120.30
3	BK	64	ASP	CA-C-N	-6.31	103.32	117.20
2	AO	236	ARG	NE-CZ-NH2	6.30	123.45	120.30
3	BP	319	SER	CB-CA-C	-6.29	98.15	110.10
3	BJ	263	VAL	C-N-CA	6.28	135.48	122.30
3	BQ	263	VAL	C-N-CA	6.27	135.47	122.30
3	BH	263	VAL	C-N-CA	6.26	135.44	122.30
3	BI	263	VAL	C-N-CA	6.25	135.43	122.30
3	BA	263	VAL	C-N-CA	6.25	135.42	122.30
3	BK	263	VAL	C-N-CA	6.25	135.42	122.30
2	AJ	283	ARG	NE-CZ-NH2	6.24	123.42	120.30
3	BI	56	ASN	N-CA-C	6.24	127.86	111.00
3	BO	263	VAL	C-N-CA	6.24	135.41	122.30
3	BF	263	VAL	C-N-CA	6.24	135.41	122.30
3	BI	312	LYS	CA-C-N	-6.24	103.48	117.20
3	BM	253	GLY	C-N-CD	-6.23	106.90	120.60
3	BN	263	VAL	C-N-CA	6.22	135.36	122.30
3	BP	263	VAL	C-N-CA	6.21	135.34	122.30
3	BG	174	TYR	CB-CG-CD1	-6.19	117.28	121.00
1	AA	698	LYS	O-C-N	6.18	132.59	122.70
2	AD	283	ARG	NE-CZ-NH2	6.18	123.39	120.30
2	AN	236	ARG	NE-CZ-NH2	6.18	123.39	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BJ	65	THR	O-C-N	-6.17	112.82	122.70
3	BQ	223	LYS	CD-CE-NZ	6.17	125.90	111.70
3	BH	223	LYS	CD-CE-NZ	6.17	125.89	111.70
2	AE	283	ARG	NE-CZ-NH2	6.16	123.38	120.30
3	BI	223	LYS	CD-CE-NZ	6.16	125.88	111.70
3	BM	223	LYS	CD-CE-NZ	6.16	125.86	111.70
3	BG	223	LYS	CD-CE-NZ	6.15	125.86	111.70
3	BJ	223	LYS	CD-CE-NZ	6.15	125.85	111.70
3	BF	223	LYS	CD-CE-NZ	6.15	125.85	111.70
3	BA	223	LYS	CD-CE-NZ	6.15	125.85	111.70
3	BN	223	LYS	CD-CE-NZ	6.15	125.84	111.70
2	AH	69	THR	O-C-N	-6.14	112.87	122.70
3	BK	223	LYS	CD-CE-NZ	6.14	125.82	111.70
3	BN	55	ILE	O-C-N	6.14	132.52	122.70
2	AH	236	ARG	NE-CZ-NH2	6.13	123.36	120.30
3	BP	223	LYS	CD-CE-NZ	6.13	125.80	111.70
3	BG	174	TYR	CB-CA-C	6.13	122.66	110.40
3	BL	223	LYS	CD-CE-NZ	6.13	125.79	111.70
2	AI	236	ARG	NE-CZ-NH2	6.12	123.36	120.30
2	AK	283	ARG	NE-CZ-NH2	6.12	123.36	120.30
2	AC	236	ARG	NE-CZ-NH2	6.09	123.34	120.30
3	BI	55	ILE	CA-C-N	-6.09	103.80	117.20
3	BL	290	LYS	CB-CA-C	6.08	122.55	110.40
3	BM	245	THR	CA-CB-OG1	-6.06	96.28	109.00
1	AA	241	TYR	C-N-CD	-6.06	107.28	120.60
1	AA	177	MET	CB-CA-C	6.05	122.51	110.40
3	BN	245	THR	CA-CB-OG1	-6.05	96.28	109.00
3	BO	290	LYS	CB-CA-C	6.05	122.51	110.40
3	BH	245	THR	CA-CB-OG1	-6.05	96.30	109.00
3	BF	290	LYS	CB-CA-C	6.05	122.50	110.40
3	BQ	245	THR	CA-CB-OG1	-6.05	96.30	109.00
3	BO	313	ARG	CB-CA-C	6.04	122.49	110.40
3	BF	245	THR	CA-CB-OG1	-6.04	96.31	109.00
2	AF	236	ARG	NE-CZ-NH2	6.04	123.32	120.30
2	AN	283	ARG	NE-CZ-NH2	6.04	123.32	120.30
3	BJ	245	THR	CA-CB-OG1	-6.04	96.32	109.00
3	BK	245	THR	CA-CB-OG1	-6.04	96.32	109.00
3	BL	245	THR	CA-CB-OG1	-6.03	96.34	109.00
3	BA	245	THR	CA-CB-OG1	-6.03	96.34	109.00
3	BI	245	THR	CA-CB-OG1	-6.02	96.35	109.00
2	AL	236	ARG	NE-CZ-NH2	6.02	123.31	120.30
3	BG	245	THR	CA-CB-OG1	-6.02	96.36	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BO	245	THR	CA-CB-OG1	-6.01	96.37	109.00
3	BP	245	THR	CA-CB-OG1	-6.01	96.38	109.00
3	BN	266	SER	C-N-CA	-6.00	106.71	121.70
3	BA	175	TYR	CB-CA-C	-5.97	98.45	110.40
3	BO	267	ASP	N-CA-C	5.95	127.08	111.00
1	AB	516	GLN	CB-CA-C	5.95	122.30	110.40
3	BL	65	THR	O-C-N	-5.92	113.23	122.70
1	AA	274	ILE	C-N-CD	-5.91	107.60	120.60
2	AH	283	ARG	NE-CZ-NH2	5.87	123.23	120.30
3	BP	319	SER	N-CA-C	5.87	126.83	111.00
2	AL	300	MET	CG-SD-CE	5.84	109.55	100.20
2	AC	300	MET	CG-SD-CE	5.83	109.53	100.20
3	BN	244	CYS	CA-CB-SG	-5.83	103.50	114.00
3	BL	244	CYS	CA-CB-SG	-5.83	103.51	114.00
3	BF	244	CYS	CA-CB-SG	-5.82	103.53	114.00
3	BA	244	CYS	CA-CB-SG	-5.81	103.54	114.00
3	BK	244	CYS	CA-CB-SG	-5.81	103.54	114.00
3	BQ	244	CYS	CA-CB-SG	-5.81	103.54	114.00
3	BJ	244	CYS	CA-CB-SG	-5.80	103.55	114.00
2	AI	300	MET	CG-SD-CE	5.80	109.48	100.20
3	BI	244	CYS	CA-CB-SG	-5.80	103.56	114.00
3	BO	244	CYS	CA-CB-SG	-5.80	103.56	114.00
3	BM	244	CYS	CA-CB-SG	-5.80	103.56	114.00
3	BP	244	CYS	CA-CB-SG	-5.80	103.56	114.00
3	BH	244	CYS	CA-CB-SG	-5.80	103.56	114.00
2	AF	300	MET	CG-SD-CE	5.79	109.47	100.20
3	BF	266	SER	N-CA-C	-5.79	95.36	111.00
3	BG	244	CYS	CA-CB-SG	-5.79	103.58	114.00
2	AO	300	MET	CG-SD-CE	5.79	109.46	100.20
3	BH	151	ASP	CA-C-N	-5.78	104.49	117.20
3	BK	173	TYR	O-C-N	5.78	131.94	122.70
3	BL	72	GLN	CA-CB-CG	-5.78	100.69	113.40
3	BH	72	GLN	CA-CB-CG	-5.76	100.72	113.40
3	BG	151	ASP	CA-C-N	-5.76	104.52	117.20
3	BQ	72	GLN	CA-CB-CG	-5.76	100.72	113.40
2	AJ	300	MET	CG-SD-CE	5.76	109.42	100.20
3	BL	151	ASP	CA-C-N	-5.76	104.53	117.20
3	BL	64	ASP	C-N-CA	-5.76	107.31	121.70
2	AD	300	MET	CG-SD-CE	5.75	109.41	100.20
3	BG	72	GLN	CA-CB-CG	-5.75	100.74	113.40
3	BA	151	ASP	CA-C-N	-5.75	104.55	117.20
3	BN	151	ASP	CA-C-N	-5.75	104.55	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BK	72	GLN	CA-CB-CG	-5.75	100.75	113.40
3	BM	72	GLN	CA-CB-CG	-5.75	100.75	113.40
3	BO	72	GLN	CA-CB-CG	-5.75	100.75	113.40
3	BO	151	ASP	CA-C-N	-5.75	104.55	117.20
3	BF	72	GLN	CA-CB-CG	-5.75	100.76	113.40
3	BI	151	ASP	CA-C-N	-5.75	104.56	117.20
3	BJ	151	ASP	CA-C-N	-5.75	104.56	117.20
3	BQ	151	ASP	CA-C-N	-5.75	104.56	117.20
3	BP	72	GLN	CA-CB-CG	-5.75	100.76	113.40
3	BP	151	ASP	CA-C-N	-5.75	104.56	117.20
3	BJ	64	ASP	C-N-CA	-5.74	107.34	121.70
3	BJ	72	GLN	CA-CB-CG	-5.74	100.77	113.40
3	BL	65	THR	CA-C-O	5.74	132.16	120.10
3	BM	151	ASP	CA-C-N	-5.74	104.57	117.20
2	AG	300	MET	CG-SD-CE	5.74	109.38	100.20
3	BJ	65	THR	CA-C-O	5.72	132.11	120.10
3	BJ	173	TYR	O-C-N	5.72	131.85	122.70
3	BK	151	ASP	CA-C-N	-5.72	104.61	117.20
3	BN	72	GLN	CA-CB-CG	-5.72	100.82	113.40
3	BN	53	TYR	C-N-CA	-5.71	110.31	122.30
2	AM	300	MET	CG-SD-CE	5.71	109.33	100.20
3	BO	173	TYR	O-C-N	5.70	131.81	122.70
1	AA	719	GLY	N-CA-C	-5.69	98.87	113.10
3	BI	173	TYR	O-C-N	5.68	131.79	122.70
3	BI	323	TYR	CA-C-N	-5.68	104.70	117.20
3	BP	173	TYR	O-C-N	5.68	131.79	122.70
3	BA	175	TYR	N-CA-C	5.68	126.33	111.00
2	AK	300	MET	CG-SD-CE	5.66	109.25	100.20
2	AN	300	MET	CG-SD-CE	5.66	109.25	100.20
2	AH	300	MET	CG-SD-CE	5.65	109.24	100.20
2	AE	300	MET	CG-SD-CE	5.63	109.21	100.20
1	AB	497	ILE	N-CA-C	-5.62	95.83	111.00
1	AB	472	LEU	CA-CB-CG	-5.61	102.40	115.30
3	BO	64	ASP	CA-C-N	-5.59	104.89	117.20
3	BH	175	TYR	CB-CG-CD1	5.53	124.32	121.00
3	BJ	274	ASP	CB-CA-C	5.52	121.45	110.40
3	BI	267	ASP	CB-CA-C	-5.52	99.36	110.40
3	BP	274	ASP	CB-CA-C	5.52	121.43	110.40
3	BQ	274	ASP	CB-CA-C	5.51	121.43	110.40
3	BF	312	LYS	C-N-CA	5.51	135.47	121.70
3	BJ	57	LEU	N-CA-C	-5.50	96.16	111.00
3	BO	274	ASP	CB-CA-C	5.49	121.39	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BA	274	ASP	CB-CA-C	5.49	121.38	110.40
3	BI	274	ASP	CB-CA-C	5.49	121.38	110.40
3	BM	274	ASP	CB-CA-C	5.49	121.38	110.40
3	BF	274	ASP	CB-CA-C	5.49	121.37	110.40
3	BG	274	ASP	CB-CA-C	5.49	121.37	110.40
3	BH	274	ASP	CB-CA-C	5.48	121.37	110.40
3	BK	274	ASP	CB-CA-C	5.48	121.36	110.40
3	BL	274	ASP	CB-CA-C	5.48	121.36	110.40
3	BO	56	ASN	CB-CA-C	5.47	121.34	110.40
3	BN	266	SER	N-CA-C	-5.46	96.25	111.00
3	BN	274	ASP	CB-CA-C	5.46	121.32	110.40
4	BZ	603	SER	N-CA-C	5.46	125.75	111.00
1	AA	698	LYS	C-N-CA	-5.45	108.08	121.70
3	BK	319	SER	CB-CA-C	-5.45	99.75	110.10
3	BG	263	VAL	CA-C-N	-5.44	105.32	116.20
3	BO	64	ASP	O-C-N	5.43	131.39	122.70
3	BO	319	SER	CB-CA-C	-5.42	99.79	110.10
4	BX	257	SER	CA-CB-OG	-5.42	96.55	111.20
4	BY	736	ILE	CB-CA-C	-5.40	100.80	111.60
1	AA	698	LYS	CA-C-N	-5.38	105.35	117.20
4	BY	483	PRO	N-CA-C	5.37	126.07	112.10
3	BN	145	ASP	CB-CA-C	5.37	121.13	110.40
3	BN	55	ILE	CA-C-O	5.36	131.36	120.10
3	BK	145	ASP	CB-CA-C	5.34	121.08	110.40
3	BN	55	ILE	C-N-CA	5.34	135.05	121.70
3	BO	145	ASP	CB-CA-C	5.34	121.08	110.40
3	BP	145	ASP	CB-CA-C	5.34	121.08	110.40
3	BH	145	ASP	CB-CA-C	5.34	121.08	110.40
3	BF	145	ASP	CB-CA-C	5.34	121.07	110.40
3	BJ	145	ASP	CB-CA-C	5.33	121.07	110.40
4	BY	486	ASN	N-CA-CB	5.32	120.17	110.60
2	AJ	342	MET	CG-SD-CE	5.30	108.68	100.20
2	AM	342	MET	CG-SD-CE	5.29	108.66	100.20
3	BA	61	GLY	CA-C-N	5.28	128.83	117.20
2	AG	342	MET	CG-SD-CE	5.28	108.65	100.20
2	AD	342	MET	CG-SD-CE	5.28	108.64	100.20
4	BY	496	ARG	O-C-N	5.27	131.13	122.70
3	BN	131	PRO	C-N-CA	-5.25	108.56	121.70
2	AH	342	MET	CG-SD-CE	5.25	108.60	100.20
3	BF	69	ASN	O-C-N	5.25	131.10	122.70
2	AE	342	MET	CG-SD-CE	5.24	108.59	100.20
3	BN	69	ASN	CA-C-N	-5.24	105.67	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AK	342	MET	CG-SD-CE	5.23	108.57	100.20
3	BL	263	VAL	CA-C-N	-5.23	105.74	116.20
3	BI	58	PRO	N-CA-C	5.22	125.67	112.10
3	BP	263	VAL	O-C-N	5.22	132.07	123.20
3	BK	263	VAL	O-C-N	5.21	132.06	123.20
3	BN	263	VAL	O-C-N	5.21	132.06	123.20
2	AN	342	MET	CG-SD-CE	5.21	108.54	100.20
1	AA	360	ILE	C-N-CA	5.21	134.72	121.70
3	BF	253	GLY	C-N-CD	-5.20	109.17	120.60
1	AA	367	LEU	N-CA-C	-5.19	96.98	111.00
3	BA	64	ASP	N-CA-C	-5.19	96.98	111.00
3	BF	263	VAL	O-C-N	5.19	132.02	123.20
2	AO	342	MET	CG-SD-CE	5.18	108.49	100.20
4	BY	601	VAL	CB-CA-C	-5.18	101.55	111.40
3	BI	263	VAL	O-C-N	5.18	132.01	123.20
3	BG	254	PRO	N-CD-CG	-5.18	95.43	103.20
3	BP	59	ILE	CB-CA-C	5.18	121.96	111.60
2	AI	342	MET	CG-SD-CE	5.18	108.48	100.20
3	BA	263	VAL	O-C-N	5.18	132.00	123.20
2	AL	342	MET	CG-SD-CE	5.17	108.48	100.20
2	AC	342	MET	CG-SD-CE	5.17	108.48	100.20
3	BQ	263	VAL	O-C-N	5.16	131.98	123.20
3	BO	263	VAL	O-C-N	5.16	131.97	123.20
2	AF	342	MET	CG-SD-CE	5.16	108.45	100.20
2	AH	69	THR	C-N-CA	5.15	134.58	121.70
2	AH	63	PHE	CB-CG-CD1	-5.15	117.19	120.80
3	BJ	263	VAL	O-C-N	5.15	131.95	123.20
3	BF	265	GLY	C-N-CA	5.14	134.55	121.70
3	BH	69	ASN	O-C-N	5.14	130.93	122.70
3	BH	263	VAL	O-C-N	5.14	131.94	123.20
3	BL	319	SER	C-N-CA	5.13	134.53	121.70
3	BL	265	GLY	C-N-CA	5.12	134.50	121.70
4	BY	273	ILE	CA-C-N	-5.11	105.96	117.20
3	BK	266	SER	N-CA-C	-5.10	97.23	111.00
1	AB	503	VAL	CB-CA-C	-5.10	101.71	111.40
3	BP	51	GLN	CA-C-N	-5.08	106.01	117.20
3	BI	267	ASP	N-CA-C	5.08	124.72	111.00
3	BH	253	GLY	C-N-CD	-5.08	109.43	120.60
4	BY	405	HIS	O-C-N	-5.07	114.59	122.70
3	BF	68	ALA	CB-CA-C	-5.06	102.51	110.10
3	BL	266	SER	N-CA-C	-5.04	97.38	111.00
3	BO	69	ASN	CA-C-N	-5.04	106.12	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	BQ	264	GLY	CA-C-N	-5.03	106.14	116.20
2	AG	71	LEU	CA-C-N	5.03	128.26	117.20
3	BP	51	GLN	C-N-CA	5.01	134.22	121.70
3	BH	264	GLY	CA-C-N	-5.01	106.19	116.20
3	BJ	264	GLY	CA-C-N	-5.00	106.19	116.20
3	BP	264	GLY	CA-C-N	-5.00	106.19	116.20

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AB	452	PRO	Mainchain

5.2 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 the 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 within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	6379	0	6408	1177	0
1	AB	6545	0	6569	1213	0
2	AC	3163	0	3112	246	0
2	AD	3163	0	3111	207	0
2	AE	3163	0	3110	229	0
2	AF	3163	0	3112	167	0
2	AG	3163	0	3111	249	0
2	AH	3163	0	3111	270	0
2	AI	3163	0	3111	265	0
2	AJ	3163	0	3112	226	0
2	AK	3163	0	3112	227	0
2	AL	3163	0	3112	244	0
2	AM	3163	0	3111	206	0
2	AN	3163	0	3111	208	0
2	AO	3163	0	3112	143	0
3	BA	2011	0	1955	287	0
3	BF	2072	0	2019	461	0
3	BG	2160	0	2095	511	0
3	BH	2011	0	1954	418	0
3	BI	2160	0	2095	441	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	BJ	2171	0	2109	538	0
3	BK	2117	0	2064	471	0
3	BL	2148	0	2087	510	0
3	BM	2011	0	1956	442	0
3	BN	2179	0	2120	519	0
3	BO	2171	0	2108	537	0
3	BP	2157	0	2095	526	0
3	BQ	2011	0	1953	401	0
4	BX	5783	0	5650	1001	0
4	BY	5809	0	5668	1166	0
4	BZ	4058	0	4001	777	0
5	A	28	0	25	2	0
5	B	28	0	25	4	0
5	C	28	0	25	4	0
5	D	28	0	25	2	0
5	E	28	0	25	3	0
5	F	28	0	25	3	0
5	G	28	0	25	0	0
6	AC	1	0	0	0	0
6	AF	1	0	0	0	0
6	AK	1	0	0	0	0
6	AN	1	0	0	0	0
6	AO	1	0	0	0	0
7	BM	14	0	13	4	0
All	All	97287	0	95542	12547	0

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 65.

All (12547) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:116:VAL:CG1	3:BA:116:VAL:CB	1.80	1.58
4:BX:32:ASN:HB3	4:BY:484:ILE:CG2	1.33	1.58
3:BI:69:ASN:HD21	5:D:1:NAG:C1	1.11	1.55
2:AE:203:ALA:CB	4:BY:775:ARG:HH12	1.15	1.55
3:BN:174:TYR:CD2	3:BN:198:LEU:HD11	1.43	1.53
3:BG:271:ILE:CD1	3:BG:279:PRO:HG2	1.37	1.50
2:AG:202:PRO:CG	4:BZ:577:ARG:HH21	1.22	1.50
4:BY:485:THR:CB	4:BY:485:THR:CG2	1.88	1.49
3:BG:316:SER:CB	3:BO:324:TYR:HB3	1.42	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:324:TYR:CD2	3:BN:326:ILE:HG22	1.49	1.48
2:AC:239:ASN:HB2	3:BG:67:TYR:CZ	1.47	1.47
3:BO:229:VAL:HG11	3:BO:235:HIS:CE1	1.50	1.47
3:BF:315:ARG:CZ	3:BF:317:LEU:HD22	1.45	1.46
3:BA:229:VAL:HG11	3:BA:235:HIS:CE1	1.50	1.46
3:BI:229:VAL:HG11	3:BI:235:HIS:CE1	1.50	1.46
3:BQ:229:VAL:HG11	3:BQ:235:HIS:CE1	1.50	1.46
3:BL:82:CYS:HB2	3:BL:135:CYS:SG	1.56	1.45
3:BO:82:CYS:HB2	3:BO:135:CYS:SG	1.56	1.45
4:BY:264:GLU:CG	4:BY:473:LEU:HD21	1.41	1.45
3:BG:82:CYS:HB2	3:BG:135:CYS:SG	1.56	1.45
3:BJ:229:VAL:HG11	3:BJ:235:HIS:CE1	1.50	1.45
3:BM:229:VAL:HG11	3:BM:235:HIS:CE1	1.50	1.45
3:BJ:82:CYS:HB2	3:BJ:135:CYS:SG	1.56	1.44
3:BF:229:VAL:HG11	3:BF:235:HIS:CE1	1.50	1.44
3:BI:82:CYS:HB2	3:BI:135:CYS:SG	1.57	1.44
3:BL:229:VAL:HG11	3:BL:235:HIS:CE1	1.50	1.44
2:AK:145:ARG:CD	2:AL:143:ASN:HA	1.45	1.44
3:BN:82:CYS:HB2	3:BN:135:CYS:SG	1.56	1.44
3:BG:229:VAL:HG11	3:BG:235:HIS:CE1	1.50	1.44
3:BP:229:VAL:HG11	3:BP:235:HIS:CE1	1.50	1.44
3:BA:82:CYS:HB2	3:BA:135:CYS:SG	1.56	1.43
3:BF:82:CYS:HB2	3:BF:135:CYS:SG	1.56	1.43
3:BQ:82:CYS:HB2	3:BQ:135:CYS:SG	1.56	1.43
4:BX:257:SER:OG	4:BX:257:SER:CB	1.64	1.43
3:BK:229:VAL:HG11	3:BK:235:HIS:CE1	1.50	1.43
3:BP:82:CYS:HB2	3:BP:135:CYS:SG	1.57	1.43
1:AA:674:VAL:CG1	1:AA:678:ARG:HB2	1.46	1.43
3:BH:82:CYS:HB2	3:BH:135:CYS:SG	1.57	1.43
3:BJ:268:VAL:HB	3:BK:266:SER:CB	1.48	1.43
3:BK:82:CYS:HB2	3:BK:135:CYS:SG	1.56	1.43
3:BI:69:ASN:ND2	5:D:1:NAG:C1	1.72	1.42
3:BN:229:VAL:HG11	3:BN:235:HIS:CE1	1.50	1.42
3:BH:229:VAL:HG11	3:BH:235:HIS:CE1	1.50	1.42
3:BM:82:CYS:HB2	3:BM:135:CYS:SG	1.56	1.42
3:BF:128:SER:HA	3:BF:155:LEU:CD1	1.50	1.41
3:BL:137:TYR:HD2	3:BL:310:MET:SD	1.42	1.41
3:BA:137:TYR:HD2	3:BA:310:MET:SD	1.44	1.41
3:BP:137:TYR:HD2	3:BP:310:MET:SD	1.44	1.41
2:AD:302:PRO:CB	3:BF:282:GLU:OE1	1.64	1.40
3:BK:128:SER:HA	3:BK:155:LEU:CD1	1.50	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:203:ALA:CA	4:BY:775:ARG:HH12	1.34	1.40
1:AA:469:ALA:HB1	2:AG:71:LEU:CD2	1.50	1.39
3:BJ:137:TYR:HD2	3:BJ:310:MET:SD	1.45	1.39
3:BM:261:ILE:HG12	3:BM:285:MET:SD	1.63	1.39
3:BG:137:TYR:HD2	3:BG:310:MET:SD	1.45	1.39
3:BL:261:ILE:HG12	3:BL:285:MET:SD	1.63	1.39
2:AG:241:ALA:CB	3:BJ:59:ILE:HG21	1.52	1.39
3:BK:137:TYR:HD2	3:BK:310:MET:SD	1.45	1.39
4:BZ:409:VAL:HG12	4:BZ:426:PHE:CD2	1.56	1.39
3:BH:128:SER:HA	3:BH:155:LEU:CD1	1.50	1.38
3:BH:261:ILE:HG12	3:BH:285:MET:SD	1.63	1.38
3:BP:261:ILE:HG12	3:BP:285:MET:SD	1.63	1.38
3:BH:137:TYR:HD2	3:BH:310:MET:SD	1.44	1.38
3:BG:261:ILE:HG12	3:BG:285:MET:SD	1.63	1.38
3:BN:137:TYR:HD2	3:BN:310:MET:SD	1.46	1.38
3:BQ:261:ILE:HG12	3:BQ:285:MET:SD	1.63	1.38
3:BQ:137:TYR:HD2	3:BQ:310:MET:SD	1.44	1.37
2:AH:359:PRO:HA	4:BZ:701:ILE:CG1	1.10	1.37
3:BJ:261:ILE:HG12	3:BJ:285:MET:SD	1.62	1.37
2:AC:357:VAL:CG2	4:BY:734:TYR:HA	1.50	1.37
3:BM:137:TYR:HD2	3:BM:310:MET:SD	1.44	1.37
3:BN:261:ILE:HG12	3:BN:285:MET:SD	1.63	1.37
3:BG:271:ILE:HD11	3:BG:279:PRO:CG	1.50	1.37
3:BF:261:ILE:HG12	3:BF:285:MET:SD	1.63	1.37
2:AK:268:GLN:OE1	4:BX:700:GLU:CG	1.71	1.36
3:BI:128:SER:HA	3:BI:155:LEU:CD1	1.53	1.36
3:BI:261:ILE:HG12	3:BI:285:MET:SD	1.63	1.36
3:BO:191:CYS:HA	3:BO:244:CYS:SG	1.66	1.36
3:BQ:191:CYS:HA	3:BQ:244:CYS:SG	1.66	1.36
4:BY:544:MET:CE	4:BY:653:PRO:HB2	1.53	1.36
3:BF:137:TYR:HD2	3:BF:310:MET:SD	1.45	1.36
3:BN:191:CYS:HA	3:BN:244:CYS:SG	1.66	1.36
4:BY:359:SER:HB2	4:BY:362:PHE:CD1	1.59	1.36
2:AC:295:MET:HE1	3:BH:67:TYR:CE1	1.60	1.35
3:BJ:191:CYS:HA	3:BJ:244:CYS:SG	1.66	1.35
3:BN:69:ASN:ND2	5:E:1:NAG:C1	1.87	1.35
4:BZ:544:MET:CE	4:BZ:656:LEU:HD12	1.56	1.35
3:BP:191:CYS:HA	3:BP:244:CYS:SG	1.66	1.35
3:BH:191:CYS:HA	3:BH:244:CYS:SG	1.66	1.35
3:BI:82:CYS:CB	3:BI:135:CYS:SG	2.15	1.35
3:BJ:82:CYS:CB	3:BJ:135:CYS:SG	2.15	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:128:SER:CB	3:BP:155:LEU:HD13	1.53	1.34
3:BA:191:CYS:HA	3:BA:244:CYS:SG	1.66	1.34
3:BK:191:CYS:HA	3:BK:244:CYS:SG	1.66	1.34
3:BM:191:CYS:HA	3:BM:244:CYS:SG	1.66	1.34
3:BO:82:CYS:CB	3:BO:135:CYS:SG	2.15	1.34
4:BY:47:PRO:CB	4:BY:419:VAL:HG13	1.54	1.34
1:AB:482:GLN:HG3	1:AB:493:LEU:CD2	1.57	1.34
3:BI:191:CYS:HA	3:BI:244:CYS:SG	1.66	1.34
3:BL:191:CYS:HA	3:BL:244:CYS:SG	1.66	1.34
3:BG:191:CYS:HA	3:BG:244:CYS:SG	1.66	1.34
3:BN:82:CYS:CB	3:BN:135:CYS:SG	2.15	1.34
3:BP:82:CYS:CB	3:BP:135:CYS:SG	2.15	1.34
2:AE:269:ILE:HD13	4:BY:725:LYS:CD	1.58	1.33
3:BF:69:ASN:ND2	5:B:1:NAG:C1	1.90	1.33
3:BF:82:CYS:CB	3:BF:135:CYS:SG	2.15	1.33
3:BF:191:CYS:HA	3:BF:244:CYS:SG	1.66	1.33
3:BG:82:CYS:CB	3:BG:135:CYS:SG	2.15	1.33
3:BL:82:CYS:CB	3:BL:135:CYS:SG	2.15	1.33
3:BQ:129:VAL:C	3:BQ:131:PRO:HD3	1.47	1.33
2:AE:203:ALA:CB	4:BY:775:ARG:NH1	1.88	1.33
3:BF:125:ALA:CB	3:BF:223:LYS:HD3	1.59	1.33
3:BM:82:CYS:CB	3:BM:135:CYS:SG	2.15	1.33
3:BQ:82:CYS:CB	3:BQ:135:CYS:SG	2.15	1.33
3:BJ:268:VAL:CB	3:BK:266:SER:HB2	1.58	1.33
2:AE:269:ILE:HD11	4:BY:725:LYS:CE	1.56	1.33
3:BF:150:LEU:HD21	3:BG:290:LYS:CD	1.58	1.33
3:BG:125:ALA:CB	3:BG:223:LYS:HD3	1.59	1.33
3:BQ:125:ALA:CB	3:BQ:223:LYS:HD3	1.59	1.33
3:BH:82:CYS:CB	3:BH:135:CYS:SG	2.15	1.32
3:BK:82:CYS:CB	3:BK:135:CYS:SG	2.15	1.32
3:BO:69:ASN:ND2	5:F:1:NAG:C1	1.90	1.32
3:BM:125:ALA:CB	3:BM:223:LYS:HD3	1.59	1.32
3:BP:125:ALA:CB	3:BP:223:LYS:HD3	1.59	1.32
3:BG:316:SER:HB2	3:BO:324:TYR:CB	1.59	1.32
3:BH:69:ASN:ND2	5:C:1:NAG:C1	1.92	1.32
3:BM:69:ASN:ND2	7:BM:401:NAG:C1	1.90	1.32
2:AL:163:SER:OG	3:BP:61:GLY:C	1.68	1.32
3:BL:125:ALA:CB	3:BL:223:LYS:HD3	1.59	1.32
3:BA:82:CYS:CB	3:BA:135:CYS:SG	2.15	1.31
3:BJ:125:ALA:CB	3:BJ:223:LYS:HD3	1.59	1.31
3:BK:125:ALA:CB	3:BK:223:LYS:HD3	1.59	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:203:ALA:HB1	4:BY:775:ARG:NH1	1.39	1.31
3:BN:125:ALA:CB	3:BN:223:LYS:HD3	1.59	1.30
2:AH:164:PHE:O	3:BK:61:GLY:CA	1.79	1.30
1:AA:204:THR:HG23	1:AA:244:ILE:CG1	1.60	1.30
2:AC:295:MET:HE1	3:BH:67:TYR:CD1	1.66	1.30
2:AG:241:ALA:HB1	3:BJ:59:ILE:CG2	1.58	1.30
2:AM:241:ALA:HB1	3:BQ:59:ILE:CG2	1.62	1.30
4:BX:350:TYR:CE1	4:BX:427:ARG:HD2	1.66	1.30
2:AE:269:ILE:CD1	4:BY:725:LYS:CE	2.09	1.30
3:BA:125:ALA:CB	3:BA:223:LYS:HD3	1.59	1.30
4:BY:307:ARG:CZ	4:BY:312:VAL:HG21	1.60	1.30
1:AA:259:HIS:CD2	1:AA:677:ARG:HG3	1.66	1.29
2:AH:359:PRO:CA	4:BZ:701:ILE:CG1	2.05	1.29
4:BY:45:TYR:CD2	4:BY:366:VAL:HG11	1.65	1.29
3:BG:128:SER:HA	3:BG:155:LEU:CD1	1.63	1.29
3:BH:125:ALA:CB	3:BH:223:LYS:HD3	1.59	1.29
3:BQ:128:SER:CB	3:BQ:155:LEU:HD13	1.61	1.29
2:AC:239:ASN:CB	3:BG:67:TYR:CE2	2.14	1.28
3:BQ:105:LEU:O	3:BQ:108:THR:HG22	1.33	1.28
1:AB:511:MET:CE	2:AJ:70:LEU:HD23	1.62	1.28
3:BJ:64:ASP:O	3:BJ:65:THR:HG22	1.18	1.28
3:BL:159:ILE:HD11	3:BL:260:VAL:CG2	1.64	1.28
3:BP:64:ASP:O	3:BP:65:THR:HG22	1.28	1.28
2:AL:164:PHE:O	3:BP:61:GLY:HA3	1.24	1.28
3:BJ:128:SER:CB	3:BJ:155:LEU:HD13	1.62	1.28
3:BA:105:LEU:O	3:BA:108:THR:HG22	1.33	1.28
2:AM:241:ALA:CB	3:BQ:59:ILE:HG21	1.64	1.27
3:BJ:105:LEU:O	3:BJ:108:THR:HG22	1.33	1.27
2:AI:171:PRO:CD	3:BJ:322:PHE:CE2	2.17	1.27
3:BH:63:MET:HG3	3:BH:65:THR:CG2	1.63	1.27
3:BI:267:ASP:O	3:BI:268:VAL:CG2	1.81	1.27
2:AH:363:PRO:HG2	4:BZ:704:ASP:OD1	1.21	1.27
3:BL:127:PHE:CD2	3:BL:155:LEU:HD21	1.69	1.27
2:AG:164:PHE:O	3:BJ:61:GLY:HA3	1.30	1.27
3:BO:257:ASN:OD1	3:BO:313:ARG:HB2	1.34	1.27
1:AA:571:LEU:HD11	1:AB:531:ARG:NH1	1.48	1.27
3:BF:127:PHE:CD2	3:BF:155:LEU:HD21	1.69	1.27
3:BF:289:TRP:O	3:BH:150:LEU:HD22	1.35	1.27
3:BL:64:ASP:O	3:BL:65:THR:HG22	1.18	1.27
3:BM:127:PHE:CD2	3:BM:155:LEU:HD21	1.69	1.27
2:AF:164:PHE:O	3:BI:61:GLY:HA3	1.15	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:164:PHE:O	3:BN:61:GLY:HA3	1.30	1.26
3:BA:229:VAL:CG1	3:BA:235:HIS:HE1	1.49	1.26
3:BF:159:ILE:HD11	3:BF:260:VAL:CG2	1.64	1.26
3:BJ:128:SER:HA	3:BJ:155:LEU:CD1	1.65	1.26
3:BN:127:PHE:CD2	3:BN:155:LEU:HD21	1.69	1.26
3:BO:105:LEU:O	3:BO:108:THR:HG22	1.33	1.26
2:AJ:163:SER:OG	3:BM:62:SER:HA	1.33	1.26
3:BI:181:ALA:O	3:BI:250:LYS:HA	1.27	1.26
3:BO:127:PHE:CD2	3:BO:155:LEU:HD21	1.69	1.26
3:BG:127:PHE:CD2	3:BG:155:LEU:HD21	1.69	1.26
3:BN:105:LEU:O	3:BN:108:THR:HG22	1.33	1.26
4:BY:50:TRP:H	4:BY:421:LEU:CD1	1.47	1.26
4:BY:544:MET:SD	4:BY:653:PRO:HB2	1.75	1.26
3:BG:105:LEU:O	3:BG:108:THR:HG22	1.33	1.26
3:BG:229:VAL:CG1	3:BG:235:HIS:HE1	1.49	1.26
3:BK:127:PHE:CD2	3:BK:155:LEU:HD21	1.69	1.26
3:BA:127:PHE:CD2	3:BA:155:LEU:HD21	1.69	1.25
3:BI:128:SER:CB	3:BI:155:LEU:HD13	1.65	1.25
3:BI:229:VAL:CG1	3:BI:235:HIS:HE1	1.49	1.25
3:BJ:127:PHE:CD2	3:BJ:155:LEU:HD21	1.69	1.25
4:BY:252:GLU:HG2	4:BY:253:ASP:N	1.46	1.25
4:BY:261:LEU:HD12	4:BY:478:ASP:OD2	1.35	1.25
1:AB:466:PHE:CE1	2:AH:80:THR:HG22	1.71	1.25
3:BF:172:LEU:HD13	4:BZ:467:ARG:CB	1.65	1.25
3:BH:127:PHE:CD2	3:BH:155:LEU:HD21	1.69	1.25
3:BM:105:LEU:O	3:BM:108:THR:HG22	1.33	1.25
3:BQ:127:PHE:CD2	3:BQ:155:LEU:HD21	1.69	1.25
4:BX:35:ILE:HG21	4:BY:37:LEU:CD1	1.67	1.25
3:BK:105:LEU:O	3:BK:108:THR:HG22	1.33	1.25
3:BO:257:ASN:ND2	3:BO:313:ARG:HD3	1.52	1.25
3:BP:229:VAL:CG1	3:BP:235:HIS:HE1	1.49	1.25
2:AG:202:PRO:HG2	4:BZ:577:ARG:NH2	1.50	1.25
3:BF:229:VAL:CG1	3:BF:235:HIS:HE1	1.49	1.25
3:BH:229:VAL:CG1	3:BH:235:HIS:HE1	1.49	1.25
3:BM:229:VAL:CG1	3:BM:235:HIS:HE1	1.49	1.25
3:BF:105:LEU:O	3:BF:108:THR:HG22	1.33	1.25
3:BP:127:PHE:CD2	3:BP:155:LEU:HD21	1.69	1.25
2:AL:163:SER:HG	3:BP:61:GLY:C	1.38	1.24
3:BI:105:LEU:O	3:BI:108:THR:HG22	1.33	1.24
2:AN:299:ASN:OD1	3:BP:71:THR:HB	1.33	1.24
3:BO:69:ASN:HD21	5:F:1:NAG:C1	1.47	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AJ:163:SER:OG	3:BM:62:SER:CA	1.84	1.24
3:BJ:229:VAL:CG1	3:BJ:235:HIS:HE1	1.49	1.24
3:BO:289:TRP:O	3:BQ:150:LEU:HD22	1.35	1.24
2:AC:364:GLY:N	4:BY:733:ASN:HB3	1.48	1.23
3:BG:129:VAL:O	3:BG:131:PRO:HD3	1.34	1.23
3:BK:229:VAL:CG1	3:BK:235:HIS:HE1	1.49	1.23
1:AB:457:GLN:HB2	1:AB:476:ASN:ND2	1.51	1.23
2:AE:203:ALA:C	4:BY:775:ARG:HH22	1.42	1.23
3:BH:105:LEU:O	3:BH:108:THR:HG22	1.33	1.23
3:BN:229:VAL:CG1	3:BN:235:HIS:HE1	1.49	1.23
3:BQ:229:VAL:CG1	3:BQ:235:HIS:HE1	1.49	1.23
2:AE:269:ILE:CD1	4:BY:725:LYS:HE2	1.68	1.23
2:AL:306:ALA:HB2	3:BQ:282:GLU:OE2	1.37	1.23
3:BL:105:LEU:O	3:BL:108:THR:HG22	1.33	1.23
3:BL:229:VAL:CG1	3:BL:235:HIS:HE1	1.49	1.23
3:BO:229:VAL:CG1	3:BO:235:HIS:HE1	1.49	1.23
3:BF:150:LEU:CD2	3:BG:290:LYS:HD3	1.69	1.23
4:BY:47:PRO:HB2	4:BY:419:VAL:CG1	1.69	1.23
1:AA:766:ILE:HG22	1:AA:797:PRO:O	1.35	1.23
2:AK:268:GLN:OE1	4:BX:700:GLU:HG2	1.21	1.23
3:BA:128:SER:HA	3:BA:155:LEU:CD1	1.67	1.23
4:BX:32:ASN:CB	4:BY:484:ILE:HG21	1.68	1.23
3:BF:172:LEU:CD1	4:BZ:467:ARG:HB2	1.70	1.22
3:BN:128:SER:HA	3:BN:155:LEU:CD1	1.69	1.22
3:BP:105:LEU:O	3:BP:108:THR:HG22	1.33	1.22
4:BZ:409:VAL:HG12	4:BZ:426:PHE:CE2	1.74	1.22
1:AA:259:HIS:NE2	1:AA:677:ARG:HG3	1.51	1.22
4:BX:473:LEU:HD21	4:BY:262:TRP:CE2	1.74	1.21
1:AB:440:PHE:HA	1:AB:518:PHE:CE1	1.75	1.21
3:BJ:52:ASN:O	3:BL:55:ILE:HG23	1.38	1.21
3:BL:289:TRP:O	3:BN:150:LEU:HD22	1.35	1.21
2:AJ:163:SER:OG	3:BM:61:GLY:C	1.78	1.20
3:BN:69:ASN:HD21	5:E:1:NAG:C1	1.44	1.20
4:BZ:264:GLU:HB3	4:BZ:473:LEU:C	1.61	1.20
2:AC:299:ASN:OD1	3:BH:71:THR:OG1	1.54	1.20
3:BJ:257:ASN:O	3:BJ:258:VAL:O	1.60	1.20
3:BM:257:ASN:O	3:BM:258:VAL:O	1.60	1.20
1:AB:630:ARG:CB	2:AL:71:LEU:HB2	1.69	1.20
3:BH:128:SER:CB	3:BH:155:LEU:HD13	1.72	1.20
3:BH:257:ASN:O	3:BH:258:VAL:O	1.60	1.20
3:BJ:52:ASN:ND2	3:BL:58:PRO:HA	1.54	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:251:LYS:HG3	3:BM:252:LEU:N	1.41	1.20
1:AB:492:VAL:HG13	1:AB:565:MET:SD	1.80	1.20
3:BJ:251:LYS:HG3	3:BJ:252:LEU:N	1.40	1.20
3:BL:290:LYS:HB2	3:BN:150:LEU:HD21	1.23	1.20
3:BQ:137:TYR:CD2	3:BQ:310:MET:SD	2.35	1.20
4:BY:252:GLU:CG	4:BY:253:ASP:H	1.54	1.20
3:BG:257:ASN:O	3:BG:258:VAL:O	1.60	1.19
3:BL:137:TYR:CD2	3:BL:310:MET:SD	2.35	1.19
4:BY:264:GLU:HG3	4:BY:473:LEU:CD2	1.72	1.19
1:AA:439:ALA:HB2	1:AA:525:TYR:CE2	1.78	1.19
2:AG:202:PRO:CG	4:BZ:577:ARG:NH2	2.02	1.19
3:BA:137:TYR:CD2	3:BA:310:MET:SD	2.35	1.19
3:BA:257:ASN:O	3:BA:258:VAL:O	1.60	1.19
3:BH:137:TYR:CD2	3:BH:310:MET:SD	2.35	1.19
3:BI:137:TYR:HD2	3:BI:310:MET:SD	1.65	1.19
3:BM:137:TYR:CD2	3:BM:310:MET:SD	2.35	1.19
3:BN:324:TYR:HD2	3:BN:326:ILE:CG2	1.54	1.19
3:BP:137:TYR:CD2	3:BP:310:MET:SD	2.35	1.19
4:BZ:269:ARG:NH2	4:BZ:359:SER:HB3	1.58	1.19
3:BI:267:ASP:O	3:BI:268:VAL:HG23	1.03	1.19
4:BY:488:VAL:HG23	4:BZ:448:TYR:CD1	1.77	1.19
3:BF:137:TYR:CD2	3:BF:310:MET:SD	2.35	1.19
3:BI:185:ILE:HD12	3:BI:249:CYS:SG	1.80	1.19
3:BM:251:LYS:O	3:BM:252:LEU:HB2	1.38	1.19
3:BO:128:SER:CB	3:BO:155:LEU:HD13	1.70	1.19
3:BP:82:CYS:SG	3:BP:135:CYS:HB3	1.83	1.19
4:BY:264:GLU:HA	4:BY:473:LEU:CD2	1.72	1.19
2:AH:164:PHE:O	3:BK:61:GLY:HA3	1.03	1.18
3:BG:82:CYS:SG	3:BG:135:CYS:HB3	1.83	1.18
3:BI:257:ASN:O	3:BI:258:VAL:O	1.60	1.18
3:BO:55:ILE:HG12	3:BO:322:PHE:HB3	1.23	1.18
1:AA:643:GLU:HG2	1:AA:662:MET:CE	1.71	1.18
2:AD:302:PRO:HB3	3:BF:282:GLU:OE1	1.01	1.18
3:BA:82:CYS:SG	3:BA:135:CYS:HB3	1.83	1.18
3:BF:257:ASN:O	3:BF:258:VAL:O	1.60	1.18
3:BH:82:CYS:SG	3:BH:135:CYS:HB3	1.84	1.18
3:BH:267:ASP:O	3:BH:268:VAL:HG23	1.03	1.18
3:BL:251:LYS:HG3	3:BL:252:LEU:N	1.41	1.18
3:BH:267:ASP:O	3:BH:268:VAL:CG2	1.90	1.18
3:BJ:137:TYR:CD2	3:BJ:310:MET:SD	2.36	1.18
3:BN:315:ARG:HG3	3:BN:316:SER:N	1.52	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BQ:128:SER:HB3	3:BQ:155:LEU:HD13	1.20	1.18
4:BX:66:ASP:OD2	4:BX:286:GLY:HA2	1.39	1.18
2:AG:171:PRO:CG	3:BJ:314:SER:OG	1.92	1.18
2:AK:145:ARG:HD2	2:AL:142:GLN:O	1.43	1.18
3:BF:82:CYS:SG	3:BF:135:CYS:HB3	1.83	1.18
3:BK:128:SER:CB	3:BK:155:LEU:HD13	1.72	1.18
1:AB:508:GLU:HG2	1:AB:512:GLN:NE2	1.58	1.18
2:AH:35:ASN:CB	2:AH:65:LEU:HD22	1.70	1.18
3:BF:128:SER:CB	3:BF:155:LEU:HD13	1.72	1.18
3:BG:251:LYS:O	3:BG:252:LEU:HB2	1.43	1.18
3:BK:82:CYS:SG	3:BK:135:CYS:HB3	1.83	1.18
3:BN:137:TYR:CD2	3:BN:310:MET:SD	2.37	1.18
3:BO:82:CYS:SG	3:BO:135:CYS:HB3	1.83	1.18
3:BQ:82:CYS:SG	3:BQ:135:CYS:HB3	1.83	1.18
3:BQ:257:ASN:O	3:BQ:258:VAL:O	1.60	1.18
3:BG:137:TYR:CD2	3:BG:310:MET:SD	2.35	1.17
3:BK:64:ASP:O	3:BK:65:THR:HG22	1.36	1.17
3:BM:69:ASN:HD21	7:BM:401:NAG:C1	1.50	1.17
3:BO:128:SER:HA	3:BO:155:LEU:CD1	1.73	1.17
2:AH:69:THR:O	2:AH:70:LEU:HG	1.43	1.17
3:BK:257:ASN:O	3:BK:258:VAL:O	1.60	1.17
3:BO:214:THR:HG21	4:BY:480:TYR:CZ	1.79	1.17
4:BY:488:VAL:O	4:BZ:432:VAL:HB	1.41	1.17
2:AC:163:SER:OG	3:BG:62:SER:HA	1.43	1.17
2:AK:145:ARG:HD3	2:AL:143:ASN:CA	1.75	1.17
3:BG:310:MET:HG3	3:BG:311:SER:H	1.09	1.17
3:BK:137:TYR:CD2	3:BK:310:MET:SD	2.36	1.17
3:BL:82:CYS:SG	3:BL:135:CYS:HB3	1.83	1.17
3:BO:214:THR:HG21	4:BY:480:TYR:CE1	1.79	1.17
3:BI:82:CYS:SG	3:BI:135:CYS:HB3	1.83	1.17
3:BN:82:CYS:SG	3:BN:135:CYS:HB3	1.83	1.17
3:BP:257:ASN:O	3:BP:258:VAL:O	1.60	1.17
4:BX:575:ILE:HG21	4:BY:511:GLU:O	1.44	1.17
1:AA:469:ALA:O	2:AG:71:LEU:HD22	1.43	1.17
3:BA:251:LYS:HG3	3:BA:252:LEU:N	1.38	1.17
3:BK:310:MET:CG	3:BK:311:SER:H	1.58	1.17
3:BP:60:THR:HG22	3:BP:62:SER:H	1.10	1.17
4:BX:473:LEU:CD2	4:BY:262:TRP:CZ2	2.28	1.17
1:AB:790:ARG:HA	1:AB:790:ARG:NE	1.34	1.16
3:BJ:82:CYS:SG	3:BJ:135:CYS:HB3	1.84	1.16
1:AA:128:PRO:HG3	1:AA:148:TRP:CZ3	1.80	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:128:SER:CB	3:BA:155:LEU:HD13	1.74	1.16
3:BN:64:ASP:O	3:BN:65:THR:HG22	1.43	1.16
4:BX:350:TYR:CD1	4:BX:427:ARG:HD2	1.80	1.16
4:BX:734:TYR:CZ	4:BX:761:PRO:HB2	1.81	1.16
3:BI:157:ASP:OD1	3:BI:271:ILE:HG23	1.37	1.16
3:BM:82:CYS:SG	3:BM:135:CYS:HB3	1.83	1.16
2:AC:239:ASN:CG	3:BG:67:TYR:CE2	2.19	1.16
3:BN:174:TYR:CD2	3:BN:198:LEU:CD1	2.28	1.16
3:BO:257:ASN:O	3:BO:258:VAL:O	1.60	1.16
3:BM:174:TYR:CD1	3:BM:198:LEU:CD1	2.29	1.16
1:AB:482:GLN:CG	1:AB:493:LEU:HD22	1.74	1.15
2:AC:356:PRO:HA	4:BY:735:GLY:HA3	1.19	1.15
3:BF:128:SER:CA	3:BF:155:LEU:HD13	1.75	1.15
3:BF:251:LYS:O	3:BF:252:LEU:HB2	1.36	1.15
3:BL:174:TYR:CD1	3:BL:198:LEU:CD1	2.29	1.15
4:BY:51:GLY:N	4:BY:421:LEU:HG	1.61	1.15
2:AK:164:PHE:O	3:BN:61:GLY:CA	1.94	1.15
3:BH:128:SER:CA	3:BH:155:LEU:HD13	1.75	1.15
3:BI:128:SER:CA	3:BI:155:LEU:HD13	1.75	1.15
3:BO:64:ASP:O	3:BO:65:THR:HG22	1.43	1.15
2:AC:357:VAL:HG23	4:BY:734:TYR:CA	1.75	1.15
2:AM:164:PHE:O	3:BQ:61:GLY:HA3	1.44	1.15
3:BK:128:SER:CA	3:BK:155:LEU:HD13	1.75	1.15
3:BO:268:VAL:CG1	3:BO:269:LEU:H	1.60	1.15
2:AH:35:ASN:HB3	2:AH:65:LEU:HD22	1.20	1.15
3:BF:191:CYS:CA	3:BF:244:CYS:SG	2.35	1.15
3:BH:191:CYS:CA	3:BH:244:CYS:SG	2.35	1.15
3:BN:174:TYR:CE2	3:BN:236:LYS:HB2	1.82	1.15
3:BO:174:TYR:CD1	3:BO:198:LEU:CD1	2.29	1.15
2:AG:171:PRO:HG2	3:BJ:314:SER:OG	1.47	1.15
3:BH:153:SER:OG	3:BH:269:LEU:HD11	1.43	1.15
3:BK:174:TYR:CD1	3:BK:198:LEU:CD1	2.29	1.15
3:BO:257:ASN:HD21	3:BO:313:ARG:CD	1.58	1.15
3:BP:126:SER:HA	3:BP:223:LYS:HZ1	1.03	1.15
3:BP:191:CYS:CA	3:BP:244:CYS:SG	2.35	1.15
2:AC:357:VAL:N	4:BY:734:TYR:O	1.80	1.14
2:AK:299:ASN:OD1	3:BL:70:SER:O	1.65	1.14
3:BQ:191:CYS:CA	3:BQ:244:CYS:SG	2.35	1.14
1:AB:466:PHE:CE1	2:AH:80:THR:CG2	2.30	1.14
3:BJ:134:TYR:HD2	3:BL:323:TYR:CD2	1.65	1.14
3:BJ:134:TYR:HD2	3:BL:323:TYR:CE2	1.65	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:312:LYS:O	3:BG:313:ARG:HB2	1.41	1.14
3:BH:229:VAL:CG1	3:BH:235:HIS:CE1	2.27	1.14
3:BI:174:TYR:CD1	3:BI:198:LEU:CD1	2.29	1.14
3:BJ:174:TYR:CD1	3:BJ:198:LEU:CD1	2.29	1.14
3:BL:251:LYS:O	3:BL:252:LEU:HB2	1.36	1.14
3:BN:191:CYS:CA	3:BN:244:CYS:SG	2.35	1.14
3:BO:191:CYS:CA	3:BO:244:CYS:SG	2.35	1.14
3:BP:174:TYR:CD1	3:BP:198:LEU:CD1	2.29	1.14
3:BP:314:SER:HB3	3:BP:315:ARG:HH11	1.01	1.14
4:BX:35:ILE:HG13	4:BY:37:LEU:HD13	1.26	1.14
1:AA:563:MET:HA	1:AA:563:MET:HE2	1.28	1.14
2:AH:242:ASP:O	4:BZ:602:SER:OG	1.64	1.14
3:BG:58:PRO:HA	3:BO:52:ASN:ND2	1.62	1.14
3:BJ:191:CYS:CA	3:BJ:244:CYS:SG	2.35	1.14
4:BX:734:TYR:CE1	4:BX:762:ILE:HG13	1.82	1.14
3:BI:191:CYS:CA	3:BI:244:CYS:SG	2.35	1.14
3:BQ:174:TYR:CD1	3:BQ:198:LEU:CD1	2.30	1.14
1:AB:654:ILE:HG13	1:AB:655:SER:H	1.06	1.13
2:AI:246:THR:HG22	3:BL:67:TYR:CE2	1.83	1.13
3:BG:58:PRO:HA	3:BO:52:ASN:HD21	1.05	1.13
3:BH:126:SER:HA	3:BH:223:LYS:HZ1	1.08	1.13
3:BJ:321:ALA:HB2	3:BJ:325:ARG:HE	1.08	1.13
3:BM:191:CYS:CA	3:BM:244:CYS:SG	2.35	1.13
3:BN:128:SER:CB	3:BN:155:LEU:HD13	1.76	1.13
3:BO:153:SER:CA	3:BO:269:LEU:HD11	1.78	1.13
4:BX:72:THR:HG21	4:BX:333:LEU:CD1	1.78	1.13
4:BX:262:TRP:CB	4:BX:473:LEU:HG	1.78	1.13
3:BF:229:VAL:CG1	3:BF:235:HIS:CE1	2.27	1.13
3:BG:191:CYS:CA	3:BG:244:CYS:SG	2.35	1.13
3:BJ:251:LYS:O	3:BJ:252:LEU:HB2	1.39	1.13
3:BK:251:LYS:O	3:BK:252:LEU:HB2	1.40	1.13
3:BL:191:CYS:CA	3:BL:244:CYS:SG	2.35	1.13
3:BM:174:TYR:CD1	3:BM:198:LEU:HD12	1.83	1.13
2:AI:171:PRO:HD2	3:BJ:322:PHE:CE2	1.84	1.13
3:BA:191:CYS:CA	3:BA:244:CYS:SG	2.35	1.13
3:BF:271:ILE:O	3:BF:271:ILE:HG22	1.48	1.13
4:BX:262:TRP:HB3	4:BX:473:LEU:CG	1.79	1.13
4:BY:544:MET:SD	4:BY:653:PRO:CB	2.37	1.13
1:AA:178:PRO:HG3	1:AA:256:PHE:CD2	1.83	1.13
1:AB:381:THR:HG21	1:AB:576:LEU:CD2	1.79	1.13
1:AB:573:THR:HG22	1:AB:574:GLU:H	0.98	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:262:GLU:CG	4:BY:725:LYS:NZ	1.99	1.13
3:BF:150:LEU:HD21	3:BG:290:LYS:CG	1.78	1.13
3:BG:229:VAL:CG1	3:BG:235:HIS:CE1	2.27	1.13
3:BK:126:SER:HA	3:BK:223:LYS:HZ1	1.13	1.13
3:BP:229:VAL:CG1	3:BP:235:HIS:CE1	2.27	1.13
3:BQ:251:LYS:HG3	3:BQ:252:LEU:N	1.42	1.13
2:AI:76:ASN:H	2:AM:76:ASN:HB2	1.04	1.12
2:AL:363:PRO:CG	4:BX:704:ASP:OD1	1.97	1.13
3:BK:141:LEU:HD12	3:BK:261:ILE:CG2	1.79	1.13
3:BI:174:TYR:CD1	3:BI:198:LEU:HD12	1.85	1.12
3:BK:191:CYS:CA	3:BK:244:CYS:SG	2.35	1.12
3:BK:310:MET:HG3	3:BK:311:SER:N	1.62	1.12
3:BL:128:SER:OG	3:BL:155:LEU:HD13	1.49	1.12
3:BN:310:MET:HG3	3:BN:311:SER:H	1.14	1.13
3:BQ:174:TYR:CD1	3:BQ:198:LEU:HD12	1.84	1.13
4:BY:40:PHE:HD2	4:BY:259:THR:HB	1.02	1.13
1:AA:262:VAL:HG21	1:AA:848:PHE:CE2	1.83	1.12
3:BP:174:TYR:CD1	3:BP:198:LEU:HD12	1.84	1.12
1:AA:333:VAL:HG11	1:AA:380:LYS:HA	1.19	1.12
2:AC:239:ASN:HB2	3:BG:67:TYR:CE2	1.80	1.12
3:BA:229:VAL:CG1	3:BA:235:HIS:CE1	2.27	1.12
3:BF:128:SER:HA	3:BF:155:LEU:HD11	1.29	1.12
3:BO:268:VAL:HG12	3:BO:269:LEU:N	1.60	1.12
1:AA:306:ASP:HA	1:AA:614:TYR:HE2	1.09	1.12
1:AB:200:VAL:HG21	1:AB:243:SER:HB3	1.19	1.12
1:AB:654:ILE:HG13	1:AB:655:SER:N	1.61	1.12
3:BK:174:TYR:CD1	3:BK:198:LEU:HD12	1.85	1.12
3:BL:174:TYR:CD1	3:BL:198:LEU:HD12	1.85	1.12
3:BN:229:VAL:CG1	3:BN:235:HIS:CE1	2.27	1.12
3:BO:55:ILE:HD11	3:BO:322:PHE:HD2	1.07	1.12
2:AM:306:ALA:HB2	3:BO:282:GLU:OE2	1.49	1.12
3:BK:271:ILE:HG13	3:BK:272:THR:N	1.53	1.12
4:BX:328:PHE:CE1	4:BX:442:THR:HG21	1.85	1.12
2:AD:302:PRO:C	3:BF:282:GLU:OE2	1.87	1.11
2:AI:299:ASN:OD1	3:BM:70:SER:O	1.67	1.11
3:BF:150:LEU:HD22	3:BG:289:TRP:O	1.48	1.11
3:BF:174:TYR:CD1	3:BF:198:LEU:HD12	1.84	1.11
3:BJ:174:TYR:CD1	3:BJ:198:LEU:HD12	1.85	1.11
3:BM:150:LEU:HD22	3:BN:289:TRP:O	1.48	1.11
3:BM:268:VAL:CG2	3:BN:266:SER:HB2	1.80	1.11
3:BO:55:ILE:CG1	3:BO:322:PHE:HB3	1.81	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:145:ARG:CD	2:AL:143:ASN:CA	2.27	1.11
3:BL:159:ILE:HD12	3:BL:258:VAL:CG1	1.81	1.11
3:BL:268:VAL:HG12	3:BL:269:LEU:N	1.60	1.11
3:BP:310:MET:HG3	3:BP:311:SER:H	1.13	1.11
1:AA:122:LEU:O	1:AA:123:PHE:HB2	1.42	1.11
2:AM:255:ARG:CD	3:BO:65:THR:OG1	1.97	1.11
3:BO:174:TYR:CD1	3:BO:198:LEU:HD12	1.85	1.11
3:BI:128:SER:HA	3:BI:155:LEU:HD11	1.31	1.11
3:BK:229:VAL:CG1	3:BK:235:HIS:CE1	2.27	1.11
3:BP:312:LYS:O	3:BP:313:ARG:HB3	1.45	1.11
2:AI:171:PRO:HG2	3:BL:313:ARG:HG2	1.30	1.11
2:AJ:163:SER:OG	3:BM:62:SER:N	1.82	1.11
3:BG:272:THR:HG21	3:BG:277:THR:HG22	1.25	1.11
3:BO:153:SER:N	3:BO:269:LEU:HD11	1.66	1.11
1:AA:178:PRO:CG	1:AA:256:PHE:CD2	2.34	1.10
1:AB:790:ARG:HE	1:AB:790:ARG:CA	1.55	1.10
2:AC:239:ASN:HB2	3:BG:67:TYR:OH	1.50	1.10
3:BH:251:LYS:O	3:BH:252:LEU:HB2	1.40	1.10
3:BJ:64:ASP:O	3:BJ:65:THR:CG2	1.98	1.10
3:BL:268:VAL:CG1	3:BL:269:LEU:H	1.64	1.10
4:BX:72:THR:HG21	4:BX:333:LEU:HD12	1.13	1.10
4:BZ:538:ILE:HG22	4:BZ:539:ASP:N	1.65	1.10
2:AH:242:ASP:O	4:BZ:602:SER:CB	2.00	1.10
3:BA:252:LEU:HG	3:BA:253:GLY:H	1.12	1.10
3:BL:229:VAL:CG1	3:BL:235:HIS:CE1	2.27	1.10
3:BM:310:MET:HG3	3:BM:311:SER:H	1.15	1.10
4:BX:35:ILE:HG21	4:BY:37:LEU:HD11	1.34	1.10
4:BY:264:GLU:CG	4:BY:473:LEU:CD2	2.29	1.10
4:BZ:651:ILE:HG13	4:BZ:652:SER:N	1.65	1.10
1:AB:492:VAL:HG11	1:AB:558:MET:HG3	1.26	1.10
3:BJ:321:ALA:CB	3:BJ:325:ARG:HE	1.64	1.10
1:AA:451:ASP:HB3	1:AA:452:PRO:HD2	1.32	1.10
1:AB:381:THR:HG21	1:AB:576:LEU:HD21	1.32	1.10
1:AB:630:ARG:HB3	2:AL:71:LEU:CB	1.81	1.10
2:AI:53:ASN:HD21	4:BX:697:THR:CA	1.50	1.10
3:BF:159:ILE:HD12	3:BF:258:VAL:HG11	1.17	1.10
3:BO:124:ILE:HD13	3:BO:152:MET:HG2	1.34	1.10
3:BP:314:SER:HB3	3:BP:315:ARG:NH1	1.64	1.10
2:AM:313:PRO:HD2	3:BQ:279:PRO:HB3	1.18	1.10
3:BG:251:LYS:HG3	3:BG:252:LEU:N	1.38	1.10
3:BI:229:VAL:CG1	3:BI:235:HIS:CE1	2.27	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:128:SER:CA	3:BJ:155:LEU:HD13	1.82	1.10
3:BL:124:ILE:HD13	3:BL:152:MET:HG2	1.34	1.10
3:BN:315:ARG:CG	3:BN:316:SER:H	1.54	1.10
3:BQ:128:SER:HA	3:BQ:155:LEU:CD1	1.82	1.10
4:BX:540:ALA:O	4:BX:544:MET:HB2	1.50	1.10
4:BX:617:ARG:HA	4:BX:620:ARG:HE	0.98	1.10
2:AL:165:THR:CG2	3:BP:58:PRO:HB3	1.82	1.09
2:AN:299:ASN:OD1	3:BP:71:THR:CB	1.98	1.09
3:BG:125:ALA:HB1	3:BG:223:LYS:CD	1.82	1.09
3:BG:272:THR:HG21	3:BG:277:THR:CG2	1.80	1.09
3:BN:251:LYS:HG3	3:BN:252:LEU:N	1.43	1.09
3:BP:313:ARG:HG3	3:BP:313:ARG:O	1.44	1.09
3:BQ:252:LEU:HG	3:BQ:253:GLY:N	1.62	1.09
4:BY:40:PHE:CD2	4:BY:259:THR:HB	1.87	1.09
4:BY:50:TRP:N	4:BY:421:LEU:HD12	1.67	1.09
4:BZ:544:MET:SD	4:BZ:653:PRO:HA	1.91	1.09
3:BA:310:MET:HG3	3:BA:311:SER:H	1.15	1.09
3:BG:124:ILE:HD13	3:BG:152:MET:HG2	1.34	1.09
3:BL:126:SER:HA	3:BL:223:LYS:HZ1	1.05	1.09
3:BQ:252:LEU:HG	3:BQ:253:GLY:H	0.95	1.09
4:BX:649:THR:HB	4:BX:650:GLN:NE2	1.67	1.09
4:BZ:272:THR:HB	4:BZ:307:ARG:HH21	1.07	1.09
1:AA:200:VAL:HB	1:AA:243:SER:HB3	1.34	1.09
1:AB:381:THR:CG2	1:AB:576:LEU:HD21	1.82	1.09
2:AH:363:PRO:CG	4:BZ:704:ASP:OD1	1.99	1.09
2:AI:246:THR:CG2	3:BL:67:TYR:CE2	2.36	1.09
3:BH:310:MET:HG3	3:BH:311:SER:H	1.15	1.09
3:BK:267:ASP:O	3:BK:268:VAL:HG23	1.52	1.09
3:BO:310:MET:HG3	3:BO:311:SER:H	1.18	1.09
4:BX:32:ASN:CB	4:BY:484:ILE:CG2	2.26	1.09
4:BX:48:VAL:HB	4:BX:419:VAL:HG11	1.27	1.09
4:BY:50:TRP:H	4:BY:421:LEU:HD12	0.99	1.09
4:BZ:544:MET:HE1	4:BZ:656:LEU:HD12	1.28	1.09
2:AC:364:GLY:CA	4:BY:733:ASN:HB3	1.81	1.09
2:AE:255:ARG:HD3	3:BG:65:THR:HG23	1.32	1.09
2:AH:38:ILE:HD12	2:AH:65:LEU:HD23	1.33	1.09
2:AH:241:ALA:CB	3:BK:59:ILE:HG21	1.83	1.09
3:BQ:125:ALA:HB1	3:BQ:223:LYS:CD	1.82	1.09
3:BQ:229:VAL:CG1	3:BQ:235:HIS:CE1	2.27	1.09
4:BY:601:VAL:O	4:BY:601:VAL:HG12	1.37	1.09
1:AB:440:PHE:HA	1:AB:518:PHE:HE1	1.01	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:126:ARG:HH11	2:AL:126:ARG:HG3	0.92	1.09
3:BM:128:SER:HB2	3:BM:155:LEU:HD13	1.30	1.09
3:BN:124:ILE:HD13	3:BN:152:MET:HG2	1.34	1.09
3:BP:125:ALA:HB1	3:BP:223:LYS:CD	1.81	1.09
3:BP:150:LEU:HD22	3:BQ:289:TRP:O	1.51	1.09
1:AA:204:THR:HG23	1:AA:244:ILE:HG13	1.19	1.08
1:AA:654:ILE:HG13	1:AA:655:SER:N	1.66	1.08
3:BA:125:ALA:HB1	3:BA:223:LYS:CD	1.82	1.08
3:BG:69:ASN:CB	4:BY:507:ALA:HA	1.83	1.08
3:BH:124:ILE:HD13	3:BH:152:MET:HG2	1.34	1.08
3:BI:269:LEU:O	3:BI:270:ASP:HB3	1.47	1.08
3:BL:149:GLN:HE21	3:BL:269:LEU:HD21	1.16	1.08
3:BL:174:TYR:CE1	3:BL:234:ASN:HB3	1.89	1.08
3:BL:266:SER:HA	3:BN:268:VAL:HG12	1.32	1.08
3:BM:174:TYR:CE1	3:BM:234:ASN:HB3	1.87	1.08
4:BZ:264:GLU:HB3	4:BZ:473:LEU:CA	1.83	1.08
1:AA:469:ALA:HB1	2:AG:71:LEU:HD23	1.19	1.08
1:AA:506:LEU:HD23	1:AA:544:VAL:HA	1.31	1.08
1:AA:513:LEU:HA	1:AA:516:GLN:HE22	1.05	1.08
3:BF:310:MET:HG3	3:BF:311:SER:H	1.15	1.08
3:BI:124:ILE:HD13	3:BI:152:MET:HG2	1.34	1.08
3:BK:251:LYS:HG3	3:BK:252:LEU:N	1.40	1.08
3:BL:64:ASP:O	3:BL:65:THR:CG2	1.98	1.08
3:BN:125:ALA:HB1	3:BN:223:LYS:CD	1.82	1.08
4:BX:583:SER:HB3	4:BX:593:ASP:HB3	1.32	1.08
1:AA:262:VAL:HG21	1:AA:848:PHE:HE2	0.94	1.08
1:AA:674:VAL:CG1	1:AA:678:ARG:CB	2.31	1.08
1:AA:674:VAL:HG12	1:AA:678:ARG:HB2	1.12	1.08
3:BG:315:ARG:O	3:BG:315:ARG:CG	2.02	1.08
3:BI:64:ASP:O	3:BI:65:THR:HG22	1.51	1.08
3:BI:174:TYR:CE1	3:BI:234:ASN:HB3	1.89	1.08
3:BJ:125:ALA:HB1	3:BJ:223:LYS:CD	1.82	1.08
3:BM:125:ALA:HB1	3:BM:223:LYS:CD	1.82	1.08
3:BP:174:TYR:CE1	3:BP:234:ASN:HB3	1.89	1.08
3:BH:125:ALA:HB1	3:BH:223:LYS:CD	1.82	1.08
3:BJ:323:TYR:O	3:BJ:324:TYR:CD1	2.05	1.08
3:BK:56:ASN:OD1	3:BK:57:LEU:N	1.86	1.08
3:BK:125:ALA:HB1	3:BK:223:LYS:CD	1.82	1.08
3:BL:125:ALA:HB1	3:BL:223:LYS:CD	1.82	1.08
3:BP:257:ASN:ND2	3:BP:313:ARG:HH21	1.49	1.08
4:BX:259:THR:HG23	4:BY:262:TRP:O	1.53	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:544:MET:HE3	4:BZ:656:LEU:HD12	1.27	1.08
1:AB:494:ASN:CG	1:AB:495:ASP:H	1.57	1.08
2:AD:302:PRO:O	3:BF:282:GLU:OE2	1.72	1.08
2:AI:299:ASN:ND2	3:BM:70:SER:O	1.86	1.08
2:AK:145:ARG:HG3	2:AL:143:ASN:O	1.53	1.08
3:BH:251:LYS:HG3	3:BH:252:LEU:N	1.40	1.08
4:BY:38:GLY:H	4:BY:39:PRO:HD3	1.18	1.08
1:AA:705:ILE:HA	1:AA:823:THR:HG22	1.35	1.07
3:BF:125:ALA:HB1	3:BF:223:LYS:CD	1.82	1.07
3:BK:124:ILE:HD13	3:BK:152:MET:HG2	1.34	1.07
2:AG:171:PRO:CB	3:BJ:314:SER:OG	2.01	1.07
3:BF:128:SER:CA	3:BF:155:LEU:CD1	2.30	1.07
3:BF:154:GLU:HG3	3:BG:290:LYS:NZ	1.69	1.07
3:BI:129:VAL:O	3:BI:131:PRO:HD2	1.53	1.07
3:BJ:310:MET:HG3	3:BJ:311:SER:H	1.02	1.07
3:BN:132:GLN:HA	3:BN:320:ALA:HB3	1.09	1.07
4:BY:315:HIS:HB2	4:BY:356:TRP:O	1.55	1.07
4:BY:514:MET:HB3	4:BY:756:ILE:HD11	1.33	1.07
2:AG:306:ALA:HB2	3:BK:282:GLU:OE2	1.54	1.07
3:BF:267:ASP:OD1	3:BF:267:ASP:O	1.71	1.07
3:BJ:124:ILE:HD13	3:BJ:152:MET:HG2	1.34	1.07
3:BJ:126:SER:HA	3:BJ:223:LYS:HZ1	1.11	1.07
3:BJ:128:SER:HB3	3:BJ:155:LEU:HD13	1.32	1.07
3:BP:251:LYS:HG3	3:BP:252:LEU:N	1.39	1.07
3:BQ:187:MET:HG2	3:BQ:224:LEU:HD12	1.28	1.07
4:BX:45:TYR:CE2	4:BX:262:TRP:CH2	2.42	1.07
4:BY:264:GLU:HA	4:BY:473:LEU:HD23	1.15	1.07
2:AE:269:ILE:CD1	4:BY:725:LYS:CD	2.29	1.07
2:AI:171:PRO:HG2	3:BL:313:ARG:CG	1.84	1.07
2:AL:241:ALA:HB1	3:BP:59:ILE:HG22	1.32	1.07
3:BH:261:ILE:HG12	3:BH:285:MET:CG	1.85	1.07
3:BI:158:LEU:CD1	3:BI:224:LEU:HD21	1.85	1.07
3:BK:128:SER:HA	3:BK:155:LEU:HD11	1.29	1.07
3:BO:174:TYR:CE1	3:BO:234:ASN:HB3	1.89	1.07
3:BP:57:LEU:HB2	3:BP:58:PRO:HD3	1.36	1.07
4:BY:617:ARG:HA	4:BY:620:ARG:HE	1.15	1.07
1:AA:257:LEU:HD13	1:AA:843:THR:O	1.55	1.07
1:AB:779:ASP:HA	1:AB:798:ILE:HD11	1.36	1.07
2:AF:163:SER:OG	3:BI:61:GLY:C	1.94	1.07
2:AG:246:THR:CG2	3:BJ:67:TYR:CE2	2.37	1.07
2:AN:258:ASN:OD1	4:BX:582:ARG:HB3	1.52	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:261:ILE:HG12	3:BF:285:MET:CG	1.85	1.07
3:BI:128:SER:CA	3:BI:155:LEU:CD1	2.30	1.07
3:BI:251:LYS:HG3	3:BI:252:LEU:N	1.40	1.07
3:BK:261:ILE:HD11	3:BK:287:ILE:CD1	1.84	1.07
3:BQ:174:TYR:CE1	3:BQ:234:ASN:HB3	1.89	1.07
3:BQ:310:MET:HG3	3:BQ:311:SER:H	1.15	1.07
4:BX:482:THR:H	4:BX:483:PRO:HD3	1.19	1.07
1:AA:439:ALA:HB2	1:AA:525:TYR:HE2	0.94	1.06
2:AE:203:ALA:CA	4:BY:775:ARG:NH1	2.11	1.06
3:BI:261:ILE:HG12	3:BI:285:MET:CG	1.84	1.06
3:BN:126:SER:HA	3:BN:223:LYS:HZ1	1.19	1.06
3:BO:214:THR:HG21	4:BY:480:TYR:OH	1.54	1.06
3:BO:268:VAL:HG21	3:BP:286:ARG:HH12	1.12	1.06
4:BY:263:LYS:HB2	4:BY:477:ASN:HB2	1.34	1.06
2:AD:302:PRO:CA	3:BF:282:GLU:OE1	2.02	1.06
2:AI:53:ASN:HD21	4:BX:697:THR:HA	1.00	1.06
3:BA:251:LYS:O	3:BA:252:LEU:HB2	1.46	1.06
3:BF:251:LYS:HG3	3:BF:252:LEU:N	1.40	1.06
3:BH:128:SER:HA	3:BH:155:LEU:HD11	1.29	1.06
3:BI:121:TYR:HB3	3:BI:127:PHE:CD1	1.90	1.06
3:BJ:174:TYR:CE1	3:BJ:234:ASN:HB3	1.89	1.06
3:BJ:261:ILE:HG12	3:BJ:285:MET:CG	1.84	1.06
3:BQ:174:TYR:CD1	3:BQ:174:TYR:O	2.07	1.06
4:BX:30:THR:O	4:BY:33:VAL:HB	1.55	1.06
4:BZ:514:MET:HB3	4:BZ:756:ILE:HD11	1.35	1.06
2:AF:164:PHE:O	3:BI:61:GLY:CA	2.02	1.06
2:AM:255:ARG:CZ	3:BO:65:THR:OG1	2.04	1.06
3:BJ:324:TYR:O	3:BJ:325:ARG:HB2	1.54	1.06
3:BK:174:TYR:CE1	3:BK:234:ASN:HB3	1.89	1.06
3:BK:271:ILE:O	3:BK:272:THR:C	1.85	1.06
3:BP:261:ILE:HG12	3:BP:285:MET:CG	1.85	1.06
2:AC:239:ASN:CB	3:BG:67:TYR:CZ	2.33	1.06
3:BG:128:SER:HA	3:BG:155:LEU:HD11	1.38	1.06
3:BG:129:VAL:HG13	3:BG:187:MET:HG3	1.38	1.06
3:BL:55:ILE:O	3:BL:55:ILE:HG22	1.54	1.06
3:BL:261:ILE:HG12	3:BL:285:MET:CG	1.84	1.06
3:BM:261:ILE:HG12	3:BM:285:MET:CG	1.84	1.06
3:BQ:165:CYS:HB3	3:BQ:247:ARG:HG2	1.38	1.06
4:BX:473:LEU:HD22	4:BY:262:TRP:CZ2	1.90	1.06
4:BY:482:THR:HB	4:BY:483:PRO:HD2	1.33	1.06
1:AA:122:LEU:HD13	1:AA:245:LEU:HD21	1.31	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:299:ASN:CG	3:BH:71:THR:OG1	1.93	1.06
2:AI:356:PRO:HA	4:BX:735:GLY:HA2	1.37	1.06
3:BA:126:SER:HA	3:BA:223:LYS:HZ1	1.14	1.06
3:BN:137:TYR:CZ	3:BN:312:LYS:HB3	1.89	1.06
4:BZ:409:VAL:CG1	4:BZ:426:PHE:CE2	2.39	1.06
1:AA:721:VAL:HG12	1:AA:722:ASN:H	1.07	1.05
1:AB:419:PHE:CD2	1:AB:424:LEU:HD21	1.91	1.05
2:AK:106:ARG:HG2	2:AK:107:ASN:N	1.60	1.05
2:AM:255:ARG:NE	3:BO:65:THR:OG1	1.90	1.05
3:BG:69:ASN:HB2	4:BY:507:ALA:HA	1.16	1.05
3:BH:128:SER:CA	3:BH:155:LEU:CD1	2.30	1.05
3:BI:251:LYS:O	3:BI:252:LEU:HB2	1.48	1.05
3:BO:229:VAL:CG1	3:BO:235:HIS:CE1	2.27	1.05
3:BP:317:LEU:HG	3:BP:318:ASN:H	1.20	1.05
3:BA:124:ILE:HD13	3:BA:152:MET:HG2	1.34	1.05
3:BN:261:ILE:HG12	3:BN:285:MET:CG	1.85	1.05
3:BO:128:SER:HB2	3:BO:155:LEU:HD13	1.36	1.05
1:AA:503:VAL:HG12	1:AA:503:VAL:O	1.47	1.05
3:BG:261:ILE:HG12	3:BG:285:MET:CG	1.85	1.05
3:BK:128:SER:CA	3:BK:155:LEU:CD1	2.30	1.05
3:BN:162:GLU:HB2	3:BN:253:GLY:O	1.53	1.05
2:AH:35:ASN:CA	2:AH:65:LEU:HD22	1.85	1.05
3:BI:310:MET:HG3	3:BI:311:SER:H	1.20	1.05
3:BJ:150:LEU:HD22	3:BK:290:LYS:HB2	1.07	1.05
3:BM:124:ILE:HD13	3:BM:152:MET:HG2	1.34	1.05
3:BM:229:VAL:CG1	3:BM:235:HIS:CE1	2.27	1.05
3:BO:150:LEU:HD22	3:BP:289:TRP:O	1.55	1.05
3:BP:124:ILE:HD13	3:BP:152:MET:HG2	1.34	1.05
3:BQ:252:LEU:CG	3:BQ:253:GLY:H	1.65	1.05
4:BY:315:HIS:HD2	4:BY:357:ASP:HA	1.16	1.05
1:AA:312:ASP:O	1:AA:313:ASN:HB2	1.55	1.05
1:AB:432:ILE:HA	1:AB:436:ILE:HD11	1.08	1.05
2:AG:202:PRO:HG3	4:BZ:577:ARG:HH21	1.21	1.05
3:BF:288:ASN:ND2	3:BH:150:LEU:HD12	1.72	1.05
3:BI:132:GLN:HA	3:BI:319:SER:HA	1.36	1.05
3:BK:271:ILE:CG1	3:BK:272:THR:H	1.69	1.05
3:BQ:126:SER:HA	3:BQ:223:LYS:NZ	1.72	1.05
4:BX:35:ILE:CG1	4:BY:37:LEU:HD13	1.85	1.05
4:BX:514:MET:HB3	4:BX:756:ILE:HD11	1.35	1.05
1:AA:126:PHE:CE2	1:AA:150:LEU:HD13	1.90	1.04
1:AB:454:THR:CG2	1:AB:455:PRO:HD2	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:243:GLY:O	3:BG:67:TYR:HA	1.55	1.04
3:BA:191:CYS:CB	3:BA:244:CYS:HG	1.69	1.04
3:BH:126:SER:HA	3:BH:223:LYS:NZ	1.72	1.04
3:BQ:261:ILE:HG12	3:BQ:285:MET:CG	1.84	1.04
4:BY:701:ILE:HG12	4:BY:702:PRO:HD2	1.39	1.04
1:AA:473:HIS:HD2	2:AG:71:LEU:CD1	1.68	1.04
2:AH:76:ASN:HB2	2:AJ:76:ASN:H	1.17	1.04
3:BA:118:PHE:O	3:BA:119:LYS:HD3	1.56	1.04
3:BA:126:SER:HA	3:BA:223:LYS:NZ	1.72	1.04
3:BL:69:ASN:ND2	4:BX:507:ALA:HA	1.71	1.04
3:BL:129:VAL:O	3:BL:131:PRO:HD3	1.55	1.04
4:BY:40:PHE:HD2	4:BY:259:THR:CB	1.68	1.04
1:AA:521:MET:HB3	1:AA:522:PRO:HD3	1.39	1.04
2:AC:356:PRO:HA	4:BY:734:TYR:O	1.57	1.04
2:AE:269:ILE:CD1	4:BY:725:LYS:HD3	1.86	1.04
3:BJ:229:VAL:CG1	3:BJ:235:HIS:CE1	2.27	1.04
3:BL:150:LEU:HD22	3:BM:289:TRP:O	1.55	1.04
3:BN:126:SER:HA	3:BN:223:LYS:NZ	1.72	1.04
3:BO:128:SER:OG	3:BO:224:LEU:HD22	1.54	1.04
4:BZ:538:ILE:CG2	4:BZ:539:ASP:H	1.68	1.04
1:AB:389:GLN:HE22	1:AB:493:LEU:CD1	1.70	1.04
2:AK:163:SER:OG	3:BN:62:SER:HA	1.57	1.04
3:BK:54:GLY:O	3:BK:55:ILE:HG22	1.57	1.04
3:BK:271:ILE:HG13	3:BK:272:THR:H	0.91	1.04
3:BM:126:SER:HA	3:BM:223:LYS:NZ	1.72	1.04
3:BN:312:LYS:HG2	3:BN:312:LYS:O	1.54	1.04
3:BO:252:LEU:O	3:BO:253:GLY:O	1.75	1.04
3:BQ:124:ILE:HD13	3:BQ:152:MET:HG2	1.34	1.04
4:BX:617:ARG:HG3	4:BX:620:ARG:NH2	1.71	1.04
4:BY:307:ARG:CZ	4:BY:312:VAL:CG2	2.36	1.04
4:BY:482:THR:HB	4:BY:483:PRO:CD	1.87	1.04
4:BZ:269:ARG:HH22	4:BZ:359:SER:HB3	1.23	1.04
1:AA:469:ALA:HB1	2:AG:71:LEU:HD21	1.33	1.04
2:AH:35:ASN:HB3	2:AH:65:LEU:CD2	1.88	1.04
2:AM:313:PRO:HD2	3:BQ:279:PRO:CB	1.87	1.04
3:BA:128:SER:CA	3:BA:155:LEU:HD13	1.88	1.04
4:BX:34:THR:HB	4:BY:484:ILE:HD12	1.39	1.04
4:BY:263:LYS:HD2	4:BY:477:ASN:CG	1.78	1.04
4:BY:485:THR:O	4:BY:485:THR:HG22	1.56	1.04
2:AG:164:PHE:O	3:BJ:61:GLY:CA	2.04	1.03
2:AI:357:VAL:HG22	4:BX:733:ASN:O	1.57	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:137:TYR:CZ	3:BG:312:LYS:HB3	1.92	1.03
3:BI:121:TYR:HB3	3:BI:127:PHE:HD1	1.13	1.03
3:BJ:261:ILE:CG1	3:BJ:285:MET:SD	2.46	1.03
3:BN:82:CYS:SG	3:BN:135:CYS:CB	2.46	1.03
3:BO:128:SER:CA	3:BO:155:LEU:HD13	1.88	1.03
2:AC:166:LEU:O	3:BO:52:ASN:OD1	1.75	1.03
3:BF:128:SER:HA	3:BF:155:LEU:HD13	1.35	1.03
3:BI:272:THR:HG21	3:BI:277:THR:HG22	1.39	1.03
3:BJ:128:SER:CA	3:BJ:155:LEU:CD1	2.36	1.03
3:BP:128:SER:HB3	3:BP:155:LEU:HD13	1.08	1.03
4:BX:617:ARG:HG3	4:BX:620:ARG:HH21	0.87	1.03
1:AB:464:GLN:HB3	2:AH:66:LEU:HD23	1.38	1.03
3:BF:82:CYS:SG	3:BF:135:CYS:CB	2.46	1.03
3:BF:124:ILE:HD13	3:BF:152:MET:HG2	1.34	1.03
3:BF:126:SER:HA	3:BF:223:LYS:NZ	1.72	1.03
3:BI:82:CYS:SG	3:BI:135:CYS:CB	2.46	1.03
3:BK:126:SER:HA	3:BK:223:LYS:NZ	1.72	1.03
3:BQ:82:CYS:SG	3:BQ:135:CYS:CB	2.46	1.03
4:BY:45:TYR:CD2	4:BY:366:VAL:CG1	2.41	1.03
4:BY:77:PRO:HG3	4:BY:287:LEU:HG	1.35	1.03
2:AH:359:PRO:HA	4:BZ:701:ILE:HG12	1.34	1.03
3:BF:315:ARG:HD2	3:BF:317:LEU:HD13	1.34	1.03
3:BJ:143:LYS:HE2	3:BJ:289:TRP:CH2	1.94	1.03
4:BX:30:THR:H	4:BY:33:VAL:HG12	1.13	1.03
4:BX:48:VAL:CB	4:BX:419:VAL:HG11	1.88	1.03
4:BY:51:GLY:H	4:BY:421:LEU:HG	1.15	1.03
2:AL:313:PRO:HD2	3:BP:279:PRO:HB3	1.37	1.03
3:BJ:323:TYR:O	3:BJ:324:TYR:CG	2.10	1.03
4:BY:518:ILE:HD11	4:BY:756:ILE:HD13	1.41	1.03
4:BZ:272:THR:HG22	4:BZ:305:TYR:CE1	1.92	1.03
4:BZ:432:VAL:HG11	4:BZ:448:TYR:HB3	1.04	1.03
1:AA:421:ARG:CG	1:AB:523:VAL:HG21	1.89	1.02
1:AA:714:ARG:HA	1:AA:720:TYR:HB3	1.39	1.02
2:AL:164:PHE:O	3:BP:61:GLY:CA	2.05	1.02
3:BF:172:LEU:HD13	4:BZ:467:ARG:HB2	1.20	1.02
3:BG:261:ILE:CG1	3:BG:285:MET:SD	2.47	1.02
3:BH:63:MET:HG3	3:BH:65:THR:HG23	1.39	1.02
3:BN:261:ILE:CG1	3:BN:285:MET:SD	2.47	1.02
3:BP:64:ASP:O	3:BP:65:THR:CG2	2.06	1.02
3:BQ:261:ILE:CG1	3:BQ:285:MET:SD	2.47	1.02
1:AA:339:LEU:HD22	1:AA:588:ILE:HA	1.40	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:435:ILE:HG22	1:AB:436:ILE:H	1.24	1.02
1:AB:481:ARG:HH11	1:AB:481:ARG:CG	1.71	1.02
2:AF:163:SER:HG	3:BI:61:GLY:C	1.61	1.02
3:BG:82:CYS:SG	3:BG:135:CYS:CB	2.46	1.02
3:BJ:82:CYS:SG	3:BJ:135:CYS:CB	2.46	1.02
3:BJ:126:SER:HA	3:BJ:223:LYS:NZ	1.72	1.02
3:BL:82:CYS:SG	3:BL:135:CYS:CB	2.46	1.02
1:AA:306:ASP:HA	1:AA:614:TYR:CE2	1.93	1.02
1:AB:387:LEU:HD23	1:AB:554:TYR:CE1	1.95	1.02
3:BM:158:LEU:HD11	3:BM:224:LEU:HD11	1.42	1.02
3:BP:126:SER:O	3:BP:129:VAL:HG12	1.60	1.02
4:BZ:9:LEU:HD22	4:BZ:549:MET:HE3	1.37	1.02
4:BZ:651:ILE:CG1	4:BZ:652:SER:H	1.72	1.02
1:AA:199:VAL:HG12	1:AA:200:VAL:H	1.20	1.02
1:AA:568:VAL:HG12	1:AA:569:GLN:H	1.21	1.02
1:AB:745:ALA:HB1	1:AB:748:THR:HB	1.41	1.02
2:AC:163:SER:OG	3:BG:62:SER:CA	2.06	1.02
2:AH:359:PRO:HA	4:BZ:701:ILE:HG13	1.06	1.02
2:AI:168:ARG:NH1	3:BJ:53:TYR:HE2	1.58	1.02
2:AI:299:ASN:CG	3:BM:70:SER:O	1.96	1.02
3:BF:174:TYR:CE1	3:BF:234:ASN:HB3	1.93	1.02
3:BF:261:ILE:CG1	3:BF:285:MET:SD	2.47	1.02
3:BL:70:SER:O	3:BL:71:THR:OG1	1.76	1.02
3:BL:261:ILE:CG1	3:BL:285:MET:SD	2.47	1.02
3:BM:82:CYS:SG	3:BM:135:CYS:CB	2.46	1.02
3:BN:128:SER:CA	3:BN:155:LEU:HD13	1.88	1.02
3:BQ:158:LEU:HD11	3:BQ:224:LEU:HD11	1.42	1.02
4:BY:315:HIS:CD2	4:BY:357:ASP:HA	1.94	1.02
4:BZ:470:LEU:HD21	4:BZ:472:SER:OG	1.59	1.02
1:AA:285:ILE:HD11	1:AA:861:ASP:HB2	1.37	1.02
3:BA:158:LEU:HD11	3:BA:224:LEU:HD11	1.42	1.02
3:BF:158:LEU:HD11	3:BF:224:LEU:HD11	1.42	1.02
3:BG:128:SER:CA	3:BG:155:LEU:HD13	1.90	1.02
3:BJ:257:ASN:OD1	3:BJ:313:ARG:HG3	1.57	1.02
3:BK:300:VAL:O	3:BK:303:VAL:HG23	1.60	1.02
3:BM:261:ILE:CG1	3:BM:285:MET:SD	2.47	1.02
3:BN:159:ILE:HG22	3:BN:258:VAL:HG11	1.42	1.02
3:BO:82:CYS:SG	3:BO:135:CYS:CB	2.46	1.02
3:BP:82:CYS:SG	3:BP:135:CYS:CB	2.46	1.02
4:BZ:410:THR:HG22	4:BZ:411:LEU:H	1.21	1.02
1:AA:250:HIS:CE1	1:AA:840:HIS:HB3	1.95	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:269:ILE:HG22	4:BY:728:LYS:HE2	1.41	1.01
3:BG:158:LEU:HD11	3:BG:224:LEU:HD11	1.42	1.01
3:BH:70:SER:O	3:BH:71:THR:OG1	1.77	1.01
3:BH:82:CYS:SG	3:BH:135:CYS:CB	2.46	1.01
3:BH:261:ILE:CG1	3:BH:285:MET:SD	2.47	1.01
3:BI:300:VAL:O	3:BI:303:VAL:HG23	1.60	1.01
3:BJ:300:VAL:O	3:BJ:303:VAL:HG23	1.60	1.01
3:BL:126:SER:HA	3:BL:223:LYS:NZ	1.72	1.01
3:BO:129:VAL:C	3:BO:131:PRO:HD2	1.80	1.01
3:BP:57:LEU:CB	3:BP:58:PRO:HD3	1.89	1.01
3:BP:261:ILE:CG1	3:BP:285:MET:SD	2.47	1.01
4:BY:50:TRP:HB2	4:BY:356:TRP:HB2	1.42	1.01
3:BA:82:CYS:SG	3:BA:135:CYS:CB	2.46	1.01
3:BA:300:VAL:O	3:BA:303:VAL:HG23	1.60	1.01
3:BF:300:VAL:O	3:BF:303:VAL:HG23	1.60	1.01
3:BG:126:SER:HA	3:BG:223:LYS:NZ	1.72	1.01
3:BK:82:CYS:SG	3:BK:135:CYS:CB	2.46	1.01
3:BO:158:LEU:HD11	3:BO:224:LEU:HD11	1.42	1.01
4:BX:473:LEU:HD21	4:BY:262:TRP:CZ2	1.92	1.01
1:AA:619:ASN:CG	1:AA:675:GLU:HG3	1.80	1.01
1:AA:647:LYS:CE	1:AA:654:ILE:HD13	1.89	1.01
1:AB:573:THR:HG22	1:AB:574:GLU:N	1.75	1.01
2:AG:171:PRO:HB2	3:BJ:314:SER:OG	1.59	1.01
3:BH:300:VAL:O	3:BH:303:VAL:HG23	1.60	1.01
3:BI:261:ILE:CG1	3:BI:285:MET:SD	2.47	1.01
3:BJ:134:TYR:CD2	3:BL:323:TYR:CE2	2.47	1.01
3:BO:300:VAL:O	3:BO:303:VAL:HG23	1.60	1.01
3:BP:126:SER:HA	3:BP:223:LYS:NZ	1.73	1.01
3:BP:300:VAL:O	3:BP:303:VAL:HG23	1.60	1.01
4:BX:29:LYS:HB2	4:BY:33:VAL:HA	1.43	1.01
4:BX:35:ILE:HG21	4:BY:37:LEU:HD13	1.38	1.01
2:AG:313:PRO:HD2	3:BJ:279:PRO:HB3	1.42	1.01
3:BH:158:LEU:HD11	3:BH:224:LEU:HD11	1.42	1.01
3:BI:128:SER:HB2	3:BI:155:LEU:HD13	1.42	1.01
3:BP:251:LYS:O	3:BP:252:LEU:HB2	1.61	1.01
3:BQ:126:SER:HA	3:BQ:223:LYS:HZ1	1.26	1.01
3:BQ:130:ASP:N	3:BQ:131:PRO:HD3	1.66	1.01
4:BZ:272:THR:HG22	4:BZ:305:TYR:CZ	1.96	1.01
2:AI:171:PRO:HD2	3:BJ:322:PHE:CZ	1.95	1.01
2:AI:239:ASN:ND2	3:BL:65:THR:HA	1.76	1.01
3:BF:126:SER:HA	3:BF:223:LYS:HZ1	1.21	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:150:LEU:HD23	3:BG:290:LYS:HD3	1.40	1.01
3:BG:69:ASN:HB2	4:BY:507:ALA:CA	1.89	1.01
3:BI:255:ARG:HD2	3:BI:257:ASN:ND2	1.75	1.01
3:BL:159:ILE:HD12	3:BL:258:VAL:HG13	1.40	1.01
4:BY:50:TRP:HA	4:BY:422:ASN:O	1.61	1.01
2:AH:313:PRO:HD2	3:BK:279:PRO:HB3	1.41	1.00
2:AI:76:ASN:N	2:AM:76:ASN:HB2	1.76	1.00
3:BG:300:VAL:O	3:BG:303:VAL:HG23	1.60	1.00
3:BH:63:MET:HG3	3:BH:65:THR:HG22	1.43	1.00
3:BJ:150:LEU:CD2	3:BK:290:LYS:HB2	1.91	1.00
3:BJ:257:ASN:ND2	3:BJ:313:ARG:HE	1.58	1.00
3:BP:158:LEU:HD11	3:BP:224:LEU:HD11	1.42	1.00
4:BZ:269:ARG:NH2	4:BZ:359:SER:CB	2.22	1.00
1:AA:204:THR:CG2	1:AA:244:ILE:HG13	1.90	1.00
3:BJ:128:SER:HA	3:BJ:155:LEU:HD11	1.39	1.00
3:BQ:300:VAL:O	3:BQ:303:VAL:HG23	1.60	1.00
4:BX:328:PHE:CE1	4:BX:442:THR:CG2	2.42	1.00
4:BY:264:GLU:CA	4:BY:473:LEU:CD2	2.40	1.00
2:AL:38:ILE:HG22	2:AL:42:ASN:HD21	1.25	1.00
2:AL:165:THR:HG23	3:BP:58:PRO:HB3	1.40	1.00
3:BF:174:TYR:CE1	3:BF:198:LEU:HD12	1.95	1.00
3:BG:150:LEU:HD22	3:BH:289:TRP:O	1.59	1.00
4:BX:48:VAL:H	4:BX:419:VAL:CG1	1.73	1.00
4:BY:544:MET:CE	4:BY:653:PRO:CB	2.40	1.00
4:BZ:734:TYR:OH	4:BZ:761:PRO:HB2	1.61	1.00
1:AA:318:TRP:HA	1:AA:321:ILE:HD12	1.44	1.00
2:AC:239:ASN:HA	3:BG:67:TYR:HE2	1.24	1.00
2:AN:202:PRO:HB2	4:BX:577:ARG:CD	1.81	1.00
3:BF:315:ARG:CZ	3:BF:317:LEU:CD2	2.38	1.00
3:BM:300:VAL:O	3:BM:303:VAL:HG23	1.60	1.00
1:AB:718:TYR:HB3	1:AB:721:VAL:HG21	1.44	1.00
3:BL:132:GLN:HA	3:BL:318:ASN:HB3	1.43	1.00
3:BL:300:VAL:O	3:BL:303:VAL:HG23	1.60	1.00
4:BX:537:THR:HG21	4:BX:541:ALA:HB2	1.42	1.00
4:BZ:734:TYR:HE2	4:BZ:761:PRO:HG3	1.24	1.00
3:BN:300:VAL:O	3:BN:303:VAL:HG23	1.60	1.00
4:BY:45:TYR:CG	4:BY:366:VAL:HG11	1.97	1.00
4:BY:694:ARG:HH22	4:BY:701:ILE:HG21	1.25	1.00
1:AA:306:ASP:CA	1:AA:614:TYR:HE2	1.75	1.00
1:AA:546:LEU:HD21	1:AA:588:ILE:HD13	1.43	1.00
1:AB:646:LEU:HA	1:AB:649:LEU:HD12	1.40	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:38:ILE:HG22	2:AI:42:ASN:HD21	1.25	1.00
3:BJ:150:LEU:HD22	3:BK:290:LYS:CB	1.90	1.00
4:BY:681:VAL:HB	4:BY:693:TYR:CD1	1.97	1.00
1:AA:540:LEU:O	1:AA:544:VAL:HG23	1.62	0.99
2:AH:359:PRO:CA	4:BZ:701:ILE:HG13	1.76	0.99
4:BY:252:GLU:C	4:BY:253:ASP:OD1	1.99	0.99
4:BZ:518:ILE:HD11	4:BZ:756:ILE:HD13	1.42	0.99
1:AA:469:ALA:CB	2:AG:71:LEU:CD2	2.39	0.99
2:AL:165:THR:HG23	3:BP:58:PRO:CB	1.92	0.99
2:AL:363:PRO:HG2	4:BX:704:ASP:OD1	1.60	0.99
4:BY:485:THR:CG2	4:BY:485:THR:CA	2.39	0.99
1:AB:573:THR:CG2	1:AB:574:GLU:H	1.76	0.99
2:AC:38:ILE:HG22	2:AC:42:ASN:HD21	1.25	0.99
3:BI:289:TRP:HH2	3:BI:292:TRP:NE1	1.58	0.99
1:AA:647:LYS:HE2	1:AA:654:ILE:HD13	1.43	0.99
4:BX:45:TYR:OH	4:BX:475:PRO:HD3	1.61	0.99
4:BX:66:ASP:HB3	4:BX:285:GLY:C	1.83	0.99
4:BZ:730:LEU:HG	4:BZ:736:ILE:HD11	1.44	0.99
1:AB:428:GLN:HG2	1:AB:456:PHE:HD1	1.28	0.99
3:BI:315:ARG:O	3:BI:315:ARG:HG2	1.61	0.99
3:BJ:322:PHE:CD2	3:BL:313:ARG:HG3	1.96	0.99
1:AA:125:ILE:HG22	1:AA:150:LEU:CD1	1.91	0.99
3:BG:128:SER:CB	3:BG:155:LEU:HD13	1.93	0.99
3:BI:128:SER:HA	3:BI:155:LEU:HD13	1.38	0.99
3:BN:158:LEU:HD11	3:BN:224:LEU:HD11	1.42	0.99
3:BP:257:ASN:HD22	3:BP:313:ARG:HH21	1.08	0.99
4:BX:730:LEU:HG	4:BX:736:ILE:HD11	1.44	0.99
1:AB:511:MET:HE1	2:AJ:70:LEU:HD23	1.00	0.99
3:BF:150:LEU:CD2	3:BG:290:LYS:CD	2.31	0.99
3:BP:168:MET:HE2	3:BP:246:ILE:HG23	1.42	0.99
3:BQ:128:SER:CA	3:BQ:155:LEU:HD13	1.92	0.99
1:AA:513:LEU:HA	1:AA:516:GLN:NE2	1.77	0.99
3:BK:158:LEU:HD11	3:BK:224:LEU:HD11	1.42	0.99
3:BA:267:ASP:O	3:BA:268:VAL:HG23	1.61	0.98
3:BI:153:SER:HB3	3:BI:270:ASP:OD1	1.63	0.98
3:BN:323:TYR:O	3:BN:324:TYR:HB2	1.58	0.98
4:BX:262:TRP:HB2	4:BY:262:TRP:NE1	1.78	0.98
3:BF:159:ILE:HD11	3:BF:260:VAL:HG21	1.45	0.98
3:BI:137:TYR:CD2	3:BI:310:MET:SD	2.56	0.98
3:BQ:63:MET:HG3	3:BQ:65:THR:HG22	1.43	0.98
4:BX:30:THR:H	4:BY:33:VAL:CG1	1.75	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:268:GLN:OE1	4:BX:700:GLU:CB	2.11	0.98
3:BA:69:ASN:ND2	5:A:1:NAG:C1	2.26	0.98
3:BG:126:SER:HA	3:BG:223:LYS:HZ1	1.21	0.98
3:BJ:129:VAL:C	3:BJ:131:PRO:HD3	1.82	0.98
3:BN:251:LYS:O	3:BN:252:LEU:HB2	1.60	0.98
1:AB:466:PHE:CD1	2:AH:80:THR:HG21	1.99	0.98
3:BJ:158:LEU:HD11	3:BJ:224:LEU:HD11	1.42	0.98
4:BX:518:ILE:HD11	4:BX:756:ILE:HD13	1.42	0.98
1:AA:469:ALA:CB	2:AG:71:LEU:HD23	1.93	0.98
1:AB:99:GLU:HB3	1:AB:100:PRO:HD3	1.45	0.98
2:AJ:163:SER:OG	3:BM:61:GLY:O	1.73	0.98
2:AN:202:PRO:HB2	4:BX:577:ARG:CG	1.91	0.98
3:BL:159:ILE:CD1	3:BL:258:VAL:HG11	1.93	0.98
3:BP:313:ARG:HG2	3:BP:316:SER:HB2	1.45	0.98
4:BX:513:ALA:HB2	4:BZ:575:ILE:HB	1.42	0.98
1:AB:180:TYR:CE2	1:AB:850:VAL:HG21	1.99	0.98
1:AB:305:GLN:HG2	1:AB:489:LEU:HD13	1.42	0.98
2:AG:246:THR:CG2	3:BJ:67:TYR:HE2	1.75	0.98
2:AN:202:PRO:CB	4:BX:577:ARG:CD	2.28	0.98
3:BF:150:LEU:HD21	3:BG:290:LYS:HG2	1.42	0.98
2:AF:38:ILE:HG22	2:AF:42:ASN:HD21	1.25	0.98
2:AN:299:ASN:OD1	3:BP:71:THR:CG2	2.10	0.98
3:BF:63:MET:O	3:BF:64:ASP:OD1	1.80	0.98
3:BG:251:LYS:CG	3:BG:252:LEU:N	2.27	0.98
1:AB:511:MET:CE	2:AJ:70:LEU:CD2	2.40	0.98
2:AC:357:VAL:HG23	4:BY:734:TYR:HA	0.99	0.98
2:AC:364:GLY:CA	4:BY:733:ASN:CB	2.42	0.98
4:BX:72:THR:CG2	4:BX:333:LEU:CD1	2.41	0.98
4:BY:580:SER:O	4:BY:597:GLN:HG2	1.63	0.98
1:AA:643:GLU:HG2	1:AA:662:MET:HE1	0.99	0.97
1:AB:498:ARG:HB3	1:AB:505:GLN:HE22	1.29	0.97
3:BN:132:GLN:HA	3:BN:320:ALA:CB	1.93	0.97
3:BP:128:SER:CB	3:BP:155:LEU:CD1	2.41	0.97
4:BY:540:ALA:HB1	4:BY:544:MET:SD	2.03	0.97
2:AH:35:ASN:HA	2:AH:65:LEU:HD22	1.46	0.97
2:AI:171:PRO:HD3	3:BJ:322:PHE:CE2	1.98	0.97
3:BL:159:ILE:HD11	3:BL:260:VAL:HG21	1.45	0.97
3:BO:128:SER:HA	3:BO:155:LEU:HD11	1.46	0.97
1:AA:643:GLU:CG	1:AA:662:MET:HE1	1.93	0.97
2:AE:255:ARG:CD	3:BG:65:THR:HG23	1.92	0.97
2:AG:255:ARG:CD	3:BK:65:THR:OG1	2.12	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:219:THR:HG23	2:AM:283:ARG:O	1.65	0.97
2:AN:202:PRO:O	4:BX:577:ARG:NH2	1.96	0.97
3:BG:128:SER:OG	3:BG:155:LEU:HD13	1.62	0.97
3:BJ:59:ILE:CD1	3:BL:53:TYR:HE2	1.76	0.97
3:BJ:159:ILE:O	3:BJ:255:ARG:HG3	1.65	0.97
3:BN:324:TYR:CD2	3:BN:326:ILE:CG2	2.36	0.97
4:BX:262:TRP:CH2	4:BX:367:TYR:CE2	2.52	0.97
1:AA:119:GLN:HG3	1:AA:120:THR:N	1.78	0.97
2:AH:246:THR:CG2	3:BK:67:TYR:CE2	2.47	0.97
3:BF:104:GLN:HB2	3:BH:205:ILE:HD11	1.47	0.97
3:BL:158:LEU:HD11	3:BL:224:LEU:HD11	1.42	0.97
3:BM:307:ILE:O	3:BM:310:MET:HG2	1.65	0.97
1:AB:318:TRP:HA	1:AB:321:ILE:HD12	1.46	0.97
2:AC:356:PRO:CA	4:BY:735:GLY:HA3	1.94	0.97
2:AG:202:PRO:HG2	4:BZ:577:ARG:HH21	0.81	0.97
3:BK:271:ILE:O	3:BK:272:THR:O	1.82	0.97
4:BZ:591:TRP:HA	4:BZ:618:ARG:HD2	1.47	0.97
4:BZ:679:ASP:HB3	4:BZ:695:VAL:HG11	1.43	0.97
1:AA:473:HIS:HD2	2:AG:71:LEU:HD13	1.29	0.97
3:BF:307:ILE:O	3:BF:310:MET:HG2	1.65	0.97
3:BG:205:ILE:HD11	3:BH:104:GLN:HB2	1.47	0.97
3:BI:310:MET:O	3:BI:311:SER:HB2	1.62	0.97
3:BJ:307:ILE:O	3:BJ:310:MET:HG2	1.65	0.97
3:BO:205:ILE:HD11	3:BP:104:GLN:HB2	1.47	0.97
4:BX:734:TYR:HE1	4:BX:762:ILE:HG13	1.19	0.97
4:BZ:410:THR:O	4:BZ:424:LEU:HB3	1.63	0.97
1:AB:630:ARG:HD2	2:AL:71:LEU:CD1	1.94	0.97
2:AC:356:PRO:HA	4:BY:735:GLY:CA	1.95	0.97
2:AH:220:THR:HG22	2:AH:220:THR:O	1.65	0.97
2:AK:220:THR:HG22	2:AK:220:THR:O	1.65	0.97
2:AL:313:PRO:HD2	3:BP:279:PRO:CB	1.94	0.97
3:BF:172:LEU:CD2	4:BZ:466:GLY:HA2	1.95	0.97
3:BG:59:ILE:HG22	3:BG:60:THR:N	1.79	0.97
3:BI:104:GLN:HB2	3:BK:205:ILE:HD11	1.47	0.97
4:BX:35:ILE:CG2	4:BY:37:LEU:HD13	1.94	0.97
1:AA:181:LEU:HG	1:AA:182:LEU:H	1.28	0.97
1:AB:454:THR:HG23	1:AB:455:PRO:HD2	1.44	0.97
3:BQ:128:SER:HA	3:BQ:155:LEU:HD11	1.46	0.97
4:BX:617:ARG:HA	4:BX:620:ARG:NE	1.79	0.97
2:AE:203:ALA:C	4:BY:775:ARG:NH2	2.18	0.97
3:BA:128:SER:HA	3:BA:155:LEU:HD11	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AJ:163:SER:HG	3:BM:61:GLY:C	1.62	0.96
3:BA:307:ILE:O	3:BA:310:MET:HG2	1.64	0.96
3:BM:272:THR:HG21	3:BM:277:THR:HG22	1.46	0.96
3:BN:307:ILE:O	3:BN:310:MET:HG2	1.63	0.96
3:BO:162:GLU:HB3	3:BO:253:GLY:O	1.65	0.96
4:BX:9:LEU:HD22	4:BX:549:MET:HE3	1.42	0.96
4:BX:37:LEU:HD11	4:BY:40:PHE:HE1	1.28	0.96
4:BY:49:ASN:HB3	4:BY:421:LEU:HD12	1.44	0.96
3:BL:104:GLN:HB2	3:BN:205:ILE:HD11	1.47	0.96
1:AB:405:ILE:CG2	1:AB:536:LEU:HD11	1.94	0.96
1:AB:451:ASP:H	1:AB:452:PRO:CD	1.77	0.96
2:AI:171:PRO:CD	3:BJ:322:PHE:HE2	1.67	0.96
2:AJ:163:SER:CB	3:BM:62:SER:HA	1.94	0.96
2:AL:220:THR:O	2:AL:220:THR:HG22	1.65	0.96
3:BF:251:LYS:HG3	3:BF:252:LEU:H	1.14	0.96
3:BF:315:ARG:NH1	3:BF:317:LEU:HD22	1.79	0.96
3:BI:80:THR:HB	3:BI:117:TYR:HE1	1.30	0.96
3:BL:149:GLN:HE21	3:BL:269:LEU:CD2	1.78	0.96
3:BO:55:ILE:HD11	3:BO:322:PHE:CD2	2.00	0.96
3:BP:268:VAL:HG11	3:BQ:267:ASP:O	1.65	0.96
4:BZ:538:ILE:HG22	4:BZ:539:ASP:H	0.82	0.96
4:BZ:651:ILE:HG13	4:BZ:652:SER:H	0.81	0.96
1:AB:804:SER:HA	1:AB:810:TYR:HE1	1.30	0.96
2:AD:220:THR:O	2:AD:220:THR:HG22	1.65	0.96
3:BF:129:VAL:HG13	3:BF:187:MET:HG3	1.47	0.96
4:BX:716:PRO:CD	4:BY:750:ARG:HH21	1.79	0.96
2:AE:203:ALA:HA	4:BY:775:ARG:NH1	1.77	0.96
2:AO:219:THR:HG23	2:AO:283:ARG:O	1.65	0.96
3:BF:205:ILE:HD11	3:BG:104:GLN:HB2	1.47	0.96
3:BN:132:GLN:CA	3:BN:320:ALA:HB3	1.95	0.96
1:AA:285:ILE:HD11	1:AA:861:ASP:CB	1.95	0.96
1:AB:743:ASP:C	1:AB:744:TYR:HD2	1.66	0.96
2:AD:219:THR:HG23	2:AD:283:ARG:O	1.65	0.96
2:AF:219:THR:HG23	2:AF:283:ARG:O	1.65	0.96
2:AJ:219:THR:HG23	2:AJ:283:ARG:O	1.65	0.96
3:BO:104:GLN:HB2	3:BQ:205:ILE:HD11	1.47	0.96
2:AK:219:THR:HG23	2:AK:283:ARG:O	1.65	0.96
2:AN:219:THR:HG23	2:AN:283:ARG:O	1.65	0.96
3:BG:307:ILE:O	3:BG:310:MET:HG2	1.64	0.96
3:BK:310:MET:HG3	3:BK:311:SER:H	0.79	0.96
3:BO:128:SER:CA	3:BO:155:LEU:CD1	2.43	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:307:ILE:O	3:BP:310:MET:HG2	1.65	0.96
4:BY:359:SER:CB	4:BY:362:PHE:HD1	1.79	0.96
1:AA:324:SER:OG	1:AA:651:ILE:HD13	1.64	0.96
2:AH:219:THR:HG23	2:AH:283:ARG:O	1.65	0.96
4:BX:482:THR:O	4:BX:482:THR:HG22	1.63	0.96
2:AG:246:THR:HG22	3:BJ:67:TYR:HE2	1.30	0.96
2:AI:219:THR:HG23	2:AI:283:ARG:O	1.65	0.96
3:BG:128:SER:CA	3:BG:155:LEU:CD1	2.42	0.96
3:BG:313:ARG:HG2	3:BO:322:PHE:CD1	2.01	0.96
3:BQ:128:SER:CA	3:BQ:155:LEU:CD1	2.42	0.96
4:BX:72:THR:HB	4:BX:333:LEU:HD11	1.45	0.96
4:BZ:730:LEU:O	4:BZ:734:TYR:HD1	1.47	0.96
3:BA:128:SER:CA	3:BA:155:LEU:CD1	2.42	0.96
3:BH:251:LYS:CG	3:BH:252:LEU:N	2.29	0.96
4:BX:701:ILE:HD13	4:BX:702:PRO:HD2	1.47	0.96
4:BY:42:GLN:HB2	4:BZ:329:ASN:O	1.65	0.96
1:AA:654:ILE:HG13	1:AA:655:SER:H	1.20	0.95
1:AB:508:GLU:HG2	1:AB:512:GLN:HE21	1.23	0.95
3:BJ:64:ASP:C	3:BJ:65:THR:HG22	1.87	0.95
4:BX:483:PRO:O	4:BX:484:ILE:HG13	1.65	0.95
4:BZ:540:ALA:O	4:BZ:544:MET:HB2	1.66	0.95
1:AA:421:ARG:HG2	1:AB:523:VAL:HG21	1.46	0.95
2:AG:219:THR:HG23	2:AG:283:ARG:O	1.65	0.95
2:AO:23:LEU:HD23	2:AO:24:TYR:N	1.82	0.95
3:BF:69:ASN:HD21	5:B:1:NAG:C1	1.71	0.95
3:BI:164:LEU:HD12	3:BI:322:PHE:HD2	1.30	0.95
3:BL:251:LYS:O	3:BL:252:LEU:CB	2.14	0.95
2:AI:220:THR:O	2:AI:220:THR:HG22	1.65	0.95
3:BQ:174:TYR:CD1	3:BQ:234:ASN:HB3	2.01	0.95
4:BZ:264:GLU:HB3	4:BZ:473:LEU:HA	1.48	0.95
4:BZ:618:ARG:O	4:BZ:622:LYS:HB3	1.65	0.95
3:BA:116:VAL:CG1	3:BA:116:VAL:CA	2.44	0.95
3:BK:251:LYS:CG	3:BK:252:LEU:N	2.30	0.95
3:BQ:307:ILE:O	3:BQ:310:MET:HG2	1.65	0.95
2:AE:270:ILE:C	4:BY:728:LYS:HE3	1.86	0.95
2:AF:220:THR:O	2:AF:220:THR:HG22	1.65	0.95
2:AL:219:THR:HG23	2:AL:283:ARG:O	1.65	0.95
3:BA:125:ALA:HB1	3:BA:223:LYS:HD3	0.95	0.95
3:BM:251:LYS:CG	3:BM:252:LEU:N	2.30	0.95
3:BN:128:SER:CA	3:BN:155:LEU:CD1	2.44	0.95
1:AA:125:ILE:HG22	1:AA:150:LEU:HD11	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:518:PHE:CB	1:AB:519:PRO:HD2	1.95	0.95
2:AC:220:THR:HG22	2:AC:220:THR:O	1.65	0.95
2:AI:53:ASN:ND2	4:BX:697:THR:HA	1.82	0.95
2:AL:306:ALA:CB	3:BQ:282:GLU:OE2	2.14	0.95
2:AM:220:THR:O	2:AM:220:THR:HG22	1.65	0.95
3:BF:125:ALA:HB1	3:BF:223:LYS:HD3	0.96	0.95
3:BH:125:ALA:HB1	3:BH:223:LYS:HD3	0.95	0.95
3:BH:307:ILE:O	3:BH:310:MET:HG2	1.64	0.95
3:BG:272:THR:CG2	3:BG:277:THR:HG22	1.97	0.95
3:BM:174:TYR:CD1	3:BM:234:ASN:HB3	2.01	0.95
3:BM:174:TYR:HE1	3:BM:234:ASN:CB	1.79	0.95
3:BA:127:PHE:HD2	3:BA:155:LEU:HD21	1.12	0.95
3:BL:307:ILE:O	3:BL:310:MET:HG2	1.67	0.95
1:AB:444:ARG:HH21	1:AB:520:THR:HG23	1.29	0.95
1:AB:498:ARG:HB3	1:AB:505:GLN:NE2	1.80	0.95
2:AC:219:THR:HG23	2:AC:283:ARG:O	1.65	0.95
2:AL:126:ARG:HG3	2:AL:126:ARG:NH1	1.70	0.95
3:BH:69:ASN:HD21	5:C:1:NAG:C1	1.65	0.95
3:BJ:134:TYR:CD2	3:BL:323:TYR:CD2	2.55	0.95
3:BM:64:ASP:O	3:BM:65:THR:HG22	1.65	0.95
3:BM:272:THR:HG21	3:BM:277:THR:CG2	1.97	0.95
1:AA:262:VAL:CG2	1:AA:848:PHE:HE2	1.78	0.95
2:AI:163:SER:CB	3:BL:62:SER:HA	1.89	0.95
2:AI:171:PRO:CD	3:BJ:322:PHE:CZ	2.48	0.95
3:BJ:59:ILE:HD11	3:BL:53:TYR:CE2	2.02	0.95
3:BP:251:LYS:CG	3:BP:252:LEU:N	2.29	0.95
2:AE:219:THR:HG23	2:AE:283:ARG:O	1.65	0.94
2:AE:220:THR:HG22	2:AE:220:THR:O	1.65	0.94
3:BA:252:LEU:HG	3:BA:253:GLY:N	1.82	0.94
3:BH:128:SER:HA	3:BH:155:LEU:HD13	1.34	0.94
3:BH:269:LEU:HD23	3:BH:271:ILE:HG22	1.49	0.94
3:BQ:125:ALA:HB1	3:BQ:223:LYS:HD3	0.95	0.94
4:BX:493:ASP:OD1	4:BX:494:LEU:N	2.00	0.94
1:AB:163:ARG:O	1:AB:631:LEU:HD21	1.66	0.94
2:AE:163:SER:CB	3:BF:62:SER:HA	1.85	0.94
2:AI:170:GLN:HB2	3:BJ:322:PHE:HZ	1.28	0.94
2:AN:220:THR:HG22	2:AN:220:THR:O	1.65	0.94
3:BF:172:LEU:HD13	4:BZ:467:ARG:HB3	1.46	0.94
3:BG:315:ARG:O	3:BG:315:ARG:HG2	1.14	0.94
3:BK:125:ALA:HB1	3:BK:223:LYS:HD3	0.95	0.94
4:BY:264:GLU:CB	4:BY:473:LEU:HD21	1.96	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:125:ALA:HB1	3:BN:223:LYS:HD3	0.95	0.94
3:BN:133:LEU:N	3:BN:320:ALA:HB2	1.82	0.94
1:AB:462:GLN:HA	2:AH:63:PHE:O	1.66	0.94
2:AI:167:ASN:O	3:BJ:52:ASN:N	2.01	0.94
2:AM:306:ALA:CB	3:BO:282:GLU:OE2	2.14	0.94
2:AO:220:THR:O	2:AO:220:THR:HG22	1.65	0.94
3:BL:64:ASP:C	3:BL:65:THR:HG22	1.86	0.94
3:BN:128:SER:HA	3:BN:155:LEU:HD11	1.45	0.94
4:BX:45:TYR:CE2	4:BX:262:TRP:HH2	1.82	0.94
2:AI:165:THR:HG23	3:BL:59:ILE:O	1.68	0.94
2:AJ:220:THR:O	2:AJ:220:THR:HG22	1.65	0.94
3:BA:129:VAL:O	3:BA:131:PRO:HD2	1.66	0.94
3:BA:252:LEU:CG	3:BA:253:GLY:H	1.76	0.94
3:BF:159:ILE:CD1	3:BF:258:VAL:HG11	1.95	0.94
3:BJ:205:ILE:HD11	3:BK:104:GLN:HB2	1.47	0.94
3:BK:256:GLU:HG2	3:BK:313:ARG:O	1.68	0.94
3:BL:251:LYS:HG3	3:BL:252:LEU:H	1.14	0.94
4:BY:478:ASP:C	4:BY:478:ASP:OD1	2.05	0.94
3:BA:251:LYS:HG3	3:BA:252:LEU:H	1.03	0.94
3:BK:272:THR:HG21	3:BK:277:THR:HG22	1.48	0.94
3:BK:307:ILE:O	3:BK:310:MET:HG2	1.67	0.94
3:BO:174:TYR:HE1	3:BO:234:ASN:CB	1.81	0.94
3:BP:168:MET:HE3	3:BP:175:TYR:CZ	2.02	0.94
3:BP:205:ILE:HD11	3:BQ:104:GLN:HB2	1.47	0.94
4:BX:734:TYR:HE1	4:BX:762:ILE:CG1	1.80	0.94
1:AA:473:HIS:CD2	2:AG:71:LEU:HD13	2.03	0.94
1:AB:450:GLY:O	1:AB:451:ASP:OD1	1.86	0.94
3:BN:159:ILE:O	3:BN:255:ARG:HG3	1.66	0.94
3:BO:55:ILE:CD1	3:BO:322:PHE:HD2	1.80	0.94
3:BP:174:TYR:HE1	3:BP:234:ASN:CB	1.81	0.94
1:AA:452:PRO:HG2	1:AB:521:MET:O	1.67	0.94
2:AC:106:ARG:HD3	2:AC:106:ARG:H	1.32	0.94
2:AG:220:THR:O	2:AG:220:THR:HG22	1.65	0.94
2:AI:106:ARG:H	2:AI:106:ARG:HD3	1.32	0.94
3:BF:251:LYS:O	3:BF:252:LEU:CB	2.13	0.94
3:BG:116:VAL:HG12	3:BG:117:TYR:N	1.80	0.94
3:BI:82:CYS:HG	3:BI:117:TYR:HD1	1.06	0.94
3:BI:132:GLN:HB3	3:BI:319:SER:CB	1.98	0.94
3:BK:174:TYR:HE1	3:BK:234:ASN:CB	1.81	0.94
3:BK:257:ASN:OD1	3:BK:313:ARG:HG2	1.68	0.94
3:BM:125:ALA:HB1	3:BM:223:LYS:HD3	0.95	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:409:VAL:HG12	4:BZ:426:PHE:HD2	1.19	0.94
1:AB:654:ILE:CG1	1:AB:655:SER:H	1.72	0.94
1:AB:744:TYR:HD2	1:AB:744:TYR:N	1.61	0.94
2:AC:295:MET:CE	3:BH:67:TYR:CD1	2.51	0.94
2:AL:106:ARG:H	2:AL:106:ARG:HD3	1.32	0.94
3:BA:251:LYS:CG	3:BA:252:LEU:N	2.27	0.94
3:BK:64:ASP:O	3:BK:65:THR:CG2	2.15	0.94
3:BK:263:VAL:HG12	3:BK:289:TRP:HB2	1.48	0.94
3:BL:251:LYS:CG	3:BL:252:LEU:N	2.30	0.94
3:BM:205:ILE:HD11	3:BN:104:GLN:HB2	1.47	0.94
3:BQ:174:TYR:HE1	3:BQ:234:ASN:CB	1.81	0.94
4:BX:45:TYR:CE2	4:BX:262:TRP:CZ3	2.56	0.94
1:AB:451:ASP:H	1:AB:452:PRO:HD2	1.32	0.94
2:AE:269:ILE:HD13	4:BY:725:LYS:HD3	0.94	0.94
3:BA:271:ILE:O	3:BA:271:ILE:HG22	1.68	0.94
3:BL:69:ASN:HD21	4:BX:507:ALA:HA	1.28	0.94
3:BL:125:ALA:HB1	3:BL:223:LYS:HD3	0.96	0.94
3:BO:257:ASN:HD21	3:BO:313:ARG:HD3	0.77	0.94
4:BZ:594:VAL:O	4:BZ:598:ILE:HG22	1.67	0.94
1:AA:717:MET:SD	1:AA:829:ILE:CG2	2.56	0.93
3:BI:129:VAL:C	3:BI:131:PRO:HD2	1.87	0.93
3:BJ:52:ASN:HD22	3:BL:58:PRO:HA	1.28	0.93
3:BJ:174:TYR:HE1	3:BJ:234:ASN:CB	1.81	0.93
2:AF:106:ARG:HD3	2:AF:106:ARG:H	1.32	0.93
2:AL:255:ARG:NH2	3:BQ:67:TYR:HE1	1.65	0.93
2:AN:306:ALA:HB2	3:BP:282:GLU:OE2	1.68	0.93
3:BJ:310:MET:CG	3:BJ:311:SER:H	1.81	0.93
4:BY:359:SER:HB2	4:BY:362:PHE:HD1	0.92	0.93
4:BY:544:MET:HE1	4:BY:653:PRO:HB2	1.50	0.93
4:BY:584:VAL:H	4:BY:596:THR:HG21	1.30	0.93
3:BF:251:LYS:CG	3:BF:252:LEU:N	2.29	0.93
3:BG:267:ASP:OD1	3:BG:286:ARG:HD2	1.67	0.93
3:BI:174:TYR:HE1	3:BI:234:ASN:CB	1.81	0.93
3:BJ:321:ALA:CB	3:BJ:325:ARG:NE	2.30	0.93
3:BL:127:PHE:HD2	3:BL:155:LEU:HD21	1.12	0.93
2:AH:76:ASN:HB2	2:AJ:76:ASN:CB	1.98	0.93
3:BG:125:ALA:HB1	3:BG:223:LYS:HD3	0.95	0.93
3:BG:316:SER:CB	3:BO:324:TYR:CB	2.31	0.93
3:BJ:251:LYS:CG	3:BJ:252:LEU:N	2.29	0.93
4:BY:617:ARG:HG3	4:BY:620:ARG:HH21	1.30	0.93
1:AA:428:GLN:HB2	1:AA:456:PHE:CE1	2.04	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:168:ARG:HB3	3:BJ:53:TYR:OH	1.68	0.93
3:BQ:63:MET:HG3	3:BQ:65:THR:CG2	1.97	0.93
4:BX:35:ILE:HG13	4:BY:37:LEU:CD1	1.99	0.93
4:BX:262:TRP:CZ3	4:BX:367:TYR:HD2	1.86	0.93
1:AB:119:GLN:HG2	1:AB:181:LEU:HD21	1.49	0.93
3:BM:126:SER:HA	3:BM:223:LYS:HZ1	1.25	0.93
3:BM:267:ASP:HB3	3:BM:286:ARG:NH1	1.82	0.93
1:AA:464:GLN:HG3	2:AF:39:ILE:CD1	1.98	0.93
1:AA:473:HIS:CD2	2:AG:71:LEU:CD1	2.51	0.93
2:AG:313:PRO:HD2	3:BJ:279:PRO:CB	1.98	0.93
3:BG:127:PHE:HD2	3:BG:155:LEU:HD21	1.12	0.93
3:BQ:158:LEU:HD12	3:BQ:224:LEU:HD21	1.51	0.93
1:AA:660:ASP:HB3	1:AB:539:ARG:HH11	1.33	0.93
3:BP:158:LEU:HD12	3:BP:224:LEU:HD21	1.51	0.93
4:BY:307:ARG:NH1	4:BY:312:VAL:HG21	1.82	0.93
3:BF:127:PHE:HD2	3:BF:155:LEU:HD21	1.12	0.93
3:BJ:125:ALA:HB1	3:BJ:223:LYS:HD3	0.95	0.93
3:BJ:127:PHE:HD2	3:BJ:155:LEU:HD21	1.12	0.93
3:BJ:175:TYR:OH	3:BJ:237:LEU:HD23	1.69	0.93
3:BL:167:PRO:HB3	3:BL:323:TYR:CE1	2.04	0.93
3:BL:174:TYR:CD1	3:BL:234:ASN:HB3	2.04	0.93
3:BL:174:TYR:HE1	3:BL:234:ASN:CB	1.81	0.93
3:BP:125:ALA:HB1	3:BP:223:LYS:HD3	0.93	0.93
3:BP:174:TYR:CD1	3:BP:234:ASN:HB3	2.04	0.93
1:AB:503:VAL:HG11	1:AB:544:VAL:HG13	1.50	0.93
2:AI:239:ASN:HB3	3:BL:67:TYR:CZ	2.04	0.93
2:AL:255:ARG:NH2	3:BQ:67:TYR:CE1	2.37	0.93
3:BN:127:PHE:HD2	3:BN:155:LEU:HD21	1.12	0.93
1:AA:864:GLU:OE1	1:AA:865:PRO:HD2	1.67	0.92
2:AG:246:THR:HG22	3:BJ:67:TYR:CE2	2.03	0.92
2:AK:106:ARG:HG2	2:AK:107:ASN:H	1.27	0.92
3:BO:127:PHE:HD2	3:BO:155:LEU:HD21	1.11	0.92
3:BP:96:ASN:HB2	4:BX:39:PRO:CB	2.00	0.92
3:BQ:166:ASN:O	3:BQ:247:ARG:HG3	1.69	0.92
1:AB:428:GLN:HG2	1:AB:456:PHE:CD1	2.03	0.92
1:AB:509:ALA:O	1:AB:513:LEU:HG	1.68	0.92
3:BG:251:LYS:HG3	3:BG:252:LEU:H	1.11	0.92
1:AB:456:PHE:CZ	1:AB:471:TRP:CZ3	2.57	0.92
1:AB:537:SER:O	1:AB:540:LEU:HB3	1.69	0.92
3:BA:128:SER:HB3	3:BA:155:LEU:HD13	1.50	0.92
3:BJ:52:ASN:OD1	3:BL:59:ILE:HD12	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:174:TYR:CD1	3:BJ:234:ASN:HB3	2.04	0.92
3:BN:315:ARG:HG3	3:BN:316:SER:H	0.75	0.92
3:BO:158:LEU:HD12	3:BO:224:LEU:HD21	1.51	0.92
3:BP:175:TYR:OH	3:BP:237:LEU:HD23	1.69	0.92
4:BX:35:ILE:CG2	4:BY:37:LEU:CD1	2.46	0.92
4:BY:572:ALA:HB2	4:BZ:516:GLN:HB2	1.51	0.92
1:AB:548:ARG:NH1	1:AB:878:ASN:H	1.68	0.92
2:AF:306:ALA:HB2	3:BJ:282:GLU:OE2	1.67	0.92
3:BF:128:SER:HB3	3:BF:155:LEU:HD13	1.51	0.92
4:BY:263:LYS:HD2	4:BY:477:ASN:OD1	1.69	0.92
4:BY:355:TYR:CE2	4:BY:424:LEU:HD12	2.04	0.92
2:AE:269:ILE:HG12	4:BY:725:LYS:NZ	1.85	0.92
3:BJ:53:TYR:HB3	3:BL:55:ILE:HG12	1.49	0.92
3:BO:310:MET:CG	3:BO:311:SER:H	1.82	0.92
1:AB:744:TYR:N	1:AB:744:TYR:CD2	2.31	0.92
2:AC:356:PRO:CA	4:BY:734:TYR:O	2.17	0.92
2:AH:246:THR:HG22	3:BK:67:TYR:CE2	2.03	0.92
3:BG:158:LEU:HD12	3:BG:224:LEU:HD21	1.51	0.92
3:BK:261:ILE:HG13	3:BK:285:MET:HG3	1.49	0.92
3:BO:268:VAL:HG12	3:BO:269:LEU:H	1.14	0.92
2:AE:203:ALA:O	4:BY:775:ARG:NH2	2.03	0.92
2:AN:313:PRO:HD2	3:BO:279:PRO:HB3	1.50	0.92
3:BO:175:TYR:OH	3:BO:237:LEU:HD23	1.69	0.92
1:AA:371:ASN:HA	1:AA:374:ALA:HB3	1.52	0.92
1:AA:421:ARG:HG2	1:AB:523:VAL:CG2	1.99	0.92
2:AD:241:ALA:HB1	3:BH:59:ILE:HG21	1.51	0.92
2:AH:255:ARG:CZ	3:BI:65:THR:OG1	2.17	0.92
3:BK:174:TYR:CD1	3:BK:234:ASN:HB3	2.04	0.92
3:BK:252:LEU:HG	3:BK:253:GLY:H	1.35	0.92
4:BX:328:PHE:CZ	4:BX:442:THR:CG2	2.53	0.92
4:BY:47:PRO:HB2	4:BY:419:VAL:HG13	0.92	0.92
4:BY:488:VAL:HG13	4:BY:489:THR:N	1.82	0.92
1:AA:428:GLN:HB2	1:AA:456:PHE:CD1	2.05	0.92
2:AK:145:ARG:HD2	2:AL:143:ASN:CA	2.00	0.92
3:BI:268:VAL:HG12	3:BI:269:LEU:N	1.82	0.92
3:BQ:251:LYS:O	3:BQ:252:LEU:HB2	1.70	0.92
4:BX:262:TRP:CH2	4:BX:367:TYR:HE2	1.88	0.92
4:BX:482:THR:N	4:BX:483:PRO:HD3	1.84	0.92
4:BY:45:TYR:HE2	4:BY:474:VAL:HG22	1.32	0.92
1:AB:200:VAL:CG2	1:AB:243:SER:HB3	2.00	0.92
3:BF:159:ILE:CD1	3:BF:260:VAL:CG2	2.48	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:322:PHE:HD2	3:BL:313:ARG:HG3	1.33	0.92
4:BY:407:ALA:HB3	4:BY:427:ARG:O	1.69	0.92
4:BY:618:ARG:HA	4:BY:622:LYS:HD2	1.52	0.92
1:AA:725:ARG:NH2	1:AA:829:ILE:HD12	1.85	0.91
2:AK:203:ALA:HA	4:BX:775:ARG:HH22	1.33	0.91
2:AN:255:ARG:CZ	3:BP:65:THR:OG1	2.18	0.91
3:BG:129:VAL:HG13	3:BG:187:MET:CG	2.00	0.91
3:BJ:158:LEU:HD12	3:BJ:224:LEU:HD21	1.51	0.91
3:BO:153:SER:HA	3:BO:269:LEU:HD11	1.48	0.91
4:BY:679:ASP:HB3	4:BY:695:VAL:HG12	1.48	0.91
1:AA:113:PRO:HG2	1:AA:609:ASN:HB3	1.53	0.91
2:AC:238:ILE:HG23	3:BG:63:MET:HE3	1.51	0.91
2:AI:75:ALA:HB3	2:AM:76:ASN:HA	1.50	0.91
3:BH:128:SER:HB3	3:BH:155:LEU:HD13	1.51	0.91
3:BH:158:LEU:HD12	3:BH:224:LEU:HD21	1.51	0.91
3:BK:158:LEU:HD12	3:BK:224:LEU:HD21	1.51	0.91
3:BK:175:TYR:OH	3:BK:237:LEU:HD23	1.69	0.91
3:BL:158:LEU:HD12	3:BL:224:LEU:HD21	1.51	0.91
3:BM:87:THR:OG1	3:BM:122:THR:HG22	1.71	0.91
3:BO:55:ILE:HG12	3:BO:322:PHE:CB	2.00	0.91
3:BO:315:ARG:NH1	3:BO:323:TYR:CD2	2.38	0.91
4:BY:601:VAL:O	4:BY:601:VAL:CG1	2.14	0.91
3:BI:251:LYS:CG	3:BI:252:LEU:N	2.30	0.91
3:BK:87:THR:OG1	3:BK:122:THR:HG22	1.71	0.91
3:BK:128:SER:HA	3:BK:155:LEU:HD13	1.35	0.91
3:BK:251:LYS:O	3:BK:252:LEU:CB	2.17	0.91
3:BL:290:LYS:HB2	3:BN:150:LEU:CD2	2.00	0.91
3:BM:175:TYR:OH	3:BM:237:LEU:HD23	1.69	0.91
3:BO:268:VAL:CG2	3:BP:286:ARG:HH12	1.84	0.91
1:AB:481:ARG:H	1:AB:481:ARG:HD2	1.34	0.91
1:AB:481:ARG:NE	2:AI:65:LEU:HD13	1.83	0.91
2:AC:356:PRO:C	4:BY:734:TYR:O	2.08	0.91
2:AL:241:ALA:CB	3:BP:59:ILE:HG22	2.00	0.91
3:BP:127:PHE:HD2	3:BP:155:LEU:HD21	1.11	0.91
3:BP:159:ILE:O	3:BP:255:ARG:HG3	1.69	0.91
3:BF:127:PHE:CE2	3:BF:155:LEU:HD21	2.06	0.91
3:BG:87:THR:OG1	3:BG:122:THR:HG22	1.70	0.91
3:BJ:87:THR:OG1	3:BJ:122:THR:HG22	1.71	0.91
3:BO:272:THR:HG21	3:BO:277:THR:HG22	1.52	0.91
3:BP:64:ASP:C	3:BP:65:THR:HG22	1.87	0.91
4:BY:38:GLY:H	4:BY:39:PRO:CD	1.84	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:364:GLY:HA2	4:BY:733:ASN:OD1	1.71	0.91
3:BH:87:THR:OG1	3:BH:122:THR:HG22	1.71	0.91
3:BI:87:THR:OG1	3:BI:122:THR:HG22	1.71	0.91
3:BP:168:MET:HE2	3:BP:246:ILE:CG2	2.00	0.91
2:AK:169:SER:O	3:BP:52:ASN:HB2	1.69	0.91
2:AL:126:ARG:HH11	2:AL:126:ARG:CG	1.83	0.91
3:BF:144:TYR:CE2	3:BF:146:ALA:HB2	2.06	0.91
3:BL:87:THR:OG1	3:BL:122:THR:HG22	1.71	0.91
3:BM:251:LYS:HG3	3:BM:252:LEU:H	1.14	0.91
3:BQ:87:THR:OG1	3:BQ:122:THR:HG22	1.71	0.91
1:AA:464:GLN:HG3	2:AF:39:ILE:HD13	1.50	0.91
3:BA:158:LEU:HD12	3:BA:224:LEU:HD21	1.51	0.91
3:BG:127:PHE:CE2	3:BG:155:LEU:HD21	2.06	0.91
3:BN:158:LEU:HD12	3:BN:224:LEU:HD21	1.51	0.91
3:BO:87:THR:OG1	3:BO:122:THR:HG22	1.71	0.91
3:BO:174:TYR:CD1	3:BO:234:ASN:HB3	2.04	0.91
3:BQ:144:TYR:CE2	3:BQ:146:ALA:HB2	2.06	0.91
4:BX:72:THR:CG2	4:BX:333:LEU:HD12	1.99	0.91
2:AL:255:ARG:HH21	3:BQ:67:TYR:HE1	0.91	0.91
3:BI:164:LEU:HD12	3:BI:322:PHE:CD2	2.05	0.91
3:BK:128:SER:HB3	3:BK:155:LEU:HD13	1.52	0.91
4:BY:77:PRO:CG	4:BY:287:LEU:HG	1.99	0.91
2:AH:255:ARG:NE	3:BI:65:THR:OG1	2.04	0.91
3:BH:251:LYS:HG3	3:BH:252:LEU:H	1.12	0.91
3:BI:144:TYR:CE2	3:BI:146:ALA:HB2	2.06	0.91
3:BJ:144:TYR:CE2	3:BJ:146:ALA:HB2	2.06	0.91
3:BK:261:ILE:HD11	3:BK:287:ILE:HD11	1.52	0.91
3:BN:251:LYS:HG3	3:BN:252:LEU:H	1.15	0.91
4:BX:734:TYR:OH	4:BX:761:PRO:HB2	1.69	0.91
4:BY:488:VAL:HG13	4:BY:489:THR:H	1.35	0.91
1:AB:471:TRP:HB2	1:AB:512:GLN:OE1	1.70	0.90
2:AG:241:ALA:HB3	3:BJ:59:ILE:HD13	1.52	0.90
3:BF:87:THR:OG1	3:BF:122:THR:HG22	1.71	0.90
3:BJ:251:LYS:HG3	3:BJ:252:LEU:H	1.11	0.90
3:BL:159:ILE:CD1	3:BL:260:VAL:CG2	2.48	0.90
4:BY:573:SER:HB2	4:BZ:643:THR:HG23	1.51	0.90
3:BI:174:TYR:CD1	3:BI:234:ASN:HB3	2.04	0.90
4:BZ:272:THR:HB	4:BZ:307:ARG:NH2	1.85	0.90
1:AA:646:LEU:HD21	1:AA:665:LEU:CD2	2.00	0.90
1:AB:432:ILE:HA	1:AB:436:ILE:CD1	2.00	0.90
1:AB:481:ARG:HH11	1:AB:481:ARG:HG2	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:364:GLY:CA	4:BY:733:ASN:CG	2.39	0.90
2:AF:57:ARG:HH11	2:AF:94:ASN:HD21	1.19	0.90
2:AH:246:THR:HG22	3:BK:67:TYR:HE2	1.33	0.90
2:AJ:239:ASN:ND2	3:BM:65:THR:HA	1.86	0.90
3:BJ:127:PHE:CE2	3:BJ:155:LEU:HD21	2.06	0.90
3:BO:144:TYR:CE2	3:BO:146:ALA:HB2	2.06	0.90
4:BX:760:ASN:N	4:BX:761:PRO:HD3	1.85	0.90
4:BY:263:LYS:HB2	4:BY:477:ASN:CB	2.02	0.90
1:AA:200:VAL:HG23	1:AA:242:PRO:O	1.70	0.90
1:AA:371:ASN:C	1:AA:373:GLN:H	1.70	0.90
1:AB:440:PHE:HE1	2:AH:68:THR:HG1	0.99	0.90
3:BK:127:PHE:CE2	3:BK:155:LEU:HD21	2.06	0.90
3:BK:144:TYR:CE2	3:BK:146:ALA:HB2	2.06	0.90
3:BQ:127:PHE:HD2	3:BQ:155:LEU:HD21	1.12	0.90
4:BX:595:SER:OG	4:BX:618:ARG:HD2	1.72	0.90
1:AA:361:GLN:HE21	1:AA:401:TYR:HE1	1.14	0.90
1:AA:404:LEU:HD22	1:AA:435:ILE:HD11	1.53	0.90
2:AM:310:ASN:OD1	3:BO:305:GLN:NE2	2.05	0.90
3:BH:144:TYR:CE2	3:BH:146:ALA:HB2	2.06	0.90
3:BK:272:THR:HG21	3:BK:277:THR:CG2	2.01	0.90
3:BM:175:TYR:OH	3:BM:237:LEU:CD2	2.20	0.90
3:BN:127:PHE:CE2	3:BN:155:LEU:HD21	2.06	0.90
3:BO:127:PHE:CE2	3:BO:155:LEU:HD21	2.06	0.90
3:BQ:127:PHE:CE2	3:BQ:155:LEU:HD21	2.06	0.90
4:BZ:731:ASN:HA	4:BZ:736:ILE:HD12	1.53	0.90
2:AI:168:ARG:NH1	3:BJ:53:TYR:CE2	2.38	0.90
3:BH:127:PHE:CE2	3:BH:155:LEU:HD21	2.06	0.90
3:BN:128:SER:HB3	3:BN:155:LEU:HD13	1.52	0.90
4:BY:488:VAL:CG2	4:BZ:448:TYR:CD1	2.53	0.90
3:BO:175:TYR:OH	3:BO:237:LEU:CD2	2.20	0.90
4:BY:270:ASP:HB2	4:BY:307:ARG:HD2	1.54	0.90
1:AA:471:TRP:HB2	1:AA:512:GLN:OE1	1.70	0.90
1:AA:697:ASP:HB3	1:AA:765:PHE:HE2	1.37	0.90
1:AB:630:ARG:HD2	2:AL:71:LEU:HD12	1.51	0.90
2:AH:306:ALA:HB2	3:BI:282:GLU:OE2	1.70	0.90
2:AK:145:ARG:HD2	2:AL:143:ASN:HA	1.52	0.90
3:BA:251:LYS:CG	3:BA:252:LEU:H	1.83	0.90
3:BI:255:ARG:HD2	3:BI:257:ASN:HD22	1.32	0.90
3:BL:268:VAL:CG1	3:BL:269:LEU:N	2.17	0.90
3:BN:87:THR:OG1	3:BN:122:THR:HG22	1.71	0.90
3:BL:159:ILE:CG1	3:BL:258:VAL:HG11	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:127:PHE:CE2	3:BM:155:LEU:HD21	2.06	0.90
3:BN:310:MET:CG	3:BN:311:SER:H	1.82	0.90
3:BP:175:TYR:OH	3:BP:237:LEU:CD2	2.20	0.90
2:AC:357:VAL:HG22	4:BY:734:TYR:HA	1.49	0.90
3:BH:127:PHE:HD2	3:BH:155:LEU:HD21	1.11	0.90
3:BH:129:VAL:HG12	3:BH:130:ASP:N	1.85	0.90
3:BI:289:TRP:CH2	3:BI:292:TRP:NE1	2.40	0.90
3:BN:144:TYR:CE2	3:BN:146:ALA:HB2	2.06	0.90
3:BP:87:THR:OG1	3:BP:122:THR:HG22	1.70	0.90
1:AA:658:PRO:HG2	1:AB:348:LYS:HG2	1.53	0.89
2:AC:239:ASN:CG	3:BG:67:TYR:CD2	2.46	0.89
2:AM:164:PHE:O	3:BQ:61:GLY:CA	2.20	0.89
3:BF:158:LEU:HD12	3:BF:224:LEU:HD21	1.51	0.89
3:BL:127:PHE:CE2	3:BL:155:LEU:HD21	2.06	0.89
3:BL:144:TYR:CE2	3:BL:146:ALA:HB2	2.06	0.89
3:BM:158:LEU:HD12	3:BM:224:LEU:HD21	1.51	0.89
3:BP:144:TYR:CE2	3:BP:146:ALA:HB2	2.06	0.89
4:BY:681:VAL:O	4:BY:692:ALA:HA	1.73	0.89
1:AA:320:THR:CG2	1:AA:651:ILE:HG22	2.02	0.89
3:BA:87:THR:OG1	3:BA:122:THR:HG22	1.71	0.89
3:BK:175:TYR:OH	3:BK:237:LEU:CD2	2.20	0.89
3:BM:128:SER:CB	3:BM:155:LEU:HD13	2.02	0.89
3:BN:251:LYS:CG	3:BN:252:LEU:N	2.32	0.89
3:BO:137:TYR:HD2	3:BO:310:MET:SD	1.95	0.89
4:BX:731:ASN:HA	4:BX:736:ILE:HD12	1.52	0.89
2:AC:163:SER:OG	3:BG:61:GLY:C	2.09	0.89
3:BA:127:PHE:CE2	3:BA:155:LEU:HD21	2.06	0.89
3:BJ:175:TYR:OH	3:BJ:237:LEU:CD2	2.20	0.89
3:BL:164:LEU:HD12	3:BL:322:PHE:CG	2.07	0.89
3:BM:251:LYS:O	3:BM:252:LEU:CB	2.15	0.89
1:AB:422:GLU:HA	1:AB:425:VAL:HG23	1.53	0.89
3:BF:290:LYS:HB3	3:BH:150:LEU:HD21	1.52	0.89
3:BL:191:CYS:CB	3:BL:244:CYS:HG	1.84	0.89
3:BP:127:PHE:CE2	3:BP:155:LEU:HD21	2.06	0.89
4:BY:263:LYS:HB3	4:BY:477:ASN:ND2	1.86	0.89
3:BI:307:ILE:O	3:BI:310:MET:HG2	1.73	0.89
3:BJ:310:MET:HG3	3:BJ:311:SER:N	1.85	0.89
3:BP:317:LEU:HG	3:BP:318:ASN:N	1.85	0.89
4:BX:542:LYS:HD2	4:BZ:17:ASP:OD2	1.72	0.89
1:AA:253:ASN:HD22	1:AA:253:ASN:H	1.13	0.89
1:AA:471:TRP:O	1:AA:475:VAL:HG23	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:440:PHE:CE1	2:AH:68:THR:HB	2.08	0.89
3:BI:255:ARG:CD	3:BI:257:ASN:ND2	2.36	0.89
3:BI:266:SER:HB2	3:BK:268:VAL:N	1.87	0.89
3:BJ:59:ILE:CD1	3:BL:53:TYR:CE2	2.56	0.89
4:BZ:679:ASP:HB3	4:BZ:695:VAL:CG1	2.01	0.89
4:BZ:419:VAL:HG12	4:BZ:420:SER:H	1.37	0.89
1:AB:446:HIS:O	1:AB:447:TYR:HB2	1.73	0.89
3:BO:158:LEU:CD1	3:BO:224:LEU:HD11	2.03	0.89
3:BP:322:PHE:O	3:BP:323:TYR:CG	2.26	0.89
4:BY:312:VAL:HG13	4:BY:362:PHE:CE1	2.08	0.89
4:BZ:409:VAL:CG1	4:BZ:426:PHE:HE2	1.81	0.89
1:AA:803:ASN:HD21	1:AA:806:SER:HB2	1.38	0.89
1:AB:481:ARG:H	1:AB:481:ARG:CD	1.85	0.89
2:AE:255:ARG:CD	3:BG:65:THR:CG2	2.50	0.89
3:BG:158:LEU:CD1	3:BG:224:LEU:HD11	2.03	0.89
4:BY:315:HIS:HD2	4:BY:357:ASP:CA	1.85	0.89
3:BI:150:LEU:HD22	3:BJ:289:TRP:O	1.73	0.89
3:BK:256:GLU:CG	3:BK:313:ARG:O	2.20	0.89
3:BQ:128:SER:CB	3:BQ:155:LEU:CD1	2.50	0.89
4:BX:419:VAL:HG12	4:BX:420:SER:H	1.37	0.89
3:BO:125:ALA:CB	3:BO:223:LYS:HD3	2.02	0.88
3:BP:313:ARG:HG2	3:BP:316:SER:CB	2.02	0.88
4:BZ:410:THR:HG22	4:BZ:411:LEU:N	1.88	0.88
4:BZ:432:VAL:HG11	4:BZ:448:TYR:CB	1.99	0.88
2:AD:241:ALA:CB	3:BH:59:ILE:HG21	2.04	0.88
3:BG:132:GLN:HG2	3:BG:319:SER:HB3	1.56	0.88
3:BI:269:LEU:O	3:BI:270:ASP:CB	2.19	0.88
3:BN:64:ASP:O	3:BN:65:THR:CG2	2.21	0.88
4:BX:262:TRP:HB3	4:BX:473:LEU:HG	0.91	0.88
4:BZ:409:VAL:CG1	4:BZ:426:PHE:CD2	2.52	0.88
1:AA:416:ASN:HB3	1:AA:424:LEU:HD22	1.54	0.88
1:AB:217:THR:HG22	1:AB:221:VAL:HG21	1.54	0.88
2:AL:163:SER:OG	3:BP:62:SER:N	2.05	0.88
3:BF:158:LEU:CD1	3:BF:224:LEU:HD11	2.03	0.88
3:BG:183:LYS:HE2	3:BG:228:ASP:OD2	1.74	0.88
3:BN:158:LEU:CD1	3:BN:224:LEU:HD11	2.03	0.88
3:BQ:158:LEU:CD1	3:BQ:224:LEU:HD11	2.03	0.88
1:AA:546:LEU:HD21	1:AA:588:ILE:CD1	2.03	0.88
1:AB:405:ILE:CG2	1:AB:536:LEU:CD1	2.51	0.88
1:AB:868:ALA:HB3	1:AB:876:ILE:HG12	1.51	0.88
2:AG:171:PRO:HG2	3:BJ:314:SER:CB	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:241:ALA:HB1	3:BQ:59:ILE:HG21	0.90	0.88
3:BA:158:LEU:CD1	3:BA:224:LEU:HD11	2.03	0.88
3:BG:58:PRO:CA	3:BO:52:ASN:HD21	1.87	0.88
3:BQ:183:LYS:HE2	3:BQ:228:ASP:OD2	1.74	0.88
2:AL:358:GLY:C	4:BX:701:ILE:HD11	1.94	0.88
3:BM:275:PRO:HB2	3:BN:285:MET:SD	2.14	0.88
3:BP:183:LYS:HE2	3:BP:228:ASP:OD2	1.74	0.88
4:BX:350:TYR:CE1	4:BX:427:ARG:CD	2.54	0.88
1:AB:874:MET:O	1:AB:875:ARG:HB2	1.71	0.88
3:BG:321:ALA:O	3:BG:322:PHE:O	1.91	0.88
3:BI:285:MET:SD	3:BK:275:PRO:HB2	2.14	0.88
3:BJ:205:ILE:HD11	3:BK:104:GLN:CB	2.04	0.88
3:BO:73:GLU:HG2	3:BO:73:GLU:O	1.72	0.88
4:BX:617:ARG:CG	4:BX:620:ARG:HH21	1.81	0.88
1:AA:362:SER:O	1:AA:366:PHE:HE1	1.56	0.88
3:BI:158:LEU:HD11	3:BI:224:LEU:HD21	1.53	0.88
3:BJ:158:LEU:CD1	3:BJ:224:LEU:HD11	2.03	0.88
3:BO:55:ILE:HG21	3:BO:322:PHE:N	1.88	0.88
3:BO:58:PRO:O	3:BO:59:ILE:HG13	1.73	0.88
1:AA:320:THR:HG22	1:AA:651:ILE:CG2	2.04	0.88
1:AA:420:ILE:HD11	1:AA:422:GLU:HG2	1.56	0.88
3:BA:183:LYS:HE2	3:BA:228:ASP:OD2	1.74	0.88
3:BK:141:LEU:HD12	3:BK:261:ILE:HG22	1.56	0.88
3:BL:159:ILE:CD1	3:BL:258:VAL:CG1	2.51	0.88
3:BL:285:MET:SD	3:BN:275:PRO:HB2	2.14	0.88
4:BX:18:LEU:HD22	4:BY:19:SER:HB2	1.55	0.88
4:BX:474:VAL:HB	4:BX:475:PRO:HD2	1.56	0.88
4:BZ:734:TYR:CE2	4:BZ:761:PRO:HG3	2.07	0.88
1:AB:482:GLN:HG3	1:AB:493:LEU:HD22	0.91	0.88
1:AB:510:LEU:HD11	1:AB:537:SER:HB3	1.56	0.88
2:AI:57:ARG:HH11	2:AI:94:ASN:HD21	1.20	0.88
3:BA:174:TYR:CD1	3:BA:198:LEU:CD1	2.57	0.88
3:BF:104:GLN:CB	3:BH:205:ILE:HD11	2.04	0.88
3:BF:154:GLU:HG3	3:BG:290:LYS:HZ1	1.32	0.88
3:BF:275:PRO:HB2	3:BG:285:MET:SD	2.14	0.88
3:BP:174:TYR:CE1	3:BP:234:ASN:CB	2.56	0.88
1:AA:678:ARG:O	1:AA:681:ILE:HG22	1.73	0.88
2:AH:76:ASN:CB	2:AJ:76:ASN:HB2	2.03	0.88
3:BA:116:VAL:CG1	3:BA:116:VAL:C	2.42	0.88
3:BF:183:LYS:HE2	3:BF:228:ASP:OD2	1.74	0.88
3:BG:205:ILE:HD11	3:BH:104:GLN:CB	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:131:PRO:C	3:BL:132:GLN:HG2	1.94	0.88
3:BM:205:ILE:HD11	3:BN:104:GLN:CB	2.04	0.88
3:BN:165:CYS:O	3:BN:324:TYR:HA	1.72	0.88
3:BQ:130:ASP:N	3:BQ:131:PRO:CD	2.37	0.88
4:BX:332:SER:OG	4:BY:70:GLN:HG2	1.74	0.88
4:BY:252:GLU:O	4:BY:253:ASP:OD1	1.91	0.88
4:BY:317:THR:HB	4:BY:354:ASP:O	1.74	0.88
3:BF:174:TYR:HE1	3:BF:234:ASN:CB	1.86	0.87
3:BM:174:TYR:CE1	3:BM:234:ASN:CB	2.54	0.87
4:BY:463:GLU:O	4:BY:464:VAL:HG23	1.74	0.87
4:BY:718:ILE:HD13	4:BY:746:ARG:HA	1.57	0.87
4:BZ:2:ALA:HB2	4:BZ:635:ASP:HA	1.56	0.87
1:AA:158:GLY:H	1:AA:762:ALA:HB3	1.36	0.87
2:AK:164:PHE:O	3:BN:61:GLY:N	2.08	0.87
3:BF:174:TYR:CD1	3:BF:234:ASN:HB3	2.08	0.87
3:BF:271:ILE:O	3:BF:271:ILE:CG2	2.21	0.87
3:BK:158:LEU:CD1	3:BK:224:LEU:HD11	2.03	0.87
3:BL:275:PRO:HB2	3:BM:285:MET:SD	2.14	0.87
3:BO:275:PRO:HB2	3:BP:285:MET:SD	2.14	0.87
3:BP:275:PRO:HB2	3:BQ:285:MET:SD	2.14	0.87
3:BJ:52:ASN:ND2	3:BL:58:PRO:CA	2.38	0.87
3:BL:131:PRO:O	3:BL:132:GLN:HG2	1.74	0.87
3:BM:183:LYS:HE2	3:BM:228:ASP:OD2	1.74	0.87
3:BN:183:LYS:HE2	3:BN:228:ASP:OD2	1.74	0.87
4:BY:317:THR:OG1	4:BY:356:TRP:CZ3	2.26	0.87
4:BZ:695:VAL:HG13	4:BZ:696:GLU:N	1.87	0.87
1:AA:660:ASP:CG	1:AA:661:GLN:H	1.78	0.87
2:AC:239:ASN:CA	3:BG:67:TYR:HE2	1.86	0.87
3:BF:205:ILE:HD11	3:BG:104:GLN:CB	2.04	0.87
3:BM:128:SER:OG	3:BM:224:LEU:HB2	1.74	0.87
4:BX:328:PHE:CZ	4:BX:442:THR:HG21	2.09	0.87
1:AB:405:ILE:HG21	1:AB:536:LEU:HD11	1.55	0.87
1:AB:413:VAL:HG12	1:AB:414:VAL:N	1.88	0.87
2:AH:76:ASN:HB2	2:AJ:76:ASN:N	1.88	0.87
2:AH:313:PRO:HD2	3:BK:279:PRO:CB	2.05	0.87
3:BI:104:GLN:CB	3:BK:205:ILE:HD11	2.04	0.87
3:BI:251:LYS:HG3	3:BI:252:LEU:H	1.11	0.87
3:BK:251:LYS:HG3	3:BK:252:LEU:H	1.11	0.87
3:BO:257:ASN:OD1	3:BO:313:ARG:CB	2.22	0.87
3:BQ:174:TYR:CE1	3:BQ:234:ASN:CB	2.56	0.87
4:BX:33:VAL:HA	4:BY:36:ASN:HB3	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:678:ARG:O	1:AB:681:ILE:HG22	1.73	0.87
2:AI:246:THR:HG22	3:BL:67:TYR:HE2	1.33	0.87
3:BA:116:VAL:CG1	3:BA:116:VAL:CG2	2.50	0.87
3:BG:313:ARG:HD3	3:BO:322:PHE:HD1	1.39	0.87
3:BI:183:LYS:HE2	3:BI:228:ASP:OD2	1.74	0.87
3:BK:127:PHE:HD2	3:BK:155:LEU:HD21	1.12	0.87
3:BL:158:LEU:CD1	3:BL:224:LEU:HD11	2.03	0.87
3:BO:183:LYS:HE2	3:BO:228:ASP:OD2	1.74	0.87
3:BP:158:LEU:CD1	3:BP:224:LEU:HD11	2.03	0.87
3:BQ:187:MET:CG	3:BQ:224:LEU:HD12	2.04	0.87
4:BX:71:PRO:O	4:BX:72:THR:HG23	1.75	0.87
4:BY:312:VAL:HG13	4:BY:362:PHE:HE1	1.38	0.87
1:AA:587:LEU:O	1:AA:587:LEU:HD13	1.75	0.87
3:BJ:252:LEU:O	3:BJ:253:GLY:O	1.90	0.87
3:BJ:275:PRO:HB2	3:BK:285:MET:SD	2.14	0.87
3:BP:205:ILE:HD11	3:BQ:104:GLN:CB	2.04	0.87
3:BP:257:ASN:ND2	3:BP:313:ARG:NH2	2.23	0.87
4:BX:354:ASP:HA	4:BX:424:LEU:O	1.74	0.87
1:AA:509:ALA:O	1:AA:513:LEU:HG	1.74	0.87
1:AA:712:LEU:HB3	1:AA:721:VAL:O	1.75	0.87
2:AC:364:GLY:HA2	4:BY:733:ASN:CG	1.95	0.87
3:BK:174:TYR:CE1	3:BK:234:ASN:CB	2.56	0.87
3:BN:159:ILE:HG21	3:BN:258:VAL:HG21	1.56	0.87
3:BP:251:LYS:HG3	3:BP:252:LEU:H	1.09	0.87
4:BX:35:ILE:CB	4:BY:37:LEU:HD13	2.04	0.87
1:AA:119:GLN:HG2	1:AA:181:LEU:CD1	2.04	0.87
3:BI:289:TRP:O	3:BK:150:LEU:HD22	1.74	0.87
3:BL:183:LYS:HE2	3:BL:228:ASP:OD2	1.74	0.87
3:BO:104:GLN:CB	3:BQ:205:ILE:HD11	2.04	0.87
4:BY:50:TRP:N	4:BY:421:LEU:CD1	2.32	0.87
4:BY:261:LEU:CD1	4:BY:478:ASP:OD2	2.21	0.87
1:AA:259:HIS:CD2	1:AA:677:ARG:CG	2.55	0.86
2:AC:163:SER:OG	3:BG:62:SER:N	2.08	0.86
3:BF:285:MET:SD	3:BH:275:PRO:HB2	2.14	0.86
3:BH:158:LEU:CD1	3:BH:224:LEU:HD11	2.03	0.86
3:BJ:183:LYS:HE2	3:BJ:228:ASP:OD2	1.74	0.86
3:BK:183:LYS:HE2	3:BK:228:ASP:OD2	1.74	0.86
3:BM:127:PHE:HD2	3:BM:155:LEU:HD21	1.12	0.86
3:BM:268:VAL:HG11	3:BN:266:SER:HA	1.55	0.86
3:BO:205:ILE:HD11	3:BP:104:GLN:CB	2.04	0.86
1:AB:389:GLN:HE22	1:AB:493:LEU:HD11	1.41	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:163:SER:CB	3:BH:62:SER:HA	2.01	0.86
3:BG:275:PRO:HB2	3:BH:285:MET:SD	2.14	0.86
3:BH:183:LYS:HE2	3:BH:228:ASP:OD2	1.74	0.86
3:BH:251:LYS:O	3:BH:252:LEU:CB	2.16	0.86
3:BL:191:CYS:CB	3:BL:244:CYS:SG	2.64	0.86
3:BM:158:LEU:CD1	3:BM:224:LEU:HD11	2.03	0.86
3:BN:159:ILE:HG22	3:BN:258:VAL:CG1	2.03	0.86
3:BQ:191:CYS:CB	3:BQ:244:CYS:SG	2.63	0.86
3:BQ:251:LYS:CG	3:BQ:252:LEU:H	1.87	0.86
2:AG:142:GLN:O	2:AI:145:ARG:HD2	1.74	0.86
3:BF:159:ILE:HG13	3:BF:160:LEU:N	1.89	0.86
3:BL:174:TYR:CE1	3:BL:234:ASN:CB	2.56	0.86
4:BZ:626:THR:HG22	4:BZ:627:GLN:HG3	1.56	0.86
1:AB:590:ASN:HD22	1:AB:590:ASN:H	1.19	0.86
1:AB:845:ASN:HB3	1:AB:848:PHE:CZ	2.10	0.86
2:AF:255:ARG:CD	3:BJ:65:THR:OG1	2.22	0.86
3:BL:104:GLN:CB	3:BN:205:ILE:HD11	2.04	0.86
3:BM:310:MET:HG3	3:BM:311:SER:N	1.90	0.86
3:BP:310:MET:HG3	3:BP:311:SER:N	1.90	0.86
1:AA:253:ASN:H	1:AA:253:ASN:ND2	1.73	0.86
3:BG:251:LYS:CG	3:BG:252:LEU:H	1.88	0.86
3:BI:275:PRO:HB2	3:BJ:285:MET:SD	2.14	0.86
3:BK:191:CYS:CB	3:BK:244:CYS:SG	2.64	0.86
4:BX:540:ALA:C	4:BX:544:MET:HB2	1.96	0.86
1:AA:366:PHE:C	1:AA:368:THR:H	1.78	0.86
2:AC:239:ASN:CA	3:BG:67:TYR:CE2	2.59	0.86
2:AD:302:PRO:HB3	3:BF:282:GLU:CD	1.96	0.86
3:BL:256:GLU:HB3	3:BL:311:SER:HB2	1.57	0.86
4:BY:77:PRO:HG3	4:BY:287:LEU:CG	2.04	0.86
4:BY:488:VAL:HG23	4:BZ:448:TYR:HD1	1.39	0.86
1:AB:771:VAL:HB	1:AB:809:PHE:HB3	1.55	0.86
2:AE:238:ILE:HG23	3:BF:63:MET:CE	2.06	0.86
2:AE:241:ALA:HB1	3:BF:59:ILE:HG21	1.57	0.86
3:BH:191:CYS:CB	3:BH:244:CYS:SG	2.64	0.86
3:BN:133:LEU:N	3:BN:320:ALA:CB	2.39	0.86
3:BN:160:LEU:HD23	3:BN:258:VAL:HG13	1.57	0.86
4:BY:359:SER:CB	4:BY:362:PHE:CD1	2.52	0.86
3:BN:191:CYS:CB	3:BN:244:CYS:SG	2.63	0.86
3:BO:191:CYS:CB	3:BO:244:CYS:SG	2.64	0.86
3:BP:130:ASP:O	3:BP:132:GLN:HG2	1.76	0.86
4:BX:30:THR:N	4:BY:33:VAL:HG12	1.91	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:191:CYS:CB	3:BM:244:CYS:SG	2.64	0.86
4:BZ:583:SER:HB3	4:BZ:593:ASP:HB3	1.55	0.86
1:AA:164:GLU:OE2	1:AA:636:LYS:HD3	1.76	0.86
2:AL:57:ARG:HH11	2:AL:94:ASN:HD21	1.20	0.86
2:AL:163:SER:OG	3:BP:61:GLY:O	1.82	0.86
3:BA:251:LYS:O	3:BA:252:LEU:CB	2.24	0.86
3:BF:172:LEU:HB2	3:BF:173:TYR:CE1	2.11	0.86
3:BN:82:CYS:N	3:BN:135:CYS:SG	2.49	0.86
4:BX:34:THR:O	4:BY:484:ILE:HB	1.75	0.86
4:BY:626:THR:HG22	4:BY:627:GLN:HG3	1.57	0.86
1:AA:250:HIS:CE1	1:AA:840:HIS:CB	2.58	0.85
1:AA:285:ILE:CD1	1:AA:861:ASP:HB2	2.05	0.85
1:AB:477:ASN:ND2	2:AI:39:ILE:HG21	1.91	0.85
2:AK:106:ARG:CG	2:AK:107:ASN:N	2.39	0.85
3:BF:191:CYS:CB	3:BF:244:CYS:SG	2.64	0.85
3:BF:310:MET:HG3	3:BF:311:SER:N	1.90	0.85
3:BG:129:VAL:CG1	3:BG:187:MET:HG3	2.06	0.85
3:BG:316:SER:HB3	3:BO:325:ARG:H	1.41	0.85
3:BI:174:TYR:CE1	3:BI:234:ASN:CB	2.56	0.85
3:BI:191:CYS:CB	3:BI:244:CYS:SG	2.64	0.85
3:BJ:321:ALA:HB2	3:BJ:325:ARG:NE	1.91	0.85
3:BK:82:CYS:N	3:BK:135:CYS:SG	2.49	0.85
3:BK:144:TYR:HD2	3:BK:144:TYR:C	1.79	0.85
3:BM:82:CYS:N	3:BM:135:CYS:SG	2.49	0.85
1:AB:686:LEU:CD2	2:AL:71:LEU:HD21	2.05	0.85
2:AE:272:THR:HG23	4:BY:729:ASN:CG	1.97	0.85
3:BG:68:ALA:HA	4:BY:510:GLN:OE1	1.74	0.85
3:BG:310:MET:HG3	3:BG:311:SER:N	1.91	0.85
3:BI:268:VAL:CG1	3:BI:269:LEU:N	2.39	0.85
3:BJ:82:CYS:N	3:BJ:135:CYS:SG	2.50	0.85
3:BJ:315:ARG:NH1	3:BJ:324:TYR:CE1	2.44	0.85
3:BN:310:MET:HG3	3:BN:311:SER:N	1.91	0.85
3:BO:105:LEU:O	3:BO:108:THR:CG2	2.23	0.85
3:BP:191:CYS:CB	3:BP:244:CYS:SG	2.64	0.85
1:AB:117:LYS:O	1:AB:118:LYS:O	1.94	0.85
3:BI:312:LYS:HE3	3:BI:315:ARG:HH12	1.41	0.85
3:BJ:191:CYS:CB	3:BJ:244:CYS:SG	2.64	0.85
4:BX:718:ILE:HD13	4:BX:746:ARG:HA	1.57	0.85
4:BY:584:VAL:HG11	4:BY:705:VAL:HB	1.58	0.85
4:BY:679:ASP:HA	4:BY:695:VAL:HB	1.57	0.85
1:AB:368:THR:HG22	1:AB:371:ASN:HD21	1.39	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:80:THR:HB	3:BI:117:TYR:CE1	2.10	0.85
3:BL:82:CYS:N	3:BL:135:CYS:SG	2.49	0.85
3:BP:82:CYS:N	3:BP:135:CYS:SG	2.49	0.85
4:BY:732:ASP:C	4:BY:734:TYR:H	1.78	0.85
1:AA:178:PRO:CG	1:AA:256:PHE:HD2	1.86	0.85
1:AA:779:ASP:HA	1:AA:798:ILE:HD11	1.58	0.85
1:AB:594:ILE:HD12	1:AB:594:ILE:C	1.96	0.85
2:AI:171:PRO:CG	3:BJ:322:PHE:HE2	1.88	0.85
3:BF:105:LEU:O	3:BF:108:THR:CG2	2.24	0.85
3:BG:82:CYS:N	3:BG:135:CYS:SG	2.49	0.85
3:BG:191:CYS:CB	3:BG:244:CYS:SG	2.64	0.85
3:BH:310:MET:HG3	3:BH:311:SER:N	1.90	0.85
3:BI:82:CYS:N	3:BI:135:CYS:SG	2.49	0.85
3:BI:272:THR:HG21	3:BI:277:THR:CG2	2.06	0.85
3:BJ:150:LEU:CD2	3:BK:290:LYS:CB	2.52	0.85
3:BM:105:LEU:O	3:BM:108:THR:CG2	2.24	0.85
4:BX:584:VAL:HG11	4:BX:705:VAL:HB	1.57	0.85
4:BX:594:VAL:O	4:BX:598:ILE:HG22	1.76	0.85
2:AF:255:ARG:NE	3:BJ:65:THR:OG1	2.10	0.85
2:AI:150:PHE:HB2	2:AI:152:PHE:CE1	2.12	0.85
3:BA:82:CYS:N	3:BA:135:CYS:SG	2.49	0.85
3:BM:252:LEU:O	3:BM:253:GLY:O	1.93	0.85
3:BO:64:ASP:O	3:BO:65:THR:CG2	2.24	0.85
3:BO:214:THR:CG2	4:BY:480:TYR:CE1	2.60	0.85
3:BP:76:PHE:CE2	3:BP:109:LYS:O	2.29	0.85
3:BQ:310:MET:HG3	3:BQ:311:SER:N	1.90	0.85
4:BX:35:ILE:HD12	4:BY:483:PRO:HA	1.58	0.85
4:BX:262:TRP:CB	4:BX:473:LEU:CG	2.48	0.85
1:AA:122:LEU:CD1	1:AA:245:LEU:HD21	2.05	0.85
1:AA:439:ALA:CB	1:AA:525:TYR:HE2	1.86	0.85
2:AC:57:ARG:HH11	2:AC:94:ASN:HD21	1.20	0.85
3:BF:82:CYS:N	3:BF:135:CYS:SG	2.50	0.85
3:BG:116:VAL:CG1	3:BG:117:TYR:N	2.40	0.85
3:BH:82:CYS:N	3:BH:135:CYS:SG	2.49	0.85
3:BO:257:ASN:CG	3:BO:313:ARG:HB2	1.97	0.85
4:BZ:718:ILE:HD13	4:BZ:746:ARG:HA	1.57	0.85
1:AA:721:VAL:HG12	1:AA:722:ASN:N	1.91	0.85
1:AB:686:LEU:HD21	2:AL:71:LEU:HD21	1.59	0.85
2:AL:363:PRO:HG3	4:BX:704:ASP:OD1	1.74	0.85
3:BH:105:LEU:O	3:BH:108:THR:CG2	2.24	0.85
3:BI:132:GLN:HB3	3:BI:319:SER:HB2	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:159:ILE:HG13	3:BL:160:LEU:N	1.89	0.85
3:BP:257:ASN:HD21	3:BP:313:ARG:HE	1.20	0.85
3:BQ:144:TYR:HD2	3:BQ:144:TYR:C	1.80	0.85
4:BX:624:MET:SD	4:BX:632:ASN:HB3	2.17	0.85
4:BY:693:TYR:OH	4:BY:724:PHE:HB2	1.75	0.85
1:AA:199:VAL:HG12	1:AA:200:VAL:N	1.91	0.85
2:AH:242:ASP:O	4:BZ:602:SER:HB3	1.75	0.85
3:BL:105:LEU:O	3:BL:108:THR:CG2	2.24	0.85
3:BO:174:TYR:CE1	3:BO:234:ASN:CB	2.56	0.85
4:BZ:544:MET:CE	4:BZ:656:LEU:CD1	2.49	0.85
4:BZ:730:LEU:HD12	4:BZ:734:TYR:CE1	2.12	0.85
2:AH:164:PHE:C	3:BK:61:GLY:HA3	1.96	0.85
2:AI:76:ASN:H	2:AM:76:ASN:CB	1.88	0.85
2:AL:150:PHE:HB2	2:AL:152:PHE:CE1	2.12	0.85
3:BA:128:SER:HA	3:BA:155:LEU:HD13	1.51	0.85
3:BI:132:GLN:HA	3:BI:319:SER:CA	2.07	0.85
3:BJ:174:TYR:CE1	3:BJ:234:ASN:CB	2.56	0.85
3:BJ:321:ALA:HB1	3:BJ:325:ARG:NE	1.92	0.85
1:AB:406:SER:O	1:AB:409:TRP:HB3	1.77	0.84
2:AC:295:MET:CE	3:BH:67:TYR:CE1	2.54	0.84
2:AF:255:ARG:CZ	3:BJ:65:THR:OG1	2.24	0.84
2:AH:76:ASN:CB	2:AJ:76:ASN:H	1.90	0.84
2:AJ:239:ASN:HD22	3:BM:65:THR:HA	1.42	0.84
3:BF:270:ASP:OD2	3:BG:286:ARG:HG2	1.76	0.84
3:BK:64:ASP:C	3:BK:65:THR:HG22	1.96	0.84
3:BN:105:LEU:O	3:BN:108:THR:CG2	2.23	0.84
3:BQ:63:MET:O	3:BQ:65:THR:HG23	1.77	0.84
3:BQ:82:CYS:N	3:BQ:135:CYS:SG	2.49	0.84
4:BX:537:THR:CA	4:BX:540:ALA:HB3	2.06	0.84
1:AA:406:SER:O	1:AA:409:TRP:HB3	1.77	0.84
2:AC:150:PHE:HB2	2:AC:152:PHE:CE1	2.12	0.84
2:AF:313:PRO:HD2	3:BI:279:PRO:HB3	1.59	0.84
2:AH:76:ASN:HA	2:AJ:75:ALA:HB3	1.57	0.84
3:BF:159:ILE:HD12	3:BF:258:VAL:CG1	2.04	0.84
3:BQ:251:LYS:HG3	3:BQ:252:LEU:H	1.05	0.84
4:BX:674:ARG:NH2	4:BX:745:LEU:HD22	1.93	0.84
1:AB:389:GLN:HE22	1:AB:493:LEU:HD12	1.40	0.84
2:AE:238:ILE:HG23	3:BF:63:MET:HE1	1.58	0.84
3:BA:310:MET:HG3	3:BA:311:SER:N	1.90	0.84
3:BN:57:LEU:HG	3:BN:58:PRO:HD2	1.57	0.84
3:BO:82:CYS:N	3:BO:135:CYS:SG	2.50	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:389:GLN:NE2	1:AB:493:LEU:CD1	2.40	0.84
1:AB:494:ASN:CG	1:AB:495:ASP:N	2.28	0.84
2:AG:202:PRO:HG3	4:BZ:577:ARG:NH2	1.80	0.84
3:BF:288:ASN:CG	3:BH:150:LEU:CD1	2.45	0.84
3:BJ:150:LEU:HB3	3:BK:290:LYS:HD3	1.57	0.84
3:BO:268:VAL:HG11	3:BP:286:ARG:NH2	1.92	0.84
4:BX:250:ALA:O	4:BX:251:ASN:HB2	1.74	0.84
4:BY:40:PHE:CD2	4:BY:259:THR:CG2	2.60	0.84
1:AB:204:THR:HG22	1:AB:244:ILE:HG22	1.59	0.84
1:AB:477:ASN:ND2	2:AI:39:ILE:CG2	2.40	0.84
3:BJ:251:LYS:CG	3:BJ:252:LEU:H	1.89	0.84
1:AB:180:TYR:HE2	1:AB:850:VAL:HG21	1.43	0.84
1:AB:511:MET:HE1	2:AJ:70:LEU:CD2	1.96	0.84
2:AE:241:ALA:CB	3:BF:59:ILE:HG21	2.07	0.84
2:AE:262:GLU:HG2	4:BY:725:LYS:NZ	1.93	0.84
3:BF:144:TYR:HD2	3:BF:144:TYR:C	1.81	0.84
3:BJ:263:VAL:HG12	3:BJ:289:TRP:HB2	1.59	0.84
1:AA:136:ALA:O	1:AA:137:ASN:HB3	1.76	0.84
1:AB:779:ASP:CA	1:AB:798:ILE:HD11	2.06	0.84
3:BO:268:VAL:HG21	3:BP:286:ARG:NH1	1.92	0.84
3:BO:307:ILE:O	3:BO:310:MET:HG2	1.77	0.84
4:BX:620:ARG:NH1	4:BX:686:THR:HG21	1.92	0.84
4:BY:69:TYR:HD2	4:BY:332:SER:O	1.61	0.84
4:BZ:264:GLU:CB	4:BZ:473:LEU:HA	2.07	0.84
4:BZ:268:ASN:OD1	4:BZ:269:ARG:N	2.10	0.84
1:AA:178:PRO:CD	1:AA:256:PHE:CE2	2.60	0.84
1:AA:263:GLU:HB3	1:AA:264:PRO:CD	2.07	0.84
2:AE:269:ILE:HD13	4:BY:725:LYS:CE	1.93	0.84
2:AE:272:THR:CG2	4:BY:729:ASN:OD1	2.26	0.84
4:BX:5:ILE:O	4:BX:9:LEU:HG	1.77	0.84
4:BX:29:LYS:HE3	4:BY:34:THR:OG1	1.78	0.84
4:BX:734:TYR:CZ	4:BX:761:PRO:CB	2.60	0.84
1:AA:306:ASP:CB	1:AA:614:TYR:CE2	2.60	0.84
3:BI:168:MET:HE2	3:BI:168:MET:HA	1.60	0.84
4:BX:32:ASN:HB3	4:BY:484:ILE:HG22	1.57	0.84
4:BZ:717:VAL:HG12	4:BZ:718:ILE:H	1.42	0.84
1:AA:674:VAL:HG12	1:AA:678:ARG:CB	2.04	0.84
1:AA:717:MET:SD	1:AA:829:ILE:HG23	2.18	0.84
1:AB:160:TYR:OH	1:AB:635:GLN:HG3	1.76	0.84
1:AB:405:ILE:HG21	1:AB:536:LEU:CD1	2.08	0.84
2:AE:270:ILE:O	4:BY:728:LYS:HE3	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:70:SER:O	3:BM:71:THR:OG1	1.95	0.84
4:BY:493:ASP:OD1	4:BY:493:ASP:N	2.11	0.84
3:BA:69:ASN:HD22	5:A:1:NAG:C1	1.90	0.83
3:BF:172:LEU:HD11	4:BZ:467:ARG:HB2	1.58	0.83
3:BI:105:LEU:O	3:BI:108:THR:CG2	2.23	0.83
3:BJ:52:ASN:HD21	3:BL:58:PRO:HA	1.42	0.83
3:BM:268:VAL:CB	3:BN:266:SER:HB2	2.07	0.83
4:BX:18:LEU:HD13	4:BY:19:SER:HB3	1.60	0.83
1:AA:420:ILE:CD1	1:AA:422:GLU:HG2	2.08	0.83
2:AF:150:PHE:HB2	2:AF:152:PHE:CE1	2.12	0.83
4:BX:626:THR:HG22	4:BX:627:GLN:HG3	1.57	0.83
4:BY:270:ASP:HB2	4:BY:307:ARG:CD	2.07	0.83
1:AA:204:THR:HG23	1:AA:244:ILE:CB	2.07	0.83
1:AA:353:LEU:HD13	1:AA:362:SER:HB2	1.60	0.83
1:AB:735:LEU:HG	1:AB:760:VAL:O	1.76	0.83
3:BA:106:PHE:CD1	3:BA:116:VAL:HG21	2.14	0.83
4:BX:33:VAL:HB	4:BY:36:ASN:HD22	1.41	0.83
4:BY:483:PRO:HG2	4:BY:486:ASN:HB2	1.60	0.83
3:BP:251:LYS:CG	3:BP:252:LEU:H	1.87	0.83
3:BQ:307:ILE:HA	3:BQ:310:MET:HE3	1.59	0.83
4:BX:717:VAL:HG12	4:BX:718:ILE:H	1.42	0.83
4:BY:359:SER:HB2	4:BY:362:PHE:CE1	2.12	0.83
4:BY:694:ARG:NH2	4:BY:701:ILE:HG21	1.93	0.83
1:AA:646:LEU:HD21	1:AA:665:LEU:HD23	1.59	0.83
1:AA:689:MET:HA	1:AA:692:ILE:HD12	1.60	0.83
1:AB:769:SER:HB3	1:AB:807:ASN:OD1	1.78	0.83
2:AN:255:ARG:NE	3:BP:65:THR:OG1	2.12	0.83
3:BI:267:ASP:C	3:BI:268:VAL:HG23	1.98	0.83
3:BJ:251:LYS:O	3:BJ:252:LEU:CB	2.16	0.83
4:BZ:730:LEU:O	4:BZ:734:TYR:CD1	2.31	0.83
1:AA:622:VAL:HG11	1:AA:672:LEU:O	1.78	0.83
1:AA:712:LEU:HG	1:AA:819:PRO:HB2	1.61	0.83
2:AJ:73:LEU:HD22	2:AJ:77:TYR:CD2	2.13	0.83
3:BH:191:CYS:CB	3:BH:244:CYS:HG	1.92	0.83
3:BL:159:ILE:HG13	3:BL:258:VAL:HG11	1.58	0.83
3:BN:173:TYR:HA	4:BX:489:THR:HG21	1.60	0.83
3:BO:214:THR:CG2	4:BY:480:TYR:OH	2.25	0.83
4:BY:321:ASN:HB3	4:BY:352:TYR:HE1	1.41	0.83
4:BZ:266:GLN:CG	4:BZ:470:LEU:O	2.27	0.83
1:AB:456:PHE:HZ	1:AB:471:TRP:CZ3	1.96	0.83
1:AB:630:ARG:HB3	2:AL:71:LEU:HB2	0.85	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:358:GLY:O	4:BX:701:ILE:HD11	1.77	0.83
3:BA:129:VAL:C	3:BA:131:PRO:HD3	1.97	0.83
3:BP:96:ASN:ND2	4:BX:39:PRO:HB3	1.93	0.83
4:BX:410:THR:HB	4:BX:425:ARG:HG2	1.60	0.83
4:BY:355:TYR:CE1	4:BY:357:ASP:OD1	2.31	0.83
1:AA:188:VAL:HG12	1:AA:189:GLU:H	1.42	0.83
1:AA:725:ARG:CZ	1:AA:829:ILE:HD12	2.08	0.83
1:AA:779:ASP:HA	1:AA:798:ILE:CD1	2.09	0.83
2:AC:238:ILE:HG23	3:BG:63:MET:CE	2.08	0.83
2:AD:302:PRO:CB	3:BF:282:GLU:CD	2.46	0.83
2:AM:69:THR:HG22	2:AM:69:THR:O	1.79	0.83
3:BO:310:MET:HG3	3:BO:311:SER:N	1.93	0.83
4:BX:674:ARG:HH21	4:BX:745:LEU:HD22	1.42	0.83
4:BY:252:GLU:HG2	4:BY:253:ASP:H	0.71	0.83
4:BZ:272:THR:HG21	4:BZ:305:TYR:CG	2.13	0.83
3:BG:128:SER:HA	3:BG:155:LEU:HD13	1.47	0.83
3:BN:191:CYS:CB	3:BN:244:CYS:HG	1.92	0.83
3:BP:252:LEU:CG	3:BP:253:GLY:H	1.88	0.83
4:BY:40:PHE:HB3	4:BY:259:THR:O	1.78	0.83
4:BY:674:ARG:NH2	4:BY:745:LEU:HD22	1.94	0.83
1:AA:253:ASN:HD22	1:AA:253:ASN:N	1.76	0.83
1:AA:469:ALA:O	2:AG:71:LEU:CD2	2.26	0.83
1:AB:466:PHE:CE1	2:AH:80:THR:HG21	2.13	0.83
2:AE:69:THR:O	2:AE:70:LEU:HB2	1.78	0.83
3:BJ:252:LEU:HG	3:BJ:253:GLY:H	1.41	0.83
3:BP:60:THR:HG22	3:BP:62:SER:N	1.90	0.83
4:BX:66:ASP:OD2	4:BX:286:GLY:CA	2.26	0.83
4:BX:513:ALA:HB2	4:BZ:575:ILE:CB	2.09	0.83
1:AA:262:VAL:HB	1:AA:297:ARG:HB3	1.61	0.82
2:AJ:34:PHE:CD2	2:AJ:66:LEU:HD11	2.13	0.82
3:BG:251:LYS:O	3:BG:252:LEU:CB	2.21	0.82
3:BL:109:LYS:NZ	4:BX:496:ARG:NH2	2.27	0.82
3:BO:76:PHE:CD2	3:BO:110:GLY:O	2.32	0.82
3:BO:129:VAL:O	3:BO:187:MET:SD	2.37	0.82
3:BO:144:TYR:HD2	3:BO:144:TYR:C	1.81	0.82
3:BQ:105:LEU:O	3:BQ:108:THR:CG2	2.24	0.82
4:BX:618:ARG:HA	4:BX:622:LYS:HD2	1.61	0.82
4:BY:45:TYR:CE2	4:BY:474:VAL:HG22	2.14	0.82
1:AB:465:ASN:HD22	1:AB:468:VAL:HG23	1.40	0.82
2:AG:306:ALA:CB	3:BK:282:GLU:OE2	2.27	0.82
3:BJ:262:GLN:HE21	3:BJ:269:LEU:HD11	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:267:ASP:CB	3:BM:286:ARG:NH1	2.42	0.82
3:BM:268:VAL:HG21	3:BN:266:SER:CA	2.09	0.82
3:BO:268:VAL:HG11	3:BP:286:ARG:CZ	2.09	0.82
1:AA:766:ILE:CG2	1:AA:797:PRO:O	2.24	0.82
3:BG:69:ASN:CB	4:BY:507:ALA:CA	2.54	0.82
3:BO:55:ILE:CG2	3:BO:322:PHE:H	1.92	0.82
4:BY:42:GLN:HG3	4:BZ:329:ASN:HB3	1.62	0.82
4:BZ:730:LEU:HD12	4:BZ:734:TYR:CD1	2.14	0.82
1:AB:722:ASN:HD22	1:AB:824:LYS:HA	1.43	0.82
3:BJ:144:TYR:HE2	3:BJ:146:ALA:HB2	1.44	0.82
3:BK:105:LEU:O	3:BK:108:THR:CG2	2.23	0.82
3:BK:144:TYR:C	3:BK:144:TYR:CD2	2.50	0.82
4:BX:33:VAL:HG23	4:BY:36:ASN:HB3	1.62	0.82
4:BX:617:ARG:CA	4:BX:620:ARG:HE	1.88	0.82
4:BY:42:GLN:CB	4:BZ:329:ASN:O	2.26	0.82
1:AA:306:ASP:CB	1:AA:614:TYR:HE2	1.92	0.82
2:AK:239:ASN:ND2	3:BN:65:THR:HA	1.95	0.82
3:BM:73:GLU:O	3:BM:73:GLU:HG2	1.79	0.82
1:AA:744:TYR:OH	1:AB:282:VAL:HG23	1.79	0.82
3:BJ:257:ASN:HD21	3:BJ:313:ARG:HE	1.22	0.82
3:BJ:272:THR:HG21	3:BJ:277:THR:HG22	1.59	0.82
3:BK:141:LEU:HD12	3:BK:261:ILE:HG21	1.61	0.82
4:BX:328:PHE:CZ	4:BX:442:THR:HG23	2.14	0.82
4:BX:537:THR:HA	4:BX:540:ALA:HB3	1.61	0.82
4:BY:482:THR:CB	4:BY:483:PRO:HD2	2.08	0.82
4:BZ:269:ARG:O	4:BZ:270:ASP:O	1.97	0.82
4:BZ:544:MET:HE1	4:BZ:656:LEU:CD1	2.08	0.82
2:AK:268:GLN:OE1	4:BX:700:GLU:HB3	1.79	0.82
3:BA:115:SER:O	3:BA:117:TYR:CZ	2.33	0.82
3:BO:286:ARG:HH12	3:BQ:268:VAL:CG1	1.92	0.82
4:BY:5:ILE:HG12	4:BY:6:TYR:N	1.94	0.82
4:BY:717:VAL:HG12	4:BY:718:ILE:H	1.42	0.82
4:BY:730:LEU:O	4:BY:734:TYR:HB2	1.80	0.82
4:BZ:2:ALA:CB	4:BZ:635:ASP:HA	2.09	0.82
1:AA:396:PHE:HB3	1:AA:578:LEU:CD1	2.10	0.82
1:AB:415:PRO:HG2	1:AB:480:PHE:CD1	2.13	0.82
3:BI:185:ILE:CD1	3:BI:249:CYS:SG	2.66	0.82
3:BL:166:ASN:OD1	3:BL:248:ASN:HB3	1.80	0.82
3:BO:55:ILE:HD12	3:BO:323:TYR:HD1	1.43	0.82
3:BQ:251:LYS:O	3:BQ:252:LEU:CB	2.26	0.82
4:BX:48:VAL:H	4:BX:419:VAL:HG12	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:105:LEU:O	3:BA:108:THR:CG2	2.24	0.82
3:BA:116:VAL:C	3:BA:116:VAL:HG12	2.00	0.82
3:BI:137:TYR:OH	3:BI:312:LYS:HB2	1.80	0.82
3:BM:153:SER:HA	3:BM:269:LEU:HD11	1.60	0.82
3:BQ:64:ASP:O	3:BQ:65:THR:OG1	1.95	0.82
3:BQ:144:TYR:C	3:BQ:144:TYR:CD2	2.51	0.82
4:BZ:541:ALA:N	4:BZ:544:MET:HE2	1.95	0.82
1:AA:200:VAL:HB	1:AA:243:SER:CB	2.10	0.82
1:AA:508:GLU:C	1:AA:512:GLN:HE21	1.82	0.82
1:AB:440:PHE:CA	1:AB:518:PHE:HE1	1.91	0.82
1:AB:510:LEU:HD12	1:AB:513:LEU:HD12	1.62	0.82
2:AH:35:ASN:HA	2:AH:65:LEU:CD2	2.08	0.82
2:AH:246:THR:CG2	3:BK:67:TYR:HE2	1.90	0.82
3:BN:323:TYR:O	3:BN:324:TYR:CB	2.28	0.82
3:BP:144:TYR:HE2	3:BP:146:ALA:HB2	1.43	0.82
3:BP:252:LEU:HG	3:BP:253:GLY:N	1.94	0.82
1:AA:548:ARG:HH12	1:AA:878:ASN:H	1.26	0.81
1:AA:725:ARG:NH2	1:AA:829:ILE:CD1	2.43	0.81
1:AB:471:TRP:O	1:AB:475:VAL:HG23	1.80	0.81
2:AI:163:SER:HB2	3:BL:62:SER:HA	1.62	0.81
3:BF:69:ASN:ND2	5:B:1:NAG:O5	2.13	0.81
3:BF:144:TYR:C	3:BF:144:TYR:CD2	2.52	0.81
3:BG:55:ILE:HG23	3:BO:52:ASN:O	1.79	0.81
3:BM:252:LEU:HG	3:BM:253:GLY:H	1.44	0.81
3:BN:251:LYS:CG	3:BN:252:LEU:H	1.92	0.81
3:BO:144:TYR:HE2	3:BO:146:ALA:HB2	1.44	0.81
4:BX:688:GLY:O	4:BX:689:ARG:HB2	1.80	0.81
4:BY:582:ARG:O	4:BY:593:ASP:HB2	1.80	0.81
1:AA:200:VAL:CB	1:AA:243:SER:HB3	2.10	0.81
1:AB:508:GLU:CG	1:AB:512:GLN:NE2	2.42	0.81
1:AB:590:ASN:HD22	1:AB:590:ASN:N	1.78	0.81
3:BF:199:ASN:HA	4:BY:494:LEU:HD21	1.62	0.81
3:BG:136:ASP:HA	3:BG:315:ARG:HD2	1.62	0.81
3:BI:64:ASP:O	3:BI:65:THR:CG2	2.28	0.81
3:BI:174:TYR:CE1	3:BI:198:LEU:CD1	2.63	0.81
3:BP:268:VAL:CG1	3:BQ:286:ARG:HH12	1.92	0.81
3:BQ:129:VAL:O	3:BQ:131:PRO:HD3	1.80	0.81
4:BZ:5:ILE:O	4:BZ:9:LEU:HG	1.80	0.81
4:BZ:584:VAL:HG11	4:BZ:705:VAL:HB	1.59	0.81
1:AB:790:ARG:NE	1:AB:790:ARG:CA	2.21	0.81
2:AK:145:ARG:HD3	2:AL:143:ASN:HA	0.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:255:ARG:NH1	3:BO:65:THR:OG1	2.13	0.81
2:AO:106:ARG:H	2:AO:106:ARG:HD3	1.45	0.81
3:BF:138:ASN:O	3:BF:258:VAL:HA	1.81	0.81
3:BG:127:PHE:HD2	3:BG:155:LEU:CD2	1.93	0.81
3:BI:251:LYS:O	3:BI:252:LEU:CB	2.26	0.81
3:BI:288:ASN:HB2	3:BK:270:ASP:HB3	1.62	0.81
3:BJ:277:THR:HG22	3:BJ:279:PRO:HD3	1.63	0.81
3:BK:127:PHE:HD2	3:BK:155:LEU:CD2	1.93	0.81
3:BO:144:TYR:C	3:BO:144:TYR:CD2	2.52	0.81
4:BX:5:ILE:HG12	4:BX:6:TYR:N	1.96	0.81
4:BX:35:ILE:HG23	4:BY:482:THR:O	1.80	0.81
4:BX:506:ASN:OD1	4:BX:775:ARG:HG3	1.80	0.81
4:BZ:692:ALA:O	4:BZ:700:GLU:HA	1.80	0.81
2:AC:239:ASN:ND2	3:BG:66:ALA:O	2.10	0.81
2:AK:69:THR:O	2:AK:70:LEU:HB2	1.79	0.81
2:AM:34:PHE:CD2	2:AM:66:LEU:HD11	2.15	0.81
3:BF:159:ILE:HD11	3:BF:260:VAL:HG22	1.63	0.81
3:BH:277:THR:HG22	3:BH:279:PRO:HD3	1.63	0.81
3:BQ:129:VAL:C	3:BQ:131:PRO:CD	2.42	0.81
4:BZ:5:ILE:HG12	4:BZ:6:TYR:N	1.94	0.81
1:AA:192:ASN:O	1:AA:193:SER:HB3	1.77	0.81
1:AA:571:LEU:HD11	1:AB:531:ARG:HH11	1.45	0.81
1:AA:697:ASP:HB3	1:AA:765:PHE:CE2	2.15	0.81
1:AB:368:THR:HA	1:AB:579:THR:HG23	1.61	0.81
1:AB:724:ALA:HB2	1:AB:824:LYS:HE3	1.61	0.81
3:BM:251:LYS:CG	3:BM:252:LEU:H	1.92	0.81
3:BP:121:TYR:HB2	3:BP:127:PHE:HB2	1.63	0.81
4:BY:253:ASP:O	4:BY:254:ILE:HG13	1.80	0.81
1:AA:204:THR:CG2	1:AA:244:ILE:CG1	2.50	0.81
2:AN:313:PRO:HD2	3:BO:279:PRO:CB	2.10	0.81
3:BH:121:TYR:HB2	3:BH:127:PHE:HB2	1.63	0.81
3:BL:174:TYR:CE1	3:BL:198:LEU:CD1	2.63	0.81
3:BP:128:SER:HB2	3:BP:155:LEU:HD13	1.58	0.81
4:BX:72:THR:CB	4:BX:333:LEU:HD11	2.10	0.81
4:BX:701:ILE:CD1	4:BX:702:PRO:HD2	2.11	0.81
1:AA:197:GLY:O	1:AA:198:LYS:O	1.99	0.81
1:AA:449:ASN:HD21	1:AA:455:PRO:HG3	1.46	0.81
1:AA:503:VAL:O	1:AA:503:VAL:CG1	2.22	0.81
2:AI:57:ARG:NH1	2:AI:94:ASN:HD21	1.78	0.81
3:BH:251:LYS:CG	3:BH:252:LEU:H	1.90	0.81
3:BP:174:TYR:CE1	3:BP:198:LEU:CD1	2.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:674:ARG:NH2	4:BZ:745:LEU:HD22	1.94	0.81
1:AA:275:PRO:HB2	1:AA:278:ILE:HG13	1.61	0.81
1:AA:390:ARG:HE	1:AA:574:GLU:HG2	1.46	0.81
1:AB:506:LEU:HD23	1:AB:544:VAL:HA	1.63	0.81
2:AC:57:ARG:NH1	2:AC:94:ASN:HD21	1.79	0.81
2:AE:164:PHE:N	3:BF:61:GLY:O	2.14	0.81
3:BI:158:LEU:HD12	3:BI:224:LEU:HD21	1.62	0.81
3:BJ:174:TYR:CE1	3:BJ:198:LEU:CD1	2.63	0.81
3:BL:159:ILE:HD11	3:BL:260:VAL:HG22	1.63	0.81
3:BL:164:LEU:HD12	3:BL:322:PHE:CD1	2.15	0.81
3:BL:251:LYS:CG	3:BL:252:LEU:H	1.93	0.81
3:BL:266:SER:HA	3:BN:268:VAL:CG1	2.11	0.81
4:BX:262:TRP:CZ3	4:BX:367:TYR:CD2	2.69	0.81
4:BX:689:ARG:HB3	4:BX:691:PHE:CE1	2.14	0.81
4:BY:734:TYR:OH	4:BY:761:PRO:HB2	1.81	0.81
4:BZ:619:LEU:HD11	4:BZ:712:VAL:HG11	1.61	0.81
4:BZ:674:ARG:HH21	4:BZ:745:LEU:HD22	1.46	0.81
1:AA:634:TYR:HB2	1:AB:875:ARG:HH22	1.44	0.81
1:AB:811:LEU:N	1:AB:811:LEU:HD23	1.94	0.81
2:AL:57:ARG:NH1	2:AL:94:ASN:HD21	1.79	0.81
3:BF:277:THR:HG22	3:BF:279:PRO:HD3	1.63	0.81
3:BG:272:THR:CG2	3:BG:277:THR:CG2	2.57	0.81
3:BJ:121:TYR:HB2	3:BJ:127:PHE:HB2	1.63	0.81
3:BK:174:TYR:CE1	3:BK:198:LEU:CD1	2.63	0.81
3:BM:121:TYR:HB2	3:BM:127:PHE:HB2	1.63	0.81
3:BN:200:THR:HG22	4:BX:493:ASP:OD1	1.81	0.81
4:BY:5:ILE:O	4:BY:9:LEU:HG	1.81	0.81
1:AB:435:ILE:O	1:AB:438:PRO:HD2	1.80	0.81
2:AI:255:ARG:CD	3:BM:65:THR:OG1	2.29	0.81
2:AM:255:ARG:CZ	3:BO:65:THR:HG1	1.93	0.81
3:BA:127:PHE:HD2	3:BA:155:LEU:CD2	1.93	0.81
3:BG:105:LEU:O	3:BG:108:THR:CG2	2.23	0.81
3:BK:121:TYR:HB2	3:BK:127:PHE:HB2	1.63	0.81
3:BM:191:CYS:CB	3:BM:244:CYS:HG	1.94	0.81
3:BP:229:VAL:HG11	3:BP:235:HIS:ND1	1.96	0.81
3:BQ:127:PHE:HD2	3:BQ:155:LEU:CD2	1.93	0.81
3:BQ:174:TYR:CE1	3:BQ:198:LEU:CD1	2.63	0.81
4:BX:48:VAL:N	4:BX:419:VAL:CG1	2.44	0.81
4:BY:419:VAL:HG12	4:BY:420:SER:N	1.94	0.81
1:AA:762:ALA:O	1:AA:763:LEU:HG	1.80	0.80
1:AB:387:LEU:HD23	1:AB:554:TYR:HE1	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:508:GLU:O	1:AB:512:GLN:HG3	1.81	0.80
2:AJ:299:ASN:OD1	3:BN:71:THR:OG1	1.99	0.80
3:BI:138:ASN:O	3:BI:258:VAL:HA	1.81	0.80
3:BK:257:ASN:CG	3:BK:313:ARG:HG2	2.00	0.80
3:BO:174:TYR:CE1	3:BO:198:LEU:CD1	2.63	0.80
3:BO:268:VAL:CG1	3:BO:269:LEU:N	2.24	0.80
3:BP:314:SER:CB	3:BP:315:ARG:NH1	2.44	0.80
2:AN:255:ARG:CD	3:BP:65:THR:OG1	2.29	0.80
3:BK:138:ASN:O	3:BK:258:VAL:HA	1.81	0.80
3:BL:69:ASN:CG	4:BX:507:ALA:HA	2.02	0.80
3:BL:268:VAL:HG11	3:BL:280:GLN:HE22	1.46	0.80
3:BM:268:VAL:CG1	3:BN:266:SER:HA	2.12	0.80
4:BX:48:VAL:HB	4:BX:419:VAL:CG1	2.10	0.80
4:BX:516:GLN:HB2	4:BZ:572:ALA:HA	1.64	0.80
4:BZ:615:ILE:O	4:BZ:619:LEU:HB2	1.82	0.80
1:AA:216:GLU:H	1:AA:216:GLU:CD	1.84	0.80
1:AA:333:VAL:HG11	1:AA:380:LYS:CA	2.09	0.80
2:AI:171:PRO:HD3	3:BJ:322:PHE:CZ	2.16	0.80
3:BF:150:LEU:HD21	3:BG:290:LYS:CE	2.10	0.80
3:BF:258:VAL:CG1	3:BF:259:ALA:N	2.44	0.80
3:BH:144:TYR:HE2	3:BH:146:ALA:HB2	1.44	0.80
3:BJ:129:VAL:O	3:BJ:131:PRO:CD	2.29	0.80
3:BJ:229:VAL:HG11	3:BJ:235:HIS:ND1	1.97	0.80
3:BQ:138:ASN:O	3:BQ:258:VAL:HA	1.81	0.80
4:BZ:432:VAL:CG1	4:BZ:448:TYR:HB3	2.00	0.80
1:AA:204:THR:HG23	1:AA:244:ILE:CD1	2.10	0.80
1:AA:437:TYR:N	1:AA:438:PRO:HD2	1.96	0.80
1:AB:521:MET:HB2	1:AB:522:PRO:CD	2.11	0.80
1:AB:765:PHE:O	1:AB:766:ILE:HD13	1.81	0.80
2:AC:295:MET:HE1	3:BH:67:TYR:CZ	2.16	0.80
3:BG:138:ASN:O	3:BG:258:VAL:HA	1.81	0.80
3:BG:310:MET:CG	3:BG:311:SER:H	1.89	0.80
3:BI:251:LYS:CG	3:BI:252:LEU:H	1.90	0.80
3:BI:255:ARG:CD	3:BI:257:ASN:HD22	1.92	0.80
3:BI:310:MET:CG	3:BI:311:SER:H	1.93	0.80
3:BJ:138:ASN:O	3:BJ:258:VAL:HA	1.81	0.80
3:BK:251:LYS:CG	3:BK:252:LEU:H	1.90	0.80
3:BK:261:ILE:CD1	3:BK:287:ILE:CD1	2.59	0.80
3:BL:229:VAL:HG11	3:BL:235:HIS:ND1	1.97	0.80
3:BO:153:SER:CA	3:BO:269:LEU:CD1	2.60	0.80
3:BP:53:TYR:HD1	3:BP:322:PHE:CZ	1.99	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BQ:191:CYS:CB	3:BQ:244:CYS:HG	1.94	0.80
4:BY:317:THR:OG1	4:BY:356:TRP:CH2	2.34	0.80
4:BY:688:GLY:O	4:BY:689:ARG:HB2	1.81	0.80
4:BZ:265:MET:O	4:BZ:472:SER:HB2	1.81	0.80
4:BZ:540:ALA:HB1	4:BZ:544:MET:SD	2.22	0.80
1:AA:570:THR:HG22	1:AA:571:LEU:H	1.47	0.80
1:AA:647:LYS:HE3	1:AA:654:ILE:HD13	1.63	0.80
1:AA:647:LYS:HG3	1:AA:654:ILE:HG21	1.63	0.80
2:AM:255:ARG:NE	3:BO:65:THR:HG1	1.76	0.80
3:BA:277:THR:HG22	3:BA:279:PRO:HD3	1.63	0.80
3:BF:162:GLU:HB3	3:BF:253:GLY:O	1.80	0.80
3:BF:174:TYR:CE1	3:BF:234:ASN:CB	2.62	0.80
3:BF:315:ARG:NE	3:BF:317:LEU:HD22	1.96	0.80
3:BI:266:SER:HB2	3:BK:268:VAL:H	1.42	0.80
3:BK:56:ASN:O	3:BK:57:LEU:HD23	1.81	0.80
3:BK:144:TYR:HE2	3:BK:146:ALA:HB2	1.45	0.80
3:BK:261:ILE:HD11	3:BK:287:ILE:CG1	2.11	0.80
3:BL:144:TYR:HE2	3:BL:146:ALA:HB2	1.43	0.80
3:BM:174:TYR:CE1	3:BM:198:LEU:CD1	2.64	0.80
3:BM:268:VAL:CG2	3:BN:266:SER:CB	2.58	0.80
3:BO:138:ASN:O	3:BO:258:VAL:HA	1.81	0.80
3:BQ:144:TYR:HE2	3:BQ:146:ALA:HB2	1.44	0.80
3:BQ:277:THR:HG22	3:BQ:279:PRO:HD3	1.63	0.80
4:BX:2:ALA:HB2	4:BX:635:ASP:HA	1.62	0.80
4:BY:51:GLY:C	4:BY:423:SER:HB2	2.02	0.80
4:BY:261:LEU:HD13	4:BY:478:ASP:HB2	1.64	0.80
4:BY:264:GLU:CB	4:BY:473:LEU:CD2	2.57	0.80
4:BY:573:SER:CB	4:BZ:643:THR:HG23	2.12	0.80
4:BY:674:ARG:HH21	4:BY:745:LEU:HD22	1.45	0.80
3:BA:300:VAL:O	3:BA:303:VAL:CG2	2.30	0.80
3:BF:229:VAL:HG11	3:BF:235:HIS:ND1	1.97	0.80
3:BF:251:LYS:CG	3:BF:252:LEU:H	1.92	0.80
3:BH:229:VAL:HG11	3:BH:235:HIS:ND1	1.97	0.80
3:BL:121:TYR:HB2	3:BL:127:PHE:HB2	1.63	0.80
3:BN:127:PHE:HD2	3:BN:155:LEU:CD2	1.93	0.80
3:BN:229:VAL:HG11	3:BN:235:HIS:ND1	1.97	0.80
3:BO:55:ILE:HG13	3:BO:55:ILE:O	1.80	0.80
3:BP:300:VAL:O	3:BP:303:VAL:CG2	2.30	0.80
3:BQ:121:TYR:HB2	3:BQ:127:PHE:HB2	1.63	0.80
3:BQ:174:TYR:O	3:BQ:174:TYR:CG	2.34	0.80
1:AA:674:VAL:HG11	1:AA:678:ARG:HB2	1.57	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:156:PRO:HB2	1:AB:161:ASP:HB3	1.63	0.80
1:AB:166:PHE:HE2	1:AB:689:MET:HA	1.47	0.80
1:AB:422:GLU:HA	1:AB:425:VAL:CG2	2.12	0.80
2:AG:246:THR:HG23	3:BJ:67:TYR:CE2	2.17	0.80
3:BF:191:CYS:CB	3:BF:244:CYS:HG	1.94	0.80
3:BM:127:PHE:HD2	3:BM:155:LEU:CD2	1.93	0.80
3:BN:268:VAL:CG1	3:BN:268:VAL:O	2.30	0.80
3:BP:313:ARG:CG	3:BP:316:SER:HB2	2.11	0.80
3:BQ:73:GLU:O	3:BQ:73:GLU:HG2	1.82	0.80
4:BX:600:ASP:O	4:BX:601:VAL:HG22	1.82	0.80
4:BY:566:ASP:HB3	4:BY:570:ASP:OD2	1.81	0.80
4:BZ:624:MET:SD	4:BZ:632:ASN:HB3	2.22	0.80
1:AA:169:LEU:O	1:AA:173:VAL:HG23	1.82	0.80
1:AA:200:VAL:CG2	1:AA:242:PRO:O	2.30	0.80
1:AA:317:LEU:HD22	1:AA:652:PHE:CD2	2.17	0.80
1:AA:447:TYR:OH	1:AA:458:ILE:HG23	1.81	0.80
1:AB:193:SER:HB2	1:AB:226:ALA:HA	1.64	0.80
1:AB:456:PHE:CZ	1:AB:471:TRP:HZ3	1.97	0.80
3:BH:138:ASN:O	3:BH:258:VAL:HA	1.81	0.80
3:BJ:169:ASP:HB3	3:BJ:173:TYR:CE1	2.17	0.80
3:BK:277:THR:HG22	3:BK:279:PRO:HD3	1.63	0.80
3:BL:277:THR:HG22	3:BL:279:PRO:HD3	1.63	0.80
3:BP:138:ASN:O	3:BP:258:VAL:HA	1.81	0.80
4:BY:482:THR:CB	4:BY:483:PRO:CD	2.59	0.80
3:BF:144:TYR:HE2	3:BF:146:ALA:HB2	1.44	0.80
3:BG:229:VAL:HG11	3:BG:235:HIS:ND1	1.97	0.80
3:BI:300:VAL:O	3:BI:303:VAL:CG2	2.30	0.80
3:BQ:300:VAL:O	3:BQ:303:VAL:CG2	2.30	0.80
4:BX:734:TYR:CE2	4:BX:761:PRO:CB	2.65	0.80
3:BM:138:ASN:O	3:BM:258:VAL:HA	1.81	0.80
3:BM:268:VAL:HB	3:BN:266:SER:HB2	1.64	0.80
3:BM:300:VAL:O	3:BM:303:VAL:CG2	2.30	0.80
3:BN:64:ASP:C	3:BN:65:THR:HG22	2.02	0.80
3:BO:121:TYR:HB2	3:BO:127:PHE:HB2	1.63	0.80
4:BY:540:ALA:HB1	4:BY:544:MET:CE	2.12	0.80
1:AA:658:PRO:HB2	1:AA:660:ASP:OD1	1.82	0.79
3:BA:121:TYR:HB2	3:BA:127:PHE:HB2	1.63	0.79
3:BA:138:ASN:O	3:BA:258:VAL:HA	1.81	0.79
3:BF:300:VAL:O	3:BF:303:VAL:CG2	2.30	0.79
3:BK:300:VAL:O	3:BK:303:VAL:CG2	2.30	0.79
3:BL:266:SER:CA	3:BN:268:VAL:HG12	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:267:ASP:H	3:BN:268:VAL:HB	1.46	0.79
3:BP:307:ILE:HA	3:BP:310:MET:HE3	1.64	0.79
4:BY:264:GLU:HG3	4:BY:473:LEU:HD21	0.80	0.79
4:BY:572:ALA:CB	4:BZ:516:GLN:HB2	2.11	0.79
1:AA:452:PRO:HG2	1:AB:521:MET:C	2.02	0.79
3:BI:121:TYR:CB	3:BI:127:PHE:CD1	2.65	0.79
3:BI:164:LEU:CD1	3:BI:322:PHE:CD2	2.65	0.79
3:BJ:59:ILE:HD11	3:BL:53:TYR:CD2	2.18	0.79
3:BJ:125:ALA:HB3	3:BJ:223:LYS:HD3	1.65	0.79
3:BP:105:LEU:O	3:BP:108:THR:CG2	2.24	0.79
4:BZ:620:ARG:NH1	4:BZ:686:THR:HG21	1.97	0.79
1:AB:224:PHE:O	1:AB:228:MET:HG2	1.81	0.79
1:AB:283:ASN:HD21	1:AB:868:ALA:HA	1.47	0.79
1:AB:283:ASN:ND2	1:AB:868:ALA:HA	1.96	0.79
1:AB:366:PHE:C	1:AB:368:THR:H	1.84	0.79
2:AC:364:GLY:HA3	4:BY:733:ASN:CG	2.03	0.79
3:BF:127:PHE:HD2	3:BF:155:LEU:CD2	1.93	0.79
3:BG:162:GLU:HB3	3:BG:253:GLY:O	1.81	0.79
3:BI:229:VAL:HG11	3:BI:235:HIS:ND1	1.97	0.79
3:BL:300:VAL:O	3:BL:303:VAL:CG2	2.30	0.79
3:BM:277:THR:HG22	3:BM:279:PRO:HD3	1.63	0.79
3:BN:277:THR:HG22	3:BN:279:PRO:HD3	1.63	0.79
3:BO:126:SER:O	3:BO:129:VAL:HG23	1.83	0.79
3:BO:315:ARG:NH1	3:BO:323:TYR:HD2	1.78	0.79
4:BX:716:PRO:HD2	4:BY:750:ARG:HH21	1.45	0.79
4:BY:612:THR:O	4:BY:615:ILE:HG22	1.81	0.79
4:BZ:617:ARG:HA	4:BZ:620:ARG:HE	1.47	0.79
1:AB:306:ASP:C	1:AB:308:LEU:H	1.86	0.79
2:AC:239:ASN:HA	3:BG:67:TYR:CE2	2.13	0.79
2:AD:76:ASN:H	2:AL:76:ASN:HB2	1.47	0.79
2:AD:171:PRO:CB	3:BH:312:LYS:HD2	2.13	0.79
3:BG:277:THR:HG22	3:BG:279:PRO:HD3	1.63	0.79
3:BH:300:VAL:O	3:BH:303:VAL:CG2	2.30	0.79
3:BK:229:VAL:HG11	3:BK:235:HIS:ND1	1.97	0.79
3:BM:229:VAL:HG11	3:BM:235:HIS:ND1	1.97	0.79
3:BN:162:GLU:CB	3:BN:253:GLY:O	2.30	0.79
3:BO:289:TRP:O	3:BQ:150:LEU:CD2	2.27	0.79
3:BO:300:VAL:O	3:BO:303:VAL:CG2	2.30	0.79
4:BZ:23:GLN:O	4:BZ:27:SER:HB2	1.83	0.79
1:AB:405:ILE:HG22	1:AB:536:LEU:HD11	1.63	0.79
2:AC:299:ASN:OD1	3:BH:71:THR:CB	2.29	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AF:57:ARG:NH1	2:AF:94:ASN:HD21	1.79	0.79
3:BI:121:TYR:HB2	3:BI:127:PHE:HB2	1.64	0.79
3:BN:121:TYR:HB2	3:BN:127:PHE:HB2	1.63	0.79
3:BP:277:THR:HG22	3:BP:279:PRO:HD3	1.63	0.79
4:BX:473:LEU:CD2	4:BY:262:TRP:CE2	2.56	0.79
4:BY:50:TRP:H	4:BY:421:LEU:HD11	1.44	0.79
2:AD:310:ASN:HB2	3:BH:180:GLU:OE2	1.83	0.79
3:BA:144:TYR:HE2	3:BA:146:ALA:HB2	1.46	0.79
3:BJ:105:LEU:O	3:BJ:108:THR:CG2	2.23	0.79
3:BJ:272:THR:HG21	3:BJ:277:THR:CG2	2.13	0.79
3:BP:73:GLU:O	3:BP:73:GLU:HG2	1.81	0.79
4:BY:2:ALA:CB	4:BY:635:ASP:HA	2.12	0.79
4:BY:50:TRP:HB2	4:BY:356:TRP:CB	2.13	0.79
1:AA:126:PHE:CE2	1:AA:150:LEU:CD1	2.65	0.79
1:AA:570:THR:O	1:AA:571:LEU:HD23	1.83	0.79
1:AA:721:VAL:CG1	1:AA:722:ASN:H	1.88	0.79
1:AB:415:PRO:HG2	1:AB:480:PHE:HD1	1.47	0.79
3:BG:160:LEU:HD23	3:BG:258:VAL:HG13	1.65	0.79
3:BI:121:TYR:CB	3:BI:127:PHE:HD1	1.94	0.79
3:BJ:129:VAL:O	3:BJ:131:PRO:HD3	1.82	0.79
3:BL:172:LEU:HB2	3:BL:173:TYR:CD1	2.17	0.79
3:BO:277:THR:HG22	3:BO:279:PRO:HD3	1.63	0.79
3:BQ:125:ALA:HB3	3:BQ:223:LYS:HD3	1.64	0.79
4:BX:71:PRO:O	4:BX:72:THR:CG2	2.31	0.79
4:BZ:506:ASN:OD1	4:BZ:775:ARG:HG3	1.83	0.79
1:AA:122:LEU:HD21	1:AA:200:VAL:HG12	1.64	0.79
1:AB:507:MET:HB3	2:AJ:69:THR:HB	1.63	0.79
1:AB:869:VAL:CG1	1:AB:873:ASN:HA	2.13	0.79
2:AK:142:GLN:OE1	2:AL:145:ARG:CZ	2.30	0.79
2:AK:238:ILE:HG23	3:BN:63:MET:HE3	1.64	0.79
2:AM:23:LEU:HD23	2:AM:24:TYR:N	1.98	0.79
3:BA:173:TYR:CE2	3:BQ:113:THR:HB	2.18	0.79
3:BG:121:TYR:HB2	3:BG:127:PHE:HB2	1.63	0.79
3:BN:144:TYR:HE2	3:BN:146:ALA:HB2	1.44	0.79
3:BO:125:ALA:HB1	3:BO:223:LYS:CG	2.12	0.79
4:BY:274:ARG:NH2	4:BY:305:TYR:HD1	1.80	0.79
4:BY:485:THR:CG2	4:BY:485:THR:O	2.31	0.79
4:BZ:269:ARG:O	4:BZ:270:ASP:C	2.21	0.79
1:AB:466:PHE:HE1	2:AH:80:THR:HG22	1.45	0.79
2:AH:76:ASN:HB2	2:AJ:76:ASN:HB2	1.62	0.79
3:BH:160:LEU:HD23	3:BH:258:VAL:HG13	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:144:TYR:HE2	3:BI:146:ALA:HB2	1.44	0.79
3:BJ:55:ILE:HG22	3:BJ:56:ASN:H	1.46	0.79
3:BM:129:VAL:C	3:BM:131:PRO:HD3	2.02	0.79
3:BO:55:ILE:CG2	3:BO:322:PHE:N	2.46	0.79
1:AA:474:PHE:HD1	2:AG:69:THR:HG23	1.47	0.79
1:AA:521:MET:HE2	1:AA:521:MET:HA	1.65	0.79
1:AA:726:ASN:O	1:AA:727:LEU:HG	1.82	0.79
2:AO:27:VAL:O	2:AO:31:ILE:HG12	1.82	0.79
3:BA:125:ALA:HB3	3:BA:223:LYS:HD3	1.64	0.79
3:BA:160:LEU:HD23	3:BA:258:VAL:HG13	1.65	0.79
3:BA:229:VAL:HG11	3:BA:235:HIS:ND1	1.97	0.79
3:BF:121:TYR:HB2	3:BF:127:PHE:HB2	1.63	0.79
3:BI:132:GLN:HB3	3:BI:319:SER:HB3	1.64	0.79
3:BJ:172:LEU:HB2	3:BJ:173:TYR:CZ	2.18	0.79
3:BP:76:PHE:CE2	3:BP:110:GLY:HA3	2.18	0.79
4:BX:679:ASP:HB3	4:BX:695:VAL:HG12	1.64	0.79
4:BY:47:PRO:CB	4:BY:419:VAL:CG1	2.43	0.79
4:BZ:612:THR:O	4:BZ:615:ILE:HG22	1.83	0.79
4:BZ:616:SER:O	4:BZ:620:ARG:HG2	1.83	0.79
1:AB:265:LEU:HB3	1:AB:296:ALA:HB1	1.65	0.78
1:AB:511:MET:HE3	2:AJ:70:LEU:CD2	2.12	0.78
2:AE:163:SER:HB2	3:BF:62:SER:HA	1.65	0.78
3:BF:199:ASN:HA	4:BY:494:LEU:CD2	2.13	0.78
3:BG:116:VAL:CG1	3:BG:117:TYR:H	1.95	0.78
3:BI:277:THR:HG22	3:BI:279:PRO:HD3	1.63	0.78
3:BJ:300:VAL:O	3:BJ:303:VAL:CG2	2.30	0.78
3:BL:127:PHE:HD2	3:BL:155:LEU:CD2	1.93	0.78
3:BM:268:VAL:CB	3:BN:266:SER:HA	2.13	0.78
3:BO:153:SER:HA	3:BO:269:LEU:CD1	2.13	0.78
3:BQ:165:CYS:HB3	3:BQ:247:ARG:CG	2.12	0.78
4:BX:407:ALA:HB3	4:BX:427:ARG:HG2	1.63	0.78
4:BY:474:VAL:HG12	4:BY:476:SER:H	1.47	0.78
4:BY:518:ILE:HD11	4:BY:756:ILE:CD1	2.13	0.78
1:AA:661:GLN:NE2	1:AB:348:LYS:NZ	2.31	0.78
1:AA:755:GLN:O	1:AA:757:VAL:HG23	1.83	0.78
1:AB:701:GLN:HA	1:AB:761:GLY:O	1.82	0.78
2:AE:289:ARG:HH12	4:BY:689:ARG:HD3	1.48	0.78
2:AG:23:LEU:HD23	2:AG:24:TYR:N	1.98	0.78
2:AG:255:ARG:CZ	3:BK:65:THR:OG1	2.31	0.78
2:AH:38:ILE:HD12	2:AH:65:LEU:CD2	2.12	0.78
2:AH:241:ALA:HB2	3:BK:59:ILE:HG21	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AJ:23:LEU:HD23	2:AJ:24:TYR:N	1.98	0.78
2:AJ:24:TYR:HB2	2:AJ:70:LEU:O	1.82	0.78
2:AJ:241:ALA:CB	3:BM:59:ILE:HG21	2.13	0.78
3:BG:300:VAL:O	3:BG:303:VAL:CG2	2.30	0.78
3:BJ:164:LEU:HD21	3:BL:315:ARG:HH21	1.49	0.78
3:BL:126:SER:CA	3:BL:223:LYS:HZ1	1.92	0.78
3:BM:144:TYR:CB	3:BM:264:GLY:HA3	2.12	0.78
3:BM:144:TYR:HB3	3:BM:264:GLY:HA3	1.65	0.78
3:BN:300:VAL:O	3:BN:303:VAL:CG2	2.30	0.78
4:BX:612:THR:O	4:BX:615:ILE:HG22	1.83	0.78
1:AA:259:HIS:NE2	1:AA:677:ARG:CG	2.42	0.78
1:AA:265:LEU:CD2	1:AA:292:LEU:CD1	2.62	0.78
1:AB:111:ILE:HG12	1:AB:650:GLN:OE1	1.84	0.78
1:AB:457:GLN:HG2	1:AB:476:ASN:CG	2.04	0.78
2:AG:241:ALA:CB	3:BJ:59:ILE:CG2	2.36	0.78
3:BI:160:LEU:HD23	3:BI:258:VAL:HG13	1.65	0.78
3:BP:314:SER:CB	3:BP:315:ARG:HH11	1.91	0.78
4:BX:262:TRP:CH2	4:BX:367:TYR:CD2	2.71	0.78
4:BY:463:GLU:HG3	4:BY:464:VAL:H	1.48	0.78
4:BZ:677:ASN:HD22	4:BZ:711:LEU:CD1	1.97	0.78
1:AA:503:VAL:HG22	1:AA:547:THR:HG21	1.65	0.78
1:AB:305:GLN:HG3	1:AB:489:LEU:HD22	1.66	0.78
1:AB:440:PHE:CE1	2:AH:68:THR:CB	2.66	0.78
3:BH:267:ASP:C	3:BH:268:VAL:HG23	2.03	0.78
3:BK:168:MET:HE1	3:BK:175:TYR:CE1	2.19	0.78
3:BO:127:PHE:HD2	3:BO:155:LEU:CD2	1.93	0.78
3:BO:229:VAL:HG11	3:BO:235:HIS:ND1	1.97	0.78
3:BQ:310:MET:CG	3:BQ:311:SER:H	1.94	0.78
4:BX:66:ASP:CB	4:BX:286:GLY:CA	2.61	0.78
4:BX:483:PRO:O	4:BX:484:ILE:CG1	2.31	0.78
4:BX:760:ASN:N	4:BX:761:PRO:CD	2.46	0.78
4:BY:581:ILE:HA	4:BY:597:GLN:CG	2.13	0.78
4:BZ:518:ILE:HD11	4:BZ:756:ILE:CD1	2.12	0.78
1:AA:178:PRO:HG2	1:AA:256:PHE:HD2	1.48	0.78
1:AB:91:LEU:HD11	1:AB:571:LEU:HD21	1.64	0.78
3:BF:125:ALA:HB3	3:BF:223:LYS:HD3	1.64	0.78
3:BH:127:PHE:HD2	3:BH:155:LEU:CD2	1.93	0.78
3:BH:153:SER:HA	3:BH:269:LEU:HD21	1.64	0.78
3:BM:268:VAL:HB	3:BN:266:SER:CB	2.14	0.78
3:BN:256:GLU:CG	3:BN:314:SER:OG	2.31	0.78
3:BN:326:ILE:HD13	3:BP:134:TYR:O	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:160:LEU:HD23	3:BP:258:VAL:HG13	1.65	0.78
3:BP:266:SER:HA	3:BP:286:ARG:HH22	1.49	0.78
4:BZ:272:THR:CG2	4:BZ:305:TYR:CD1	2.67	0.78
1:AB:492:VAL:CG1	1:AB:565:MET:SD	2.68	0.78
2:AG:19:VAL:O	2:AG:73:LEU:HD12	1.83	0.78
2:AH:35:ASN:CA	2:AH:65:LEU:CD2	2.62	0.78
3:BA:129:VAL:C	3:BA:131:PRO:CD	2.52	0.78
3:BF:172:LEU:CD2	4:BZ:466:GLY:CA	2.61	0.78
3:BI:144:TYR:HD2	3:BI:144:TYR:C	1.86	0.78
3:BL:270:ASP:C	3:BL:272:THR:N	2.35	0.78
4:BY:352:TYR:HA	4:BY:426:PHE:O	1.83	0.78
4:BY:581:ILE:HA	4:BY:597:GLN:HG2	1.66	0.78
1:AA:659:ASP:O	1:AA:662:MET:HB2	1.84	0.78
1:AB:117:LYS:C	1:AB:118:LYS:O	2.16	0.78
1:AB:508:GLU:C	1:AB:512:GLN:HE21	1.87	0.78
2:AH:35:ASN:HB3	2:AH:65:LEU:HD13	1.66	0.78
3:BN:57:LEU:HB3	3:BP:56:ASN:ND2	1.98	0.78
4:BX:33:VAL:O	4:BX:33:VAL:HG22	1.83	0.78
4:BX:262:TRP:HB2	4:BX:473:LEU:HD21	1.65	0.78
1:AA:131:LEU:HD12	1:AA:132:PRO:HD2	1.66	0.78
1:AA:245:LEU:HB3	1:AA:249:ASP:HB2	1.65	0.78
1:AA:666:ARG:HG3	1:AA:667:ASP:N	1.98	0.78
1:AB:454:THR:HG22	1:AB:455:PRO:HD2	1.66	0.78
1:AB:750:MET:HE2	1:AB:750:MET:HA	1.64	0.78
3:BG:59:ILE:HG22	3:BG:60:THR:H	1.47	0.78
3:BL:55:ILE:O	3:BL:55:ILE:CG2	2.29	0.78
3:BL:149:GLN:NE2	3:BL:269:LEU:HD21	1.97	0.78
3:BP:96:ASN:HD22	4:BX:39:PRO:CB	1.97	0.78
1:AB:791:LYS:O	1:AB:792:VAL:HG22	1.84	0.78
2:AC:168:ARG:HA	3:BO:52:ASN:N	1.97	0.78
2:AE:57:ARG:HH11	2:AE:94:ASN:HD21	1.31	0.78
2:AM:313:PRO:CD	3:BQ:279:PRO:CB	2.62	0.78
3:BJ:53:TYR:HB3	3:BL:55:ILE:CG1	2.13	0.78
3:BN:78:THR:HG22	3:BN:78:THR:O	1.84	0.78
3:BP:168:MET:CE	3:BP:175:TYR:CZ	2.66	0.78
4:BY:263:LYS:CB	4:BY:477:ASN:CB	2.61	0.78
1:AA:194:ARG:HH11	1:AA:229:ARG:HG2	1.49	0.78
1:AA:371:ASN:HB3	1:AA:583:SER:HB2	1.66	0.78
1:AA:697:ASP:C	1:AA:699:ILE:H	1.87	0.78
1:AB:282:VAL:HG13	1:AB:283:ASN:H	1.48	0.78
2:AI:170:GLN:HB2	3:BJ:322:PHE:CZ	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:255:ARG:HD3	3:BM:65:THR:OG1	1.83	0.78
2:AK:239:ASN:HD22	3:BN:65:THR:HA	1.47	0.78
3:BF:268:VAL:O	3:BF:269:LEU:HD23	1.84	0.78
3:BF:288:ASN:OD1	3:BH:150:LEU:HD13	1.84	0.78
3:BK:168:MET:CE	3:BK:175:TYR:CD1	2.67	0.78
3:BP:257:ASN:HD21	3:BP:313:ARG:NE	1.81	0.78
3:BQ:267:ASP:OD1	3:BQ:286:ARG:HD2	1.84	0.78
4:BX:643:THR:HG23	4:BZ:573:SER:OG	1.82	0.78
4:BY:29:LYS:HE2	4:BZ:25:ILE:O	1.84	0.78
2:AD:23:LEU:HD23	2:AD:24:TYR:N	1.98	0.77
2:AE:313:PRO:HD2	3:BF:279:PRO:HB3	1.64	0.77
2:AM:241:ALA:HB3	3:BQ:59:ILE:HD13	1.65	0.77
3:BL:109:LYS:CE	4:BX:496:ARG:NH2	2.47	0.77
3:BM:168:MET:CE	3:BM:175:TYR:CD1	2.68	0.77
3:BO:64:ASP:C	3:BO:65:THR:HG22	2.03	0.77
3:BO:266:SER:HA	3:BO:286:ARG:HH22	1.49	0.77
3:BP:60:THR:CG2	3:BP:62:SER:H	1.95	0.77
3:BQ:266:SER:HA	3:BQ:286:ARG:HH22	1.49	0.77
4:BX:35:ILE:CD1	4:BY:483:PRO:HA	2.14	0.77
4:BX:66:ASP:CG	4:BX:286:GLY:HA2	2.03	0.77
4:BX:649:THR:HB	4:BX:650:GLN:HE22	1.47	0.77
4:BY:40:PHE:HD2	4:BY:259:THR:CG2	1.95	0.77
1:AA:265:LEU:HD21	1:AA:292:LEU:CD1	2.13	0.77
1:AB:119:GLN:HE21	1:AB:181:LEU:HD11	1.49	0.77
4:BZ:272:THR:CG2	4:BZ:305:TYR:CG	2.67	0.77
2:AE:269:ILE:HG22	4:BY:728:LYS:CE	2.14	0.77
2:AH:69:THR:O	2:AH:70:LEU:CG	2.27	0.77
3:BJ:127:PHE:HD2	3:BJ:155:LEU:CD2	1.93	0.77
3:BO:285:MET:HE2	3:BO:285:MET:HA	1.64	0.77
3:BO:285:MET:SD	3:BQ:275:PRO:O	2.42	0.77
3:BP:127:PHE:HD2	3:BP:155:LEU:CD2	1.93	0.77
3:BP:317:LEU:CG	3:BP:318:ASN:H	1.97	0.77
3:BP:322:PHE:O	3:BP:323:TYR:CD1	2.37	0.77
4:BX:681:VAL:HB	4:BX:693:TYR:CD1	2.19	0.77
4:BY:27:SER:HB3	4:BZ:350:TYR:CE2	2.19	0.77
4:BZ:269:ARG:C	4:BZ:270:ASP:O	2.16	0.77
2:AH:57:ARG:HH11	2:AH:94:ASN:HD21	1.31	0.77
2:AH:255:ARG:CD	3:BI:65:THR:OG1	2.31	0.77
3:BH:153:SER:OG	3:BH:269:LEU:CD1	2.30	0.77
3:BO:55:ILE:CD1	3:BO:322:PHE:CD2	2.65	0.77
3:BO:208:LEU:HD12	4:BY:480:TYR:CE1	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:76:PHE:CD2	3:BP:110:GLY:HA3	2.19	0.77
4:BY:9:LEU:HD22	4:BY:549:MET:HE3	1.67	0.77
1:AA:154:THR:O	1:AA:155:LEU:O	2.01	0.77
1:AA:661:GLN:HE21	1:AB:348:LYS:HZ3	1.30	0.77
1:AB:459:ALA:O	1:AB:463:ILE:HG13	1.84	0.77
2:AE:272:THR:HG23	4:BY:729:ASN:OD1	1.85	0.77
2:AH:241:ALA:HB1	3:BK:59:ILE:HG21	1.65	0.77
3:BG:59:ILE:CG2	3:BG:60:THR:H	1.97	0.77
3:BI:128:SER:OG	3:BI:224:LEU:HD22	1.85	0.77
3:BJ:55:ILE:HG22	3:BJ:56:ASN:N	1.98	0.77
3:BL:129:VAL:HG22	3:BL:223:LYS:O	1.85	0.77
3:BP:191:CYS:CB	3:BP:244:CYS:HG	1.96	0.77
4:BY:715:SER:HB3	4:BY:716:PRO:HD2	1.65	0.77
4:BZ:688:GLY:O	4:BZ:689:ARG:HB2	1.82	0.77
1:AA:482:GLN:OE1	1:AA:493:LEU:HD22	1.84	0.77
1:AA:506:LEU:CD2	1:AA:544:VAL:HA	2.12	0.77
1:AB:482:GLN:CG	1:AB:493:LEU:CD2	2.46	0.77
2:AF:163:SER:OG	3:BI:62:SER:N	2.18	0.77
3:BF:149:GLN:HE21	3:BF:269:LEU:HD22	1.49	0.77
3:BG:162:GLU:CB	3:BG:253:GLY:O	2.32	0.77
3:BI:286:ARG:NH1	3:BK:268:VAL:HG12	1.98	0.77
3:BK:129:VAL:C	3:BK:131:PRO:HD3	2.04	0.77
3:BM:160:LEU:HD23	3:BM:258:VAL:HG13	1.65	0.77
3:BN:175:TYR:HE1	3:BN:237:LEU:HB2	1.50	0.77
4:BX:37:LEU:CD1	4:BY:40:PHE:HE1	1.98	0.77
4:BX:354:ASP:HB3	4:BX:423:SER:OG	1.83	0.77
4:BX:554:LYS:HG2	4:BX:554:LYS:O	1.85	0.77
4:BY:355:TYR:CE2	4:BY:424:LEU:CD1	2.67	0.77
1:AA:320:THR:CG2	1:AA:651:ILE:CG2	2.60	0.77
1:AA:619:ASN:OD1	1:AA:675:GLU:HG3	1.84	0.77
1:AA:771:VAL:HG13	1:AA:772:ILE:H	1.47	0.77
1:AB:204:THR:CG2	1:AB:244:ILE:HG22	2.15	0.77
1:AB:700:ALA:HB2	1:AB:827:LYS:HB2	1.67	0.77
1:AB:743:ASP:CB	1:AB:790:ARG:NH1	2.47	0.77
1:AB:825:VAL:HG12	1:AB:826:TYR:N	1.99	0.77
3:BF:289:TRP:O	3:BH:150:LEU:CD2	2.27	0.77
3:BG:318:ASN:OD1	3:BG:318:ASN:N	2.15	0.77
3:BJ:128:SER:CB	3:BJ:155:LEU:CD1	2.53	0.77
3:BM:168:MET:HE1	3:BM:175:TYR:CE1	2.20	0.77
3:BO:174:TYR:CE1	3:BO:198:LEU:HD12	2.20	0.77
3:BP:96:ASN:HB2	4:BX:39:PRO:HB2	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:268:VAL:CG1	3:BQ:286:ARG:NH1	2.48	0.77
3:BP:315:ARG:HD3	3:BP:315:ARG:N	2.00	0.77
3:BQ:130:ASP:O	3:BQ:132:GLN:HG2	1.83	0.77
4:BY:49:ASN:CB	4:BY:421:LEU:HD12	2.15	0.77
2:AD:313:PRO:HD2	3:BH:279:PRO:CB	2.15	0.77
3:BH:144:TYR:HD2	3:BH:144:TYR:C	1.88	0.77
3:BJ:160:LEU:HD23	3:BJ:258:VAL:HG13	1.65	0.77
3:BJ:266:SER:HA	3:BJ:286:ARG:HH22	1.49	0.77
3:BK:310:MET:O	3:BK:311:SER:HB2	1.82	0.77
3:BO:55:ILE:CG2	3:BO:322:PHE:HB3	2.14	0.77
3:BP:123:ASP:OD1	3:BP:126:SER:HB3	1.85	0.77
3:BP:144:TYR:HD2	3:BP:144:TYR:C	1.89	0.77
4:BZ:441:ARG:HD3	4:BZ:441:ARG:N	1.99	0.77
1:AA:639:LYS:O	1:AA:643:GLU:HG3	1.84	0.77
1:AB:119:GLN:NE2	1:AB:181:LEU:HD11	2.00	0.77
1:AB:594:ILE:HD12	1:AB:594:ILE:O	1.85	0.77
2:AE:269:ILE:CD1	4:BY:725:LYS:NZ	2.48	0.77
2:AK:145:ARG:HD2	2:AL:142:GLN:C	2.05	0.77
3:BL:88:GLU:OE1	3:BL:143:LYS:HE3	1.85	0.77
3:BM:268:VAL:HG23	3:BN:266:SER:HB2	1.65	0.77
3:BP:174:TYR:CE1	3:BP:198:LEU:HD12	2.20	0.77
4:BY:355:TYR:CD1	4:BY:357:ASP:OD1	2.38	0.77
4:BZ:695:VAL:CG1	4:BZ:696:GLU:H	1.96	0.77
1:AB:540:LEU:O	1:AB:544:VAL:HG23	1.85	0.77
1:AB:658:PRO:HB2	1:AB:661:GLN:HG2	1.67	0.77
3:BH:266:SER:HA	3:BH:286:ARG:HH22	1.50	0.77
3:BK:54:GLY:O	3:BK:55:ILE:CG2	2.32	0.77
3:BL:170:ILE:CG2	3:BL:237:LEU:O	2.32	0.77
3:BL:199:ASN:HB3	3:BL:205:ILE:HD11	1.65	0.77
3:BQ:229:VAL:HG11	3:BQ:235:HIS:ND1	1.97	0.77
1:AB:170:TYR:HE1	1:AB:681:ILE:HG23	1.49	0.76
3:BF:258:VAL:HG12	3:BF:259:ALA:N	1.99	0.76
3:BJ:52:ASN:O	3:BL:55:ILE:CG2	2.28	0.76
3:BO:272:THR:HG21	3:BO:277:THR:CG2	2.15	0.76
3:BQ:174:TYR:CE1	3:BQ:198:LEU:HD12	2.20	0.76
4:BX:34:THR:CB	4:BY:484:ILE:HD12	2.14	0.76
4:BY:492:GLN:O	4:BY:492:GLN:HG2	1.85	0.76
1:AA:105:LEU:HD13	1:AA:327:ILE:HG22	1.65	0.76
1:AA:428:GLN:NE2	1:AA:455:PRO:HB2	2.00	0.76
2:AE:203:ALA:HA	4:BY:775:ARG:CZ	2.15	0.76
3:BA:266:SER:HA	3:BA:286:ARG:HH22	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:73:GLU:HG2	3:BG:73:GLU:O	1.84	0.76
3:BG:125:ALA:CB	3:BG:223:LYS:CD	2.53	0.76
3:BI:128:SER:CB	3:BI:155:LEU:CD1	2.57	0.76
3:BI:268:VAL:HG11	3:BJ:286:ARG:NH1	2.00	0.76
3:BI:310:MET:O	3:BI:311:SER:CB	2.34	0.76
3:BM:307:ILE:HA	3:BM:310:MET:HE3	1.64	0.76
3:BO:315:ARG:NH1	3:BO:323:TYR:CE2	2.51	0.76
4:BX:652:SER:HB2	4:BX:653:PRO:HD2	1.67	0.76
1:AA:250:HIS:CD2	1:AA:840:HIS:HB2	2.21	0.76
1:AA:498:ARG:HB3	1:AA:505:GLN:HE22	1.48	0.76
2:AI:310:ASN:HB2	3:BL:180:GLU:OE2	1.86	0.76
2:AL:241:ALA:CB	3:BP:59:ILE:CG2	2.63	0.76
4:BX:689:ARG:HB3	4:BX:691:PHE:HE1	1.49	0.76
4:BY:618:ARG:HG2	4:BY:618:ARG:HH11	1.49	0.76
4:BZ:620:ARG:HH11	4:BZ:686:THR:HG21	1.48	0.76
2:AC:150:PHE:HB2	2:AC:152:PHE:HE1	1.49	0.76
2:AD:70:LEU:HD12	2:AD:71:LEU:H	1.49	0.76
3:BI:165:CYS:HA	3:BI:248:ASN:O	1.85	0.76
3:BJ:52:ASN:HD22	3:BL:58:PRO:CA	1.98	0.76
3:BN:268:VAL:HG12	3:BN:268:VAL:O	1.85	0.76
4:BX:518:ILE:HD11	4:BX:756:ILE:CD1	2.13	0.76
1:AA:264:PRO:O	1:AA:298:TYR:HD2	1.67	0.76
1:AB:218:GLU:HG3	1:AB:221:VAL:HG23	1.66	0.76
1:AB:440:PHE:HE1	2:AH:68:THR:OG1	1.67	0.76
2:AC:38:ILE:HG22	2:AC:42:ASN:ND2	1.99	0.76
2:AE:262:GLU:CB	4:BY:725:LYS:NZ	2.48	0.76
2:AF:38:ILE:HG22	2:AF:42:ASN:ND2	1.99	0.76
2:AN:57:ARG:HH11	2:AN:94:ASN:HD21	1.31	0.76
3:BA:191:CYS:CB	3:BA:244:CYS:SG	2.64	0.76
3:BG:307:ILE:HD13	3:BG:310:MET:HE3	1.68	0.76
3:BK:160:LEU:HD23	3:BK:258:VAL:HG13	1.65	0.76
3:BO:129:VAL:O	3:BO:131:PRO:HD2	1.86	0.76
4:BX:19:SER:HB2	4:BZ:18:LEU:HD22	1.68	0.76
4:BX:264:GLU:O	4:BY:255:VAL:HG13	1.85	0.76
4:BX:498:LEU:HA	4:BX:501:LEU:HD12	1.67	0.76
4:BZ:1:MET:HA	4:BZ:524:PRO:HA	1.67	0.76
4:BZ:540:ALA:C	4:BZ:544:MET:HB2	2.06	0.76
1:AA:124:ARG:HD2	1:AA:203:GLU:OE1	1.85	0.76
1:AB:743:ASP:HB2	1:AB:790:ARG:NH1	2.01	0.76
2:AC:163:SER:HG	3:BG:61:GLY:C	1.88	0.76
2:AC:163:SER:HG	3:BG:62:SER:HA	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:357:VAL:CG2	4:BY:734:TYR:CA	2.44	0.76
2:AG:310:ASN:CB	3:BJ:180:GLU:OE1	2.33	0.76
2:AL:359:PRO:HA	4:BX:701:ILE:HG12	1.67	0.76
3:BH:293:TRP:CE3	3:BH:297:TYR:CE1	2.74	0.76
3:BN:324:TYR:O	3:BN:325:ARG:C	2.22	0.76
4:BX:483:PRO:C	4:BX:484:ILE:HG13	2.05	0.76
1:AA:503:VAL:CG1	1:AA:506:LEU:HB2	2.16	0.76
2:AL:23:LEU:HD23	2:AL:71:LEU:O	1.85	0.76
2:AL:150:PHE:HB2	2:AL:152:PHE:HE1	1.50	0.76
3:BF:293:TRP:CE3	3:BF:297:TYR:CE1	2.74	0.76
3:BJ:143:LYS:HE2	3:BJ:289:TRP:CZ3	2.21	0.76
3:BJ:293:TRP:CE3	3:BJ:297:TYR:CE1	2.74	0.76
3:BL:289:TRP:O	3:BN:150:LEU:CD2	2.27	0.76
3:BO:290:LYS:CG	3:BQ:150:LEU:HD21	2.15	0.76
4:BX:583:SER:HB3	4:BX:593:ASP:CB	2.14	0.76
4:BY:69:TYR:CD2	4:BY:332:SER:O	2.39	0.76
4:BZ:695:VAL:CG1	4:BZ:696:GLU:N	2.49	0.76
1:AA:654:ILE:CG1	1:AA:655:SER:H	1.97	0.76
1:AB:371:ASN:HD22	1:AB:583:SER:HB3	1.50	0.76
2:AH:64:GLY:O	2:AH:65:LEU:HD23	1.86	0.76
2:AN:258:ASN:OD1	4:BX:582:ARG:CB	2.34	0.76
3:BG:293:TRP:CE3	3:BG:297:TYR:CE1	2.74	0.76
3:BJ:52:ASN:HB3	3:BJ:57:LEU:HD11	1.68	0.76
3:BO:160:LEU:HD23	3:BO:258:VAL:HG13	1.65	0.76
3:BQ:293:TRP:CE3	3:BQ:297:TYR:CE1	2.74	0.76
4:BX:407:ALA:HB1	4:BX:427:ARG:HE	1.51	0.76
4:BZ:272:THR:HG22	4:BZ:305:TYR:CD1	2.19	0.76
2:AH:241:ALA:HB1	3:BK:59:ILE:CG2	2.16	0.76
2:AI:150:PHE:HB2	2:AI:152:PHE:HE1	1.50	0.76
2:AI:164:PHE:H	3:BL:61:GLY:C	1.88	0.76
2:AJ:34:PHE:CD2	2:AJ:66:LEU:CD1	2.69	0.76
3:BF:307:ILE:HD13	3:BF:310:MET:HE3	1.68	0.76
3:BH:285:MET:HE3	3:BH:306:ILE:HG23	1.67	0.76
3:BI:263:VAL:HG12	3:BI:289:TRP:HB2	1.67	0.76
3:BJ:162:GLU:HB3	3:BJ:253:GLY:O	1.86	0.76
3:BO:212:THR:HA	3:BO:215:PHE:CD1	2.21	0.76
3:BO:286:ARG:NH1	3:BQ:268:VAL:CG1	2.48	0.76
3:BP:263:VAL:HG12	3:BP:289:TRP:HB2	1.66	0.76
3:BP:313:ARG:CG	3:BP:316:SER:CB	2.64	0.76
3:BQ:160:LEU:HD23	3:BQ:258:VAL:HG13	1.65	0.76
4:BY:463:GLU:CG	4:BY:464:VAL:N	2.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:677:ASN:HD22	4:BY:711:LEU:CD1	1.99	0.76
1:AA:113:PRO:CG	1:AA:609:ASN:HB3	2.16	0.76
1:AA:128:PRO:CG	1:AA:148:TRP:CZ3	2.66	0.76
1:AA:510:LEU:HD12	1:AA:513:LEU:HD12	1.67	0.76
1:AB:492:VAL:HG11	1:AB:558:MET:CG	2.11	0.76
3:BK:174:TYR:CE1	3:BK:198:LEU:HD12	2.20	0.76
3:BL:174:TYR:CE1	3:BL:198:LEU:HD12	2.20	0.76
3:BM:212:THR:HA	3:BM:215:PHE:CD1	2.21	0.76
3:BO:125:ALA:HB1	3:BO:223:LYS:HD3	1.66	0.76
3:BP:212:THR:HA	3:BP:215:PHE:CD1	2.21	0.76
3:BP:267:ASP:OD1	3:BP:286:ARG:HD2	1.84	0.76
4:BX:37:LEU:HD11	4:BY:40:PHE:CE1	2.19	0.76
4:BY:350:TYR:CZ	4:BY:427:ARG:CZ	2.69	0.76
4:BZ:23:GLN:O	4:BZ:27:SER:CB	2.34	0.76
2:AI:38:ILE:HG22	2:AI:42:ASN:ND2	1.99	0.75
2:AI:246:THR:HG23	3:BL:67:TYR:CE2	2.19	0.75
3:BF:210:THR:HG21	4:BZ:379:ILE:HG13	1.66	0.75
3:BI:199:ASN:HB3	3:BI:205:ILE:HD11	1.65	0.75
3:BJ:174:TYR:CE1	3:BJ:198:LEU:HD12	2.20	0.75
3:BL:293:TRP:CE3	3:BL:297:TYR:CE1	2.74	0.75
4:BX:13:SER:O	4:BX:16:VAL:HG22	1.86	0.75
4:BZ:715:SER:HB3	4:BZ:716:PRO:HD2	1.67	0.75
1:AB:400:ASN:CG	1:AB:403:SER:HB2	2.05	0.75
3:BA:212:THR:HA	3:BA:215:PHE:CD1	2.21	0.75
3:BI:293:TRP:CE3	3:BI:297:TYR:CE1	2.74	0.75
3:BM:293:TRP:CE3	3:BM:297:TYR:CE1	2.74	0.75
3:BO:76:PHE:CZ	3:BO:109:LYS:O	2.39	0.75
1:AA:371:ASN:C	1:AA:373:GLN:N	2.39	0.75
1:AA:619:ASN:OD1	1:AA:675:GLU:CG	2.34	0.75
3:BJ:191:CYS:CB	3:BJ:244:CYS:HG	1.98	0.75
3:BN:172:LEU:O	4:BX:489:THR:HB	1.85	0.75
3:BN:175:TYR:OH	3:BN:237:LEU:HB3	1.87	0.75
3:BN:293:TRP:CE3	3:BN:297:TYR:CE1	2.74	0.75
3:BO:290:LYS:CB	3:BQ:150:LEU:HD21	2.16	0.75
4:BY:45:TYR:HE2	4:BY:474:VAL:CG2	1.98	0.75
1:AA:396:PHE:HB3	1:AA:578:LEU:HD12	1.66	0.75
2:AE:255:ARG:NE	3:BG:65:THR:CG2	2.49	0.75
2:AI:76:ASN:CB	2:AM:76:ASN:HB2	2.17	0.75
2:AI:166:LEU:O	3:BJ:52:ASN:OD1	2.04	0.75
3:BH:129:VAL:CG1	3:BH:130:ASP:N	2.49	0.75
3:BK:293:TRP:CE3	3:BK:297:TYR:CE1	2.74	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:212:THR:HA	3:BN:215:PHE:CD1	2.21	0.75
3:BP:293:TRP:CE3	3:BP:297:TYR:CE1	2.74	0.75
4:BY:544:MET:SD	4:BY:653:PRO:HB3	2.26	0.75
1:AB:305:GLN:CG	1:AB:489:LEU:HD13	2.15	0.75
1:AB:440:PHE:CZ	2:AH:68:THR:HB	2.20	0.75
1:AB:493:LEU:HD11	1:AB:567:HIS:HB2	1.68	0.75
2:AK:306:ALA:HB2	3:BL:282:GLU:OE2	1.86	0.75
2:AM:310:ASN:CB	3:BQ:180:GLU:OE1	2.34	0.75
3:BI:212:THR:HA	3:BI:215:PHE:CD1	2.21	0.75
3:BI:286:ARG:HG2	3:BK:270:ASP:OD2	1.86	0.75
3:BK:73:GLU:O	3:BK:73:GLU:HG2	1.87	0.75
3:BL:165:CYS:H	3:BL:322:PHE:HB2	1.51	0.75
3:BO:142:MET:HE3	3:BO:152:MET:HE2	1.68	0.75
4:BZ:13:SER:O	4:BZ:16:VAL:HG22	1.87	0.75
4:BZ:653:PRO:O	4:BZ:655:THR:N	2.20	0.75
1:AA:420:ILE:HG12	1:AA:423:SER:HB2	1.68	0.75
1:AA:661:GLN:HE21	1:AB:348:LYS:NZ	1.83	0.75
2:AC:351:GLN:HG2	4:BY:732:ASP:CG	2.07	0.75
2:AL:38:ILE:HG22	2:AL:42:ASN:ND2	1.99	0.75
3:BA:293:TRP:CE3	3:BA:297:TYR:CE1	2.74	0.75
3:BF:290:LYS:CB	3:BH:150:LEU:HD21	2.16	0.75
3:BG:164:LEU:HD12	3:BG:322:PHE:HB3	1.67	0.75
3:BH:269:LEU:HD23	3:BH:271:ILE:CG2	2.15	0.75
3:BQ:212:THR:HA	3:BQ:215:PHE:CD1	2.21	0.75
4:BY:677:ASN:HD22	4:BY:711:LEU:HD11	1.52	0.75
4:BZ:21:GLU:HA	4:BZ:24:GLU:OE1	1.87	0.75
4:BZ:544:MET:HE3	4:BZ:656:LEU:CD1	2.12	0.75
1:AA:242:PRO:O	1:AA:243:SER:HB3	1.87	0.75
1:AA:268:ASP:O	1:AA:272:ASN:ND2	2.20	0.75
1:AA:312:ASP:O	1:AA:313:ASN:CB	2.35	0.75
1:AA:508:GLU:O	1:AA:512:GLN:HG3	1.86	0.75
1:AB:275:PRO:HB2	1:AB:278:ILE:HG13	1.67	0.75
2:AC:168:ARG:HG3	3:BO:53:TYR:HE1	1.52	0.75
2:AD:38:ILE:HG22	2:AD:42:ASN:HD21	1.52	0.75
3:BJ:212:THR:HA	3:BJ:215:PHE:CD1	2.21	0.75
4:BX:2:ALA:CB	4:BX:635:ASP:HA	2.17	0.75
4:BZ:369:ARG:HG2	4:BZ:536:SER:O	1.85	0.75
4:BZ:734:TYR:OH	4:BZ:761:PRO:CB	2.34	0.75
2:AH:63:PHE:CD2	2:AH:84:THR:HG23	2.21	0.75
2:AJ:38:ILE:HG22	2:AJ:42:ASN:HD21	1.52	0.75
3:BH:126:SER:CA	3:BH:223:LYS:HZ1	1.95	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:212:THR:HA	3:BH:215:PHE:CD1	2.21	0.75
3:BH:310:MET:CG	3:BH:311:SER:H	1.94	0.75
3:BI:191:CYS:CB	3:BI:244:CYS:HG	1.99	0.75
3:BI:310:MET:HG3	3:BI:311:SER:N	2.01	0.75
3:BJ:73:GLU:HG2	3:BJ:73:GLU:O	1.87	0.75
3:BJ:271:ILE:HD11	3:BJ:279:PRO:HG2	1.69	0.75
3:BJ:310:MET:O	3:BJ:311:SER:HB3	1.87	0.75
3:BL:322:PHE:O	3:BL:323:TYR:C	2.25	0.75
3:BO:293:TRP:CE3	3:BO:297:TYR:CE1	2.74	0.75
3:BP:57:LEU:HB2	3:BP:58:PRO:CD	2.15	0.75
4:BX:32:ASN:HB3	4:BY:484:ILE:HG21	0.76	0.75
4:BX:48:VAL:N	4:BX:419:VAL:HG11	2.02	0.75
4:BX:668:ILE:HG13	4:BX:774:CYS:SG	2.25	0.75
4:BY:481:GLN:O	4:BY:481:GLN:HG2	1.87	0.75
1:AB:188:VAL:O	1:AB:198:LYS:HA	1.87	0.75
2:AC:163:SER:OG	3:BG:61:GLY:O	2.05	0.75
2:AD:70:LEU:HD12	2:AD:71:LEU:N	2.02	0.75
2:AD:150:PHE:HB2	2:AD:152:PHE:CE1	2.22	0.75
3:BF:212:THR:HA	3:BF:215:PHE:CD1	2.21	0.75
3:BG:69:ASN:CB	4:BY:507:ALA:CB	2.64	0.75
3:BJ:258:VAL:HG22	3:BJ:259:ALA:N	2.02	0.75
3:BL:144:TYR:HD2	3:BL:145:ASP:N	1.84	0.75
4:BZ:677:ASN:HD22	4:BZ:711:LEU:HD11	1.49	0.75
3:BG:125:ALA:HB3	3:BG:223:LYS:HD3	1.64	0.74
3:BH:269:LEU:CD2	3:BH:271:ILE:HG22	2.17	0.74
3:BK:258:VAL:HG22	3:BK:259:ALA:N	2.02	0.74
4:BX:262:TRP:HB2	4:BY:262:TRP:HE1	1.48	0.74
4:BX:677:ASN:HD22	4:BX:711:LEU:CD1	2.00	0.74
4:BY:307:ARG:HH12	4:BY:312:VAL:HG11	1.52	0.74
2:AG:255:ARG:NE	3:BK:65:THR:OG1	2.19	0.74
2:AH:242:ASP:HA	4:BZ:603:SER:HB3	1.68	0.74
2:AK:57:ARG:HH11	2:AK:94:ASN:HD21	1.31	0.74
2:AM:150:PHE:HB2	2:AM:152:PHE:CE1	2.22	0.74
3:BF:73:GLU:O	3:BF:73:GLU:HG2	1.85	0.74
3:BI:174:TYR:CE1	3:BI:198:LEU:HD12	2.20	0.74
4:BY:525:LEU:HD12	4:BY:529:SER:HB3	1.69	0.74
4:BZ:525:LEU:HD12	4:BZ:529:SER:HB3	1.69	0.74
1:AA:503:VAL:C	1:AA:505:GLN:H	1.87	0.74
1:AA:603:TYR:O	1:AA:606:VAL:HG23	1.87	0.74
1:AB:405:ILE:HG22	1:AB:536:LEU:CD1	2.16	0.74
2:AE:164:PHE:H	3:BF:61:GLY:C	1.90	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:142:GLN:OE1	2:AL:145:ARG:NH1	2.20	0.74
3:BA:191:CYS:CA	3:BA:244:CYS:HG	1.85	0.74
3:BF:149:GLN:O	3:BF:152:MET:HB2	1.87	0.74
3:BG:212:THR:HA	3:BG:215:PHE:CD1	2.21	0.74
3:BH:135:CYS:SG	3:BH:137:TYR:O	2.46	0.74
3:BH:237:LEU:HD21	3:BH:246:ILE:HD13	1.70	0.74
3:BL:144:TYR:HD2	3:BL:144:TYR:C	1.91	0.74
3:BL:159:ILE:HB	3:BL:258:VAL:HG21	1.69	0.74
3:BL:212:THR:HA	3:BL:215:PHE:CD1	2.21	0.74
3:BM:174:TYR:CE1	3:BM:198:LEU:HD12	2.20	0.74
4:BY:350:TYR:CD1	4:BY:427:ARG:HG2	2.23	0.74
4:BY:717:VAL:HG12	4:BY:718:ILE:N	2.02	0.74
1:AA:246:HIS:HD2	1:AA:248:ILE:HB	1.53	0.74
1:AA:852:SER:O	1:AA:853:ASP:HB3	1.87	0.74
2:AE:255:ARG:HD3	3:BG:65:THR:CG2	2.10	0.74
2:AM:38:ILE:HG22	2:AM:42:ASN:HD21	1.52	0.74
3:BG:133:LEU:HD12	3:BG:255:ARG:HH21	1.50	0.74
3:BK:124:ILE:HD13	3:BK:152:MET:CG	2.17	0.74
3:BM:135:CYS:SG	3:BM:137:TYR:O	2.45	0.74
3:BN:159:ILE:HG21	3:BN:258:VAL:CG2	2.17	0.74
3:BP:293:TRP:HE3	3:BP:297:TYR:CE1	2.06	0.74
3:BQ:293:TRP:HE3	3:BQ:297:TYR:CE1	2.06	0.74
4:BX:371:LEU:HD12	4:BY:415:PHE:CD2	2.23	0.74
1:AA:803:ASN:ND2	1:AA:806:SER:HB2	2.02	0.74
1:AB:551:ALA:O	1:AB:555:GLU:HB2	1.88	0.74
2:AC:103:GLU:OE1	2:AC:361:PHE:CD1	2.40	0.74
2:AF:150:PHE:HB2	2:AF:152:PHE:HE1	1.50	0.74
3:BA:258:VAL:HG22	3:BA:259:ALA:N	2.02	0.74
3:BG:258:VAL:HG22	3:BG:259:ALA:N	2.03	0.74
3:BI:124:ILE:HD13	3:BI:152:MET:CG	2.17	0.74
3:BI:237:LEU:HD21	3:BI:246:ILE:HD13	1.70	0.74
3:BI:293:TRP:HE3	3:BI:297:TYR:CE1	2.06	0.74
3:BK:68:ALA:HB1	4:BZ:600:ASP:O	1.88	0.74
3:BK:125:ALA:O	3:BK:129:VAL:HG23	1.87	0.74
3:BK:212:THR:HA	3:BK:215:PHE:CD1	2.21	0.74
3:BM:258:VAL:HG22	3:BM:259:ALA:N	2.02	0.74
3:BM:293:TRP:HE3	3:BM:297:TYR:CE1	2.06	0.74
3:BN:135:CYS:SG	3:BN:137:TYR:O	2.46	0.74
3:BO:293:TRP:HE3	3:BO:297:TYR:CE1	2.06	0.74
4:BX:66:ASP:HB2	4:BX:286:GLY:CA	2.18	0.74
4:BX:573:SER:OG	4:BY:643:THR:HG23	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:49:ASN:HB3	4:BY:421:LEU:HA	1.69	0.74
1:AA:263:GLU:O	1:AA:297:ARG:HA	1.86	0.74
1:AA:400:ASN:OD1	1:AA:403:SER:HB2	1.87	0.74
1:AA:701:GLN:HB3	1:AA:826:TYR:HD2	1.51	0.74
1:AB:360:ILE:O	1:AB:361:GLN:HB2	1.86	0.74
1:AB:783:PHE:HD1	1:AB:783:PHE:H	1.36	0.74
2:AH:63:PHE:CE2	2:AH:84:THR:HG23	2.23	0.74
2:AJ:150:PHE:HB2	2:AJ:152:PHE:CE1	2.22	0.74
2:AN:38:ILE:HG22	2:AN:42:ASN:HD21	1.52	0.74
3:BI:80:THR:OG1	3:BI:135:CYS:HB2	1.87	0.74
3:BL:128:SER:CB	3:BL:155:LEU:HD13	2.18	0.74
3:BP:135:CYS:SG	3:BP:137:TYR:O	2.45	0.74
3:BP:258:VAL:HG22	3:BP:259:ALA:N	2.02	0.74
4:BX:564:LEU:HD21	4:BX:591:TRP:CZ2	2.23	0.74
4:BZ:410:THR:CG2	4:BZ:411:LEU:H	1.81	0.74
4:BZ:695:VAL:HG13	4:BZ:696:GLU:H	1.50	0.74
2:AE:38:ILE:HG22	2:AE:42:ASN:HD21	1.52	0.74
3:BF:135:CYS:SG	3:BF:137:TYR:O	2.46	0.74
3:BN:144:TYR:HD2	3:BN:144:TYR:C	1.91	0.74
3:BP:237:LEU:HD21	3:BP:246:ILE:HD13	1.70	0.74
3:BQ:166:ASN:O	3:BQ:247:ARG:CG	2.35	0.74
4:BZ:416:THR:HG22	4:BZ:417:ASP:H	1.52	0.74
1:AA:160:TYR:HE1	1:AA:633:LEU:HA	1.53	0.74
1:AB:490:ASN:O	1:AB:492:VAL:HG23	1.88	0.74
1:AB:855:LEU:O	1:AB:858:VAL:HG23	1.87	0.74
2:AE:150:PHE:HB2	2:AE:152:PHE:CE1	2.23	0.74
2:AG:150:PHE:HB2	2:AG:152:PHE:CE1	2.22	0.74
2:AI:171:PRO:HG2	3:BL:313:ARG:HG3	1.69	0.74
3:BF:173:TYR:OH	4:BZ:467:ARG:HD3	1.88	0.74
3:BH:258:VAL:HG22	3:BH:259:ALA:N	2.02	0.74
3:BH:307:ILE:HA	3:BH:310:MET:CE	2.18	0.74
3:BP:130:ASP:N	3:BP:131:PRO:HD2	2.03	0.74
3:BP:307:ILE:HA	3:BP:310:MET:CE	2.18	0.74
3:BQ:258:VAL:HG22	3:BQ:259:ALA:N	2.02	0.74
4:BY:564:LEU:HD21	4:BY:591:TRP:CZ2	2.23	0.74
4:BZ:581:ILE:HG23	4:BZ:597:GLN:HB3	1.69	0.74
4:BZ:668:ILE:HG22	4:BZ:670:ASN:O	1.87	0.74
1:AA:401:TYR:O	1:AA:404:LEU:HB2	1.88	0.74
1:AB:126:PHE:CD2	1:AB:126:PHE:N	2.52	0.74
2:AH:150:PHE:HB2	2:AH:152:PHE:CE1	2.23	0.74
2:AI:313:PRO:HD2	3:BL:279:PRO:CB	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:150:PHE:HB2	2:AK:152:PHE:CE1	2.23	0.74
3:BA:293:TRP:HE3	3:BA:297:TYR:CE1	2.06	0.74
3:BG:144:TYR:C	3:BG:144:TYR:CD2	2.60	0.74
3:BG:322:PHE:HZ	3:BO:325:ARG:HD2	1.51	0.74
3:BI:277:THR:CG2	3:BI:279:PRO:HD3	2.18	0.74
3:BJ:293:TRP:HE3	3:BJ:297:TYR:CE1	2.06	0.74
3:BJ:315:ARG:NH1	3:BJ:324:TYR:CZ	2.56	0.74
3:BK:237:LEU:HD21	3:BK:246:ILE:HD13	1.70	0.74
3:BO:125:ALA:HB2	3:BO:223:LYS:HD3	1.69	0.74
3:BO:135:CYS:SG	3:BO:137:TYR:O	2.46	0.74
3:BP:126:SER:CA	3:BP:223:LYS:HZ1	1.92	0.74
4:BX:45:TYR:CZ	4:BX:262:TRP:CZ3	2.76	0.74
4:BX:333:LEU:HG	4:BX:334:PRO:HD2	1.67	0.74
1:AB:434:THR:O	1:AB:434:THR:HG22	1.86	0.74
3:BG:68:ALA:HA	4:BY:510:GLN:CD	2.08	0.74
3:BG:129:VAL:HA	3:BG:187:MET:SD	2.27	0.74
3:BH:144:TYR:C	3:BH:144:TYR:CD2	2.58	0.74
3:BI:258:VAL:HG22	3:BI:259:ALA:N	2.02	0.74
3:BL:144:TYR:C	3:BL:144:TYR:CD2	2.60	0.74
3:BL:199:ASN:CB	3:BL:205:ILE:HD11	2.18	0.74
4:BY:10:LEU:HD21	4:BY:552:PHE:HD2	1.52	0.74
1:AA:265:LEU:HB3	1:AA:296:ALA:CB	2.17	0.73
1:AA:473:HIS:CE1	2:AG:24:TYR:CD2	2.75	0.73
1:AB:451:ASP:N	1:AB:452:PRO:CD	2.38	0.73
2:AO:38:ILE:HG22	2:AO:42:ASN:HD21	1.52	0.73
3:BA:118:PHE:C	3:BA:119:LYS:HD3	2.09	0.73
3:BG:307:ILE:HA	3:BG:310:MET:CE	2.18	0.73
3:BJ:237:LEU:HD21	3:BJ:246:ILE:HD13	1.70	0.73
3:BK:293:TRP:HE3	3:BK:297:TYR:CE1	2.06	0.73
3:BL:144:TYR:HE2	3:BL:146:ALA:CB	2.01	0.73
3:BQ:144:TYR:HE2	3:BQ:146:ALA:CB	2.01	0.73
4:BY:463:GLU:CG	4:BY:464:VAL:H	2.02	0.73
1:AA:116:VAL:HG12	1:AA:117:LYS:N	2.03	0.73
1:AA:180:TYR:HA	1:AA:260:GLN:HB2	1.70	0.73
1:AA:473:HIS:CD2	2:AG:71:LEU:HD12	2.21	0.73
2:AM:313:PRO:CD	3:BQ:279:PRO:HB3	2.10	0.73
2:AN:150:PHE:HB2	2:AN:152:PHE:CE1	2.23	0.73
2:AO:88:PHE:O	2:AO:92:VAL:HG23	1.88	0.73
3:BG:135:CYS:SG	3:BG:137:TYR:O	2.46	0.73
3:BH:69:ASN:ND2	5:C:1:NAG:O5	2.19	0.73
3:BH:293:TRP:HE3	3:BH:297:TYR:CE1	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:126:SER:O	3:BI:129:VAL:HG23	1.88	0.73
3:BO:76:PHE:HE2	3:BO:111:TRP:NE1	1.85	0.73
4:BY:77:PRO:HG3	4:BY:287:LEU:CD2	2.18	0.73
4:BY:583:SER:O	4:BY:585:GLY:N	2.21	0.73
4:BY:668:ILE:HG22	4:BY:670:ASN:O	1.88	0.73
2:AE:269:ILE:HD11	4:BY:725:LYS:HE2	0.81	0.73
2:AH:38:ILE:HG22	2:AH:42:ASN:HD21	1.52	0.73
3:BA:135:CYS:SG	3:BA:137:TYR:O	2.46	0.73
3:BA:277:THR:CG2	3:BA:279:PRO:HD3	2.18	0.73
3:BF:150:LEU:CD2	3:BG:290:LYS:HG2	2.19	0.73
3:BG:312:LYS:O	3:BG:313:ARG:CB	2.28	0.73
3:BI:132:GLN:CB	3:BI:319:SER:CB	2.66	0.73
3:BJ:277:THR:CG2	3:BJ:279:PRO:HD3	2.18	0.73
3:BJ:307:ILE:HA	3:BJ:310:MET:CE	2.18	0.73
3:BJ:307:ILE:HA	3:BJ:310:MET:HE3	1.70	0.73
3:BO:258:VAL:HG22	3:BO:259:ALA:N	2.02	0.73
3:BQ:135:CYS:SG	3:BQ:137:TYR:O	2.45	0.73
4:BY:585:GLY:HA3	4:BY:709:ALA:HB1	1.71	0.73
4:BY:661:THR:HG22	4:BY:662:GLU:N	2.03	0.73
4:BZ:268:ASN:ND2	4:BZ:467:ARG:HH21	1.87	0.73
4:BZ:583:SER:HB3	4:BZ:593:ASP:CB	2.18	0.73
1:AB:401:TYR:O	1:AB:404:LEU:HB2	1.88	0.73
2:AH:241:ALA:CB	3:BK:59:ILE:CG2	2.64	0.73
3:BA:237:LEU:HD21	3:BA:246:ILE:HD13	1.70	0.73
3:BK:277:THR:CG2	3:BK:279:PRO:HD3	2.18	0.73
3:BO:83:LEU:HD23	3:BO:139:VAL:HG13	1.71	0.73
4:BX:717:VAL:HG12	4:BX:718:ILE:N	2.00	0.73
4:BZ:681:VAL:HB	4:BZ:693:TYR:CD1	2.23	0.73
1:AB:389:GLN:NE2	1:AB:493:LEU:HD12	2.01	0.73
2:AD:76:ASN:HB2	2:AL:76:ASN:HB2	1.71	0.73
2:AK:38:ILE:HG22	2:AK:42:ASN:HD21	1.52	0.73
3:BF:124:ILE:HD13	3:BF:152:MET:CG	2.17	0.73
3:BG:144:TYR:C	3:BG:144:TYR:HD2	1.91	0.73
3:BG:237:LEU:HD21	3:BG:246:ILE:HD13	1.70	0.73
3:BH:63:MET:CG	3:BH:65:THR:CG2	2.58	0.73
3:BI:144:TYR:C	3:BI:144:TYR:CD2	2.58	0.73
3:BJ:135:CYS:SG	3:BJ:137:TYR:O	2.45	0.73
3:BJ:257:ASN:ND2	3:BJ:313:ARG:NE	2.36	0.73
3:BK:135:CYS:SG	3:BK:137:TYR:O	2.45	0.73
3:BL:270:ASP:C	3:BL:272:THR:H	1.90	0.73
3:BM:158:LEU:HD21	3:BM:185:ILE:HD13	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:144:TYR:C	3:BN:144:TYR:CD2	2.62	0.73
3:BN:315:ARG:CG	3:BN:316:SER:N	2.24	0.73
3:BO:144:TYR:HE2	3:BO:146:ALA:CB	2.02	0.73
4:BX:264:GLU:OE2	4:BY:43:THR:HG21	1.87	0.73
1:AA:200:VAL:O	1:AA:201:ASP:HB3	1.89	0.73
1:AA:415:PRO:O	1:AA:417:ASP:N	2.21	0.73
1:AB:170:TYR:CE1	1:AB:681:ILE:HG23	2.23	0.73
1:AB:419:PHE:CD2	1:AB:424:LEU:CD2	2.69	0.73
1:AB:718:TYR:HB3	1:AB:721:VAL:CG2	2.17	0.73
2:AI:171:PRO:CG	3:BJ:322:PHE:CE2	2.68	0.73
3:BI:135:CYS:SG	3:BI:137:TYR:O	2.46	0.73
3:BI:199:ASN:CB	3:BI:205:ILE:HD11	2.18	0.73
3:BK:158:LEU:HD21	3:BK:185:ILE:HD13	1.71	0.73
3:BK:261:ILE:HD11	3:BK:287:ILE:HG13	1.70	0.73
3:BL:124:ILE:HD13	3:BL:152:MET:CG	2.17	0.73
3:BM:277:THR:CG2	3:BM:279:PRO:HD3	2.18	0.73
3:BN:159:ILE:HG22	3:BN:258:VAL:CB	2.17	0.73
3:BQ:277:THR:CG2	3:BQ:279:PRO:HD3	2.18	0.73
4:BX:33:VAL:HA	4:BY:36:ASN:CB	2.18	0.73
4:BX:734:TYR:HE1	4:BX:762:ILE:CD1	2.02	0.73
4:BY:272:THR:O	4:BY:303:TYR:HE1	1.70	0.73
4:BZ:731:ASN:HA	4:BZ:736:ILE:CD1	2.18	0.73
1:AA:643:GLU:CG	1:AA:662:MET:CE	2.60	0.73
1:AB:393:SER:HB3	1:AB:573:THR:HG21	1.70	0.73
3:BF:158:LEU:HD21	3:BF:185:ILE:HD13	1.71	0.73
3:BF:288:ASN:CG	3:BH:150:LEU:HD12	2.08	0.73
3:BG:158:LEU:HD21	3:BG:185:ILE:HD13	1.71	0.73
3:BG:229:VAL:HG12	3:BG:235:HIS:HE1	1.52	0.73
3:BG:277:THR:CG2	3:BG:279:PRO:HD3	2.18	0.73
3:BG:293:TRP:HE3	3:BG:297:TYR:CE1	2.06	0.73
3:BJ:307:ILE:HD13	3:BJ:310:MET:HE3	1.69	0.73
3:BK:257:ASN:ND2	3:BK:313:ARG:HG2	2.04	0.73
3:BN:161:ASN:O	3:BN:255:ARG:HG2	1.88	0.73
3:BN:237:LEU:HD21	3:BN:246:ILE:HD13	1.70	0.73
3:BO:277:THR:CG2	3:BO:279:PRO:HD3	2.18	0.73
3:BP:277:THR:CG2	3:BP:279:PRO:HD3	2.18	0.73
3:BQ:144:TYR:HD2	3:BQ:145:ASP:N	1.85	0.73
4:BX:545:ALA:O	4:BX:549:MET:HG2	1.88	0.73
4:BX:715:SER:HB3	4:BX:716:PRO:HD2	1.70	0.73
4:BY:619:LEU:HD21	4:BY:712:VAL:CG1	2.18	0.73
4:BZ:269:ARG:HH21	4:BZ:359:SER:CB	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:298:TYR:CD1	1:AA:299:ILE:O	2.42	0.73
1:AB:254:GLU:HG3	2:AN:69:THR:OG1	1.89	0.73
1:AB:845:ASN:CB	1:AB:848:PHE:HZ	2.00	0.73
3:BF:68:ALA:O	3:BF:69:ASN:O	2.05	0.73
3:BH:307:ILE:HD13	3:BH:310:MET:HE3	1.70	0.73
3:BJ:53:TYR:HB3	3:BL:55:ILE:CD1	2.19	0.73
3:BJ:53:TYR:CB	3:BL:55:ILE:HG12	2.17	0.73
3:BJ:252:LEU:O	3:BJ:253:GLY:C	2.27	0.73
3:BK:168:MET:CE	3:BK:175:TYR:CE1	2.72	0.73
3:BM:307:ILE:HD13	3:BM:310:MET:HE3	1.71	0.73
3:BN:159:ILE:CG2	3:BN:258:VAL:HG21	2.18	0.73
4:BY:318:CYS:HA	4:BY:353:VAL:HG12	1.71	0.73
4:BY:488:VAL:CG1	4:BY:489:THR:H	2.01	0.73
4:BY:680:GLU:HA	4:BY:693:TYR:O	1.87	0.73
4:BZ:564:LEU:HD21	4:BZ:591:TRP:CZ2	2.23	0.73
1:AA:588:ILE:HG22	1:AA:589:GLY:N	2.02	0.73
1:AB:481:ARG:CZ	2:AI:65:LEU:HD13	2.18	0.73
1:AB:722:ASN:O	1:AB:824:LYS:HB2	1.88	0.73
2:AD:310:ASN:CB	3:BH:180:GLU:OE2	2.37	0.73
3:BA:158:LEU:HD21	3:BA:185:ILE:HD13	1.71	0.73
3:BF:144:TYR:HE2	3:BF:146:ALA:CB	2.01	0.73
3:BL:83:LEU:HD23	3:BL:139:VAL:HG13	1.71	0.73
3:BL:135:CYS:SG	3:BL:137:TYR:O	2.45	0.73
3:BM:130:ASP:N	3:BM:131:PRO:HD3	2.04	0.73
3:BN:57:LEU:HG	3:BN:58:PRO:CD	2.19	0.73
3:BO:55:ILE:HD13	3:BO:323:TYR:N	2.03	0.73
3:BO:158:LEU:HD21	3:BO:185:ILE:HD13	1.71	0.73
3:BP:83:LEU:HD23	3:BP:139:VAL:HG13	1.71	0.73
3:BQ:83:LEU:HD23	3:BQ:139:VAL:HG13	1.71	0.73
4:BY:40:PHE:CE2	4:BY:259:THR:HG21	2.24	0.73
4:BY:256:VAL:HG12	4:BY:257:SER:N	2.04	0.73
4:BZ:717:VAL:HG12	4:BZ:718:ILE:N	2.02	0.73
1:AA:199:VAL:CG1	1:AA:200:VAL:H	2.01	0.73
1:AA:308:LEU:CD2	1:AA:668:ARG:HB3	2.19	0.73
1:AB:381:THR:HG22	1:AB:576:LEU:HD21	1.71	0.73
1:AB:482:GLN:O	1:AB:483:VAL:CG2	2.37	0.73
2:AF:306:ALA:CB	3:BJ:282:GLU:OE2	2.37	0.73
3:BA:307:ILE:HA	3:BA:310:MET:CE	2.18	0.73
3:BF:172:LEU:HD22	4:BZ:466:GLY:C	2.09	0.73
3:BF:293:TRP:HE3	3:BF:297:TYR:CE1	2.06	0.73
3:BJ:158:LEU:HD21	3:BJ:185:ILE:HD13	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:307:ILE:HA	3:BM:310:MET:CE	2.18	0.73
3:BN:277:THR:CG2	3:BN:279:PRO:HD3	2.18	0.73
3:BP:307:ILE:HD13	3:BP:310:MET:HE3	1.70	0.73
3:BQ:307:ILE:HA	3:BQ:310:MET:CE	2.18	0.73
4:BX:259:THR:CG2	4:BY:262:TRP:O	2.33	0.73
4:BX:407:ALA:CB	4:BX:427:ARG:HE	2.01	0.73
4:BX:731:ASN:HA	4:BX:736:ILE:CD1	2.18	0.73
4:BY:25:ILE:HA	4:BY:28:THR:HB	1.69	0.73
4:BY:716:PRO:HD2	4:BZ:750:ARG:HH21	1.51	0.73
1:AA:817:TRP:CH2	1:AA:819:PRO:HA	2.23	0.72
2:AH:35:ASN:HB3	2:AH:65:LEU:CD1	2.19	0.72
2:AJ:38:ILE:HD12	2:AJ:65:LEU:HD23	1.70	0.72
2:AN:164:PHE:O	3:BO:61:GLY:N	2.21	0.72
3:BA:229:VAL:HG12	3:BA:235:HIS:HE1	1.52	0.72
3:BA:307:ILE:HD13	3:BA:310:MET:HE3	1.69	0.72
3:BF:307:ILE:HA	3:BF:310:MET:CE	2.18	0.72
3:BG:310:MET:O	3:BG:311:SER:HB2	1.89	0.72
3:BI:83:LEU:HD23	3:BI:139:VAL:HG13	1.71	0.72
3:BL:293:TRP:HE3	3:BL:297:TYR:CE1	2.06	0.72
4:BZ:264:GLU:CB	4:BZ:473:LEU:C	2.50	0.72
1:AA:195:ASP:CG	1:AA:196:ALA:N	2.43	0.72
1:AA:297:ARG:HG3	1:AA:848:PHE:CD2	2.24	0.72
1:AB:457:GLN:CB	1:AB:476:ASN:ND2	2.45	0.72
1:AB:493:LEU:CD1	1:AB:567:HIS:HB2	2.19	0.72
1:AB:722:ASN:ND2	1:AB:824:LYS:HA	2.03	0.72
3:BG:56:ASN:O	3:BG:57:LEU:HB2	1.89	0.72
3:BI:144:TYR:HE2	3:BI:146:ALA:CB	2.01	0.72
3:BI:323:TYR:C	3:BI:323:TYR:CD2	2.63	0.72
1:AA:473:HIS:CE1	2:AG:24:TYR:HD2	2.06	0.72
1:AA:548:ARG:NH1	1:AA:878:ASN:H	1.87	0.72
1:AB:246:HIS:CD2	1:AB:248:ILE:H	2.08	0.72
1:AB:508:GLU:OE2	2:AJ:71:LEU:HD23	1.89	0.72
1:AB:518:PHE:HB2	1:AB:519:PRO:HD2	1.71	0.72
1:AB:615:ASN:O	1:AB:618:ILE:HB	1.89	0.72
2:AM:38:ILE:HD12	2:AM:65:LEU:HD23	1.70	0.72
3:BF:172:LEU:HD22	4:BZ:466:GLY:CA	2.18	0.72
3:BH:125:ALA:HB3	3:BH:223:LYS:HD3	1.64	0.72
3:BH:144:TYR:HE2	3:BH:146:ALA:CB	2.02	0.72
3:BH:229:VAL:HG12	3:BH:235:HIS:HE1	1.52	0.72
3:BM:125:ALA:HB3	3:BM:223:LYS:HD3	1.64	0.72
3:BN:158:LEU:HD21	3:BN:185:ILE:HD13	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:174:TYR:CE2	3:BN:236:LYS:CB	2.68	0.72
3:BP:144:TYR:HE2	3:BP:146:ALA:CB	2.01	0.72
4:BX:72:THR:CB	4:BX:333:LEU:CD1	2.67	0.72
4:BX:525:LEU:HD12	4:BX:529:SER:HB3	1.72	0.72
4:BY:41:ALA:HB1	4:BY:43:THR:OG1	1.89	0.72
4:BZ:525:LEU:HD12	4:BZ:529:SER:CB	2.20	0.72
1:AA:462:GLN:HG3	1:AA:463:ILE:CG2	2.19	0.72
1:AB:308:LEU:HB3	1:AB:310:LEU:HD21	1.72	0.72
1:AB:464:GLN:CB	2:AH:66:LEU:HD23	2.15	0.72
2:AC:88:PHE:O	2:AC:92:VAL:HG23	1.89	0.72
2:AJ:164:PHE:N	3:BM:61:GLY:O	2.20	0.72
2:AK:145:ARG:CG	2:AL:143:ASN:O	2.36	0.72
3:BG:65:THR:O	3:BG:65:THR:HG22	1.88	0.72
3:BH:277:THR:CG2	3:BH:279:PRO:HD3	2.18	0.72
3:BK:56:ASN:O	3:BK:57:LEU:CD2	2.38	0.72
3:BK:83:LEU:HD23	3:BK:139:VAL:HG13	1.71	0.72
3:BL:158:LEU:HD21	3:BL:185:ILE:HD13	1.71	0.72
3:BL:237:LEU:HD21	3:BL:246:ILE:HD13	1.70	0.72
3:BL:277:THR:CG2	3:BL:279:PRO:HD3	2.18	0.72
3:BM:270:ASP:HB2	3:BN:288:ASN:HD21	1.55	0.72
3:BO:142:MET:HE3	3:BO:152:MET:CE	2.19	0.72
3:BO:237:LEU:HD21	3:BO:246:ILE:HD13	1.70	0.72
3:BQ:125:ALA:CB	3:BQ:223:LYS:CD	2.53	0.72
3:BQ:237:LEU:HD21	3:BQ:246:ILE:HD13	1.70	0.72
4:BX:649:THR:HB	4:BX:650:GLN:HE21	1.53	0.72
1:AA:428:GLN:OE1	1:AA:456:PHE:N	2.23	0.72
1:AB:374:ALA:HB1	1:AB:580:SER:HA	1.69	0.72
1:AB:442:MET:HG2	1:AB:443:GLN:H	1.54	0.72
2:AE:269:ILE:CG1	4:BY:725:LYS:NZ	2.51	0.72
2:AN:202:PRO:CB	4:BX:577:ARG:CG	2.65	0.72
3:BA:129:VAL:O	3:BA:131:PRO:CD	2.36	0.72
3:BJ:83:LEU:HD23	3:BJ:139:VAL:HG13	1.71	0.72
3:BM:156:ALA:CB	3:BM:269:LEU:HD21	2.20	0.72
3:BM:237:LEU:HD21	3:BM:246:ILE:HD13	1.70	0.72
3:BN:125:ALA:HB3	3:BN:223:LYS:HD3	1.64	0.72
4:BY:51:GLY:N	4:BY:421:LEU:CG	2.47	0.72
4:BY:485:THR:CG2	4:BY:485:THR:C	2.58	0.72
4:BZ:371:LEU:O	4:BZ:409:VAL:HG21	1.90	0.72
4:BZ:753:ARG:HH11	4:BZ:753:ARG:HG3	1.55	0.72
1:AA:629:ASN:O	1:AA:631:LEU:N	2.20	0.72
1:AB:540:LEU:O	1:AB:540:LEU:HG	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:307:ILE:HA	3:BA:310:MET:HE3	1.71	0.72
3:BF:288:ASN:ND2	3:BH:150:LEU:CD1	2.51	0.72
3:BG:316:SER:HB3	3:BO:325:ARG:N	2.05	0.72
3:BL:268:VAL:O	3:BL:269:LEU:HD23	1.89	0.72
3:BM:252:LEU:O	3:BM:253:GLY:C	2.25	0.72
3:BN:137:TYR:CE1	3:BN:312:LYS:HB3	2.24	0.72
3:BN:175:TYR:CE1	3:BN:237:LEU:HB2	2.25	0.72
3:BO:124:ILE:HD13	3:BO:152:MET:CG	2.17	0.72
3:BO:286:ARG:HH12	3:BQ:268:VAL:HG12	1.53	0.72
3:BP:158:LEU:HD21	3:BP:185:ILE:HD13	1.71	0.72
4:BX:677:ASN:HD22	4:BX:711:LEU:HD11	1.53	0.72
4:BY:514:MET:CB	4:BY:756:ILE:HD11	2.17	0.72
1:AA:428:GLN:CB	1:AA:456:PHE:CE1	2.72	0.72
1:AA:769:SER:HB3	1:AA:807:ASN:OD1	1.89	0.72
1:AB:126:PHE:N	1:AB:126:PHE:HD2	1.88	0.72
1:AB:482:GLN:HG3	1:AB:493:LEU:HD21	1.66	0.72
2:AI:239:ASN:HD21	3:BL:65:THR:HA	1.55	0.72
3:BG:321:ALA:O	3:BG:322:PHE:C	2.27	0.72
3:BH:124:ILE:HD13	3:BH:152:MET:CG	2.17	0.72
3:BM:168:MET:CE	3:BM:175:TYR:CE1	2.72	0.72
3:BN:144:TYR:HE2	3:BN:146:ALA:CB	2.02	0.72
4:BX:257:SER:OG	4:BX:257:SER:CA	2.37	0.72
4:BX:701:ILE:HD13	4:BX:702:PRO:CD	2.18	0.72
4:BX:753:ARG:HH11	4:BX:753:ARG:HG3	1.55	0.72
4:BY:617:ARG:HE	4:BY:620:ARG:NH2	1.88	0.72
4:BY:736:ILE:O	4:BY:736:ILE:HG22	1.90	0.72
1:AA:248:ILE:O	1:AA:251:ALA:HB3	1.89	0.72
1:AA:571:LEU:HD11	1:AB:531:ARG:HH12	1.49	0.72
1:AA:711:GLN:C	1:AA:712:LEU:HD23	2.10	0.72
1:AA:855:LEU:O	1:AA:857:PHE:N	2.22	0.72
2:AI:313:PRO:HD2	3:BL:279:PRO:HB3	1.71	0.72
2:AK:255:ARG:CD	3:BL:65:THR:OG1	2.38	0.72
3:BI:82:CYS:SG	3:BI:117:TYR:CD1	2.82	0.72
3:BJ:252:LEU:HG	3:BJ:253:GLY:N	2.04	0.72
3:BM:268:VAL:HG21	3:BN:266:SER:CB	2.18	0.72
3:BN:293:TRP:HE3	3:BN:297:TYR:CE1	2.06	0.72
3:BP:252:LEU:HG	3:BP:253:GLY:H	1.53	0.72
4:BX:473:LEU:HD22	4:BY:262:TRP:CH2	2.24	0.72
4:BZ:734:TYR:CE2	4:BZ:761:PRO:CG	2.73	0.72
1:AA:126:PHE:HE2	1:AA:150:LEU:HD13	1.50	0.72
1:AA:242:PRO:O	1:AA:243:SER:CB	2.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:332:VAL:HG11	1:AA:557:LEU:CD2	2.20	0.72
1:AA:428:GLN:HG2	1:AA:429:LEU:H	1.54	0.72
1:AA:428:GLN:CD	1:AA:455:PRO:HB2	2.09	0.72
1:AB:717:MET:HE3	1:AB:718:TYR:HE1	1.53	0.72
2:AD:88:PHE:O	2:AD:92:VAL:HG23	1.89	0.72
2:AF:88:PHE:O	2:AF:92:VAL:HG23	1.89	0.72
3:BG:69:ASN:HB2	4:BY:507:ALA:CB	2.20	0.72
3:BG:191:CYS:CB	3:BG:244:CYS:HG	2.00	0.72
3:BJ:124:ILE:HD13	3:BJ:152:MET:CG	2.17	0.72
3:BJ:144:TYR:HE2	3:BJ:146:ALA:CB	2.02	0.72
3:BN:69:ASN:ND2	5:E:1:NAG:O5	2.19	0.72
3:BP:124:ILE:HD13	3:BP:152:MET:CG	2.17	0.72
3:BQ:252:LEU:O	3:BQ:253:GLY:O	2.07	0.72
4:BX:350:TYR:OH	4:BX:427:ARG:NH1	2.22	0.72
1:AA:320:THR:HG21	1:AA:651:ILE:HG22	1.69	0.72
1:AB:626:THR:HG21	1:AB:630:ARG:HH21	1.55	0.72
2:AI:88:PHE:O	2:AI:92:VAL:HG23	1.89	0.72
2:AL:88:PHE:O	2:AL:92:VAL:HG23	1.89	0.72
2:AM:88:PHE:O	2:AM:92:VAL:HG23	1.90	0.72
2:AN:202:PRO:CB	4:BX:577:ARG:HD3	2.19	0.72
2:AN:299:ASN:CG	3:BP:71:THR:HB	2.09	0.72
3:BK:125:ALA:HB3	3:BK:223:LYS:HD3	1.64	0.72
4:BY:506:ASN:OD1	4:BY:775:ARG:HG3	1.89	0.72
4:BZ:694:ARG:HH22	4:BZ:701:ILE:HG21	1.53	0.72
1:AA:153:ASP:O	1:AA:154:THR:C	2.28	0.71
1:AA:265:LEU:HB3	1:AA:296:ALA:HB1	1.70	0.71
1:AA:647:LYS:CG	1:AA:654:ILE:HG21	2.19	0.71
1:AB:392:MET:HE2	1:AB:576:LEU:HD11	1.72	0.71
1:AB:440:PHE:HD1	1:AB:518:PHE:CZ	2.07	0.71
1:AB:596:SER:HB2	1:AB:599:THR:OG1	1.90	0.71
2:AI:164:PHE:N	3:BL:61:GLY:O	2.21	0.71
2:AI:171:PRO:HG2	3:BJ:322:PHE:HE2	1.53	0.71
2:AJ:88:PHE:O	2:AJ:92:VAL:HG23	1.90	0.71
3:BH:83:LEU:HD23	3:BH:139:VAL:HG13	1.71	0.71
3:BI:144:TYR:HD2	3:BI:145:ASP:N	1.88	0.71
3:BI:229:VAL:HG12	3:BI:235:HIS:HE1	1.52	0.71
3:BL:159:ILE:HD12	3:BL:258:VAL:HG11	1.56	0.71
3:BL:290:LYS:HE3	3:BN:150:LEU:HD21	1.71	0.71
3:BN:191:CYS:HG	3:BN:244:CYS:CB	2.02	0.71
4:BY:474:VAL:HG12	4:BY:476:SER:N	2.05	0.71
4:BZ:545:ALA:O	4:BZ:549:MET:HG2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:701:ILE:HG12	4:BZ:702:PRO:HD2	1.70	0.71
1:AB:199:VAL:HG12	1:AB:200:VAL:N	2.04	0.71
1:AB:701:GLN:HB2	1:AB:826:TYR:HD2	1.55	0.71
2:AC:357:VAL:HG22	4:BY:733:ASN:O	1.90	0.71
2:AD:38:ILE:HD12	2:AD:65:LEU:HD23	1.70	0.71
3:BF:277:THR:CG2	3:BF:279:PRO:HD3	2.18	0.71
3:BF:290:LYS:HB3	3:BH:150:LEU:CD2	2.20	0.71
3:BH:158:LEU:HD21	3:BH:185:ILE:HD13	1.71	0.71
3:BM:83:LEU:HD23	3:BM:139:VAL:HG13	1.71	0.71
4:BX:620:ARG:HB3	4:BX:673:TYR:CE1	2.24	0.71
4:BY:584:VAL:HG23	4:BY:596:THR:CG2	2.20	0.71
1:AA:199:VAL:HG11	1:AA:204:THR:CG2	2.20	0.71
1:AA:199:VAL:HG11	1:AA:204:THR:HG21	1.71	0.71
1:AA:568:VAL:HG12	1:AA:569:GLN:N	2.01	0.71
1:AB:875:ARG:HD3	1:AB:878:ASN:ND2	2.05	0.71
2:AE:203:ALA:CA	4:BY:775:ARG:HH22	2.01	0.71
2:AI:171:PRO:CG	3:BL:313:ARG:HG2	2.16	0.71
2:AN:310:ASN:CB	3:BO:180:GLU:OE1	2.39	0.71
3:BF:229:VAL:HG12	3:BF:235:HIS:HE1	1.52	0.71
3:BI:82:CYS:SG	3:BI:117:TYR:HD1	2.13	0.71
3:BI:268:VAL:CG1	3:BI:269:LEU:H	2.02	0.71
3:BO:128:SER:OG	3:BO:224:LEU:CD2	2.35	0.71
4:BX:33:VAL:CA	4:BY:36:ASN:HB3	2.20	0.71
4:BY:724:PHE:CE2	4:BY:728:LYS:HB2	2.24	0.71
4:BZ:710:ASP:O	4:BZ:712:VAL:N	2.23	0.71
1:AA:353:LEU:HD13	1:AA:362:SER:CB	2.20	0.71
1:AB:415:PRO:CG	1:AB:480:PHE:HD1	2.03	0.71
1:AB:548:ARG:NH1	1:AB:878:ASN:N	2.38	0.71
1:AB:717:MET:HE1	1:AB:830:PRO:HG2	1.71	0.71
2:AO:6:SER:OG	2:AO:128:ASN:HA	1.91	0.71
3:BG:124:ILE:HD13	3:BG:152:MET:CG	2.17	0.71
3:BK:144:TYR:HE2	3:BK:146:ALA:CB	2.02	0.71
3:BL:73:GLU:HG2	3:BL:73:GLU:O	1.90	0.71
3:BM:252:LEU:HG	3:BM:253:GLY:N	2.04	0.71
3:BN:57:LEU:CG	3:BN:58:PRO:HD2	2.21	0.71
3:BP:144:TYR:C	3:BP:144:TYR:CD2	2.60	0.71
3:BP:229:VAL:HG12	3:BP:235:HIS:HE1	1.52	0.71
3:BP:246:ILE:HG23	3:BP:246:ILE:O	1.91	0.71
4:BX:45:TYR:CZ	4:BX:262:TRP:CH2	2.78	0.71
4:BX:66:ASP:CB	4:BX:286:GLY:N	2.54	0.71
4:BX:361:ALA:O	4:BX:364:ASN:HB2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:581:ILE:O	4:BX:582:ARG:HB3	1.90	0.71
4:BX:692:ALA:HB3	4:BX:701:ILE:O	1.89	0.71
4:BY:2:ALA:HB2	4:BY:635:ASP:HA	1.72	0.71
4:BY:350:TYR:CD1	4:BY:427:ARG:CG	2.73	0.71
4:BY:626:THR:HG22	4:BY:627:GLN:N	2.04	0.71
4:BY:633:PHE:CD1	4:BY:719:SER:HB2	2.25	0.71
4:BZ:411:LEU:CD2	4:BZ:424:LEU:HD22	2.19	0.71
1:AA:145:ARG:HB3	1:AA:147:TYR:HE1	1.55	0.71
1:AA:529:ILE:HG23	1:AA:530:GLN:N	2.05	0.71
1:AB:603:TYR:O	1:AB:606:VAL:HG23	1.90	0.71
3:BF:262:GLN:CB	3:BF:267:ASP:OD2	2.39	0.71
3:BH:63:MET:O	3:BH:65:THR:HG23	1.89	0.71
3:BL:246:ILE:O	3:BL:246:ILE:HG23	1.91	0.71
3:BP:268:VAL:HG12	3:BQ:286:ARG:HH12	1.53	0.71
4:BZ:552:PHE:O	4:BZ:554:LYS:N	2.24	0.71
1:AA:462:GLN:HG3	1:AA:463:ILE:N	2.04	0.71
1:AB:381:THR:CG2	1:AB:576:LEU:CD2	2.54	0.71
1:AB:804:SER:HA	1:AB:810:TYR:CE1	2.19	0.71
2:AC:220:THR:O	2:AC:220:THR:CG2	2.39	0.71
2:AI:220:THR:O	2:AI:220:THR:CG2	2.39	0.71
2:AI:354:ALA:HB1	4:BX:731:ASN:OD1	1.91	0.71
2:AI:357:VAL:CG2	4:BX:733:ASN:O	2.36	0.71
3:BG:313:ARG:CD	3:BO:322:PHE:HD1	2.03	0.71
3:BK:263:VAL:HG11	3:BK:289:TRP:HD1	1.55	0.71
3:BL:268:VAL:HG12	3:BL:269:LEU:H	1.30	0.71
3:BN:174:TYR:HD2	3:BN:198:LEU:CD1	1.83	0.71
3:BQ:246:ILE:O	3:BQ:246:ILE:HG23	1.91	0.71
4:BY:321:ASN:HB3	4:BY:352:TYR:CE1	2.25	0.71
4:BY:597:GLN:HG3	4:BY:598:ILE:N	2.04	0.71
4:BY:626:THR:HG23	4:BZ:524:PRO:CD	2.21	0.71
1:AA:449:ASN:ND2	1:AA:455:PRO:HG3	2.05	0.71
1:AA:451:ASP:CB	1:AA:452:PRO:HD2	2.07	0.71
1:AA:654:ILE:O	1:AA:657:VAL:HG23	1.90	0.71
2:AL:165:THR:HG23	3:BP:58:PRO:HB2	1.72	0.71
2:AL:359:PRO:HA	4:BX:701:ILE:CD1	2.21	0.71
2:AM:241:ALA:CB	3:BQ:59:ILE:CG2	2.43	0.71
3:BA:162:GLU:HB3	3:BA:253:GLY:O	1.91	0.71
3:BA:271:ILE:O	3:BA:271:ILE:CG2	2.38	0.71
3:BG:317:LEU:HD21	3:BO:325:ARG:O	1.90	0.71
3:BH:246:ILE:HG23	3:BH:246:ILE:O	1.91	0.71
3:BI:76:PHE:CZ	3:BI:304:ASN:OD1	2.44	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:161:ASN:O	3:BN:255:ARG:CG	2.39	0.71
3:BO:125:ALA:HB1	3:BO:223:LYS:CD	2.21	0.71
3:BO:142:MET:CE	3:BO:152:MET:HE2	2.21	0.71
4:BX:494:LEU:HA	4:BX:497:GLN:OE1	1.90	0.71
4:BZ:410:THR:CG2	4:BZ:411:LEU:N	2.52	0.71
4:BZ:416:THR:HG22	4:BZ:417:ASP:N	2.05	0.71
1:AA:503:VAL:CG1	1:AA:506:LEU:CB	2.68	0.71
1:AB:503:VAL:O	1:AB:505:GLN:N	2.23	0.71
1:AB:523:VAL:C	1:AB:525:TYR:H	1.93	0.71
2:AD:302:PRO:C	3:BF:282:GLU:CD	2.49	0.71
3:BF:237:LEU:HD21	3:BF:246:ILE:HD13	1.70	0.71
3:BK:68:ALA:HA	4:BZ:600:ASP:HA	1.72	0.71
3:BQ:162:GLU:OE1	3:BQ:253:GLY:HA3	1.90	0.71
4:BX:480:TYR:O	4:BX:483:PRO:CD	2.39	0.71
4:BY:1:MET:HA	4:BY:524:PRO:HA	1.73	0.71
4:BY:710:ASP:O	4:BY:712:VAL:N	2.22	0.71
4:BZ:585:GLY:HA3	4:BZ:709:ALA:HB1	1.73	0.71
4:BZ:724:PHE:CE2	4:BZ:728:LYS:HB2	2.26	0.71
1:AB:433:ASN:ND2	1:AB:446:HIS:HD2	1.89	0.71
2:AI:76:ASN:HB2	2:AM:76:ASN:HB2	1.73	0.71
2:AI:306:ALA:HB2	3:BM:282:GLU:OE2	1.90	0.71
2:AN:306:ALA:CB	3:BP:282:GLU:OE2	2.38	0.71
3:BF:76:PHE:CZ	3:BF:304:ASN:OD1	2.44	0.71
3:BH:176:GLN:CG	3:BH:176:GLN:O	2.38	0.71
3:BI:164:LEU:CD1	3:BI:322:PHE:CE2	2.74	0.71
3:BL:268:VAL:HG13	3:BL:269:LEU:H	1.51	0.71
3:BM:76:PHE:CZ	3:BM:304:ASN:OD1	2.44	0.71
3:BN:83:LEU:HD23	3:BN:139:VAL:HG13	1.71	0.71
3:BO:153:SER:OG	3:BO:269:LEU:HD12	1.91	0.71
3:BO:315:ARG:HH12	3:BO:323:TYR:HE2	1.34	0.71
3:BP:60:THR:HG22	3:BP:61:GLY:N	2.03	0.71
3:BP:266:SER:HA	3:BP:286:ARG:NH2	2.06	0.71
4:BX:353:VAL:O	4:BX:425:ARG:HA	1.91	0.71
4:BX:626:THR:HG22	4:BX:627:GLN:N	2.05	0.71
4:BY:4:LEU:HD12	4:BY:524:PRO:HB3	1.73	0.71
4:BY:7:ARG:HD2	4:BY:625:ALA:HA	1.72	0.71
4:BZ:419:VAL:HG12	4:BZ:420:SER:N	2.04	0.71
4:BZ:544:MET:O	4:BZ:548:VAL:HG23	1.90	0.71
4:BZ:617:ARG:HA	4:BZ:620:ARG:NE	2.05	0.71
1:AA:473:HIS:HE1	2:AG:24:TYR:HD2	1.36	0.71
1:AB:526:LYS:O	1:AB:530:GLN:HG2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:364:GLY:HA2	4:BY:733:ASN:CB	2.17	0.71
2:AG:202:PRO:HG3	4:BZ:577:ARG:CZ	2.20	0.71
3:BA:83:LEU:HD23	3:BA:139:VAL:HG13	1.71	0.71
3:BF:159:ILE:CD1	3:BF:260:VAL:HG22	2.18	0.71
3:BG:313:ARG:HD3	3:BO:322:PHE:CD1	2.23	0.71
3:BN:246:ILE:HG23	3:BN:246:ILE:O	1.91	0.71
3:BN:257:ASN:ND2	3:BN:315:ARG:CD	2.54	0.71
4:BX:350:TYR:CZ	4:BX:427:ARG:NH1	2.59	0.71
4:BX:661:THR:HG22	4:BX:662:GLU:N	2.04	0.71
4:BY:776:LEU:HG	4:BY:776:LEU:O	1.90	0.71
1:AA:551:ALA:O	1:AA:555:GLU:HB2	1.90	0.70
1:AA:852:SER:O	1:AA:853:ASP:CB	2.38	0.70
1:AB:436:ILE:HG13	1:AB:437:TYR:H	1.54	0.70
1:AB:481:ARG:HH11	1:AB:481:ARG:HG3	1.54	0.70
2:AD:163:SER:HB2	3:BH:62:SER:HA	1.73	0.70
2:AI:76:ASN:HB2	2:AM:76:ASN:CB	2.20	0.70
2:AK:88:PHE:O	2:AK:92:VAL:HG23	1.91	0.70
3:BF:125:ALA:CB	3:BF:223:LYS:CD	2.53	0.70
3:BG:178:THR:H	3:BG:182:ASN:HD22	1.38	0.70
3:BI:246:ILE:O	3:BI:246:ILE:HG23	1.91	0.70
3:BJ:246:ILE:HG23	3:BJ:246:ILE:O	1.91	0.70
3:BK:141:LEU:CD1	3:BK:261:ILE:CG2	2.66	0.70
3:BL:128:SER:HA	3:BL:155:LEU:CD1	2.21	0.70
4:BZ:661:THR:HG22	4:BZ:662:GLU:N	2.06	0.70
1:AA:594:ILE:HG23	1:AA:595:PRO:HD2	1.73	0.70
1:AB:845:ASN:HB3	1:AB:848:PHE:CE1	2.26	0.70
2:AC:364:GLY:N	4:BY:733:ASN:CB	2.41	0.70
2:AG:88:PHE:O	2:AG:92:VAL:HG23	1.89	0.70
3:BA:76:PHE:CZ	3:BA:304:ASN:OD1	2.44	0.70
3:BA:272:THR:HG21	3:BA:277:THR:HG22	1.73	0.70
3:BF:83:LEU:HD23	3:BF:139:VAL:HG13	1.71	0.70
3:BG:83:LEU:HD23	3:BG:139:VAL:HG13	1.71	0.70
3:BI:289:TRP:HH2	3:BI:292:TRP:CD1	2.08	0.70
3:BN:232:GLY:HA3	4:BX:496:ARG:HD3	1.73	0.70
4:BX:581:ILE:HG23	4:BX:597:GLN:HB3	1.71	0.70
4:BX:626:THR:HG23	4:BY:524:PRO:CD	2.20	0.70
4:BY:552:PHE:O	4:BY:554:LYS:N	2.23	0.70
1:AA:521:MET:HB3	1:AA:522:PRO:CD	2.20	0.70
1:AB:371:ASN:HB3	1:AB:583:SER:HB2	1.72	0.70
2:AH:88:PHE:O	2:AH:92:VAL:HG23	1.91	0.70
3:BF:269:LEU:HA	3:BG:286:ARG:NH2	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:320:ALA:O	3:BI:322:PHE:N	2.24	0.70
3:BK:76:PHE:CZ	3:BK:304:ASN:OD1	2.44	0.70
3:BN:167:PRO:HA	3:BN:247:ARG:CD	2.21	0.70
3:BQ:266:SER:HA	3:BQ:286:ARG:NH2	2.06	0.70
3:BQ:307:ILE:HD13	3:BQ:310:MET:HE3	1.72	0.70
4:BX:34:THR:HB	4:BY:484:ILE:CD1	2.19	0.70
4:BX:47:PRO:HB2	4:BX:420:SER:OG	1.91	0.70
4:BX:668:ILE:HG22	4:BX:670:ASN:O	1.90	0.70
4:BX:710:ASP:O	4:BX:712:VAL:N	2.23	0.70
4:BY:50:TRP:O	4:BY:356:TRP:HB3	1.92	0.70
4:BZ:1:MET:CE	4:BZ:1:MET:H1	2.04	0.70
4:BZ:626:THR:HG22	4:BZ:627:GLN:N	2.05	0.70
1:AA:183:LEU:HD12	1:AA:844:SER:OG	1.92	0.70
1:AB:457:GLN:HB2	1:AB:476:ASN:CG	2.12	0.70
1:AB:626:THR:HG21	1:AB:630:ARG:NH2	2.06	0.70
1:AB:745:ALA:HB1	1:AB:748:THR:CB	2.20	0.70
2:AJ:238:ILE:HG23	3:BM:63:MET:HE3	1.74	0.70
2:AJ:255:ARG:CD	3:BN:65:THR:OG1	2.40	0.70
3:BH:76:PHE:CZ	3:BH:304:ASN:OD1	2.44	0.70
3:BL:266:SER:HA	3:BL:286:ARG:HH12	1.56	0.70
3:BM:268:VAL:HG21	3:BN:266:SER:C	2.11	0.70
3:BN:76:PHE:CZ	3:BN:304:ASN:OD1	2.44	0.70
4:BX:48:VAL:H	4:BX:419:VAL:HG11	1.57	0.70
4:BX:350:TYR:CD1	4:BX:427:ARG:CD	2.68	0.70
4:BX:575:ILE:HG23	4:BX:576:SER:H	1.57	0.70
4:BY:254:ILE:HG22	4:BY:255:VAL:N	2.07	0.70
1:AA:428:GLN:HG2	1:AA:429:LEU:N	2.07	0.70
1:AA:869:VAL:CG1	1:AA:873:ASN:HA	2.21	0.70
1:AB:97:THR:HA	1:AB:320:THR:HG23	1.72	0.70
2:AC:103:GLU:OE1	2:AC:361:PHE:HD1	1.74	0.70
3:BJ:76:PHE:CZ	3:BJ:304:ASN:OD1	2.44	0.70
3:BJ:169:ASP:HB3	3:BJ:173:TYR:HE1	1.57	0.70
3:BK:263:VAL:HG12	3:BK:289:TRP:CB	2.21	0.70
3:BL:159:ILE:CD1	3:BL:260:VAL:HG22	2.18	0.70
3:BO:246:ILE:HG23	3:BO:246:ILE:O	1.91	0.70
4:BX:21:GLU:HA	4:BX:24:GLU:OE1	1.92	0.70
4:BX:262:TRP:CB	4:BX:473:LEU:CD2	2.70	0.70
4:BY:540:ALA:O	4:BY:544:MET:HG3	1.90	0.70
1:AA:506:LEU:HD23	1:AA:544:VAL:CA	2.16	0.70
1:AB:654:ILE:O	1:AB:657:VAL:HG23	1.92	0.70
2:AH:242:ASP:C	4:BZ:602:SER:OG	2.30	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:124:ILE:HD13	3:BA:152:MET:CG	2.17	0.70
3:BM:64:ASP:O	3:BM:65:THR:CG2	2.40	0.70
3:BN:124:ILE:HD13	3:BN:152:MET:CG	2.17	0.70
4:BX:19:SER:HB3	4:BZ:18:LEU:HD13	1.73	0.70
4:BX:633:PHE:CD1	4:BX:719:SER:HB2	2.25	0.70
4:BX:714:ASP:CG	4:BY:753:ARG:HD3	2.12	0.70
4:BY:737:SER:OG	4:BY:740:GLN:HG3	1.91	0.70
4:BY:762:ILE:O	4:BY:764:ARG:N	2.25	0.70
4:BZ:618:ARG:HH11	4:BZ:618:ARG:HG3	1.57	0.70
1:AB:464:GLN:HA	1:AB:464:GLN:OE1	1.91	0.70
1:AB:845:ASN:CB	1:AB:848:PHE:CZ	2.73	0.70
2:AE:313:PRO:HD2	3:BF:279:PRO:CB	2.22	0.70
2:AG:241:ALA:HB1	3:BJ:59:ILE:HG21	0.77	0.70
2:AH:35:ASN:HB3	2:AH:65:LEU:CG	2.22	0.70
3:BH:159:ILE:HG22	3:BH:258:VAL:HG11	1.74	0.70
3:BK:69:ASN:C	3:BK:69:ASN:OD1	2.30	0.70
3:BL:313:ARG:O	3:BL:314:SER:CB	2.40	0.70
3:BN:123:ASP:OD1	3:BN:126:SER:HB3	1.92	0.70
4:BY:351:VAL:O	4:BY:427:ARG:HA	1.90	0.70
4:BZ:518:ILE:CD1	4:BZ:756:ILE:HD13	2.20	0.70
1:AA:148:TRP:CZ2	1:AA:833:PHE:CD1	2.79	0.70
1:AA:314:PHE:HZ	1:AA:664:ARG:CG	2.05	0.70
1:AA:647:LYS:CE	1:AA:654:ILE:CD1	2.68	0.70
1:AB:306:ASP:O	1:AB:308:LEU:N	2.22	0.70
2:AC:167:ASN:HD22	2:AC:178:GLY:HA2	1.57	0.70
2:AF:313:PRO:HD2	3:BI:279:PRO:CB	2.21	0.70
2:AI:167:ASN:HD22	2:AI:178:GLY:HA2	1.57	0.70
2:AL:359:PRO:HA	4:BX:701:ILE:CG1	2.22	0.70
3:BF:288:ASN:CG	3:BH:150:LEU:HD13	2.12	0.70
3:BH:123:ASP:OD1	3:BH:126:SER:HB3	1.92	0.70
3:BH:176:GLN:O	3:BH:176:GLN:HG3	1.90	0.70
3:BO:229:VAL:HG12	3:BO:235:HIS:HE1	1.52	0.70
3:BP:76:PHE:CZ	3:BP:304:ASN:OD1	2.45	0.70
3:BQ:124:ILE:HD13	3:BQ:152:MET:CG	2.17	0.70
3:BQ:159:ILE:HG22	3:BQ:258:VAL:HG11	1.74	0.70
4:BX:724:PHE:CE2	4:BX:728:LYS:HB2	2.27	0.70
4:BY:485:THR:HG22	4:BY:485:THR:C	2.12	0.70
4:BY:584:VAL:HG23	4:BY:596:THR:HG23	1.73	0.70
4:BZ:272:THR:HG22	4:BZ:305:TYR:CE2	2.26	0.70
4:BZ:321:ASN:HB2	4:BZ:352:TYR:HE1	1.55	0.70
4:BZ:411:LEU:CD2	4:BZ:424:LEU:CD2	2.70	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:633:PHE:CD1	4:BZ:719:SER:HB2	2.26	0.70
4:BZ:701:ILE:HG12	4:BZ:702:PRO:CD	2.21	0.70
1:AA:136:ALA:O	1:AA:137:ASN:CB	2.40	0.70
1:AA:615:ASN:O	1:AA:618:ILE:HB	1.91	0.70
1:AB:457:GLN:HG2	1:AB:476:ASN:OD1	1.91	0.70
1:AB:463:ILE:HD12	1:AB:472:LEU:CD1	2.22	0.70
1:AB:721:VAL:HG12	1:AB:722:ASN:H	1.57	0.70
2:AE:88:PHE:O	2:AE:92:VAL:HG23	1.91	0.70
3:BF:162:GLU:OE2	3:BF:315:ARG:HG3	1.91	0.70
3:BF:246:ILE:O	3:BF:246:ILE:HG23	1.91	0.70
3:BG:123:ASP:OD1	3:BG:126:SER:HB3	1.92	0.70
3:BJ:144:TYR:HD2	3:BJ:144:TYR:C	1.95	0.70
3:BK:141:LEU:CD1	3:BK:261:ILE:HG21	2.21	0.70
3:BK:234:ASN:O	3:BK:235:HIS:HD2	1.75	0.70
3:BK:307:ILE:HA	3:BK:310:MET:CE	2.22	0.70
4:BY:355:TYR:HE2	4:BY:424:LEU:HG	1.57	0.70
4:BY:535:LYS:O	4:BY:537:THR:HG23	1.91	0.70
1:AA:188:VAL:HG12	1:AA:189:GLU:N	2.06	0.70
1:AB:166:PHE:CE2	1:AB:689:MET:HG3	2.27	0.70
1:AB:772:ILE:HG23	1:AB:773:SER:N	2.05	0.70
1:AB:805:ASP:O	1:AB:807:ASN:N	2.25	0.70
2:AE:167:ASN:HD22	2:AE:178:GLY:HA2	1.57	0.70
3:BA:87:THR:HG1	3:BA:122:THR:HG22	1.55	0.70
3:BA:123:ASP:OD1	3:BA:126:SER:HB3	1.92	0.70
3:BA:178:THR:H	3:BA:182:ASN:HD22	1.40	0.70
3:BF:123:ASP:OD1	3:BF:126:SER:HB3	1.92	0.70
3:BI:162:GLU:CB	3:BI:253:GLY:O	2.40	0.70
3:BJ:123:ASP:OD1	3:BJ:126:SER:HB3	1.92	0.70
3:BM:268:VAL:HG21	3:BN:266:SER:HB2	1.72	0.70
3:BN:234:ASN:O	3:BN:235:HIS:HD2	1.75	0.70
3:BO:123:ASP:OD1	3:BO:126:SER:HB3	1.92	0.70
3:BO:266:SER:HA	3:BO:286:ARG:NH2	2.06	0.70
4:BX:41:ALA:HB3	4:BX:259:THR:O	1.91	0.70
4:BY:50:TRP:CA	4:BY:422:ASN:O	2.39	0.70
4:BY:539:ASP:HA	4:BY:542:LYS:CG	2.22	0.70
4:BY:701:ILE:CG1	4:BY:702:PRO:HD2	2.19	0.70
4:BY:732:ASP:C	4:BY:734:TYR:N	2.46	0.70
1:AA:492:VAL:HG13	1:AA:558:MET:SD	2.32	0.69
1:AB:349:MET:HG3	1:AB:353:LEU:HD12	1.73	0.69
2:AD:171:PRO:HB3	3:BH:312:LYS:HD2	1.73	0.69
2:AG:167:ASN:HD22	2:AG:178:GLY:HA2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:202:PRO:CG	4:BZ:577:ARG:CZ	2.70	0.69
2:AH:359:PRO:CB	4:BZ:701:ILE:HG13	2.22	0.69
2:AK:163:SER:CB	3:BN:62:SER:HA	2.22	0.69
2:AL:241:ALA:HB1	3:BP:59:ILE:CG2	2.18	0.69
3:BG:76:PHE:CZ	3:BG:304:ASN:OD1	2.44	0.69
3:BI:108:THR:HG23	3:BI:109:LYS:N	2.07	0.69
3:BI:132:GLN:CB	3:BI:319:SER:HB2	2.21	0.69
3:BK:123:ASP:OD1	3:BK:126:SER:HB3	1.92	0.69
3:BK:267:ASP:O	3:BK:268:VAL:CG2	2.36	0.69
3:BL:125:ALA:HB3	3:BL:223:LYS:HD3	1.65	0.69
3:BO:108:THR:HG23	3:BO:109:LYS:N	2.07	0.69
3:BP:159:ILE:HG22	3:BP:258:VAL:HG11	1.74	0.69
4:BX:776:LEU:O	4:BX:776:LEU:HG	1.92	0.69
4:BY:263:LYS:HG3	4:BY:477:ASN:HB3	1.74	0.69
4:BY:522:LEU:HD11	4:BY:749:PRO:HB3	1.74	0.69
4:BY:540:ALA:C	4:BY:544:MET:HG3	2.12	0.69
4:BY:544:MET:HE3	4:BY:653:PRO:HB2	1.67	0.69
1:AB:481:ARG:CD	1:AB:481:ARG:N	2.51	0.69
3:BA:144:TYR:CE2	3:BA:146:ALA:HB2	2.26	0.69
3:BG:255:ARG:HD2	3:BG:257:ASN:HD22	1.56	0.69
3:BH:63:MET:CG	3:BH:65:THR:HG22	2.20	0.69
3:BJ:59:ILE:HG22	3:BJ:60:THR:O	1.92	0.69
3:BJ:108:THR:HG23	3:BJ:109:LYS:N	2.07	0.69
3:BK:159:ILE:HG22	3:BK:258:VAL:HG11	1.74	0.69
3:BK:246:ILE:HG23	3:BK:246:ILE:O	1.91	0.69
3:BN:259:ALA:HB1	3:BN:285:MET:HE3	1.74	0.69
3:BO:191:CYS:CB	3:BO:244:CYS:HG	2.02	0.69
3:BP:130:ASP:N	3:BP:131:PRO:CD	2.55	0.69
3:BP:322:PHE:C	3:BP:323:TYR:CD1	2.65	0.69
3:BQ:158:LEU:HD21	3:BQ:185:ILE:HD13	1.71	0.69
3:BQ:229:VAL:HG12	3:BQ:235:HIS:HE1	1.52	0.69
4:BY:355:TYR:CD2	4:BY:424:LEU:HB2	2.27	0.69
4:BY:501:LEU:HD13	4:BY:655:THR:HG21	1.72	0.69
4:BY:517:LEU:HD11	4:BY:639:ALA:HB1	1.74	0.69
4:BY:545:ALA:O	4:BY:549:MET:HG2	1.91	0.69
4:BY:668:ILE:HG13	4:BY:774:CYS:SG	2.33	0.69
4:BZ:269:ARG:HH21	4:BZ:359:SER:HB3	1.54	0.69
4:BZ:514:MET:CB	4:BZ:756:ILE:HD11	2.19	0.69
1:AA:674:VAL:HG13	1:AA:678:ARG:CB	2.20	0.69
1:AA:807:ASN:O	1:AA:809:PHE:N	2.25	0.69
1:AB:630:ARG:HD2	2:AL:71:LEU:HD13	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:721:VAL:HG12	1:AB:722:ASN:N	2.08	0.69
2:AD:167:ASN:HD22	2:AD:178:GLY:HA2	1.57	0.69
2:AD:220:THR:O	2:AD:220:THR:CG2	2.39	0.69
2:AK:167:ASN:HD22	2:AK:178:GLY:HA2	1.57	0.69
3:BA:246:ILE:HG23	3:BA:246:ILE:O	1.91	0.69
3:BF:159:ILE:HB	3:BF:258:VAL:HG21	1.73	0.69
3:BG:68:ALA:HA	4:BY:510:GLN:NE2	2.07	0.69
3:BG:246:ILE:HG23	3:BG:246:ILE:O	1.91	0.69
3:BG:313:ARG:CG	3:BO:322:PHE:CD1	2.76	0.69
3:BL:129:VAL:O	3:BL:187:MET:SD	2.50	0.69
3:BM:108:THR:HG23	3:BM:109:LYS:N	2.07	0.69
3:BM:246:ILE:HG23	3:BM:246:ILE:O	1.91	0.69
3:BN:159:ILE:CG2	3:BN:258:VAL:CB	2.70	0.69
4:BY:30:THR:HG22	4:BY:31:GLN:N	2.07	0.69
4:BZ:692:ALA:HB3	4:BZ:701:ILE:O	1.91	0.69
1:AB:791:LYS:O	1:AB:792:VAL:HG13	1.93	0.69
2:AG:219:THR:HG22	2:AG:220:THR:N	2.08	0.69
2:AK:310:ASN:HB2	3:BN:180:GLU:OE2	1.92	0.69
2:AL:167:ASN:HD22	2:AL:178:GLY:HA2	1.57	0.69
3:BA:267:ASP:O	3:BA:268:VAL:CG2	2.39	0.69
3:BG:159:ILE:HG22	3:BG:258:VAL:HG11	1.74	0.69
3:BM:123:ASP:OD1	3:BM:126:SER:HB3	1.92	0.69
3:BM:128:SER:OG	3:BM:224:LEU:HD22	1.92	0.69
3:BN:257:ASN:OD1	3:BN:315:ARG:HB2	1.91	0.69
3:BO:55:ILE:HG22	3:BO:321:ALA:HB3	1.74	0.69
3:BO:285:MET:HA	3:BO:285:MET:CE	2.22	0.69
3:BP:234:ASN:O	3:BP:235:HIS:HD2	1.76	0.69
4:BX:332:SER:OG	4:BY:70:GLN:CG	2.39	0.69
4:BX:522:LEU:HD11	4:BX:749:PRO:HB3	1.74	0.69
4:BX:620:ARG:HA	4:BX:673:TYR:CZ	2.28	0.69
4:BY:419:VAL:CG1	4:BY:420:SER:N	2.55	0.69
4:BZ:470:LEU:CD2	4:BZ:472:SER:OG	2.39	0.69
4:BZ:582:ARG:O	4:BZ:593:ASP:HB2	1.91	0.69
4:BZ:776:LEU:HG	4:BZ:776:LEU:O	1.93	0.69
1:AB:400:ASN:ND2	1:AB:403:SER:HB2	2.07	0.69
1:AB:743:ASP:CG	1:AB:745:ALA:H	1.94	0.69
1:AB:770:SER:HB2	1:AB:773:SER:OG	1.92	0.69
2:AG:34:PHE:CE2	2:AG:66:LEU:HD11	2.28	0.69
2:AG:241:ALA:HB3	3:BJ:59:ILE:CD1	2.21	0.69
2:AH:306:ALA:CB	3:BI:282:GLU:OE2	2.40	0.69
2:AM:167:ASN:HD22	2:AM:178:GLY:HA2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AN:76:ASN:HB2	2:AO:76:ASN:H	1.57	0.69
3:BF:59:ILE:HG22	3:BF:60:THR:O	1.93	0.69
3:BF:158:LEU:HD12	3:BF:224:LEU:CD2	2.23	0.69
3:BG:175:TYR:O	3:BG:234:ASN:HA	1.92	0.69
3:BI:123:ASP:OD1	3:BI:126:SER:HB3	1.92	0.69
3:BL:76:PHE:CZ	3:BL:304:ASN:OD1	2.44	0.69
3:BL:123:ASP:OD1	3:BL:126:SER:HB3	1.92	0.69
3:BL:288:ASN:OD1	3:BN:150:LEU:HD12	1.92	0.69
3:BM:124:ILE:HD13	3:BM:152:MET:CG	2.17	0.69
3:BO:234:ASN:O	3:BO:235:HIS:HD2	1.75	0.69
3:BP:96:ASN:ND2	4:BX:40:PHE:HD2	1.90	0.69
4:BY:321:ASN:CB	4:BY:352:TYR:HE1	2.04	0.69
4:BY:482:THR:HB	4:BY:483:PRO:HD3	1.73	0.69
4:BZ:1:MET:H1	4:BZ:1:MET:HE1	1.58	0.69
1:AB:590:ASN:H	1:AB:590:ASN:ND2	1.90	0.69
2:AC:219:THR:HG22	2:AC:220:THR:N	2.08	0.69
2:AG:164:PHE:H	3:BJ:61:GLY:HA3	1.56	0.69
2:AK:38:ILE:HD12	2:AK:65:LEU:HD23	1.75	0.69
3:BF:69:ASN:HD22	5:B:1:NAG:C1	2.01	0.69
3:BF:174:TYR:CD1	3:BF:198:LEU:CD1	2.69	0.69
3:BN:125:ALA:CB	3:BN:223:LYS:CD	2.53	0.69
4:BY:488:VAL:CG2	4:BZ:448:TYR:CE1	2.75	0.69
4:BY:581:ILE:HA	4:BY:597:GLN:CB	2.21	0.69
1:AB:418:MET:O	1:AB:419:PHE:HD1	1.75	0.69
2:AC:239:ASN:OD1	3:BG:67:TYR:CD2	2.46	0.69
2:AN:167:ASN:HD22	2:AN:178:GLY:HA2	1.57	0.69
3:BI:144:TYR:HE2	3:BI:146:ALA:CA	2.06	0.69
3:BJ:234:ASN:O	3:BJ:235:HIS:HD2	1.75	0.69
3:BJ:322:PHE:CE2	3:BL:313:ARG:HG3	2.27	0.69
3:BN:138:ASN:O	3:BN:258:VAL:HA	1.92	0.69
4:BX:35:ILE:CB	4:BY:37:LEU:CD1	2.70	0.69
4:BY:525:LEU:HD12	4:BY:529:SER:CB	2.22	0.69
4:BZ:721:ILE:HG22	4:BZ:722:ILE:HG23	1.74	0.69
1:AA:125:ILE:CG2	1:AA:150:LEU:HD11	2.23	0.69
1:AA:126:PHE:CD2	1:AA:150:LEU:CD1	2.76	0.69
1:AA:469:ALA:C	2:AG:71:LEU:HD22	2.12	0.69
1:AB:499:ASN:O	1:AB:500:GLY:C	2.31	0.69
1:AB:782:VAL:HG11	1:AB:796:LYS:O	1.93	0.69
1:AB:783:PHE:N	1:AB:783:PHE:CD1	2.60	0.69
2:AC:310:ASN:HB2	3:BG:180:GLU:OE2	1.93	0.69
2:AD:313:PRO:HD2	3:BH:279:PRO:HB3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:22:THR:HG22	2:AG:73:LEU:HD12	1.74	0.69
2:AH:167:ASN:HD22	2:AH:178:GLY:HA2	1.57	0.69
2:AH:219:THR:HG22	2:AH:220:THR:N	2.08	0.69
2:AO:167:ASN:HD22	2:AO:178:GLY:HA2	1.57	0.69
3:BA:148:LEU:O	3:BA:152:MET:HG3	1.93	0.69
3:BA:234:ASN:O	3:BA:235:HIS:HD2	1.75	0.69
3:BF:288:ASN:HD21	3:BH:150:LEU:HD12	1.57	0.69
3:BG:160:LEU:HD23	3:BG:258:VAL:CG1	2.23	0.69
3:BG:234:ASN:O	3:BG:235:HIS:HD2	1.75	0.69
3:BH:108:THR:HG23	3:BH:109:LYS:N	2.07	0.69
3:BH:160:LEU:HD23	3:BH:258:VAL:CG1	2.22	0.69
3:BI:132:GLN:CA	3:BI:319:SER:HB2	2.22	0.69
3:BI:234:ASN:O	3:BI:235:HIS:HD2	1.75	0.69
3:BI:289:TRP:CH2	3:BI:292:TRP:CD1	2.79	0.69
3:BK:158:LEU:HD12	3:BK:224:LEU:CD2	2.23	0.69
3:BL:108:THR:HG23	3:BL:109:LYS:N	2.07	0.69
3:BM:160:LEU:HD23	3:BM:258:VAL:CG1	2.23	0.69
3:BN:173:TYR:HA	4:BX:489:THR:CG2	2.23	0.69
3:BO:76:PHE:CE2	3:BO:111:TRP:NE1	2.61	0.69
3:BO:214:THR:CG2	4:BY:480:TYR:CZ	2.69	0.69
3:BO:310:MET:CG	3:BO:311:SER:N	2.53	0.69
3:BP:125:ALA:CB	3:BP:223:LYS:CD	2.54	0.69
3:BQ:126:SER:HA	3:BQ:223:LYS:HZ2	1.57	0.69
3:BQ:234:ASN:O	3:BQ:235:HIS:HD2	1.75	0.69
4:BX:695:VAL:HG13	4:BX:696:GLU:OE1	1.92	0.69
4:BY:478:ASP:OD1	4:BY:478:ASP:O	2.11	0.69
4:BY:518:ILE:CD1	4:BY:756:ILE:HD13	2.20	0.69
4:BY:624:MET:SD	4:BY:632:ASN:HB3	2.32	0.69
3:BI:293:TRP:CE3	3:BI:297:TYR:HE1	2.11	0.69
3:BL:293:TRP:O	3:BL:297:TYR:HD1	1.76	0.69
3:BO:82:CYS:HG	3:BO:135:CYS:HB3	1.57	0.69
3:BP:57:LEU:CB	3:BP:58:PRO:CD	2.71	0.69
4:BX:537:THR:HB	4:BX:541:ALA:H	1.58	0.69
4:BX:538:ILE:C	4:BX:540:ALA:H	1.93	0.69
4:BX:657:PRO:O	4:BX:659:ILE:HG22	1.93	0.69
4:BY:35:ILE:O	4:BY:35:ILE:HG13	1.91	0.69
4:BY:347:GLU:HG2	4:BY:431:THR:HA	1.74	0.69
4:BY:358:ASP:O	4:BY:359:SER:O	2.10	0.69
4:BZ:681:VAL:HB	4:BZ:693:TYR:CG	2.28	0.69
1:AA:781:THR:O	1:AA:783:PHE:N	2.26	0.69
1:AB:717:MET:HE3	1:AB:718:TYR:CE1	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:54:LEU:HD12	2:AD:55:PRO:HD2	1.75	0.69
2:AJ:54:LEU:HD12	2:AJ:55:PRO:HD2	1.75	0.69
2:AJ:71:LEU:O	2:AJ:72:ASN:ND2	2.25	0.69
2:AK:255:ARG:HD3	3:BL:65:THR:OG1	1.93	0.69
2:AM:219:THR:HG22	2:AM:220:THR:N	2.08	0.69
2:AN:88:PHE:O	2:AN:92:VAL:HG23	1.91	0.69
3:BG:271:ILE:CD1	3:BG:279:PRO:CG	2.33	0.69
3:BH:263:VAL:HG12	3:BH:289:TRP:HB2	1.74	0.69
3:BH:267:ASP:H	3:BH:286:ARG:NH1	1.91	0.69
3:BK:108:THR:HG23	3:BK:109:LYS:N	2.07	0.69
3:BK:160:LEU:HD23	3:BK:258:VAL:CG1	2.23	0.69
3:BM:255:ARG:HD2	3:BM:257:ASN:HD22	1.57	0.69
3:BN:108:THR:HG23	3:BN:109:LYS:N	2.07	0.69
3:BN:159:ILE:CG2	3:BN:258:VAL:HB	2.23	0.69
3:BO:159:ILE:HG22	3:BO:258:VAL:HG11	1.74	0.69
3:BO:160:LEU:HD23	3:BO:258:VAL:CG1	2.22	0.69
3:BO:288:ASN:OD1	3:BQ:150:LEU:HD12	1.92	0.69
3:BO:293:TRP:O	3:BO:297:TYR:HD1	1.76	0.69
3:BP:144:TYR:HE2	3:BP:146:ALA:CA	2.06	0.69
4:BX:585:GLY:HA3	4:BX:709:ALA:HB1	1.74	0.69
4:BX:666:LYS:O	4:BX:667:PHE:HD1	1.76	0.69
4:BY:264:GLU:CA	4:BY:473:LEU:HD23	2.06	0.69
4:BY:483:PRO:HG3	4:BZ:447:LEU:CD2	2.23	0.69
4:BZ:272:THR:CG2	4:BZ:305:TYR:CD2	2.76	0.69
1:AA:757:VAL:HG12	1:AA:758:ALA:N	2.07	0.68
1:AB:491:GLN:O	1:AB:565:MET:HG2	1.93	0.68
2:AH:163:SER:CB	3:BK:62:SER:HA	2.23	0.68
2:AJ:306:ALA:HB2	3:BN:282:GLU:OE2	1.93	0.68
3:BA:159:ILE:HG22	3:BA:258:VAL:HG11	1.74	0.68
3:BF:78:THR:HG22	3:BF:78:THR:O	1.92	0.68
3:BI:293:TRP:O	3:BI:297:TYR:HD1	1.76	0.68
3:BN:257:ASN:HD21	3:BN:315:ARG:HD2	1.58	0.68
3:BQ:160:LEU:HD23	3:BQ:258:VAL:CG1	2.22	0.68
3:BQ:293:TRP:O	3:BQ:297:TYR:HD1	1.76	0.68
1:AA:126:PHE:CD2	1:AA:150:LEU:HD12	2.29	0.68
1:AA:317:LEU:HD22	1:AA:652:PHE:HD2	1.56	0.68
1:AA:486:ASP:HB2	1:AA:490:ASN:HD22	1.57	0.68
1:AA:631:LEU:O	1:AA:633:LEU:HD12	1.93	0.68
1:AB:750:MET:HA	1:AB:750:MET:CE	2.23	0.68
1:AB:791:LYS:C	1:AB:792:VAL:HG13	2.12	0.68
2:AJ:167:ASN:HD22	2:AJ:178:GLY:HA2	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:255:ARG:HD2	3:BA:257:ASN:HD22	1.57	0.68
3:BG:130:ASP:OD1	3:BG:130:ASP:O	2.10	0.68
3:BH:59:ILE:HG22	3:BH:60:THR:O	1.93	0.68
3:BI:159:ILE:HG22	3:BI:258:VAL:HG11	1.74	0.68
3:BJ:129:VAL:O	3:BJ:131:PRO:HD2	1.94	0.68
3:BM:234:ASN:O	3:BM:235:HIS:HD2	1.75	0.68
3:BM:285:MET:HE3	3:BM:306:ILE:HG23	1.74	0.68
3:BP:158:LEU:HD12	3:BP:224:LEU:CD2	2.23	0.68
3:BP:293:TRP:O	3:BP:297:TYR:HD1	1.76	0.68
3:BQ:293:TRP:CE3	3:BQ:297:TYR:HE1	2.11	0.68
4:BX:473:LEU:HD21	4:BY:262:TRP:NE1	2.09	0.68
4:BX:525:LEU:HD12	4:BX:529:SER:CB	2.24	0.68
4:BX:619:LEU:O	4:BX:623:GLU:N	2.26	0.68
4:BZ:734:TYR:HH	4:BZ:761:PRO:HB2	1.55	0.68
1:AA:661:GLN:NE2	1:AB:348:LYS:HZ1	1.91	0.68
2:AC:295:MET:HE1	3:BH:67:TYR:CG	2.28	0.68
2:AD:76:ASN:N	2:AL:76:ASN:HB2	2.07	0.68
2:AI:246:THR:HG22	3:BL:67:TYR:CZ	2.27	0.68
2:AJ:24:TYR:O	2:AJ:27:VAL:HG22	1.94	0.68
3:BH:234:ASN:O	3:BH:235:HIS:HD2	1.75	0.68
3:BL:178:THR:H	3:BL:182:ASN:HD22	1.41	0.68
3:BO:128:SER:CB	3:BO:155:LEU:CD1	2.61	0.68
3:BO:208:LEU:HG	4:BY:480:TYR:CZ	2.28	0.68
3:BP:178:THR:H	3:BP:182:ASN:HD22	1.41	0.68
4:BY:554:LYS:O	4:BY:554:LYS:HG2	1.94	0.68
1:AA:492:VAL:HG13	1:AA:558:MET:CE	2.23	0.68
1:AA:596:SER:HB2	1:AA:599:THR:OG1	1.92	0.68
1:AB:282:VAL:O	1:AB:284:TYR:N	2.26	0.68
2:AL:310:ASN:CB	3:BP:180:GLU:OE1	2.41	0.68
2:AN:219:THR:HG22	2:AN:220:THR:N	2.08	0.68
2:AO:219:THR:HG22	2:AO:220:THR:N	2.08	0.68
3:BA:160:LEU:HD23	3:BA:258:VAL:CG1	2.22	0.68
3:BH:153:SER:CB	3:BH:269:LEU:HD11	2.23	0.68
3:BO:76:PHE:CZ	3:BO:304:ASN:OD1	2.46	0.68
3:BP:96:ASN:ND2	4:BX:39:PRO:CB	2.56	0.68
3:BP:128:SER:CA	3:BP:155:LEU:HD13	2.23	0.68
3:BP:174:TYR:CE1	3:BP:198:LEU:HD13	2.29	0.68
4:BY:77:PRO:CD	4:BY:287:LEU:HG	2.23	0.68
4:BZ:554:LYS:O	4:BZ:554:LYS:HG2	1.94	0.68
1:AA:452:PRO:CG	1:AB:521:MET:O	2.39	0.68
1:AB:393:SER:O	1:AB:394:LEU:HD23	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:466:PHE:HZ	2:AI:122:ILE:HD11	1.57	0.68
1:AB:492:VAL:O	1:AB:493:LEU:C	2.31	0.68
2:AD:164:PHE:H	3:BH:61:GLY:C	1.96	0.68
2:AF:167:ASN:HD22	2:AF:178:GLY:HA2	1.57	0.68
2:AJ:34:PHE:CE2	2:AJ:66:LEU:HD11	2.28	0.68
2:AM:310:ASN:HB3	3:BQ:180:GLU:OE1	1.92	0.68
3:BG:129:VAL:HG22	3:BG:187:MET:HB2	1.74	0.68
3:BI:170:ILE:HD13	3:BI:239:VAL:HG23	1.76	0.68
3:BI:262:GLN:HE22	3:BI:267:ASP:HB2	1.58	0.68
3:BJ:129:VAL:C	3:BJ:131:PRO:CD	2.62	0.68
3:BJ:160:LEU:HD23	3:BJ:258:VAL:CG1	2.22	0.68
3:BJ:178:THR:H	3:BJ:182:ASN:HD22	1.42	0.68
3:BK:293:TRP:CE3	3:BK:297:TYR:HE1	2.11	0.68
3:BM:252:LEU:CG	3:BM:253:GLY:H	2.01	0.68
3:BN:178:THR:H	3:BN:182:ASN:HD22	1.42	0.68
3:BO:69:ASN:ND2	5:F:1:NAG:O5	2.21	0.68
3:BO:178:THR:H	3:BO:182:ASN:HD22	1.41	0.68
3:BO:263:VAL:HG12	3:BO:289:TRP:HB2	1.76	0.68
3:BP:285:MET:HE3	3:BP:306:ILE:HG23	1.76	0.68
3:BQ:108:THR:HG23	3:BQ:109:LYS:N	2.07	0.68
4:BX:442:THR:HG22	4:BX:443:ARG:N	2.08	0.68
4:BX:538:ILE:C	4:BX:540:ALA:N	2.44	0.68
4:BX:550:LYS:O	4:BX:550:LYS:HG2	1.92	0.68
4:BY:13:SER:O	4:BY:16:VAL:HG22	1.93	0.68
1:AA:204:THR:CG2	1:AA:244:ILE:CD1	2.71	0.68
1:AA:246:HIS:O	1:AA:249:ASP:N	2.25	0.68
1:AA:283:ASN:ND2	1:AA:869:VAL:O	2.26	0.68
1:AA:711:GLN:O	1:AA:712:LEU:HD23	1.93	0.68
1:AB:446:HIS:O	1:AB:447:TYR:CB	2.42	0.68
1:AB:811:LEU:HA	1:AB:814:ASN:HD22	1.56	0.68
2:AD:67:GLY:O	2:AD:68:THR:HG23	1.93	0.68
2:AD:219:THR:HG22	2:AD:220:THR:N	2.08	0.68
3:BG:108:THR:HG23	3:BG:109:LYS:N	2.07	0.68
3:BI:160:LEU:HD23	3:BI:258:VAL:CG1	2.22	0.68
3:BJ:174:TYR:CE1	3:BJ:198:LEU:HD13	2.29	0.68
3:BK:191:CYS:CB	3:BK:244:CYS:HG	2.04	0.68
3:BL:174:TYR:CE1	3:BL:198:LEU:HD13	2.29	0.68
3:BL:234:ASN:O	3:BL:235:HIS:HD2	1.75	0.68
3:BP:160:LEU:HD23	3:BP:258:VAL:CG1	2.22	0.68
4:BY:307:ARG:NE	4:BY:312:VAL:HG21	2.06	0.68
4:BY:544:MET:HE3	4:BY:653:PRO:CB	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:755:PHE:HB3	4:BY:763:ILE:HD12	1.76	0.68
4:BZ:24:GLU:HA	4:BZ:27:SER:HB2	1.76	0.68
4:BZ:411:LEU:HD22	4:BZ:424:LEU:CD2	2.24	0.68
1:AA:675:GLU:O	1:AA:677:ARG:N	2.26	0.68
1:AB:368:THR:O	1:AB:369:GLY:O	2.12	0.68
1:AB:683:ASN:HB3	2:AN:32:GLN:NE2	2.09	0.68
2:AK:38:ILE:HG22	2:AK:42:ASN:ND2	2.09	0.68
2:AM:106:ARG:H	2:AM:106:ARG:HD3	1.59	0.68
3:BA:108:THR:HG23	3:BA:109:LYS:N	2.07	0.68
3:BA:263:VAL:HG12	3:BA:289:TRP:HB2	1.76	0.68
3:BF:234:ASN:O	3:BF:235:HIS:HD2	1.75	0.68
3:BI:266:SER:CB	3:BK:268:VAL:O	2.41	0.68
3:BJ:266:SER:HA	3:BJ:286:ARG:NH2	2.08	0.68
3:BK:293:TRP:O	3:BK:297:TYR:HD1	1.77	0.68
3:BN:307:ILE:HD13	3:BN:310:MET:HE3	1.76	0.68
3:BQ:123:ASP:OD1	3:BQ:126:SER:HB3	1.92	0.68
4:BX:45:TYR:CE2	4:BX:262:TRP:HZ3	2.11	0.68
4:BX:518:ILE:CD1	4:BX:756:ILE:HD13	2.20	0.68
4:BX:537:THR:CB	4:BX:540:ALA:HB3	2.24	0.68
4:BZ:544:MET:SD	4:BZ:653:PRO:CA	2.78	0.68
1:AA:200:VAL:O	1:AA:201:ASP:CB	2.40	0.68
1:AA:540:LEU:O	1:AA:540:LEU:HG	1.92	0.68
1:AA:660:ASP:CG	1:AA:661:GLN:N	2.46	0.68
1:AB:440:PHE:HA	1:AB:518:PHE:CD1	2.29	0.68
1:AB:869:VAL:HG13	1:AB:873:ASN:HA	1.74	0.68
2:AH:38:ILE:HG22	2:AH:42:ASN:ND2	2.09	0.68
3:BF:108:THR:HG23	3:BF:109:LYS:N	2.07	0.68
3:BF:144:TYR:HE2	3:BF:146:ALA:CA	2.06	0.68
3:BG:252:LEU:HG	3:BG:253:GLY:H	1.57	0.68
3:BG:272:THR:HG21	3:BG:277:THR:CB	2.24	0.68
3:BJ:268:VAL:HB	3:BK:266:SER:HB2	0.72	0.68
3:BJ:323:TYR:C	3:BJ:324:TYR:CD1	2.67	0.68
3:BO:144:TYR:HE2	3:BO:146:ALA:CA	2.07	0.68
3:BQ:144:TYR:HE2	3:BQ:146:ALA:CA	2.07	0.68
4:BX:755:PHE:HB3	4:BX:763:ILE:HD12	1.76	0.68
4:BZ:584:VAL:HG23	4:BZ:596:THR:CG2	2.23	0.68
4:BZ:620:ARG:O	4:BZ:621:LEU:C	2.31	0.68
4:BZ:755:PHE:HA	4:BZ:759:ASP:OD2	1.94	0.68
1:AA:306:ASP:HB2	1:AA:614:TYR:CE2	2.28	0.68
1:AA:666:ARG:CG	1:AA:667:ASP:N	2.57	0.68
2:AI:219:THR:HG22	2:AI:220:THR:N	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:59:ILE:HG22	3:BA:60:THR:O	1.93	0.68
3:BA:293:TRP:O	3:BA:297:TYR:HD1	1.76	0.68
3:BG:76:PHE:HE2	3:BG:111:TRP:NE1	1.92	0.68
3:BG:293:TRP:O	3:BG:297:TYR:HD1	1.76	0.68
3:BI:174:TYR:CE1	3:BI:198:LEU:HD13	2.29	0.68
3:BL:88:GLU:OE1	3:BL:143:LYS:CE	2.41	0.68
3:BM:69:ASN:ND2	7:BM:401:NAG:O5	2.22	0.68
3:BM:310:MET:CG	3:BM:311:SER:H	1.94	0.68
3:BO:170:ILE:HD13	3:BO:239:VAL:HG23	1.76	0.68
3:BO:293:TRP:CE3	3:BO:297:TYR:HE1	2.11	0.68
3:BP:123:ASP:OD1	3:BP:126:SER:CB	2.41	0.68
3:BP:125:ALA:HB3	3:BP:223:LYS:HD3	1.67	0.68
4:BX:513:ALA:N	4:BZ:575:ILE:HG21	2.09	0.68
4:BZ:550:LYS:HG2	4:BZ:550:LYS:O	1.94	0.68
1:AA:320:THR:HG22	1:AA:651:ILE:HG21	1.74	0.68
1:AB:110:ASP:O	1:AB:112:LYS:N	2.25	0.68
1:AB:214:ASP:OD1	1:AB:216:GLU:HG2	1.94	0.68
2:AC:167:ASN:O	3:BO:52:ASN:N	2.27	0.68
2:AM:24:TYR:O	2:AM:27:VAL:HG22	1.94	0.68
2:AO:147:ARG:HG2	2:AO:148:THR:N	2.09	0.68
3:BH:170:ILE:HD13	3:BH:239:VAL:HG23	1.76	0.68
3:BI:178:THR:H	3:BI:182:ASN:HD22	1.42	0.68
3:BK:170:ILE:HD13	3:BK:239:VAL:HG23	1.76	0.68
3:BM:159:ILE:HG22	3:BM:258:VAL:HG11	1.74	0.68
3:BM:168:MET:HE2	3:BM:175:TYR:CD1	2.29	0.68
3:BN:158:LEU:HD12	3:BN:224:LEU:CD2	2.23	0.68
3:BO:255:ARG:HD2	3:BO:257:ASN:HD22	1.59	0.68
3:BO:290:LYS:HB3	3:BQ:150:LEU:HD21	1.74	0.68
4:BX:45:TYR:OH	4:BX:474:VAL:HA	1.94	0.68
4:BZ:522:LEU:HD11	4:BZ:749:PRO:HB3	1.75	0.68
4:BZ:762:ILE:O	4:BZ:764:ARG:N	2.27	0.68
1:AA:194:ARG:NH1	1:AA:229:ARG:HG2	2.08	0.67
1:AB:521:MET:HB2	1:AB:522:PRO:HD2	1.74	0.67
2:AC:163:SER:CB	3:BG:62:SER:HA	2.23	0.67
3:BF:293:TRP:O	3:BF:297:TYR:HD1	1.76	0.67
3:BG:255:ARG:HD2	3:BG:257:ASN:ND2	2.09	0.67
3:BJ:159:ILE:HG22	3:BJ:258:VAL:HG11	1.74	0.67
3:BK:174:TYR:CE1	3:BK:198:LEU:HD13	2.29	0.67
3:BL:229:VAL:HG12	3:BL:235:HIS:HE1	1.52	0.67
3:BM:158:LEU:HD12	3:BM:224:LEU:CD2	2.23	0.67
3:BM:178:THR:H	3:BM:182:ASN:HD22	1.41	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:293:TRP:CE3	3:BM:297:TYR:HE1	2.11	0.67
3:BN:129:VAL:C	3:BN:131:PRO:HD3	2.15	0.67
3:BP:108:THR:HG23	3:BP:109:LYS:N	2.07	0.67
4:BX:35:ILE:O	4:BX:35:ILE:HG22	1.94	0.67
4:BX:45:TYR:HE2	4:BX:262:TRP:CZ3	2.10	0.67
4:BX:482:THR:N	4:BX:483:PRO:CD	2.57	0.67
4:BY:540:ALA:HB1	4:BY:544:MET:HE3	1.74	0.67
4:BZ:10:LEU:HD21	4:BZ:552:PHE:HD2	1.58	0.67
4:BZ:694:ARG:HH12	4:BZ:701:ILE:HG22	1.58	0.67
1:AA:436:ILE:HG13	1:AA:437:TYR:N	2.08	0.67
1:AA:510:LEU:HB2	1:AA:540:LEU:HD13	1.76	0.67
1:AB:510:LEU:HD11	1:AB:537:SER:CB	2.24	0.67
1:AB:642:VAL:O	1:AB:646:LEU:HG	1.94	0.67
2:AD:238:ILE:HG23	3:BH:63:MET:HE3	1.75	0.67
2:AG:255:ARG:NH1	3:BK:65:THR:OG1	2.27	0.67
2:AJ:171:PRO:CB	3:BM:312:LYS:HD2	2.24	0.67
2:AM:54:LEU:HD12	2:AM:55:PRO:HD2	1.75	0.67
3:BH:162:GLU:HB3	3:BH:253:GLY:O	1.94	0.67
3:BH:293:TRP:O	3:BH:297:TYR:HD1	1.76	0.67
3:BJ:144:TYR:HE2	3:BJ:146:ALA:CA	2.08	0.67
3:BJ:164:LEU:HD21	3:BL:315:ARG:NH2	2.09	0.67
3:BK:168:MET:HE2	3:BK:175:TYR:CD1	2.30	0.67
3:BL:150:LEU:HD12	3:BM:288:ASN:OD1	1.94	0.67
4:BX:501:LEU:HD13	4:BX:655:THR:HG21	1.77	0.67
4:BY:49:ASN:HB3	4:BY:421:LEU:CD1	2.23	0.67
4:BZ:540:ALA:O	4:BZ:544:MET:CB	2.42	0.67
4:BZ:657:PRO:O	4:BZ:659:ILE:HG22	1.94	0.67
1:AA:694:ARG:HD2	1:AA:828:GLN:HG2	1.75	0.67
1:AA:783:PHE:H	1:AA:783:PHE:HD1	1.40	0.67
1:AB:370:ILE:O	1:AB:373:GLN:HB3	1.94	0.67
2:AE:219:THR:HG22	2:AE:220:THR:N	2.08	0.67
2:AL:219:THR:HG22	2:AL:220:THR:N	2.08	0.67
3:BA:170:ILE:HD13	3:BA:239:VAL:HG23	1.76	0.67
3:BF:150:LEU:CD2	3:BG:290:LYS:CG	2.64	0.67
3:BM:87:THR:HG1	3:BM:122:THR:HG22	1.56	0.67
3:BO:214:THR:HG21	4:BY:480:TYR:HE1	1.50	0.67
3:BP:162:GLU:HB3	3:BP:253:GLY:O	1.94	0.67
3:BQ:174:TYR:CE1	3:BQ:198:LEU:HD13	2.29	0.67
3:BQ:187:MET:SD	3:BQ:224:LEU:CD1	2.83	0.67
4:BY:418:PHE:CE2	4:BZ:334:PRO:HD2	2.29	0.67
4:BY:581:ILE:HA	4:BY:597:GLN:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:4:LEU:HD12	4:BZ:524:PRO:HB3	1.75	0.67
4:BZ:443:ARG:O	4:BZ:443:ARG:CD	2.43	0.67
1:AA:178:PRO:HD3	1:AA:256:PHE:CE2	2.27	0.67
1:AA:246:HIS:HB3	1:AA:249:ASP:OD2	1.94	0.67
1:AB:703:VAL:HG12	1:AB:704:ILE:N	2.10	0.67
1:AB:849:THR:HG23	1:AB:851:TYR:HE1	1.59	0.67
3:BA:266:SER:HA	3:BA:286:ARG:NH2	2.09	0.67
3:BG:170:ILE:HD13	3:BG:239:VAL:HG23	1.76	0.67
3:BH:144:TYR:HD2	3:BH:145:ASP:N	1.93	0.67
3:BK:178:THR:H	3:BK:182:ASN:HD22	1.41	0.67
3:BL:159:ILE:HD11	3:BL:260:VAL:HG23	1.73	0.67
3:BM:78:THR:O	3:BM:78:THR:HG22	1.94	0.67
3:BN:293:TRP:CE3	3:BN:297:TYR:HE1	2.11	0.67
3:BP:313:ARG:O	3:BP:315:ARG:N	2.28	0.67
3:BQ:166:ASN:O	3:BQ:247:ARG:CD	2.42	0.67
4:BX:579:ALA:O	4:BX:581:ILE:HG12	1.94	0.67
4:BY:755:PHE:HA	4:BY:759:ASP:OD2	1.94	0.67
4:BZ:305:TYR:CE1	4:BZ:307:ARG:HG3	2.29	0.67
1:AA:153:ASP:O	1:AA:155:LEU:N	2.28	0.67
1:AA:588:ILE:CG2	1:AA:589:GLY:N	2.57	0.67
1:AB:230:GLN:HA	1:AB:242:PRO:HD3	1.75	0.67
1:AB:451:ASP:N	1:AB:452:PRO:HD3	2.08	0.67
1:AB:703:VAL:HG12	1:AB:704:ILE:H	1.59	0.67
2:AF:163:SER:OG	3:BI:61:GLY:O	2.01	0.67
2:AF:219:THR:HG22	2:AF:220:THR:N	2.08	0.67
2:AG:24:TYR:O	2:AG:27:VAL:HG22	1.94	0.67
2:AG:54:LEU:HD12	2:AG:55:PRO:HD2	1.75	0.67
2:AK:219:THR:HG22	2:AK:220:THR:N	2.08	0.67
3:BA:126:SER:CA	3:BA:223:LYS:NZ	2.55	0.67
3:BA:158:LEU:HD12	3:BA:224:LEU:CD2	2.23	0.67
3:BG:116:VAL:HG12	3:BG:117:TYR:H	1.53	0.67
3:BG:158:LEU:HD12	3:BG:224:LEU:CD2	2.23	0.67
3:BH:158:LEU:HD12	3:BH:224:LEU:CD2	2.23	0.67
3:BM:82:CYS:HG	3:BM:135:CYS:HB3	1.55	0.67
3:BN:293:TRP:O	3:BN:297:TYR:HD1	1.76	0.67
4:BX:679:ASP:HB3	4:BX:695:VAL:CG1	2.23	0.67
1:AA:839:MET:HE3	1:AA:840:HIS:CA	2.24	0.67
2:AF:220:THR:O	2:AF:220:THR:CG2	2.39	0.67
3:BA:277:THR:CG2	3:BA:278:ALA:N	2.58	0.67
3:BA:293:TRP:CE3	3:BA:297:TYR:HE1	2.11	0.67
3:BF:255:ARG:HD2	3:BF:257:ASN:HD22	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:252:LEU:HG	3:BG:253:GLY:N	2.09	0.67
3:BH:277:THR:CG2	3:BH:278:ALA:N	2.58	0.67
3:BI:312:LYS:HE3	3:BI:315:ARG:NH1	2.10	0.67
3:BJ:125:ALA:CB	3:BJ:223:LYS:CD	2.53	0.67
3:BL:266:SER:OG	3:BL:267:ASP:N	2.27	0.67
3:BM:128:SER:HA	3:BM:155:LEU:CD1	2.25	0.67
3:BM:293:TRP:O	3:BM:297:TYR:HD1	1.76	0.67
3:BN:170:ILE:HD13	3:BN:239:VAL:HG23	1.76	0.67
4:BX:699:ASP:OD1	4:BX:700:GLU:O	2.11	0.67
4:BZ:305:TYR:CE1	4:BZ:307:ARG:NE	2.62	0.67
1:AB:374:ALA:HB1	1:AB:580:SER:CA	2.25	0.67
1:AB:439:ALA:O	1:AB:518:PHE:HD1	1.78	0.67
2:AM:34:PHE:CD2	2:AM:66:LEU:CD1	2.77	0.67
3:BJ:55:ILE:CG2	3:BJ:56:ASN:H	2.07	0.67
3:BM:170:ILE:HD13	3:BM:239:VAL:HG23	1.76	0.67
3:BN:174:TYR:HD2	3:BN:198:LEU:HD11	0.88	0.67
4:BX:517:LEU:HD11	4:BX:639:ALA:HB1	1.77	0.67
4:BY:307:ARG:NH2	4:BY:312:VAL:HG22	2.10	0.67
4:BY:546:THR:O	4:BY:549:MET:HB2	1.95	0.67
1:AA:282:VAL:O	1:AA:284:TYR:N	2.28	0.67
1:AA:570:THR:HG22	1:AA:571:LEU:N	2.08	0.67
1:AB:311:HIS:CD2	1:AB:311:HIS:H	2.13	0.67
1:AB:387:LEU:CD2	1:AB:554:TYR:CE1	2.76	0.67
1:AB:666:ARG:CG	1:AB:667:ASP:N	2.58	0.67
2:AK:313:PRO:HD2	3:BN:279:PRO:CB	2.25	0.67
3:BF:263:VAL:HG12	3:BF:289:TRP:HB2	1.76	0.67
3:BI:286:ARG:HH12	3:BK:268:VAL:HG12	1.60	0.67
3:BJ:158:LEU:HD12	3:BJ:224:LEU:CD2	2.23	0.67
3:BJ:268:VAL:CG2	3:BK:266:SER:HB2	2.24	0.67
3:BJ:293:TRP:O	3:BJ:297:TYR:HD1	1.76	0.67
3:BK:229:VAL:HG12	3:BK:235:HIS:HE1	1.52	0.67
3:BL:255:ARG:HD2	3:BL:257:ASN:HD22	1.60	0.67
3:BM:126:SER:HA	3:BM:223:LYS:HZ2	1.59	0.67
3:BM:174:TYR:CE1	3:BM:198:LEU:HD13	2.30	0.67
3:BP:315:ARG:N	3:BP:315:ARG:CD	2.58	0.67
4:BX:66:ASP:HB3	4:BX:286:GLY:N	2.10	0.67
4:BX:262:TRP:HE3	4:BX:473:LEU:C	1.98	0.67
4:BX:442:THR:HG22	4:BX:443:ARG:H	1.60	0.67
4:BY:77:PRO:HD3	4:BY:287:LEU:HD11	1.77	0.67
4:BZ:693:TYR:HA	4:BZ:699:ASP:O	1.95	0.67
4:BZ:694:ARG:O	4:BZ:696:GLU:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:202:PRO:CG	4:BZ:577:ARG:HE	2.08	0.67
2:AJ:164:PHE:H	3:BM:61:GLY:C	1.98	0.67
2:AM:34:PHE:CE2	2:AM:66:LEU:HD11	2.29	0.67
2:AN:38:ILE:HG22	2:AN:42:ASN:ND2	2.09	0.67
3:BF:144:TYR:HE2	3:BF:146:ALA:N	1.93	0.67
3:BG:69:ASN:HB3	4:BY:507:ALA:HB2	1.76	0.67
3:BI:144:TYR:HE2	3:BI:146:ALA:N	1.93	0.67
3:BJ:56:ASN:O	3:BJ:57:LEU:HD23	1.95	0.67
3:BJ:170:ILE:HD13	3:BJ:239:VAL:HG23	1.76	0.67
3:BL:158:LEU:HD12	3:BL:224:LEU:CD2	2.23	0.67
3:BL:172:LEU:HB2	3:BL:173:TYR:CE1	2.29	0.67
3:BM:255:ARG:CD	3:BM:257:ASN:HD22	2.07	0.67
3:BM:257:ASN:O	3:BM:258:VAL:C	2.33	0.67
3:BO:162:GLU:HB3	3:BO:253:GLY:C	2.13	0.67
3:BP:144:TYR:HE2	3:BP:146:ALA:N	1.93	0.67
4:BY:270:ASP:CB	4:BY:307:ARG:HD2	2.25	0.67
4:BY:307:ARG:NH1	4:BY:312:VAL:HG11	2.09	0.67
4:BZ:666:LYS:O	4:BZ:667:PHE:HD1	1.78	0.67
1:AB:419:PHE:HD2	1:AB:424:LEU:HD21	1.57	0.67
1:AB:440:PHE:HD1	1:AB:518:PHE:CE1	2.12	0.67
1:AB:855:LEU:O	1:AB:857:PHE:N	2.28	0.67
3:BA:257:ASN:O	3:BA:258:VAL:C	2.33	0.67
3:BJ:257:ASN:CG	3:BJ:313:ARG:HG3	2.16	0.67
3:BJ:293:TRP:CE3	3:BJ:297:TYR:HE1	2.11	0.67
3:BN:167:PRO:HA	3:BN:247:ARG:HD2	1.77	0.67
4:BX:37:LEU:HD11	4:BX:480:TYR:CE2	2.30	0.67
4:BY:500:GLU:O	4:BY:503:GLU:HG3	1.95	0.67
4:BZ:549:MET:C	4:BZ:551:LYS:H	1.97	0.67
1:AA:605:ASN:O	1:AA:608:VAL:HB	1.95	0.66
1:AB:156:PRO:CB	1:AB:161:ASP:HB3	2.26	0.66
1:AB:293:PRO:C	1:AB:295:THR:H	1.98	0.66
1:AB:371:ASN:C	1:AB:373:GLN:N	2.45	0.66
2:AD:340:LYS:HD3	2:AD:342:MET:CE	2.25	0.66
2:AE:38:ILE:HG22	2:AE:42:ASN:ND2	2.09	0.66
2:AE:203:ALA:CA	4:BY:775:ARG:CZ	2.71	0.66
2:AG:340:LYS:HD3	2:AG:342:MET:CE	2.25	0.66
2:AJ:340:LYS:HD3	2:AJ:342:MET:CE	2.25	0.66
2:AM:106:ARG:HG2	2:AM:107:ASN:H	1.59	0.66
2:AN:93:ASP:O	2:AN:97:MET:HG3	1.95	0.66
3:BF:270:ASP:OD2	3:BG:286:ARG:CG	2.44	0.66
3:BI:189:SER:HB2	3:BI:243:THR:HB	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:257:ASN:O	3:BK:258:VAL:C	2.33	0.66
3:BL:252:LEU:O	3:BL:253:GLY:O	2.13	0.66
3:BM:229:VAL:HG12	3:BM:235:HIS:HE1	1.52	0.66
3:BN:229:VAL:HG12	3:BN:235:HIS:HE1	1.52	0.66
3:BO:189:SER:HB2	3:BO:243:THR:HB	1.78	0.66
3:BP:313:ARG:O	3:BP:313:ARG:CG	2.33	0.66
3:BQ:126:SER:CA	3:BQ:223:LYS:NZ	2.55	0.66
4:BX:33:VAL:CB	4:BY:36:ASN:HD22	2.09	0.66
4:BX:726:THR:HG21	4:BX:766:ARG:HB2	1.75	0.66
4:BY:585:GLY:HA3	4:BY:709:ALA:CB	2.25	0.66
1:AA:245:LEU:HB3	1:AA:249:ASP:CB	2.25	0.66
1:AA:647:LYS:HE3	1:AA:654:ILE:CD1	2.25	0.66
1:AB:702:GLY:HA3	1:AB:759:LEU:O	1.95	0.66
2:AG:202:PRO:HG3	4:BZ:577:ARG:NE	2.10	0.66
2:AK:93:ASP:O	2:AK:97:MET:HG3	1.95	0.66
2:AM:340:LYS:HD3	2:AM:342:MET:CE	2.25	0.66
3:BF:277:THR:CG2	3:BF:278:ALA:N	2.58	0.66
3:BG:166:ASN:OD1	3:BG:324:TYR:HB3	1.95	0.66
3:BJ:126:SER:CA	3:BJ:223:LYS:NZ	2.55	0.66
3:BN:144:TYR:HE2	3:BN:146:ALA:CA	2.09	0.66
3:BP:170:ILE:HD13	3:BP:239:VAL:HG23	1.76	0.66
4:BX:537:THR:HA	4:BX:540:ALA:CB	2.25	0.66
4:BX:624:MET:O	4:BX:626:THR:N	2.26	0.66
4:BY:263:LYS:CB	4:BY:477:ASN:HB2	2.15	0.66
4:BY:597:GLN:O	4:BY:598:ILE:C	2.34	0.66
4:BZ:581:ILE:HA	4:BZ:597:GLN:HG2	1.77	0.66
4:BZ:668:ILE:HG13	4:BZ:774:CYS:SG	2.36	0.66
1:AA:577:GLN:O	1:AA:581:VAL:HG23	1.95	0.66
1:AB:477:ASN:CG	2:AI:39:ILE:CG2	2.63	0.66
1:AB:712:LEU:HD12	1:AB:722:ASN:HB3	1.77	0.66
1:AB:786:ILE:HG23	1:AB:792:VAL:HG12	1.78	0.66
2:AG:106:ARG:H	2:AG:106:ARG:HD3	1.59	0.66
2:AK:106:ARG:CG	2:AK:107:ASN:H	2.03	0.66
2:AK:313:PRO:HD2	3:BN:279:PRO:HB3	1.76	0.66
2:AM:164:PHE:H	3:BQ:61:GLY:HA3	1.60	0.66
2:AO:220:THR:O	2:AO:220:THR:CG2	2.39	0.66
3:BG:189:SER:HB2	3:BG:243:THR:HB	1.78	0.66
3:BG:257:ASN:O	3:BG:258:VAL:C	2.33	0.66
3:BG:310:MET:O	3:BG:311:SER:CB	2.43	0.66
3:BH:144:TYR:HE2	3:BH:146:ALA:CA	2.08	0.66
3:BH:293:TRP:CE3	3:BH:297:TYR:HE1	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:251:LYS:HZ1	3:BI:271:ILE:HG22	1.60	0.66
3:BN:263:VAL:HG12	3:BN:289:TRP:HB2	1.78	0.66
3:BO:137:TYR:CD2	3:BO:310:MET:SD	2.85	0.66
3:BO:158:LEU:HD12	3:BO:224:LEU:CD2	2.23	0.66
3:BO:174:TYR:CE1	3:BO:198:LEU:HD13	2.29	0.66
3:BP:293:TRP:CE3	3:BP:297:TYR:HE1	2.11	0.66
4:BX:262:TRP:CD1	4:BY:262:TRP:CD1	2.83	0.66
4:BX:262:TRP:CE3	4:BX:473:LEU:O	2.48	0.66
4:BX:416:THR:O	4:BX:418:PHE:N	2.29	0.66
4:BX:572:ALA:HA	4:BY:516:GLN:HB2	1.75	0.66
1:AA:246:HIS:CD2	1:AA:248:ILE:HB	2.30	0.66
1:AA:524:ASP:O	1:AA:526:LYS:N	2.29	0.66
1:AB:549:LEU:HD13	1:AB:877:MET:HE1	1.77	0.66
1:AB:626:THR:CG2	1:AB:630:ARG:NH2	2.58	0.66
1:AB:803:ASN:H	1:AB:807:ASN:HD21	1.43	0.66
2:AD:24:TYR:O	2:AD:27:VAL:HG22	1.94	0.66
2:AE:262:GLU:HB3	4:BY:725:LYS:NZ	2.11	0.66
2:AG:6:SER:OG	2:AG:128:ASN:HA	1.96	0.66
2:AJ:6:SER:OG	2:AJ:128:ASN:HA	1.96	0.66
2:AJ:219:THR:HG22	2:AJ:220:THR:N	2.08	0.66
2:AK:169:SER:N	3:BP:51:GLN:HA	2.10	0.66
2:AM:255:ARG:HD3	3:BO:65:THR:OG1	1.92	0.66
3:BF:293:TRP:CE3	3:BF:297:TYR:HE1	2.11	0.66
3:BG:137:TYR:OH	3:BG:312:LYS:HB3	1.93	0.66
3:BI:64:ASP:C	3:BI:65:THR:HG22	2.15	0.66
3:BI:315:ARG:O	3:BI:315:ARG:CG	2.40	0.66
3:BJ:144:TYR:HE2	3:BJ:146:ALA:N	1.94	0.66
3:BM:168:MET:HE2	3:BM:175:TYR:CG	2.31	0.66
3:BQ:144:TYR:HE2	3:BQ:146:ALA:N	1.93	0.66
4:BX:691:PHE:N	4:BX:691:PHE:CD1	2.63	0.66
4:BY:22:ILE:O	4:BY:26:GLY:N	2.28	0.66
4:BY:519:ASP:O	4:BY:521:ALA:N	2.25	0.66
4:BY:618:ARG:CA	4:BY:622:LYS:HD2	2.23	0.66
4:BZ:517:LEU:HD11	4:BZ:639:ALA:HB1	1.76	0.66
1:AA:122:LEU:O	1:AA:123:PHE:CB	2.30	0.66
1:AA:314:PHE:CZ	1:AA:664:ARG:CG	2.78	0.66
1:AB:869:VAL:N	1:AB:876:ILE:HG23	2.09	0.66
2:AG:205:ILE:HD13	4:BZ:580:SER:HB2	1.77	0.66
2:AG:310:ASN:HB3	3:BJ:180:GLU:OE1	1.95	0.66
3:BA:168:MET:HA	3:BA:175:TYR:OH	1.95	0.66
3:BJ:144:TYR:HD2	3:BJ:145:ASP:N	1.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:261:ILE:CD1	3:BJ:285:MET:SD	2.83	0.66
3:BJ:310:MET:O	3:BJ:311:SER:CB	2.42	0.66
3:BL:255:ARG:HD2	3:BL:257:ASN:ND2	2.11	0.66
3:BL:263:VAL:HG12	3:BL:289:TRP:HB2	1.76	0.66
3:BN:126:SER:CA	3:BN:223:LYS:NZ	2.55	0.66
3:BN:144:TYR:HE2	3:BN:146:ALA:N	1.94	0.66
3:BN:257:ASN:ND2	3:BN:315:ARG:HD3	2.11	0.66
3:BO:144:TYR:HD2	3:BO:145:ASP:N	1.94	0.66
3:BO:258:VAL:CG2	3:BO:259:ALA:N	2.59	0.66
3:BP:144:TYR:HD2	3:BP:145:ASP:N	1.93	0.66
3:BP:277:THR:CG2	3:BP:278:ALA:N	2.58	0.66
3:BP:310:MET:CG	3:BP:311:SER:H	1.92	0.66
3:BQ:257:ASN:O	3:BQ:258:VAL:C	2.33	0.66
3:BQ:258:VAL:CG2	3:BQ:259:ALA:N	2.59	0.66
4:BX:716:PRO:HD2	4:BY:750:ARG:NH2	2.10	0.66
4:BX:755:PHE:HA	4:BX:759:ASP:OD2	1.96	0.66
4:BY:631:MET:SD	4:BY:749:PRO:HA	2.36	0.66
1:AA:328:LEU:HD11	1:AA:606:VAL:HG21	1.77	0.66
1:AA:537:SER:O	1:AA:540:LEU:HB3	1.96	0.66
1:AA:675:GLU:O	1:AA:678:ARG:N	2.27	0.66
1:AB:180:TYR:O	1:AB:181:LEU:HG	1.95	0.66
1:AB:431:ILE:HA	1:AB:435:ILE:HD12	1.76	0.66
1:AB:755:GLN:O	1:AB:757:VAL:HG23	1.95	0.66
1:AB:766:ILE:HD11	1:AB:796:LYS:HD3	1.77	0.66
2:AK:238:ILE:HG23	3:BN:63:MET:CE	2.25	0.66
3:BH:266:SER:HA	3:BH:286:ARG:NH2	2.11	0.66
3:BI:258:VAL:CG2	3:BI:259:ALA:N	2.59	0.66
3:BI:277:THR:CG2	3:BI:278:ALA:N	2.58	0.66
3:BK:168:MET:HE2	3:BK:175:TYR:CG	2.31	0.66
3:BL:128:SER:CA	3:BL:155:LEU:HD13	2.26	0.66
3:BL:261:ILE:CD1	3:BL:285:MET:SD	2.84	0.66
3:BL:285:MET:HE3	3:BL:306:ILE:HG23	1.77	0.66
3:BQ:170:ILE:HD13	3:BQ:239:VAL:HG23	1.76	0.66
3:BQ:189:SER:HB2	3:BQ:243:THR:HB	1.78	0.66
4:BX:514:MET:CB	4:BX:756:ILE:HD11	2.19	0.66
4:BY:41:ALA:N	4:BY:259:THR:O	2.29	0.66
4:BZ:726:THR:HG21	4:BZ:766:ARG:HB2	1.78	0.66
1:AA:474:PHE:O	1:AA:478:ASN:HB2	1.96	0.66
1:AB:218:GLU:HG3	1:AB:221:VAL:CG2	2.25	0.66
1:AB:626:THR:CG2	1:AB:630:ARG:HH21	2.09	0.66
2:AC:295:MET:CE	3:BH:67:TYR:CG	2.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:106:ARG:H	2:AD:106:ARG:HD3	1.59	0.66
2:AG:11:LEU:O	2:AG:14:ALA:HB3	1.96	0.66
2:AG:106:ARG:HG2	2:AG:107:ASN:H	1.59	0.66
2:AH:93:ASP:O	2:AH:97:MET:HG3	1.95	0.66
2:AM:6:SER:OG	2:AM:128:ASN:HA	1.96	0.66
3:BF:154:GLU:HG3	3:BG:290:LYS:HZ3	1.54	0.66
3:BF:170:ILE:HD13	3:BF:239:VAL:HG23	1.76	0.66
3:BF:178:THR:H	3:BF:182:ASN:HD22	1.41	0.66
3:BI:257:ASN:O	3:BI:258:VAL:C	2.33	0.66
3:BK:277:THR:CG2	3:BK:278:ALA:N	2.58	0.66
3:BN:174:TYR:HD1	4:BX:489:THR:HG23	1.60	0.66
3:BQ:158:LEU:HD12	3:BQ:224:LEU:CD2	2.23	0.66
4:BX:693:TYR:OH	4:BX:724:PHE:HB2	1.95	0.66
4:BY:584:VAL:O	4:BY:709:ALA:HB2	1.96	0.66
4:BY:724:PHE:O	4:BY:727:LEU:N	2.28	0.66
1:AA:119:GLN:HG2	1:AA:181:LEU:HD11	1.76	0.66
1:AA:416:ASN:HB3	1:AA:424:LEU:CD2	2.23	0.66
1:AA:622:VAL:CG1	1:AA:672:LEU:O	2.43	0.66
1:AB:192:ASN:O	1:AB:193:SER:HB3	1.94	0.66
1:AB:594:ILE:C	1:AB:594:ILE:CD1	2.64	0.66
2:AF:93:ASP:O	2:AF:97:MET:HG3	1.96	0.66
2:AG:202:PRO:CB	4:BZ:577:ARG:HE	2.09	0.66
3:BA:255:ARG:HD2	3:BA:257:ASN:ND2	2.11	0.66
3:BG:258:VAL:CG2	3:BG:259:ALA:N	2.59	0.66
3:BH:189:SER:HB2	3:BH:243:THR:HB	1.77	0.66
3:BH:261:ILE:CD1	3:BH:285:MET:SD	2.84	0.66
3:BK:144:TYR:HE2	3:BK:146:ALA:N	1.94	0.66
3:BK:252:LEU:HG	3:BK:253:GLY:N	2.08	0.66
3:BL:64:ASP:C	3:BL:65:THR:CG2	2.51	0.66
3:BP:189:SER:HB2	3:BP:243:THR:HB	1.78	0.66
3:BQ:261:ILE:CD1	3:BQ:285:MET:SD	2.84	0.66
4:BX:262:TRP:HD1	4:BY:262:TRP:CD1	2.14	0.66
4:BZ:443:ARG:O	4:BZ:443:ARG:CG	2.44	0.66
1:AB:319:ASP:OD2	1:AB:572:THR:HG23	1.96	0.66
1:AB:494:ASN:ND2	1:AB:495:ASP:H	1.93	0.66
1:AB:501:HIS:O	1:AB:501:HIS:HD2	1.79	0.66
1:AB:672:LEU:HB3	1:AB:673:PRO:HD2	1.77	0.66
1:AB:764:PRO:O	1:AB:765:PHE:HB2	1.95	0.66
2:AD:106:ARG:HG2	2:AD:107:ASN:H	1.59	0.66
2:AI:239:ASN:HD22	3:BL:65:THR:HA	1.61	0.66
2:AO:67:GLY:O	2:AO:69:THR:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:189:SER:HB2	3:BF:243:THR:HB	1.78	0.66
3:BI:261:ILE:CD1	3:BI:285:MET:SD	2.84	0.66
3:BI:268:VAL:O	3:BI:269:LEU:HD23	1.95	0.66
3:BP:261:ILE:CD1	3:BP:285:MET:SD	2.84	0.66
4:BX:549:MET:C	4:BX:551:LYS:H	1.99	0.66
4:BY:274:ARG:NH2	4:BY:305:TYR:CD1	2.64	0.66
4:BY:479:ASP:O	4:BY:482:THR:HG23	1.95	0.66
4:BY:666:LYS:O	4:BY:667:PHE:HD1	1.79	0.66
1:AA:204:THR:CG2	1:AA:244:ILE:HD12	2.26	0.66
1:AA:493:LEU:HD11	1:AA:566:GLN:O	1.96	0.66
1:AA:503:VAL:C	1:AA:505:GLN:N	2.50	0.66
1:AA:622:VAL:CG2	1:AA:672:LEU:HB2	2.25	0.66
1:AA:697:ASP:O	1:AA:699:ILE:N	2.29	0.66
1:AA:734:ASN:HB3	1:AA:737:GLU:HG2	1.77	0.66
1:AB:779:ASP:HA	1:AB:798:ILE:CD1	2.21	0.66
2:AH:340:LYS:HD3	2:AH:342:MET:CE	2.26	0.66
3:BF:257:ASN:O	3:BF:258:VAL:C	2.33	0.66
3:BG:129:VAL:HG22	3:BG:187:MET:HG3	1.77	0.66
3:BG:255:ARG:CD	3:BG:257:ASN:HD22	2.09	0.66
3:BJ:150:LEU:HD23	3:BK:290:LYS:CG	2.26	0.66
3:BK:126:SER:CA	3:BK:223:LYS:HZ1	2.00	0.66
3:BK:144:TYR:CE2	3:BK:146:ALA:CB	2.79	0.66
3:BO:277:THR:CG2	3:BO:278:ALA:N	2.58	0.66
3:BQ:178:THR:H	3:BQ:182:ASN:HD22	1.41	0.66
4:BX:500:GLU:O	4:BX:503:GLU:HG3	1.95	0.66
4:BY:72:THR:HG21	4:BY:333:LEU:HD22	1.78	0.66
1:AA:474:PHE:CD1	2:AG:69:THR:HG23	2.30	0.65
1:AA:524:ASP:O	1:AA:527:ARG:N	2.27	0.65
1:AA:563:MET:HA	1:AA:563:MET:CE	2.18	0.65
1:AA:694:ARG:HA	1:AA:701:GLN:HE22	1.61	0.65
2:AD:11:LEU:O	2:AD:14:ALA:HB3	1.96	0.65
2:AG:205:ILE:CD1	4:BZ:580:SER:HB2	2.27	0.65
2:AI:93:ASP:O	2:AI:97:MET:HG3	1.96	0.65
3:BH:126:SER:CA	3:BH:223:LYS:NZ	2.55	0.65
3:BL:78:THR:HG22	3:BL:78:THR:O	1.94	0.65
3:BL:293:TRP:CE3	3:BL:297:TYR:HE1	2.11	0.65
3:BN:261:ILE:CD1	3:BN:285:MET:SD	2.84	0.65
3:BP:96:ASN:CB	4:BX:39:PRO:CB	2.73	0.65
3:BP:175:TYR:OH	3:BP:237:LEU:HD22	1.96	0.65
3:BQ:277:THR:CG2	3:BQ:278:ALA:N	2.58	0.65
4:BY:17:ASP:OD2	4:BZ:542:LYS:HD2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:265:MET:HE3	4:BY:477:ASN:HD21	1.62	0.65
4:BY:541:ALA:O	4:BY:545:ALA:N	2.28	0.65
1:AA:219:GLY:O	1:AA:221:VAL:N	2.29	0.65
1:AA:428:GLN:CB	1:AA:456:PHE:CD1	2.79	0.65
1:AA:646:LEU:CD2	1:AA:665:LEU:CD2	2.74	0.65
1:AA:646:LEU:O	1:AA:649:LEU:HD12	1.96	0.65
1:AB:371:ASN:HA	1:AB:374:ALA:HB3	1.79	0.65
1:AB:374:ALA:HB1	1:AB:580:SER:HB3	1.77	0.65
2:AC:246:THR:HG22	3:BG:67:TYR:CE2	2.31	0.65
2:AD:93:ASP:O	2:AD:97:MET:HG3	1.96	0.65
2:AH:69:THR:HG22	2:AH:70:LEU:H	1.62	0.65
2:AI:11:LEU:O	2:AI:14:ALA:HB3	1.97	0.65
2:AI:356:PRO:CA	4:BX:735:GLY:HA2	2.21	0.65
2:AL:11:LEU:O	2:AL:14:ALA:HB3	1.97	0.65
2:AN:340:LYS:HD3	2:AN:342:MET:CE	2.26	0.65
3:BA:255:ARG:CD	3:BA:257:ASN:HD22	2.09	0.65
3:BA:269:LEU:O	3:BA:270:ASP:C	2.35	0.65
3:BF:172:LEU:CD2	4:BZ:466:GLY:C	2.65	0.65
3:BH:258:VAL:CG2	3:BH:259:ALA:N	2.59	0.65
3:BJ:64:ASP:C	3:BJ:65:THR:CG2	2.51	0.65
3:BJ:82:CYS:CA	3:BJ:135:CYS:SG	2.85	0.65
3:BJ:175:TYR:OH	3:BJ:237:LEU:HD22	1.96	0.65
3:BK:307:ILE:HD13	3:BK:310:MET:HE3	1.78	0.65
3:BM:130:ASP:N	3:BM:131:PRO:CD	2.58	0.65
3:BN:163:TRP:CZ2	3:BN:251:LYS:HE2	2.31	0.65
3:BN:277:THR:CG2	3:BN:278:ALA:N	2.58	0.65
3:BN:285:MET:HE3	3:BN:306:ILE:HG23	1.78	0.65
3:BO:144:TYR:HE2	3:BO:146:ALA:N	1.93	0.65
3:BO:257:ASN:O	3:BO:258:VAL:C	2.33	0.65
4:BZ:694:ARG:NH2	4:BZ:701:ILE:HG21	2.10	0.65
4:BZ:724:PHE:O	4:BZ:727:LEU:N	2.30	0.65
1:AA:302:ASN:C	1:AA:303:LEU:HD23	2.15	0.65
1:AA:390:ARG:HD2	1:AA:570:THR:HG21	1.78	0.65
1:AA:675:GLU:H	1:AA:678:ARG:HG3	1.61	0.65
1:AB:435:ILE:HG22	1:AB:436:ILE:N	2.05	0.65
1:AB:449:ASN:ND2	1:AB:450:GLY:H	1.94	0.65
1:AB:587:LEU:HG	1:AB:587:LEU:O	1.96	0.65
1:AB:666:ARG:HG3	1:AB:667:ASP:N	2.11	0.65
2:AC:11:LEU:O	2:AC:14:ALA:HB3	1.97	0.65
2:AE:93:ASP:O	2:AE:97:MET:HG3	1.95	0.65
2:AE:270:ILE:CA	4:BY:728:LYS:CE	2.70	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:202:PRO:HG3	4:BZ:577:ARG:HE	1.61	0.65
2:AJ:34:PHE:HD2	2:AJ:66:LEU:CD1	2.08	0.65
3:BA:125:ALA:CB	3:BA:223:LYS:CD	2.53	0.65
3:BG:257:ASN:C	3:BG:258:VAL:O	2.35	0.65
3:BI:257:ASN:C	3:BI:258:VAL:O	2.35	0.65
3:BJ:252:LEU:CG	3:BJ:253:GLY:H	2.02	0.65
3:BK:144:TYR:HE2	3:BK:146:ALA:CA	2.08	0.65
3:BL:170:ILE:HD13	3:BL:239:VAL:HG23	1.78	0.65
3:BM:82:CYS:CA	3:BM:135:CYS:SG	2.84	0.65
3:BM:128:SER:OG	3:BM:224:LEU:CB	2.44	0.65
3:BM:258:VAL:CG2	3:BM:259:ALA:N	2.59	0.65
3:BN:164:LEU:O	3:BN:250:LYS:N	2.23	0.65
3:BP:257:ASN:C	3:BP:258:VAL:O	2.35	0.65
4:BY:537:THR:HG21	4:BY:541:ALA:HB2	1.76	0.65
4:BY:550:LYS:O	4:BY:550:LYS:HG2	1.95	0.65
4:BZ:366:VAL:O	4:BZ:366:VAL:HG12	1.96	0.65
4:BZ:755:PHE:HB3	4:BZ:763:ILE:HD12	1.76	0.65
1:AB:404:LEU:HD21	1:AB:430:ALA:HB1	1.77	0.65
2:AE:340:LYS:HD3	2:AE:342:MET:CE	2.26	0.65
2:AG:123:LYS:HG3	2:AG:124:PHE:CE1	2.32	0.65
2:AO:340:LYS:HD3	2:AO:342:MET:CE	2.27	0.65
3:BA:174:TYR:CD1	3:BA:198:LEU:HD12	2.29	0.65
3:BA:189:SER:HB2	3:BA:243:THR:HB	1.78	0.65
3:BF:82:CYS:CA	3:BF:135:CYS:SG	2.85	0.65
3:BF:172:LEU:HD22	4:BZ:467:ARG:N	2.11	0.65
3:BG:150:LEU:CD2	3:BH:290:LYS:HA	2.27	0.65
3:BG:307:ILE:HA	3:BG:310:MET:HE3	1.79	0.65
3:BM:175:TYR:OH	3:BM:237:LEU:HD22	1.96	0.65
3:BN:82:CYS:CA	3:BN:135:CYS:SG	2.85	0.65
3:BO:55:ILE:CD1	3:BO:322:PHE:HB3	2.26	0.65
4:BX:693:TYR:CD1	4:BX:693:TYR:N	2.64	0.65
4:BY:721:ILE:HG22	4:BY:722:ILE:HG23	1.78	0.65
4:BZ:622:LYS:O	4:BZ:622:LYS:HE3	1.95	0.65
1:AB:605:ASN:O	1:AB:608:VAL:HB	1.97	0.65
1:AB:869:VAL:HG11	1:AB:873:ASN:HA	1.77	0.65
2:AO:11:LEU:O	2:AO:14:ALA:HB3	1.96	0.65
3:BA:162:GLU:CB	3:BA:253:GLY:O	2.45	0.65
3:BA:272:THR:HG21	3:BA:277:THR:CG2	2.27	0.65
3:BG:126:SER:CA	3:BG:223:LYS:NZ	2.55	0.65
3:BG:293:TRP:CE3	3:BG:297:TYR:HE1	2.12	0.65
3:BH:144:TYR:HE2	3:BH:146:ALA:N	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:257:ASN:C	3:BH:258:VAL:O	2.35	0.65
3:BI:251:LYS:NZ	3:BI:271:ILE:CG2	2.59	0.65
3:BK:144:TYR:HD2	3:BK:145:ASP:N	1.95	0.65
3:BL:144:TYR:HE2	3:BL:146:ALA:CA	2.08	0.65
3:BO:175:TYR:OH	3:BO:237:LEU:HD22	1.96	0.65
3:BP:258:VAL:CG2	3:BP:259:ALA:N	2.59	0.65
4:BX:419:VAL:HG12	4:BX:420:SER:N	2.09	0.65
4:BX:573:SER:O	4:BX:575:ILE:HG22	1.95	0.65
4:BY:488:VAL:CG1	4:BY:489:THR:N	2.53	0.65
4:BY:726:THR:HG21	4:BY:766:ARG:HB2	1.76	0.65
1:AA:469:ALA:C	2:AG:71:LEU:CD2	2.65	0.65
2:AG:93:ASP:O	2:AG:97:MET:HG3	1.96	0.65
3:BF:252:LEU:HG	3:BF:253:GLY:N	2.11	0.65
3:BG:261:ILE:CD1	3:BG:285:MET:SD	2.84	0.65
3:BI:150:LEU:CD2	3:BJ:290:LYS:HA	2.26	0.65
3:BJ:229:VAL:HG12	3:BJ:235:HIS:HE1	1.52	0.65
3:BL:189:SER:HB2	3:BL:243:THR:HB	1.78	0.65
3:BM:261:ILE:CD1	3:BM:285:MET:SD	2.84	0.65
3:BN:307:ILE:HA	3:BN:310:MET:CE	2.27	0.65
4:BX:528:PHE:HB2	4:BZ:10:LEU:O	1.97	0.65
4:BY:2:ALA:CB	4:BY:638:ALA:HB2	2.27	0.65
4:BY:40:PHE:CD2	4:BY:259:THR:CB	2.57	0.65
4:BY:644:LYS:C	4:BY:646:ASP:H	2.00	0.65
1:AA:629:ASN:C	1:AA:631:LEU:H	2.00	0.65
1:AB:501:HIS:O	1:AB:501:HIS:CD2	2.49	0.65
2:AJ:11:LEU:O	2:AJ:14:ALA:HB3	1.96	0.65
2:AJ:123:LYS:HG3	2:AJ:124:PHE:CE1	2.32	0.65
3:BF:255:ARG:HD2	3:BF:257:ASN:ND2	2.11	0.65
3:BG:82:CYS:CA	3:BG:135:CYS:SG	2.85	0.65
3:BI:82:CYS:CA	3:BI:135:CYS:SG	2.84	0.65
3:BI:132:GLN:HA	3:BI:319:SER:CB	2.26	0.65
3:BI:191:CYS:HG	3:BI:244:CYS:CB	2.09	0.65
3:BM:59:ILE:HG22	3:BM:60:THR:O	1.97	0.65
3:BM:257:ASN:C	3:BM:258:VAL:O	2.35	0.65
3:BM:277:THR:CG2	3:BM:278:ALA:N	2.58	0.65
4:BX:45:TYR:OH	4:BX:262:TRP:CZ3	2.46	0.65
4:BX:541:ALA:HA	4:BX:544:MET:HB3	1.78	0.65
4:BY:358:ASP:O	4:BY:363:ARG:HD2	1.96	0.65
1:AB:355:LEU:HG	1:AB:356:GLU:N	2.11	0.65
1:AB:371:ASN:C	1:AB:373:GLN:H	1.98	0.65
1:AB:734:ASN:HB3	1:AB:737:GLU:HB2	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:11:LEU:O	2:AE:14:ALA:HB3	1.97	0.65
2:AE:54:LEU:HD12	2:AE:55:PRO:HD2	1.79	0.65
2:AI:4:LEU:HA	2:AI:7:LEU:HD12	1.79	0.65
2:AJ:93:ASP:O	2:AJ:97:MET:HG3	1.96	0.65
2:AK:220:THR:O	2:AK:220:THR:CG2	2.39	0.65
2:AL:340:LYS:HD3	2:AL:342:MET:CE	2.27	0.65
2:AM:11:LEU:O	2:AM:14:ALA:HB3	1.96	0.65
2:AN:54:LEU:HD12	2:AN:55:PRO:HD2	1.79	0.65
3:BA:80:THR:HG21	3:BQ:166:ASN:CG	2.17	0.65
3:BA:148:LEU:HD22	3:BA:151:ASP:OD2	1.96	0.65
3:BI:263:VAL:HG11	3:BI:289:TRP:HE3	1.62	0.65
3:BJ:53:TYR:HA	3:BL:55:ILE:HG12	1.77	0.65
3:BM:64:ASP:C	3:BM:65:THR:HG22	2.16	0.65
3:BN:173:TYR:CD2	4:BX:489:THR:OG1	2.48	0.65
3:BO:76:PHE:HE2	3:BO:111:TRP:CD1	2.14	0.65
3:BP:69:ASN:HD21	4:BX:598:ILE:HD11	1.61	0.65
4:BX:665:GLU:HG3	4:BX:666:LYS:HG3	1.78	0.65
4:BY:479:ASP:C	4:BY:479:ASP:OD1	2.34	0.65
4:BY:736:ILE:CG2	4:BY:741:ALA:HB2	2.27	0.65
1:AA:176:GLU:HG2	1:AA:176:GLU:O	1.96	0.65
1:AB:99:GLU:HB3	1:AB:100:PRO:CD	2.25	0.65
1:AB:250:HIS:O	1:AB:254:GLU:HB2	1.97	0.65
1:AB:781:THR:O	1:AB:783:PHE:N	2.29	0.65
1:AB:805:ASP:C	1:AB:807:ASN:H	1.98	0.65
2:AG:4:LEU:HA	2:AG:7:LEU:HD12	1.79	0.65
2:AI:356:PRO:HA	4:BX:735:GLY:CA	2.22	0.65
2:AJ:4:LEU:HA	2:AJ:7:LEU:HD12	1.79	0.65
2:AJ:313:PRO:HD2	3:BM:279:PRO:HB3	1.79	0.65
2:AK:11:LEU:O	2:AK:14:ALA:HB3	1.97	0.65
2:AK:340:LYS:HD3	2:AK:342:MET:CE	2.26	0.65
2:AM:313:PRO:CD	3:BQ:279:PRO:HB2	2.27	0.65
3:BF:261:ILE:CD1	3:BF:285:MET:SD	2.84	0.65
3:BK:310:MET:CG	3:BK:311:SER:N	2.30	0.65
3:BL:286:ARG:HE	3:BN:270:ASP:CB	2.10	0.65
3:BM:126:SER:CA	3:BM:223:LYS:NZ	2.55	0.65
3:BO:82:CYS:CA	3:BO:135:CYS:SG	2.85	0.65
3:BP:76:PHE:CD2	3:BP:110:GLY:O	2.49	0.65
4:BZ:581:ILE:HG22	4:BZ:582:ARG:H	1.62	0.65
4:BZ:633:PHE:HB3	4:BZ:671:ARG:HH11	1.61	0.65
1:AB:182:LEU:HD22	1:AB:846:LEU:HA	1.78	0.65
1:AB:482:GLN:C	1:AB:483:VAL:HG23	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:712:LEU:CD1	1:AB:722:ASN:HB3	2.27	0.65
2:AF:340:LYS:HD3	2:AF:342:MET:CE	2.26	0.65
2:AK:38:ILE:HD12	2:AK:65:LEU:CD2	2.26	0.65
2:AK:54:LEU:HD12	2:AK:55:PRO:HD2	1.79	0.65
2:AL:93:ASP:O	2:AL:97:MET:HG3	1.96	0.65
2:AM:93:ASP:O	2:AM:97:MET:HG3	1.96	0.65
3:BF:144:TYR:CE2	3:BF:146:ALA:CA	2.80	0.65
3:BF:255:ARG:CD	3:BF:257:ASN:HD22	2.10	0.65
3:BI:144:TYR:CE2	3:BI:146:ALA:N	2.66	0.65
3:BK:82:CYS:CA	3:BK:135:CYS:SG	2.85	0.65
3:BP:267:ASP:H	3:BP:286:ARG:NH1	1.95	0.65
4:BX:250:ALA:O	4:BX:251:ASN:CB	2.44	0.65
4:BX:631:MET:SD	4:BX:749:PRO:HA	2.37	0.65
4:BY:681:VAL:CG2	4:BY:693:TYR:HB2	2.27	0.65
4:BZ:268:ASN:CG	4:BZ:269:ARG:N	2.50	0.65
1:AA:437:TYR:OH	1:AA:462:GLN:HG2	1.97	0.64
1:AA:462:GLN:HG3	1:AA:463:ILE:HG23	1.78	0.64
1:AA:717:MET:HG3	1:AA:718:TYR:HD1	1.61	0.64
1:AA:854:LEU:O	1:AA:856:ALA:N	2.30	0.64
1:AB:743:ASP:HB3	1:AB:790:ARG:NH1	2.11	0.64
2:AC:298:PRO:HD2	3:BH:67:TYR:CD2	2.31	0.64
2:AC:340:LYS:HD3	2:AC:342:MET:CE	2.27	0.64
2:AD:6:SER:OG	2:AD:128:ASN:HA	1.96	0.64
2:AM:123:LYS:HG3	2:AM:124:PHE:CE1	2.32	0.64
3:BA:257:ASN:C	3:BA:258:VAL:O	2.35	0.64
3:BG:137:TYR:CE1	3:BG:312:LYS:HB3	2.32	0.64
3:BI:150:LEU:HD12	3:BJ:288:ASN:OD1	1.96	0.64
3:BJ:257:ASN:O	3:BJ:258:VAL:C	2.33	0.64
3:BJ:277:THR:CG2	3:BJ:278:ALA:N	2.58	0.64
3:BK:189:SER:HB2	3:BK:243:THR:HB	1.78	0.64
3:BL:144:TYR:HE2	3:BL:146:ALA:N	1.94	0.64
3:BL:277:THR:CG2	3:BL:278:ALA:N	2.58	0.64
3:BN:76:PHE:CE2	3:BN:304:ASN:OD1	2.51	0.64
3:BN:189:SER:HB2	3:BN:243:THR:HB	1.77	0.64
3:BO:144:TYR:CE2	3:BO:146:ALA:CB	2.79	0.64
3:BO:257:ASN:C	3:BO:258:VAL:O	2.35	0.64
3:BQ:252:LEU:O	3:BQ:253:GLY:C	2.34	0.64
4:BX:584:VAL:HG23	4:BX:596:THR:CG2	2.27	0.64
4:BY:251:ASN:O	4:BY:252:GLU:HB2	1.97	0.64
4:BY:407:ALA:CB	4:BY:427:ARG:O	2.44	0.64
4:BZ:264:GLU:CB	4:BZ:473:LEU:CA	2.64	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:631:MET:CE	4:BZ:752:LEU:HD23	2.28	0.64
1:AA:265:LEU:CD2	1:AA:292:LEU:HD13	2.27	0.64
1:AB:523:VAL:O	1:AB:525:TYR:N	2.30	0.64
2:AC:4:LEU:HA	2:AC:7:LEU:HD12	1.79	0.64
2:AG:220:THR:O	2:AG:220:THR:CG2	2.39	0.64
3:BH:129:VAL:O	3:BH:131:PRO:N	2.30	0.64
3:BL:82:CYS:CA	3:BL:135:CYS:SG	2.84	0.64
3:BN:259:ALA:HB1	3:BN:285:MET:CE	2.27	0.64
3:BO:144:TYR:CE2	3:BO:146:ALA:N	2.66	0.64
4:BX:13:SER:O	4:BX:16:VAL:HG13	1.97	0.64
4:BY:2:ALA:HB3	4:BY:635:ASP:HA	1.78	0.64
4:BZ:557:LEU:CD2	4:BZ:621:LEU:HD21	2.27	0.64
4:BZ:619:LEU:HD11	4:BZ:712:VAL:CG1	2.28	0.64
1:AB:504:ASN:O	1:AB:507:MET:N	2.29	0.64
1:AB:701:GLN:O	1:AB:826:TYR:HB3	1.98	0.64
1:AB:770:SER:HB3	1:AB:772:ILE:HG22	1.77	0.64
2:AH:220:THR:O	2:AH:220:THR:CG2	2.39	0.64
2:AK:35:ASN:HB3	2:AK:65:LEU:HD22	1.79	0.64
3:BA:82:CYS:CA	3:BA:135:CYS:SG	2.85	0.64
3:BA:126:SER:CA	3:BA:223:LYS:HZ1	2.02	0.64
3:BH:125:ALA:CB	3:BH:223:LYS:CD	2.53	0.64
3:BJ:144:TYR:CE2	3:BJ:146:ALA:N	2.66	0.64
3:BL:125:ALA:CB	3:BL:223:LYS:CD	2.53	0.64
3:BL:144:TYR:CE2	3:BL:146:ALA:N	2.66	0.64
3:BM:255:ARG:HD2	3:BM:257:ASN:ND2	2.12	0.64
3:BN:170:ILE:HA	3:BN:175:TYR:OH	1.98	0.64
3:BQ:144:TYR:CE2	3:BQ:146:ALA:CA	2.80	0.64
4:BY:657:PRO:O	4:BY:659:ILE:HG22	1.96	0.64
1:AA:722:ASN:HB3	1:AA:824:LYS:HA	1.79	0.64
1:AB:419:PHE:HD2	1:AB:424:LEU:CD2	2.09	0.64
1:AB:486:ASP:O	1:AB:488:VAL:N	2.30	0.64
2:AC:93:ASP:O	2:AC:97:MET:HG3	1.96	0.64
2:AE:255:ARG:CD	3:BG:65:THR:HG21	2.27	0.64
2:AL:359:PRO:HA	4:BX:701:ILE:HD11	1.80	0.64
3:BG:285:MET:HE3	3:BG:306:ILE:HG23	1.80	0.64
3:BI:150:LEU:HD22	3:BJ:290:LYS:HA	1.78	0.64
3:BJ:257:ASN:HD21	3:BJ:313:ARG:CG	2.10	0.64
3:BK:175:TYR:OH	3:BK:237:LEU:HD22	1.96	0.64
3:BN:257:ASN:ND2	3:BN:315:ARG:HD2	2.12	0.64
3:BO:58:PRO:O	3:BO:59:ILE:CG1	2.44	0.64
3:BP:82:CYS:CA	3:BP:135:CYS:SG	2.85	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:162:GLU:CB	3:BP:253:GLY:O	2.46	0.64
4:BX:36:ASN:O	4:BX:37:LEU:HB3	1.97	0.64
4:BX:480:TYR:O	4:BX:483:PRO:HD3	1.97	0.64
4:BY:18:LEU:HD13	4:BZ:19:SER:HB3	1.77	0.64
4:BZ:267:TYR:HB3	4:BZ:361:ALA:HB1	1.80	0.64
1:AA:308:LEU:HD22	1:AA:668:ARG:HB3	1.78	0.64
1:AA:480:PHE:CD2	1:AA:493:LEU:HB3	2.32	0.64
1:AA:839:MET:HE3	1:AA:840:HIS:N	2.13	0.64
1:AB:663:TYR:O	1:AB:666:ARG:HG2	1.98	0.64
1:AB:745:ALA:O	1:AB:746:GLN:C	2.36	0.64
1:AB:825:VAL:CG1	1:AB:826:TYR:N	2.61	0.64
2:AD:123:LYS:HG3	2:AD:124:PHE:CE1	2.32	0.64
2:AH:11:LEU:O	2:AH:14:ALA:HB3	1.97	0.64
2:AI:340:LYS:HD3	2:AI:342:MET:CE	2.27	0.64
2:AN:11:LEU:O	2:AN:14:ALA:HB3	1.97	0.64
3:BA:258:VAL:CG2	3:BA:259:ALA:N	2.59	0.64
3:BG:263:VAL:HG12	3:BG:289:TRP:HB2	1.80	0.64
3:BH:144:TYR:CE2	3:BH:146:ALA:CA	2.80	0.64
3:BH:144:TYR:CE2	3:BH:146:ALA:N	2.66	0.64
3:BL:158:LEU:CD1	3:BL:224:LEU:HD21	2.27	0.64
3:BL:255:ARG:CD	3:BL:257:ASN:HD22	2.11	0.64
3:BN:144:TYR:CE2	3:BN:146:ALA:CB	2.79	0.64
3:BP:144:TYR:CE2	3:BP:146:ALA:CA	2.80	0.64
3:BP:150:LEU:CD2	3:BQ:290:LYS:HA	2.28	0.64
3:BQ:82:CYS:CA	3:BQ:135:CYS:SG	2.85	0.64
4:BX:523:LEU:O	4:BX:525:LEU:N	2.31	0.64
4:BY:2:ALA:HB2	4:BY:638:ALA:CB	2.28	0.64
4:BY:313:THR:HB	4:BY:358:ASP:HB3	1.78	0.64
4:BY:549:MET:C	4:BY:551:LYS:H	1.98	0.64
1:AA:178:PRO:CD	1:AA:256:PHE:HE2	2.10	0.64
1:AB:700:ALA:CB	1:AB:827:LYS:HB2	2.28	0.64
2:AE:203:ALA:CA	4:BY:775:ARG:NH2	2.59	0.64
2:AF:11:LEU:O	2:AF:14:ALA:HB3	1.97	0.64
2:AH:310:ASN:OD1	3:BI:305:GLN:NE2	2.30	0.64
2:AI:76:ASN:HB2	2:AM:74:ASP:OD2	1.97	0.64
2:AJ:244:ALA:HA	3:BM:68:ALA:HB3	1.80	0.64
3:BH:129:VAL:CG1	3:BH:130:ASP:H	2.09	0.64
3:BI:268:VAL:HG11	3:BJ:286:ARG:HH12	1.60	0.64
3:BJ:189:SER:HB2	3:BJ:243:THR:HB	1.78	0.64
3:BJ:258:VAL:CG2	3:BJ:259:ALA:N	2.59	0.64
3:BK:168:MET:HE1	3:BK:175:TYR:CD1	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:150:LEU:CD2	3:BM:290:LYS:HA	2.28	0.64
3:BM:189:SER:HB2	3:BM:243:THR:HB	1.78	0.64
3:BN:144:TYR:CE2	3:BN:146:ALA:N	2.66	0.64
3:BP:144:TYR:CE2	3:BP:146:ALA:N	2.66	0.64
3:BQ:263:VAL:HG12	3:BQ:289:TRP:HB2	1.78	0.64
4:BX:628:THR:HG22	4:BX:629:GLU:H	1.62	0.64
4:BY:590:ALA:HA	4:BY:594:VAL:CG2	2.28	0.64
4:BZ:443:ARG:O	4:BZ:444:VAL:CG2	2.46	0.64
4:BZ:546:THR:O	4:BZ:549:MET:HB2	1.97	0.64
1:AA:431:ILE:HA	1:AA:435:ILE:HD12	1.79	0.64
1:AB:111:ILE:HG12	1:AB:650:GLN:CD	2.17	0.64
1:AB:510:LEU:CD1	1:AB:537:SER:HA	2.28	0.64
1:AB:570:THR:HG22	1:AB:572:THR:H	1.62	0.64
2:AI:357:VAL:H	4:BX:734:TYR:C	2.01	0.64
2:AM:4:LEU:HA	2:AM:7:LEU:HD12	1.79	0.64
3:BG:313:ARG:HG2	3:BO:322:PHE:CE1	2.33	0.64
3:BH:82:CYS:CA	3:BH:135:CYS:SG	2.85	0.64
3:BI:285:MET:HE3	3:BI:306:ILE:HG23	1.80	0.64
3:BJ:144:TYR:CE2	3:BJ:146:ALA:CA	2.81	0.64
3:BO:144:TYR:CE2	3:BO:146:ALA:CA	2.80	0.64
4:BX:694:ARG:O	4:BX:696:GLU:N	2.31	0.64
4:BY:479:ASP:OD1	4:BY:480:TYR:N	2.30	0.64
4:BY:570:ASP:OD1	4:BY:570:ASP:N	2.31	0.64
4:BY:633:PHE:HB3	4:BY:671:ARG:HH11	1.63	0.64
1:AA:160:TYR:CE1	1:AA:633:LEU:HA	2.32	0.64
1:AA:663:TYR:O	1:AA:666:ARG:HG2	1.98	0.64
1:AB:200:VAL:HG23	1:AB:242:PRO:O	1.98	0.64
1:AB:481:ARG:NE	2:AI:65:LEU:CD1	2.61	0.64
2:AD:313:PRO:HD2	3:BH:279:PRO:HB2	1.79	0.64
2:AE:272:THR:N	4:BY:729:ASN:OD1	2.31	0.64
2:AF:4:LEU:HA	2:AF:7:LEU:HD12	1.79	0.64
2:AJ:171:PRO:HB3	3:BM:312:LYS:HZ2	1.62	0.64
3:BJ:144:TYR:C	3:BJ:144:TYR:CD2	2.66	0.64
3:BK:126:SER:CA	3:BK:223:LYS:NZ	2.55	0.64
3:BK:144:TYR:CE2	3:BK:146:ALA:CA	2.80	0.64
3:BN:144:TYR:HD2	3:BN:145:ASP:N	1.95	0.64
3:BP:312:LYS:O	3:BP:313:ARG:CB	2.31	0.64
4:BX:1:MET:HG3	4:BX:521:ALA:C	2.19	0.64
4:BX:369:ARG:HH12	4:BZ:333:LEU:HG	1.62	0.64
4:BY:46:ALA:N	4:BY:47:PRO:CD	2.61	0.64
4:BY:753:ARG:HH11	4:BY:753:ARG:HG3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:275:PRO:HB2	1:AA:278:ILE:CG1	2.28	0.64
1:AA:539:ARG:NH2	1:AA:588:ILE:O	2.31	0.64
1:AB:346:ILE:O	1:AB:349:MET:HB3	1.96	0.64
1:AB:418:MET:HB3	1:AB:567:HIS:NE2	2.13	0.64
1:AB:862:THR:HG22	1:AB:863:VAL:O	1.98	0.64
1:AB:868:ALA:O	1:AB:869:VAL:HG23	1.98	0.64
2:AI:239:ASN:HA	3:BL:67:TYR:CE2	2.32	0.64
3:BA:285:MET:HG3	3:BA:286:ARG:N	2.13	0.64
3:BA:311:SER:O	3:BA:312:LYS:HB2	1.98	0.64
3:BF:144:TYR:HD2	3:BF:145:ASP:N	1.94	0.64
3:BG:322:PHE:CZ	3:BO:325:ARG:HD2	2.33	0.64
3:BJ:162:GLU:HB3	3:BJ:253:GLY:C	2.18	0.64
3:BK:144:TYR:CE2	3:BK:146:ALA:N	2.65	0.64
3:BN:88:GLU:OE1	3:BN:143:LYS:HE3	1.98	0.64
3:BN:174:TYR:HB2	4:BX:490:VAL:HA	1.78	0.64
3:BN:310:MET:O	3:BN:311:SER:HB3	1.97	0.64
3:BO:255:ARG:HD2	3:BO:257:ASN:ND2	2.12	0.64
4:BX:538:ILE:HG22	4:BX:538:ILE:O	1.97	0.64
4:BX:584:VAL:O	4:BX:709:ALA:HB2	1.97	0.64
4:BZ:2:ALA:O	4:BZ:5:ILE:HG23	1.98	0.64
4:BZ:305:TYR:CE1	4:BZ:307:ARG:CG	2.81	0.64
4:BZ:443:ARG:O	4:BZ:444:VAL:HG23	1.97	0.64
4:BZ:595:SER:HB3	4:BZ:614:THR:HG22	1.80	0.64
1:AB:494:ASN:HB2	2:AI:69:THR:OG1	1.98	0.64
3:BF:162:GLU:HB3	3:BF:253:GLY:C	2.18	0.64
3:BL:165:CYS:SG	3:BL:321:ALA:HA	2.38	0.64
3:BL:286:ARG:HE	3:BN:270:ASP:HB3	1.63	0.64
3:BM:272:THR:CG2	3:BM:277:THR:HG22	2.26	0.64
4:BX:10:LEU:HD21	4:BX:552:PHE:HD2	1.63	0.64
4:BX:66:ASP:OD2	4:BX:207:ILE:HB	1.98	0.64
4:BX:721:ILE:HG22	4:BX:722:ILE:HG23	1.80	0.64
4:BY:307:ARG:NH2	4:BY:312:VAL:CG2	2.60	0.64
4:BY:640:VAL:O	4:BY:643:THR:HB	1.97	0.64
1:AA:698:LYS:H	1:AA:765:PHE:HE2	1.41	0.63
1:AA:727:LEU:HD12	1:AA:727:LEU:O	1.98	0.63
1:AB:166:PHE:CE2	1:AB:689:MET:HA	2.33	0.63
1:AB:169:LEU:O	1:AB:173:VAL:HG23	1.98	0.63
1:AB:854:LEU:O	1:AB:856:ALA:N	2.32	0.63
2:AH:23:LEU:HD23	2:AH:24:TYR:N	2.13	0.63
3:BH:69:ASN:HD22	5:C:1:NAG:C1	2.07	0.63
3:BK:258:VAL:CG2	3:BK:259:ALA:N	2.59	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:132:GLN:CA	3:BL:318:ASN:HB3	2.25	0.63
3:BL:144:TYR:CE2	3:BL:146:ALA:CA	2.81	0.63
3:BM:168:MET:HE1	3:BM:175:TYR:CD1	2.33	0.63
3:BN:256:GLU:HG2	3:BN:314:SER:OG	1.96	0.63
3:BP:144:TYR:CZ	3:BP:146:ALA:HB2	2.33	0.63
3:BP:257:ASN:O	3:BP:258:VAL:C	2.33	0.63
4:BY:263:LYS:CD	4:BY:477:ASN:CG	2.61	0.63
4:BY:472:SER:O	4:BY:473:LEU:HD23	1.98	0.63
1:AA:116:VAL:CG1	1:AA:117:LYS:N	2.62	0.63
1:AA:286:LEU:N	1:AA:286:LEU:HD23	2.13	0.63
1:AA:520:THR:O	1:AA:521:MET:HE3	1.97	0.63
1:AA:554:TYR:CZ	1:AA:558:MET:HE2	2.33	0.63
1:AB:349:MET:O	1:AB:353:LEU:HB2	1.98	0.63
1:AB:432:ILE:HD13	1:AB:436:ILE:HD11	1.80	0.63
1:AB:507:MET:HB3	2:AJ:69:THR:CB	2.28	0.63
2:AE:23:LEU:HD23	2:AE:24:TYR:N	2.13	0.63
2:AH:116:LEU:HD12	2:AH:119:LEU:HB2	1.80	0.63
2:AK:4:LEU:HA	2:AK:7:LEU:HD12	1.80	0.63
2:AL:4:LEU:HA	2:AL:7:LEU:HD12	1.79	0.63
2:AL:310:ASN:OD1	3:BQ:305:GLN:NE2	2.30	0.63
2:AO:93:ASP:O	2:AO:97:MET:HG3	1.98	0.63
3:BG:68:ALA:CA	4:BY:510:GLN:HE22	2.11	0.63
3:BJ:126:SER:CA	3:BJ:223:LYS:HZ1	1.98	0.63
3:BJ:257:ASN:C	3:BJ:258:VAL:O	2.35	0.63
3:BN:144:TYR:CE2	3:BN:146:ALA:CA	2.80	0.63
3:BN:144:TYR:CZ	3:BN:146:ALA:HB2	2.33	0.63
3:BO:54:GLY:O	3:BO:56:ASN:N	2.24	0.63
3:BO:55:ILE:HG23	3:BO:322:PHE:H	1.64	0.63
3:BP:60:THR:CG2	3:BP:61:GLY:N	2.60	0.63
4:BX:511:GLU:HB3	4:BZ:576:SER:OG	1.97	0.63
4:BX:620:ARG:O	4:BX:622:LYS:N	2.30	0.63
4:BZ:584:VAL:N	4:BZ:596:THR:HG21	2.13	0.63
4:BZ:633:PHE:HB3	4:BZ:671:ARG:NH1	2.14	0.63
1:AB:178:PRO:HD2	1:AB:256:PHE:CD2	2.33	0.63
2:AD:75:ALA:HB3	2:AL:76:ASN:OD1	1.98	0.63
2:AI:239:ASN:CB	3:BL:67:TYR:CZ	2.80	0.63
2:AK:23:LEU:HD23	2:AK:24:TYR:N	2.13	0.63
2:AL:310:ASN:HB3	3:BP:180:GLU:OE1	1.98	0.63
2:AN:4:LEU:HA	2:AN:7:LEU:HD12	1.80	0.63
3:BI:162:GLU:HB2	3:BI:253:GLY:O	1.99	0.63
3:BK:310:MET:O	3:BK:311:SER:CB	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BQ:144:TYR:CE2	3:BQ:146:ALA:N	2.66	0.63
3:BQ:165:CYS:CB	3:BQ:247:ARG:HG2	2.24	0.63
3:BQ:267:ASP:H	3:BQ:286:ARG:NH1	1.95	0.63
4:BY:592:THR:HA	4:BY:615:ILE:HD11	1.81	0.63
4:BZ:13:SER:O	4:BZ:16:VAL:HG13	1.98	0.63
4:BZ:584:VAL:O	4:BZ:709:ALA:HB2	1.97	0.63
1:AA:133:VAL:O	1:AA:134:TYR:HD2	1.82	0.63
1:AA:366:PHE:N	1:AA:366:PHE:CD1	2.64	0.63
1:AA:480:PHE:HD2	1:AA:493:LEU:HB3	1.63	0.63
1:AA:771:VAL:HG13	1:AA:772:ILE:N	2.14	0.63
1:AA:774:LEU:HD11	1:AA:820:THR:O	1.99	0.63
2:AD:299:ASN:OD1	3:BF:70:SER:O	2.16	0.63
2:AH:239:ASN:HB3	3:BK:67:TYR:CZ	2.33	0.63
3:BG:277:THR:CG2	3:BG:278:ALA:N	2.58	0.63
3:BH:149:GLN:HG3	3:BH:150:LEU:N	2.13	0.63
3:BH:311:SER:O	3:BH:312:LYS:HB2	1.98	0.63
3:BI:165:CYS:CA	3:BI:248:ASN:O	2.46	0.63
3:BL:69:ASN:OD1	4:BX:507:ALA:HA	1.99	0.63
3:BM:125:ALA:CB	3:BM:223:LYS:CD	2.53	0.63
3:BN:129:VAL:C	3:BN:131:PRO:CD	2.67	0.63
3:BO:150:LEU:HD12	3:BP:288:ASN:OD1	1.98	0.63
3:BO:290:LYS:HG2	3:BQ:150:LEU:HD21	1.79	0.63
4:BX:4:LEU:HD12	4:BX:524:PRO:HB3	1.80	0.63
4:BX:592:THR:HA	4:BX:615:ILE:HD11	1.78	0.63
4:BX:644:LYS:C	4:BX:646:ASP:H	2.01	0.63
4:BX:724:PHE:O	4:BX:725:LYS:C	2.36	0.63
4:BY:48:VAL:HB	4:BZ:392:GLY:HA3	1.79	0.63
4:BY:301:TYR:CD2	4:BY:303:TYR:CD2	2.86	0.63
4:BY:679:ASP:HB3	4:BY:695:VAL:CG1	2.24	0.63
4:BY:693:TYR:OH	4:BY:724:PHE:CB	2.46	0.63
1:AA:181:LEU:HG	1:AA:182:LEU:N	2.09	0.63
1:AA:262:VAL:HG23	1:AA:262:VAL:O	1.99	0.63
1:AB:445:MET:O	1:AB:447:TYR:N	2.30	0.63
1:AB:497:ILE:HG12	2:AI:24:TYR:OH	1.98	0.63
1:AB:516:GLN:HG3	1:AB:516:GLN:O	1.97	0.63
2:AD:4:LEU:HA	2:AD:7:LEU:HD12	1.79	0.63
2:AE:270:ILE:CA	4:BY:728:LYS:HE3	2.29	0.63
2:AK:268:GLN:CD	4:BX:700:GLU:CG	2.63	0.63
2:AN:116:LEU:HD12	2:AN:119:LEU:HB2	1.80	0.63
3:BF:131:PRO:O	3:BF:133:LEU:N	2.30	0.63
3:BH:144:TYR:CZ	3:BH:146:ALA:HB2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:132:GLN:HA	3:BI:319:SER:HB2	1.80	0.63
3:BJ:285:MET:HE3	3:BJ:306:ILE:HG23	1.80	0.63
3:BK:144:TYR:CZ	3:BK:146:ALA:HB2	2.34	0.63
3:BL:270:ASP:O	3:BL:272:THR:N	2.31	0.63
3:BM:150:LEU:CD2	3:BN:290:LYS:HA	2.27	0.63
3:BN:163:TRP:O	3:BN:323:TYR:HB2	1.98	0.63
3:BO:255:ARG:CD	3:BO:257:ASN:HD22	2.12	0.63
3:BP:128:SER:HB2	3:BP:155:LEU:CD1	2.23	0.63
4:BX:71:PRO:C	4:BX:72:THR:HG23	2.19	0.63
4:BZ:267:TYR:CB	4:BZ:361:ALA:HB1	2.29	0.63
1:AA:601:PHE:HD1	1:AA:601:PHE:H	1.47	0.63
1:AB:601:PHE:HD1	1:AB:601:PHE:H	1.47	0.63
2:AE:116:LEU:HD12	2:AE:119:LEU:HB2	1.80	0.63
2:AK:142:GLN:O	2:AL:145:ARG:HD2	1.98	0.63
2:AN:23:LEU:HD23	2:AN:24:TYR:N	2.13	0.63
2:AN:255:ARG:NH1	3:BP:65:THR:OG1	2.31	0.63
3:BJ:257:ASN:HD21	3:BJ:313:ARG:NE	1.92	0.63
3:BK:128:SER:CB	3:BK:155:LEU:CD1	2.63	0.63
3:BL:266:SER:CA	3:BL:286:ARG:HH12	2.11	0.63
3:BM:263:VAL:HG12	3:BM:289:TRP:HB2	1.81	0.63
3:BN:173:TYR:HA	4:BX:489:THR:OG1	1.99	0.63
4:BX:35:ILE:HG23	4:BY:482:THR:C	2.18	0.63
4:BX:568:LEU:HD12	4:BY:520:LEU:HD13	1.80	0.63
4:BZ:668:ILE:HG21	4:BZ:671:ARG:HD3	1.79	0.63
1:AB:635:GLN:NE2	1:AB:740:ARG:NH2	2.46	0.63
1:AB:785:GLN:O	1:AB:787:VAL:N	2.32	0.63
2:AH:54:LEU:HD12	2:AH:55:PRO:HD2	1.79	0.63
2:AH:246:THR:HG23	3:BK:67:TYR:CE2	2.32	0.63
2:AJ:220:THR:O	2:AJ:220:THR:CG2	2.39	0.63
2:AM:346:VAL:HG21	2:AM:385:VAL:HG13	1.81	0.63
3:BF:126:SER:HA	3:BF:223:LYS:HZ2	1.63	0.63
3:BF:144:TYR:CE2	3:BF:146:ALA:N	2.66	0.63
3:BJ:170:ILE:HG12	3:BJ:175:TYR:OH	1.99	0.63
3:BL:137:TYR:OH	3:BL:312:LYS:CG	2.47	0.63
3:BM:170:ILE:HG12	3:BM:175:TYR:OH	1.99	0.63
3:BN:57:LEU:HD23	3:BP:56:ASN:HB3	1.80	0.63
4:BX:33:VAL:CG2	4:BY:36:ASN:HB3	2.28	0.63
4:BY:261:LEU:CD1	4:BY:478:ASP:HB2	2.29	0.63
4:BY:595:SER:HB3	4:BY:614:THR:HG22	1.80	0.63
4:BZ:585:GLY:HA3	4:BZ:709:ALA:CB	2.27	0.63
4:BZ:724:PHE:O	4:BZ:725:LYS:C	2.37	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:374:ALA:HB1	1:AB:580:SER:CB	2.29	0.63
1:AB:422:GLU:O	1:AB:425:VAL:N	2.32	0.63
1:AB:743:ASP:HB2	1:AB:790:ARG:HH12	1.63	0.63
2:AE:220:THR:O	2:AE:220:THR:CG2	2.39	0.63
2:AM:116:LEU:HD12	2:AM:119:LEU:HB2	1.81	0.63
2:AO:346:VAL:HG21	2:AO:385:VAL:HG13	1.81	0.63
3:BH:255:ARG:HD2	3:BH:257:ASN:HD22	1.62	0.63
3:BI:144:TYR:CE2	3:BI:146:ALA:CA	2.80	0.63
3:BI:312:LYS:O	3:BI:313:ARG:HG2	1.99	0.63
3:BK:170:ILE:HG12	3:BK:175:TYR:OH	1.99	0.63
3:BN:252:LEU:HG	3:BN:253:GLY:N	2.12	0.63
3:BO:144:TYR:CZ	3:BO:146:ALA:HB2	2.33	0.63
3:BP:96:ASN:HD22	4:BX:39:PRO:HB2	1.64	0.63
3:BQ:76:PHE:CE2	3:BQ:304:ASN:OD1	2.52	0.63
4:BX:45:TYR:HH	4:BX:474:VAL:HA	1.64	0.63
4:BY:1:MET:HG3	4:BY:521:ALA:C	2.19	0.63
4:BY:624:MET:O	4:BY:626:THR:N	2.27	0.63
4:BZ:441:ARG:N	4:BZ:441:ARG:CD	2.62	0.63
1:AA:124:ARG:CZ	1:AA:203:GLU:HB2	2.29	0.63
1:AA:597:PRO:HB3	1:AA:860:ALA:HB3	1.80	0.63
1:AB:119:GLN:CG	1:AB:181:LEU:HD21	2.27	0.63
1:AB:239:VAL:HG23	1:AB:844:SER:O	1.99	0.63
1:AB:260:GLN:O	1:AB:262:VAL:HG23	1.99	0.63
1:AB:404:LEU:HD21	1:AB:430:ALA:CB	2.28	0.63
1:AB:408:MET:HB3	1:AB:471:TRP:CH2	2.34	0.63
1:AB:473:HIS:CD2	1:AB:477:ASN:HD22	2.17	0.63
1:AB:518:PHE:CB	1:AB:519:PRO:CD	2.75	0.63
1:AB:638:MET:HE1	1:AB:666:ARG:HH12	1.64	0.63
2:AJ:116:LEU:HD12	2:AJ:119:LEU:HB2	1.81	0.63
2:AJ:171:PRO:HB3	3:BM:312:LYS:NZ	2.14	0.63
3:BF:257:ASN:C	3:BF:258:VAL:O	2.35	0.63
3:BK:261:ILE:CG1	3:BK:285:MET:HG3	2.28	0.63
3:BO:150:LEU:CD2	3:BP:290:LYS:HA	2.29	0.63
3:BQ:125:ALA:C	3:BQ:223:LYS:HZ2	2.01	0.63
3:BQ:144:TYR:CZ	3:BQ:146:ALA:HB2	2.33	0.63
3:BQ:257:ASN:C	3:BQ:258:VAL:O	2.35	0.63
4:BX:262:TRP:HB2	4:BX:473:LEU:CD2	2.29	0.63
4:BX:617:ARG:HE	4:BX:620:ARG:NH2	1.97	0.63
4:BY:2:ALA:O	4:BY:5:ILE:HG23	1.99	0.63
4:BZ:549:MET:O	4:BZ:551:LYS:N	2.32	0.63
4:BZ:644:LYS:C	4:BZ:646:ASP:H	2.02	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:763:LEU:O	1:AB:764:PRO:O	2.17	0.62
2:AH:163:SER:HB2	3:BK:62:SER:HA	1.81	0.62
2:AJ:163:SER:HB2	3:BM:62:SER:HA	1.78	0.62
2:AJ:313:PRO:HD2	3:BM:279:PRO:CB	2.29	0.62
3:BA:123:ASP:OD1	3:BA:126:SER:CB	2.47	0.62
3:BA:128:SER:CB	3:BA:155:LEU:CD1	2.64	0.62
3:BF:269:LEU:HD23	3:BG:286:ARG:HH22	1.63	0.62
3:BM:311:SER:O	3:BM:312:LYS:HB2	1.98	0.62
4:BX:33:VAL:CG2	4:BY:36:ASN:ND2	2.61	0.62
4:BX:755:PHE:HB3	4:BX:763:ILE:CD1	2.29	0.62
4:BY:347:GLU:C	4:BY:349:SER:H	2.01	0.62
1:AA:275:PRO:HG2	1:AA:278:ILE:CD1	2.29	0.62
1:AA:285:ILE:HD11	1:AA:861:ASP:HB3	1.80	0.62
1:AA:401:TYR:HA	1:AA:404:LEU:CD1	2.28	0.62
1:AB:548:ARG:HH11	1:AB:878:ASN:H	1.46	0.62
2:AE:244:ALA:HA	3:BF:68:ALA:HB2	1.79	0.62
2:AH:4:LEU:HA	2:AH:7:LEU:HD12	1.80	0.62
2:AI:53:ASN:ND2	4:BX:697:THR:CA	2.34	0.62
2:AK:116:LEU:HD12	2:AK:119:LEU:HB2	1.80	0.62
2:AN:299:ASN:OD1	3:BP:70:SER:O	2.17	0.62
3:BH:129:VAL:HG12	3:BH:130:ASP:H	1.63	0.62
3:BL:144:TYR:CZ	3:BL:146:ALA:HB2	2.33	0.62
3:BN:87:THR:HG1	3:BN:122:THR:HG22	1.62	0.62
3:BQ:78:THR:HG22	3:BQ:78:THR:O	1.99	0.62
3:BQ:311:SER:O	3:BQ:312:LYS:HB2	1.98	0.62
4:BY:523:LEU:O	4:BY:525:LEU:N	2.30	0.62
4:BZ:592:THR:HA	4:BZ:615:ILE:HD11	1.80	0.62
1:AA:226:ALA:O	1:AA:228:MET:N	2.29	0.62
1:AA:415:PRO:HD2	1:AA:480:PHE:HE1	1.64	0.62
1:AA:506:LEU:HD21	1:AA:543:LEU:C	2.20	0.62
1:AA:771:VAL:O	1:AA:772:ILE:C	2.37	0.62
1:AB:163:ARG:HB3	1:AB:631:LEU:HG	1.81	0.62
1:AB:523:VAL:C	1:AB:525:TYR:N	2.53	0.62
2:AD:238:ILE:HG23	3:BH:63:MET:CE	2.29	0.62
2:AE:255:ARG:CZ	3:BG:65:THR:CG2	2.77	0.62
2:AL:205:ILE:HG12	2:AL:295:MET:HG3	1.82	0.62
3:BI:123:ASP:OD1	3:BI:126:SER:CB	2.47	0.62
3:BM:252:LEU:C	3:BM:253:GLY:O	2.37	0.62
3:BO:208:LEU:HD12	4:BY:480:TYR:CD1	2.33	0.62
4:BX:582:ARG:NE	4:BX:596:THR:HG22	2.13	0.62
4:BY:27:SER:HB3	4:BZ:350:TYR:HE2	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:595:SER:OG	4:BY:618:ARG:NH1	2.32	0.62
4:BZ:622:LYS:O	4:BZ:623:GLU:C	2.38	0.62
1:AA:158:GLY:N	1:AA:762:ALA:HB3	2.13	0.62
1:AA:403:SER:HA	1:AA:582:THR:OG1	1.98	0.62
1:AA:405:ILE:HG21	1:AA:536:LEU:HG	1.81	0.62
1:AA:658:PRO:CG	1:AB:348:LYS:HG2	2.28	0.62
1:AB:498:ARG:HA	1:AB:502:VAL:HB	1.81	0.62
1:AB:875:ARG:HB3	1:AB:878:ASN:HD22	1.64	0.62
2:AC:205:ILE:HG12	2:AC:295:MET:HG3	1.81	0.62
2:AD:116:LEU:HD12	2:AD:119:LEU:HB2	1.81	0.62
2:AF:205:ILE:HG12	2:AF:295:MET:HG3	1.82	0.62
2:AI:54:LEU:HD12	2:AI:55:PRO:HD2	1.81	0.62
3:BA:130:ASP:N	3:BA:131:PRO:HD3	2.14	0.62
3:BF:125:ALA:C	3:BF:223:LYS:HZ2	2.03	0.62
3:BL:54:GLY:O	3:BL:55:ILE:HG13	1.98	0.62
3:BN:123:ASP:OD1	3:BN:126:SER:CB	2.47	0.62
3:BN:312:LYS:O	3:BN:312:LYS:CG	2.37	0.62
4:BX:519:ASP:O	4:BX:521:ALA:N	2.28	0.62
4:BX:631:MET:CE	4:BX:752:LEU:HD23	2.28	0.62
4:BY:613:SER:O	4:BY:616:SER:N	2.30	0.62
4:BZ:272:THR:HG21	4:BZ:305:TYR:CD1	2.32	0.62
1:AA:420:ILE:HD11	1:AA:422:GLU:CG	2.28	0.62
1:AA:625:ILE:O	1:AA:628:ALA:HB3	1.98	0.62
1:AB:176:GLU:O	1:AB:178:PRO:HD3	2.00	0.62
1:AB:309:ASN:HA	1:AB:311:HIS:CD2	2.34	0.62
2:AC:346:VAL:HG21	2:AC:385:VAL:HG13	1.81	0.62
2:AD:346:VAL:HG21	2:AD:385:VAL:HG13	1.81	0.62
2:AE:255:ARG:CZ	3:BG:65:THR:HG21	2.29	0.62
2:AF:255:ARG:CZ	3:BJ:65:THR:HG1	2.11	0.62
2:AI:243:GLY:O	3:BL:67:TYR:HA	1.99	0.62
2:AJ:38:ILE:HG22	2:AJ:42:ASN:ND2	2.15	0.62
2:AL:165:THR:CG2	3:BP:58:PRO:CB	2.62	0.62
2:AL:313:PRO:HD2	3:BP:279:PRO:HB2	1.78	0.62
3:BH:255:ARG:HD2	3:BH:257:ASN:ND2	2.15	0.62
3:BI:144:TYR:CZ	3:BI:146:ALA:HB2	2.33	0.62
3:BJ:123:ASP:OD1	3:BJ:126:SER:CB	2.47	0.62
3:BL:247:ARG:HD3	3:BL:321:ALA:CB	2.30	0.62
3:BM:125:ALA:C	3:BM:223:LYS:HZ2	2.02	0.62
3:BM:128:SER:CA	3:BM:155:LEU:HD13	2.30	0.62
3:BN:128:SER:CB	3:BN:155:LEU:CD1	2.67	0.62
3:BO:315:ARG:HH11	3:BO:323:TYR:HD2	1.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BQ:255:ARG:HD2	3:BQ:257:ASN:HD22	1.63	0.62
4:BY:350:TYR:HB3	4:BY:427:ARG:HG3	1.80	0.62
4:BY:419:VAL:CG1	4:BY:420:SER:H	2.13	0.62
4:BY:616:SER:O	4:BY:620:ARG:HG2	1.98	0.62
1:AA:193:SER:HB2	1:AA:226:ALA:O	1.99	0.62
1:AA:571:LEU:CD1	1:AB:531:ARG:NH1	2.43	0.62
1:AB:715:ASP:OD2	1:AB:829:ILE:HD12	1.99	0.62
2:AD:27:VAL:O	2:AD:31:ILE:HG12	1.99	0.62
2:AE:255:ARG:NH1	3:BG:65:THR:HG21	2.13	0.62
2:AJ:171:PRO:HB3	3:BM:312:LYS:HD2	1.82	0.62
3:BF:154:GLU:CG	3:BG:290:LYS:NZ	2.55	0.62
3:BF:172:LEU:HD23	4:BZ:466:GLY:HA2	1.77	0.62
3:BF:252:LEU:O	3:BF:253:GLY:C	2.37	0.62
3:BG:126:SER:HA	3:BG:223:LYS:HZ2	1.63	0.62
3:BH:123:ASP:OD1	3:BH:126:SER:CB	2.47	0.62
3:BH:178:THR:H	3:BH:182:ASN:HD22	1.45	0.62
3:BI:161:ASN:OD1	3:BI:271:ILE:HG21	1.99	0.62
3:BJ:144:TYR:CE2	3:BJ:146:ALA:CB	2.79	0.62
3:BK:257:ASN:C	3:BK:258:VAL:O	2.35	0.62
4:BX:585:GLY:HA3	4:BX:709:ALA:CB	2.29	0.62
4:BY:270:ASP:HB2	4:BY:307:ARG:CB	2.30	0.62
4:BY:633:PHE:HB3	4:BY:671:ARG:NH1	2.15	0.62
4:BY:701:ILE:HG12	4:BY:702:PRO:CD	2.24	0.62
1:AA:510:LEU:CB	1:AA:540:LEU:HD13	2.30	0.62
1:AA:526:LYS:O	1:AA:530:GLN:HG2	2.00	0.62
1:AA:556:THR:O	1:AA:557:LEU:C	2.38	0.62
1:AB:456:PHE:CE2	1:AB:471:TRP:CZ3	2.87	0.62
2:AD:38:ILE:HD12	2:AD:65:LEU:CD2	2.30	0.62
2:AE:5:TYR:CE2	2:AE:131:ASN:HA	2.35	0.62
2:AE:203:ALA:HB1	4:BY:775:ARG:HH11	1.57	0.62
2:AI:168:ARG:HH11	3:BJ:53:TYR:HE2	1.42	0.62
3:BG:129:VAL:HG13	3:BG:187:MET:SD	2.39	0.62
3:BI:84:TYR:CD2	3:BI:127:PHE:HE1	2.17	0.62
3:BK:158:LEU:CD1	3:BK:224:LEU:HD21	2.27	0.62
4:BX:66:ASP:CG	4:BX:286:GLY:CA	2.67	0.62
4:BX:541:ALA:O	4:BX:545:ALA:N	2.30	0.62
4:BY:572:ALA:HB2	4:BZ:516:GLN:CB	2.27	0.62
4:BZ:519:ASP:O	4:BZ:521:ALA:N	2.24	0.62
4:BZ:665:GLU:HG3	4:BZ:666:LYS:HG3	1.80	0.62
1:AA:405:ILE:CG2	1:AA:536:LEU:HG	2.30	0.62
1:AA:660:ASP:O	1:AA:661:GLN:C	2.38	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:764:PRO:O	1:AA:797:PRO:HD2	2.00	0.62
1:AB:295:THR:HG22	1:AB:849:THR:HG22	1.82	0.62
1:AB:305:GLN:NE2	1:AB:564:ASN:ND2	2.47	0.62
1:AB:465:ASN:ND2	1:AB:468:VAL:HG23	2.15	0.62
2:AE:272:THR:HG22	4:BY:729:ASN:OD1	1.99	0.62
2:AI:346:VAL:HG21	2:AI:385:VAL:HG13	1.81	0.62
2:AJ:130:ASP:HA	2:AK:17:LYS:HG2	1.82	0.62
2:AJ:238:ILE:HG23	3:BM:63:MET:CE	2.29	0.62
2:AK:168:ARG:HA	3:BP:51:GLN:N	2.14	0.62
2:AN:5:TYR:CE2	2:AN:131:ASN:HA	2.35	0.62
2:AO:205:ILE:HG12	2:AO:295:MET:HG3	1.82	0.62
3:BG:123:ASP:OD1	3:BG:126:SER:CB	2.47	0.62
3:BL:128:SER:HB3	3:BL:224:LEU:HB2	1.82	0.62
3:BL:172:LEU:CB	3:BL:173:TYR:CE1	2.83	0.62
3:BM:123:ASP:OD1	3:BM:126:SER:CB	2.47	0.62
3:BM:128:SER:OG	3:BM:224:LEU:HD13	2.00	0.62
3:BO:170:ILE:HG12	3:BO:175:TYR:OH	1.99	0.62
3:BO:268:VAL:HG23	3:BP:266:SER:CB	2.30	0.62
4:BY:580:SER:C	4:BY:597:GLN:HG2	2.20	0.62
4:BY:692:ALA:C	4:BY:693:TYR:CD1	2.73	0.62
4:BZ:581:ILE:CG2	4:BZ:597:GLN:HB3	2.29	0.62
1:AA:217:THR:O	1:AA:217:THR:HG22	2.00	0.62
1:AA:246:HIS:CD2	1:AA:248:ILE:H	2.17	0.62
2:AE:203:ALA:HA	4:BY:775:ARG:NH2	2.15	0.62
2:AJ:299:ASN:CG	3:BN:71:THR:OG1	2.37	0.62
2:AL:346:VAL:HG21	2:AL:385:VAL:HG13	1.81	0.62
2:AL:358:GLY:O	4:BX:701:ILE:CD1	2.47	0.62
2:AM:255:ARG:HD2	3:BO:65:THR:OG1	1.95	0.62
2:AN:205:ILE:O	4:BX:577:ARG:NH2	2.32	0.62
2:AN:346:VAL:HG21	2:AN:385:VAL:HG13	1.81	0.62
3:BF:144:TYR:CZ	3:BF:146:ALA:HB2	2.33	0.62
3:BJ:144:TYR:CZ	3:BJ:146:ALA:HB2	2.33	0.62
3:BL:137:TYR:OH	3:BL:312:LYS:HG2	2.00	0.62
3:BN:158:LEU:CD1	3:BN:224:LEU:HD21	2.27	0.62
3:BO:121:TYR:CB	3:BO:127:PHE:HB2	2.30	0.62
3:BP:170:ILE:HG12	3:BP:175:TYR:OH	1.99	0.62
4:BX:33:VAL:HG23	4:BY:36:ASN:CB	2.28	0.62
4:BX:762:ILE:HA	4:BX:765:ASN:ND2	2.14	0.62
4:BY:50:TRP:O	4:BY:356:TRP:CB	2.48	0.62
4:BY:582:ARG:H	4:BY:597:GLN:HB2	1.64	0.62
4:BZ:518:ILE:O	4:BZ:521:ALA:HB3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:265:LEU:HG	1:AA:292:LEU:HD12	1.81	0.62
1:AA:314:PHE:HZ	1:AA:664:ARG:HG3	1.64	0.62
1:AB:378:CYS:HB2	1:AB:580:SER:HB2	1.80	0.62
1:AB:481:ARG:HG3	1:AB:481:ARG:NH1	2.12	0.62
2:AD:35:ASN:OD1	2:AD:65:LEU:HD22	2.00	0.62
2:AD:171:PRO:HB3	3:BH:312:LYS:CE	2.29	0.62
2:AF:116:LEU:HD12	2:AF:119:LEU:HB2	1.82	0.62
2:AG:27:VAL:O	2:AG:31:ILE:HG12	1.99	0.62
2:AG:255:ARG:CZ	3:BK:65:THR:HG1	2.13	0.62
2:AH:164:PHE:O	3:BK:61:GLY:N	2.32	0.62
2:AI:116:LEU:HD12	2:AI:119:LEU:HB2	1.82	0.62
2:AM:27:VAL:O	2:AM:31:ILE:HG12	1.99	0.62
3:BF:285:MET:HE3	3:BF:306:ILE:HG23	1.81	0.62
3:BG:121:TYR:CB	3:BG:127:PHE:HB2	2.30	0.62
3:BH:255:ARG:CD	3:BH:257:ASN:HD22	2.13	0.62
3:BJ:158:LEU:CD1	3:BJ:224:LEU:HD21	2.27	0.62
3:BL:150:LEU:HD21	3:BM:290:LYS:CG	2.29	0.62
3:BQ:310:MET:CG	3:BQ:311:SER:N	2.58	0.62
4:BX:259:THR:OG1	4:BY:263:LYS:HG3	1.99	0.62
4:BY:681:VAL:HG23	4:BY:693:TYR:HB2	1.81	0.62
4:BZ:268:ASN:O	4:BZ:269:ARG:HB2	1.99	0.62
1:AA:527:ARG:HH11	1:AA:527:ARG:HG3	1.64	0.61
1:AA:545:ASP:O	1:AA:548:ARG:N	2.33	0.61
1:AA:642:VAL:O	1:AA:646:LEU:HG	1.99	0.61
1:AB:195:ASP:O	1:AB:196:ALA:C	2.38	0.61
1:AB:534:LEU:HA	1:AB:537:SER:OG	1.99	0.61
1:AB:654:ILE:O	1:AB:656:ARG:N	2.33	0.61
1:AB:712:LEU:HB3	1:AB:819:PRO:HB2	1.81	0.61
1:AB:833:PHE:CZ	1:AB:835:PHE:HA	2.35	0.61
2:AC:24:TYR:O	2:AC:27:VAL:HG22	2.00	0.61
2:AG:116:LEU:HD12	2:AG:119:LEU:HB2	1.81	0.61
2:AH:38:ILE:CD1	2:AH:64:GLY:O	2.48	0.61
2:AJ:255:ARG:NH2	3:BN:67:TYR:HE1	1.97	0.61
3:BF:126:SER:CA	3:BF:223:LYS:NZ	2.55	0.61
3:BK:174:TYR:CD1	3:BK:198:LEU:HD11	2.34	0.61
4:BY:254:ILE:HG22	4:BY:255:VAL:H	1.65	0.61
4:BY:617:ARG:HG3	4:BY:620:ARG:NH2	2.10	0.61
4:BZ:523:LEU:O	4:BZ:525:LEU:N	2.33	0.61
4:BZ:574:SER:O	4:BZ:576:SER:N	2.32	0.61
1:AA:151:LYS:O	1:AA:152:ARG:HB2	1.99	0.61
1:AB:107:LYS:O	1:AB:111:ILE:HG13	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:231:ARG:HB3	1:AB:240:ASN:HB2	1.82	0.61
1:AB:502:VAL:O	1:AB:504:ASN:N	2.28	0.61
1:AB:730:PHE:CD1	1:AB:730:PHE:N	2.68	0.61
2:AF:346:VAL:HG21	2:AF:385:VAL:HG13	1.81	0.61
2:AI:205:ILE:HG12	2:AI:295:MET:HG3	1.82	0.61
2:AK:5:TYR:CE2	2:AK:131:ASN:HA	2.35	0.61
2:AL:54:LEU:HD12	2:AL:55:PRO:HD2	1.81	0.61
3:BK:123:ASP:OD1	3:BK:126:SER:CB	2.47	0.61
3:BK:252:LEU:O	3:BK:253:GLY:C	2.36	0.61
3:BL:123:ASP:OD1	3:BL:126:SER:CB	2.47	0.61
3:BQ:123:ASP:OD1	3:BQ:126:SER:CB	2.47	0.61
4:BX:724:PHE:O	4:BX:727:LEU:N	2.32	0.61
4:BZ:264:GLU:HB2	4:BZ:472:SER:O	2.00	0.61
4:BZ:584:VAL:HG23	4:BZ:596:THR:HG23	1.82	0.61
4:BZ:584:VAL:H	4:BZ:596:THR:HG21	1.65	0.61
4:BZ:631:MET:SD	4:BZ:749:PRO:HA	2.40	0.61
1:AA:529:ILE:O	1:AA:533:ILE:HG13	2.01	0.61
1:AB:94:THR:O	1:AB:316:SER:HB3	2.01	0.61
1:AB:183:LEU:HG	1:AB:844:SER:CB	2.30	0.61
1:AB:442:MET:CE	1:AB:463:ILE:HG12	2.30	0.61
1:AB:478:ASN:OD1	1:AB:478:ASN:O	2.18	0.61
1:AB:518:PHE:HB3	1:AB:519:PRO:HD2	1.83	0.61
1:AB:530:GLN:HA	1:AB:533:ILE:HD12	1.82	0.61
1:AB:735:LEU:HD21	1:AB:759:LEU:HB3	1.80	0.61
2:AF:238:ILE:HG23	3:BI:63:MET:HE3	1.82	0.61
2:AG:346:VAL:HG21	2:AG:385:VAL:HG13	1.81	0.61
2:AM:35:ASN:OD1	2:AM:65:LEU:HD22	2.00	0.61
3:BN:144:TYR:OH	3:BN:146:ALA:HB2	2.00	0.61
3:BO:123:ASP:OD1	3:BO:126:SER:CB	2.47	0.61
3:BO:153:SER:OG	3:BO:269:LEU:CD1	2.48	0.61
3:BO:197:PRO:HG2	3:BO:205:ILE:CG2	2.31	0.61
3:BP:174:TYR:CD1	3:BP:198:LEU:HD11	2.34	0.61
4:BX:2:ALA:O	4:BX:5:ILE:HG23	2.00	0.61
4:BX:619:LEU:O	4:BX:620:ARG:O	2.18	0.61
4:BX:633:PHE:HB3	4:BX:671:ARG:HH11	1.65	0.61
4:BY:631:MET:CE	4:BY:752:LEU:HD23	2.30	0.61
4:BZ:541:ALA:CA	4:BZ:544:MET:HE2	2.30	0.61
1:AA:570:THR:HG22	1:AA:572:THR:H	1.64	0.61
1:AB:371:ASN:O	1:AB:373:GLN:N	2.33	0.61
1:AB:401:TYR:HA	1:AB:404:LEU:CD1	2.30	0.61
1:AB:686:LEU:HD22	2:AL:71:LEU:HD21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:351:GLN:CG	4:BY:732:ASP:CG	2.61	0.61
2:AF:24:TYR:O	2:AF:27:VAL:HG22	2.00	0.61
2:AF:54:LEU:HD12	2:AF:55:PRO:HD2	1.81	0.61
2:AK:346:VAL:HG21	2:AK:385:VAL:HG13	1.81	0.61
2:AM:38:ILE:HD12	2:AM:65:LEU:CD2	2.30	0.61
2:AN:310:ASN:HB2	3:BO:180:GLU:OE1	2.00	0.61
3:BG:197:PRO:HG2	3:BG:205:ILE:CG2	2.31	0.61
3:BH:197:PRO:HG2	3:BH:205:ILE:CG2	2.31	0.61
3:BJ:197:PRO:HG2	3:BJ:205:ILE:CG2	2.31	0.61
3:BL:109:LYS:CE	4:BX:496:ARG:HH21	2.12	0.61
3:BL:164:LEU:HA	3:BL:322:PHE:CD1	2.35	0.61
3:BM:197:PRO:HG2	3:BM:205:ILE:CG2	2.31	0.61
3:BN:197:PRO:HG2	3:BN:205:ILE:CG2	2.31	0.61
3:BO:129:VAL:HG12	3:BO:130:ASP:N	2.13	0.61
3:BP:257:ASN:HD22	3:BP:313:ARG:NH2	1.90	0.61
4:BX:66:ASP:CB	4:BX:286:GLY:HA2	2.30	0.61
4:BY:1:MET:H1	4:BY:1:MET:CE	2.14	0.61
4:BY:16:VAL:HG23	4:BY:17:ASP:N	2.16	0.61
4:BY:263:LYS:HB3	4:BY:477:ASN:HD22	1.62	0.61
4:BY:312:VAL:CG1	4:BY:362:PHE:CZ	2.83	0.61
4:BY:505:PHE:CZ	4:BY:659:ILE:HD11	2.36	0.61
1:AA:126:PHE:CE1	1:AA:248:ILE:HD12	2.36	0.61
1:AA:400:ASN:CG	1:AA:403:SER:HB2	2.20	0.61
1:AA:729:GLY:C	1:AA:730:PHE:HD1	2.04	0.61
1:AB:635:GLN:NE2	1:AB:740:ARG:HH22	1.99	0.61
1:AB:743:ASP:C	1:AB:744:TYR:CD2	2.59	0.61
2:AH:346:VAL:HG21	2:AH:385:VAL:HG13	1.81	0.61
2:AJ:27:VAL:O	2:AJ:31:ILE:HG12	1.99	0.61
2:AJ:35:ASN:OD1	2:AJ:65:LEU:HD22	2.00	0.61
2:AL:116:LEU:HD12	2:AL:119:LEU:HB2	1.82	0.61
2:AO:4:LEU:HA	2:AO:7:LEU:HD12	1.81	0.61
3:BA:158:LEU:CD1	3:BA:224:LEU:HD21	2.27	0.61
3:BF:123:ASP:OD1	3:BF:126:SER:CB	2.47	0.61
3:BF:197:PRO:HG2	3:BF:205:ILE:CG2	2.31	0.61
3:BF:288:ASN:ND2	3:BH:153:SER:CB	2.64	0.61
3:BI:199:ASN:CA	3:BI:205:ILE:HD11	2.30	0.61
3:BI:271:ILE:HG22	3:BI:271:ILE:O	1.99	0.61
3:BJ:174:TYR:CD1	3:BJ:198:LEU:HD13	2.34	0.61
3:BO:75:THR:HG23	3:BO:79:SER:OG	2.00	0.61
4:BX:143:VAL:HG12	4:BX:152:TYR:CD2	2.35	0.61
4:BX:495:GLU:O	4:BX:498:LEU:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:640:VAL:O	4:BX:644:LYS:HD2	2.01	0.61
4:BY:640:VAL:O	4:BY:644:LYS:HD2	2.00	0.61
1:AA:650:GLN:O	1:AA:651:ILE:HB	1.99	0.61
1:AB:200:VAL:HG21	1:AB:243:SER:CB	2.13	0.61
1:AB:481:ARG:HD2	1:AB:481:ARG:N	2.00	0.61
2:AE:4:LEU:HA	2:AE:7:LEU:HD12	1.80	0.61
2:AE:346:VAL:HG21	2:AE:385:VAL:HG13	1.81	0.61
2:AG:130:ASP:HA	2:AH:17:LYS:HG2	1.82	0.61
3:BF:144:TYR:CE2	3:BF:146:ALA:CB	2.79	0.61
3:BF:315:ARG:NH1	3:BF:317:LEU:CD2	2.59	0.61
3:BK:197:PRO:HG2	3:BK:205:ILE:CG2	2.31	0.61
3:BL:163:TRP:O	3:BL:322:PHE:CE1	2.53	0.61
3:BL:237:LEU:CD2	3:BL:246:ILE:HD13	2.31	0.61
3:BN:316:SER:CB	3:BP:323:TYR:CD2	2.84	0.61
3:BP:144:TYR:CE2	3:BP:146:ALA:CB	2.78	0.61
3:BQ:144:TYR:OH	3:BQ:146:ALA:HB2	2.01	0.61
3:BQ:197:PRO:HG2	3:BQ:205:ILE:CG2	2.31	0.61
3:BQ:285:MET:HE3	3:BQ:306:ILE:HG23	1.83	0.61
1:AA:803:ASN:O	1:AA:805:ASP:N	2.33	0.61
1:AB:323:THR:O	1:AB:326:TYR:HB3	2.00	0.61
1:AB:447:TYR:OH	1:AB:458:ILE:HD11	2.01	0.61
1:AB:457:GLN:OE1	1:AB:457:GLN:CA	2.47	0.61
1:AB:464:GLN:HB3	2:AH:66:LEU:CD2	2.25	0.61
2:AJ:38:ILE:HD12	2:AJ:65:LEU:CD2	2.30	0.61
3:BA:121:TYR:CB	3:BA:127:PHE:HB2	2.30	0.61
3:BA:197:PRO:HG2	3:BA:205:ILE:CG2	2.31	0.61
3:BG:252:LEU:CG	3:BG:253:GLY:H	2.09	0.61
3:BH:158:LEU:CD1	3:BH:224:LEU:HD21	2.27	0.61
3:BJ:129:VAL:HG21	3:BJ:223:LYS:NZ	2.15	0.61
3:BJ:237:LEU:CD2	3:BJ:246:ILE:HD13	2.31	0.61
3:BK:125:ALA:CB	3:BK:223:LYS:CD	2.53	0.61
3:BK:261:ILE:CD1	3:BK:287:ILE:HD11	2.24	0.61
3:BL:126:SER:CA	3:BL:223:LYS:NZ	2.55	0.61
3:BN:257:ASN:ND2	3:BN:315:ARG:HH11	1.98	0.61
3:BO:144:TYR:OH	3:BO:146:ALA:HB2	2.01	0.61
4:BX:708:PHE:CE2	4:BX:712:VAL:HG21	2.36	0.61
4:BY:355:TYR:CE2	4:BY:424:LEU:CG	2.83	0.61
4:BZ:640:VAL:O	4:BZ:644:LYS:HD2	2.01	0.61
1:AA:362:SER:O	1:AA:366:PHE:CE1	2.47	0.61
1:AB:306:ASP:C	1:AB:308:LEU:N	2.53	0.61
1:AB:500:GLY:HA3	1:AB:871:PHE:HZ	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:130:ASP:HA	2:AE:17:LYS:HG2	1.82	0.61
2:AH:5:TYR:CE2	2:AH:131:ASN:HA	2.35	0.61
3:BF:252:LEU:HG	3:BF:253:GLY:H	1.63	0.61
3:BL:266:SER:HA	3:BL:286:ARG:NH1	2.15	0.61
3:BP:126:SER:CA	3:BP:223:LYS:NZ	2.55	0.61
3:BP:197:PRO:HG2	3:BP:205:ILE:CG2	2.31	0.61
4:BY:47:PRO:HB3	4:BY:419:VAL:HG22	1.82	0.61
4:BY:143:VAL:HG12	4:BY:152:TYR:CD2	2.35	0.61
4:BY:321:ASN:CB	4:BY:352:TYR:CE1	2.83	0.61
4:BY:353:VAL:HG22	4:BY:426:PHE:HB2	1.81	0.61
4:BY:518:ILE:O	4:BY:521:ALA:HB3	1.99	0.61
4:BZ:410:THR:O	4:BZ:411:LEU:HD23	2.01	0.61
1:AA:208:CYS:SG	1:AA:244:ILE:CD1	2.89	0.61
1:AA:697:ASP:C	1:AA:699:ILE:N	2.53	0.61
1:AB:259:HIS:CD2	1:AB:677:ARG:HG3	2.35	0.61
1:AB:404:LEU:O	1:AB:407:GLY:N	2.33	0.61
2:AK:165:THR:HG23	3:BN:59:ILE:O	2.00	0.61
3:BG:129:VAL:HG22	3:BG:187:MET:CG	2.31	0.61
3:BG:129:VAL:CG2	3:BG:223:LYS:O	2.49	0.61
3:BG:162:GLU:N	3:BG:253:GLY:O	2.31	0.61
3:BI:183:LYS:N	3:BI:249:CYS:O	2.26	0.61
3:BI:290:LYS:HA	3:BK:150:LEU:CD2	2.31	0.61
3:BJ:285:MET:CE	3:BJ:306:ILE:HG23	2.31	0.61
3:BN:129:VAL:O	3:BN:131:PRO:HD2	2.00	0.61
3:BN:237:LEU:CD2	3:BN:246:ILE:HD13	2.31	0.61
3:BN:257:ASN:CG	3:BN:315:ARG:HD3	2.21	0.61
3:BP:237:LEU:CD2	3:BP:246:ILE:HD13	2.31	0.61
3:BP:274:ASP:HB3	3:BQ:302:TYR:CE1	2.35	0.61
3:BQ:255:ARG:CD	3:BQ:257:ASN:HD22	2.14	0.61
4:BX:37:LEU:CD1	4:BX:480:TYR:CE2	2.84	0.61
4:BX:505:PHE:CZ	4:BX:659:ILE:HD11	2.36	0.61
4:BX:595:SER:HB3	4:BX:614:THR:HG22	1.82	0.61
4:BY:578:GLY:C	4:BY:580:SER:H	2.02	0.61
4:BZ:443:ARG:C	4:BZ:444:VAL:HG23	2.21	0.61
4:BZ:566:ASP:O	4:BZ:568:LEU:N	2.34	0.61
1:AA:597:PRO:HB3	1:AA:860:ALA:CB	2.31	0.61
1:AA:784:ALA:O	1:AA:787:VAL:HG23	2.01	0.61
1:AB:393:SER:CB	1:AB:573:THR:HG21	2.30	0.61
1:AB:482:GLN:O	1:AB:483:VAL:HG22	2.00	0.61
2:AD:38:ILE:HG22	2:AD:42:ASN:ND2	2.15	0.61
2:AD:144:ARG:O	2:AD:145:ARG:HB2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:171:PRO:CB	3:BJ:314:SER:HG	2.12	0.61
2:AK:169:SER:H	3:BP:51:GLN:HA	1.64	0.61
2:AM:38:ILE:HG22	2:AM:42:ASN:ND2	2.15	0.61
2:AM:130:ASP:HA	2:AN:17:LYS:HG2	1.82	0.61
2:AO:150:PHE:N	2:AO:150:PHE:CD1	2.69	0.61
3:BH:237:LEU:CD2	3:BH:246:ILE:HD13	2.31	0.61
3:BI:84:TYR:HD2	3:BI:127:PHE:HE1	1.47	0.61
3:BK:285:MET:HE3	3:BK:306:ILE:HG23	1.81	0.61
3:BP:158:LEU:CD1	3:BP:224:LEU:HD21	2.27	0.61
4:BX:262:TRP:CB	4:BX:473:LEU:HD21	2.31	0.61
4:BY:540:ALA:O	4:BY:544:MET:CB	2.49	0.61
4:BY:591:TRP:HA	4:BY:618:ARG:HD3	1.82	0.61
4:BZ:640:VAL:CG1	4:BZ:644:LYS:HZ2	2.14	0.61
1:AA:701:GLN:HB3	1:AA:826:TYR:CD2	2.36	0.60
1:AB:272:ASN:C	1:AB:274:ILE:H	2.02	0.60
1:AB:544:VAL:HG12	1:AB:548:ARG:HE	1.66	0.60
2:AL:24:TYR:O	2:AL:27:VAL:HG22	2.00	0.60
3:BA:80:THR:OG1	3:BA:135:CYS:HB2	2.01	0.60
3:BI:129:VAL:HG12	3:BI:130:ASP:N	2.15	0.60
3:BJ:55:ILE:CG2	3:BJ:56:ASN:N	2.64	0.60
3:BK:121:TYR:CB	3:BK:127:PHE:HB2	2.30	0.60
3:BK:129:VAL:HG21	3:BK:223:LYS:HZ3	1.65	0.60
3:BM:144:TYR:CE2	3:BM:146:ALA:HB2	2.36	0.60
3:BN:125:ALA:C	3:BN:223:LYS:HZ2	2.04	0.60
3:BN:317:LEU:O	3:BN:318:ASN:HB2	2.01	0.60
3:BQ:237:LEU:CD2	3:BQ:246:ILE:HD13	2.31	0.60
4:BX:574:SER:OG	4:BY:647:ARG:NH2	2.34	0.60
4:BY:270:ASP:HB2	4:BY:307:ARG:CG	2.31	0.60
4:BY:590:ALA:HA	4:BY:594:VAL:HG23	1.82	0.60
1:AA:204:THR:CG2	1:AA:244:ILE:H	2.15	0.60
1:AA:498:ARG:HB3	1:AA:505:GLN:NE2	2.16	0.60
1:AA:512:GLN:O	1:AA:516:GLN:CD	2.39	0.60
1:AA:817:TRP:O	1:AA:818:VAL:HG23	2.00	0.60
1:AB:199:VAL:CG1	1:AB:200:VAL:N	2.64	0.60
1:AB:303:LEU:HD13	1:AB:562:THR:HG21	1.83	0.60
2:AC:116:LEU:HD12	2:AC:119:LEU:HB2	1.82	0.60
2:AJ:144:ARG:O	2:AJ:145:ARG:HB2	2.01	0.60
2:AJ:346:VAL:HG21	2:AJ:385:VAL:HG13	1.81	0.60
3:BG:52:ASN:ND2	3:BO:55:ILE:HA	2.16	0.60
3:BG:125:ALA:C	3:BG:223:LYS:HZ2	2.03	0.60
3:BG:150:LEU:HD22	3:BH:290:LYS:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:271:ILE:CG1	3:BG:279:PRO:HG2	2.27	0.60
3:BH:288:ASN:O	3:BH:288:ASN:OD1	2.19	0.60
3:BJ:275:PRO:O	3:BK:285:MET:HB2	2.01	0.60
3:BK:144:TYR:OH	3:BK:146:ALA:HB2	2.01	0.60
3:BM:268:VAL:CB	3:BN:266:SER:CB	2.74	0.60
3:BN:57:LEU:CD1	3:BN:58:PRO:HD2	2.31	0.60
3:BO:150:LEU:HD21	3:BP:290:LYS:CG	2.31	0.60
3:BP:313:ARG:HG2	3:BP:316:SER:HB3	1.84	0.60
4:BX:718:ILE:CD1	4:BX:746:ARG:HA	2.29	0.60
4:BX:734:TYR:OH	4:BX:761:PRO:CB	2.47	0.60
4:BY:755:PHE:HB3	4:BY:763:ILE:CD1	2.31	0.60
4:BZ:266:GLN:HG2	4:BZ:470:LEU:O	1.99	0.60
1:AA:323:THR:O	1:AA:326:TYR:HB3	2.01	0.60
1:AA:526:LYS:HA	1:AA:529:ILE:HG22	1.83	0.60
1:AB:477:ASN:CG	2:AI:39:ILE:HG23	2.21	0.60
1:AB:516:GLN:O	1:AB:517:GLN:NE2	2.35	0.60
1:AB:573:THR:O	1:AB:574:GLU:HG2	2.01	0.60
1:AB:771:VAL:HG21	1:AB:809:PHE:O	2.01	0.60
2:AE:150:PHE:HB2	2:AE:152:PHE:HE1	1.66	0.60
2:AI:24:TYR:O	2:AI:27:VAL:HG22	2.00	0.60
2:AI:57:ARG:HH11	2:AI:94:ASN:ND2	1.96	0.60
2:AK:268:GLN:OE1	4:BX:700:GLU:CD	2.38	0.60
2:AO:85:ILE:O	2:AO:89:VAL:HG23	2.01	0.60
3:BG:158:LEU:CD1	3:BG:224:LEU:HD21	2.27	0.60
3:BI:285:MET:HB2	3:BK:275:PRO:O	2.01	0.60
3:BL:285:MET:HB2	3:BN:275:PRO:O	2.01	0.60
3:BP:174:TYR:CD1	3:BP:198:LEU:HD13	2.34	0.60
4:BX:574:SER:HA	4:BY:647:ARG:NH2	2.16	0.60
4:BX:750:ARG:O	4:BX:752:LEU:N	2.34	0.60
4:BZ:570:ASP:O	4:BZ:574:SER:HB2	2.01	0.60
1:AA:250:HIS:NE2	1:AA:840:HIS:HB2	2.16	0.60
1:AA:362:SER:HA	1:AA:365:GLN:NE2	2.16	0.60
1:AA:663:TYR:O	1:AA:666:ARG:N	2.33	0.60
1:AB:540:LEU:HA	1:AB:543:LEU:HB2	1.83	0.60
2:AD:68:THR:O	2:AD:69:THR:C	2.40	0.60
2:AH:38:ILE:HG21	2:AH:64:GLY:H	1.66	0.60
2:AH:76:ASN:H	2:AJ:76:ASN:HB2	1.67	0.60
2:AH:157:ILE:HG12	2:AH:214:LEU:HD13	1.84	0.60
2:AH:164:PHE:H	3:BK:61:GLY:HA3	1.65	0.60
2:AI:310:ASN:CB	3:BL:180:GLU:OE1	2.48	0.60
2:AN:202:PRO:HB2	4:BX:577:ARG:HG2	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:222:GLU:HB2	3:BF:225:VAL:HG23	1.84	0.60
3:BG:79:SER:HB3	3:BG:312:LYS:NZ	2.16	0.60
3:BH:144:TYR:CE2	3:BH:146:ALA:CB	2.79	0.60
3:BH:285:MET:CE	3:BH:306:ILE:HG23	2.31	0.60
3:BI:222:GLU:HB2	3:BI:225:VAL:HG23	1.84	0.60
3:BI:290:LYS:HA	3:BK:150:LEU:HD22	1.82	0.60
3:BM:150:LEU:HD22	3:BN:290:LYS:HA	1.83	0.60
3:BN:159:ILE:CG2	3:BN:258:VAL:CG2	2.78	0.60
3:BN:161:ASN:HD22	3:BN:254:PRO:HA	1.66	0.60
3:BN:222:GLU:HB2	3:BN:225:VAL:HG23	1.84	0.60
4:BX:755:PHE:HD1	4:BX:755:PHE:H	1.50	0.60
4:BZ:668:ILE:CG2	4:BZ:671:ARG:HD3	2.32	0.60
1:AA:257:LEU:CD1	1:AA:843:THR:O	2.42	0.60
1:AB:374:ALA:O	1:AB:580:SER:HB2	2.02	0.60
1:AB:393:SER:N	1:AB:573:THR:HG23	2.15	0.60
1:AB:457:GLN:OE1	1:AB:457:GLN:C	2.40	0.60
1:AB:863:VAL:HG12	1:AB:864:GLU:H	1.66	0.60
2:AC:54:LEU:HD12	2:AC:55:PRO:HD2	1.81	0.60
2:AD:205:ILE:HG12	2:AD:295:MET:HG3	1.83	0.60
2:AE:205:ILE:HG12	2:AE:295:MET:HG3	1.83	0.60
2:AE:255:ARG:NE	3:BG:65:THR:HG23	2.13	0.60
2:AI:171:PRO:HG2	3:BJ:322:PHE:CE2	2.35	0.60
2:AM:255:ARG:NH2	3:BO:67:TYR:CD1	2.69	0.60
2:AN:163:SER:OG	3:BO:62:SER:CA	2.48	0.60
3:BH:252:LEU:O	3:BH:253:GLY:C	2.40	0.60
3:BI:275:PRO:O	3:BJ:285:MET:HB2	2.02	0.60
3:BJ:53:TYR:CA	3:BL:55:ILE:HG12	2.31	0.60
3:BL:199:ASN:CA	3:BL:205:ILE:HD11	2.30	0.60
3:BM:130:ASP:OD1	3:BM:130:ASP:O	2.19	0.60
3:BN:59:ILE:O	3:BN:59:ILE:HG23	2.01	0.60
3:BP:78:THR:O	3:BP:78:THR:HG22	2.02	0.60
3:BP:285:MET:CE	3:BP:306:ILE:HG23	2.31	0.60
4:BX:584:VAL:HG23	4:BX:596:THR:HG23	1.83	0.60
4:BY:346:LYS:O	4:BY:349:SER:CB	2.49	0.60
4:BY:633:PHE:CB	4:BY:671:ARG:NH1	2.65	0.60
4:BY:665:GLU:HG3	4:BY:666:LYS:HG3	1.82	0.60
4:BY:692:ALA:HB3	4:BY:701:ILE:CG2	2.32	0.60
4:BZ:611:GLN:O	4:BZ:612:THR:C	2.40	0.60
4:BZ:628:THR:HG22	4:BZ:629:GLU:H	1.66	0.60
4:BZ:691:PHE:N	4:BZ:691:PHE:CD1	2.69	0.60
1:AB:440:PHE:HE1	2:AH:68:THR:CB	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:518:PHE:CD2	2:AH:69:THR:OG1	2.53	0.60
2:AC:295:MET:CE	3:BH:67:TYR:CZ	2.83	0.60
2:AG:255:ARG:HD3	3:BK:65:THR:OG1	1.99	0.60
2:AJ:63:PHE:CD2	2:AJ:84:THR:HG23	2.36	0.60
2:AN:76:ASN:HA	2:AO:75:ALA:HB3	1.83	0.60
2:AO:100:MET:HG3	2:AO:388:VAL:HG11	1.84	0.60
3:BF:237:LEU:CD2	3:BF:246:ILE:HD13	2.31	0.60
3:BI:174:TYR:CD1	3:BI:198:LEU:HD11	2.34	0.60
3:BO:237:LEU:CD2	3:BO:246:ILE:HD13	2.31	0.60
3:BP:128:SER:HB2	3:BP:224:LEU:HD22	1.83	0.60
3:BP:170:ILE:HD13	3:BP:239:VAL:CG2	2.32	0.60
3:BP:275:PRO:O	3:BQ:285:MET:HB2	2.01	0.60
4:BY:13:SER:O	4:BY:16:VAL:HG13	2.01	0.60
4:BY:46:ALA:CB	4:BZ:336:ASP:OD1	2.49	0.60
4:BZ:305:TYR:HE1	4:BZ:307:ARG:HE	1.46	0.60
4:BZ:755:PHE:HB3	4:BZ:763:ILE:CD1	2.32	0.60
1:AA:128:PRO:HG3	1:AA:148:TRP:CE3	2.34	0.60
1:AA:263:GLU:HB3	1:AA:264:PRO:HD3	1.83	0.60
1:AA:428:GLN:HE22	1:AA:455:PRO:HD2	1.66	0.60
1:AB:392:MET:CE	1:AB:576:LEU:HD11	2.32	0.60
1:AB:549:LEU:HD13	1:AB:877:MET:CE	2.31	0.60
2:AD:310:ASN:CB	3:BH:180:GLU:CD	2.70	0.60
2:AG:205:ILE:HG12	2:AG:295:MET:HG3	1.83	0.60
3:BH:121:TYR:CB	3:BH:127:PHE:HB2	2.30	0.60
3:BI:170:ILE:HD13	3:BI:239:VAL:CG2	2.32	0.60
3:BJ:125:ALA:O	3:BJ:129:VAL:HG23	2.00	0.60
3:BJ:222:GLU:HB2	3:BJ:225:VAL:HG23	1.84	0.60
3:BM:174:TYR:CD1	3:BM:198:LEU:HD11	2.35	0.60
3:BO:170:ILE:HD13	3:BO:239:VAL:CG2	2.32	0.60
3:BP:322:PHE:C	3:BP:323:TYR:CG	2.75	0.60
3:BQ:285:MET:CE	3:BQ:306:ILE:HG23	2.31	0.60
4:BX:595:SER:OG	4:BX:618:ARG:CD	2.46	0.60
4:BY:2:ALA:HB2	4:BY:638:ALA:HB3	1.84	0.60
4:BY:346:LYS:O	4:BY:349:SER:HB2	2.01	0.60
4:BY:631:MET:CE	4:BY:749:PRO:HA	2.32	0.60
4:BZ:633:PHE:CB	4:BZ:671:ARG:NH1	2.65	0.60
4:BZ:636:ILE:HD11	4:BZ:721:ILE:CD1	2.32	0.60
1:AA:277:ARG:HD3	1:AA:559:ALA:CB	2.32	0.60
1:AA:457:GLN:O	1:AA:460:GLU:HB3	2.01	0.60
1:AA:635:GLN:HG2	1:AA:635:GLN:O	2.00	0.60
1:AB:118:LYS:HG2	1:AB:119:GLN:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:244:ILE:HD11	1:AB:838:SER:HB3	1.84	0.60
1:AB:262:VAL:CG1	1:AB:297:ARG:HB3	2.30	0.60
1:AB:366:PHE:C	1:AB:368:THR:N	2.55	0.60
1:AB:545:ASP:HB3	1:AB:877:MET:SD	2.41	0.60
2:AM:241:ALA:HB3	3:BQ:59:ILE:CD1	2.32	0.60
3:BF:158:LEU:CD1	3:BF:224:LEU:HD21	2.27	0.60
3:BJ:129:VAL:HG21	3:BJ:223:LYS:HZ3	1.66	0.60
3:BL:144:TYR:OH	3:BL:146:ALA:HB2	2.01	0.60
3:BL:222:GLU:HB2	3:BL:225:VAL:HG23	1.84	0.60
3:BM:237:LEU:CD2	3:BM:246:ILE:HD13	2.31	0.60
3:BP:128:SER:CA	3:BP:155:LEU:CD1	2.79	0.60
3:BQ:121:TYR:CB	3:BQ:127:PHE:HB2	2.30	0.60
4:BX:262:TRP:CZ2	4:BX:367:TYR:HE2	2.19	0.60
4:BX:762:ILE:HA	4:BX:765:ASN:HD21	1.66	0.60
4:BY:253:ASP:C	4:BY:254:ILE:HG13	2.21	0.60
4:BY:557:LEU:HD21	4:BY:621:LEU:HD11	1.82	0.60
4:BZ:622:LYS:HE3	4:BZ:622:LYS:C	2.22	0.60
1:AA:188:VAL:CG1	1:AA:189:GLU:H	2.11	0.60
1:AB:510:LEU:HB2	1:AB:540:LEU:HD13	1.82	0.60
2:AD:164:PHE:N	3:BH:61:GLY:O	2.29	0.60
2:AG:274:GLN:N	2:AG:274:GLN:HE21	2.00	0.60
2:AI:310:ASN:CB	3:BL:180:GLU:OE2	2.49	0.60
2:AJ:205:ILE:HG12	2:AJ:295:MET:HG3	1.83	0.60
2:AN:274:GLN:N	2:AN:274:GLN:HE21	2.00	0.60
2:AO:116:LEU:HD12	2:AO:119:LEU:HB2	1.83	0.60
2:AO:157:ILE:HG12	2:AO:214:LEU:HD13	1.84	0.60
3:BA:237:LEU:CD2	3:BA:246:ILE:HD13	2.31	0.60
3:BF:275:PRO:O	3:BG:285:MET:HB2	2.01	0.60
3:BG:285:MET:CE	3:BG:306:ILE:HG23	2.31	0.60
3:BH:144:TYR:OH	3:BH:146:ALA:HB2	2.01	0.60
3:BH:170:ILE:CD1	3:BH:239:VAL:CG2	2.80	0.60
3:BI:285:MET:CE	3:BI:306:ILE:HG23	2.31	0.60
3:BJ:175:TYR:CE1	3:BJ:237:LEU:HD22	2.37	0.60
3:BK:222:GLU:HB2	3:BK:225:VAL:HG23	1.84	0.60
3:BL:163:TRP:O	3:BL:322:PHE:CD1	2.54	0.60
3:BM:222:GLU:HB2	3:BM:225:VAL:HG23	1.84	0.60
3:BO:214:THR:CB	4:BY:480:TYR:OH	2.50	0.60
3:BO:268:VAL:HG11	3:BP:286:ARG:NH1	2.17	0.60
3:BP:121:TYR:CB	3:BP:127:PHE:HB2	2.30	0.60
4:BX:670:ASN:O	4:BX:671:ARG:CB	2.49	0.60
4:BY:1:MET:HG3	4:BY:522:LEU:N	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:515:SER:HB2	4:BY:516:GLN:NE2	2.17	0.60
4:BY:534:ILE:O	4:BY:535:LYS:HG2	2.01	0.60
4:BY:544:MET:HA	4:BY:547:SER:HB2	1.82	0.60
4:BY:698:PHE:HE2	4:BY:727:LEU:HD21	1.67	0.60
1:AA:146:TRP:O	1:AA:833:PHE:HB3	2.02	0.60
1:AA:199:VAL:CG1	1:AA:204:THR:HG21	2.32	0.60
1:AA:265:LEU:HD23	1:AA:292:LEU:HD13	1.83	0.60
1:AA:275:PRO:HB2	1:AA:278:ILE:CD1	2.31	0.60
1:AA:699:ILE:HG23	1:AA:700:ALA:N	2.17	0.60
1:AA:853:ASP:O	1:AA:854:LEU:HB2	2.01	0.60
1:AB:314:PHE:N	1:AB:314:PHE:CD1	2.69	0.60
1:AB:481:ARG:CD	2:AI:65:LEU:HD13	2.32	0.60
1:AB:562:THR:HB	1:AB:611:HIS:CD2	2.37	0.60
2:AC:168:ARG:CG	3:BO:53:TYR:HE1	2.14	0.60
2:AD:63:PHE:CD2	2:AD:84:THR:HG23	2.36	0.60
2:AE:274:GLN:HE21	2:AE:274:GLN:N	2.00	0.60
2:AF:274:GLN:N	2:AF:274:GLN:HE21	2.00	0.60
2:AK:150:PHE:HB2	2:AK:152:PHE:HE1	1.66	0.60
3:BA:170:ILE:CD1	3:BA:239:VAL:CG2	2.80	0.60
3:BF:144:TYR:OH	3:BF:146:ALA:HB2	2.02	0.60
3:BG:170:ILE:HD13	3:BG:239:VAL:CG2	2.32	0.60
3:BG:275:PRO:O	3:BH:285:MET:HB2	2.01	0.60
3:BJ:262:GLN:NE2	3:BJ:269:LEU:HD11	2.16	0.60
3:BK:289:TRP:CG	3:BK:290:LYS:N	2.69	0.60
3:BM:128:SER:CA	3:BM:155:LEU:CD1	2.79	0.60
3:BM:170:ILE:CD1	3:BM:239:VAL:CG2	2.80	0.60
3:BM:268:VAL:HB	3:BN:266:SER:HA	1.84	0.60
3:BM:285:MET:CE	3:BM:306:ILE:HG23	2.31	0.60
3:BN:160:LEU:HD23	3:BN:258:VAL:CG1	2.31	0.60
3:BQ:144:TYR:CE2	3:BQ:146:ALA:CB	2.78	0.60
4:BX:546:THR:O	4:BX:549:MET:HB2	2.02	0.60
4:BY:537:THR:HA	4:BY:540:ALA:HB3	1.83	0.60
4:BY:620:ARG:HB3	4:BY:673:TYR:CE1	2.36	0.60
4:BZ:356:TRP:CD1	4:BZ:421:LEU:HB3	2.37	0.60
1:AA:634:TYR:HB2	1:AB:875:ARG:NH2	2.15	0.59
1:AA:649:LEU:O	1:AA:650:GLN:O	2.19	0.59
1:AA:698:LYS:N	1:AA:765:PHE:CE2	2.68	0.59
1:AB:178:PRO:HD2	1:AB:256:PHE:CE2	2.36	0.59
1:AB:248:ILE:O	1:AB:251:ALA:HB3	2.02	0.59
1:AB:298:TYR:HD1	1:AB:299:ILE:N	1.99	0.59
1:AB:392:MET:HB3	1:AB:574:GLU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:772:ILE:CG2	1:AB:773:SER:N	2.65	0.59
2:AC:69:THR:OG1	2:AC:70:LEU:N	2.35	0.59
2:AD:310:ASN:CB	3:BH:180:GLU:OE1	2.50	0.59
2:AH:24:TYR:O	2:AH:27:VAL:HG22	2.02	0.59
2:AJ:310:ASN:HB2	3:BM:180:GLU:OE2	2.01	0.59
2:AM:144:ARG:O	2:AM:145:ARG:HB2	2.01	0.59
2:AM:274:GLN:HE21	2:AM:274:GLN:N	2.00	0.59
3:BF:125:ALA:O	3:BF:129:VAL:HG23	2.03	0.59
3:BF:159:ILE:HD11	3:BF:260:VAL:HG23	1.73	0.59
3:BG:222:GLU:HB2	3:BG:225:VAL:HG23	1.84	0.59
3:BG:237:LEU:CD2	3:BG:246:ILE:HD13	2.31	0.59
3:BI:237:LEU:CD2	3:BI:246:ILE:HD13	2.31	0.59
3:BJ:121:TYR:CB	3:BJ:127:PHE:HB2	2.30	0.59
3:BK:237:LEU:CD2	3:BK:246:ILE:HD13	2.31	0.59
3:BL:159:ILE:HG13	3:BL:160:LEU:H	1.66	0.59
3:BL:185:ILE:HG12	3:BL:226:ILE:HG12	1.84	0.59
3:BN:317:LEU:O	3:BN:318:ASN:CB	2.50	0.59
3:BO:76:PHE:CE2	3:BO:111:TRP:CD1	2.89	0.59
3:BO:150:LEU:HD22	3:BP:290:LYS:HA	1.84	0.59
3:BO:158:LEU:CD1	3:BO:224:LEU:HD21	2.27	0.59
3:BO:185:ILE:HG12	3:BO:226:ILE:HG12	1.84	0.59
3:BP:144:TYR:OH	3:BP:146:ALA:HB2	2.02	0.59
3:BP:313:ARG:O	3:BP:314:SER:C	2.40	0.59
4:BX:750:ARG:O	4:BX:753:ARG:N	2.34	0.59
4:BY:356:TRP:C	4:BY:357:ASP:OD1	2.41	0.59
4:BY:540:ALA:O	4:BY:542:LYS:N	2.35	0.59
4:BY:549:MET:O	4:BY:551:LYS:N	2.34	0.59
4:BZ:557:LEU:CD1	4:BZ:664:SER:HB3	2.32	0.59
4:BZ:755:PHE:H	4:BZ:755:PHE:HD1	1.49	0.59
1:AA:111:ILE:HG23	1:AA:111:ILE:O	2.02	0.59
1:AA:306:ASP:C	1:AA:308:LEU:H	2.05	0.59
1:AA:309:ASN:HA	1:AA:311:HIS:CE1	2.37	0.59
1:AA:557:LEU:O	1:AA:560:CYS:SG	2.55	0.59
1:AB:122:LEU:O	1:AB:123:PHE:HB3	2.02	0.59
1:AB:134:TYR:HB3	1:AB:139:GLU:O	2.02	0.59
1:AB:246:HIS:CE1	1:AB:247:PRO:HD2	2.37	0.59
1:AB:440:PHE:CD1	1:AB:518:PHE:CZ	2.91	0.59
2:AD:157:ILE:HG12	2:AD:214:LEU:HD13	1.84	0.59
2:AG:157:ILE:HG12	2:AG:214:LEU:HD13	1.84	0.59
2:AL:274:GLN:N	2:AL:274:GLN:HE21	2.00	0.59
2:AO:24:TYR:O	2:AO:26:ASN:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:125:ALA:HB1	3:BF:223:LYS:CB	2.32	0.59
3:BF:285:MET:CE	3:BF:306:ILE:HG23	2.31	0.59
3:BF:288:ASN:HD21	3:BH:153:SER:CB	2.14	0.59
3:BH:125:ALA:HB1	3:BH:223:LYS:CB	2.33	0.59
3:BH:170:ILE:HD13	3:BH:239:VAL:CG2	2.32	0.59
3:BH:252:LEU:HG	3:BH:253:GLY:N	2.16	0.59
3:BJ:170:ILE:CD1	3:BJ:239:VAL:CG2	2.80	0.59
3:BL:109:LYS:NZ	4:BX:496:ARG:HH21	1.97	0.59
3:BL:275:PRO:O	3:BM:285:MET:HB2	2.01	0.59
3:BO:58:PRO:C	3:BO:59:ILE:HG13	2.22	0.59
3:BO:76:PHE:CE2	3:BO:109:LYS:O	2.55	0.59
3:BQ:170:ILE:HD13	3:BQ:239:VAL:CG2	2.32	0.59
4:BX:737:SER:OG	4:BX:740:GLN:HG3	2.02	0.59
4:BY:501:LEU:HD13	4:BY:655:THR:CG2	2.32	0.59
4:BZ:371:LEU:HD23	4:BZ:372:ALA:N	2.17	0.59
4:BZ:750:ARG:O	4:BZ:752:LEU:N	2.36	0.59
1:AB:305:GLN:O	1:AB:307:ARG:N	2.35	0.59
1:AB:527:ARG:O	1:AB:531:ARG:CG	2.51	0.59
2:AG:143:ASN:HA	2:AI:145:ARG:HD3	1.83	0.59
2:AG:202:PRO:CG	4:BZ:577:ARG:NE	2.65	0.59
2:AI:239:ASN:CB	3:BL:67:TYR:CE2	2.84	0.59
2:AJ:274:GLN:N	2:AJ:274:GLN:HE21	2.00	0.59
2:AL:23:LEU:CD2	2:AL:71:LEU:O	2.49	0.59
2:AM:63:PHE:CD2	2:AM:84:THR:HG23	2.36	0.59
3:BA:170:ILE:HD13	3:BA:239:VAL:CG2	2.32	0.59
3:BG:136:ASP:OD1	3:BG:312:LYS:HB2	2.02	0.59
3:BG:272:THR:HG23	3:BG:279:PRO:HD3	1.84	0.59
3:BI:289:TRP:CZ3	3:BI:292:TRP:CE2	2.90	0.59
3:BN:285:MET:CE	3:BN:306:ILE:HG23	2.31	0.59
3:BO:175:TYR:CE1	3:BO:237:LEU:HD22	2.37	0.59
3:BQ:170:ILE:CD1	3:BQ:239:VAL:CG2	2.80	0.59
4:BX:589:SER:O	4:BX:591:TRP:N	2.35	0.59
4:BX:645:ILE:HA	4:BX:651:ILE:CD1	2.32	0.59
4:BY:643:THR:HG22	4:BY:644:LYS:N	2.16	0.59
4:BZ:640:VAL:O	4:BZ:643:THR:HB	2.02	0.59
4:BZ:643:THR:HG22	4:BZ:644:LYS:N	2.17	0.59
1:AA:492:VAL:HG13	1:AA:558:MET:HE1	1.83	0.59
1:AA:548:ARG:HH12	1:AA:878:ASN:N	1.98	0.59
1:AA:619:ASN:CG	1:AA:675:GLU:CG	2.64	0.59
1:AA:660:ASP:O	1:AA:662:MET:N	2.35	0.59
1:AA:768:ASP:OD1	1:AA:769:SER:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:770:SER:O	1:AA:771:VAL:C	2.40	0.59
1:AB:701:GLN:HB2	1:AB:826:TYR:CD2	2.37	0.59
2:AI:157:ILE:HG12	2:AI:214:LEU:HD13	1.84	0.59
2:AK:239:ASN:OD1	3:BN:63:MET:SD	2.60	0.59
3:BG:52:ASN:O	3:BO:57:LEU:HD21	2.02	0.59
3:BG:63:MET:HG3	3:BG:65:THR:OG1	2.03	0.59
3:BG:274:ASP:OD1	3:BG:276:THR:OG1	2.20	0.59
3:BH:185:ILE:HG12	3:BH:226:ILE:HG12	1.84	0.59
3:BH:222:GLU:HB2	3:BH:225:VAL:HG23	1.84	0.59
3:BL:313:ARG:O	3:BL:314:SER:HB3	2.02	0.59
3:BM:158:LEU:CD1	3:BM:224:LEU:HD21	2.27	0.59
3:BN:170:ILE:HD13	3:BN:239:VAL:CG2	2.32	0.59
3:BQ:158:LEU:CD1	3:BQ:224:LEU:HD21	2.27	0.59
3:BQ:255:ARG:HD2	3:BQ:257:ASN:ND2	2.17	0.59
4:BX:516:GLN:HB2	4:BZ:572:ALA:CA	2.31	0.59
4:BX:524:PRO:CD	4:BZ:626:THR:HG23	2.33	0.59
4:BX:574:SER:O	4:BX:575:ILE:CG2	2.50	0.59
4:BX:627:GLN:O	4:BX:627:GLN:CD	2.41	0.59
4:BX:652:SER:CB	4:BX:653:PRO:HD2	2.31	0.59
4:BY:253:ASP:N	4:BY:253:ASP:OD1	2.35	0.59
4:BY:573:SER:O	4:BY:574:SER:O	2.20	0.59
4:BZ:16:VAL:HG23	4:BZ:17:ASP:N	2.18	0.59
4:BZ:535:LYS:O	4:BZ:651:ILE:HG22	2.01	0.59
4:BZ:737:SER:OG	4:BZ:740:GLN:HG3	2.01	0.59
1:AA:208:CYS:SG	1:AA:244:ILE:HD11	2.42	0.59
1:AA:346:ILE:O	1:AA:349:MET:HB3	2.03	0.59
1:AA:443:GLN:HG3	1:AA:443:GLN:O	2.01	0.59
1:AA:499:ASN:CA	1:AA:505:GLN:HE21	2.16	0.59
1:AA:833:PHE:HZ	1:AA:835:PHE:HD1	1.48	0.59
2:AC:239:ASN:OD1	3:BG:67:TYR:CE2	2.56	0.59
2:AC:274:GLN:N	2:AC:274:GLN:HE21	2.00	0.59
2:AM:34:PHE:HD2	2:AM:66:LEU:CD1	2.15	0.59
3:BF:121:TYR:CB	3:BF:127:PHE:HB2	2.30	0.59
3:BF:170:ILE:HD13	3:BF:239:VAL:CG2	2.32	0.59
3:BF:285:MET:HB2	3:BH:275:PRO:O	2.01	0.59
3:BH:274:ASP:OD1	3:BH:276:THR:OG1	2.20	0.59
3:BI:144:TYR:OH	3:BI:146:ALA:HB2	2.01	0.59
3:BJ:252:LEU:C	3:BJ:253:GLY:O	2.40	0.59
3:BL:275:PRO:CD	3:BL:276:THR:N	2.66	0.59
3:BL:290:LYS:CB	3:BN:150:LEU:HD21	2.16	0.59
3:BM:275:PRO:CD	3:BM:276:THR:N	2.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BO:274:ASP:OD1	3:BO:276:THR:OG1	2.20	0.59
3:BO:310:MET:O	3:BO:311:SER:HB3	2.02	0.59
3:BP:170:ILE:CD1	3:BP:239:VAL:CG2	2.80	0.59
3:BP:185:ILE:HG12	3:BP:226:ILE:HG12	1.85	0.59
4:BX:590:ALA:HA	4:BX:594:VAL:CG2	2.32	0.59
4:BY:312:VAL:CG1	4:BY:362:PHE:CE1	2.82	0.59
4:BY:701:ILE:HD13	4:BY:702:PRO:O	2.01	0.59
4:BZ:264:GLU:CG	4:BZ:473:LEU:HA	2.33	0.59
4:BZ:505:PHE:CZ	4:BZ:659:ILE:HD11	2.37	0.59
4:BZ:566:ASP:HB3	4:BZ:570:ASP:OD2	2.02	0.59
1:AA:179:ASP:O	1:AA:180:TYR:HB3	2.01	0.59
1:AA:766:ILE:HG23	1:AA:766:ILE:O	2.03	0.59
2:AF:238:ILE:HG23	3:BI:63:MET:CE	2.33	0.59
2:AH:274:GLN:N	2:AH:274:GLN:HE21	2.00	0.59
2:AM:157:ILE:HG12	2:AM:214:LEU:HD13	1.84	0.59
2:AN:24:TYR:O	2:AN:27:VAL:HG22	2.02	0.59
3:BF:274:ASP:OD1	3:BF:276:THR:OG1	2.20	0.59
3:BI:170:ILE:CD1	3:BI:239:VAL:CG2	2.80	0.59
3:BK:285:MET:CE	3:BK:306:ILE:HG23	2.31	0.59
3:BL:252:LEU:HG	3:BL:253:GLY:N	2.17	0.59
3:BL:285:MET:CE	3:BL:306:ILE:HG23	2.31	0.59
3:BM:144:TYR:HB2	3:BM:264:GLY:HA3	1.84	0.59
3:BM:174:TYR:CD1	3:BM:198:LEU:HD13	2.34	0.59
3:BM:275:PRO:O	3:BN:285:MET:HB2	2.01	0.59
3:BN:275:PRO:CD	3:BN:276:THR:N	2.66	0.59
3:BO:275:PRO:O	3:BP:285:MET:HB2	2.01	0.59
3:BO:290:LYS:CB	3:BQ:150:LEU:CD2	2.79	0.59
4:BX:1:MET:HA	4:BX:524:PRO:HA	1.83	0.59
4:BX:516:GLN:CB	4:BZ:572:ALA:HA	2.33	0.59
4:BX:543:SER:O	4:BX:547:SER:N	2.35	0.59
1:AA:548:ARG:HB3	1:AA:876:ILE:HG23	1.85	0.59
1:AB:265:LEU:HB3	1:AB:296:ALA:CB	2.32	0.59
1:AB:454:THR:CG2	1:AB:455:PRO:CD	2.72	0.59
2:AG:205:ILE:HD13	4:BZ:580:SER:CB	2.32	0.59
2:AL:157:ILE:HG12	2:AL:214:LEU:HD13	1.84	0.59
2:AN:150:PHE:HB2	2:AN:152:PHE:HE1	1.66	0.59
3:BA:125:ALA:HB1	3:BA:223:LYS:CB	2.32	0.59
3:BF:154:GLU:OE2	3:BG:290:LYS:CE	2.50	0.59
3:BG:69:ASN:CB	4:BY:507:ALA:HB2	2.32	0.59
3:BG:317:LEU:HD11	3:BG:322:PHE:CZ	2.37	0.59
3:BJ:316:SER:HA	3:BJ:325:ARG:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:185:ILE:HG12	3:BK:226:ILE:HG12	1.84	0.59
3:BM:121:TYR:CB	3:BM:127:PHE:HB2	2.30	0.59
3:BN:78:THR:O	3:BN:78:THR:CG2	2.48	0.59
3:BO:53:TYR:O	3:BO:54:GLY:C	2.40	0.59
3:BP:150:LEU:HD22	3:BQ:290:LYS:HA	1.83	0.59
3:BP:263:VAL:CG1	3:BP:289:TRP:HB2	2.31	0.59
3:BQ:185:ILE:HG12	3:BQ:226:ILE:HG12	1.84	0.59
4:BY:45:TYR:CE2	4:BY:474:VAL:CG2	2.81	0.59
4:BY:750:ARG:O	4:BY:753:ARG:N	2.36	0.59
1:AA:164:GLU:O	1:AA:167:LEU:HB3	2.03	0.59
1:AB:492:VAL:HA	1:AB:565:MET:SD	2.42	0.59
1:AB:646:LEU:HA	1:AB:649:LEU:CD1	2.26	0.59
1:AB:802:ILE:HG22	1:AB:802:ILE:O	2.01	0.59
2:AC:239:ASN:HB2	3:BG:67:TYR:HH	1.66	0.59
2:AE:157:ILE:HG12	2:AE:214:LEU:HD13	1.84	0.59
2:AE:306:ALA:HB2	3:BG:282:GLU:OE2	2.03	0.59
2:AK:157:ILE:HG12	2:AK:214:LEU:HD13	1.84	0.59
2:AM:69:THR:O	2:AM:69:THR:CG2	2.50	0.59
3:BF:170:ILE:CD1	3:BF:239:VAL:CG2	2.80	0.59
3:BF:275:PRO:CD	3:BF:276:THR:N	2.66	0.59
3:BF:285:MET:SD	3:BH:275:PRO:CB	2.90	0.59
3:BH:162:GLU:CB	3:BH:253:GLY:O	2.50	0.59
3:BH:246:ILE:O	3:BH:246:ILE:CG2	2.51	0.59
3:BI:129:VAL:O	3:BI:131:PRO:CD	2.41	0.59
3:BK:170:ILE:CD1	3:BK:239:VAL:CG2	2.80	0.59
3:BL:247:ARG:HD3	3:BL:321:ALA:HB1	1.83	0.59
3:BL:274:ASP:OD1	3:BL:276:THR:OG1	2.20	0.59
3:BM:76:PHE:HE2	3:BM:111:TRP:NE1	2.01	0.59
3:BN:170:ILE:CD1	3:BN:239:VAL:CG2	2.80	0.59
3:BO:125:ALA:HB1	3:BO:223:LYS:CB	2.33	0.59
3:BO:268:VAL:O	3:BO:269:LEU:HB2	2.03	0.59
3:BO:275:PRO:CB	3:BP:285:MET:SD	2.91	0.59
4:BX:566:ASP:O	4:BX:568:LEU:N	2.35	0.59
4:BX:670:ASN:O	4:BX:671:ARG:HB3	2.02	0.59
4:BX:716:PRO:CD	4:BY:750:ARG:NH2	2.60	0.59
4:BY:7:ARG:CD	4:BY:625:ALA:HA	2.33	0.59
1:AA:128:PRO:HG3	1:AA:148:TRP:CH2	2.35	0.59
1:AA:587:LEU:O	1:AA:588:ILE:HG13	2.03	0.59
1:AA:757:VAL:HG12	1:AA:758:ALA:H	1.68	0.59
1:AB:440:PHE:CD1	1:AB:518:PHE:CE1	2.91	0.59
2:AD:302:PRO:HA	3:BF:282:GLU:OE1	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AJ:157:ILE:HG12	2:AJ:214:LEU:HD13	1.84	0.59
2:AK:274:GLN:N	2:AK:274:GLN:HE21	2.00	0.59
2:AM:205:ILE:HG12	2:AM:295:MET:HG3	1.83	0.59
2:AN:255:ARG:CZ	3:BP:65:THR:HG1	2.15	0.59
2:AO:8:SER:O	2:AO:11:LEU:N	2.36	0.59
3:BA:274:ASP:OD1	3:BA:276:THR:OG1	2.20	0.59
3:BF:270:ASP:O	3:BG:288:ASN:ND2	2.36	0.59
3:BG:143:LYS:HA	3:BG:263:VAL:O	2.03	0.59
3:BH:149:GLN:CG	3:BH:150:LEU:N	2.66	0.59
3:BJ:274:ASP:OD1	3:BJ:276:THR:OG1	2.20	0.59
3:BK:56:ASN:O	3:BK:57:LEU:HG	2.03	0.59
3:BK:175:TYR:CE1	3:BK:237:LEU:HD22	2.37	0.59
3:BK:274:ASP:OD1	3:BK:276:THR:OG1	2.20	0.59
3:BM:268:VAL:HG11	3:BN:267:ASP:H	1.67	0.59
3:BN:274:ASP:OD1	3:BN:276:THR:OG1	2.20	0.59
3:BQ:274:ASP:OD1	3:BQ:276:THR:OG1	2.20	0.59
4:BX:632:ASN:O	4:BX:633:PHE:C	2.41	0.59
4:BX:633:PHE:HB3	4:BX:671:ARG:NH1	2.18	0.59
4:BX:672:ALA:HB2	4:BX:685:GLY:HA2	1.85	0.59
4:BY:47:PRO:CG	4:BY:419:VAL:HG13	2.28	0.59
4:BY:611:GLN:O	4:BY:612:THR:C	2.40	0.59
4:BY:627:GLN:O	4:BY:627:GLN:CD	2.42	0.59
4:BZ:540:ALA:O	4:BZ:544:MET:N	2.36	0.59
1:AA:116:VAL:CG1	1:AA:117:LYS:H	2.16	0.59
1:AA:142:LEU:O	1:AA:144:ASN:N	2.31	0.59
1:AB:180:TYR:HD1	1:AB:181:LEU:N	2.01	0.59
1:AB:863:VAL:HG12	1:AB:864:GLU:N	2.18	0.59
2:AK:205:ILE:HG12	2:AK:295:MET:HG3	1.83	0.59
2:AN:205:ILE:HG12	2:AN:295:MET:HG3	1.83	0.59
3:BA:275:PRO:CD	3:BA:276:THR:N	2.66	0.59
3:BH:148:LEU:O	3:BH:151:ASP:N	2.35	0.59
3:BJ:144:TYR:OH	3:BJ:146:ALA:HB2	2.03	0.59
3:BJ:268:VAL:CB	3:BK:266:SER:CB	2.41	0.59
3:BJ:313:ARG:O	3:BJ:314:SER:C	2.39	0.59
3:BK:125:ALA:HB1	3:BK:223:LYS:CB	2.32	0.59
3:BL:150:LEU:HD22	3:BM:290:LYS:HA	1.83	0.59
3:BL:255:ARG:CD	3:BL:257:ASN:ND2	2.66	0.59
3:BM:170:ILE:HD13	3:BM:239:VAL:CG2	2.32	0.59
3:BN:185:ILE:HG12	3:BN:226:ILE:HG12	1.84	0.59
3:BP:175:TYR:CE1	3:BP:237:LEU:HD22	2.37	0.59
4:BX:1:MET:H1	4:BX:1:MET:CE	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:516:GLN:HB2	4:BZ:572:ALA:CB	2.33	0.59
4:BX:731:ASN:CA	4:BX:736:ILE:HD12	2.30	0.59
4:BY:355:TYR:CE2	4:BY:424:LEU:HG	2.36	0.59
4:BY:628:THR:HG22	4:BY:629:GLU:H	1.68	0.59
4:BZ:589:SER:O	4:BZ:591:TRP:N	2.35	0.59
1:AA:332:VAL:O	1:AA:333:VAL:C	2.41	0.58
1:AB:258:GLN:HG3	2:AN:70:LEU:HA	1.85	0.58
1:AB:435:ILE:CG2	1:AB:436:ILE:H	2.06	0.58
1:AB:439:ALA:O	1:AB:518:PHE:CD1	2.56	0.58
1:AB:465:ASN:O	1:AB:466:PHE:C	2.41	0.58
1:AB:505:GLN:O	1:AB:508:GLU:OE1	2.21	0.58
1:AB:510:LEU:HD13	1:AB:537:SER:HA	1.85	0.58
2:AF:12:LYS:C	2:AF:14:ALA:H	2.06	0.58
2:AH:150:PHE:HB2	2:AH:152:PHE:HE1	1.66	0.58
2:AI:85:ILE:O	2:AI:89:VAL:HG23	2.03	0.58
2:AL:57:ARG:HH11	2:AL:94:ASN:ND2	1.96	0.58
2:AL:85:ILE:O	2:AL:89:VAL:HG23	2.03	0.58
2:AN:163:SER:OG	3:BO:62:SER:HA	2.02	0.58
2:AN:220:THR:O	2:AN:220:THR:CG2	2.39	0.58
3:BG:76:PHE:CE2	3:BG:111:TRP:NE1	2.71	0.58
3:BG:170:ILE:CD1	3:BG:239:VAL:CG2	2.80	0.58
3:BH:76:PHE:HE2	3:BH:111:TRP:NE1	2.01	0.58
3:BI:144:TYR:CE2	3:BI:146:ALA:CB	2.79	0.58
3:BI:266:SER:HB2	3:BK:268:VAL:O	2.03	0.58
3:BK:56:ASN:O	3:BK:57:LEU:CG	2.51	0.58
3:BL:125:ALA:HB1	3:BL:223:LYS:CB	2.33	0.58
3:BL:159:ILE:CG1	3:BL:160:LEU:N	2.63	0.58
3:BL:252:LEU:O	3:BL:253:GLY:C	2.40	0.58
3:BM:255:ARG:CD	3:BM:257:ASN:ND2	2.65	0.58
3:BO:285:MET:SD	3:BQ:276:THR:HA	2.43	0.58
3:BP:268:VAL:CG1	3:BQ:267:ASP:O	2.46	0.58
3:BQ:246:ILE:O	3:BQ:246:ILE:CG2	2.51	0.58
4:BX:259:THR:HG23	4:BY:262:TRP:H	1.67	0.58
4:BX:591:TRP:CZ3	4:BX:623:GLU:CD	2.76	0.58
4:BY:539:ASP:HA	4:BY:542:LYS:HG3	1.84	0.58
4:BY:540:ALA:O	4:BY:544:MET:N	2.31	0.58
4:BZ:694:ARG:HH12	4:BZ:701:ILE:CG2	2.15	0.58
1:AA:516:GLN:OE1	1:AA:516:GLN:N	2.31	0.58
1:AA:810:TYR:O	1:AA:812:VAL:N	2.37	0.58
1:AB:745:ALA:O	1:AB:748:THR:N	2.36	0.58
1:AB:789:LEU:HB3	1:AB:791:LYS:HE3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:106:ARG:H	2:AC:106:ARG:CD	2.12	0.58
2:AC:243:GLY:O	3:BG:67:TYR:CA	2.43	0.58
2:AD:153:HIS:NE2	2:AE:153:HIS:NE2	2.51	0.58
2:AI:274:GLN:N	2:AI:274:GLN:HE21	2.00	0.58
2:AK:142:GLN:HE21	2:AK:143:ASN:N	2.01	0.58
3:BF:159:ILE:CG1	3:BF:160:LEU:N	2.63	0.58
3:BF:185:ILE:HG12	3:BF:226:ILE:HG12	1.84	0.58
3:BH:275:PRO:CD	3:BH:276:THR:N	2.66	0.58
3:BI:251:LYS:HZ1	3:BI:271:ILE:CG2	2.15	0.58
3:BI:310:MET:CG	3:BI:311:SER:N	2.62	0.58
3:BJ:76:PHE:HE2	3:BJ:111:TRP:NE1	2.01	0.58
3:BJ:128:SER:HB2	3:BJ:224:LEU:HD22	1.86	0.58
3:BL:252:LEU:HG	3:BL:253:GLY:H	1.68	0.58
3:BL:285:MET:SD	3:BN:275:PRO:CB	2.91	0.58
3:BM:175:TYR:CE1	3:BM:237:LEU:HD22	2.37	0.58
4:BX:520:LEU:HD13	4:BZ:568:LEU:HD12	1.85	0.58
4:BX:618:ARG:O	4:BX:622:LYS:HB2	2.03	0.58
4:BY:618:ARG:CB	4:BY:622:LYS:HD2	2.33	0.58
4:BY:657:PRO:O	4:BY:659:ILE:N	2.36	0.58
4:BZ:264:GLU:CD	4:BZ:264:GLU:N	2.56	0.58
1:AA:283:ASN:O	1:AA:863:VAL:HG23	2.02	0.58
1:AA:501:HIS:C	1:AA:503:VAL:H	2.05	0.58
1:AB:176:GLU:O	1:AB:178:PRO:CD	2.51	0.58
1:AB:779:ASP:N	1:AB:798:ILE:HD11	2.18	0.58
2:AG:313:PRO:HD2	3:BJ:279:PRO:HB2	1.81	0.58
2:AH:76:ASN:HB2	2:AJ:76:ASN:CA	2.33	0.58
2:AH:205:ILE:HG12	2:AH:295:MET:HG3	1.83	0.58
2:AJ:12:LYS:C	2:AJ:14:ALA:H	2.07	0.58
2:AJ:34:PHE:HD2	2:AJ:66:LEU:HD12	1.67	0.58
2:AK:269:ILE:N	4:BX:700:GLU:OE1	2.36	0.58
3:BG:69:ASN:HB3	4:BY:507:ALA:CB	2.33	0.58
3:BL:121:TYR:CB	3:BL:127:PHE:HB2	2.30	0.58
4:BX:482:THR:O	4:BX:482:THR:CG2	2.37	0.58
4:BY:265:MET:CE	4:BY:477:ASN:HD21	2.16	0.58
4:BY:633:PHE:CB	4:BY:671:ARG:HH11	2.15	0.58
1:AA:262:VAL:CG2	1:AA:848:PHE:CE2	2.65	0.58
1:AA:366:PHE:C	1:AA:368:THR:N	2.49	0.58
1:AA:499:ASN:HA	1:AA:505:GLN:HE21	1.68	0.58
1:AA:523:VAL:O	1:AA:526:LYS:HG2	2.04	0.58
1:AA:713:GLU:O	1:AA:720:TYR:HB2	2.02	0.58
1:AA:771:VAL:O	1:AA:774:LEU:N	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:848:PHE:O	1:AB:849:THR:HB	2.03	0.58
2:AC:12:LYS:C	2:AC:14:ALA:H	2.07	0.58
2:AC:157:ILE:HG12	2:AC:214:LEU:HD13	1.84	0.58
2:AD:274:GLN:N	2:AD:274:GLN:HE21	2.00	0.58
2:AI:313:PRO:HD2	3:BL:279:PRO:HB2	1.85	0.58
2:AK:24:TYR:O	2:AK:27:VAL:HG22	2.02	0.58
2:AN:157:ILE:HG12	2:AN:214:LEU:HD13	1.84	0.58
3:BA:185:ILE:HG12	3:BA:226:ILE:HG12	1.84	0.58
3:BA:222:GLU:HB2	3:BA:225:VAL:HG23	1.84	0.58
3:BF:159:ILE:HG13	3:BF:160:LEU:H	1.66	0.58
3:BF:210:THR:HG21	4:BZ:379:ILE:CG1	2.34	0.58
3:BG:255:ARG:CD	3:BG:257:ASN:ND2	2.67	0.58
3:BI:87:THR:HG1	3:BI:122:THR:HG22	1.67	0.58
3:BI:128:SER:OG	3:BI:224:LEU:CD2	2.50	0.58
3:BI:162:GLU:N	3:BI:253:GLY:O	2.37	0.58
3:BJ:167:PRO:O	3:BL:117:TYR:CE2	2.56	0.58
3:BJ:246:ILE:O	3:BJ:246:ILE:CG2	2.51	0.58
3:BL:246:ILE:O	3:BL:246:ILE:CG2	2.51	0.58
3:BM:246:ILE:O	3:BM:246:ILE:CG2	2.51	0.58
3:BO:55:ILE:HD13	3:BO:322:PHE:C	2.23	0.58
3:BO:55:ILE:HG23	3:BO:322:PHE:CB	2.33	0.58
3:BO:170:ILE:CD1	3:BO:239:VAL:CG2	2.80	0.58
3:BP:150:LEU:HD21	3:BQ:290:LYS:CG	2.34	0.58
3:BP:322:PHE:HB3	3:BP:323:TYR:HD1	1.69	0.58
4:BY:674:ARG:CG	4:BY:720:ALA:HB2	2.33	0.58
4:BY:750:ARG:O	4:BY:752:LEU:N	2.36	0.58
4:BZ:590:ALA:HA	4:BZ:594:VAL:CG2	2.33	0.58
1:AA:389:GLN:OE1	1:AA:567:HIS:HA	2.03	0.58
1:AA:660:ASP:HB3	1:AB:539:ARG:NH1	2.14	0.58
2:AC:85:ILE:O	2:AC:89:VAL:HG23	2.03	0.58
2:AE:24:TYR:O	2:AE:27:VAL:HG22	2.02	0.58
2:AF:260:GLU:HG2	2:AF:274:GLN:HG3	1.86	0.58
2:AG:85:ILE:O	2:AG:89:VAL:HG23	2.03	0.58
2:AK:12:LYS:C	2:AK:14:ALA:H	2.07	0.58
2:AO:274:GLN:N	2:AO:274:GLN:HE21	2.00	0.58
3:BA:76:PHE:HE2	3:BA:111:TRP:NE1	2.01	0.58
3:BA:252:LEU:CG	3:BA:253:GLY:N	2.49	0.58
3:BG:300:VAL:HA	3:BG:303:VAL:HG22	1.86	0.58
3:BI:261:ILE:HG23	3:BI:285:MET:HG3	1.86	0.58
3:BK:76:PHE:HE2	3:BK:111:TRP:NE1	2.01	0.58
3:BK:162:GLU:HB2	3:BK:253:GLY:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:121:TYR:CB	3:BN:127:PHE:HB2	2.30	0.58
3:BN:200:THR:HG22	4:BX:493:ASP:CG	2.24	0.58
3:BO:222:GLU:HB2	3:BO:225:VAL:HG23	1.84	0.58
3:BO:246:ILE:O	3:BO:246:ILE:CG2	2.51	0.58
3:BQ:261:ILE:HG23	3:BQ:285:MET:HG3	1.86	0.58
4:BX:2:ALA:HA	4:BX:5:ILE:CG2	2.34	0.58
4:BX:35:ILE:CG2	4:BY:482:THR:O	2.51	0.58
4:BX:257:SER:CB	4:BX:257:SER:HG	2.08	0.58
4:BX:518:ILE:O	4:BX:521:ALA:HB3	2.03	0.58
4:BX:525:LEU:HD21	4:BX:642:LYS:HB2	1.85	0.58
4:BX:631:MET:CE	4:BX:749:PRO:HA	2.32	0.58
4:BY:351:VAL:HG23	4:BY:430:LEU:HD21	1.83	0.58
4:BY:636:ILE:HD11	4:BY:721:ILE:CD1	2.33	0.58
4:BZ:272:THR:CG2	4:BZ:305:TYR:CE2	2.87	0.58
1:AA:622:VAL:HG21	1:AA:672:LEU:HB2	1.84	0.58
1:AA:783:PHE:N	1:AA:783:PHE:CD1	2.71	0.58
1:AB:182:LEU:CD2	1:AB:846:LEU:HA	2.33	0.58
1:AB:245:LEU:HD12	1:AB:250:HIS:HA	1.86	0.58
1:AB:394:LEU:O	1:AB:396:PHE:N	2.37	0.58
2:AE:260:GLU:HG2	2:AE:274:GLN:HG3	1.86	0.58
2:AI:7:LEU:O	2:AI:11:LEU:HG	2.04	0.58
2:AI:8:SER:O	2:AI:11:LEU:N	2.37	0.58
2:AJ:150:PHE:HB2	2:AJ:152:PHE:HE1	1.68	0.58
2:AN:142:GLN:HE21	2:AN:143:ASN:N	2.01	0.58
3:BJ:170:ILE:HD13	3:BJ:239:VAL:CG2	2.32	0.58
3:BM:274:ASP:OD1	3:BM:276:THR:OG1	2.20	0.58
3:BO:284:MET:C	3:BO:285:MET:HE3	2.23	0.58
3:BQ:125:ALA:HB1	3:BQ:223:LYS:CB	2.32	0.58
3:BQ:222:GLU:HB2	3:BQ:225:VAL:HG23	1.84	0.58
4:BX:48:VAL:CG2	4:BX:419:VAL:HG11	2.33	0.58
4:BX:611:GLN:O	4:BX:612:THR:C	2.40	0.58
4:BX:631:MET:HE2	4:BX:752:LEU:HD23	1.85	0.58
4:BX:655:THR:O	4:BX:657:PRO:O	2.20	0.58
4:BY:670:ASN:O	4:BY:671:ARG:CB	2.52	0.58
4:BZ:524:PRO:O	4:BZ:526:ASP:N	2.36	0.58
4:BZ:670:ASN:O	4:BZ:671:ARG:CB	2.51	0.58
1:AA:436:ILE:O	1:AA:440:PHE:HB3	2.03	0.58
1:AB:118:LYS:CG	1:AB:119:GLN:H	2.16	0.58
2:AC:7:LEU:O	2:AC:11:LEU:HG	2.04	0.58
2:AD:12:LYS:C	2:AD:14:ALA:H	2.07	0.58
2:AF:5:TYR:CE2	2:AF:131:ASN:HA	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AF:85:ILE:O	2:AF:89:VAL:HG23	2.03	0.58
2:AJ:171:PRO:HB3	3:BM:312:LYS:CE	2.34	0.58
2:AL:313:PRO:CD	3:BP:279:PRO:HB2	2.32	0.58
2:AM:85:ILE:O	2:AM:89:VAL:HG23	2.03	0.58
2:AM:310:ASN:HB2	3:BQ:180:GLU:OE1	2.03	0.58
3:BI:185:ILE:HG12	3:BI:226:ILE:HG12	1.84	0.58
3:BI:266:SER:HA	3:BK:268:VAL:O	2.03	0.58
3:BJ:317:LEU:HG	3:BJ:318:ASN:H	1.69	0.58
3:BJ:324:TYR:O	3:BJ:325:ARG:CB	2.33	0.58
3:BK:170:ILE:HD13	3:BK:239:VAL:CG2	2.32	0.58
3:BL:76:PHE:HE2	3:BL:111:TRP:NE1	2.01	0.58
3:BM:275:PRO:CB	3:BN:285:MET:SD	2.91	0.58
3:BN:246:ILE:O	3:BN:246:ILE:CG2	2.51	0.58
3:BP:69:ASN:HD21	4:BX:598:ILE:CD1	2.16	0.58
3:BP:222:GLU:HB2	3:BP:225:VAL:HG23	1.84	0.58
3:BP:315:ARG:HG3	3:BP:323:TYR:O	2.03	0.58
4:BX:557:LEU:CD1	4:BX:664:SER:HB3	2.34	0.58
4:BY:47:PRO:HB3	4:BY:419:VAL:HG13	1.75	0.58
4:BY:49:ASN:C	4:BY:50:TRP:CG	2.77	0.58
4:BY:531:PHE:N	4:BY:531:PHE:CD1	2.71	0.58
4:BY:708:PHE:CE2	4:BY:712:VAL:HG21	2.39	0.58
4:BY:736:ILE:HG22	4:BY:741:ALA:HB2	1.84	0.58
4:BZ:708:PHE:CE2	4:BZ:712:VAL:HG21	2.39	0.58
1:AA:122:LEU:HD13	1:AA:245:LEU:CD2	2.21	0.58
1:AA:661:GLN:NE2	1:AB:348:LYS:HZ3	1.96	0.58
1:AB:200:VAL:HG12	1:AB:201:ASP:N	2.18	0.58
1:AB:786:ILE:HG22	1:AB:790:ARG:NH2	2.19	0.58
2:AC:8:SER:O	2:AC:11:LEU:N	2.37	0.58
2:AC:364:GLY:H	4:BY:733:ASN:HB3	1.59	0.58
2:AD:85:ILE:O	2:AD:89:VAL:HG23	2.03	0.58
2:AI:5:TYR:CE2	2:AI:131:ASN:HA	2.39	0.58
2:AI:76:ASN:CA	2:AM:76:ASN:HB2	2.33	0.58
2:AJ:260:GLU:HG2	2:AJ:274:GLN:HG3	1.86	0.58
2:AK:260:GLU:HG2	2:AK:274:GLN:HG3	1.86	0.58
2:AM:260:GLU:HG2	2:AM:274:GLN:HG3	1.86	0.58
2:AO:150:PHE:HB2	2:AO:152:PHE:CE1	2.38	0.58
3:BK:256:GLU:HB2	3:BK:313:ARG:O	2.04	0.58
4:BX:31:GLN:HB3	4:BY:34:THR:HB	1.86	0.58
4:BX:674:ARG:CG	4:BX:720:ALA:HB2	2.33	0.58
4:BY:463:GLU:HG2	4:BY:464:VAL:N	2.19	0.58
1:AA:404:LEU:O	1:AA:407:GLY:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:211:ILE:O	1:AB:212:PHE:C	2.40	0.58
1:AB:218:GLU:O	1:AB:221:VAL:HG23	2.02	0.58
1:AB:340:VAL:O	1:AB:587:LEU:HD11	2.04	0.58
1:AB:480:PHE:CE2	1:AB:493:LEU:O	2.57	0.58
2:AE:270:ILE:C	4:BY:728:LYS:CE	2.67	0.58
2:AO:12:LYS:C	2:AO:14:ALA:H	2.07	0.58
3:BF:76:PHE:HE2	3:BF:111:TRP:NE1	2.01	0.58
3:BG:125:ALA:HB1	3:BG:223:LYS:CB	2.33	0.58
3:BI:76:PHE:HE2	3:BI:111:TRP:NE1	2.01	0.58
3:BI:274:ASP:OD1	3:BI:276:THR:OG1	2.20	0.58
3:BJ:261:ILE:HG23	3:BJ:285:MET:HG3	1.86	0.58
3:BN:125:ALA:HB1	3:BN:223:LYS:CB	2.32	0.58
3:BN:261:ILE:HG23	3:BN:285:MET:HG3	1.86	0.58
3:BO:257:ASN:ND2	3:BO:313:ARG:HB2	2.19	0.58
3:BO:300:VAL:HA	3:BO:303:VAL:HG22	1.86	0.58
3:BO:311:SER:OG	3:BO:312:LYS:N	2.36	0.58
4:BX:37:LEU:CD1	4:BX:480:TYR:HE2	2.16	0.58
4:BX:590:ALA:HA	4:BX:594:VAL:HG23	1.85	0.58
4:BX:599:THR:HA	4:BX:614:THR:HG21	1.86	0.58
4:BX:636:ILE:HD11	4:BX:721:ILE:CD1	2.34	0.58
4:BX:657:PRO:O	4:BX:659:ILE:N	2.37	0.58
4:BY:272:THR:O	4:BY:303:TYR:CE1	2.56	0.58
4:BY:350:TYR:CE1	4:BY:427:ARG:NE	2.72	0.58
4:BY:656:LEU:HB2	4:BY:657:PRO:HD3	1.86	0.58
4:BZ:627:GLN:CD	4:BZ:627:GLN:O	2.41	0.58
4:BZ:710:ASP:CG	4:BZ:711:LEU:H	2.07	0.58
1:AB:94:THR:HG23	1:AB:658:PRO:CG	2.34	0.58
1:AB:141:GLU:O	1:AB:142:LEU:HB2	2.03	0.58
1:AB:264:PRO:O	1:AB:265:LEU:HB2	2.03	0.58
1:AB:527:ARG:O	1:AB:531:ARG:HG2	2.04	0.58
2:AE:142:GLN:HE21	2:AE:143:ASN:N	2.01	0.58
2:AF:8:SER:O	2:AF:11:LEU:N	2.37	0.58
2:AF:69:THR:OG1	2:AF:70:LEU:N	2.35	0.58
2:AJ:85:ILE:O	2:AJ:89:VAL:HG23	2.03	0.58
2:AL:5:TYR:CE2	2:AL:131:ASN:HA	2.39	0.58
3:BG:132:GLN:CG	3:BG:319:SER:HB3	2.32	0.58
3:BG:185:ILE:HG12	3:BG:226:ILE:HG12	1.84	0.58
3:BG:246:ILE:O	3:BG:246:ILE:CG2	2.51	0.58
3:BG:261:ILE:HG23	3:BG:285:MET:HG3	1.86	0.58
3:BI:84:TYR:CD2	3:BI:127:PHE:CE1	2.92	0.58
3:BI:181:ALA:O	3:BI:250:LYS:CA	2.23	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:300:VAL:HA	3:BI:303:VAL:HG22	1.86	0.58
3:BK:246:ILE:O	3:BK:246:ILE:CG2	2.51	0.58
3:BL:290:LYS:CB	3:BN:150:LEU:CD2	2.79	0.58
3:BM:261:ILE:HG23	3:BM:285:MET:HG3	1.86	0.58
3:BM:300:VAL:HA	3:BM:303:VAL:HG22	1.86	0.58
3:BN:173:TYR:HA	4:BX:489:THR:CB	2.34	0.58
3:BN:316:SER:HB3	3:BP:323:TYR:HD2	1.68	0.58
3:BP:96:ASN:HB2	4:BX:39:PRO:CG	2.33	0.58
3:BP:246:ILE:CG2	3:BP:246:ILE:O	2.51	0.58
3:BP:310:MET:CG	3:BP:311:SER:N	2.58	0.58
3:BP:313:ARG:HG3	3:BP:316:SER:H	1.69	0.58
3:BQ:59:ILE:HG22	3:BQ:60:THR:O	2.04	0.58
3:BQ:252:LEU:CG	3:BQ:253:GLY:N	2.37	0.58
4:BX:9:LEU:HB3	4:BX:549:MET:CE	2.34	0.58
4:BX:640:VAL:O	4:BX:643:THR:HB	2.04	0.58
4:BX:679:ASP:C	4:BX:680:GLU:HG2	2.22	0.58
4:BY:724:PHE:O	4:BY:725:LYS:C	2.40	0.58
4:BZ:412:SER:N	4:BZ:423:SER:O	2.37	0.58
4:BZ:718:ILE:CD1	4:BZ:746:ARG:HA	2.30	0.58
1:AA:496:ASN:ND2	1:AA:498:ARG:HB2	2.19	0.57
1:AA:510:LEU:HD11	1:AA:537:SER:HB3	1.84	0.57
1:AB:126:PHE:HD2	1:AB:126:PHE:H	1.50	0.57
1:AB:304:LEU:HA	2:AM:69:THR:HG23	1.86	0.57
2:AD:76:ASN:HB2	2:AL:76:ASN:CB	2.34	0.57
2:AM:130:ASP:OD2	2:AN:17:LYS:HE3	2.04	0.57
2:AM:153:HIS:NE2	2:AN:153:HIS:NE2	2.51	0.57
2:AN:12:LYS:C	2:AN:14:ALA:H	2.07	0.57
3:BA:115:SER:O	3:BA:117:TYR:CE2	2.56	0.57
3:BA:300:VAL:HA	3:BA:303:VAL:HG22	1.86	0.57
3:BF:300:VAL:HA	3:BF:303:VAL:HG22	1.86	0.57
3:BG:52:ASN:HD22	3:BO:55:ILE:HB	1.69	0.57
3:BG:129:VAL:CG2	3:BG:187:MET:HG3	2.34	0.57
3:BG:313:ARG:CG	3:BO:322:PHE:HD1	2.17	0.57
3:BI:246:ILE:O	3:BI:246:ILE:CG2	2.51	0.57
3:BK:125:ALA:C	3:BK:223:LYS:HZ2	2.07	0.57
3:BL:300:VAL:HA	3:BL:303:VAL:HG22	1.86	0.57
3:BO:252:LEU:O	3:BO:253:GLY:C	2.40	0.57
3:BO:268:VAL:HG13	3:BO:269:LEU:H	1.61	0.57
3:BP:300:VAL:HA	3:BP:303:VAL:HG22	1.86	0.57
4:BX:480:TYR:CE2	4:BY:40:PHE:CE1	2.92	0.57
4:BY:10:LEU:HD21	4:BY:552:PHE:CD2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:525:LEU:HD21	4:BY:642:LYS:HB2	1.86	0.57
4:BY:620:ARG:NH1	4:BY:686:THR:HG21	2.18	0.57
4:BZ:509:SER:O	4:BZ:511:GLU:N	2.37	0.57
1:AA:491:GLN:HB3	1:AA:564:ASN:HB3	1.86	0.57
2:AG:153:HIS:NE2	2:AH:153:HIS:NE2	2.51	0.57
2:AJ:153:HIS:NE2	2:AK:153:HIS:NE2	2.51	0.57
2:AK:85:ILE:O	2:AK:89:VAL:HG23	2.04	0.57
2:AL:359:PRO:N	4:BX:701:ILE:HD11	2.20	0.57
3:BA:246:ILE:O	3:BA:246:ILE:CG2	2.51	0.57
3:BF:261:ILE:HG23	3:BF:285:MET:HG3	1.86	0.57
3:BG:275:PRO:CD	3:BG:276:THR:N	2.66	0.57
3:BH:261:ILE:HG23	3:BH:285:MET:HG3	1.86	0.57
3:BK:300:VAL:HA	3:BK:303:VAL:HG22	1.86	0.57
3:BL:109:LYS:HE3	4:BX:496:ARG:HH21	1.69	0.57
3:BM:125:ALA:HB1	3:BM:223:LYS:CB	2.32	0.57
3:BM:310:MET:CG	3:BM:311:SER:N	2.58	0.57
3:BO:174:TYR:HD1	3:BO:198:LEU:HD12	1.63	0.57
3:BP:162:GLU:N	3:BP:253:GLY:O	2.33	0.57
4:BY:284:SER:HB2	4:BY:290:LYS:HB2	1.85	0.57
4:BY:517:LEU:CD1	4:BY:639:ALA:HB1	2.34	0.57
4:BZ:613:SER:O	4:BZ:616:SER:N	2.31	0.57
4:BZ:632:ASN:O	4:BZ:635:ASP:N	2.36	0.57
1:AA:188:VAL:O	1:AA:198:LYS:HA	2.04	0.57
1:AA:513:LEU:CA	1:AA:516:GLN:HE22	1.98	0.57
1:AA:520:THR:HG21	1:AA:526:LYS:HB3	1.85	0.57
1:AA:530:GLN:HA	1:AA:533:ILE:HD12	1.85	0.57
1:AA:871:PHE:O	1:AA:871:PHE:HD1	1.86	0.57
1:AB:244:ILE:HD12	1:AB:838:SER:O	2.04	0.57
1:AB:816:ASP:O	1:AB:817:TRP:HB2	2.02	0.57
2:AF:7:LEU:O	2:AF:11:LEU:HG	2.04	0.57
2:AF:219:THR:CG2	2:AF:220:THR:N	2.68	0.57
2:AI:310:ASN:CB	3:BL:180:GLU:CD	2.73	0.57
2:AI:356:PRO:HB3	4:BX:735:GLY:HA3	1.85	0.57
2:AM:219:THR:CG2	2:AM:220:THR:N	2.68	0.57
2:AN:310:ASN:OD1	3:BP:305:GLN:NE2	2.37	0.57
3:BA:125:ALA:C	3:BA:223:LYS:HZ2	2.06	0.57
3:BH:310:MET:CG	3:BH:311:SER:N	2.58	0.57
3:BI:132:GLN:CA	3:BI:319:SER:CB	2.82	0.57
3:BJ:125:ALA:HB1	3:BJ:223:LYS:CB	2.32	0.57
3:BJ:185:ILE:HG12	3:BJ:226:ILE:HG12	1.84	0.57
3:BJ:321:ALA:HA	3:BJ:325:ARG:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:261:ILE:HG23	3:BP:285:MET:HG3	1.86	0.57
4:BX:738:ARG:NH1	4:BX:738:ARG:HG2	2.18	0.57
4:BY:263:LYS:CB	4:BY:477:ASN:ND2	2.64	0.57
4:BZ:416:THR:CG2	4:BZ:417:ASP:H	2.17	0.57
1:AB:635:GLN:HE22	1:AB:740:ARG:HH22	1.51	0.57
1:AB:810:TYR:O	1:AB:812:VAL:N	2.36	0.57
2:AC:5:TYR:CE2	2:AC:131:ASN:HA	2.39	0.57
2:AE:69:THR:O	2:AE:70:LEU:CB	2.51	0.57
2:AF:157:ILE:HG12	2:AF:214:LEU:HD13	1.84	0.57
2:AH:219:THR:CG2	2:AH:220:THR:N	2.68	0.57
2:AJ:255:ARG:NE	3:BN:65:THR:OG1	2.37	0.57
2:AL:8:SER:O	2:AL:11:LEU:N	2.37	0.57
2:AL:12:LYS:C	2:AL:14:ALA:H	2.07	0.57
2:AL:219:THR:CG2	2:AL:220:THR:N	2.68	0.57
2:AL:359:PRO:CA	4:BX:701:ILE:HD11	2.34	0.57
2:AN:260:GLU:HG2	2:AN:274:GLN:HG3	1.86	0.57
2:AO:73:LEU:HD22	2:AO:77:TYR:CD2	2.38	0.57
2:AO:144:ARG:O	2:AO:145:ARG:HG2	2.04	0.57
2:AO:219:THR:CG2	2:AO:220:THR:N	2.68	0.57
3:BF:246:ILE:O	3:BF:246:ILE:CG2	2.51	0.57
3:BG:73:GLU:HB2	4:BY:504:GLU:HG2	1.86	0.57
3:BG:129:VAL:HG22	3:BG:187:MET:CB	2.33	0.57
3:BJ:174:TYR:CD1	3:BJ:198:LEU:HD11	2.34	0.57
3:BL:84:TYR:HB2	3:BL:140:VAL:HG23	1.87	0.57
3:BL:144:TYR:CE2	3:BL:146:ALA:CB	2.79	0.57
3:BM:150:LEU:HD21	3:BN:290:LYS:CB	2.35	0.57
3:BP:256:GLU:HB3	3:BP:311:SER:O	2.05	0.57
4:BX:74:PHE:CD1	4:BX:287:LEU:HD11	2.40	0.57
1:AA:421:ARG:CB	1:AB:523:VAL:HG21	2.35	0.57
1:AA:721:VAL:HG13	1:AA:800:TYR:O	2.04	0.57
1:AB:506:LEU:HD21	1:AB:543:LEU:HB3	1.85	0.57
1:AB:606:VAL:O	1:AB:607:ASN:C	2.43	0.57
1:AB:645:PHE:HD2	1:AB:646:LEU:HD23	1.70	0.57
2:AH:88:PHE:O	2:AH:91:PHE:HB3	2.05	0.57
2:AO:7:LEU:O	2:AO:11:LEU:HG	2.05	0.57
3:BA:159:ILE:HG22	3:BA:258:VAL:CG1	2.35	0.57
3:BF:174:TYR:CE1	3:BF:198:LEU:CD1	2.81	0.57
3:BF:310:MET:CG	3:BF:311:SER:N	2.58	0.57
3:BJ:52:ASN:ND2	3:BL:58:PRO:C	2.57	0.57
3:BJ:159:ILE:HG22	3:BJ:258:VAL:CG1	2.35	0.57
3:BK:56:ASN:OD1	3:BK:56:ASN:C	2.42	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:275:PRO:CD	3:BK:276:THR:N	2.66	0.57
3:BM:185:ILE:HG12	3:BM:226:ILE:HG12	1.84	0.57
4:BX:515:SER:HB2	4:BX:516:GLN:NE2	2.20	0.57
4:BX:524:PRO:O	4:BX:526:ASP:N	2.38	0.57
4:BX:595:SER:OG	4:BX:618:ARG:NH1	2.38	0.57
4:BX:601:VAL:HG23	4:BX:601:VAL:O	2.05	0.57
4:BY:2:ALA:HA	4:BY:5:ILE:CG2	2.35	0.57
4:BZ:525:LEU:HD21	4:BZ:642:LYS:HB2	1.86	0.57
4:BZ:591:TRP:HA	4:BZ:618:ARG:CD	2.29	0.57
4:BZ:633:PHE:CB	4:BZ:671:ARG:HH11	2.16	0.57
4:BZ:672:ALA:HB2	4:BZ:685:GLY:HA2	1.84	0.57
4:BZ:679:ASP:C	4:BZ:680:GLU:HG2	2.24	0.57
1:AA:496:ASN:O	1:AA:497:ILE:C	2.42	0.57
1:AA:526:LYS:O	1:AA:529:ILE:HG22	2.04	0.57
1:AB:159:ASP:OD2	1:AB:761:GLY:HA2	2.04	0.57
1:AB:428:GLN:CG	1:AB:456:PHE:HD1	2.10	0.57
1:AB:577:GLN:C	1:AB:579:THR:N	2.57	0.57
2:AD:171:PRO:HB3	3:BH:312:LYS:HZ2	1.68	0.57
2:AF:163:SER:OG	3:BI:62:SER:HA	2.04	0.57
2:AH:260:GLU:HG2	2:AH:274:GLN:HG3	1.86	0.57
2:AN:88:PHE:O	2:AN:91:PHE:HB3	2.05	0.57
3:BF:290:LYS:CB	3:BH:150:LEU:CD2	2.79	0.57
3:BM:84:TYR:HB2	3:BM:140:VAL:HG23	1.87	0.57
3:BQ:133:LEU:HD12	3:BQ:255:ARG:HH21	1.69	0.57
3:BQ:208:LEU:C	3:BQ:210:THR:H	2.08	0.57
4:BX:16:VAL:HG23	4:BX:17:ASP:N	2.19	0.57
4:BX:495:GLU:O	4:BX:499:GLY:N	2.34	0.57
4:BX:501:LEU:CD1	4:BX:655:THR:HG21	2.35	0.57
4:BX:509:SER:O	4:BX:511:GLU:N	2.38	0.57
4:BX:626:THR:HG23	4:BY:524:PRO:HD3	1.87	0.57
4:BX:710:ASP:CG	4:BX:711:LEU:H	2.08	0.57
4:BY:30:THR:HG22	4:BY:31:GLN:O	2.03	0.57
4:BY:481:GLN:O	4:BY:481:GLN:CG	2.51	0.57
4:BY:540:ALA:C	4:BY:544:MET:CG	2.72	0.57
4:BY:710:ASP:CG	4:BY:711:LEU:H	2.07	0.57
4:BZ:660:VAL:O	4:BZ:663:ALA:HB3	2.04	0.57
4:BZ:738:ARG:NH1	4:BZ:738:ARG:HG2	2.18	0.57
1:AA:619:ASN:OD1	1:AA:675:GLU:HG2	2.04	0.57
1:AB:118:LYS:CG	1:AB:119:GLN:N	2.68	0.57
1:AB:389:GLN:NE2	1:AB:493:LEU:HD11	2.12	0.57
1:AB:491:GLN:O	1:AB:565:MET:CG	2.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:653:ASP:O	1:AB:654:ILE:C	2.43	0.57
2:AD:171:PRO:HB3	3:BH:312:LYS:CD	2.35	0.57
2:AD:310:ASN:HB3	3:BH:180:GLU:CD	2.25	0.57
2:AG:12:LYS:C	2:AG:14:ALA:H	2.07	0.57
2:AH:76:ASN:HB3	2:AJ:76:ASN:HB2	1.83	0.57
2:AK:8:SER:O	2:AK:11:LEU:N	2.37	0.57
2:AN:8:SER:O	2:AN:11:LEU:N	2.37	0.57
3:BA:84:TYR:HB2	3:BA:140:VAL:HG23	1.87	0.57
3:BF:150:LEU:HD21	3:BG:290:LYS:HE2	1.85	0.57
3:BF:255:ARG:CD	3:BF:257:ASN:ND2	2.67	0.57
3:BG:159:ILE:HG22	3:BG:258:VAL:CG1	2.35	0.57
3:BH:159:ILE:HG22	3:BH:258:VAL:CG1	2.35	0.57
3:BI:123:ASP:CG	3:BI:126:SER:H	2.08	0.57
3:BK:256:GLU:CB	3:BK:313:ARG:O	2.52	0.57
3:BO:142:MET:CE	3:BO:152:MET:CE	2.82	0.57
3:BO:162:GLU:CD	3:BO:315:ARG:HG3	2.24	0.57
3:BQ:300:VAL:HA	3:BQ:303:VAL:HG22	1.86	0.57
4:BX:643:THR:HG22	4:BX:644:LYS:N	2.19	0.57
4:BY:18:LEU:HD22	4:BZ:19:SER:HB2	1.86	0.57
4:BY:617:ARG:CG	4:BY:620:ARG:HH21	2.10	0.57
4:BY:745:LEU:C	4:BY:747:SER:H	2.08	0.57
4:BZ:515:SER:HB2	4:BZ:516:GLN:NE2	2.19	0.57
1:AA:159:ASP:HB2	1:AA:736:GLU:HB2	1.86	0.57
1:AA:244:ILE:O	1:AA:245:LEU:HD23	2.04	0.57
1:AA:270:ILE:HG23	1:AA:854:LEU:HD22	1.86	0.57
2:AC:260:GLU:HG2	2:AC:274:GLN:HG3	1.86	0.57
2:AD:219:THR:CG2	2:AD:220:THR:N	2.68	0.57
2:AD:260:GLU:HG2	2:AD:274:GLN:HG3	1.86	0.57
2:AE:8:SER:O	2:AE:11:LEU:N	2.37	0.57
2:AE:239:ASN:ND2	3:BF:65:THR:HG22	2.20	0.57
2:AG:8:SER:O	2:AG:11:LEU:N	2.38	0.57
2:AG:255:ARG:NE	3:BK:65:THR:HG1	2.03	0.57
2:AG:260:GLU:HG2	2:AG:274:GLN:HG3	1.86	0.57
2:AI:260:GLU:HG2	2:AI:274:GLN:HG3	1.86	0.57
2:AK:7:LEU:O	2:AK:11:LEU:HG	2.05	0.57
2:AL:260:GLU:HG2	2:AL:274:GLN:HG3	1.86	0.57
2:AN:85:ILE:O	2:AN:89:VAL:HG23	2.04	0.57
2:AN:219:THR:CG2	2:AN:220:THR:N	2.68	0.57
3:BF:262:GLN:HB2	3:BF:267:ASP:OD2	2.05	0.57
3:BF:289:TRP:C	3:BH:150:LEU:HD22	2.21	0.57
3:BG:143:LYS:O	3:BG:144:TYR:C	2.43	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:144:TYR:CD2	3:BG:144:TYR:O	2.58	0.57
3:BG:313:ARG:CD	3:BO:322:PHE:CD1	2.84	0.57
3:BH:300:VAL:HA	3:BH:303:VAL:HG22	1.86	0.57
3:BI:167:PRO:O	3:BI:168:MET:HE3	2.03	0.57
3:BJ:150:LEU:HD23	3:BK:290:LYS:HG2	1.86	0.57
3:BN:208:LEU:C	3:BN:210:THR:H	2.08	0.57
3:BP:69:ASN:ND2	4:BX:598:ILE:CD1	2.68	0.57
3:BP:69:ASN:ND2	4:BX:598:ILE:HD11	2.19	0.57
3:BQ:174:TYR:HD1	3:BQ:198:LEU:HD12	1.64	0.57
4:BX:36:ASN:HB2	4:BY:480:TYR:O	2.05	0.57
4:BX:549:MET:O	4:BX:551:LYS:N	2.35	0.57
4:BX:613:SER:O	4:BX:616:SER:N	2.33	0.57
4:BY:29:LYS:O	4:BZ:321:ASN:OD1	2.22	0.57
4:BY:540:ALA:O	4:BY:544:MET:CG	2.53	0.57
4:BY:557:LEU:CD1	4:BY:664:SER:HB3	2.34	0.57
4:BZ:631:MET:HE2	4:BZ:752:LEU:HD23	1.87	0.57
4:BZ:750:ARG:O	4:BZ:753:ARG:N	2.38	0.57
1:AA:131:LEU:HD12	1:AA:132:PRO:CD	2.34	0.57
1:AA:186:MET:SD	1:AA:200:VAL:HG13	2.44	0.57
1:AA:346:ILE:HD11	1:AA:369:GLY:HA2	1.85	0.57
1:AB:433:ASN:C	1:AB:435:ILE:H	2.07	0.57
1:AB:518:PHE:HB2	1:AB:519:PRO:CD	2.34	0.57
2:AD:8:SER:O	2:AD:11:LEU:N	2.38	0.57
2:AJ:8:SER:O	2:AJ:11:LEU:N	2.38	0.57
2:AO:12:LYS:HG2	2:AO:16:ASP:OD2	2.05	0.57
2:AO:109:ILE:HD12	2:AO:109:ILE:O	2.05	0.57
3:BA:267:ASP:C	3:BA:268:VAL:HG23	2.26	0.57
3:BF:269:LEU:HA	3:BG:286:ARG:HH22	1.66	0.57
3:BI:159:ILE:HG22	3:BI:258:VAL:CG1	2.35	0.57
3:BJ:76:PHE:CE2	3:BJ:304:ASN:OD1	2.58	0.57
3:BJ:126:SER:O	3:BJ:129:VAL:HB	2.04	0.57
3:BM:76:PHE:CE2	3:BM:304:ASN:OD1	2.58	0.57
3:BP:93:ILE:HG23	3:BP:293:TRP:NE1	2.20	0.57
3:BQ:88:GLU:OE1	3:BQ:143:LYS:CE	2.53	0.57
4:BX:633:PHE:CB	4:BX:671:ARG:NH1	2.67	0.57
4:BZ:538:ILE:CG2	4:BZ:539:ASP:N	2.41	0.57
4:BZ:541:ALA:O	4:BZ:545:ALA:N	2.38	0.57
1:AA:130:GLN:O	1:AA:131:LEU:CB	2.53	0.57
1:AA:529:ILE:CG2	1:AA:530:GLN:N	2.68	0.57
1:AB:150:LEU:HD12	1:AB:696:SER:HA	1.87	0.57
1:AB:433:ASN:ND2	1:AB:446:HIS:CD2	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:770:SER:O	1:AB:771:VAL:C	2.42	0.57
2:AD:130:ASP:OD2	2:AE:17:LYS:HE3	2.05	0.57
2:AD:171:PRO:HG3	3:BH:312:LYS:HZ3	1.70	0.57
2:AE:85:ILE:O	2:AE:89:VAL:HG23	2.04	0.57
2:AH:8:SER:O	2:AH:11:LEU:N	2.37	0.57
2:AH:12:LYS:C	2:AH:14:ALA:H	2.07	0.57
2:AH:85:ILE:O	2:AH:89:VAL:HG23	2.04	0.57
2:AH:142:GLN:HE21	2:AH:143:ASN:N	2.02	0.57
2:AJ:12:LYS:HG2	2:AJ:16:ASP:OD2	2.05	0.57
2:AJ:299:ASN:CG	3:BN:71:THR:HG1	2.07	0.57
3:BH:93:ILE:HG23	3:BH:293:TRP:NE1	2.20	0.57
3:BJ:123:ASP:CG	3:BJ:126:SER:H	2.08	0.57
3:BK:123:ASP:CG	3:BK:126:SER:H	2.08	0.57
3:BK:208:LEU:C	3:BK:210:THR:H	2.08	0.57
3:BL:123:ASP:CG	3:BL:126:SER:H	2.08	0.57
3:BL:268:VAL:HG11	3:BL:280:GLN:NE2	2.19	0.57
3:BM:93:ILE:HG23	3:BM:293:TRP:NE1	2.20	0.57
3:BM:208:LEU:C	3:BM:210:THR:H	2.08	0.57
3:BN:93:ILE:HG23	3:BN:293:TRP:NE1	2.20	0.57
3:BP:125:ALA:HB1	3:BP:223:LYS:CB	2.34	0.57
3:BQ:76:PHE:HE2	3:BQ:304:ASN:OD1	1.87	0.57
4:BY:42:GLN:CG	4:BZ:329:ASN:HB3	2.32	0.57
4:BY:589:SER:O	4:BY:591:TRP:N	2.38	0.57
4:BZ:416:THR:O	4:BZ:418:PHE:N	2.38	0.57
4:BZ:632:ASN:O	4:BZ:633:PHE:C	2.44	0.57
1:AA:622:VAL:HG21	1:AA:672:LEU:CB	2.35	0.56
1:AB:122:LEU:HG	1:AB:201:ASP:HB3	1.86	0.56
1:AB:164:GLU:O	1:AB:167:LEU:HB3	2.05	0.56
1:AB:390:ARG:HG3	1:AB:391:THR:H	1.70	0.56
1:AB:460:GLU:O	1:AB:462:GLN:N	2.37	0.56
1:AB:765:PHE:O	1:AB:766:ILE:CD1	2.52	0.56
2:AC:219:THR:CG2	2:AC:220:THR:N	2.68	0.56
2:AD:12:LYS:HG2	2:AD:16:ASP:OD2	2.05	0.56
2:AH:310:ASN:CB	3:BK:180:GLU:OE1	2.52	0.56
2:AI:219:THR:CG2	2:AI:220:THR:N	2.68	0.56
2:AM:12:LYS:C	2:AM:14:ALA:H	2.07	0.56
3:BF:208:LEU:C	3:BF:210:THR:H	2.08	0.56
3:BG:56:ASN:O	3:BG:57:LEU:CB	2.53	0.56
3:BH:76:PHE:CE2	3:BH:304:ASN:OD1	2.58	0.56
3:BH:84:TYR:HB2	3:BH:140:VAL:HG23	1.87	0.56
3:BI:208:LEU:C	3:BI:210:THR:H	2.08	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:290:LYS:CB	3:BK:150:LEU:HD21	2.35	0.56
3:BK:159:ILE:HG22	3:BK:258:VAL:CG1	2.35	0.56
3:BK:307:ILE:HA	3:BK:310:MET:HE2	1.85	0.56
3:BO:55:ILE:CG2	3:BO:322:PHE:CB	2.82	0.56
3:BP:275:PRO:CB	3:BQ:285:MET:SD	2.91	0.56
3:BQ:127:PHE:CZ	3:BQ:159:ILE:HD11	2.40	0.56
3:BQ:159:ILE:HG22	3:BQ:258:VAL:CG1	2.35	0.56
4:BX:598:ILE:O	4:BX:598:ILE:HG23	2.04	0.56
4:BY:25:ILE:O	4:BY:29:LYS:N	2.35	0.56
4:BY:537:THR:CG2	4:BY:541:ALA:HB2	2.35	0.56
4:BY:603:SER:O	4:BY:604:SER:CB	2.52	0.56
4:BZ:598:ILE:HG23	4:BZ:598:ILE:O	2.04	0.56
1:AA:401:TYR:HA	1:AA:404:LEU:HD12	1.86	0.56
1:AA:527:ARG:NH1	1:AA:531:ARG:HH21	2.03	0.56
1:AA:783:PHE:O	1:AA:784:ALA:C	2.42	0.56
1:AA:810:TYR:CD1	1:AA:811:LEU:N	2.73	0.56
1:AB:413:VAL:CG1	1:AB:414:VAL:N	2.61	0.56
1:AB:442:MET:HE3	1:AB:463:ILE:HG12	1.87	0.56
2:AC:124:PHE:O	2:AC:127:ILE:HG13	2.06	0.56
2:AC:163:SER:HG	3:BG:62:SER:CA	2.03	0.56
2:AG:164:PHE:C	3:BJ:61:GLY:HA3	2.18	0.56
2:AJ:255:ARG:HD3	3:BN:65:THR:OG1	2.04	0.56
2:AK:30:LEU:O	2:AK:31:ILE:C	2.43	0.56
2:AK:219:THR:CG2	2:AK:220:THR:N	2.68	0.56
2:AN:164:PHE:N	3:BO:61:GLY:O	2.36	0.56
3:BA:76:PHE:CE2	3:BA:304:ASN:OD1	2.58	0.56
3:BA:127:PHE:CZ	3:BA:159:ILE:HD11	2.41	0.56
3:BA:252:LEU:O	3:BA:253:GLY:C	2.43	0.56
3:BA:255:ARG:CD	3:BA:257:ASN:ND2	2.66	0.56
3:BF:123:ASP:CG	3:BF:126:SER:H	2.08	0.56
3:BH:78:THR:O	3:BH:78:THR:HG22	2.04	0.56
3:BI:150:LEU:HD21	3:BJ:290:LYS:CB	2.35	0.56
3:BM:159:ILE:HG22	3:BM:258:VAL:CG1	2.35	0.56
3:BN:162:GLU:O	3:BN:163:TRP:CG	2.58	0.56
3:BQ:84:TYR:HB2	3:BQ:140:VAL:HG23	1.87	0.56
4:BX:284:SER:HB2	4:BX:290:LYS:HB2	1.85	0.56
4:BX:618:ARG:O	4:BX:619:LEU:C	2.44	0.56
4:BX:630:GLY:O	4:BX:632:ASN:ND2	2.39	0.56
4:BY:30:THR:CG2	4:BY:31:GLN:N	2.68	0.56
4:BY:679:ASP:C	4:BY:680:GLU:HG2	2.26	0.56
4:BY:738:ARG:HG2	4:BY:738:ARG:NH1	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:409:VAL:HG11	4:BZ:426:PHE:HE2	1.67	0.56
1:AA:122:LEU:HG	1:AA:201:ASP:HB2	1.86	0.56
1:AA:173:VAL:O	1:AA:177:MET:HB2	2.04	0.56
1:AA:265:LEU:CD2	1:AA:292:LEU:HD12	2.34	0.56
1:AA:289:ASP:O	1:AA:290:ARG:HD3	2.05	0.56
1:AB:160:TYR:OH	1:AB:633:LEU:HG	2.04	0.56
1:AB:193:SER:CB	1:AB:226:ALA:HA	2.34	0.56
1:AB:320:THR:HG21	1:AB:652:PHE:HB3	1.88	0.56
1:AB:630:ARG:CD	2:AL:71:LEU:HD13	2.35	0.56
1:AB:712:LEU:CB	1:AB:819:PRO:HB2	2.36	0.56
1:AB:811:LEU:HD23	1:AB:811:LEU:H	1.68	0.56
2:AC:239:ASN:CB	3:BG:67:TYR:OH	2.40	0.56
2:AD:22:THR:O	2:AD:72:ASN:HA	2.04	0.56
2:AD:128:ASN:O	2:AE:22:THR:HB	2.06	0.56
2:AD:150:PHE:HB2	2:AD:152:PHE:HE1	1.68	0.56
2:AE:88:PHE:O	2:AE:91:PHE:HB3	2.05	0.56
2:AF:88:PHE:O	2:AF:91:PHE:HB3	2.06	0.56
2:AG:12:LYS:HG2	2:AG:16:ASP:OD2	2.05	0.56
2:AI:12:LYS:C	2:AI:14:ALA:H	2.07	0.56
2:AJ:24:TYR:CB	2:AJ:70:LEU:O	2.51	0.56
2:AO:88:PHE:O	2:AO:91:PHE:HB3	2.05	0.56
3:BA:123:ASP:CG	3:BA:126:SER:H	2.08	0.56
3:BF:76:PHE:CE2	3:BF:304:ASN:OD1	2.58	0.56
3:BF:252:LEU:CG	3:BF:253:GLY:H	2.12	0.56
3:BG:129:VAL:C	3:BG:131:PRO:HD3	2.18	0.56
3:BG:275:PRO:CB	3:BH:285:MET:SD	2.91	0.56
3:BH:208:LEU:C	3:BH:210:THR:H	2.08	0.56
3:BI:70:SER:O	3:BI:71:THR:HB	2.06	0.56
3:BI:93:ILE:HG23	3:BI:293:TRP:NE1	2.20	0.56
3:BJ:132:GLN:O	3:BJ:133:LEU:C	2.44	0.56
3:BJ:275:PRO:CD	3:BJ:276:THR:N	2.66	0.56
3:BJ:313:ARG:O	3:BJ:316:SER:N	2.34	0.56
3:BJ:323:TYR:C	3:BJ:324:TYR:CG	2.78	0.56
3:BK:93:ILE:HG23	3:BK:293:TRP:NE1	2.20	0.56
3:BL:93:ILE:HG23	3:BL:293:TRP:NE1	2.20	0.56
3:BL:109:LYS:HE3	4:BX:496:ARG:NH2	2.19	0.56
3:BL:261:ILE:HG23	3:BL:285:MET:HG3	1.86	0.56
3:BO:127:PHE:CZ	3:BO:159:ILE:HD11	2.40	0.56
3:BO:208:LEU:C	3:BO:210:THR:H	2.08	0.56
3:BP:53:TYR:HD1	3:BP:322:PHE:HZ	1.52	0.56
3:BP:150:LEU:HD21	3:BQ:290:LYS:CB	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BQ:197:PRO:O	3:BQ:205:ILE:HG22	2.06	0.56
4:BX:33:VAL:HB	4:BY:36:ASN:ND2	2.18	0.56
4:BX:33:VAL:CB	4:BY:36:ASN:HB3	2.35	0.56
4:BX:426:PHE:O	4:BX:428:PHE:CD2	2.58	0.56
4:BX:531:PHE:N	4:BX:531:PHE:CD1	2.72	0.56
4:BX:540:ALA:O	4:BX:544:MET:N	2.39	0.56
4:BX:595:SER:HG	4:BX:618:ARG:HD2	1.69	0.56
4:BX:660:VAL:O	4:BX:663:ALA:HB3	2.04	0.56
4:BX:716:PRO:HD3	4:BY:750:ARG:HH21	1.65	0.56
4:BY:355:TYR:HD2	4:BY:424:LEU:HB2	1.68	0.56
4:BY:631:MET:HE2	4:BY:752:LEU:HD23	1.87	0.56
4:BZ:2:ALA:HA	4:BZ:5:ILE:CG2	2.35	0.56
4:BZ:517:LEU:CD1	4:BZ:639:ALA:HB1	2.35	0.56
4:BZ:603:SER:O	4:BZ:604:SER:CB	2.53	0.56
4:BZ:657:PRO:O	4:BZ:659:ILE:N	2.38	0.56
4:BZ:674:ARG:CG	4:BZ:720:ALA:HB2	2.36	0.56
1:AA:223:ARG:O	1:AA:226:ALA:HB3	2.05	0.56
1:AA:263:GLU:HB3	1:AA:264:PRO:HD2	1.88	0.56
1:AB:392:MET:HE1	1:AB:576:LEU:HD12	1.86	0.56
1:AB:506:LEU:CD2	1:AB:544:VAL:HA	2.35	0.56
1:AB:510:LEU:HA	1:AB:513:LEU:HD12	1.87	0.56
2:AD:171:PRO:HB3	3:BH:312:LYS:NZ	2.20	0.56
2:AE:23:LEU:HD22	2:AE:25:SER:OG	2.06	0.56
2:AE:219:THR:CG2	2:AE:220:THR:N	2.68	0.56
2:AF:12:LYS:HG2	2:AF:16:ASP:OD2	2.06	0.56
2:AH:23:LEU:HD22	2:AH:25:SER:OG	2.06	0.56
2:AH:38:ILE:HD13	2:AH:64:GLY:O	2.06	0.56
2:AL:124:PHE:O	2:AL:127:ILE:HG13	2.05	0.56
2:AM:8:SER:O	2:AM:11:LEU:N	2.38	0.56
2:AO:71:LEU:HG	2:AO:72:ASN:OD1	2.05	0.56
2:AO:133:SER:O	2:AO:136:ILE:HG22	2.05	0.56
3:BG:123:ASP:CG	3:BG:126:SER:H	2.08	0.56
3:BJ:208:LEU:C	3:BJ:210:THR:H	2.08	0.56
3:BJ:300:VAL:HA	3:BJ:303:VAL:HG22	1.86	0.56
3:BK:265:GLY:O	3:BK:266:SER:CB	2.52	0.56
3:BL:76:PHE:CE2	3:BL:304:ASN:OD1	2.58	0.56
3:BN:300:VAL:HA	3:BN:303:VAL:HG22	1.86	0.56
3:BP:208:LEU:C	3:BP:210:THR:H	2.08	0.56
3:BP:275:PRO:CD	3:BP:276:THR:N	2.66	0.56
4:BX:584:VAL:H	4:BX:596:THR:HG21	1.70	0.56
4:BY:263:LYS:CG	4:BY:477:ASN:CB	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:263:LYS:CG	4:BY:477:ASN:HB3	2.36	0.56
4:BY:617:ARG:HA	4:BY:620:ARG:NE	2.01	0.56
4:BZ:531:PHE:N	4:BZ:531:PHE:CD1	2.73	0.56
1:AA:356:GLU:HG2	1:AA:357:ALA:H	1.71	0.56
1:AA:705:ILE:HG12	1:AA:705:ILE:O	2.06	0.56
1:AB:252:PHE:O	1:AB:254:GLU:N	2.38	0.56
1:AB:518:PHE:HD2	2:AH:69:THR:HB	1.71	0.56
1:AB:803:ASN:N	1:AB:807:ASN:HD21	2.02	0.56
2:AE:12:LYS:C	2:AE:14:ALA:H	2.07	0.56
2:AF:133:SER:O	2:AF:136:ILE:HG22	2.05	0.56
2:AG:128:ASN:O	2:AH:22:THR:HB	2.06	0.56
2:AG:219:THR:CG2	2:AG:220:THR:N	2.68	0.56
2:AJ:299:ASN:OD1	3:BN:71:THR:CB	2.54	0.56
2:AK:310:ASN:CB	3:BN:180:GLU:OE1	2.53	0.56
2:AL:7:LEU:O	2:AL:11:LEU:HG	2.04	0.56
2:AL:12:LYS:HG2	2:AL:16:ASP:OD2	2.06	0.56
2:AL:88:PHE:O	2:AL:91:PHE:HB3	2.06	0.56
2:AL:133:SER:O	2:AL:136:ILE:HG22	2.05	0.56
2:AM:71:LEU:O	2:AM:72:ASN:CG	2.44	0.56
2:AN:202:PRO:CB	4:BX:577:ARG:HG2	2.32	0.56
3:BF:197:PRO:O	3:BF:205:ILE:HG22	2.06	0.56
3:BG:93:ILE:HG23	3:BG:293:TRP:NE1	2.20	0.56
3:BH:128:SER:CB	3:BH:155:LEU:CD1	2.63	0.56
3:BI:76:PHE:CE2	3:BI:304:ASN:OD1	2.58	0.56
3:BJ:197:PRO:O	3:BJ:205:ILE:HG22	2.06	0.56
3:BK:259:ALA:HB1	3:BK:285:MET:HE3	1.88	0.56
3:BO:84:TYR:HB2	3:BO:140:VAL:HG23	1.87	0.56
3:BP:76:PHE:HE2	3:BP:109:LYS:O	1.85	0.56
4:BX:24:GLU:C	4:BX:26:GLY:N	2.56	0.56
4:BX:485:THR:O	4:BX:487:SER:N	2.38	0.56
4:BX:759:ASP:C	4:BX:761:PRO:HD3	2.26	0.56
4:BY:7:ARG:HD2	4:BY:625:ALA:CA	2.36	0.56
4:BY:543:SER:O	4:BY:547:SER:N	2.37	0.56
4:BY:755:PHE:HD1	4:BY:755:PHE:H	1.52	0.56
4:BZ:581:ILE:HG22	4:BZ:582:ARG:N	2.18	0.56
4:BZ:699:ASP:OD1	4:BZ:700:GLU:N	2.38	0.56
1:AA:355:LEU:O	1:AA:356:GLU:HB2	2.04	0.56
1:AA:415:PRO:HD2	1:AA:480:PHE:CE1	2.40	0.56
1:AA:650:GLN:O	1:AA:651:ILE:CB	2.54	0.56
1:AA:675:GLU:O	1:AA:676:ILE:C	2.44	0.56
1:AB:156:PRO:HB2	1:AB:161:ASP:CB	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:812:VAL:HG23	1:AB:817:TRP:CZ3	2.40	0.56
1:AB:812:VAL:HG23	1:AB:817:TRP:CE3	2.41	0.56
2:AC:133:SER:O	2:AC:136:ILE:HG22	2.05	0.56
2:AF:153:HIS:NE2	2:AH:153:HIS:NE2	2.54	0.56
2:AH:74:ASP:OD2	2:AJ:76:ASN:HB2	2.05	0.56
2:AI:88:PHE:O	2:AI:91:PHE:HB3	2.06	0.56
2:AJ:241:ALA:HB1	3:BM:59:ILE:HG21	1.88	0.56
2:AO:147:ARG:O	2:AO:148:THR:HB	2.05	0.56
3:BA:130:ASP:N	3:BA:131:PRO:CD	2.69	0.56
3:BA:310:MET:CG	3:BA:311:SER:N	2.58	0.56
3:BG:127:PHE:CZ	3:BG:159:ILE:HD11	2.41	0.56
3:BH:127:PHE:CZ	3:BH:159:ILE:HD11	2.41	0.56
3:BK:257:ASN:OD1	3:BK:313:ARG:CG	2.47	0.56
3:BL:275:PRO:CB	3:BM:285:MET:SD	2.91	0.56
3:BL:290:LYS:HA	3:BN:150:LEU:CD2	2.36	0.56
3:BM:108:THR:CG2	3:BM:109:LYS:N	2.69	0.56
3:BN:60:THR:HG22	3:BN:61:GLY:O	2.06	0.56
3:BN:109:LYS:HG3	3:BN:300:VAL:O	2.06	0.56
3:BN:170:ILE:HG12	3:BN:175:TYR:OH	2.06	0.56
3:BP:197:PRO:O	3:BP:205:ILE:HG22	2.06	0.56
4:BX:573:SER:CB	4:BY:643:THR:HG23	2.35	0.56
4:BX:582:ARG:CZ	4:BX:596:THR:CG2	2.83	0.56
4:BY:463:GLU:O	4:BY:464:VAL:CG2	2.50	0.56
4:BZ:352:TYR:CD2	4:BZ:427:ARG:HB2	2.41	0.56
4:BZ:619:LEU:CD1	4:BZ:712:VAL:HG11	2.35	0.56
4:BZ:721:ILE:HG22	4:BZ:722:ILE:N	2.21	0.56
4:BZ:726:THR:HG21	4:BZ:766:ARG:HD3	1.87	0.56
1:AA:473:HIS:HB3	2:AG:69:THR:O	2.05	0.56
1:AA:631:LEU:HB3	1:AA:633:LEU:CD1	2.35	0.56
1:AA:763:LEU:HD23	1:AA:764:PRO:HD3	1.87	0.56
1:AB:422:GLU:OE1	1:AB:422:GLU:N	2.39	0.56
1:AB:457:GLN:CG	1:AB:476:ASN:CG	2.74	0.56
1:AB:535:LEU:O	1:AB:539:ARG:CG	2.54	0.56
1:AB:563:MET:SD	1:AB:611:HIS:CD2	2.98	0.56
1:AB:630:ARG:CG	2:AL:71:LEU:HD13	2.36	0.56
1:AB:783:PHE:O	1:AB:784:ALA:C	2.42	0.56
2:AC:12:LYS:HG2	2:AC:16:ASP:OD2	2.06	0.56
2:AF:106:ARG:HG2	2:AF:107:ASN:H	1.71	0.56
2:AF:163:SER:OG	3:BI:62:SER:CA	2.53	0.56
2:AG:130:ASP:OD2	2:AH:17:LYS:HE3	2.05	0.56
2:AI:153:HIS:NE2	2:AK:153:HIS:NE2	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:12:LYS:HG2	2:AM:16:ASP:OD2	2.05	0.56
2:AN:7:LEU:O	2:AN:11:LEU:HG	2.05	0.56
2:AO:69:THR:O	2:AO:70:LEU:O	2.22	0.56
2:AO:260:GLU:HG2	2:AO:274:GLN:HG3	1.86	0.56
3:BA:129:VAL:HG13	3:BA:187:MET:HG3	1.88	0.56
3:BF:108:THR:CG2	3:BF:109:LYS:N	2.69	0.56
3:BF:237:LEU:HD21	3:BF:246:ILE:CD1	2.36	0.56
3:BI:237:LEU:HD21	3:BI:246:ILE:CD1	2.36	0.56
3:BJ:108:THR:CG2	3:BJ:109:LYS:N	2.69	0.56
3:BN:137:TYR:CE2	3:BN:312:LYS:HB3	2.39	0.56
3:BO:93:ILE:HG23	3:BO:293:TRP:NE1	2.20	0.56
3:BO:237:LEU:HD21	3:BO:246:ILE:CD1	2.36	0.56
3:BO:290:LYS:HA	3:BQ:150:LEU:CD2	2.36	0.56
3:BP:159:ILE:HG22	3:BP:258:VAL:CG1	2.35	0.56
3:BQ:129:VAL:O	3:BQ:131:PRO:CD	2.49	0.56
4:BX:34:THR:O	4:BY:484:ILE:CB	2.52	0.56
4:BX:259:THR:HG1	4:BY:263:LYS:HG3	1.70	0.56
4:BX:607:SER:OG	4:BX:608:ILE:N	2.38	0.56
4:BY:572:ALA:CA	4:BZ:516:GLN:HB2	2.36	0.56
4:BZ:268:ASN:HD21	4:BZ:467:ARG:HE	1.53	0.56
4:BZ:269:ARG:HG3	4:BZ:270:ASP:O	2.06	0.56
4:BZ:537:THR:O	4:BZ:538:ILE:HD13	2.06	0.56
4:BZ:557:LEU:HD11	4:BZ:664:SER:HB3	1.87	0.56
1:AA:178:PRO:CD	1:AA:256:PHE:CD2	2.85	0.56
1:AA:284:TYR:OH	1:AA:594:ILE:HG23	2.06	0.56
1:AA:501:HIS:C	1:AA:503:VAL:N	2.59	0.56
1:AA:508:GLU:HG2	1:AA:512:GLN:NE2	2.19	0.56
1:AB:135:ARG:HD2	1:AB:138:GLY:HA3	1.86	0.56
1:AB:477:ASN:HD22	2:AI:39:ILE:HG21	1.71	0.56
1:AB:703:VAL:HG13	1:AB:825:VAL:HG22	1.87	0.56
1:AB:810:TYR:C	1:AB:812:VAL:HG12	2.26	0.56
1:AB:825:VAL:CG1	1:AB:826:TYR:H	2.19	0.56
2:AH:30:LEU:O	2:AH:31:ILE:C	2.43	0.56
2:AI:106:ARG:HG2	2:AI:107:ASN:H	1.71	0.56
2:AJ:130:ASP:OD2	2:AK:17:LYS:HE3	2.04	0.56
3:BA:197:PRO:O	3:BA:205:ILE:HG22	2.06	0.56
3:BF:109:LYS:HG3	3:BF:300:VAL:O	2.06	0.56
3:BF:258:VAL:CG1	3:BF:259:ALA:H	2.16	0.56
3:BH:197:PRO:O	3:BH:205:ILE:HG22	2.06	0.56
3:BI:76:PHE:HZ	3:BI:304:ASN:OD1	1.89	0.56
3:BJ:127:PHE:CZ	3:BJ:159:ILE:HD11	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:144:TYR:HD1	3:BK:265:GLY:HA3	1.71	0.56
3:BK:161:ASN:HD22	3:BK:254:PRO:HA	1.71	0.56
3:BL:109:LYS:HG3	3:BL:300:VAL:O	2.06	0.56
3:BM:197:PRO:O	3:BM:205:ILE:HG22	2.06	0.56
3:BN:165:CYS:O	3:BN:324:TYR:CA	2.52	0.56
3:BN:172:LEU:O	4:BX:489:THR:CB	2.52	0.56
3:BP:75:THR:HG23	3:BP:79:SER:OG	2.06	0.56
3:BQ:123:ASP:CG	3:BQ:126:SER:H	2.08	0.56
3:BQ:259:ALA:HB1	3:BQ:285:MET:HE3	1.87	0.56
4:BX:262:TRP:CZ2	4:BX:367:TYR:CE2	2.94	0.56
4:BX:333:LEU:CG	4:BX:334:PRO:HD2	2.35	0.56
4:BX:624:MET:C	4:BX:626:THR:H	2.09	0.56
4:BY:9:LEU:HB3	4:BY:549:MET:CE	2.36	0.56
4:BY:509:SER:O	4:BY:511:GLU:N	2.38	0.56
4:BY:623:GLU:O	4:BY:626:THR:HB	2.06	0.56
4:BY:640:VAL:CG1	4:BY:644:LYS:HZ2	2.19	0.56
4:BZ:745:LEU:C	4:BZ:747:SER:H	2.09	0.56
1:AA:503:VAL:CG2	1:AA:547:THR:HG21	2.35	0.56
1:AA:721:VAL:HG11	1:AA:799:LEU:HD22	1.87	0.56
1:AA:777:LYS:HE2	1:AA:780:ALA:HB2	1.88	0.56
1:AB:153:ASP:CG	1:AB:153:ASP:O	2.44	0.56
1:AB:275:PRO:HD2	1:AB:278:ILE:HD12	1.86	0.56
1:AB:457:GLN:OE1	1:AB:457:GLN:O	2.23	0.56
1:AB:518:PHE:CD2	2:AH:69:THR:HB	2.40	0.56
2:AE:12:LYS:HG2	2:AE:16:ASP:OD2	2.06	0.56
2:AK:88:PHE:O	2:AK:91:PHE:HB3	2.05	0.56
2:AN:299:ASN:OD1	3:BP:71:THR:HG21	2.02	0.56
3:BA:174:TYR:CD1	3:BA:198:LEU:HD13	2.40	0.56
3:BF:93:ILE:HG23	3:BF:293:TRP:NE1	2.20	0.56
3:BG:76:PHE:HE2	3:BG:111:TRP:HE1	1.54	0.56
3:BG:84:TYR:HB2	3:BG:140:VAL:HG23	1.87	0.56
3:BI:84:TYR:HB2	3:BI:140:VAL:HG23	1.87	0.56
3:BI:108:THR:CG2	3:BI:109:LYS:N	2.69	0.56
3:BL:108:THR:CG2	3:BL:109:LYS:N	2.69	0.56
3:BL:208:LEU:C	3:BL:210:THR:H	2.08	0.56
3:BN:84:TYR:HB2	3:BN:140:VAL:HG23	1.87	0.56
3:BN:123:ASP:CG	3:BN:126:SER:H	2.08	0.56
3:BN:127:PHE:CZ	3:BN:159:ILE:HD11	2.41	0.56
3:BN:237:LEU:HD21	3:BN:246:ILE:CD1	2.36	0.56
3:BO:150:LEU:HD21	3:BP:290:LYS:CB	2.36	0.56
3:BO:159:ILE:HG22	3:BO:258:VAL:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:84:TYR:HB2	3:BP:140:VAL:HG23	1.87	0.56
3:BP:257:ASN:HD21	3:BP:313:ARG:CZ	2.18	0.56
3:BQ:275:PRO:CD	3:BQ:276:THR:N	2.66	0.56
4:BX:738:ARG:HG2	4:BX:738:ARG:HH11	1.71	0.56
4:BY:632:ASN:O	4:BY:635:ASP:N	2.36	0.56
4:BY:668:ILE:HG21	4:BY:671:ARG:HD3	1.87	0.56
4:BY:670:ASN:O	4:BY:671:ARG:HB3	2.06	0.56
4:BY:701:ILE:HD13	4:BY:702:PRO:N	2.21	0.56
4:BZ:631:MET:CE	4:BZ:749:PRO:HA	2.35	0.56
1:AA:134:TYR:CD1	1:AA:803:ASN:HB3	2.41	0.56
1:AA:486:ASP:HB2	1:AA:490:ASN:ND2	2.20	0.56
1:AA:517:GLN:HG3	1:AA:517:GLN:O	2.06	0.56
1:AA:593:VAL:O	1:AA:594:ILE:HG13	2.06	0.56
1:AA:817:TRP:CG	1:AA:818:VAL:N	2.71	0.56
1:AB:369:GLY:HA2	1:AB:371:ASN:OD1	2.06	0.56
1:AB:742:GLY:O	1:AB:744:TYR:HE2	1.89	0.56
2:AD:133:SER:O	2:AD:136:ILE:HG22	2.06	0.56
2:AF:255:ARG:HD3	3:BJ:65:THR:OG1	2.05	0.56
2:AI:239:ASN:HA	3:BL:67:TYR:HE2	1.71	0.56
3:BF:78:THR:O	3:BF:78:THR:CG2	2.53	0.56
3:BF:172:LEU:CD1	4:BZ:467:ARG:CB	2.45	0.56
3:BH:123:ASP:CG	3:BH:126:SER:H	2.08	0.56
3:BH:257:ASN:O	3:BH:258:VAL:C	2.33	0.56
3:BI:168:MET:HA	3:BI:168:MET:CE	2.33	0.56
3:BJ:84:TYR:HB2	3:BJ:140:VAL:HG23	1.87	0.56
3:BJ:93:ILE:HG23	3:BJ:293:TRP:NE1	2.20	0.56
3:BN:200:THR:CG2	4:BX:493:ASP:OD1	2.53	0.56
3:BO:55:ILE:HD12	3:BO:323:TYR:CD1	2.34	0.56
3:BO:123:ASP:CG	3:BO:126:SER:H	2.08	0.56
3:BO:191:CYS:HG	3:BO:244:CYS:CB	2.19	0.56
3:BP:168:MET:CE	3:BP:175:TYR:OH	2.53	0.56
3:BQ:191:CYS:HG	3:BQ:244:CYS:CB	2.18	0.56
4:BX:517:LEU:CD1	4:BX:639:ALA:HB1	2.36	0.56
4:BX:668:ILE:HG21	4:BX:671:ARG:HD3	1.87	0.56
4:BZ:541:ALA:HA	4:BZ:544:MET:HE2	1.87	0.56
4:BZ:630:GLY:O	4:BZ:632:ASN:ND2	2.39	0.56
1:AA:414:VAL:HG12	1:AA:418:MET:HB2	1.87	0.55
1:AA:428:GLN:CG	1:AA:429:LEU:N	2.69	0.55
1:AA:501:HIS:O	1:AA:503:VAL:N	2.34	0.55
1:AB:326:TYR:CD1	1:AB:384:ALA:HB1	2.40	0.55
1:AB:326:TYR:CE2	1:AB:574:GLU:OE2	2.59	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:625:ILE:O	1:AB:628:ALA:HB3	2.07	0.55
2:AC:57:ARG:HH11	2:AC:94:ASN:ND2	1.96	0.55
2:AG:133:SER:O	2:AG:136:ILE:HG22	2.06	0.55
2:AH:7:LEU:O	2:AH:11:LEU:HG	2.05	0.55
2:AJ:128:ASN:O	2:AK:22:THR:HB	2.06	0.55
2:AJ:219:THR:CG2	2:AJ:220:THR:N	2.68	0.55
2:AK:244:ALA:HA	3:BN:68:ALA:HB3	1.89	0.55
2:AL:153:HIS:NE2	2:AN:153:HIS:NE2	2.54	0.55
2:AL:241:ALA:HB3	3:BP:59:ILE:HG21	1.87	0.55
2:AM:88:PHE:O	2:AM:91:PHE:HB3	2.06	0.55
3:BA:208:LEU:C	3:BA:210:THR:H	2.08	0.55
3:BF:76:PHE:HZ	3:BF:304:ASN:OD1	1.89	0.55
3:BG:164:LEU:HD12	3:BG:322:PHE:CB	2.35	0.55
3:BH:237:LEU:HD21	3:BH:246:ILE:CD1	2.36	0.55
3:BJ:129:VAL:CG2	3:BJ:223:LYS:NZ	2.69	0.55
3:BK:84:TYR:HB2	3:BK:140:VAL:HG23	1.87	0.55
3:BK:127:PHE:CZ	3:BK:159:ILE:HD11	2.41	0.55
3:BK:237:LEU:HD21	3:BK:246:ILE:CD1	2.36	0.55
3:BL:69:ASN:ND2	4:BX:507:ALA:CA	2.59	0.55
3:BM:267:ASP:OD1	3:BM:267:ASP:O	2.24	0.55
3:BO:255:ARG:CD	3:BO:257:ASN:ND2	2.70	0.55
3:BO:275:PRO:CD	3:BO:276:THR:N	2.66	0.55
4:BX:332:SER:HG	4:BY:70:GLN:HG2	1.68	0.55
4:BX:557:LEU:HD11	4:BX:664:SER:HB3	1.88	0.55
4:BX:633:PHE:CB	4:BX:671:ARG:HH11	2.18	0.55
4:BY:307:ARG:O	4:BY:310:GLU:HG2	2.06	0.55
4:BY:566:ASP:O	4:BY:568:LEU:N	2.39	0.55
4:BZ:266:GLN:CD	4:BZ:470:LEU:O	2.44	0.55
4:BZ:411:LEU:HD22	4:BZ:424:LEU:HD23	1.88	0.55
4:BZ:706:GLN:O	4:BZ:708:PHE:N	2.39	0.55
1:AA:158:GLY:O	1:AA:162:VAL:HG23	2.07	0.55
1:AA:404:LEU:HD22	1:AA:435:ILE:CD1	2.33	0.55
1:AA:700:ALA:O	1:AA:701:GLN:HB2	2.06	0.55
1:AA:727:LEU:HD23	1:AA:826:TYR:CE1	2.41	0.55
1:AA:869:VAL:HG11	1:AA:873:ASN:HA	1.87	0.55
1:AB:240:ASN:HA	1:AB:842:LEU:O	2.07	0.55
2:AE:7:LEU:O	2:AE:11:LEU:HG	2.05	0.55
2:AH:12:LYS:HG2	2:AH:16:ASP:OD2	2.06	0.55
2:AI:133:SER:O	2:AI:136:ILE:HG22	2.05	0.55
2:AK:23:LEU:HD22	2:AK:25:SER:OG	2.06	0.55
2:AL:22:THR:OG1	2:AL:26:ASN:ND2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:93:ILE:HG23	3:BA:293:TRP:NE1	2.20	0.55
3:BF:84:TYR:HB2	3:BF:140:VAL:HG23	1.87	0.55
3:BF:290:LYS:HA	3:BH:150:LEU:CD2	2.36	0.55
3:BG:316:SER:HB2	3:BO:324:TYR:HB3	0.63	0.55
3:BI:275:PRO:CB	3:BJ:285:MET:SD	2.91	0.55
3:BL:237:LEU:HD21	3:BL:246:ILE:CD1	2.36	0.55
3:BM:168:MET:HE2	3:BM:175:TYR:CE1	2.41	0.55
3:BP:168:MET:HE3	3:BP:175:TYR:OH	2.04	0.55
3:BP:272:THR:HG21	3:BP:277:THR:CG2	2.37	0.55
3:BQ:251:LYS:CG	3:BQ:252:LEU:N	2.31	0.55
3:BQ:272:THR:HG21	3:BQ:277:THR:CG2	2.37	0.55
4:BX:37:LEU:HD11	4:BX:480:TYR:CD2	2.41	0.55
4:BX:537:THR:HG21	4:BX:541:ALA:CB	2.28	0.55
4:BX:753:ARG:HG3	4:BX:753:ARG:NH1	2.21	0.55
4:BY:540:ALA:O	4:BY:544:MET:HB2	2.05	0.55
4:BY:598:ILE:HG22	4:BY:599:THR:N	2.20	0.55
4:BY:615:ILE:HG23	4:BY:619:LEU:HD12	1.88	0.55
4:BY:632:ASN:O	4:BY:633:PHE:C	2.43	0.55
4:BY:758:GLN:OE1	4:BY:758:GLN:HA	2.06	0.55
4:BZ:544:MET:HA	4:BZ:547:SER:HB2	1.87	0.55
4:BZ:667:PHE:O	4:BZ:668:ILE:HB	2.05	0.55
4:BZ:670:ASN:O	4:BZ:671:ARG:HB3	2.05	0.55
4:BZ:738:ARG:HG2	4:BZ:738:ARG:HH11	1.71	0.55
4:BZ:756:ILE:HD12	4:BZ:767:ILE:HD13	1.88	0.55
1:AA:436:ILE:HG13	1:AA:437:TYR:H	1.70	0.55
1:AA:704:ILE:O	1:AA:823:THR:HB	2.06	0.55
1:AA:793:ASP:C	1:AA:795:LEU:H	2.07	0.55
1:AA:803:ASN:C	1:AA:805:ASP:H	2.10	0.55
1:AB:387:LEU:CD2	1:AB:554:TYR:CD1	2.89	0.55
1:AB:389:GLN:HG3	1:AB:565:MET:HB2	1.88	0.55
2:AC:88:PHE:O	2:AC:91:PHE:HB3	2.06	0.55
2:AF:124:PHE:O	2:AF:127:ILE:HG13	2.06	0.55
2:AK:24:TYR:O	2:AK:26:ASN:N	2.40	0.55
2:AM:54:LEU:HD12	2:AM:55:PRO:CD	2.36	0.55
3:BF:259:ALA:HB1	3:BF:285:MET:HE3	1.88	0.55
3:BG:52:ASN:HD21	3:BO:55:ILE:HA	1.70	0.55
3:BG:197:PRO:HG2	3:BG:205:ILE:HG22	1.88	0.55
3:BI:104:GLN:HB2	3:BK:205:ILE:CD1	2.31	0.55
3:BI:259:ALA:HB1	3:BI:285:MET:HE3	1.89	0.55
3:BI:263:VAL:HG11	3:BI:289:TRP:CE3	2.42	0.55
3:BJ:197:PRO:HG2	3:BJ:205:ILE:HG22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:321:ALA:O	3:BN:322:PHE:C	2.45	0.55
3:BO:109:LYS:HG3	3:BO:300:VAL:O	2.06	0.55
4:BX:251:ASN:OD1	4:BY:269:ARG:NH2	2.40	0.55
4:BX:537:THR:CB	4:BX:541:ALA:H	2.20	0.55
4:BZ:710:ASP:C	4:BZ:712:VAL:H	2.10	0.55
1:AB:214:ASP:O	1:AB:216:GLU:N	2.38	0.55
1:AB:432:ILE:HD13	1:AB:436:ILE:CD1	2.36	0.55
1:AB:717:MET:HE1	1:AB:830:PRO:CG	2.37	0.55
2:AE:30:LEU:O	2:AE:31:ILE:C	2.43	0.55
2:AE:129:PHE:CD1	2:AE:129:PHE:C	2.80	0.55
2:AK:12:LYS:HG2	2:AK:16:ASP:OD2	2.06	0.55
2:AM:150:PHE:HB2	2:AM:152:PHE:HE1	1.68	0.55
2:AN:133:SER:O	2:AN:136:ILE:HG22	2.07	0.55
3:BF:272:THR:HG21	3:BF:277:THR:HG22	1.89	0.55
3:BG:126:SER:CA	3:BG:223:LYS:HZ1	2.08	0.55
3:BH:197:PRO:HG2	3:BH:205:ILE:HG22	1.89	0.55
3:BH:272:THR:HG21	3:BH:277:THR:CG2	2.37	0.55
3:BI:251:LYS:NZ	3:BI:271:ILE:HG22	2.21	0.55
3:BK:109:LYS:HG3	3:BK:300:VAL:O	2.06	0.55
3:BL:174:TYR:CD1	3:BL:198:LEU:HD11	2.34	0.55
3:BM:109:LYS:HG3	3:BM:300:VAL:O	2.06	0.55
3:BM:123:ASP:CG	3:BM:126:SER:H	2.08	0.55
3:BM:127:PHE:CZ	3:BM:159:ILE:HD11	2.41	0.55
3:BO:142:MET:HE3	3:BO:262:GLN:OE1	2.07	0.55
3:BP:150:LEU:HD22	3:BQ:289:TRP:C	2.25	0.55
3:BP:170:ILE:HG12	3:BP:175:TYR:HH	1.70	0.55
3:BQ:186:SER:C	3:BQ:187:MET:HG3	2.25	0.55
4:BX:33:VAL:CA	4:BY:36:ASN:CB	2.83	0.55
4:BX:694:ARG:NH2	4:BX:701:ILE:HD12	2.22	0.55
4:BY:539:ASP:HA	4:BY:542:LYS:HG2	1.88	0.55
4:BY:698:PHE:O	4:BY:699:ASP:HB2	2.06	0.55
4:BZ:551:LYS:HG3	4:BZ:657:PRO:HB3	1.87	0.55
4:BZ:694:ARG:NH1	4:BZ:701:ILE:CG2	2.70	0.55
4:BZ:721:ILE:HG22	4:BZ:722:ILE:CG2	2.36	0.55
4:BZ:758:GLN:OE1	4:BZ:758:GLN:HA	2.06	0.55
1:AA:160:TYR:CE2	1:AA:635:GLN:HB3	2.42	0.55
1:AA:603:TYR:O	1:AA:606:VAL:CG2	2.54	0.55
1:AB:631:LEU:O	1:AB:633:LEU:N	2.40	0.55
2:AF:30:LEU:O	2:AF:31:ILE:C	2.44	0.55
2:AG:30:LEU:O	2:AG:31:ILE:C	2.45	0.55
2:AH:24:TYR:O	2:AH:26:ASN:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:238:ILE:HG23	3:BL:63:MET:CE	2.36	0.55
2:AJ:133:SER:O	2:AJ:136:ILE:HG22	2.06	0.55
2:AK:133:SER:O	2:AK:136:ILE:HG22	2.07	0.55
2:AM:128:ASN:O	2:AN:22:THR:HB	2.06	0.55
2:AM:133:SER:O	2:AM:136:ILE:HG22	2.06	0.55
2:AN:24:TYR:O	2:AN:26:ASN:N	2.40	0.55
3:BA:109:LYS:HG3	3:BA:300:VAL:O	2.06	0.55
3:BG:109:LYS:HG3	3:BG:300:VAL:O	2.06	0.55
3:BG:270:ASP:OD2	3:BH:286:ARG:NE	2.40	0.55
3:BI:285:MET:SD	3:BK:275:PRO:CB	2.91	0.55
3:BJ:109:LYS:HG3	3:BJ:300:VAL:O	2.06	0.55
3:BJ:289:TRP:CH2	3:BJ:292:TRP:NE1	2.75	0.55
3:BK:76:PHE:CE2	3:BK:304:ASN:OD1	2.58	0.55
3:BK:108:THR:CG2	3:BK:109:LYS:N	2.69	0.55
3:BK:197:PRO:O	3:BK:205:ILE:HG22	2.06	0.55
3:BL:150:LEU:HD21	3:BM:290:LYS:HG2	1.88	0.55
3:BL:272:THR:HG21	3:BL:277:THR:HG22	1.89	0.55
3:BL:307:ILE:HD13	3:BL:310:MET:HE3	1.88	0.55
3:BN:108:THR:CG2	3:BN:109:LYS:N	2.69	0.55
3:BO:55:ILE:HG23	3:BO:322:PHE:HB3	1.87	0.55
3:BO:108:THR:CG2	3:BO:109:LYS:N	2.69	0.55
3:BO:197:PRO:O	3:BO:205:ILE:HG22	2.06	0.55
3:BO:289:TRP:C	3:BQ:150:LEU:HD22	2.21	0.55
3:BO:290:LYS:HG2	3:BQ:150:LEU:CD2	2.37	0.55
3:BQ:109:LYS:HG3	3:BQ:300:VAL:O	2.06	0.55
3:BQ:174:TYR:CD1	3:BQ:198:LEU:HD11	2.35	0.55
4:BX:307:ARG:O	4:BX:310:GLU:HG2	2.06	0.55
4:BX:632:ASN:O	4:BX:635:ASP:N	2.37	0.55
1:AA:122:LEU:HD21	1:AA:200:VAL:CG1	2.33	0.55
1:AA:539:ARG:O	1:AA:542:GLN:N	2.39	0.55
1:AB:250:HIS:CE1	1:AB:840:HIS:HB3	2.42	0.55
1:AB:727:LEU:O	1:AB:728:ASP:CB	2.54	0.55
2:AC:22:THR:OG1	2:AC:26:ASN:ND2	2.39	0.55
2:AC:364:GLY:HA3	4:BY:733:ASN:HB3	1.83	0.55
2:AD:88:PHE:O	2:AD:91:PHE:HB3	2.06	0.55
2:AG:7:LEU:O	2:AG:11:LEU:HG	2.07	0.55
2:AH:152:PHE:CD1	2:AH:152:PHE:N	2.75	0.55
2:AI:12:LYS:HG2	2:AI:16:ASP:OD2	2.06	0.55
2:AK:12:LYS:C	2:AK:14:ALA:N	2.60	0.55
2:AN:73:LEU:HD22	2:AN:77:TYR:CD2	2.42	0.55
3:BJ:125:ALA:C	3:BJ:223:LYS:HZ2	2.09	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:259:ALA:HB1	3:BJ:285:MET:HE3	1.88	0.55
3:BK:76:PHE:HZ	3:BK:304:ASN:OD1	1.90	0.55
3:BK:168:MET:HE2	3:BK:175:TYR:CD2	2.42	0.55
3:BK:318:ASN:O	3:BK:320:ALA:N	2.37	0.55
3:BN:307:ILE:HA	3:BN:310:MET:HE3	1.89	0.55
3:BP:127:PHE:CZ	3:BP:159:ILE:HD11	2.41	0.55
4:BY:627:GLN:O	4:BY:628:THR:OG1	2.24	0.55
4:BZ:627:GLN:O	4:BZ:628:THR:OG1	2.23	0.55
4:BZ:653:PRO:C	4:BZ:655:THR:H	2.09	0.55
4:BZ:670:ASN:HB2	4:BZ:687:ASP:OD1	2.06	0.55
1:AA:150:LEU:HD23	1:AA:152:ARG:O	2.07	0.55
1:AA:839:MET:HG2	1:AA:840:HIS:N	2.21	0.55
1:AB:516:GLN:HE21	1:AB:533:ILE:CD1	2.20	0.55
1:AB:604:TYR:O	1:AB:608:VAL:HG23	2.07	0.55
1:AB:630:ARG:HH12	2:AL:24:TYR:HD2	1.55	0.55
1:AB:675:GLU:O	1:AB:676:ILE:C	2.44	0.55
2:AD:30:LEU:O	2:AD:31:ILE:C	2.45	0.55
2:AD:54:LEU:HD12	2:AD:55:PRO:CD	2.36	0.55
2:AI:12:LYS:C	2:AI:14:ALA:N	2.60	0.55
2:AI:310:ASN:HB2	3:BL:180:GLU:CD	2.27	0.55
2:AJ:7:LEU:O	2:AJ:11:LEU:HG	2.07	0.55
2:AM:100:MET:HG3	2:AM:388:VAL:HG11	1.89	0.55
2:AN:12:LYS:HG2	2:AN:16:ASP:OD2	2.06	0.55
2:AN:24:TYR:CZ	2:AN:68:THR:O	2.59	0.55
3:BG:158:LEU:CD1	3:BG:224:LEU:CD1	2.83	0.55
3:BG:277:THR:HG23	3:BG:278:ALA:N	2.22	0.55
3:BI:76:PHE:CE2	3:BI:111:TRP:NE1	2.75	0.55
3:BI:150:LEU:HD21	3:BJ:290:LYS:CG	2.36	0.55
3:BJ:76:PHE:CE2	3:BJ:111:TRP:NE1	2.75	0.55
3:BJ:267:ASP:H	3:BJ:286:ARG:NH1	2.04	0.55
3:BK:174:TYR:HD1	3:BK:198:LEU:HD12	1.63	0.55
3:BK:197:PRO:HG2	3:BK:205:ILE:HG22	1.89	0.55
3:BL:76:PHE:CE2	3:BL:111:TRP:NE1	2.75	0.55
3:BQ:93:ILE:HG23	3:BQ:293:TRP:NE1	2.20	0.55
4:BX:17:ASP:O	4:BX:18:LEU:C	2.45	0.55
4:BX:85:ALA:HB3	4:BX:204:ASP:OD1	2.07	0.55
4:BX:582:ARG:CZ	4:BX:596:THR:HG22	2.36	0.55
4:BX:721:ILE:HG22	4:BX:722:ILE:N	2.22	0.55
1:AA:250:HIS:CE1	1:AA:840:HIS:HB2	2.38	0.55
1:AA:371:ASN:O	1:AA:373:GLN:N	2.40	0.55
1:AA:563:MET:HE2	1:AA:563:MET:CA	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:481:ARG:H	1:AB:481:ARG:HD3	1.69	0.55
1:AB:518:PHE:CD2	2:AH:69:THR:CB	2.89	0.55
1:AB:810:TYR:HE2	1:AB:813:ALA:HB3	1.72	0.55
1:AB:817:TRP:CD1	1:AB:818:VAL:N	2.73	0.55
2:AE:152:PHE:CD1	2:AE:152:PHE:N	2.75	0.55
2:AG:310:ASN:HB2	3:BJ:180:GLU:OE1	2.07	0.55
2:AH:313:PRO:CD	3:BK:279:PRO:CB	2.83	0.55
2:AI:22:THR:OG1	2:AI:26:ASN:ND2	2.39	0.55
2:AI:30:LEU:O	2:AI:31:ILE:C	2.44	0.55
2:AI:124:PHE:O	2:AI:127:ILE:HG13	2.06	0.55
2:AJ:163:SER:HG	3:BM:62:SER:CA	2.08	0.55
2:AK:69:THR:O	2:AK:70:LEU:CB	2.51	0.55
2:AK:142:GLN:O	2:AL:145:ARG:CD	2.55	0.55
2:AK:272:THR:HG23	4:BX:729:ASN:OD1	2.07	0.55
2:AL:106:ARG:HG2	2:AL:107:ASN:H	1.71	0.55
2:AN:23:LEU:HD22	2:AN:25:SER:OG	2.06	0.55
2:AN:152:PHE:N	2:AN:152:PHE:CD1	2.75	0.55
3:BF:158:LEU:CD1	3:BF:224:LEU:CD1	2.83	0.55
3:BF:272:THR:HG21	3:BF:277:THR:CG2	2.37	0.55
3:BG:197:PRO:O	3:BG:205:ILE:HG22	2.06	0.55
3:BI:109:LYS:HG3	3:BI:300:VAL:O	2.06	0.55
3:BL:277:THR:HG23	3:BL:278:ALA:N	2.22	0.55
3:BM:267:ASP:OD2	3:BM:286:ARG:HD2	2.06	0.55
3:BN:197:PRO:O	3:BN:205:ILE:HG22	2.06	0.55
3:BN:315:ARG:O	3:BN:317:LEU:N	2.39	0.55
3:BN:316:SER:HB3	3:BP:323:TYR:CD2	2.41	0.55
4:BX:667:PHE:O	4:BX:668:ILE:HB	2.06	0.55
4:BX:679:ASP:HA	4:BX:695:VAL:HB	1.88	0.55
4:BX:734:TYR:CE1	4:BX:762:ILE:CG1	2.62	0.55
4:BY:519:ASP:C	4:BY:521:ALA:H	2.09	0.55
4:BY:557:LEU:HD11	4:BY:664:SER:HB3	1.88	0.55
4:BY:710:ASP:C	4:BY:712:VAL:H	2.10	0.55
1:AA:108:LEU:O	1:AA:111:ILE:HG22	2.06	0.55
1:AA:148:TRP:CZ2	1:AA:833:PHE:HD1	2.24	0.55
1:AA:499:ASN:O	1:AA:501:HIS:N	2.40	0.55
1:AA:506:LEU:HD21	1:AA:543:LEU:HB3	1.88	0.55
1:AA:594:ILE:HG23	1:AA:595:PRO:CD	2.37	0.55
1:AA:730:PHE:N	1:AA:730:PHE:CD1	2.74	0.55
1:AA:738:LEU:O	1:AA:741:THR:HG22	2.07	0.55
1:AB:224:PHE:CE1	2:AO:71:LEU:HB2	2.42	0.55
1:AB:261:LEU:HG	1:AB:261:LEU:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:262:VAL:HG11	1:AB:297:ARG:HB3	1.88	0.55
1:AB:314:PHE:CZ	1:AB:664:ARG:HG2	2.42	0.55
1:AB:421:ARG:HB3	1:AB:422:GLU:OE1	2.07	0.55
1:AB:515:ARG:O	1:AB:515:ARG:HG3	2.07	0.55
1:AB:519:PRO:O	1:AB:520:THR:OG1	2.23	0.55
1:AB:681:ILE:O	1:AB:685:ILE:HG13	2.06	0.55
2:AD:133:SER:O	2:AD:135:TYR:N	2.40	0.55
2:AG:12:LYS:C	2:AG:14:ALA:N	2.60	0.55
2:AH:133:SER:O	2:AH:136:ILE:HG22	2.07	0.55
2:AJ:133:SER:O	2:AJ:135:TYR:N	2.40	0.55
3:BF:126:SER:CA	3:BF:223:LYS:HZ1	2.08	0.55
3:BH:108:THR:CG2	3:BH:109:LYS:N	2.69	0.55
3:BJ:180:GLU:HG3	3:BJ:180:GLU:O	2.07	0.55
3:BK:75:THR:HG23	3:BK:79:SER:OG	2.07	0.55
3:BM:129:VAL:C	3:BM:131:PRO:CD	2.75	0.55
3:BP:130:ASP:O	3:BP:132:GLN:CG	2.52	0.55
4:BX:734:TYR:CE1	4:BX:762:ILE:CD1	2.87	0.55
4:BY:17:ASP:O	4:BY:18:LEU:C	2.44	0.55
4:BY:551:LYS:HG3	4:BY:657:PRO:HB3	1.88	0.55
4:BZ:591:TRP:H	4:BZ:591:TRP:HD1	1.53	0.55
1:AA:306:ASP:HB2	1:AA:614:TYR:CZ	2.41	0.55
1:AA:548:ARG:O	1:AA:551:ALA:HB3	2.06	0.55
1:AA:660:ASP:OD1	1:AA:661:GLN:N	2.40	0.55
1:AB:544:VAL:HG11	1:AB:548:ARG:HH21	1.71	0.55
2:AC:357:VAL:HG23	4:BY:734:TYR:C	2.27	0.55
2:AD:76:ASN:CB	2:AL:76:ASN:HB2	2.35	0.55
2:AD:100:MET:HG3	2:AD:388:VAL:HG11	1.89	0.55
2:AE:203:ALA:O	4:BY:775:ARG:CZ	2.55	0.55
2:AG:313:PRO:CD	3:BJ:279:PRO:HB2	2.36	0.55
2:AL:12:LYS:C	2:AL:14:ALA:N	2.60	0.55
2:AL:30:LEU:O	2:AL:31:ILE:C	2.44	0.55
2:AM:7:LEU:O	2:AM:11:LEU:HG	2.07	0.55
2:AN:30:LEU:O	2:AN:31:ILE:C	2.44	0.55
3:BG:108:THR:CG2	3:BG:109:LYS:N	2.69	0.55
3:BG:205:ILE:CD1	3:BH:104:GLN:HB2	2.31	0.55
3:BH:255:ARG:CD	3:BH:257:ASN:ND2	2.70	0.55
3:BJ:78:THR:O	3:BJ:78:THR:HG22	2.06	0.55
3:BO:55:ILE:HG12	3:BO:322:PHE:CG	2.42	0.55
3:BP:53:TYR:CD1	3:BP:322:PHE:CZ	2.90	0.55
3:BP:109:LYS:HG3	3:BP:300:VAL:O	2.06	0.55
3:BQ:197:PRO:HG2	3:BQ:205:ILE:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:259:THR:HA	4:BY:262:TRP:O	2.07	0.55
4:BX:540:ALA:O	4:BX:542:LYS:N	2.40	0.55
4:BX:555:SER:OG	4:BX:556:GLY:N	2.38	0.55
4:BX:620:ARG:HA	4:BX:673:TYR:OH	2.07	0.55
4:BY:607:SER:O	4:BY:608:ILE:C	2.45	0.55
4:BY:732:ASP:O	4:BY:734:TYR:N	2.39	0.55
1:AA:421:ARG:O	1:AA:423:SER:N	2.41	0.54
1:AA:488:VAL:O	1:AA:490:ASN:N	2.40	0.54
1:AA:786:ILE:HG23	1:AA:792:VAL:CG1	2.36	0.54
1:AA:822:THR:C	1:AA:823:THR:HG23	2.27	0.54
1:AB:401:TYR:HA	1:AB:404:LEU:HD12	1.89	0.54
1:AB:492:VAL:HG13	1:AB:565:MET:CE	2.37	0.54
1:AB:810:TYR:O	1:AB:810:TYR:CD2	2.60	0.54
2:AE:27:VAL:O	2:AE:31:ILE:HG12	2.07	0.54
2:AF:22:THR:OG1	2:AF:26:ASN:ND2	2.39	0.54
2:AF:255:ARG:NH1	3:BJ:65:THR:OG1	2.40	0.54
2:AH:129:PHE:CD1	2:AH:129:PHE:C	2.80	0.54
2:AJ:54:LEU:HD12	2:AJ:55:PRO:CD	2.36	0.54
2:AK:73:LEU:HD22	2:AK:77:TYR:CD2	2.42	0.54
2:AK:129:PHE:CD1	2:AK:129:PHE:C	2.80	0.54
3:BI:158:LEU:CD1	3:BI:224:LEU:CD2	2.75	0.54
3:BI:290:LYS:HB3	3:BK:150:LEU:HD21	1.88	0.54
3:BJ:81:LEU:HD13	3:BJ:307:ILE:HD11	1.90	0.54
3:BJ:237:LEU:HD21	3:BJ:246:ILE:CD1	2.36	0.54
3:BL:266:SER:CA	3:BN:268:VAL:CG1	2.81	0.54
3:BM:268:VAL:CG2	3:BN:266:SER:CA	2.81	0.54
3:BM:271:ILE:HG12	3:BM:279:PRO:HG2	1.88	0.54
3:BN:272:THR:HG21	3:BN:277:THR:CG2	2.37	0.54
3:BO:197:PRO:HG2	3:BO:205:ILE:HG22	1.88	0.54
3:BQ:158:LEU:CD1	3:BQ:224:LEU:CD1	2.83	0.54
4:BY:619:LEU:HD21	4:BY:712:VAL:HG12	1.87	0.54
4:BY:698:PHE:HE2	4:BY:727:LEU:CD2	2.20	0.54
1:AA:317:LEU:HA	1:AA:652:PHE:HE2	1.73	0.54
1:AA:365:GLN:C	1:AA:366:PHE:CD1	2.81	0.54
1:AA:401:TYR:H	1:AA:401:TYR:HD1	1.51	0.54
1:AA:503:VAL:CG1	1:AA:506:LEU:HB3	2.36	0.54
1:AB:118:LYS:HG2	1:AB:119:GLN:H	1.72	0.54
2:AC:12:LYS:C	2:AC:14:ALA:N	2.60	0.54
2:AC:153:HIS:NE2	2:AE:153:HIS:NE2	2.54	0.54
2:AD:7:LEU:O	2:AD:11:LEU:HG	2.07	0.54
2:AF:167:ASN:ND2	2:AF:178:GLY:HA2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:54:LEU:HD12	2:AG:55:PRO:CD	2.36	0.54
2:AI:164:PHE:H	3:BL:61:GLY:CA	2.19	0.54
2:AJ:88:PHE:O	2:AJ:91:PHE:HB3	2.06	0.54
2:AK:27:VAL:O	2:AK:31:ILE:HG12	2.07	0.54
2:AK:165:THR:HA	3:BN:59:ILE:O	2.07	0.54
2:AL:167:ASN:ND2	2:AL:178:GLY:HA2	2.23	0.54
2:AM:30:LEU:O	2:AM:31:ILE:C	2.45	0.54
2:AN:12:LYS:C	2:AN:14:ALA:N	2.60	0.54
2:AO:144:ARG:O	2:AO:146:GLN:N	2.40	0.54
3:BF:76:PHE:CE2	3:BF:111:TRP:NE1	2.75	0.54
3:BF:191:CYS:HG	3:BF:244:CYS:CB	2.20	0.54
3:BF:288:ASN:OD1	3:BH:150:LEU:CD1	2.49	0.54
3:BG:70:SER:OG	3:BG:71:THR:N	2.40	0.54
3:BG:208:LEU:C	3:BG:210:THR:H	2.08	0.54
3:BH:76:PHE:CE2	3:BH:111:TRP:NE1	2.75	0.54
3:BH:109:LYS:HG3	3:BH:300:VAL:O	2.06	0.54
3:BH:267:ASP:OD1	3:BH:286:ARG:HD2	2.07	0.54
3:BJ:130:ASP:N	3:BJ:131:PRO:HD3	2.22	0.54
3:BK:257:ASN:HD21	3:BK:313:ARG:HG2	1.72	0.54
3:BM:76:PHE:CE2	3:BM:111:TRP:NE1	2.75	0.54
3:BM:76:PHE:HZ	3:BM:304:ASN:OD1	1.89	0.54
3:BN:197:PRO:HG2	3:BN:205:ILE:HG22	1.88	0.54
3:BP:108:THR:CG2	3:BP:109:LYS:N	2.69	0.54
3:BP:272:THR:HG21	3:BP:277:THR:HG22	1.89	0.54
3:BQ:108:THR:CG2	3:BQ:109:LYS:N	2.69	0.54
3:BQ:128:SER:HB2	3:BQ:224:LEU:HD22	1.88	0.54
3:BQ:277:THR:HG23	3:BQ:278:ALA:N	2.22	0.54
4:BY:1:MET:N	4:BY:635:ASP:OD2	2.39	0.54
4:BY:568:LEU:O	4:BY:571:ALA:HB3	2.07	0.54
4:BY:670:ASN:HB2	4:BY:687:ASP:OD1	2.06	0.54
4:BY:706:GLN:O	4:BY:708:PHE:N	2.41	0.54
1:AA:134:TYR:CE1	1:AA:803:ASN:CB	2.90	0.54
1:AA:492:VAL:HG22	1:AA:558:MET:SD	2.47	0.54
1:AA:717:MET:HG3	1:AA:718:TYR:H	1.71	0.54
1:AA:803:ASN:HD22	1:AA:806:SER:H	1.55	0.54
1:AB:246:HIS:HD2	1:AB:248:ILE:H	1.55	0.54
1:AB:285:ILE:O	1:AB:286:LEU:HD13	2.07	0.54
1:AB:684:LEU:O	1:AB:687:MET:HG2	2.08	0.54
1:AB:698:LYS:O	1:AB:699:ILE:HB	2.06	0.54
2:AC:106:ARG:HG2	2:AC:107:ASN:H	1.71	0.54
2:AC:299:ASN:ND2	3:BH:71:THR:OG1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:88:PHE:O	2:AG:91:PHE:HB3	2.06	0.54
2:AJ:68:THR:HG22	2:AJ:68:THR:O	2.07	0.54
2:AM:133:SER:O	2:AM:135:TYR:N	2.40	0.54
3:BF:128:SER:CB	3:BF:155:LEU:CD1	2.63	0.54
3:BG:259:ALA:HB1	3:BG:285:MET:HE3	1.89	0.54
3:BL:136:ASP:OD1	3:BL:315:ARG:NH1	2.41	0.54
3:BL:174:TYR:HD1	3:BL:198:LEU:HD12	1.63	0.54
3:BN:175:TYR:CE1	3:BN:237:LEU:CB	2.90	0.54
4:BX:31:GLN:HA	4:BY:34:THR:O	2.07	0.54
4:BX:551:LYS:HG3	4:BX:657:PRO:HB3	1.89	0.54
4:BZ:519:ASP:C	4:BZ:521:ALA:H	2.08	0.54
4:BZ:590:ALA:HA	4:BZ:594:VAL:HG23	1.87	0.54
4:BZ:748:ASP:OD1	4:BZ:750:ARG:N	2.41	0.54
1:AA:124:ARG:CD	1:AA:203:GLU:OE1	2.55	0.54
1:AA:437:TYR:H	1:AA:438:PRO:HD2	1.70	0.54
1:AA:587:LEU:C	1:AA:588:ILE:HG13	2.28	0.54
1:AB:180:TYR:CE2	1:AB:850:VAL:CG2	2.82	0.54
1:AB:260:GLN:O	1:AB:262:VAL:N	2.40	0.54
1:AB:333:VAL:HG11	1:AB:380:LYS:HA	1.89	0.54
1:AB:792:VAL:O	1:AB:792:VAL:HG23	2.06	0.54
2:AE:24:TYR:O	2:AE:26:ASN:N	2.40	0.54
2:AF:12:LYS:C	2:AF:14:ALA:N	2.60	0.54
2:AG:255:ARG:HD2	3:BK:65:THR:OG1	2.02	0.54
2:AI:171:PRO:HD2	3:BJ:322:PHE:HZ	1.64	0.54
2:AK:133:SER:O	2:AK:135:TYR:N	2.41	0.54
2:AL:241:ALA:HB3	3:BP:59:ILE:CG2	2.36	0.54
2:AO:30:LEU:O	2:AO:31:ILE:C	2.45	0.54
3:BA:76:PHE:CE2	3:BA:111:TRP:NE1	2.75	0.54
3:BA:76:PHE:HZ	3:BA:304:ASN:OD1	1.89	0.54
3:BA:108:THR:CG2	3:BA:109:LYS:N	2.69	0.54
3:BF:197:PRO:HG2	3:BF:205:ILE:HG22	1.88	0.54
3:BG:75:THR:HG23	3:BG:79:SER:OG	2.08	0.54
3:BG:144:TYR:N	3:BG:263:VAL:O	2.40	0.54
3:BH:125:ALA:C	3:BH:223:LYS:HZ2	2.10	0.54
3:BI:275:PRO:CD	3:BI:276:THR:N	2.66	0.54
3:BK:277:THR:HG23	3:BK:278:ALA:N	2.22	0.54
3:BL:180:GLU:O	3:BL:180:GLU:HG3	2.08	0.54
3:BM:128:SER:HB2	3:BM:155:LEU:CD1	2.21	0.54
3:BM:277:THR:HG23	3:BM:278:ALA:N	2.22	0.54
3:BO:268:VAL:HG21	3:BP:266:SER:HA	1.89	0.54
3:BP:180:GLU:HG3	3:BP:180:GLU:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:259:ALA:HB1	3:BP:285:MET:CE	2.38	0.54
3:BQ:272:THR:HG21	3:BQ:277:THR:HG22	1.89	0.54
4:BX:36:ASN:O	4:BX:37:LEU:CB	2.56	0.54
4:BX:262:TRP:HE3	4:BX:473:LEU:O	1.89	0.54
4:BX:655:THR:O	4:BX:656:LEU:C	2.46	0.54
4:BX:734:TYR:CE2	4:BX:761:PRO:HB3	2.42	0.54
4:BY:463:GLU:C	4:BY:464:VAL:HG23	2.28	0.54
4:BY:488:VAL:HG23	4:BZ:432:VAL:HG12	1.88	0.54
1:AA:374:ALA:HB1	1:AA:580:SER:HA	1.90	0.54
1:AB:302:ASN:HD21	1:AB:615:ASN:HB3	1.73	0.54
2:AE:12:LYS:C	2:AE:14:ALA:N	2.60	0.54
2:AE:133:SER:O	2:AE:136:ILE:HG22	2.07	0.54
2:AF:57:ARG:HH11	2:AF:94:ASN:ND2	1.96	0.54
2:AF:164:PHE:C	3:BI:61:GLY:HA3	2.15	0.54
2:AH:73:LEU:HD22	2:AH:77:TYR:CD2	2.42	0.54
2:AK:152:PHE:N	2:AK:152:PHE:CD1	2.75	0.54
2:AO:38:ILE:HG22	2:AO:42:ASN:ND2	2.18	0.54
3:BA:85:TYR:HE2	3:BA:118:PHE:HB3	1.72	0.54
3:BA:99:LYS:HA	3:BA:118:PHE:CE1	2.43	0.54
3:BH:272:THR:HG21	3:BH:277:THR:HG22	1.89	0.54
3:BI:289:TRP:CH2	3:BI:292:TRP:CE2	2.96	0.54
3:BJ:275:PRO:CB	3:BK:285:MET:SD	2.91	0.54
3:BK:55:ILE:O	3:BK:56:ASN:HB3	2.06	0.54
3:BK:175:TYR:HD1	3:BK:184:TRP:CZ2	2.26	0.54
3:BM:128:SER:CB	3:BM:155:LEU:CD1	2.83	0.54
3:BN:117:TYR:CE2	3:BP:167:PRO:O	2.61	0.54
4:BX:2:ALA:HA	4:BX:5:ILE:HG23	1.90	0.54
4:BX:505:PHE:CE2	4:BX:644:LYS:HG3	2.43	0.54
4:BX:726:THR:HG21	4:BX:766:ARG:HD3	1.88	0.54
4:BY:264:GLU:CA	4:BY:473:LEU:HD22	2.35	0.54
4:BZ:411:LEU:HD23	4:BZ:424:LEU:HD22	1.88	0.54
4:BZ:502:ARG:O	4:BZ:504:GLU:N	2.40	0.54
4:BZ:734:TYR:OH	4:BZ:761:PRO:CG	2.55	0.54
1:AA:359:THR:HG22	1:AA:360:ILE:N	2.22	0.54
1:AA:469:ALA:CB	2:AG:71:LEU:HD21	2.22	0.54
1:AB:442:MET:HG2	1:AB:443:GLN:N	2.23	0.54
1:AB:508:GLU:OE2	2:AJ:71:LEU:CD2	2.53	0.54
2:AC:133:SER:O	2:AC:135:TYR:N	2.41	0.54
2:AJ:30:LEU:O	2:AJ:31:ILE:C	2.45	0.54
2:AK:145:ARG:CD	2:AL:142:GLN:O	2.36	0.54
2:AM:220:THR:O	2:AM:220:THR:CG2	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AN:133:SER:O	2:AN:135:TYR:N	2.41	0.54
2:AO:158:PHE:HE2	2:AO:214:LEU:HD22	1.73	0.54
3:BA:277:THR:HG23	3:BA:278:ALA:N	2.22	0.54
3:BF:104:GLN:HB2	3:BH:205:ILE:CD1	2.30	0.54
3:BF:277:THR:HG23	3:BF:278:ALA:N	2.22	0.54
3:BG:59:ILE:HD11	3:BO:56:ASN:ND2	2.23	0.54
3:BG:237:LEU:HD21	3:BG:246:ILE:CD1	2.36	0.54
3:BH:180:GLU:HG3	3:BH:180:GLU:O	2.07	0.54
3:BI:277:THR:HG23	3:BI:278:ALA:N	2.22	0.54
3:BJ:259:ALA:HB1	3:BJ:285:MET:CE	2.38	0.54
3:BJ:277:THR:HG23	3:BJ:278:ALA:N	2.22	0.54
3:BL:129:VAL:C	3:BL:131:PRO:HD3	2.27	0.54
3:BL:272:THR:HG21	3:BL:277:THR:CG2	2.37	0.54
3:BM:168:MET:HE2	3:BM:175:TYR:CD2	2.42	0.54
3:BP:88:GLU:HG2	3:BP:143:LYS:NZ	2.23	0.54
3:BQ:180:GLU:HG3	3:BQ:180:GLU:O	2.07	0.54
3:BQ:259:ALA:HB1	3:BQ:285:MET:CE	2.38	0.54
4:BX:7:ARG:HD2	4:BX:625:ALA:HA	1.89	0.54
4:BX:354:ASP:CA	4:BX:424:LEU:O	2.53	0.54
4:BX:574:SER:HB3	4:BX:578:GLY:HA2	1.89	0.54
4:BX:710:ASP:C	4:BX:712:VAL:H	2.10	0.54
4:BY:569:SER:HB2	4:BY:570:ASP:OD1	2.08	0.54
4:BY:597:GLN:O	4:BY:599:THR:HG22	2.07	0.54
4:BY:672:ALA:HB2	4:BY:685:GLY:HA2	1.88	0.54
4:BZ:2:ALA:HB3	4:BZ:635:ASP:HA	1.90	0.54
4:BZ:719:SER:O	4:BZ:720:ALA:C	2.46	0.54
1:AA:265:LEU:CG	1:AA:292:LEU:HD12	2.37	0.54
1:AA:550:LEU:O	1:AA:551:ALA:C	2.45	0.54
1:AA:606:VAL:O	1:AA:607:ASN:C	2.44	0.54
1:AB:392:MET:O	1:AB:420:ILE:HG22	2.08	0.54
1:AB:878:ASN:OD1	1:AB:878:ASN:O	2.25	0.54
2:AG:100:MET:HG3	2:AG:388:VAL:HG11	1.89	0.54
2:AL:163:SER:OG	3:BP:62:SER:CA	2.56	0.54
3:BF:180:GLU:O	3:BF:180:GLU:HG3	2.07	0.54
3:BI:259:ALA:HB1	3:BI:285:MET:CE	2.38	0.54
3:BJ:76:PHE:HZ	3:BJ:304:ASN:OD1	1.90	0.54
3:BJ:234:ASN:O	3:BJ:235:HIS:CD2	2.60	0.54
3:BK:54:GLY:C	3:BK:55:ILE:HG22	2.27	0.54
3:BK:272:THR:CG2	3:BK:277:THR:HG22	2.30	0.54
3:BL:109:LYS:HZ2	4:BX:496:ARG:HH21	1.55	0.54
3:BM:175:TYR:HD1	3:BM:184:TRP:CZ2	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BO:175:TYR:HD1	3:BO:184:TRP:CZ2	2.26	0.54
4:BX:355:TYR:H	4:BX:424:LEU:H	1.54	0.54
4:BY:524:PRO:O	4:BY:526:ASP:N	2.39	0.54
4:BZ:305:TYR:HE1	4:BZ:307:ARG:NE	2.03	0.54
4:BZ:505:PHE:CE2	4:BZ:644:LYS:HG3	2.43	0.54
1:AA:613:ASN:O	1:AA:617:ARG:HG2	2.08	0.54
1:AA:804:SER:HB3	1:AA:813:ALA:HB2	1.88	0.54
1:AA:839:MET:HE3	1:AA:839:MET:C	2.28	0.54
1:AB:228:MET:HG3	1:AB:228:MET:O	2.07	0.54
1:AB:427:CYS:O	1:AB:431:ILE:HG13	2.07	0.54
1:AB:510:LEU:CB	1:AB:540:LEU:HD13	2.38	0.54
1:AB:521:MET:CB	1:AB:522:PRO:CD	2.86	0.54
1:AB:645:PHE:CD2	1:AB:646:LEU:HD23	2.42	0.54
1:AB:839:MET:C	1:AB:839:MET:SD	2.86	0.54
2:AC:158:PHE:HE2	2:AC:214:LEU:HD22	1.73	0.54
2:AC:168:ARG:HG3	3:BO:53:TYR:CE1	2.38	0.54
2:AD:167:ASN:ND2	2:AD:178:GLY:HA2	2.22	0.54
2:AG:310:ASN:OD1	3:BK:305:GLN:NE2	2.40	0.54
2:AK:310:ASN:CB	3:BN:180:GLU:OE2	2.56	0.54
2:AN:129:PHE:CD1	2:AN:129:PHE:C	2.80	0.54
3:BA:180:GLU:HG3	3:BA:180:GLU:O	2.07	0.54
3:BF:150:LEU:CD2	3:BG:290:LYS:CE	2.79	0.54
3:BF:259:ALA:HB1	3:BF:285:MET:CE	2.38	0.54
3:BG:52:ASN:ND2	3:BO:55:ILE:HB	2.23	0.54
3:BH:76:PHE:HE2	3:BH:111:TRP:HE1	1.56	0.54
3:BH:149:GLN:CG	3:BH:150:LEU:H	2.21	0.54
3:BH:259:ALA:HB1	3:BH:285:MET:CE	2.38	0.54
3:BH:277:THR:HG23	3:BH:278:ALA:N	2.22	0.54
3:BI:76:PHE:HE2	3:BI:111:TRP:HE1	1.56	0.54
3:BJ:322:PHE:CD2	3:BL:313:ARG:CG	2.81	0.54
3:BK:76:PHE:CE2	3:BK:111:TRP:NE1	2.75	0.54
3:BK:267:ASP:C	3:BK:268:VAL:HG23	2.25	0.54
3:BL:170:ILE:CD1	3:BL:239:VAL:HG23	2.38	0.54
3:BM:197:PRO:HG2	3:BM:205:ILE:HG22	1.88	0.54
3:BN:136:ASP:HB3	3:BN:312:LYS:HG3	1.90	0.54
3:BO:234:ASN:O	3:BO:235:HIS:CD2	2.60	0.54
3:BP:197:PRO:HG2	3:BP:205:ILE:HG22	1.88	0.54
3:BP:237:LEU:HD21	3:BP:246:ILE:CD1	2.36	0.54
3:BQ:144:TYR:HD1	3:BQ:265:GLY:HA3	1.72	0.54
4:BX:333:LEU:HG	4:BX:334:PRO:CD	2.37	0.54
4:BY:77:PRO:HD3	4:BY:287:LEU:CD1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:681:VAL:HB	4:BY:693:TYR:HD1	1.65	0.54
1:AA:124:ARG:NH2	1:AA:203:GLU:HB2	2.23	0.54
1:AA:200:VAL:CG2	1:AA:243:SER:HB3	2.38	0.54
1:AA:712:LEU:HG	1:AA:819:PRO:CB	2.35	0.54
1:AB:392:MET:HE1	1:AB:576:LEU:CD1	2.38	0.54
1:AB:454:THR:HG22	1:AB:456:PHE:H	1.73	0.54
2:AC:364:GLY:HA3	4:BY:733:ASN:CB	2.30	0.54
2:AE:158:PHE:HE2	2:AE:214:LEU:HD22	1.73	0.54
2:AG:133:SER:O	2:AG:135:TYR:N	2.40	0.54
2:AG:167:ASN:ND2	2:AG:178:GLY:HA2	2.23	0.54
2:AK:169:SER:H	3:BP:51:GLN:CA	2.21	0.54
2:AN:27:VAL:O	2:AN:31:ILE:HG12	2.07	0.54
2:AO:9:LYS:O	2:AO:13:ASP:HB2	2.08	0.54
3:BA:197:PRO:HG2	3:BA:205:ILE:HG22	1.89	0.54
3:BA:237:LEU:HD21	3:BA:246:ILE:CD1	2.36	0.54
3:BF:76:PHE:HE2	3:BF:111:TRP:HE1	1.56	0.54
3:BF:210:THR:CG2	4:BZ:379:ILE:HG13	2.33	0.54
3:BG:130:ASP:OD1	3:BG:130:ASP:C	2.46	0.54
3:BH:234:ASN:O	3:BH:235:HIS:CD2	2.60	0.54
3:BH:252:LEU:CG	3:BH:253:GLY:H	2.20	0.54
3:BH:307:ILE:HA	3:BH:310:MET:HE2	1.88	0.54
3:BK:76:PHE:HE2	3:BK:111:TRP:HE1	1.56	0.54
3:BL:164:LEU:HA	3:BL:322:PHE:HD1	1.73	0.54
3:BL:174:TYR:CD1	3:BL:198:LEU:HD13	2.35	0.54
3:BN:180:GLU:HG3	3:BN:180:GLU:O	2.07	0.54
3:BP:76:PHE:CE1	3:BP:304:ASN:OD1	2.60	0.54
3:BP:277:THR:HG23	3:BP:278:ALA:N	2.22	0.54
4:BX:537:THR:CG2	4:BX:541:ALA:H	2.21	0.54
4:BX:591:TRP:N	4:BX:591:TRP:CD1	2.72	0.54
4:BY:270:ASP:CA	4:BY:307:ARG:HD2	2.38	0.54
4:BY:355:TYR:HE1	4:BY:357:ASP:OD2	1.91	0.54
4:BY:555:SER:OG	4:BY:556:GLY:N	2.41	0.54
4:BY:745:LEU:C	4:BY:747:SER:N	2.61	0.54
4:BZ:411:LEU:HD23	4:BZ:424:LEU:CD2	2.37	0.54
4:BZ:731:ASN:CA	4:BZ:736:ILE:HD12	2.30	0.54
4:BZ:753:ARG:HG3	4:BZ:753:ARG:NH1	2.21	0.54
1:AA:125:ILE:O	1:AA:150:LEU:HD12	2.08	0.54
1:AA:442:MET:HG3	1:AA:442:MET:O	2.08	0.54
1:AB:392:MET:CE	1:AB:576:LEU:CD1	2.86	0.54
2:AE:73:LEU:HD22	2:AE:77:TYR:CD2	2.42	0.54
2:AE:167:ASN:ND2	2:AE:178:GLY:HA2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AF:310:ASN:OD1	3:BJ:305:GLN:NE2	2.40	0.54
2:AH:158:PHE:HE2	2:AH:214:LEU:HD22	1.73	0.54
2:AJ:9:LYS:O	2:AJ:13:ASP:HB2	2.08	0.54
2:AL:158:PHE:HE2	2:AL:214:LEU:HD22	1.73	0.54
2:AM:130:ASP:CG	2:AN:17:LYS:HE3	2.29	0.54
3:BF:288:ASN:HD21	3:BH:153:SER:HB2	1.73	0.54
3:BG:76:PHE:CD2	3:BG:110:GLY:O	2.61	0.54
3:BL:228:ASP:O	3:BM:294:GLN:NE2	2.41	0.54
3:BL:252:LEU:CG	3:BL:253:GLY:H	2.19	0.54
3:BM:262:GLN:OE1	3:BM:267:ASP:HA	2.07	0.54
3:BN:312:LYS:O	3:BN:315:ARG:HB3	2.08	0.54
3:BO:180:GLU:HG3	3:BO:180:GLU:O	2.07	0.54
3:BQ:64:ASP:C	3:BQ:65:THR:HG1	2.03	0.54
4:BX:33:VAL:CB	4:BY:36:ASN:CB	2.86	0.54
4:BX:66:ASP:CG	4:BX:286:GLY:N	2.60	0.54
4:BX:607:SER:O	4:BX:608:ILE:C	2.45	0.54
4:BX:656:LEU:O	4:BX:660:VAL:HG23	2.08	0.54
4:BX:706:GLN:O	4:BX:708:PHE:N	2.41	0.54
4:BY:269:ARG:HH11	4:BY:269:ARG:HG3	1.73	0.54
4:BY:660:VAL:O	4:BY:663:ALA:HB3	2.07	0.54
4:BY:693:TYR:CD1	4:BY:693:TYR:N	2.76	0.54
4:BY:718:ILE:CD1	4:BY:746:ARG:HA	2.31	0.54
4:BY:738:ARG:HG2	4:BY:738:ARG:HH11	1.72	0.54
4:BZ:17:ASP:O	4:BZ:18:LEU:C	2.44	0.54
4:BZ:677:ASN:ND2	4:BZ:711:LEU:HD11	2.22	0.54
1:AA:119:GLN:HG2	1:AA:181:LEU:HD13	1.88	0.53
1:AA:810:TYR:O	1:AA:813:ALA:N	2.41	0.53
1:AB:266:ASN:O	1:AB:267:ASN:C	2.45	0.53
1:AB:650:GLN:O	1:AB:652:PHE:N	2.41	0.53
1:AB:743:ASP:CB	1:AB:790:ARG:HH12	2.20	0.53
1:AB:811:LEU:HA	1:AB:814:ASN:ND2	2.23	0.53
1:AB:872:ASP:CG	1:AB:874:MET:H	2.11	0.53
2:AD:12:LYS:C	2:AD:14:ALA:N	2.60	0.53
2:AD:155:PRO:O	2:AD:186:SER:HB3	2.09	0.53
2:AE:133:SER:O	2:AE:135:TYR:N	2.41	0.53
2:AJ:100:MET:HG3	2:AJ:388:VAL:HG11	1.89	0.53
2:AM:12:LYS:C	2:AM:14:ALA:N	2.60	0.53
2:AM:167:ASN:ND2	2:AM:178:GLY:HA2	2.22	0.53
3:BA:76:PHE:HE2	3:BA:111:TRP:HE1	1.56	0.53
3:BG:228:ASP:O	3:BH:294:GLN:NE2	2.41	0.53
3:BI:129:VAL:HG21	3:BI:223:LYS:NZ	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:76:PHE:HE2	3:BJ:111:TRP:HE1	1.56	0.53
3:BK:129:VAL:HG21	3:BK:223:LYS:NZ	2.23	0.53
3:BL:70:SER:O	3:BL:71:THR:CB	2.56	0.53
3:BL:234:ASN:O	3:BL:235:HIS:CD2	2.60	0.53
3:BM:268:VAL:HG11	3:BN:267:ASP:N	2.23	0.53
3:BN:123:ASP:OD1	3:BN:126:SER:N	2.40	0.53
3:BN:126:SER:HA	3:BN:223:LYS:HZ2	1.64	0.53
3:BN:167:PRO:HA	3:BN:247:ARG:HD3	1.90	0.53
3:BO:55:ILE:CD1	3:BO:323:TYR:HD1	2.20	0.53
3:BP:175:TYR:HD1	3:BP:184:TRP:CZ2	2.26	0.53
3:BQ:234:ASN:O	3:BQ:235:HIS:CD2	2.60	0.53
4:BX:501:LEU:CD2	4:BX:650:GLN:HB2	2.38	0.53
4:BX:552:PHE:O	4:BX:554:LYS:N	2.40	0.53
4:BY:522:LEU:CD1	4:BY:749:PRO:HB3	2.37	0.53
4:BY:620:ARG:O	4:BY:621:LEU:C	2.46	0.53
4:BZ:547:SER:O	4:BZ:551:LYS:HG2	2.08	0.53
1:AA:275:PRO:HG2	1:AA:278:ILE:HD12	1.89	0.53
1:AA:535:LEU:O	1:AA:539:ARG:HG2	2.09	0.53
1:AA:846:LEU:O	1:AA:847:THR:O	2.27	0.53
1:AB:444:ARG:HH21	1:AB:520:THR:CG2	2.11	0.53
1:AB:480:PHE:HE2	1:AB:493:LEU:O	1.91	0.53
1:AB:482:GLN:C	1:AB:483:VAL:CG2	2.73	0.53
1:AB:495:ASP:OD1	1:AB:496:ASN:N	2.42	0.53
1:AB:508:GLU:O	1:AB:512:GLN:NE2	2.39	0.53
1:AB:701:GLN:O	1:AB:826:TYR:CB	2.56	0.53
1:AB:707:TYR:OH	1:AB:751:LEU:HD12	2.08	0.53
2:AD:241:ALA:HB1	3:BH:59:ILE:CG2	2.31	0.53
2:AF:133:SER:O	2:AF:135:TYR:N	2.41	0.53
2:AH:27:VAL:O	2:AH:31:ILE:HG12	2.07	0.53
2:AK:158:PHE:HE2	2:AK:214:LEU:HD22	1.73	0.53
2:AO:215:ARG:HG3	2:AO:371:ILE:O	2.09	0.53
3:BA:128:SER:HB2	3:BA:224:LEU:HD22	1.90	0.53
3:BF:79:SER:HB3	3:BF:312:LYS:HE3	1.91	0.53
3:BF:162:GLU:OE1	3:BF:253:GLY:HA3	2.07	0.53
3:BG:76:PHE:HZ	3:BG:304:ASN:OD1	1.89	0.53
3:BI:144:TYR:HD1	3:BI:265:GLY:HA3	1.73	0.53
3:BK:129:VAL:HG22	3:BK:223:LYS:O	2.07	0.53
3:BK:130:ASP:N	3:BK:131:PRO:HD3	2.23	0.53
3:BM:180:GLU:HG3	3:BM:180:GLU:O	2.07	0.53
3:BM:259:ALA:HB1	3:BM:285:MET:CE	2.38	0.53
3:BN:272:THR:HG21	3:BN:277:THR:HG22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:277:THR:HG23	3:BN:278:ALA:N	2.22	0.53
3:BO:126:SER:O	3:BO:129:VAL:CG2	2.53	0.53
4:BX:656:LEU:HB2	4:BX:657:PRO:HD3	1.88	0.53
4:BX:758:GLN:HA	4:BX:758:GLN:OE1	2.07	0.53
4:BY:721:ILE:HG22	4:BY:722:ILE:CG2	2.38	0.53
1:AA:135:ARG:O	1:AA:136:ALA:C	2.46	0.53
1:AA:589:GLY:O	1:AA:591:ALA:N	2.35	0.53
1:AA:802:ILE:HA	1:AA:807:ASN:ND2	2.24	0.53
1:AB:134:TYR:CE2	1:AB:803:ASN:HB2	2.43	0.53
1:AB:199:VAL:CG1	1:AB:200:VAL:H	2.20	0.53
1:AB:857:PHE:HD1	1:AB:857:PHE:H	1.56	0.53
2:AD:130:ASP:CG	2:AE:17:LYS:HE3	2.29	0.53
2:AD:215:ARG:HG3	2:AD:371:ILE:O	2.09	0.53
2:AH:12:LYS:C	2:AH:14:ALA:N	2.60	0.53
2:AK:167:ASN:ND2	2:AK:178:GLY:HA2	2.22	0.53
2:AL:133:SER:O	2:AL:135:TYR:N	2.41	0.53
2:AM:72:ASN:O	2:AM:72:ASN:OD1	2.27	0.53
3:BH:70:SER:O	3:BH:71:THR:CB	2.57	0.53
3:BN:173:TYR:CA	4:BX:489:THR:HG21	2.36	0.53
3:BO:197:PRO:HA	3:BO:235:HIS:CD2	2.44	0.53
3:BO:277:THR:HG23	3:BO:278:ALA:N	2.22	0.53
3:BO:321:ALA:O	3:BO:323:TYR:N	2.41	0.53
3:BP:76:PHE:HZ	3:BP:304:ASN:OD1	1.91	0.53
4:BX:619:LEU:HD21	4:BX:712:VAL:CG1	2.39	0.53
4:BX:670:ASN:HB2	4:BX:687:ASP:OD1	2.08	0.53
4:BY:721:ILE:HG22	4:BY:722:ILE:N	2.22	0.53
4:BZ:4:LEU:O	4:BZ:5:ILE:C	2.47	0.53
4:BZ:269:ARG:HH22	4:BZ:359:SER:CB	2.04	0.53
1:AA:126:PHE:HD2	1:AA:150:LEU:HA	1.73	0.53
1:AA:252:PHE:O	1:AA:254:GLU:N	2.42	0.53
1:AA:275:PRO:CG	1:AA:278:ILE:HD12	2.39	0.53
1:AA:469:ALA:CA	2:AG:71:LEU:CD2	2.86	0.53
1:AA:604:TYR:O	1:AA:608:VAL:HG23	2.08	0.53
1:AB:288:MET:HA	1:AB:288:MET:CE	2.39	0.53
1:AB:405:ILE:HG21	1:AB:536:LEU:HD12	1.88	0.53
1:AB:803:ASN:N	1:AB:807:ASN:ND2	2.57	0.53
1:AB:810:TYR:CE2	1:AB:813:ALA:HB3	2.43	0.53
2:AC:21:GLY:O	2:AC:22:THR:O	2.27	0.53
2:AG:158:PHE:HE2	2:AG:214:LEU:HD22	1.74	0.53
2:AI:168:ARG:CZ	3:BJ:53:TYR:HE2	2.21	0.53
2:AI:246:THR:CG2	3:BL:67:TYR:HE2	1.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:215:ARG:HG3	2:AL:371:ILE:O	2.09	0.53
2:AO:133:SER:O	2:AO:135:TYR:N	2.42	0.53
3:BF:275:PRO:CB	3:BG:285:MET:SD	2.90	0.53
3:BG:150:LEU:HD21	3:BH:290:LYS:CG	2.39	0.53
3:BH:76:PHE:HZ	3:BH:304:ASN:OD1	1.89	0.53
3:BJ:197:PRO:HA	3:BJ:235:HIS:CD2	2.44	0.53
3:BK:191:CYS:HG	3:BK:244:CYS:CB	2.22	0.53
3:BL:268:VAL:HG12	3:BL:269:LEU:CA	2.36	0.53
3:BM:150:LEU:HD22	3:BN:289:TRP:C	2.24	0.53
3:BN:174:TYR:CD1	4:BX:489:THR:HG23	2.40	0.53
3:BP:144:TYR:HD1	3:BP:265:GLY:HA3	1.74	0.53
4:BX:1:MET:N	4:BX:635:ASP:OD2	2.41	0.53
4:BX:66:ASP:CB	4:BX:285:GLY:C	2.64	0.53
4:BX:762:ILE:O	4:BX:764:ARG:N	2.41	0.53
4:BY:40:PHE:CD2	4:BY:259:THR:HG21	2.39	0.53
4:BY:287:LEU:HD23	4:BY:287:LEU:O	2.08	0.53
4:BY:641:LEU:O	4:BY:643:THR:N	2.42	0.53
4:BZ:371:LEU:CD1	4:BZ:424:LEU:HD13	2.39	0.53
4:BZ:419:VAL:CG1	4:BZ:420:SER:H	2.15	0.53
4:BZ:656:LEU:HB2	4:BZ:657:PRO:HD3	1.91	0.53
1:AA:283:ASN:OD1	1:AA:869:VAL:N	2.42	0.53
1:AA:803:ASN:C	1:AA:805:ASP:N	2.62	0.53
1:AB:124:ARG:NH2	1:AB:203:GLU:HB2	2.24	0.53
1:AB:368:THR:HG22	1:AB:371:ASN:ND2	2.19	0.53
1:AB:556:THR:O	1:AB:557:LEU:C	2.45	0.53
2:AG:155:PRO:O	2:AG:186:SER:HB3	2.09	0.53
2:AH:133:SER:O	2:AH:135:TYR:N	2.41	0.53
2:AI:133:SER:O	2:AI:135:TYR:N	2.41	0.53
2:AL:27:VAL:O	2:AL:30:LEU:N	2.42	0.53
3:BF:170:ILE:HG12	3:BF:237:LEU:HD23	1.91	0.53
3:BG:64:ASP:O	3:BG:65:THR:HB	2.08	0.53
3:BG:180:GLU:HG3	3:BG:180:GLU:O	2.07	0.53
3:BG:197:PRO:HA	3:BG:235:HIS:CD2	2.44	0.53
3:BH:263:VAL:CG1	3:BH:289:TRP:HB2	2.39	0.53
3:BI:161:ASN:HD22	3:BI:254:PRO:HA	1.73	0.53
3:BL:109:LYS:HZ2	4:BX:496:ARG:NH2	2.05	0.53
3:BL:144:TYR:HD1	3:BL:265:GLY:HA3	1.74	0.53
3:BN:144:TYR:HD1	3:BN:265:GLY:HA3	1.73	0.53
3:BP:197:PRO:HA	3:BP:235:HIS:CD2	2.43	0.53
3:BQ:166:ASN:C	3:BQ:247:ARG:HD2	2.29	0.53
4:BX:617:ARG:HE	4:BX:620:ARG:HH22	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:48:VAL:HG21	4:BZ:393:GLN:HB3	1.89	0.53
4:BY:568:LEU:HD12	4:BZ:520:LEU:HD13	1.89	0.53
4:BY:668:ILE:CG2	4:BY:671:ARG:HD3	2.38	0.53
4:BZ:575:ILE:HG23	4:BZ:576:SER:H	1.73	0.53
1:AA:307:ARG:HB3	1:AA:672:LEU:HD21	1.90	0.53
1:AA:622:VAL:HG22	1:AA:672:LEU:HB2	1.89	0.53
1:AA:725:ARG:CZ	1:AA:829:ILE:CD1	2.84	0.53
1:AA:732:GLN:O	1:AA:733:ILE:HG23	2.09	0.53
1:AA:765:PHE:C	1:AA:765:PHE:CD1	2.81	0.53
1:AA:807:ASN:C	1:AA:809:PHE:H	2.12	0.53
1:AB:457:GLN:OE1	1:AB:457:GLN:HA	2.06	0.53
2:AC:30:LEU:O	2:AC:31:ILE:C	2.44	0.53
2:AD:9:LYS:O	2:AD:13:ASP:HB2	2.08	0.53
2:AO:155:PRO:O	2:AO:186:SER:HB3	2.09	0.53
3:BF:199:ASN:CG	4:BY:492:GLN:HB2	2.29	0.53
3:BI:78:THR:HG22	3:BI:78:THR:O	2.08	0.53
3:BI:180:GLU:O	3:BI:180:GLU:HG3	2.07	0.53
3:BI:307:ILE:HA	3:BI:310:MET:CE	2.38	0.53
3:BM:170:ILE:HG12	3:BM:237:LEU:HD23	1.91	0.53
3:BO:174:TYR:HE1	3:BO:234:ASN:HB2	1.72	0.53
3:BO:294:GLN:NE2	3:BQ:228:ASP:O	2.41	0.53
3:BP:168:MET:HE3	3:BP:175:TYR:CE2	2.44	0.53
3:BQ:197:PRO:HA	3:BQ:235:HIS:CD2	2.44	0.53
4:BX:287:LEU:O	4:BX:287:LEU:HD23	2.08	0.53
4:BX:442:THR:CG2	4:BX:443:ARG:H	2.22	0.53
4:BX:519:ASP:C	4:BX:521:ALA:H	2.11	0.53
4:BY:543:SER:O	4:BY:546:THR:HB	2.08	0.53
4:BZ:328:PHE:HE1	4:BZ:443:ARG:HG3	1.73	0.53
1:AA:729:GLY:C	1:AA:730:PHE:CD1	2.82	0.53
1:AB:308:LEU:HB3	1:AB:310:LEU:CD2	2.39	0.53
1:AB:363:GLU:OE1	1:AB:363:GLU:HA	2.09	0.53
2:AG:150:PHE:HB2	2:AG:152:PHE:HE1	1.68	0.53
2:AI:255:ARG:NE	3:BM:65:THR:OG1	2.41	0.53
2:AJ:171:PRO:HG3	3:BM:312:LYS:HZ3	1.73	0.53
2:AO:167:ASN:ND2	2:AO:178:GLY:HA2	2.23	0.53
3:BA:170:ILE:HG12	3:BA:237:LEU:HD23	1.91	0.53
3:BI:312:LYS:CE	3:BI:315:ARG:HH12	2.19	0.53
3:BJ:149:GLN:HG3	3:BJ:150:LEU:N	2.24	0.53
3:BJ:175:TYR:HD1	3:BJ:184:TRP:CZ2	2.26	0.53
3:BL:75:THR:HG23	3:BL:79:SER:OG	2.09	0.53
3:BL:76:PHE:HE2	3:BL:111:TRP:HE1	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BO:174:TYR:CD1	3:BO:198:LEU:HD11	2.34	0.53
3:BO:268:VAL:CG2	3:BP:266:SER:CB	2.87	0.53
3:BQ:237:LEU:HD21	3:BQ:246:ILE:CD1	2.36	0.53
4:BX:575:ILE:HB	4:BY:513:ALA:HB2	1.91	0.53
4:BX:645:ILE:HA	4:BX:651:ILE:HD12	1.91	0.53
4:BY:40:PHE:HE2	4:BY:259:THR:HG21	1.72	0.53
4:BY:674:ARG:HG2	4:BY:720:ALA:HB2	1.90	0.53
4:BZ:368:VAL:O	4:BZ:537:THR:O	2.27	0.53
4:BZ:601:VAL:HG12	4:BZ:602:SER:H	1.72	0.53
4:BZ:624:MET:O	4:BZ:626:THR:N	2.33	0.53
4:BZ:708:PHE:O	4:BZ:709:ALA:C	2.47	0.53
1:AA:188:VAL:CG1	1:AA:189:GLU:N	2.72	0.53
1:AA:195:ASP:CG	1:AA:196:ALA:H	2.12	0.53
1:AA:250:HIS:CG	1:AA:840:HIS:HB2	2.44	0.53
1:AA:308:LEU:HB2	1:AA:614:TYR:OH	2.07	0.53
1:AA:688:ASN:O	1:AA:689:MET:C	2.47	0.53
1:AA:817:TRP:O	1:AA:818:VAL:CB	2.56	0.53
1:AB:180:TYR:CD1	1:AB:180:TYR:C	2.82	0.53
1:AB:378:CYS:SG	1:AB:581:VAL:HA	2.49	0.53
2:AC:27:VAL:O	2:AC:30:LEU:N	2.42	0.53
2:AG:9:LYS:O	2:AG:13:ASP:HB2	2.08	0.53
2:AG:215:ARG:HG3	2:AG:371:ILE:O	2.09	0.53
2:AH:35:ASN:CB	2:AH:65:LEU:HD13	2.38	0.53
2:AJ:158:PHE:HE2	2:AJ:214:LEU:HD22	1.74	0.53
2:AM:155:PRO:O	2:AM:186:SER:HB3	2.09	0.53
2:AN:167:ASN:ND2	2:AN:178:GLY:HA2	2.22	0.53
3:BA:307:ILE:HD13	3:BA:310:MET:CE	2.39	0.53
3:BG:268:VAL:HB	3:BH:286:ARG:HH12	1.73	0.53
3:BI:123:ASP:OD1	3:BI:126:SER:N	2.40	0.53
3:BK:180:GLU:HG3	3:BK:180:GLU:O	2.07	0.53
3:BN:170:ILE:HG12	3:BN:237:LEU:HD23	1.91	0.53
3:BO:78:THR:HG22	3:BO:78:THR:O	2.09	0.53
3:BO:170:ILE:HG12	3:BO:237:LEU:HD23	1.91	0.53
3:BP:313:ARG:CG	3:BP:316:SER:HB3	2.36	0.53
4:BX:10:LEU:CD2	4:BX:552:PHE:HD2	2.22	0.53
4:BX:33:VAL:CG2	4:BY:36:ASN:HD22	2.22	0.53
4:BX:497:GLN:O	4:BX:500:GLU:HB3	2.09	0.53
4:BX:756:ILE:HD12	4:BX:767:ILE:HD13	1.90	0.53
4:BZ:4:LEU:O	4:BZ:6:TYR:N	2.42	0.53
4:BZ:366:VAL:O	4:BZ:366:VAL:CG1	2.57	0.53
1:AA:203:GLU:O	1:AA:207:ILE:HG13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:863:VAL:HG12	1:AA:864:GLU:H	1.73	0.53
1:AB:805:ASP:C	1:AB:807:ASN:N	2.62	0.53
2:AC:215:ARG:HG3	2:AC:371:ILE:O	2.09	0.53
2:AC:306:ALA:HB2	3:BH:282:GLU:OE2	2.09	0.53
2:AD:23:LEU:HD22	2:AD:25:SER:OG	2.09	0.53
2:AE:203:ALA:O	2:AE:205:ILE:HG13	2.09	0.53
2:AE:215:ARG:HG3	2:AE:371:ILE:O	2.09	0.53
2:AI:21:GLY:O	2:AI:22:THR:O	2.27	0.53
2:AI:27:VAL:O	2:AI:30:LEU:N	2.42	0.53
2:AJ:255:ARG:NE	3:BN:67:TYR:OH	2.24	0.53
2:AK:306:ALA:CB	3:BL:282:GLU:OE2	2.57	0.53
2:AL:21:GLY:O	2:AL:22:THR:O	2.27	0.53
2:AN:123:LYS:HG3	2:AN:124:PHE:CD1	2.44	0.53
3:BF:197:PRO:HA	3:BF:235:HIS:CD2	2.44	0.53
3:BI:248:ASN:C	3:BI:248:ASN:OD1	2.47	0.53
3:BI:267:ASP:CG	3:BI:286:ARG:HD2	2.29	0.53
3:BJ:143:LYS:HG3	3:BJ:289:TRP:HZ3	1.74	0.53
3:BK:259:ALA:HB1	3:BK:285:MET:CE	2.38	0.53
3:BL:78:THR:O	3:BL:78:THR:CG2	2.56	0.53
3:BL:144:TYR:HB3	3:BL:264:GLY:HA3	1.91	0.53
3:BL:289:TRP:C	3:BN:150:LEU:HD22	2.21	0.53
3:BM:197:PRO:HA	3:BM:235:HIS:CD2	2.44	0.53
3:BM:234:ASN:O	3:BM:235:HIS:CD2	2.60	0.53
3:BM:237:LEU:HD21	3:BM:246:ILE:CD1	2.36	0.53
3:BM:272:THR:CG2	3:BM:277:THR:CG2	2.82	0.53
3:BN:174:TYR:CG	3:BN:198:LEU:CD1	2.89	0.53
3:BO:81:LEU:HD13	3:BO:307:ILE:HD11	1.91	0.53
3:BO:144:TYR:HD1	3:BO:265:GLY:HA3	1.72	0.53
4:BX:262:TRP:HB2	4:BX:473:LEU:CG	2.38	0.53
4:BX:616:SER:HA	4:BX:619:LEU:HD12	1.89	0.53
4:BY:537:THR:HG21	4:BY:541:ALA:CB	2.39	0.53
4:BY:582:ARG:NH1	4:BY:582:ARG:HB2	2.23	0.53
4:BY:726:THR:HG21	4:BY:766:ARG:HD3	1.90	0.53
4:BZ:267:TYR:HB3	4:BZ:361:ALA:CB	2.38	0.53
4:BZ:443:ARG:O	4:BZ:443:ARG:HD3	2.08	0.53
4:BZ:760:ASN:N	4:BZ:761:PRO:CD	2.72	0.53
1:AA:345:GLN:HG3	1:AA:349:MET:HE2	1.91	0.53
1:AB:698:LYS:O	1:AB:699:ILE:CB	2.56	0.53
2:AC:356:PRO:CB	4:BY:735:GLY:HA3	2.39	0.53
2:AD:145:ARG:O	2:AD:146:GLN:HG3	2.09	0.53
2:AG:23:LEU:HD22	2:AG:25:SER:OG	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:24:TYR:HB2	2:AG:70:LEU:O	2.09	0.53
2:AI:167:ASN:ND2	2:AI:178:GLY:HA2	2.23	0.53
2:AL:295:MET:HE2	3:BQ:67:TYR:CD1	2.44	0.53
2:AO:53:ASN:ND2	2:AO:354:ALA:HB3	2.24	0.53
2:AO:144:ARG:C	2:AO:145:ARG:HG2	2.29	0.53
3:BA:158:LEU:CD1	3:BA:224:LEU:CD1	2.83	0.53
3:BF:294:GLN:NE2	3:BH:228:ASP:O	2.41	0.53
3:BH:197:PRO:HA	3:BH:235:HIS:CD2	2.44	0.53
3:BJ:174:TYR:CG	3:BJ:198:LEU:CD1	2.91	0.53
3:BL:104:GLN:HB2	3:BN:205:ILE:CD1	2.31	0.53
3:BL:191:CYS:HG	3:BL:244:CYS:CB	2.21	0.53
3:BN:174:TYR:HE2	3:BN:236:LYS:HB2	1.56	0.53
3:BP:128:SER:HA	3:BP:155:LEU:CD1	2.39	0.53
3:BP:234:ASN:O	3:BP:235:HIS:CD2	2.60	0.53
3:BQ:258:VAL:CG2	3:BQ:259:ALA:H	2.22	0.53
4:BX:15:THR:O	4:BX:16:VAL:C	2.47	0.53
4:BX:416:THR:HG22	4:BX:417:ASP:N	2.24	0.53
4:BX:659:ILE:HG23	4:BX:660:VAL:N	2.24	0.53
4:BZ:543:SER:O	4:BZ:547:SER:N	2.42	0.53
1:AA:508:GLU:O	1:AA:512:GLN:NE2	2.36	0.52
1:AA:741:THR:HG23	1:AA:743:ASP:H	1.73	0.52
1:AB:326:TYR:CD1	1:AB:384:ALA:CB	2.92	0.52
1:AB:419:PHE:CB	1:AB:424:LEU:HD11	2.40	0.52
1:AB:845:ASN:CG	1:AB:848:PHE:CZ	2.83	0.52
2:AC:203:ALA:O	2:AC:205:ILE:HG13	2.10	0.52
2:AG:21:GLY:H	2:AG:73:LEU:HB2	1.73	0.52
2:AH:203:ALA:O	2:AH:205:ILE:HG13	2.09	0.52
2:AH:215:ARG:HG3	2:AH:371:ILE:O	2.09	0.52
2:AJ:130:ASP:CG	2:AK:17:LYS:HE3	2.29	0.52
2:AM:23:LEU:HD22	2:AM:25:SER:OG	2.08	0.52
2:AM:145:ARG:O	2:AM:146:GLN:HG3	2.09	0.52
2:AN:158:PHE:HE2	2:AN:214:LEU:HD22	1.73	0.52
2:AO:12:LYS:C	2:AO:14:ALA:N	2.60	0.52
3:BH:158:LEU:CD1	3:BH:224:LEU:CD1	2.83	0.52
3:BI:262:GLN:NE2	3:BI:267:ASP:HB2	2.22	0.52
3:BK:261:ILE:CD1	3:BK:287:ILE:HD12	2.37	0.52
3:BL:70:SER:C	3:BL:71:THR:OG1	2.43	0.52
3:BL:170:ILE:HG12	3:BL:237:LEU:HD23	1.91	0.52
3:BL:266:SER:O	3:BL:267:ASP:HB2	2.10	0.52
3:BN:81:LEU:HD13	3:BN:307:ILE:HD11	1.91	0.52
3:BN:197:PRO:HA	3:BN:235:HIS:CD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:322:PHE:O	3:BN:323:TYR:HB2	2.09	0.52
3:BQ:275:PRO:CD	3:BQ:276:THR:H	2.22	0.52
4:BZ:674:ARG:HA	4:BZ:682:PHE:O	2.10	0.52
1:AA:121:LYS:HG2	1:AA:121:LYS:O	2.08	0.52
1:AA:126:PHE:HE1	1:AA:248:ILE:HD12	1.73	0.52
1:AA:540:LEU:HA	1:AA:543:LEU:HB2	1.90	0.52
1:AB:223:ARG:O	1:AB:226:ALA:HB3	2.10	0.52
1:AB:825:VAL:HG12	1:AB:826:TYR:H	1.73	0.52
2:AC:255:ARG:HH21	3:BH:67:TYR:HE1	1.55	0.52
2:AI:158:PHE:HE2	2:AI:214:LEU:HD22	1.73	0.52
2:AM:70:LEU:HD11	2:AM:77:TYR:CD1	2.44	0.52
2:AN:203:ALA:O	2:AN:205:ILE:HG13	2.09	0.52
2:AO:203:ALA:O	2:AO:205:ILE:HG13	2.09	0.52
3:BA:159:ILE:CG2	3:BA:258:VAL:HB	2.40	0.52
3:BG:65:THR:CG2	3:BG:65:THR:O	2.54	0.52
3:BG:144:TYR:HD2	3:BG:144:TYR:O	1.91	0.52
3:BG:170:ILE:HG12	3:BG:237:LEU:HD23	1.91	0.52
3:BG:259:ALA:HB1	3:BG:285:MET:CE	2.38	0.52
3:BJ:59:ILE:HD13	3:BL:53:TYR:HE2	1.69	0.52
3:BL:81:LEU:HD13	3:BL:307:ILE:HD11	1.91	0.52
3:BL:197:PRO:HA	3:BL:235:HIS:CD2	2.44	0.52
3:BN:76:PHE:HZ	3:BN:304:ASN:OD1	1.89	0.52
3:BO:82:CYS:HG	3:BO:135:CYS:CB	2.18	0.52
4:BX:479:ASP:O	4:BX:481:GLN:N	2.42	0.52
4:BX:745:LEU:C	4:BX:747:SER:H	2.11	0.52
4:BY:759:ASP:O	4:BY:760:ASN:CB	2.58	0.52
4:BZ:411:LEU:CD2	4:BZ:424:LEU:HD23	2.38	0.52
4:BZ:743:ASN:O	4:BZ:745:LEU:N	2.43	0.52
1:AA:253:ASN:HA	1:AA:256:PHE:HD1	1.74	0.52
1:AA:299:ILE:HG22	1:AA:300:ARG:N	2.24	0.52
1:AA:503:VAL:HG11	1:AA:506:LEU:HB2	1.90	0.52
1:AB:124:ARG:HD2	1:AB:203:GLU:OE1	2.09	0.52
1:AB:390:ARG:HG3	1:AB:391:THR:N	2.24	0.52
1:AB:419:PHE:CG	1:AB:424:LEU:HD21	2.44	0.52
1:AB:466:PHE:O	1:AB:467:GLN:C	2.45	0.52
1:AB:497:ILE:CG1	2:AI:24:TYR:OH	2.56	0.52
1:AB:505:GLN:HA	2:AJ:71:LEU:HD22	1.90	0.52
1:AB:709:ASP:HB3	1:AB:820:THR:HG23	1.90	0.52
2:AF:21:GLY:O	2:AF:22:THR:O	2.27	0.52
2:AH:167:ASN:ND2	2:AH:178:GLY:HA2	2.22	0.52
2:AI:129:PHE:C	2:AI:129:PHE:CD1	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:215:ARG:HG3	2:AI:371:ILE:O	2.09	0.52
2:AI:381:ASN:O	2:AI:385:VAL:HB	2.10	0.52
2:AJ:215:ARG:HG3	2:AJ:371:ILE:O	2.09	0.52
2:AL:129:PHE:C	2:AL:129:PHE:CD1	2.83	0.52
2:AM:73:LEU:HD23	2:AM:73:LEU:N	2.24	0.52
2:AN:310:ASN:HB3	3:BO:180:GLU:OE1	2.09	0.52
3:BA:258:VAL:CG2	3:BA:259:ALA:H	2.22	0.52
3:BG:258:VAL:CG2	3:BG:259:ALA:H	2.23	0.52
3:BH:159:ILE:CG2	3:BH:258:VAL:HB	2.40	0.52
3:BI:175:TYR:O	3:BI:234:ASN:HA	2.09	0.52
3:BI:197:PRO:HA	3:BI:235:HIS:CD2	2.44	0.52
3:BI:252:LEU:HG	3:BI:253:GLY:N	2.24	0.52
3:BK:81:LEU:HD13	3:BK:307:ILE:HD11	1.91	0.52
3:BK:197:PRO:HA	3:BK:235:HIS:CD2	2.44	0.52
3:BL:125:ALA:C	3:BL:223:LYS:HZ2	2.13	0.52
3:BL:158:LEU:CD1	3:BL:224:LEU:CD1	2.83	0.52
3:BN:132:GLN:HG3	3:BN:132:GLN:O	2.08	0.52
3:BO:137:TYR:CE2	3:BO:311:SER:O	2.62	0.52
3:BO:158:LEU:CD1	3:BO:224:LEU:CD1	2.83	0.52
3:BP:96:ASN:CG	4:BX:39:PRO:HB3	2.29	0.52
4:BY:51:GLY:CA	4:BY:421:LEU:CD2	2.87	0.52
4:BY:287:LEU:HD22	4:BY:289:TYR:CE1	2.44	0.52
4:BY:505:PHE:CE2	4:BY:644:LYS:HG3	2.45	0.52
4:BZ:620:ARG:O	4:BZ:623:GLU:N	2.42	0.52
4:BZ:641:LEU:O	4:BZ:643:THR:N	2.42	0.52
1:AA:555:GLU:OE1	1:AA:871:PHE:CD2	2.63	0.52
2:AF:158:PHE:HE2	2:AF:214:LEU:HD22	1.73	0.52
2:AG:130:ASP:CG	2:AH:17:LYS:HE3	2.29	0.52
2:AG:145:ARG:O	2:AG:146:GLN:HG3	2.09	0.52
2:AG:239:ASN:ND2	3:BJ:65:THR:HA	2.24	0.52
2:AI:6:SER:OG	2:AI:128:ASN:HA	2.10	0.52
2:AK:123:LYS:HG3	2:AK:124:PHE:CD1	2.45	0.52
2:AK:268:GLN:C	4:BX:700:GLU:OE1	2.45	0.52
2:AM:203:ALA:O	2:AM:205:ILE:HG13	2.10	0.52
3:BA:197:PRO:HA	3:BA:235:HIS:CD2	2.44	0.52
3:BG:313:ARG:HG2	3:BO:322:PHE:HD1	1.65	0.52
3:BI:159:ILE:CG2	3:BI:258:VAL:HB	2.40	0.52
3:BI:275:PRO:CD	3:BI:276:THR:H	2.23	0.52
3:BK:170:ILE:HG12	3:BK:237:LEU:HD23	1.91	0.52
3:BK:265:GLY:O	3:BK:266:SER:HB3	2.08	0.52
3:BL:76:PHE:HZ	3:BL:304:ASN:OD1	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:159:ILE:C	3:BL:258:VAL:HG21	2.30	0.52
3:BM:128:SER:HG	3:BM:224:LEU:HD13	1.73	0.52
3:BM:159:ILE:CG2	3:BM:258:VAL:HB	2.40	0.52
3:BM:275:PRO:CD	3:BM:276:THR:H	2.22	0.52
3:BN:324:TYR:HD2	3:BN:326:ILE:HG22	0.59	0.52
3:BO:159:ILE:CG2	3:BO:258:VAL:HB	2.40	0.52
3:BP:205:ILE:CD1	3:BQ:104:GLN:HB2	2.31	0.52
4:BX:66:ASP:HB2	4:BX:286:GLY:HA3	1.90	0.52
4:BX:259:THR:OG1	4:BY:263:LYS:CG	2.58	0.52
4:BX:287:LEU:HD22	4:BX:289:TYR:CE1	2.44	0.52
4:BX:719:SER:O	4:BX:720:ALA:C	2.48	0.52
4:BY:540:ALA:CA	4:BY:544:MET:HG3	2.40	0.52
4:BY:743:ASN:O	4:BY:745:LEU:N	2.43	0.52
4:BY:756:ILE:HD12	4:BY:767:ILE:HD13	1.92	0.52
4:BZ:607:SER:OG	4:BZ:608:ILE:N	2.42	0.52
4:BZ:734:TYR:OH	4:BZ:762:ILE:HG13	2.09	0.52
1:AA:181:LEU:O	1:AA:182:LEU:HB2	2.09	0.52
1:AA:462:GLN:HG3	1:AA:463:ILE:HG22	1.90	0.52
1:AB:419:PHE:O	1:AB:420:ILE:C	2.47	0.52
1:AB:613:ASN:O	1:AB:617:ARG:HG2	2.10	0.52
2:AL:295:MET:CE	3:BQ:67:TYR:CD1	2.93	0.52
2:AM:241:ALA:HB1	3:BQ:59:ILE:HG22	1.75	0.52
3:BG:234:ASN:O	3:BG:235:HIS:CD2	2.60	0.52
3:BK:159:ILE:CG2	3:BK:258:VAL:HB	2.40	0.52
3:BM:144:TYR:N	3:BM:263:VAL:O	2.37	0.52
3:BM:150:LEU:HD21	3:BN:290:LYS:CG	2.40	0.52
3:BM:174:TYR:HE1	3:BM:234:ASN:HB2	1.70	0.52
4:BX:502:ARG:O	4:BX:504:GLU:N	2.42	0.52
4:BX:674:ARG:HA	4:BX:682:PHE:O	2.09	0.52
4:BX:743:ASN:C	4:BX:745:LEU:H	2.13	0.52
4:BX:748:ASP:OD1	4:BX:750:ARG:N	2.43	0.52
4:BY:544:MET:O	4:BY:548:VAL:HG23	2.10	0.52
4:BY:691:PHE:N	4:BY:691:PHE:CD1	2.78	0.52
4:BZ:1:MET:HG3	4:BZ:521:ALA:C	2.30	0.52
4:BZ:27:SER:O	4:BZ:28:THR:O	2.27	0.52
4:BZ:522:LEU:CD1	4:BZ:749:PRO:HB3	2.39	0.52
1:AA:236:ARG:O	1:AA:237:ASN:HB3	2.09	0.52
1:AB:127:GLU:OE1	1:AB:151:LYS:HG2	2.10	0.52
1:AB:224:PHE:HE2	1:AB:839:MET:HG3	1.74	0.52
1:AB:431:ILE:HG23	1:AB:435:ILE:HD12	1.92	0.52
1:AB:482:GLN:O	1:AB:483:VAL:HG23	2.06	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:563:MET:HA	1:AB:563:MET:HE3	1.92	0.52
1:AB:823:THR:CG2	1:AB:824:LYS:N	2.72	0.52
2:AC:9:LYS:O	2:AC:13:ASP:HB2	2.10	0.52
2:AE:123:LYS:HG3	2:AE:124:PHE:CD1	2.44	0.52
2:AF:27:VAL:O	2:AF:30:LEU:N	2.42	0.52
2:AH:255:ARG:CZ	3:BI:65:THR:HG1	2.21	0.52
2:AJ:155:PRO:O	2:AJ:186:SER:HB3	2.09	0.52
3:BF:81:LEU:HD13	3:BF:307:ILE:HD11	1.91	0.52
3:BF:144:TYR:HD1	3:BF:265:GLY:HA3	1.73	0.52
3:BF:262:GLN:HG3	3:BF:267:ASP:OD2	2.10	0.52
3:BI:81:LEU:HD13	3:BI:307:ILE:HD11	1.91	0.52
3:BJ:170:ILE:HG12	3:BJ:237:LEU:HD23	1.91	0.52
3:BJ:258:VAL:CG2	3:BJ:259:ALA:H	2.22	0.52
3:BK:87:THR:HG1	3:BK:122:THR:HG22	1.74	0.52
3:BL:205:ILE:HG23	3:BM:104:GLN:OE1	2.10	0.52
3:BM:75:THR:HG23	3:BM:79:SER:OG	2.09	0.52
3:BO:275:PRO:CD	3:BO:276:THR:H	2.23	0.52
3:BP:81:LEU:HD13	3:BP:307:ILE:HD11	1.91	0.52
4:BX:574:SER:O	4:BX:575:ILE:HG23	2.09	0.52
4:BX:627:GLN:O	4:BX:628:THR:OG1	2.26	0.52
4:BX:674:ARG:HG2	4:BX:720:ALA:HB2	1.91	0.52
4:BY:15:THR:O	4:BY:16:VAL:C	2.47	0.52
1:AA:492:VAL:CG1	1:AA:558:MET:SD	2.97	0.52
1:AA:554:TYR:CZ	1:AA:558:MET:CE	2.92	0.52
1:AA:777:LYS:O	1:AA:777:LYS:HG2	2.10	0.52
1:AB:272:ASN:C	1:AB:274:ILE:N	2.63	0.52
2:AC:381:ASN:O	2:AC:385:VAL:HB	2.10	0.52
2:AF:6:SER:OG	2:AF:128:ASN:HA	2.10	0.52
2:AF:129:PHE:C	2:AF:129:PHE:CD1	2.83	0.52
2:AG:34:PHE:CD2	2:AG:66:LEU:CD1	2.92	0.52
2:AH:381:ASN:O	2:AH:385:VAL:HB	2.10	0.52
2:AK:169:SER:OG	3:BP:51:GLN:O	2.21	0.52
2:AM:9:LYS:O	2:AM:13:ASP:HB2	2.08	0.52
2:AM:158:PHE:HE2	2:AM:214:LEU:HD22	1.74	0.52
2:AN:215:ARG:HG3	2:AN:371:ILE:O	2.09	0.52
2:AO:41:MET:O	2:AO:42:ASN:C	2.48	0.52
3:BA:63:MET:HG2	3:BA:63:MET:O	2.09	0.52
3:BA:285:MET:HG3	3:BA:286:ARG:H	1.75	0.52
3:BG:275:PRO:CD	3:BG:276:THR:H	2.22	0.52
3:BI:166:ASN:O	3:BI:247:ARG:HB2	2.10	0.52
3:BI:170:ILE:HG12	3:BI:237:LEU:HD23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:315:ARG:O	3:BJ:325:ARG:N	2.42	0.52
3:BL:172:LEU:CB	3:BL:173:TYR:CD1	2.89	0.52
3:BM:76:PHE:HE2	3:BM:111:TRP:HE1	1.56	0.52
3:BM:78:THR:O	3:BM:78:THR:CG2	2.57	0.52
3:BM:123:ASP:OD1	3:BM:126:SER:N	2.40	0.52
3:BO:128:SER:OG	3:BO:224:LEU:HB2	2.10	0.52
3:BP:170:ILE:HG12	3:BP:237:LEU:HD23	1.91	0.52
3:BP:275:PRO:CD	3:BP:276:THR:H	2.23	0.52
4:BY:1:MET:H1	4:BY:1:MET:HE1	1.73	0.52
4:BY:4:LEU:O	4:BY:5:ILE:C	2.47	0.52
4:BY:719:SER:O	4:BY:720:ALA:C	2.47	0.52
4:BZ:371:LEU:HD23	4:BZ:371:LEU:C	2.30	0.52
4:BZ:607:SER:O	4:BZ:608:ILE:C	2.47	0.52
1:AA:646:LEU:CD2	1:AA:665:LEU:HD21	2.39	0.52
1:AA:771:VAL:HG12	1:AA:809:PHE:HB3	1.92	0.52
1:AB:271:PHE:O	1:AB:274:ILE:HB	2.10	0.52
1:AB:484:VAL:O	1:AB:491:GLN:HA	2.10	0.52
1:AB:516:GLN:HE21	1:AB:533:ILE:HD13	1.75	0.52
1:AB:577:GLN:C	1:AB:579:THR:H	2.12	0.52
1:AB:587:LEU:O	1:AB:587:LEU:CG	2.58	0.52
1:AB:822:THR:HG22	1:AB:822:THR:O	2.08	0.52
2:AD:158:PHE:HE2	2:AD:214:LEU:HD22	1.74	0.52
2:AF:97:MET:O	2:AF:101:VAL:HG13	2.10	0.52
2:AF:203:ALA:O	2:AF:205:ILE:HG13	2.10	0.52
2:AF:215:ARG:HG3	2:AF:371:ILE:O	2.09	0.52
2:AH:4:LEU:O	2:AH:5:TYR:C	2.48	0.52
2:AI:97:MET:O	2:AI:101:VAL:HG13	2.10	0.52
2:AJ:123:LYS:HG3	2:AJ:124:PHE:CD1	2.45	0.52
3:BA:123:ASP:OD1	3:BA:126:SER:N	2.40	0.52
3:BF:154:GLU:OE2	3:BG:290:LYS:HE2	2.10	0.52
3:BH:170:ILE:HG12	3:BH:237:LEU:HD23	1.91	0.52
3:BK:271:ILE:C	3:BK:272:THR:O	2.43	0.52
3:BM:228:ASP:O	3:BN:294:GLN:NE2	2.41	0.52
3:BN:57:LEU:HG	3:BN:58:PRO:N	2.24	0.52
3:BN:275:PRO:CD	3:BN:276:THR:H	2.22	0.52
3:BO:133:LEU:HD12	3:BO:255:ARG:HH21	1.74	0.52
3:BO:318:ASN:O	3:BO:320:ALA:N	2.41	0.52
3:BQ:63:MET:CG	3:BQ:65:THR:HG22	2.30	0.52
3:BQ:159:ILE:CG2	3:BQ:258:VAL:HB	2.40	0.52
3:BQ:307:ILE:HD13	3:BQ:310:MET:CE	2.39	0.52
4:BX:497:GLN:O	4:BX:501:LEU:HG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:253:ASP:O	4:BY:254:ILE:CG1	2.53	0.52
4:BY:540:ALA:C	4:BY:542:LYS:N	2.63	0.52
4:BY:540:ALA:CB	4:BY:544:MET:HE3	2.40	0.52
4:BY:541:ALA:HA	4:BY:544:MET:HB2	1.92	0.52
4:BY:680:GLU:HB3	4:BY:682:PHE:HE1	1.75	0.52
4:BY:717:VAL:CG1	4:BY:718:ILE:N	2.73	0.52
4:BY:748:ASP:OD1	4:BY:750:ARG:N	2.42	0.52
1:AA:275:PRO:HG2	1:AA:278:ILE:HD11	1.92	0.52
1:AA:339:LEU:O	1:AA:340:VAL:C	2.47	0.52
1:AA:384:ALA:O	1:AA:385:ALA:C	2.48	0.52
1:AA:447:TYR:HH	1:AA:458:ILE:HG23	1.74	0.52
1:AA:546:LEU:HD13	1:AA:584:LEU:HD23	1.90	0.52
1:AA:669:LEU:HA	1:AA:672:LEU:HD12	1.90	0.52
1:AB:124:ARG:C	1:AB:125:ILE:HG13	2.29	0.52
1:AB:246:HIS:ND1	1:AB:247:PRO:HD2	2.25	0.52
1:AB:293:PRO:C	1:AB:295:THR:N	2.63	0.52
1:AB:498:ARG:O	1:AB:502:VAL:HB	2.10	0.52
1:AB:711:GLN:HE21	1:AB:818:VAL:HG11	1.75	0.52
2:AC:129:PHE:C	2:AC:129:PHE:CD1	2.83	0.52
2:AC:357:VAL:H	4:BY:734:TYR:C	2.13	0.52
2:AD:123:LYS:HG3	2:AD:124:PHE:CD1	2.45	0.52
2:AD:150:PHE:N	2:AD:150:PHE:CD1	2.78	0.52
2:AG:171:PRO:CG	3:BJ:314:SER:CB	2.77	0.52
2:AH:164:PHE:H	3:BK:61:GLY:CA	2.23	0.52
2:AI:363:PRO:HG2	4:BX:734:TYR:CE2	2.45	0.52
2:AJ:128:ASN:ND2	2:AK:19:VAL:HG21	2.25	0.52
2:AJ:167:ASN:ND2	2:AJ:178:GLY:HA2	2.23	0.52
2:AO:22:THR:CG2	2:AO:73:LEU:HD12	2.40	0.52
2:AO:124:PHE:O	2:AO:127:ILE:HG13	2.09	0.52
3:BA:81:LEU:HD13	3:BA:307:ILE:HD11	1.91	0.52
3:BG:112:PRO:HG2	3:BG:115:SER:HB2	1.92	0.52
3:BG:174:TYR:OH	3:BG:202:THR:OG1	2.21	0.52
3:BL:263:VAL:CG1	3:BL:289:TRP:HB2	2.40	0.52
3:BM:156:ALA:HB1	3:BM:269:LEU:HD21	1.90	0.52
3:BM:174:TYR:HD1	3:BM:198:LEU:HD12	1.62	0.52
3:BN:251:LYS:O	3:BN:252:LEU:CB	2.37	0.52
3:BO:214:THR:CG2	4:BY:480:TYR:HE1	2.14	0.52
3:BQ:174:TYR:HD1	3:BQ:234:ASN:HB3	1.70	0.52
3:BQ:255:ARG:CD	3:BQ:257:ASN:ND2	2.72	0.52
4:BX:251:ASN:OD1	4:BY:269:ARG:CZ	2.58	0.52
4:BX:533:GLY:C	4:BX:535:LYS:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:263:LYS:CB	4:BY:477:ASN:CG	2.78	0.52
4:BY:624:MET:C	4:BY:626:THR:H	2.14	0.52
4:BY:659:ILE:HG23	4:BY:660:VAL:N	2.25	0.52
4:BY:706:GLN:C	4:BY:708:PHE:N	2.62	0.52
4:BZ:2:ALA:HA	4:BZ:5:ILE:HG23	1.92	0.52
4:BZ:575:ILE:HG23	4:BZ:576:SER:N	2.25	0.52
4:BZ:745:LEU:C	4:BZ:747:SER:N	2.63	0.52
1:AA:654:ILE:CG1	1:AA:655:SER:N	2.47	0.52
1:AA:869:VAL:HG13	1:AA:873:ASN:HA	1.92	0.52
1:AB:96:PRO:O	1:AB:652:PHE:HB3	2.10	0.52
1:AB:117:LYS:O	1:AB:118:LYS:C	2.48	0.52
1:AB:122:LEU:HD12	1:AB:124:ARG:HH21	1.75	0.52
1:AB:122:LEU:HD11	1:AB:200:VAL:HG12	1.92	0.52
1:AB:548:ARG:HH11	1:AB:878:ASN:N	2.05	0.52
2:AJ:171:PRO:CB	3:BM:312:LYS:HZ2	2.23	0.52
2:AL:381:ASN:O	2:AL:385:VAL:HB	2.10	0.52
2:AO:54:LEU:HD12	2:AO:55:PRO:HD2	1.92	0.52
2:AO:381:ASN:O	2:AO:385:VAL:HB	2.10	0.52
3:BF:307:ILE:HA	3:BF:310:MET:HE3	1.90	0.52
3:BG:317:LEU:CD2	3:BO:325:ARG:O	2.57	0.52
3:BH:81:LEU:HD13	3:BH:307:ILE:HD11	1.91	0.52
3:BI:268:VAL:HG13	3:BI:269:LEU:H	1.72	0.52
3:BJ:159:ILE:CG2	3:BJ:258:VAL:HB	2.40	0.52
3:BJ:261:ILE:CG1	3:BJ:285:MET:CG	2.75	0.52
3:BJ:313:ARG:HB3	3:BJ:316:SER:HB3	1.92	0.52
3:BM:174:TYR:CG	3:BM:198:LEU:CD1	2.89	0.52
3:BQ:170:ILE:HG12	3:BQ:237:LEU:HD23	1.91	0.52
4:BY:541:ALA:CA	4:BY:544:MET:HB2	2.40	0.52
4:BZ:754:GLU:O	4:BZ:755:PHE:C	2.49	0.52
1:AB:95:ILE:HG22	1:AB:97:THR:OG1	2.09	0.51
1:AB:653:ASP:O	1:AB:653:ASP:CG	2.47	0.51
2:AC:4:LEU:O	2:AC:5:TYR:C	2.49	0.51
2:AC:167:ASN:ND2	2:AC:178:GLY:HA2	2.23	0.51
2:AD:203:ALA:O	2:AD:205:ILE:HG13	2.10	0.51
2:AE:381:ASN:O	2:AE:385:VAL:HB	2.10	0.51
2:AG:41:MET:O	2:AG:42:ASN:C	2.48	0.51
2:AH:76:ASN:CB	2:AJ:76:ASN:CB	2.69	0.51
2:AI:106:ARG:H	2:AI:106:ARG:CD	2.12	0.51
2:AK:151:THR:C	2:AK:152:PHE:CD1	2.84	0.51
2:AM:123:LYS:HG3	2:AM:124:PHE:CD1	2.45	0.51
2:AM:215:ARG:HG3	2:AM:371:ILE:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:258:VAL:CG2	3:BH:259:ALA:H	2.22	0.51
3:BI:150:LEU:HD22	3:BJ:290:LYS:CA	2.40	0.51
3:BI:174:TYR:HD1	3:BI:198:LEU:HD12	1.63	0.51
3:BI:208:LEU:O	3:BI:210:THR:N	2.44	0.51
3:BI:267:ASP:H	3:BI:286:ARG:NH1	2.08	0.51
3:BJ:150:LEU:CD2	3:BK:290:LYS:CG	2.85	0.51
3:BL:128:SER:HA	3:BL:155:LEU:HD13	1.88	0.51
3:BL:159:ILE:HB	3:BL:258:VAL:CG2	2.38	0.51
3:BN:163:TRP:CZ3	3:BN:251:LYS:HB2	2.45	0.51
3:BP:208:LEU:O	3:BP:210:THR:N	2.44	0.51
3:BQ:81:LEU:HD13	3:BQ:307:ILE:HD11	1.91	0.51
3:BQ:174:TYR:CG	3:BQ:198:LEU:CD1	2.90	0.51
4:BX:537:THR:HB	4:BX:540:ALA:HB3	1.92	0.51
4:BZ:540:ALA:O	4:BZ:542:LYS:N	2.44	0.51
1:AA:113:PRO:CD	1:AA:609:ASN:HB3	2.40	0.51
1:AA:145:ARG:HB3	1:AA:147:TYR:CE1	2.41	0.51
1:AA:340:VAL:HB	1:AA:587:LEU:CD2	2.40	0.51
1:AA:450:GLY:O	1:AA:451:ASP:HB2	2.10	0.51
1:AA:527:ARG:CZ	1:AA:527:ARG:HB2	2.39	0.51
1:AA:647:LYS:O	1:AA:649:LEU:N	2.44	0.51
1:AB:527:ARG:HH11	1:AB:527:ARG:HG3	1.75	0.51
1:AB:630:ARG:C	1:AB:632:ASN:H	2.13	0.51
2:AD:171:PRO:HG3	3:BH:312:LYS:NZ	2.25	0.51
2:AE:109:ILE:HB	2:AE:380:ASP:HB3	1.93	0.51
2:AG:171:PRO:CD	3:BJ:314:SER:OG	2.56	0.51
2:AH:123:LYS:HG3	2:AH:124:PHE:CD1	2.44	0.51
2:AI:4:LEU:O	2:AI:5:TYR:C	2.49	0.51
2:AI:168:ARG:HA	3:BJ:52:ASN:N	2.26	0.51
2:AK:215:ARG:HG3	2:AK:371:ILE:O	2.09	0.51
2:AL:203:ALA:O	2:AL:205:ILE:HG13	2.10	0.51
3:BA:174:TYR:HD1	3:BA:234:ASN:HB3	1.75	0.51
3:BA:208:LEU:O	3:BA:210:THR:N	2.44	0.51
3:BF:315:ARG:HG2	3:BF:317:LEU:HB2	1.92	0.51
3:BH:144:TYR:HD1	3:BH:265:GLY:HA3	1.75	0.51
3:BI:121:TYR:CB	3:BI:127:PHE:HB2	2.38	0.51
3:BI:234:ASN:O	3:BI:235:HIS:CD2	2.60	0.51
3:BI:290:LYS:CA	3:BK:150:LEU:HD22	2.40	0.51
3:BJ:144:TYR:HD1	3:BJ:265:GLY:HA3	1.74	0.51
3:BL:252:LEU:C	3:BL:253:GLY:O	2.48	0.51
3:BM:258:VAL:CG2	3:BM:259:ALA:H	2.22	0.51
3:BN:84:TYR:HH	3:BN:134:TYR:HD1	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BO:162:GLU:CB	3:BO:253:GLY:O	2.50	0.51
3:BO:285:MET:CE	3:BO:285:MET:CA	2.88	0.51
3:BO:290:LYS:HB3	3:BQ:150:LEU:CD2	2.39	0.51
3:BP:257:ASN:HD21	3:BP:313:ARG:NH2	2.03	0.51
4:BX:66:ASP:HB3	4:BX:285:GLY:O	2.10	0.51
4:BX:581:ILE:HG21	4:BX:594:VAL:HA	1.92	0.51
4:BX:583:SER:CB	4:BX:593:ASP:HB3	2.23	0.51
4:BY:697:THR:O	4:BY:698:PHE:HB2	2.10	0.51
4:BY:704:ASP:OD2	4:BY:707:LYS:CG	2.58	0.51
4:BZ:1:MET:HG3	4:BZ:522:LEU:N	2.24	0.51
4:BZ:589:SER:O	4:BZ:590:ALA:C	2.49	0.51
1:AA:364:THR:O	1:AA:364:THR:HG22	2.10	0.51
1:AA:834:ASP:O	1:AA:838:SER:HB2	2.09	0.51
1:AB:322:THR:HG22	1:AB:390:ARG:HD3	1.93	0.51
1:AB:550:LEU:O	1:AB:551:ALA:C	2.48	0.51
1:AB:774:LEU:HD21	1:AB:821:SER:HA	1.93	0.51
2:AJ:150:PHE:CD1	2:AJ:150:PHE:N	2.78	0.51
2:AK:4:LEU:O	2:AK:5:TYR:C	2.48	0.51
2:AK:145:ARG:CD	2:AL:143:ASN:C	2.79	0.51
2:AK:203:ALA:O	2:AK:205:ILE:HG13	2.09	0.51
2:AL:9:LYS:O	2:AL:13:ASP:HB2	2.10	0.51
2:AM:150:PHE:CD1	2:AM:150:PHE:N	2.78	0.51
2:AM:360:VAL:O	2:AM:378:ARG:HD3	2.11	0.51
2:AN:76:ASN:HB2	2:AO:76:ASN:HB2	1.92	0.51
3:BA:76:PHE:CZ	3:BA:109:LYS:O	2.64	0.51
3:BA:275:PRO:CD	3:BA:276:THR:H	2.23	0.51
3:BG:159:ILE:CG2	3:BG:258:VAL:HB	2.40	0.51
3:BI:70:SER:O	3:BI:71:THR:CB	2.58	0.51
3:BM:81:LEU:HD13	3:BM:307:ILE:HD11	1.91	0.51
3:BN:165:CYS:HA	3:BN:249:CYS:HA	1.91	0.51
3:BN:175:TYR:HE1	3:BN:237:LEU:CB	2.20	0.51
3:BP:125:ALA:C	3:BP:223:LYS:HZ2	2.13	0.51
4:BX:7:ARG:CD	4:BX:625:ALA:HA	2.39	0.51
4:BX:581:ILE:O	4:BX:582:ARG:CB	2.58	0.51
4:BX:708:PHE:O	4:BX:709:ALA:C	2.48	0.51
4:BY:272:THR:OG1	4:BY:305:TYR:CD2	2.62	0.51
4:BY:274:ARG:HD2	4:BY:303:TYR:CD1	2.45	0.51
4:BY:618:ARG:HH11	4:BY:618:ARG:CG	2.22	0.51
4:BY:630:GLY:O	4:BY:632:ASN:ND2	2.44	0.51
4:BZ:15:THR:O	4:BZ:16:VAL:C	2.48	0.51
1:AA:127:GLU:HB3	1:AA:151:LYS:HE3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:141:GLU:O	1:AA:142:LEU:HB2	2.09	0.51
1:AA:298:TYR:O	1:AA:299:ILE:HB	2.11	0.51
1:AA:392:MET:O	1:AA:420:ILE:HG23	2.08	0.51
1:AA:548:ARG:HH11	1:AA:877:MET:H	1.56	0.51
1:AB:94:THR:HG23	1:AB:658:PRO:HG2	1.91	0.51
1:AB:135:ARG:O	1:AB:138:GLY:N	2.38	0.51
1:AB:170:TYR:CE1	1:AB:682:PHE:HB2	2.46	0.51
1:AB:286:LEU:O	1:AB:287:ASN:ND2	2.44	0.51
1:AB:812:VAL:HG13	1:AB:813:ALA:H	1.75	0.51
2:AC:6:SER:OG	2:AC:128:ASN:HA	2.10	0.51
2:AG:128:ASN:ND2	2:AH:19:VAL:HG21	2.25	0.51
2:AH:9:LYS:O	2:AH:13:ASP:HB2	2.11	0.51
2:AJ:145:ARG:O	2:AJ:146:GLN:HG3	2.09	0.51
2:AK:381:ASN:O	2:AK:385:VAL:HB	2.10	0.51
2:AL:6:SER:OG	2:AL:128:ASN:HA	2.10	0.51
2:AL:97:MET:O	2:AL:101:VAL:HG13	2.10	0.51
2:AL:164:PHE:H	3:BP:61:GLY:HA3	1.76	0.51
3:BA:85:TYR:CE2	3:BA:118:PHE:HB3	2.46	0.51
3:BG:76:PHE:CZ	3:BG:109:LYS:O	2.64	0.51
3:BG:208:LEU:O	3:BG:210:THR:N	2.44	0.51
3:BJ:275:PRO:CD	3:BJ:276:THR:H	2.23	0.51
3:BK:158:LEU:CD1	3:BK:224:LEU:CD1	2.83	0.51
3:BL:208:LEU:O	3:BL:210:THR:N	2.44	0.51
3:BM:208:LEU:O	3:BM:210:THR:N	2.43	0.51
3:BP:96:ASN:HB2	4:BX:39:PRO:HG2	1.91	0.51
3:BQ:261:ILE:CG1	3:BQ:285:MET:CG	2.76	0.51
4:BX:268:ASN:O	4:BX:269:ARG:HG2	2.10	0.51
4:BX:365:MET:HG2	4:BX:365:MET:O	2.11	0.51
4:BX:540:ALA:O	4:BX:544:MET:CB	2.41	0.51
4:BX:649:THR:CB	4:BX:650:GLN:NE2	2.58	0.51
4:BX:700:GLU:O	4:BX:701:ILE:HB	2.09	0.51
4:BY:51:GLY:HA2	4:BY:421:LEU:HD21	1.92	0.51
4:BY:359:SER:CB	4:BY:362:PHE:CE1	2.85	0.51
4:BY:419:VAL:HG12	4:BY:420:SER:H	1.70	0.51
4:BY:715:SER:OG	4:BZ:750:ARG:NE	2.43	0.51
4:BY:743:ASN:C	4:BY:745:LEU:H	2.13	0.51
1:AA:183:LEU:CD1	1:AA:844:SER:OG	2.56	0.51
1:AA:204:THR:O	1:AA:244:ILE:HD12	2.11	0.51
1:AA:250:HIS:ND1	1:AA:840:HIS:CB	2.73	0.51
1:AA:368:THR:O	1:AA:368:THR:HG22	2.11	0.51
1:AA:408:MET:HB3	1:AA:471:TRP:CZ2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:465:ASN:HB3	1:AA:468:VAL:HB	1.92	0.51
1:AA:467:GLN:HB2	1:AA:515:ARG:HD2	1.91	0.51
1:AA:473:HIS:HE1	2:AG:24:TYR:CD2	2.18	0.51
1:AA:494:ASN:CG	1:AA:495:ASP:N	2.63	0.51
1:AB:603:TYR:O	1:AB:606:VAL:CG2	2.56	0.51
2:AE:151:THR:C	2:AE:152:PHE:CD1	2.84	0.51
2:AF:9:LYS:O	2:AF:13:ASP:HB2	2.10	0.51
2:AG:152:PHE:N	2:AG:152:PHE:CD1	2.78	0.51
2:AG:360:VAL:O	2:AG:378:ARG:HD3	2.11	0.51
2:AH:109:ILE:HB	2:AH:380:ASP:HB3	1.93	0.51
2:AJ:12:LYS:C	2:AJ:14:ALA:N	2.60	0.51
2:AJ:203:ALA:O	2:AJ:205:ILE:HG13	2.10	0.51
2:AJ:360:VAL:O	2:AJ:378:ARG:HD3	2.11	0.51
2:AK:310:ASN:CB	3:BN:180:GLU:CD	2.79	0.51
2:AM:381:ASN:O	2:AM:385:VAL:HB	2.10	0.51
2:AN:151:THR:C	2:AN:152:PHE:CD1	2.84	0.51
3:BF:162:GLU:HG3	3:BF:315:ARG:HD3	1.93	0.51
3:BJ:143:LYS:HG3	3:BJ:289:TRP:CZ3	2.45	0.51
3:BK:66:ALA:HB1	4:BZ:599:THR:OG1	2.11	0.51
3:BK:123:ASP:OD1	3:BK:126:SER:N	2.40	0.51
3:BL:174:TYR:HE1	3:BL:234:ASN:HB2	1.72	0.51
3:BN:57:LEU:CG	3:BN:58:PRO:CD	2.83	0.51
3:BO:75:THR:CG2	3:BO:79:SER:OG	2.57	0.51
3:BO:205:ILE:CD1	3:BP:104:GLN:HB2	2.30	0.51
3:BP:96:ASN:CB	4:BX:39:PRO:HB3	2.40	0.51
3:BQ:174:TYR:CD1	3:BQ:198:LEU:HD13	2.36	0.51
4:BX:66:ASP:OD1	4:BX:66:ASP:N	2.43	0.51
4:BX:262:TRP:CZ3	4:BX:473:LEU:O	2.63	0.51
4:BX:589:SER:O	4:BX:590:ALA:C	2.48	0.51
4:BY:143:VAL:CG1	4:BY:152:TYR:HB3	2.41	0.51
4:BY:582:ARG:HB3	4:BY:596:THR:HG22	1.92	0.51
4:BY:692:ALA:O	4:BY:699:ASP:O	2.29	0.51
4:BZ:743:ASN:C	4:BZ:745:LEU:H	2.12	0.51
1:AA:122:LEU:CD1	1:AA:201:ASP:CB	2.88	0.51
1:AA:122:LEU:CD1	1:AA:201:ASP:HB2	2.40	0.51
1:AA:306:ASP:HB2	1:AA:614:TYR:OH	2.11	0.51
1:AA:371:ASN:HA	1:AA:374:ALA:CB	2.31	0.51
1:AA:474:PHE:HD1	2:AG:69:THR:CG2	2.20	0.51
1:AB:322:THR:HG21	1:AB:390:ARG:HA	1.93	0.51
2:AC:97:MET:O	2:AC:101:VAL:HG13	2.10	0.51
2:AF:131:ASN:HD22	2:AF:131:ASN:N	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:12:LYS:O	2:AI:14:ALA:N	2.44	0.51
2:AK:109:ILE:HB	2:AK:380:ASP:HB3	1.93	0.51
2:AK:203:ALA:HA	4:BX:775:ARG:NH2	2.15	0.51
2:AN:163:SER:CB	3:BO:62:SER:HA	2.41	0.51
3:BJ:315:ARG:O	3:BJ:325:ARG:HA	2.09	0.51
3:BM:158:LEU:CD1	3:BM:224:LEU:CD1	2.83	0.51
3:BP:159:ILE:CG2	3:BP:258:VAL:HB	2.40	0.51
3:BP:259:ALA:HB1	3:BP:285:MET:HE3	1.92	0.51
3:BQ:87:THR:HG1	3:BQ:122:THR:HG22	1.74	0.51
4:BX:693:TYR:N	4:BX:693:TYR:HD1	2.08	0.51
4:BY:589:SER:O	4:BY:590:ALA:C	2.48	0.51
4:BY:620:ARG:O	4:BY:622:LYS:N	2.43	0.51
4:BY:708:PHE:O	4:BY:709:ALA:C	2.47	0.51
1:AA:401:TYR:HA	1:AA:404:LEU:HD13	1.93	0.51
1:AA:863:VAL:HG12	1:AA:864:GLU:N	2.25	0.51
1:AB:422:GLU:O	1:AB:425:VAL:HB	2.10	0.51
1:AB:457:GLN:HB2	1:AB:476:ASN:HD22	1.60	0.51
1:AB:506:LEU:HD21	1:AB:543:LEU:C	2.31	0.51
1:AB:676:ILE:O	1:AB:680:ASP:HB2	2.11	0.51
1:AB:731:GLN:HE22	1:AB:757:VAL:HG22	1.75	0.51
2:AD:128:ASN:ND2	2:AE:19:VAL:HG21	2.25	0.51
2:AD:152:PHE:N	2:AD:152:PHE:CD1	2.78	0.51
2:AD:381:ASN:O	2:AD:385:VAL:HB	2.10	0.51
2:AF:381:ASN:O	2:AF:385:VAL:HB	2.10	0.51
2:AI:131:ASN:HD22	2:AI:131:ASN:N	2.09	0.51
2:AJ:4:LEU:O	2:AJ:5:TYR:C	2.49	0.51
2:AJ:41:MET:O	2:AJ:42:ASN:C	2.48	0.51
2:AK:8:SER:C	2:AK:10:THR:N	2.64	0.51
3:BG:271:ILE:HD11	3:BG:279:PRO:HG2	0.58	0.51
3:BH:208:LEU:O	3:BH:210:THR:N	2.44	0.51
3:BH:252:LEU:HG	3:BH:253:GLY:H	1.74	0.51
3:BJ:76:PHE:CZ	3:BJ:109:LYS:O	2.64	0.51
3:BJ:158:LEU:CD1	3:BJ:224:LEU:CD1	2.83	0.51
3:BJ:172:LEU:HB2	3:BJ:173:TYR:CE1	2.45	0.51
3:BK:258:VAL:CG2	3:BK:259:ALA:H	2.22	0.51
3:BN:85:TYR:CE1	3:BN:120:GLU:HG2	2.46	0.51
3:BN:208:LEU:O	3:BN:210:THR:N	2.44	0.51
3:BO:208:LEU:O	3:BO:210:THR:N	2.44	0.51
3:BP:85:TYR:CE1	3:BP:120:GLU:HG2	2.46	0.51
3:BP:174:TYR:CG	3:BP:198:LEU:CD1	2.91	0.51
3:BP:256:GLU:CB	3:BP:311:SER:O	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BP:258:VAL:CG2	3:BP:259:ALA:H	2.22	0.51
4:BX:710:ASP:C	4:BX:712:VAL:N	2.64	0.51
4:BY:488:VAL:CB	4:BZ:448:TYR:CD1	2.94	0.51
4:BZ:13:SER:O	4:BZ:16:VAL:N	2.43	0.51
4:BZ:555:SER:OG	4:BZ:556:GLY:N	2.43	0.51
4:BZ:686:THR:HG22	4:BZ:687:ASP:N	2.26	0.51
1:AA:332:VAL:HG11	1:AA:557:LEU:HD21	1.93	0.51
1:AA:535:LEU:O	1:AA:539:ARG:CG	2.59	0.51
1:AA:769:SER:O	1:AA:771:VAL:N	2.43	0.51
1:AB:170:TYR:CE1	1:AB:681:ILE:CG2	2.94	0.51
1:AB:699:ILE:HD13	1:AB:699:ILE:N	2.25	0.51
1:AB:745:ALA:CB	1:AB:748:THR:HB	2.29	0.51
2:AC:360:VAL:O	2:AC:378:ARG:HD3	2.11	0.51
2:AD:171:PRO:CB	3:BH:312:LYS:HZ2	2.24	0.51
2:AF:246:THR:CG2	3:BI:67:TYR:HE2	2.23	0.51
2:AI:9:LYS:O	2:AI:13:ASP:HB2	2.10	0.51
2:AI:203:ALA:O	2:AI:205:ILE:HG13	2.10	0.51
2:AL:12:LYS:O	2:AL:14:ALA:N	2.44	0.51
2:AM:4:LEU:O	2:AM:5:TYR:C	2.49	0.51
2:AM:128:ASN:ND2	2:AN:19:VAL:HG21	2.25	0.51
2:AN:8:SER:C	2:AN:10:THR:N	2.64	0.51
2:AO:123:LYS:HG3	2:AO:124:PHE:CD1	2.45	0.51
3:BA:85:TYR:CE1	3:BA:120:GLU:HG2	2.46	0.51
3:BF:85:TYR:CE1	3:BF:120:GLU:HG2	2.46	0.51
3:BG:78:THR:O	3:BG:78:THR:HG22	2.10	0.51
3:BK:128:SER:HB2	3:BK:224:LEU:HD22	1.93	0.51
3:BK:208:LEU:O	3:BK:210:THR:N	2.44	0.51
3:BL:159:ILE:CB	3:BL:258:VAL:HG21	2.39	0.51
3:BM:133:LEU:HD12	3:BM:255:ARG:HH21	1.75	0.51
3:BN:76:PHE:CZ	3:BN:109:LYS:O	2.64	0.51
3:BN:158:LEU:CD1	3:BN:224:LEU:CD1	2.83	0.51
3:BN:310:MET:O	3:BN:311:SER:CB	2.59	0.51
3:BO:123:ASP:OD1	3:BO:126:SER:N	2.40	0.51
3:BO:258:VAL:CG2	3:BO:259:ALA:H	2.22	0.51
4:BX:350:TYR:CZ	4:BX:427:ARG:HD2	2.35	0.51
4:BX:442:THR:CG2	4:BX:443:ARG:N	2.74	0.51
4:BX:632:ASN:HD22	4:BX:632:ASN:N	2.08	0.51
4:BY:42:GLN:CG	4:BZ:329:ASN:O	2.59	0.51
4:BZ:508:LEU:HD11	4:BZ:647:ARG:HG2	1.93	0.51
4:BZ:759:ASP:O	4:BZ:760:ASN:CB	2.58	0.51
1:AA:108:LEU:HD21	1:AA:324:SER:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:127:GLU:OE2	1:AA:151:LYS:HG2	2.11	0.51
1:AA:415:PRO:HB3	1:AA:479:GLN:HA	1.93	0.51
1:AA:428:GLN:NE2	1:AA:455:PRO:HD2	2.25	0.51
1:AA:725:ARG:HB3	1:AA:828:GLN:OE1	2.11	0.51
1:AB:502:VAL:HG12	1:AB:504:ASN:ND2	2.26	0.51
1:AB:506:LEU:HD23	1:AB:544:VAL:CA	2.39	0.51
1:AB:845:ASN:CG	1:AB:848:PHE:HZ	2.14	0.51
2:AC:354:ALA:HB1	4:BY:731:ASN:OD1	2.10	0.51
2:AD:41:MET:O	2:AD:42:ASN:C	2.48	0.51
2:AE:9:LYS:O	2:AE:13:ASP:HB2	2.11	0.51
2:AI:106:ARG:HD3	2:AI:106:ARG:N	2.14	0.51
2:AK:360:VAL:O	2:AK:378:ARG:HD3	2.11	0.51
2:AM:41:MET:O	2:AM:42:ASN:C	2.48	0.51
3:BA:117:TYR:CD1	3:BQ:167:PRO:HG2	2.46	0.51
3:BF:263:VAL:CG1	3:BF:289:TRP:HB2	2.40	0.51
3:BH:76:PHE:CZ	3:BH:109:LYS:O	2.64	0.51
3:BH:275:PRO:CD	3:BH:276:THR:H	2.22	0.51
3:BI:150:LEU:O	3:BI:154:GLU:HG2	2.11	0.51
3:BI:255:ARG:NE	3:BI:257:ASN:HD22	2.09	0.51
3:BJ:263:VAL:HG11	3:BJ:289:TRP:HE3	1.76	0.51
3:BK:129:VAL:C	3:BK:131:PRO:CD	2.75	0.51
3:BK:275:PRO:CD	3:BK:276:THR:H	2.23	0.51
3:BL:150:LEU:O	3:BL:154:GLU:HG2	2.11	0.51
3:BL:275:PRO:CD	3:BL:276:THR:H	2.22	0.51
3:BM:205:ILE:CD1	3:BN:104:GLN:HB2	2.31	0.51
4:BX:33:VAL:O	4:BX:33:VAL:CG2	2.55	0.51
4:BX:581:ILE:HG23	4:BX:597:GLN:CB	2.41	0.51
4:BX:634:ASP:O	4:BX:637:SER:N	2.44	0.51
4:BX:637:SER:O	4:BX:640:VAL:N	2.44	0.51
4:BY:2:ALA:HA	4:BY:5:ILE:HG23	1.91	0.51
4:BY:692:ALA:HB3	4:BY:701:ILE:HG23	1.92	0.51
4:BZ:680:GLU:HB3	4:BZ:682:PHE:HE1	1.75	0.51
1:AA:178:PRO:CG	1:AA:256:PHE:CE2	2.84	0.51
1:AA:350:SER:OG	1:AA:355:LEU:HD12	2.11	0.51
1:AB:122:LEU:HD21	1:AB:200:VAL:CG1	2.40	0.51
1:AB:392:MET:HA	1:AB:573:THR:HG23	1.93	0.51
1:AB:460:GLU:C	1:AB:462:GLN:N	2.62	0.51
2:AD:70:LEU:CD1	2:AD:71:LEU:N	2.72	0.51
2:AD:310:ASN:HB3	3:BH:180:GLU:OE2	2.10	0.51
2:AF:12:LYS:O	2:AF:14:ALA:N	2.44	0.51
2:AF:360:VAL:O	2:AF:378:ARG:HD3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:381:ASN:O	2:AG:385:VAL:HB	2.10	0.51
2:AH:8:SER:C	2:AH:10:THR:N	2.64	0.51
2:AI:360:VAL:O	2:AI:378:ARG:HD3	2.11	0.51
2:AJ:152:PHE:N	2:AJ:152:PHE:CD1	2.78	0.51
2:AK:9:LYS:O	2:AK:13:ASP:HB2	2.10	0.51
3:BH:128:SER:HB2	3:BH:224:LEU:HD22	1.93	0.51
3:BI:76:PHE:CZ	3:BI:109:LYS:O	2.64	0.51
3:BI:132:GLN:O	3:BI:133:LEU:C	2.50	0.51
3:BI:258:VAL:CG2	3:BI:259:ALA:H	2.22	0.51
3:BI:307:ILE:HA	3:BI:310:MET:HE3	1.93	0.51
3:BL:170:ILE:CD1	3:BL:237:LEU:HD23	2.41	0.51
3:BM:150:LEU:O	3:BM:154:GLU:HG2	2.11	0.51
3:BN:53:TYR:O	3:BN:53:TYR:CD1	2.64	0.51
4:BY:254:ILE:CG2	4:BY:255:VAL:N	2.74	0.51
4:BY:644:LYS:C	4:BY:646:ASP:N	2.65	0.51
1:AA:157:ASP:OD1	1:AA:157:ASP:O	2.29	0.50
1:AB:282:VAL:HG13	1:AB:283:ASN:N	2.20	0.50
1:AB:322:THR:O	1:AB:323:THR:C	2.49	0.50
1:AB:596:SER:O	1:AB:597:PRO:C	2.49	0.50
1:AB:874:MET:O	1:AB:875:ARG:CB	2.52	0.50
2:AE:12:LYS:O	2:AE:14:ALA:N	2.44	0.50
2:AG:123:LYS:HG3	2:AG:124:PHE:CD1	2.45	0.50
2:AH:255:ARG:NH1	3:BI:65:THR:OG1	2.43	0.50
2:AN:109:ILE:HB	2:AN:380:ASP:HB3	1.93	0.50
3:BA:174:TYR:CD1	3:BA:234:ASN:HB3	2.46	0.50
3:BF:205:ILE:CD1	3:BG:104:GLN:HB2	2.30	0.50
3:BG:69:ASN:HB3	4:BY:507:ALA:CA	2.37	0.50
3:BJ:52:ASN:CG	3:BL:59:ILE:HD12	2.31	0.50
3:BJ:85:TYR:CE1	3:BJ:120:GLU:HG2	2.46	0.50
3:BK:76:PHE:CZ	3:BK:109:LYS:O	2.64	0.50
3:BN:150:LEU:O	3:BN:154:GLU:HG2	2.11	0.50
3:BQ:85:TYR:CE1	3:BQ:120:GLU:HG2	2.46	0.50
3:BQ:208:LEU:O	3:BQ:210:THR:N	2.43	0.50
4:BX:4:LEU:O	4:BX:5:ILE:C	2.50	0.50
4:BX:680:GLU:HB3	4:BX:682:PHE:HE1	1.77	0.50
4:BY:555:SER:O	4:BY:559:ASN:ND2	2.43	0.50
4:BY:618:ARG:HA	4:BY:622:LYS:CD	2.36	0.50
4:BY:694:ARG:C	4:BY:696:GLU:H	2.14	0.50
4:BY:759:ASP:O	4:BY:760:ASN:ND2	2.45	0.50
4:BZ:618:ARG:HH11	4:BZ:618:ARG:CG	2.24	0.50
4:BZ:674:ARG:HG2	4:BZ:720:ALA:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:706:GLN:C	4:BZ:708:PHE:N	2.61	0.50
1:AA:322:THR:O	1:AA:323:THR:C	2.50	0.50
1:AA:353:LEU:CD1	1:AA:362:SER:HB2	2.35	0.50
1:AA:512:GLN:O	1:AA:516:GLN:NE2	2.44	0.50
1:AA:779:ASP:HA	1:AA:798:ILE:HD12	1.90	0.50
1:AB:305:GLN:NE2	1:AB:564:ASN:CG	2.65	0.50
1:AB:375:ALA:HB1	1:AB:584:LEU:HD12	1.92	0.50
1:AB:454:THR:HG22	1:AB:455:PRO:CD	2.38	0.50
1:AB:527:ARG:CZ	1:AB:527:ARG:HB2	2.41	0.50
1:AB:722:ASN:HB2	1:AB:824:LYS:HB3	1.93	0.50
2:AD:8:SER:C	2:AD:10:THR:N	2.65	0.50
2:AE:253:ILE:HD13	2:AE:319:THR:HB	1.93	0.50
2:AG:4:LEU:O	2:AG:5:TYR:C	2.49	0.50
2:AG:74:ASP:OD1	2:AG:77:TYR:HB2	2.12	0.50
2:AJ:381:ASN:O	2:AJ:385:VAL:HB	2.10	0.50
2:AK:253:ILE:HD13	2:AK:319:THR:HB	1.93	0.50
2:AL:220:THR:O	2:AL:220:THR:CG2	2.39	0.50
2:AM:8:SER:C	2:AM:10:THR:N	2.65	0.50
3:BF:76:PHE:CZ	3:BF:109:LYS:O	2.64	0.50
3:BF:275:PRO:CD	3:BF:276:THR:H	2.22	0.50
3:BH:289:TRP:HZ3	3:BH:292:TRP:NE1	2.09	0.50
3:BJ:307:ILE:HD13	3:BJ:310:MET:CE	2.39	0.50
3:BL:76:PHE:CZ	3:BL:109:LYS:O	2.64	0.50
3:BL:85:TYR:CE1	3:BL:120:GLU:HG2	2.46	0.50
3:BM:85:TYR:CE1	3:BM:120:GLU:HG2	2.46	0.50
3:BO:228:ASP:O	3:BP:294:GLN:NE2	2.41	0.50
3:BO:263:VAL:CG1	3:BO:289:TRP:HB2	2.40	0.50
3:BP:76:PHE:CZ	3:BP:109:LYS:O	2.64	0.50
3:BQ:123:ASP:OD1	3:BQ:126:SER:N	2.40	0.50
3:BQ:150:LEU:O	3:BQ:154:GLU:HG2	2.11	0.50
4:BX:7:ARG:HD2	4:BX:625:ALA:C	2.32	0.50
4:BX:24:GLU:C	4:BX:26:GLY:H	2.14	0.50
4:BX:143:VAL:CG1	4:BX:152:TYR:HB3	2.40	0.50
4:BX:367:TYR:CZ	4:BY:473:LEU:HD12	2.45	0.50
4:BX:522:LEU:CD1	4:BX:749:PRO:HB3	2.39	0.50
4:BX:598:ILE:HG12	4:BX:600:ASP:OD2	2.11	0.50
4:BX:644:LYS:O	4:BX:646:ASP:N	2.44	0.50
4:BX:668:ILE:CG2	4:BX:671:ARG:HD3	2.41	0.50
4:BY:2:ALA:CB	4:BY:638:ALA:CB	2.89	0.50
4:BY:5:ILE:HB	4:BY:525:LEU:O	2.11	0.50
4:BY:693:TYR:C	4:BY:694:ARG:NH1	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:672:ALA:C	4:BZ:673:TYR:CD1	2.84	0.50
4:BZ:686:THR:O	4:BZ:688:GLY:N	2.45	0.50
1:AA:178:PRO:HD2	1:AA:256:PHE:HE2	1.76	0.50
1:AA:428:GLN:OE1	1:AA:456:PHE:HD1	1.94	0.50
1:AA:548:ARG:HH11	1:AA:877:MET:CA	2.24	0.50
1:AA:602:HIS:O	1:AA:606:VAL:HG22	2.10	0.50
1:AB:89:GLU:C	1:AB:91:LEU:N	2.64	0.50
1:AB:393:SER:N	1:AB:573:THR:CG2	2.74	0.50
1:AB:503:VAL:O	1:AB:504:ASN:C	2.49	0.50
1:AB:583:SER:O	1:AB:587:LEU:HB3	2.11	0.50
1:AB:638:MET:CE	1:AB:666:ARG:HH12	2.23	0.50
1:AB:750:MET:CE	1:AB:750:MET:CA	2.88	0.50
2:AC:54:LEU:HD12	2:AC:55:PRO:CD	2.42	0.50
2:AE:148:THR:OG1	2:AE:332:GLU:HG2	2.12	0.50
2:AE:150:PHE:N	2:AE:150:PHE:CD1	2.80	0.50
2:AG:148:THR:OG1	2:AG:332:GLU:HG2	2.12	0.50
2:AG:203:ALA:O	2:AG:205:ILE:HG13	2.10	0.50
2:AH:151:THR:C	2:AH:152:PHE:CD1	2.84	0.50
2:AL:131:ASN:HD22	2:AL:131:ASN:N	2.09	0.50
2:AN:381:ASN:O	2:AN:385:VAL:HB	2.10	0.50
3:BG:275:PRO:HD2	3:BG:276:THR:H	1.77	0.50
3:BI:170:ILE:CD1	3:BI:239:VAL:HB	2.42	0.50
3:BK:150:LEU:O	3:BK:154:GLU:HG2	2.11	0.50
3:BK:168:MET:HE2	3:BK:175:TYR:CE1	2.43	0.50
3:BL:307:ILE:HA	3:BL:310:MET:CE	2.42	0.50
3:BM:275:PRO:HD2	3:BM:276:THR:H	1.77	0.50
3:BP:158:LEU:CD1	3:BP:224:LEU:CD1	2.83	0.50
3:BP:228:ASP:O	3:BQ:294:GLN:NE2	2.41	0.50
4:BX:672:ALA:CB	4:BX:685:GLY:HA2	2.41	0.50
4:BX:750:ARG:HH21	4:BZ:716:PRO:CD	2.25	0.50
4:BY:641:LEU:C	4:BY:643:THR:N	2.64	0.50
4:BZ:409:VAL:CG1	4:BZ:426:PHE:HD2	2.07	0.50
1:AA:192:ASN:O	1:AA:193:SER:CB	2.55	0.50
1:AA:464:GLN:O	1:AA:465:ASN:HB2	2.10	0.50
1:AA:817:TRP:O	1:AA:818:VAL:HB	2.11	0.50
1:AB:140:LYS:C	1:AB:142:LEU:H	2.13	0.50
2:AD:4:LEU:O	2:AD:5:TYR:C	2.49	0.50
2:AH:76:ASN:OD1	2:AJ:74:ASP:HB2	2.12	0.50
2:AJ:253:ILE:HD13	2:AJ:319:THR:HB	1.93	0.50
2:AM:148:THR:OG1	2:AM:332:GLU:HG2	2.11	0.50
2:AM:152:PHE:N	2:AM:152:PHE:CD1	2.78	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AN:12:LYS:O	2:AN:14:ALA:N	2.45	0.50
2:AO:106:ARG:HD3	2:AO:106:ARG:N	2.21	0.50
3:BF:133:LEU:HD12	3:BF:255:ARG:HH21	1.76	0.50
3:BF:149:GLN:NE2	3:BF:269:LEU:HD22	2.24	0.50
3:BG:85:TYR:CE1	3:BG:120:GLU:HG2	2.46	0.50
3:BG:322:PHE:CZ	3:BO:325:ARG:CD	2.94	0.50
3:BJ:150:LEU:O	3:BJ:154:GLU:HG2	2.11	0.50
3:BL:170:ILE:HG23	3:BL:237:LEU:O	2.09	0.50
3:BL:259:ALA:HB1	3:BL:285:MET:HE3	1.92	0.50
3:BN:170:ILE:CD1	3:BN:239:VAL:HB	2.42	0.50
3:BO:55:ILE:CG2	3:BO:321:ALA:HB3	2.40	0.50
3:BO:104:GLN:HB2	3:BQ:205:ILE:CD1	2.31	0.50
3:BQ:63:MET:HG3	3:BQ:65:THR:HG23	1.87	0.50
4:BX:419:VAL:CG1	4:BX:420:SER:H	2.17	0.50
4:BX:541:ALA:HA	4:BX:544:MET:CB	2.40	0.50
4:BX:591:TRP:HA	4:BX:618:ARG:HD3	1.92	0.50
4:BY:46:ALA:H	4:BY:47:PRO:CD	2.23	0.50
4:BY:358:ASP:OD1	4:BY:363:ARG:NH1	2.45	0.50
4:BY:633:PHE:HD2	4:BY:668:ILE:HD13	1.77	0.50
4:BY:674:ARG:HA	4:BY:682:PHE:O	2.11	0.50
4:BZ:443:ARG:O	4:BZ:443:ARG:HG3	2.11	0.50
4:BZ:603:SER:O	4:BZ:604:SER:HB2	2.12	0.50
4:BZ:710:ASP:C	4:BZ:712:VAL:N	2.64	0.50
4:BZ:717:VAL:CG1	4:BZ:718:ILE:H	2.20	0.50
1:AA:130:GLN:NE2	1:AA:146:TRP:CZ2	2.79	0.50
1:AA:539:ARG:NE	1:AA:586:MET:O	2.45	0.50
1:AA:666:ARG:HA	1:AA:669:LEU:HD12	1.94	0.50
1:AB:535:LEU:O	1:AB:539:ARG:HG2	2.11	0.50
1:AB:543:LEU:HD23	1:AB:546:LEU:HD12	1.93	0.50
1:AB:654:ILE:C	1:AB:657:VAL:HG23	2.32	0.50
1:AB:717:MET:CE	1:AB:830:PRO:HD2	2.41	0.50
2:AD:253:ILE:HD13	2:AD:319:THR:HB	1.93	0.50
2:AK:169:SER:O	3:BP:52:ASN:CB	2.51	0.50
2:AK:310:ASN:HB2	3:BN:180:GLU:CD	2.32	0.50
2:AL:253:ILE:HD13	2:AL:319:THR:HB	1.93	0.50
2:AO:125:LYS:C	2:AO:127:ILE:H	2.15	0.50
3:BF:123:ASP:OD1	3:BF:126:SER:N	2.40	0.50
3:BF:170:ILE:CD1	3:BF:239:VAL:HB	2.42	0.50
3:BG:162:GLU:HB3	3:BG:253:GLY:C	2.32	0.50
3:BJ:149:GLN:CG	3:BJ:150:LEU:N	2.75	0.50
3:BK:170:ILE:CD1	3:BK:239:VAL:HB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:150:LEU:HD21	3:BM:290:LYS:CB	2.41	0.50
3:BL:261:ILE:CG1	3:BL:285:MET:CG	2.76	0.50
3:BM:76:PHE:CZ	3:BM:109:LYS:O	2.64	0.50
3:BN:252:LEU:CG	3:BN:253:GLY:H	2.24	0.50
3:BN:275:PRO:HD2	3:BN:276:THR:H	1.77	0.50
3:BO:268:VAL:HG21	3:BP:266:SER:CA	2.42	0.50
3:BP:78:THR:O	3:BP:78:THR:CG2	2.60	0.50
4:BX:47:PRO:CB	4:BX:420:SER:OG	2.59	0.50
4:BX:478:ASP:O	4:BX:481:GLN:HG2	2.11	0.50
4:BX:534:ILE:O	4:BX:535:LYS:CG	2.59	0.50
4:BY:13:SER:O	4:BY:16:VAL:N	2.44	0.50
4:BY:16:VAL:CG2	4:BY:17:ASP:N	2.75	0.50
4:BY:273:ILE:CG2	4:BY:274:ARG:N	2.74	0.50
4:BY:656:LEU:O	4:BY:660:VAL:HG23	2.12	0.50
4:BZ:597:GLN:O	4:BZ:599:THR:N	2.39	0.50
1:AA:214:ASP:O	1:AA:215:GLU:C	2.49	0.50
1:AA:270:ILE:HG23	1:AA:854:LEU:CD2	2.42	0.50
1:AA:298:TYR:O	1:AA:299:ILE:O	2.30	0.50
1:AA:503:VAL:HG11	1:AA:506:LEU:CB	2.41	0.50
1:AA:718:TYR:C	1:AA:719:GLY:O	2.45	0.50
1:AB:122:LEU:HD11	1:AB:200:VAL:CG1	2.41	0.50
1:AB:548:ARG:O	1:AB:551:ALA:HB3	2.12	0.50
1:AB:596:SER:O	1:AB:599:THR:HB	2.12	0.50
2:AD:171:PRO:CG	3:BH:312:LYS:HD2	2.41	0.50
2:AE:8:SER:C	2:AE:10:THR:N	2.64	0.50
2:AG:164:PHE:O	3:BJ:61:GLY:N	2.45	0.50
2:AI:54:LEU:HD12	2:AI:55:PRO:CD	2.42	0.50
2:AK:12:LYS:O	2:AK:14:ALA:N	2.45	0.50
2:AL:360:VAL:O	2:AL:378:ARG:HD3	2.11	0.50
2:AN:9:LYS:O	2:AN:13:ASP:HB2	2.11	0.50
2:AN:150:PHE:N	2:AN:150:PHE:CD1	2.80	0.50
2:AN:253:ILE:HD13	2:AN:319:THR:HB	1.93	0.50
2:AO:100:MET:HG3	2:AO:388:VAL:CG1	2.41	0.50
3:BI:85:TYR:CE1	3:BI:120:GLU:HG2	2.46	0.50
3:BJ:208:LEU:O	3:BJ:210:THR:N	2.44	0.50
3:BL:123:ASP:OD1	3:BL:126:SER:N	2.40	0.50
3:BM:191:CYS:HG	3:BM:244:CYS:CB	2.23	0.50
3:BM:259:ALA:HB1	3:BM:285:MET:HE3	1.93	0.50
3:BO:55:ILE:CB	3:BO:322:PHE:HB3	2.39	0.50
3:BO:174:TYR:CG	3:BO:198:LEU:CD1	2.91	0.50
3:BP:307:ILE:HD13	3:BP:310:MET:CE	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:581:ILE:HA	4:BX:597:GLN:HG2	1.92	0.50
4:BX:616:SER:O	4:BX:617:ARG:C	2.50	0.50
4:BY:270:ASP:OD2	4:BY:307:ARG:HB2	2.12	0.50
4:BY:549:MET:C	4:BY:551:LYS:N	2.65	0.50
4:BY:754:GLU:O	4:BY:755:PHE:C	2.50	0.50
4:BZ:637:SER:O	4:BZ:640:VAL:N	2.45	0.50
1:AA:265:LEU:HB3	1:AA:296:ALA:HB3	1.92	0.50
1:AA:510:LEU:HD22	1:AA:540:LEU:HD13	1.94	0.50
1:AA:814:ASN:O	1:AA:815:TYR:C	2.50	0.50
1:AA:817:TRP:CZ3	1:AA:819:PRO:HA	2.47	0.50
1:AB:415:PRO:CB	1:AB:480:PHE:HB2	2.41	0.50
2:AC:12:LYS:O	2:AC:14:ALA:N	2.44	0.50
2:AD:360:VAL:O	2:AD:378:ARG:HD3	2.11	0.50
2:AE:4:LEU:O	2:AE:5:TYR:C	2.48	0.50
2:AF:4:LEU:O	2:AF:5:TYR:C	2.49	0.50
2:AF:152:PHE:N	2:AF:152:PHE:CD1	2.80	0.50
2:AG:150:PHE:N	2:AG:150:PHE:CD1	2.78	0.50
2:AH:253:ILE:HD13	2:AH:319:THR:HB	1.93	0.50
2:AI:152:PHE:N	2:AI:152:PHE:CD1	2.80	0.50
3:BA:311:SER:O	3:BA:312:LYS:CB	2.60	0.50
3:BG:150:LEU:O	3:BG:154:GLU:HG2	2.11	0.50
3:BG:272:THR:HG23	3:BG:279:PRO:CD	2.41	0.50
3:BH:85:TYR:CE1	3:BH:120:GLU:HG2	2.46	0.50
3:BH:162:GLU:HB3	3:BH:253:GLY:C	2.32	0.50
3:BI:126:SER:O	3:BI:129:VAL:CG2	2.59	0.50
3:BK:75:THR:CG2	3:BK:79:SER:OG	2.59	0.50
3:BL:294:GLN:NE2	3:BN:228:ASP:O	2.41	0.50
3:BN:174:TYR:HE2	3:BN:236:LYS:CB	2.17	0.50
3:BO:268:VAL:HG23	3:BP:266:SER:OG	2.11	0.50
3:BO:275:PRO:HD2	3:BO:276:THR:H	1.77	0.50
3:BP:150:LEU:HD22	3:BQ:290:LYS:CA	2.41	0.50
3:BP:150:LEU:O	3:BP:154:GLU:HG2	2.12	0.50
4:BX:4:LEU:O	4:BX:6:TYR:N	2.44	0.50
4:BX:353:VAL:O	4:BX:424:LEU:O	2.30	0.50
4:BX:602:SER:O	4:BX:603:SER:HB3	2.11	0.50
4:BX:645:ILE:HG23	4:BX:651:ILE:HD13	1.93	0.50
4:BX:759:ASP:O	4:BX:760:ASN:CB	2.59	0.50
4:BY:717:VAL:CG1	4:BY:718:ILE:H	2.20	0.50
4:BZ:305:TYR:CD1	4:BZ:307:ARG:NE	2.76	0.50
4:BZ:631:MET:HE1	4:BZ:752:LEU:HD23	1.94	0.50
4:BZ:632:ASN:N	4:BZ:632:ASN:HD22	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:698:PHE:CD2	4:BZ:731:ASN:ND2	2.79	0.50
1:AA:289:ASP:O	1:AA:290:ARG:HG2	2.12	0.50
1:AA:333:VAL:HB	1:AA:380:LYS:HG2	1.93	0.50
1:AA:369:GLY:O	1:AA:370:ILE:C	2.49	0.50
1:AA:434:THR:CG2	1:AA:434:THR:O	2.59	0.50
1:AA:434:THR:C	1:AA:438:PRO:HG3	2.32	0.50
1:AA:510:LEU:HD11	1:AA:537:SER:CB	2.42	0.50
1:AA:744:TYR:C	1:AA:746:GLN:N	2.64	0.50
1:AA:763:LEU:HD23	1:AA:764:PRO:CD	2.42	0.50
1:AB:108:LEU:C	1:AB:110:ASP:N	2.65	0.50
1:AB:305:GLN:OE1	1:AB:305:GLN:HA	2.12	0.50
1:AB:419:PHE:HB2	1:AB:424:LEU:HD11	1.94	0.50
1:AB:771:VAL:CG2	1:AB:809:PHE:O	2.59	0.50
2:AC:238:ILE:CG2	3:BG:63:MET:CE	2.87	0.50
2:AD:12:LYS:O	2:AD:14:ALA:N	2.45	0.50
2:AO:12:LYS:O	2:AO:14:ALA:N	2.45	0.50
2:AO:253:ILE:HD13	2:AO:319:THR:HB	1.93	0.50
3:BA:234:ASN:O	3:BA:235:HIS:CD2	2.60	0.50
3:BA:263:VAL:CG1	3:BA:289:TRP:HB2	2.40	0.50
3:BJ:310:MET:CG	3:BJ:311:SER:N	2.51	0.50
3:BK:261:ILE:HD12	3:BK:285:MET:SD	2.52	0.50
3:BM:267:ASP:CB	3:BM:286:ARG:CZ	2.90	0.50
3:BN:208:LEU:C	3:BN:210:THR:N	2.66	0.50
3:BO:150:LEU:O	3:BO:154:GLU:HG2	2.12	0.50
3:BO:268:VAL:HG12	3:BO:269:LEU:CA	2.38	0.50
3:BO:320:ALA:O	3:BO:321:ALA:HB2	2.11	0.50
3:BP:170:ILE:CD1	3:BP:239:VAL:HB	2.42	0.50
4:BX:369:ARG:HG2	4:BX:369:ARG:HH11	1.77	0.50
4:BX:544:MET:C	4:BX:546:THR:N	2.65	0.50
4:BX:745:LEU:C	4:BX:747:SER:N	2.65	0.50
4:BY:357:ASP:OD2	4:BY:362:PHE:CD2	2.65	0.50
4:BY:584:VAL:CG1	4:BY:705:VAL:HB	2.36	0.50
4:BY:644:LYS:O	4:BY:646:ASP:N	2.44	0.50
4:BY:762:ILE:HA	4:BY:765:ASN:HD21	1.75	0.50
4:BZ:634:ASP:O	4:BZ:637:SER:N	2.45	0.50
4:BZ:672:ALA:CB	4:BZ:685:GLY:HA2	2.42	0.50
1:AA:348:LYS:O	1:AA:351:GLN:HB2	2.12	0.50
1:AA:391:THR:O	1:AA:573:THR:HA	2.12	0.50
1:AA:452:PRO:O	1:AA:453:GLN:OE1	2.30	0.50
1:AA:548:ARG:HH11	1:AA:877:MET:HA	1.77	0.50
1:AA:694:ARG:HA	1:AA:701:GLN:NE2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:745:ALA:HA	1:AA:748:THR:HB	1.94	0.50
1:AA:822:THR:O	1:AA:823:THR:OG1	2.21	0.50
1:AB:486:ASP:HA	2:AI:70:LEU:HD21	1.94	0.50
1:AB:510:LEU:HD11	1:AB:537:SER:CA	2.42	0.50
1:AB:699:ILE:HD12	1:AB:763:LEU:O	2.12	0.50
2:AC:152:PHE:N	2:AC:152:PHE:CD1	2.80	0.50
2:AG:12:LYS:O	2:AG:14:ALA:N	2.45	0.50
2:AG:22:THR:HG22	2:AG:73:LEU:CD1	2.42	0.50
2:AH:12:LYS:O	2:AH:14:ALA:N	2.44	0.50
2:AH:360:VAL:O	2:AH:378:ARG:HD3	2.11	0.50
2:AI:76:ASN:HB2	2:AM:76:ASN:HB3	1.93	0.50
2:AM:253:ILE:HD13	2:AM:319:THR:HB	1.93	0.50
2:AN:4:LEU:O	2:AN:5:TYR:C	2.48	0.50
3:BF:228:ASP:O	3:BG:294:GLN:NE2	2.41	0.50
3:BF:268:VAL:O	3:BF:269:LEU:CD2	2.58	0.50
3:BG:208:LEU:C	3:BG:210:THR:N	2.66	0.50
3:BH:150:LEU:O	3:BH:154:GLU:HG2	2.11	0.50
3:BJ:123:ASP:OD1	3:BJ:126:SER:N	2.40	0.50
3:BJ:228:ASP:O	3:BK:294:GLN:NE2	2.41	0.50
3:BJ:268:VAL:CB	3:BK:266:SER:HA	2.42	0.50
3:BL:69:ASN:HD21	4:BX:507:ALA:CA	2.12	0.50
3:BN:161:ASN:C	3:BN:255:ARG:HG2	2.32	0.50
3:BQ:275:PRO:HD2	3:BQ:276:THR:H	1.76	0.50
4:BX:582:ARG:CZ	4:BX:584:VAL:HG23	2.42	0.50
4:BX:582:ARG:O	4:BX:593:ASP:HB2	2.12	0.50
4:BY:580:SER:O	4:BY:597:GLN:CG	2.48	0.50
4:BY:584:VAL:O	4:BY:709:ALA:CB	2.58	0.50
4:BZ:564:LEU:HD22	4:BZ:622:LYS:CG	2.42	0.50
1:AA:390:ARG:HG3	1:AA:391:THR:N	2.27	0.49
1:AA:545:ASP:O	1:AA:546:LEU:C	2.49	0.49
1:AA:546:LEU:HD21	1:AA:588:ILE:HD12	1.91	0.49
1:AA:623:ALA:HA	1:AA:674:VAL:HG22	1.93	0.49
1:AB:305:GLN:CG	1:AB:564:ASN:HD21	2.25	0.49
1:AB:371:ASN:HD22	1:AB:583:SER:CB	2.19	0.49
1:AB:702:GLY:O	1:AB:825:VAL:HG13	2.12	0.49
1:AB:708:ARG:O	1:AB:709:ASP:C	2.49	0.49
2:AL:8:SER:C	2:AL:10:THR:N	2.65	0.49
2:AL:54:LEU:HD12	2:AL:55:PRO:CD	2.42	0.49
2:AN:360:VAL:O	2:AN:378:ARG:HD3	2.11	0.49
3:BF:128:SER:HB2	3:BF:224:LEU:HD22	1.93	0.49
3:BH:208:LEU:C	3:BH:210:THR:N	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:294:GLN:NE2	3:BK:228:ASP:O	2.41	0.49
3:BK:174:TYR:CD1	3:BK:198:LEU:HD13	2.35	0.49
3:BK:174:TYR:HE1	3:BK:234:ASN:HB2	1.72	0.49
3:BM:307:ILE:HD13	3:BM:310:MET:CE	2.39	0.49
3:BN:53:TYR:HA	3:BP:59:ILE:HD11	1.94	0.49
3:BN:234:ASN:O	3:BN:235:HIS:CD2	2.60	0.49
3:BO:125:ALA:HB1	3:BO:223:LYS:HG2	1.90	0.49
3:BO:144:TYR:N	3:BO:263:VAL:O	2.43	0.49
4:BX:22:ILE:O	4:BX:24:GLU:N	2.45	0.49
4:BX:489:THR:O	4:BX:490:VAL:HB	2.12	0.49
4:BX:534:ILE:O	4:BX:535:LYS:HG2	2.12	0.49
4:BX:640:VAL:CG1	4:BX:644:LYS:HZ2	2.24	0.49
4:BY:317:THR:CB	4:BY:354:ASP:O	2.56	0.49
4:BY:496:ARG:HD3	4:BY:496:ARG:N	2.27	0.49
4:BY:672:ALA:C	4:BY:673:TYR:CD1	2.85	0.49
4:BZ:701:ILE:CG1	4:BZ:702:PRO:HD2	2.40	0.49
1:AA:289:ASP:O	1:AA:290:ARG:CD	2.60	0.49
1:AA:545:ASP:HA	1:AA:548:ARG:CD	2.41	0.49
1:AA:757:VAL:CG1	1:AA:758:ALA:N	2.75	0.49
1:AB:602:HIS:O	1:AB:606:VAL:HG22	2.12	0.49
1:AB:875:ARG:CD	1:AB:878:ASN:ND2	2.75	0.49
2:AE:360:VAL:O	2:AE:378:ARG:HD3	2.11	0.49
2:AH:38:ILE:CG2	2:AH:63:PHE:HB2	2.42	0.49
2:AI:8:SER:C	2:AI:10:THR:N	2.65	0.49
2:AI:238:ILE:HG23	3:BL:63:MET:HE3	1.92	0.49
2:AK:150:PHE:N	2:AK:150:PHE:CD1	2.80	0.49
2:AL:14:ALA:C	2:AL:16:ASP:H	2.15	0.49
2:AM:313:PRO:HD3	3:BQ:279:PRO:HB2	1.94	0.49
3:BF:208:LEU:O	3:BF:210:THR:N	2.44	0.49
3:BH:170:ILE:CD1	3:BH:239:VAL:HB	2.42	0.49
3:BL:109:LYS:CE	4:BX:496:ARG:HH22	2.22	0.49
3:BM:150:LEU:HD22	3:BN:290:LYS:CA	2.41	0.49
3:BM:311:SER:O	3:BM:312:LYS:CB	2.60	0.49
3:BO:85:TYR:CE1	3:BO:120:GLU:HG2	2.46	0.49
3:BP:75:THR:CG2	3:BP:79:SER:OG	2.60	0.49
4:BX:371:LEU:HD22	4:BX:468:PHE:CZ	2.47	0.49
4:BX:551:LYS:HD2	4:BX:658:ASP:OD1	2.12	0.49
4:BX:584:VAL:CG1	4:BX:705:VAL:HB	2.35	0.49
4:BY:25:ILE:O	4:BY:26:GLY:C	2.49	0.49
4:BZ:557:LEU:HD21	4:BZ:621:LEU:HD21	1.94	0.49
1:AA:122:LEU:CG	1:AA:201:ASP:HB2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:332:VAL:HG11	1:AA:557:LEU:HD22	1.94	0.49
1:AA:629:ASN:C	1:AA:631:LEU:N	2.62	0.49
1:AB:384:ALA:O	1:AB:385:ALA:C	2.48	0.49
1:AB:835:PHE:O	1:AB:836:ARG:C	2.50	0.49
2:AC:14:ALA:C	2:AC:16:ASP:H	2.16	0.49
2:AC:253:ILE:HD13	2:AC:319:THR:HB	1.93	0.49
2:AF:8:SER:C	2:AF:10:THR:N	2.65	0.49
2:AG:8:SER:C	2:AG:10:THR:N	2.65	0.49
2:AJ:12:LYS:O	2:AJ:14:ALA:N	2.45	0.49
2:AJ:171:PRO:HB3	3:BM:312:LYS:CD	2.43	0.49
2:AM:12:LYS:O	2:AM:14:ALA:N	2.45	0.49
2:AN:148:THR:OG1	2:AN:332:GLU:HG2	2.11	0.49
2:AO:65:LEU:O	2:AO:66:LEU:HD23	2.12	0.49
3:BA:133:LEU:HD12	3:BA:255:ARG:HH21	1.76	0.49
3:BF:258:VAL:HG13	3:BF:259:ALA:H	1.76	0.49
3:BH:129:VAL:O	3:BH:130:ASP:C	2.51	0.49
3:BI:289:TRP:HZ3	3:BI:292:TRP:CZ2	2.30	0.49
3:BL:129:VAL:CG2	3:BL:223:LYS:HZ3	2.25	0.49
3:BM:170:ILE:CD1	3:BM:239:VAL:HB	2.42	0.49
3:BN:257:ASN:HD22	3:BN:315:ARG:HH11	1.60	0.49
3:BO:66:ALA:O	3:BO:68:ALA:N	2.45	0.49
3:BP:261:ILE:CG1	3:BP:285:MET:CG	2.76	0.49
3:BQ:170:ILE:CD1	3:BQ:239:VAL:HB	2.42	0.49
4:BX:259:THR:CB	4:BY:262:TRP:O	2.60	0.49
4:BY:2:ALA:HB1	4:BY:638:ALA:HB2	1.93	0.49
4:BY:4:LEU:O	4:BY:6:TYR:N	2.46	0.49
4:BY:10:LEU:HD21	4:BY:552:PHE:HB3	1.93	0.49
4:BZ:682:PHE:HA	4:BZ:703:PHE:HE1	1.77	0.49
4:BZ:706:GLN:O	4:BZ:707:LYS:C	2.50	0.49
1:AA:204:THR:HG23	1:AA:244:ILE:HD12	1.87	0.49
1:AA:410:LEU:O	1:AA:413:VAL:N	2.45	0.49
1:AB:190:ASN:CG	1:AB:190:ASN:O	2.48	0.49
1:AB:326:TYR:CE1	1:AB:384:ALA:HB3	2.48	0.49
1:AB:499:ASN:N	1:AB:505:GLN:HE21	2.11	0.49
1:AB:507:MET:HE1	1:AB:544:VAL:HG21	1.94	0.49
2:AD:164:PHE:H	3:BH:61:GLY:CA	2.25	0.49
2:AD:303:ALA:N	3:BF:282:GLU:OE2	2.44	0.49
2:AE:155:PRO:O	2:AE:186:SER:HB3	2.12	0.49
2:AF:253:ILE:HD13	2:AF:319:THR:HB	1.93	0.49
2:AG:310:ASN:HB3	3:BJ:180:GLU:CD	2.31	0.49
2:AH:39:ILE:HD11	2:AH:65:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AJ:148:THR:OG1	2:AJ:332:GLU:HG2	2.12	0.49
2:AK:155:PRO:O	2:AK:186:SER:HB3	2.12	0.49
2:AL:152:PHE:N	2:AL:152:PHE:CD1	2.80	0.49
3:BI:275:PRO:HD2	3:BI:276:THR:H	1.77	0.49
3:BJ:208:LEU:C	3:BJ:210:THR:N	2.66	0.49
3:BK:69:ASN:OD1	3:BK:69:ASN:O	2.31	0.49
3:BK:158:LEU:HD21	3:BK:185:ILE:HG21	1.95	0.49
3:BK:170:ILE:CD1	3:BK:239:VAL:HG23	2.43	0.49
3:BN:190:SER:O	3:BN:243:THR:OG1	2.31	0.49
3:BN:256:GLU:HB2	3:BN:314:SER:OG	2.12	0.49
3:BN:257:ASN:O	3:BN:258:VAL:C	2.51	0.49
3:BO:129:VAL:C	3:BO:131:PRO:CD	2.69	0.49
3:BP:275:PRO:HD2	3:BP:276:THR:H	1.77	0.49
4:BX:690:PHE:C	4:BX:691:PHE:CD1	2.86	0.49
4:BY:632:ASN:HD22	4:BY:632:ASN:N	2.09	0.49
4:BY:667:PHE:O	4:BY:668:ILE:HB	2.12	0.49
4:BZ:693:TYR:O	4:BZ:694:ARG:HD2	2.11	0.49
4:BZ:759:ASP:O	4:BZ:760:ASN:ND2	2.45	0.49
1:AA:542:GLN:O	1:AA:545:ASP:HB2	2.12	0.49
1:AA:601:PHE:CD1	1:AA:601:PHE:N	2.80	0.49
1:AB:94:THR:O	1:AB:94:THR:HG22	2.12	0.49
1:AB:401:TYR:HA	1:AB:404:LEU:HD13	1.94	0.49
1:AB:434:THR:O	1:AB:435:ILE:HG12	2.12	0.49
1:AB:494:ASN:CB	2:AI:69:THR:OG1	2.60	0.49
1:AB:537:SER:O	1:AB:540:LEU:CB	2.51	0.49
2:AC:8:SER:C	2:AC:10:THR:N	2.65	0.49
2:AC:364:GLY:CA	4:BY:733:ASN:OD1	2.48	0.49
2:AH:155:PRO:O	2:AH:186:SER:HB3	2.12	0.49
2:AL:155:PRO:O	2:AL:186:SER:HB3	2.13	0.49
2:AO:360:VAL:O	2:AO:378:ARG:HD3	2.11	0.49
3:BA:112:PRO:HG2	3:BA:115:SER:HB2	1.94	0.49
3:BA:275:PRO:HD2	3:BA:276:THR:H	1.77	0.49
3:BF:112:PRO:HG2	3:BF:115:SER:HB2	1.95	0.49
3:BG:75:THR:CG2	3:BG:79:SER:OG	2.60	0.49
3:BG:307:ILE:HD13	3:BG:310:MET:CE	2.39	0.49
3:BK:234:ASN:O	3:BK:235:HIS:CD2	2.60	0.49
3:BK:263:VAL:HG11	3:BK:289:TRP:CD1	2.42	0.49
3:BN:158:LEU:HD21	3:BN:185:ILE:HG21	1.95	0.49
3:BO:265:GLY:O	3:BQ:149:GLN:NE2	2.46	0.49
3:BP:317:LEU:CG	3:BP:318:ASN:N	2.60	0.49
4:BX:410:THR:HB	4:BX:425:ARG:CG	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:743:ASN:O	4:BX:745:LEU:N	2.45	0.49
4:BY:317:THR:HG1	4:BY:356:TRP:HZ3	1.45	0.49
4:BY:474:VAL:CG1	4:BY:476:SER:H	2.22	0.49
4:BY:686:THR:HG22	4:BY:687:ASP:N	2.27	0.49
4:BY:692:ALA:CB	4:BY:701:ILE:CG2	2.90	0.49
4:BZ:1:MET:SD	4:BZ:524:PRO:N	2.85	0.49
4:BZ:641:LEU:C	4:BZ:643:THR:N	2.64	0.49
1:AA:237:ASN:OD1	1:AA:237:ASN:O	2.29	0.49
1:AA:513:LEU:O	1:AA:516:GLN:OE1	2.30	0.49
1:AB:383:ILE:HD11	1:AB:550:LEU:HD22	1.94	0.49
1:AB:409:TRP:CH2	1:AB:413:VAL:HG21	2.48	0.49
2:AE:165:THR:HG23	3:BF:59:ILE:O	2.12	0.49
2:AG:1:MET:O	2:AG:2:ASP:C	2.51	0.49
2:AH:41:MET:O	2:AH:42:ASN:C	2.51	0.49
2:AI:253:ILE:HD13	2:AI:319:THR:HB	1.94	0.49
2:AK:148:THR:OG1	2:AK:332:GLU:HG2	2.12	0.49
2:AO:53:ASN:HD22	2:AO:354:ALA:HB3	1.76	0.49
3:BF:190:SER:O	3:BF:243:THR:OG1	2.31	0.49
3:BG:81:LEU:HD13	3:BG:307:ILE:HD11	1.95	0.49
3:BG:123:ASP:OD1	3:BG:126:SER:N	2.40	0.49
3:BG:270:ASP:OD2	3:BH:286:ARG:CD	2.60	0.49
3:BH:133:LEU:HD12	3:BH:255:ARG:HH21	1.76	0.49
3:BK:208:LEU:C	3:BK:210:THR:N	2.66	0.49
3:BL:174:TYR:CG	3:BL:198:LEU:CD1	2.91	0.49
3:BM:126:SER:CA	3:BM:223:LYS:HZ1	2.12	0.49
3:BM:150:LEU:HD21	3:BN:290:LYS:HD3	1.93	0.49
3:BM:208:LEU:C	3:BM:210:THR:N	2.66	0.49
3:BO:268:VAL:HG11	3:BP:286:ARG:HH22	1.75	0.49
3:BP:208:LEU:C	3:BP:210:THR:N	2.66	0.49
4:BX:628:THR:HG22	4:BX:629:GLU:N	2.28	0.49
4:BZ:621:LEU:HA	4:BZ:671:ARG:NH2	2.26	0.49
4:BZ:665:GLU:OE2	4:BZ:666:LYS:HE3	2.13	0.49
1:AA:147:TYR:N	1:AA:147:TYR:CD1	2.81	0.49
1:AA:295:THR:HG22	1:AA:295:THR:O	2.12	0.49
1:AA:434:THR:O	1:AA:434:THR:HG22	2.13	0.49
1:AA:817:TRP:O	1:AA:818:VAL:CG2	2.60	0.49
1:AB:510:LEU:HD11	1:AB:537:SER:HA	1.95	0.49
1:AB:707:TYR:CD1	1:AB:707:TYR:N	2.80	0.49
1:AB:752:LEU:C	1:AB:754:ASN:H	2.16	0.49
2:AG:124:PHE:O	2:AG:127:ILE:HG13	2.13	0.49
2:AG:299:ASN:ND2	2:AH:244:ALA:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AH:78:VAL:O	2:AH:81:ALA:N	2.41	0.49
2:AI:171:PRO:HD2	3:BJ:322:PHE:HE2	1.39	0.49
2:AK:145:ARG:HD2	2:AL:143:ASN:N	2.28	0.49
2:AK:299:ASN:CG	3:BL:70:SER:O	2.49	0.49
2:AO:8:SER:C	2:AO:10:THR:N	2.64	0.49
3:BA:170:ILE:CD1	3:BA:239:VAL:HB	2.42	0.49
3:BH:311:SER:O	3:BH:312:LYS:CB	2.60	0.49
3:BK:85:TYR:CE1	3:BK:120:GLU:HG2	2.46	0.49
3:BL:208:LEU:C	3:BL:210:THR:N	2.66	0.49
3:BN:55:ILE:O	3:BN:56:ASN:CG	2.50	0.49
3:BO:190:SER:O	3:BO:243:THR:OG1	2.31	0.49
3:BP:174:TYR:HD1	3:BP:198:LEU:HD12	1.63	0.49
3:BQ:158:LEU:HD21	3:BQ:185:ILE:HG21	1.95	0.49
4:BX:33:VAL:HG23	4:BY:36:ASN:CG	2.33	0.49
4:BY:312:VAL:HG11	4:BY:362:PHE:HZ	1.78	0.49
4:BY:737:SER:HG	4:BY:740:GLN:HG3	1.77	0.49
4:BZ:9:LEU:HB3	4:BZ:549:MET:CE	2.43	0.49
1:AA:454:THR:HB	1:AA:457:GLN:OE1	2.12	0.49
1:AA:744:TYR:C	1:AA:746:GLN:H	2.16	0.49
1:AA:774:LEU:HD12	1:AA:774:LEU:O	2.13	0.49
1:AB:433:ASN:O	1:AB:435:ILE:N	2.46	0.49
1:AB:437:TYR:CE2	1:AB:443:GLN:HB2	2.48	0.49
2:AG:8:SER:O	2:AG:10:THR:N	2.46	0.49
2:AH:24:TYR:C	2:AH:26:ASN:H	2.16	0.49
2:AI:168:ARG:HG2	2:AI:177:MET:HB3	1.94	0.49
2:AK:78:VAL:O	2:AK:81:ALA:N	2.41	0.49
2:AO:4:LEU:O	2:AO:5:TYR:C	2.50	0.49
3:BG:158:LEU:HD21	3:BG:185:ILE:HG21	1.95	0.49
3:BG:159:ILE:HG22	3:BG:258:VAL:CB	2.43	0.49
3:BG:170:ILE:CD1	3:BG:239:VAL:HB	2.42	0.49
3:BH:159:ILE:HG22	3:BH:258:VAL:CB	2.43	0.49
3:BI:318:ASN:O	3:BI:319:SER:O	2.31	0.49
3:BL:190:SER:O	3:BL:243:THR:OG1	2.31	0.49
3:BO:142:MET:CE	3:BO:262:GLN:OE1	2.60	0.49
3:BO:252:LEU:C	3:BO:253:GLY:O	2.49	0.49
4:BX:637:SER:O	4:BX:638:ALA:C	2.50	0.49
4:BY:45:TYR:CE2	4:BY:366:VAL:HB	2.48	0.49
4:BY:77:PRO:CD	4:BY:287:LEU:CG	2.91	0.49
4:BY:273:ILE:C	4:BY:274:ARG:HG3	2.32	0.49
4:BY:688:GLY:O	4:BY:689:ARG:CB	2.58	0.49
1:AA:134:TYR:CE1	1:AA:803:ASN:CG	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:134:TYR:CE1	1:AA:803:ASN:HB3	2.48	0.49
1:AA:499:ASN:N	1:AA:505:GLN:HE21	2.10	0.49
1:AA:503:VAL:HG12	1:AA:506:LEU:HB3	1.93	0.49
1:AA:619:ASN:ND2	1:AA:675:GLU:HG3	2.26	0.49
1:AA:807:ASN:C	1:AA:809:PHE:N	2.66	0.49
1:AB:92:GLN:HA	1:AB:95:ILE:HD12	1.95	0.49
1:AB:580:SER:O	1:AB:581:VAL:C	2.51	0.49
1:AB:605:ASN:HD21	1:AB:855:LEU:HD12	1.78	0.49
2:AC:164:PHE:H	3:BG:61:GLY:C	2.17	0.49
2:AD:8:SER:O	2:AD:10:THR:N	2.46	0.49
2:AD:148:THR:OG1	2:AD:332:GLU:HG2	2.11	0.49
2:AE:41:MET:O	2:AE:42:ASN:C	2.51	0.49
2:AE:141:LEU:O	2:AE:146:GLN:HB2	2.13	0.49
2:AG:253:ILE:HD13	2:AG:319:THR:HB	1.93	0.49
2:AH:38:ILE:HD12	2:AH:64:GLY:O	2.12	0.49
2:AI:14:ALA:C	2:AI:16:ASP:H	2.15	0.49
2:AJ:1:MET:O	2:AJ:2:ASP:C	2.51	0.49
2:AJ:8:SER:O	2:AJ:10:THR:N	2.46	0.49
2:AK:106:ARG:NH1	2:AM:93:ASP:OD2	2.43	0.49
2:AN:24:TYR:C	2:AN:26:ASN:H	2.16	0.49
2:AN:41:MET:O	2:AN:42:ASN:C	2.51	0.49
2:AN:155:PRO:O	2:AN:186:SER:HB3	2.12	0.49
3:BH:275:PRO:HD2	3:BH:276:THR:H	1.77	0.49
3:BJ:112:PRO:HG2	3:BJ:115:SER:HB2	1.95	0.49
3:BJ:172:LEU:HB2	3:BJ:173:TYR:CE2	2.47	0.49
3:BK:190:SER:O	3:BK:243:THR:OG1	2.31	0.49
3:BK:275:PRO:HD2	3:BK:276:THR:H	1.77	0.49
3:BL:268:VAL:HG12	3:BL:269:LEU:C	2.32	0.49
3:BN:130:ASP:N	3:BN:131:PRO:CD	2.75	0.49
3:BO:170:ILE:CD1	3:BO:239:VAL:HB	2.42	0.49
3:BQ:175:TYR:O	3:BQ:234:ASN:HA	2.13	0.49
4:BX:333:LEU:CD1	4:BX:334:PRO:HD2	2.43	0.49
4:BX:508:LEU:HD21	4:BX:647:ARG:O	2.12	0.49
4:BX:644:LYS:C	4:BX:646:ASP:N	2.66	0.49
4:BX:677:ASN:O	4:BX:678:ASN:HB2	2.13	0.49
4:BX:686:THR:HG22	4:BX:687:ASP:N	2.27	0.49
4:BZ:584:VAL:O	4:BZ:709:ALA:CB	2.60	0.49
4:BZ:616:SER:C	4:BZ:620:ARG:HG2	2.32	0.49
4:BZ:656:LEU:O	4:BZ:660:VAL:HG23	2.13	0.49
4:BZ:677:ASN:O	4:BZ:678:ASN:HB2	2.13	0.49
1:AA:122:LEU:CD1	1:AA:245:LEU:CD2	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:434:THR:CA	1:AA:438:PRO:HG3	2.43	0.49
1:AA:660:ASP:O	1:AA:663:TYR:N	2.46	0.49
1:AB:298:TYR:CD1	1:AB:298:TYR:C	2.86	0.49
1:AB:404:LEU:O	1:AB:405:ILE:C	2.52	0.49
1:AB:465:ASN:O	1:AB:468:VAL:N	2.45	0.49
1:AB:466:PHE:CZ	2:AH:80:THR:HG22	2.39	0.49
2:AE:8:SER:O	2:AE:10:THR:N	2.46	0.49
2:AE:135:TYR:CZ	2:AE:342:MET:HE3	2.48	0.49
2:AF:54:LEU:HD12	2:AF:55:PRO:CD	2.42	0.49
2:AF:78:VAL:O	2:AF:81:ALA:N	2.42	0.49
2:AI:167:ASN:C	3:BJ:52:ASN:N	2.66	0.49
2:AJ:34:PHE:CD2	2:AJ:66:LEU:HD12	2.45	0.49
2:AK:8:SER:O	2:AK:10:THR:N	2.46	0.49
2:AK:14:ALA:C	2:AK:16:ASP:H	2.16	0.49
2:AL:4:LEU:O	2:AL:5:TYR:C	2.49	0.49
2:AN:8:SER:O	2:AN:10:THR:N	2.46	0.49
3:BA:158:LEU:HD21	3:BA:185:ILE:HG21	1.95	0.49
3:BF:108:THR:HG23	3:BF:109:LYS:H	1.78	0.49
3:BG:150:LEU:HD21	3:BH:290:LYS:CB	2.42	0.49
3:BI:261:ILE:HG12	3:BI:285:MET:HG3	1.89	0.49
3:BI:307:ILE:HD13	3:BI:310:MET:HE3	1.94	0.49
3:BJ:170:ILE:CD1	3:BJ:239:VAL:HB	2.42	0.49
3:BJ:205:ILE:CD1	3:BK:104:GLN:HB2	2.31	0.49
3:BL:133:LEU:HD12	3:BL:255:ARG:HH21	1.77	0.49
3:BL:275:PRO:HD2	3:BL:276:THR:H	1.77	0.49
3:BN:128:SER:HB2	3:BN:224:LEU:HD22	1.94	0.49
3:BO:132:GLN:O	3:BO:133:LEU:C	2.51	0.49
4:BX:156:GLY:CA	4:BX:187:LYS:HE3	2.43	0.49
4:BX:584:VAL:N	4:BX:596:THR:HG21	2.28	0.49
4:BX:708:PHE:O	4:BX:712:VAL:HG23	2.13	0.49
4:BY:254:ILE:CG2	4:BY:255:VAL:H	2.26	0.49
4:BY:270:ASP:HB2	4:BY:307:ARG:HB2	1.94	0.49
4:BY:710:ASP:C	4:BY:712:VAL:N	2.64	0.49
4:BY:716:PRO:CD	4:BZ:750:ARG:HH21	2.21	0.49
4:BY:736:ILE:HG21	4:BY:741:ALA:HB2	1.93	0.49
4:BZ:551:LYS:HD2	4:BZ:658:ASP:OD1	2.13	0.49
4:BZ:584:VAL:CG1	4:BZ:705:VAL:HB	2.38	0.49
4:BZ:652:SER:HA	4:BZ:653:PRO:HD3	1.67	0.49
1:AA:275:PRO:CG	1:AA:278:ILE:CD1	2.91	0.48
1:AA:652:PHE:N	1:AA:652:PHE:CD1	2.81	0.48
1:AA:706:ALA:O	1:AA:708:ARG:N	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:709:ASP:HB3	1:AA:820:THR:HG23	1.94	0.48
1:AA:804:SER:HB2	1:AA:810:TYR:CB	2.43	0.48
1:AB:192:ASN:O	1:AB:193:SER:CB	2.60	0.48
2:AC:155:PRO:O	2:AC:186:SER:HB3	2.13	0.48
2:AH:148:THR:OG1	2:AH:332:GLU:HG2	2.12	0.48
2:AJ:124:PHE:O	2:AJ:127:ILE:HG13	2.13	0.48
2:AK:141:LEU:O	2:AK:146:GLN:HB2	2.13	0.48
2:AK:313:PRO:HD2	3:BN:279:PRO:HB2	1.94	0.48
3:BA:208:LEU:C	3:BA:210:THR:N	2.66	0.48
3:BF:234:ASN:O	3:BF:235:HIS:CD2	2.60	0.48
3:BF:307:ILE:HD13	3:BF:310:MET:CE	2.39	0.48
3:BG:310:MET:CG	3:BG:311:SER:N	2.57	0.48
3:BI:159:ILE:HG22	3:BI:258:VAL:CB	2.43	0.48
3:BK:262:GLN:HG2	3:BK:267:ASP:OD2	2.13	0.48
3:BL:137:TYR:OH	3:BL:312:LYS:CE	2.61	0.48
3:BN:112:PRO:HG2	3:BN:115:SER:HB2	1.95	0.48
3:BN:174:TYR:CD2	3:BN:236:LYS:HB2	2.40	0.48
3:BO:159:ILE:HG22	3:BO:258:VAL:CB	2.43	0.48
3:BP:59:ILE:O	3:BP:60:THR:C	2.47	0.48
3:BP:127:PHE:CD2	3:BP:155:LEU:CD2	2.64	0.48
4:BX:532:SER:O	4:BX:533:GLY:O	2.31	0.48
4:BX:626:THR:CG2	4:BX:627:GLN:HG3	2.38	0.48
4:BY:527:MET:HE3	4:BY:527:MET:HA	1.95	0.48
4:BY:641:LEU:HB3	4:BY:645:ILE:CD1	2.43	0.48
4:BZ:641:LEU:C	4:BZ:643:THR:H	2.16	0.48
4:BZ:643:THR:O	4:BZ:646:ASP:HB3	2.13	0.48
1:AA:253:ASN:ND2	1:AA:253:ASN:N	2.42	0.48
1:AA:451:ASP:CG	1:AB:522:PRO:HG3	2.34	0.48
1:AA:513:LEU:HA	1:AA:516:GLN:CD	2.33	0.48
1:AA:785:GLN:O	1:AA:787:VAL:N	2.46	0.48
1:AB:757:VAL:HG12	1:AB:758:ALA:N	2.28	0.48
2:AH:313:PRO:CD	3:BK:279:PRO:HB2	2.43	0.48
3:BF:125:ALA:O	3:BF:128:SER:OG	2.31	0.48
3:BG:60:THR:HG22	3:BG:62:SER:H	1.77	0.48
3:BH:307:ILE:HD13	3:BH:310:MET:CE	2.39	0.48
3:BI:158:LEU:HD12	3:BI:224:LEU:CD2	2.37	0.48
3:BL:259:ALA:HB1	3:BL:285:MET:CE	2.43	0.48
3:BO:143:LYS:HG3	3:BO:292:TRP:CZ2	2.48	0.48
3:BO:208:LEU:C	3:BO:210:THR:N	2.66	0.48
4:BX:480:TYR:C	4:BX:483:PRO:HD3	2.33	0.48
4:BX:641:LEU:C	4:BX:643:THR:N	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:672:ALA:C	4:BX:673:TYR:CD1	2.87	0.48
4:BX:721:ILE:HG22	4:BX:722:ILE:CG2	2.42	0.48
4:BY:252:GLU:CG	4:BY:253:ASP:N	2.27	0.48
4:BY:547:SER:O	4:BY:551:LYS:HG2	2.12	0.48
4:BY:634:ASP:O	4:BY:637:SER:N	2.46	0.48
4:BY:686:THR:HG22	4:BY:687:ASP:CG	2.32	0.48
4:BY:693:TYR:HE2	4:BY:724:PHE:CD2	2.31	0.48
4:BZ:22:ILE:O	4:BZ:24:GLU:N	2.46	0.48
4:BZ:566:ASP:C	4:BZ:568:LEU:N	2.67	0.48
1:AA:396:PHE:CB	1:AA:578:LEU:HD12	2.38	0.48
1:AA:499:ASN:N	1:AA:505:GLN:NE2	2.61	0.48
1:AA:506:LEU:CD2	1:AA:544:VAL:CA	2.86	0.48
1:AA:784:ALA:O	1:AA:785:GLN:C	2.51	0.48
1:AB:399:THR:O	1:AB:401:TYR:N	2.45	0.48
2:AC:131:ASN:HD22	2:AC:131:ASN:N	2.09	0.48
2:AD:124:PHE:O	2:AD:127:ILE:HG13	2.13	0.48
2:AJ:239:ASN:OD1	3:BM:63:MET:SD	2.72	0.48
2:AK:24:TYR:C	2:AK:26:ASN:H	2.16	0.48
2:AL:359:PRO:CA	4:BX:701:ILE:HG12	2.42	0.48
2:AO:8:SER:O	2:AO:10:THR:N	2.46	0.48
3:BF:154:GLU:OE2	3:BG:290:LYS:HE3	2.14	0.48
3:BG:59:ILE:HG22	3:BG:60:THR:O	2.13	0.48
3:BG:106:PHE:CD1	3:BG:116:VAL:HG21	2.48	0.48
3:BI:208:LEU:C	3:BI:210:THR:N	2.66	0.48
3:BJ:169:ASP:CB	3:BJ:173:TYR:HE1	2.24	0.48
3:BJ:175:TYR:O	3:BJ:235:HIS:N	2.41	0.48
3:BK:159:ILE:HG22	3:BK:258:VAL:CB	2.43	0.48
3:BN:326:ILE:CD1	3:BP:134:TYR:O	2.60	0.48
3:BP:70:SER:O	3:BP:71:THR:HG22	2.13	0.48
3:BP:174:TYR:HE1	3:BP:234:ASN:HB2	1.72	0.48
4:BX:1:MET:HB2	4:BX:635:ASP:OD2	2.13	0.48
4:BX:66:ASP:HB2	4:BX:286:GLY:HA2	1.91	0.48
4:BX:493:ASP:O	4:BX:494:LEU:HB3	2.13	0.48
4:BX:665:GLU:OE2	4:BX:666:LYS:HE3	2.13	0.48
4:BX:762:ILE:O	4:BX:763:ILE:C	2.51	0.48
4:BY:156:GLY:CA	4:BY:187:LYS:HE3	2.44	0.48
4:BY:551:LYS:HD2	4:BY:658:ASP:OD1	2.13	0.48
4:BZ:633:PHE:HD2	4:BZ:668:ILE:HD13	1.77	0.48
4:BZ:636:ILE:O	4:BZ:640:VAL:HG23	2.13	0.48
1:AA:269:ILE:HA	1:AA:272:ASN:HD22	1.77	0.48
1:AA:289:ASP:O	1:AA:290:ARG:CG	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:401:TYR:CD1	1:AA:401:TYR:N	2.81	0.48
1:AA:404:LEU:O	1:AA:405:ILE:C	2.50	0.48
1:AA:822:THR:O	1:AA:823:THR:HG23	2.13	0.48
1:AB:436:ILE:HG13	1:AB:437:TYR:N	2.25	0.48
1:AB:801:LYS:O	1:AB:801:LYS:HG2	2.13	0.48
2:AH:63:PHE:N	2:AH:63:PHE:CD1	2.82	0.48
2:AI:155:PRO:O	2:AI:186:SER:HB3	2.13	0.48
2:AO:6:SER:O	2:AO:8:SER:N	2.47	0.48
3:BF:148:LEU:HD22	3:BF:151:ASP:OD2	2.13	0.48
3:BI:53:TYR:CG	3:BI:53:TYR:O	2.67	0.48
3:BI:174:TYR:CG	3:BI:198:LEU:CD1	2.91	0.48
3:BI:323:TYR:CD2	3:BI:323:TYR:O	2.66	0.48
3:BJ:108:THR:HG23	3:BJ:109:LYS:H	1.78	0.48
3:BJ:158:LEU:HD21	3:BJ:185:ILE:HG21	1.95	0.48
3:BJ:257:ASN:ND2	3:BJ:313:ARG:HG3	2.28	0.48
3:BJ:275:PRO:HD2	3:BJ:276:THR:H	1.77	0.48
3:BK:78:THR:O	3:BK:78:THR:HG22	2.13	0.48
3:BL:158:LEU:HD21	3:BL:185:ILE:HG21	1.95	0.48
3:BN:125:ALA:O	3:BN:129:VAL:HG23	2.14	0.48
3:BN:174:TYR:CE2	3:BN:198:LEU:HD21	2.48	0.48
3:BO:175:TYR:O	3:BO:235:HIS:N	2.43	0.48
3:BP:159:ILE:HG22	3:BP:258:VAL:CB	2.43	0.48
4:BX:2:ALA:O	4:BX:3:SER:C	2.51	0.48
4:BX:520:LEU:HG	4:BX:520:LEU:O	2.12	0.48
4:BX:620:ARG:HB3	4:BX:673:TYR:HE1	1.74	0.48
4:BY:9:LEU:O	4:BY:12:ASN:N	2.47	0.48
4:BY:520:LEU:O	4:BY:520:LEU:HG	2.13	0.48
4:BZ:278:ALA:HB2	4:BZ:299:ALA:HB2	1.95	0.48
4:BZ:549:MET:C	4:BZ:551:LYS:N	2.65	0.48
4:BZ:704:ASP:O	4:BZ:708:PHE:HB2	2.14	0.48
1:AA:204:THR:HA	1:AA:244:ILE:HB	1.94	0.48
1:AA:284:TYR:OH	1:AA:594:ILE:CG2	2.61	0.48
1:AA:338:GLU:HG3	1:AA:338:GLU:O	2.13	0.48
1:AA:527:ARG:O	1:AA:531:ARG:CG	2.61	0.48
1:AA:629:ASN:HD21	1:AA:670:ARG:NH1	2.12	0.48
1:AB:122:LEU:HG	1:AB:201:ASP:CB	2.44	0.48
1:AB:418:MET:O	1:AB:419:PHE:CD1	2.61	0.48
1:AB:504:ASN:O	1:AB:505:GLN:C	2.51	0.48
1:AB:803:ASN:H	1:AB:807:ASN:ND2	2.11	0.48
2:AE:14:ALA:C	2:AE:16:ASP:H	2.16	0.48
2:AH:8:SER:O	2:AH:10:THR:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:8:SER:O	2:AM:10:THR:N	2.46	0.48
3:BI:174:TYR:CD1	3:BI:198:LEU:HD13	2.34	0.48
3:BI:190:SER:O	3:BI:243:THR:OG1	2.31	0.48
3:BJ:174:TYR:HE1	3:BJ:234:ASN:HB2	1.72	0.48
3:BL:137:TYR:CZ	3:BL:312:LYS:HG2	2.48	0.48
3:BL:165:CYS:O	3:BL:323:TYR:N	2.46	0.48
3:BM:150:LEU:CD2	3:BN:290:LYS:CA	2.91	0.48
3:BM:158:LEU:HD21	3:BM:185:ILE:HG21	1.95	0.48
3:BN:108:THR:HG23	3:BN:109:LYS:H	1.78	0.48
3:BO:108:THR:HG23	3:BO:109:LYS:H	1.78	0.48
3:BQ:106:PHE:HE2	3:BQ:303:VAL:CG2	2.27	0.48
3:BQ:112:PRO:HG2	3:BQ:115:SER:HB2	1.95	0.48
3:BQ:159:ILE:HG22	3:BQ:258:VAL:CB	2.43	0.48
3:BQ:166:ASN:C	3:BQ:247:ARG:CD	2.82	0.48
3:BQ:311:SER:O	3:BQ:312:LYS:CB	2.60	0.48
4:BX:37:LEU:HD21	4:BX:480:TYR:HD2	1.78	0.48
4:BX:534:ILE:O	4:BX:534:ILE:HG22	2.14	0.48
4:BX:761:PRO:O	4:BX:762:ILE:C	2.52	0.48
4:BY:637:SER:OG	4:BY:638:ALA:N	2.47	0.48
4:BY:753:ARG:HG3	4:BY:753:ARG:NH1	2.28	0.48
4:BZ:609:SER:O	4:BZ:613:SER:HB2	2.14	0.48
1:AA:876:ILE:O	1:AA:877:MET:CB	2.61	0.48
1:AB:456:PHE:HZ	1:AB:471:TRP:CH2	2.32	0.48
1:AB:457:GLN:CB	1:AB:476:ASN:CG	2.81	0.48
2:AH:141:LEU:O	2:AH:146:GLN:HB2	2.13	0.48
2:AL:346:VAL:CG2	2:AL:385:VAL:HG13	2.44	0.48
2:AM:124:PHE:O	2:AM:127:ILE:HG13	2.13	0.48
3:BA:159:ILE:HG22	3:BA:258:VAL:CB	2.43	0.48
3:BF:315:ARG:CD	3:BF:317:LEU:HB2	2.43	0.48
3:BH:191:CYS:HG	3:BH:244:CYS:CB	2.26	0.48
3:BI:106:PHE:HE2	3:BI:303:VAL:CG2	2.27	0.48
3:BI:154:GLU:OE1	3:BI:154:GLU:HA	2.14	0.48
3:BJ:190:SER:O	3:BJ:243:THR:OG1	2.31	0.48
3:BM:190:SER:O	3:BM:243:THR:OG1	2.31	0.48
3:BO:76:PHE:HZ	3:BO:304:ASN:OD1	1.92	0.48
3:BO:129:VAL:O	3:BO:131:PRO:CD	2.58	0.48
4:BX:557:LEU:CD2	4:BX:621:LEU:HG	2.44	0.48
4:BY:584:VAL:CG2	4:BY:596:THR:HG23	2.43	0.48
4:BY:693:TYR:HB3	4:BY:698:PHE:HA	1.95	0.48
4:BY:701:ILE:O	4:BY:702:PRO:C	2.51	0.48
4:BZ:593:ASP:HA	4:BZ:596:THR:HB	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:238:VAL:HG12	1:AA:239:VAL:N	2.29	0.48
1:AA:250:HIS:NE2	1:AA:842:LEU:HD21	2.29	0.48
1:AA:570:THR:CG2	1:AA:571:LEU:H	2.23	0.48
1:AA:614:TYR:O	1:AA:618:ILE:HG12	2.14	0.48
1:AB:570:THR:HG22	1:AB:571:LEU:N	2.29	0.48
1:AB:577:GLN:O	1:AB:579:THR:N	2.46	0.48
2:AF:14:ALA:C	2:AF:16:ASP:H	2.15	0.48
2:AN:14:ALA:C	2:AN:16:ASP:H	2.16	0.48
2:AO:152:PHE:N	2:AO:152:PHE:CD1	2.81	0.48
3:BG:131:PRO:CG	3:BG:131:PRO:O	2.61	0.48
3:BH:106:PHE:HE2	3:BH:303:VAL:CG2	2.27	0.48
3:BI:170:ILE:HD11	3:BI:239:VAL:CG2	2.44	0.48
3:BJ:154:GLU:OE1	3:BJ:154:GLU:HA	2.14	0.48
3:BK:106:PHE:HE2	3:BK:303:VAL:CG2	2.27	0.48
3:BK:112:PRO:HG2	3:BK:115:SER:HB2	1.95	0.48
3:BK:126:SER:HA	3:BK:223:LYS:HZ2	1.71	0.48
3:BL:75:THR:CG2	3:BL:79:SER:OG	2.61	0.48
3:BN:144:TYR:N	3:BN:263:VAL:O	2.36	0.48
3:BO:174:TYR:HD1	3:BO:234:ASN:HB3	1.73	0.48
4:BX:156:GLY:HA2	4:BX:187:LYS:CE	2.43	0.48
4:BX:641:LEU:O	4:BX:643:THR:N	2.47	0.48
4:BX:693:TYR:HD1	4:BX:693:TYR:H	1.62	0.48
4:BX:706:GLN:C	4:BX:708:PHE:N	2.63	0.48
4:BX:740:GLN:O	4:BX:741:ALA:C	2.51	0.48
4:BX:754:GLU:O	4:BX:755:PHE:C	2.51	0.48
4:BY:10:LEU:O	4:BZ:528:PHE:HB2	2.13	0.48
4:BY:637:SER:O	4:BY:638:ALA:C	2.51	0.48
4:BY:641:LEU:C	4:BY:643:THR:H	2.17	0.48
4:BZ:7:ARG:HD2	4:BZ:625:ALA:HA	1.95	0.48
4:BZ:525:LEU:HD12	4:BZ:529:SER:HB2	1.94	0.48
4:BZ:661:THR:CG2	4:BZ:662:GLU:N	2.75	0.48
4:BZ:666:LYS:HB2	4:BZ:776:LEU:HD13	1.95	0.48
4:BZ:762:ILE:HA	4:BZ:765:ASN:HD21	1.78	0.48
1:AA:125:ILE:HG22	1:AA:150:LEU:HD12	1.88	0.48
1:AA:254:GLU:O	1:AA:257:LEU:N	2.40	0.48
1:AA:315:GLU:HG2	1:AB:531:ARG:NH1	2.29	0.48
1:AA:503:VAL:O	1:AA:505:GLN:N	2.46	0.48
1:AA:745:ALA:HA	1:AA:748:THR:CB	2.44	0.48
1:AB:190:ASN:HB2	1:AB:199:VAL:HG23	1.96	0.48
1:AB:244:ILE:HD12	1:AB:838:SER:C	2.33	0.48
1:AB:500:GLY:HA3	1:AB:871:PHE:CZ	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:37:MET:O	2:AG:38:ILE:C	2.52	0.48
2:AH:164:PHE:H	3:BK:61:GLY:C	2.17	0.48
2:AK:41:MET:O	2:AK:42:ASN:C	2.51	0.48
2:AM:37:MET:O	2:AM:38:ILE:C	2.52	0.48
2:AM:311:ALA:HB2	3:BQ:180:GLU:OE2	2.14	0.48
2:AO:1:MET:O	2:AO:2:ASP:C	2.52	0.48
3:BF:252:LEU:O	3:BF:253:GLY:O	2.32	0.48
3:BF:275:PRO:HD2	3:BF:276:THR:H	1.77	0.48
3:BH:112:PRO:HG2	3:BH:115:SER:HB2	1.95	0.48
3:BK:170:ILE:HD11	3:BK:239:VAL:CG2	2.44	0.48
3:BL:106:PHE:HE2	3:BL:303:VAL:CG2	2.27	0.48
3:BM:106:PHE:HE2	3:BM:303:VAL:CG2	2.27	0.48
3:BM:159:ILE:HG22	3:BM:258:VAL:CB	2.43	0.48
3:BN:191:CYS:HG	3:BN:244:CYS:HB3	1.78	0.48
3:BO:158:LEU:HD21	3:BO:185:ILE:HG21	1.95	0.48
3:BP:154:GLU:HA	3:BP:154:GLU:OE1	2.14	0.48
3:BQ:70:SER:O	3:BQ:71:THR:OG1	2.32	0.48
3:BQ:154:GLU:OE1	3:BQ:154:GLU:HA	2.14	0.48
3:BQ:190:SER:O	3:BQ:243:THR:OG1	2.31	0.48
4:BX:10:LEU:HD21	4:BX:552:PHE:CD2	2.46	0.48
4:BX:355:TYR:HB3	4:BX:424:LEU:HB2	1.95	0.48
4:BX:574:SER:C	4:BX:575:ILE:HG22	2.34	0.48
4:BX:593:ASP:HA	4:BX:596:THR:HB	1.95	0.48
4:BY:677:ASN:O	4:BY:678:ASN:HB2	2.14	0.48
1:AB:492:VAL:HA	1:AB:565:MET:CG	2.43	0.48
1:AB:614:TYR:O	1:AB:618:ILE:HG12	2.14	0.48
1:AB:655:SER:C	1:AB:657:VAL:H	2.17	0.48
2:AC:239:ASN:HD21	3:BG:66:ALA:C	2.10	0.48
2:AD:37:MET:O	2:AD:38:ILE:C	2.52	0.48
2:AD:61:PHE:N	2:AD:61:PHE:CD1	2.82	0.48
2:AF:155:PRO:O	2:AF:186:SER:HB3	2.13	0.48
2:AH:99:GLU:HG3	2:AH:99:GLU:O	2.14	0.48
2:AH:150:PHE:N	2:AH:150:PHE:CD1	2.80	0.48
2:AJ:8:SER:C	2:AJ:10:THR:N	2.65	0.48
2:AN:6:SER:O	2:AN:8:SER:N	2.47	0.48
3:BF:106:PHE:HE2	3:BF:303:VAL:CG2	2.27	0.48
3:BF:204:GLY:HA3	3:BF:207:CYS:O	2.14	0.48
3:BF:208:LEU:CD2	4:BZ:433:GLU:OE2	2.62	0.48
3:BG:190:SER:O	3:BG:243:THR:OG1	2.31	0.48
3:BH:190:SER:O	3:BH:243:THR:OG1	2.31	0.48
3:BJ:289:TRP:HH2	3:BJ:292:TRP:NE1	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:108:THR:HG23	3:BL:109:LYS:H	1.78	0.48
3:BL:129:VAL:HG23	3:BL:223:LYS:NZ	2.29	0.48
3:BL:172:LEU:HB3	3:BL:173:TYR:CE1	2.49	0.48
3:BL:174:TYR:HD1	3:BL:234:ASN:HB3	1.73	0.48
3:BN:317:LEU:O	3:BP:323:TYR:O	2.31	0.48
3:BP:158:LEU:HD21	3:BP:185:ILE:HG21	1.95	0.48
3:BP:175:TYR:HE1	3:BP:237:LEU:HD22	1.79	0.48
3:BP:190:SER:O	3:BP:243:THR:OG1	2.31	0.48
4:BX:502:ARG:O	4:BX:505:PHE:N	2.47	0.48
4:BX:566:ASP:C	4:BX:568:LEU:N	2.67	0.48
4:BZ:307:ARG:O	4:BZ:310:GLU:HG3	2.14	0.48
4:BZ:563:THR:O	4:BZ:564:LEU:C	2.52	0.48
1:AA:142:LEU:O	1:AA:143:ARG:HG2	2.13	0.48
1:AA:314:PHE:CZ	1:AA:664:ARG:HB3	2.49	0.48
1:AB:444:ARG:NH2	1:AB:520:THR:HA	2.29	0.48
1:AB:464:GLN:HG3	2:AH:66:LEU:HG	1.96	0.48
1:AB:583:SER:O	1:AB:584:LEU:C	2.52	0.48
1:AB:638:MET:CE	1:AB:666:ARG:NH1	2.77	0.48
2:AD:110:ALA:HB1	2:AD:111:PRO:CD	2.44	0.48
2:AE:6:SER:O	2:AE:8:SER:N	2.47	0.48
2:AI:153:HIS:NE2	2:AJ:153:HIS:NE2	2.62	0.48
2:AI:357:VAL:H	4:BX:735:GLY:N	2.12	0.48
2:AJ:255:ARG:HH21	3:BN:67:TYR:HE1	1.57	0.48
2:AK:6:SER:O	2:AK:8:SER:N	2.47	0.48
2:AM:14:ALA:C	2:AM:16:ASP:H	2.17	0.48
2:AN:99:GLU:HG3	2:AN:99:GLU:O	2.14	0.48
2:AN:139:TRP:CD1	2:AN:139:TRP:C	2.88	0.48
2:AN:346:VAL:CG2	2:AN:385:VAL:HG13	2.44	0.48
2:AO:14:ALA:C	2:AO:16:ASP:H	2.16	0.48
2:AO:23:LEU:HD23	2:AO:24:TYR:CA	2.44	0.48
3:BF:154:GLU:OE1	3:BF:154:GLU:HA	2.14	0.48
3:BG:79:SER:HB3	3:BG:312:LYS:HD2	1.96	0.48
3:BH:158:LEU:HD21	3:BH:185:ILE:HG21	1.95	0.48
3:BI:150:LEU:CD2	3:BJ:290:LYS:CA	2.91	0.48
3:BI:261:ILE:CG1	3:BI:285:MET:CG	2.76	0.48
3:BJ:204:GLY:HA3	3:BJ:207:CYS:O	2.14	0.48
3:BK:54:GLY:O	3:BK:55:ILE:CB	2.61	0.48
3:BK:144:TYR:N	3:BK:263:VAL:O	2.46	0.48
3:BL:144:TYR:CD1	3:BL:265:GLY:HA3	2.49	0.48
3:BN:173:TYR:HD2	4:BX:489:THR:OG1	1.95	0.48
3:BP:150:LEU:CD2	3:BQ:290:LYS:CA	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BQ:78:THR:O	3:BQ:78:THR:CG2	2.62	0.48
4:BX:495:GLU:O	4:BX:496:ARG:C	2.52	0.48
4:BX:584:VAL:O	4:BX:709:ALA:CB	2.61	0.48
4:BY:261:LEU:HD12	4:BY:478:ASP:CG	2.24	0.48
4:BZ:605:VAL:HB	4:BZ:606:SER:H	1.47	0.48
4:BZ:659:ILE:HG23	4:BZ:660:VAL:N	2.28	0.48
4:BZ:686:THR:HG22	4:BZ:687:ASP:CG	2.34	0.48
1:AA:170:TYR:CE1	1:AA:682:PHE:HB2	2.49	0.47
1:AA:285:ILE:CG1	1:AA:861:ASP:HB2	2.44	0.47
1:AA:401:TYR:CE2	1:AA:434:THR:CG2	2.97	0.47
1:AA:436:ILE:O	1:AA:440:PHE:CB	2.61	0.47
1:AA:555:GLU:OE1	1:AA:871:PHE:HD2	1.95	0.47
1:AA:584:LEU:O	1:AA:588:ILE:HD12	2.14	0.47
1:AA:647:LYS:HE2	1:AA:654:ILE:CD1	2.28	0.47
1:AA:694:ARG:HD2	1:AA:828:GLN:CG	2.43	0.47
1:AA:694:ARG:HD3	1:AA:701:GLN:HE21	1.79	0.47
1:AA:802:ILE:HA	1:AA:807:ASN:HD21	1.77	0.47
1:AB:199:VAL:HG12	1:AB:200:VAL:H	1.74	0.47
1:AB:387:LEU:HD21	1:AB:554:TYR:CD1	2.49	0.47
1:AB:450:GLY:C	1:AB:451:ASP:OD1	2.51	0.47
1:AB:499:ASN:N	1:AB:505:GLN:NE2	2.61	0.47
1:AB:518:PHE:HB3	2:AH:69:THR:OG1	2.14	0.47
2:AC:37:MET:O	2:AC:38:ILE:C	2.53	0.47
2:AE:32:GLN:O	2:AE:33:GLN:C	2.53	0.47
2:AE:346:VAL:CG2	2:AE:385:VAL:HG13	2.44	0.47
2:AI:8:SER:O	2:AI:10:THR:N	2.47	0.47
2:AL:78:VAL:O	2:AL:81:ALA:N	2.42	0.47
3:BA:204:GLY:HA3	3:BA:207:CYS:O	2.14	0.47
3:BF:158:LEU:HD21	3:BF:185:ILE:HG21	1.95	0.47
3:BF:208:LEU:C	3:BF:210:THR:N	2.66	0.47
3:BF:258:VAL:CG1	3:BF:260:VAL:HG23	2.44	0.47
3:BL:150:LEU:HD22	3:BM:290:LYS:CA	2.44	0.47
3:BL:204:GLY:HA3	3:BL:207:CYS:O	2.14	0.47
3:BM:112:PRO:HG2	3:BM:115:SER:HB2	1.95	0.47
3:BM:128:SER:OG	3:BM:224:LEU:CD2	2.61	0.47
3:BO:150:LEU:HD22	3:BP:290:LYS:CA	2.44	0.47
3:BO:170:ILE:HD11	3:BO:239:VAL:CG2	2.44	0.47
3:BP:170:ILE:CD1	3:BP:239:VAL:HG23	2.43	0.47
3:BP:170:ILE:HD11	3:BP:239:VAL:CG2	2.44	0.47
4:BX:1:MET:HG3	4:BX:522:LEU:N	2.29	0.47
4:BX:25:ILE:HG21	4:BY:26:GLY:C	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:369:ARG:HG2	4:BX:369:ARG:NH1	2.29	0.47
4:BX:480:TYR:CE2	4:BY:40:PHE:CZ	3.02	0.47
4:BX:571:ALA:O	4:BY:516:GLN:HG3	2.14	0.47
4:BX:658:ASP:O	4:BX:659:ILE:C	2.53	0.47
4:BY:156:GLY:HA2	4:BY:187:LYS:CE	2.44	0.47
4:BY:502:ARG:O	4:BY:504:GLU:N	2.46	0.47
4:BY:540:ALA:CB	4:BY:544:MET:CE	2.88	0.47
4:BY:607:SER:OG	4:BY:608:ILE:N	2.43	0.47
4:BZ:658:ASP:O	4:BZ:659:ILE:C	2.51	0.47
1:AA:101:LYS:O	1:AA:102:GLU:HB2	2.15	0.47
1:AA:321:ILE:HG13	1:AA:652:PHE:HZ	1.79	0.47
1:AA:466:PHE:O	1:AA:467:GLN:C	2.52	0.47
1:AA:526:LYS:HA	1:AA:529:ILE:CG2	2.43	0.47
1:AA:568:VAL:CG1	1:AA:569:GLN:H	2.02	0.47
1:AA:839:MET:HE3	1:AA:840:HIS:C	2.35	0.47
1:AB:246:HIS:CG	1:AB:247:PRO:HD2	2.49	0.47
1:AB:447:TYR:CE1	1:AB:458:ILE:HD11	2.49	0.47
1:AB:466:PHE:CD1	2:AH:80:THR:CG2	2.68	0.47
1:AB:731:GLN:NE2	1:AB:757:VAL:HG22	2.29	0.47
2:AC:123:LYS:HG3	2:AC:124:PHE:CD1	2.50	0.47
2:AC:153:HIS:NE2	2:AD:153:HIS:NE2	2.62	0.47
2:AD:35:ASN:O	2:AD:36:GLN:C	2.53	0.47
2:AG:110:ALA:HB1	2:AG:111:PRO:CD	2.44	0.47
2:AG:139:TRP:CD1	2:AG:139:TRP:C	2.88	0.47
2:AJ:37:MET:O	2:AJ:38:ILE:C	2.52	0.47
3:BA:108:THR:HG23	3:BA:109:LYS:H	1.78	0.47
3:BJ:159:ILE:HG22	3:BJ:258:VAL:CB	2.43	0.47
3:BK:256:GLU:HB2	3:BK:312:LYS:O	2.13	0.47
3:BM:193:ILE:CG2	3:BM:237:LEU:HD11	2.45	0.47
3:BQ:204:GLY:HA3	3:BQ:207:CYS:O	2.14	0.47
4:BX:547:SER:O	4:BX:551:LYS:HG2	2.13	0.47
4:BX:609:SER:O	4:BX:613:SER:HB2	2.14	0.47
4:BY:593:ASP:HA	4:BY:596:THR:OG1	2.14	0.47
4:BY:654:ASN:O	4:BY:657:PRO:HD2	2.14	0.47
4:BZ:641:LEU:HB3	4:BZ:645:ILE:CD1	2.44	0.47
1:AA:548:ARG:NH1	1:AA:877:MET:HA	2.29	0.47
1:AB:108:LEU:HD13	1:AB:111:ILE:HD12	1.96	0.47
1:AB:126:PHE:CB	1:AB:149:LYS:O	2.62	0.47
1:AB:298:TYR:CD1	1:AB:299:ILE:N	2.79	0.47
1:AB:329:ALA:HB3	1:AB:384:ALA:CB	2.44	0.47
1:AB:481:ARG:CD	2:AI:65:LEU:CD1	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:481:ARG:O	1:AB:483:VAL:N	2.46	0.47
1:AB:487:GLY:O	1:AB:488:VAL:HB	2.15	0.47
2:AC:8:SER:O	2:AC:10:THR:N	2.47	0.47
2:AF:8:SER:O	2:AF:10:THR:N	2.47	0.47
2:AF:346:VAL:CG2	2:AF:385:VAL:HG13	2.44	0.47
2:AG:310:ASN:CB	3:BJ:180:GLU:CD	2.81	0.47
2:AJ:139:TRP:CD1	2:AJ:139:TRP:C	2.88	0.47
2:AL:8:SER:O	2:AL:10:THR:N	2.47	0.47
2:AM:105:GLN:NE2	2:AM:359:PRO:O	2.47	0.47
2:AM:171:PRO:HB3	3:BQ:312:LYS:HD2	1.96	0.47
3:BA:252:LEU:O	3:BA:253:GLY:O	2.32	0.47
3:BF:136:ASP:OD2	3:BF:312:LYS:NZ	2.45	0.47
3:BF:268:VAL:O	3:BG:266:SER:HB2	2.15	0.47
3:BF:315:ARG:NH2	3:BF:317:LEU:HD22	2.15	0.47
3:BG:130:ASP:O	3:BG:130:ASP:CG	2.51	0.47
3:BI:108:THR:HG23	3:BI:109:LYS:H	1.78	0.47
3:BI:112:PRO:HG2	3:BI:115:SER:HB2	1.95	0.47
3:BI:129:VAL:CG2	3:BI:223:LYS:HZ2	2.28	0.47
3:BL:112:PRO:HG2	3:BL:115:SER:HB2	1.95	0.47
3:BM:150:LEU:HD21	3:BN:290:LYS:HB3	1.95	0.47
3:BM:154:GLU:OE1	3:BM:154:GLU:HA	2.14	0.47
3:BN:137:TYR:CE1	3:BN:312:LYS:HD2	2.49	0.47
3:BN:204:GLY:HA3	3:BN:207:CYS:O	2.14	0.47
3:BO:204:GLY:HA3	3:BO:207:CYS:O	2.14	0.47
3:BP:106:PHE:HE2	3:BP:303:VAL:CG2	2.27	0.47
3:BP:175:TYR:CZ	3:BP:237:LEU:HD22	2.50	0.47
4:BX:13:SER:O	4:BX:16:VAL:N	2.47	0.47
4:BX:48:VAL:CA	4:BX:419:VAL:HG11	2.41	0.47
4:BX:268:ASN:C	4:BX:269:ARG:HG2	2.33	0.47
4:BX:549:MET:C	4:BX:551:LYS:N	2.67	0.47
4:BX:603:SER:O	4:BX:604:SER:CB	2.62	0.47
4:BY:287:LEU:HD22	4:BY:289:TYR:HE1	1.79	0.47
4:BY:525:LEU:CD2	4:BY:642:LYS:HB2	2.43	0.47
4:BY:581:ILE:CA	4:BY:597:GLN:HG2	2.41	0.47
4:BY:603:SER:O	4:BY:604:SER:HB3	2.12	0.47
4:BY:658:ASP:O	4:BY:659:ILE:C	2.52	0.47
4:BY:746:ARG:O	4:BY:747:SER:HB3	2.14	0.47
4:BZ:440:THR:O	4:BZ:441:ARG:HB2	2.15	0.47
4:BZ:593:ASP:HA	4:BZ:596:THR:CB	2.44	0.47
4:BZ:717:VAL:CG1	4:BZ:718:ILE:N	2.73	0.47
1:AA:122:LEU:HD11	1:AA:201:ASP:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:204:THR:HG23	1:AA:244:ILE:HB	1.95	0.47
1:AA:263:GLU:CB	1:AA:264:PRO:CD	2.84	0.47
1:AA:790:ARG:NH1	1:AB:287:ASN:OD1	2.47	0.47
1:AB:137:ASN:O	1:AB:137:ASN:CG	2.52	0.47
1:AB:636:LYS:O	1:AB:637:LYS:CB	2.62	0.47
1:AB:674:VAL:HB	1:AB:679:LEU:HB2	1.96	0.47
2:AD:346:VAL:CG2	2:AD:385:VAL:HG13	2.44	0.47
2:AE:57:ARG:NH1	2:AE:94:ASN:HD21	2.07	0.47
2:AF:32:GLN:O	2:AF:33:GLN:C	2.53	0.47
2:AF:123:LYS:HG3	2:AF:124:PHE:CD1	2.50	0.47
2:AF:153:HIS:NE2	2:AG:153:HIS:NE2	2.62	0.47
2:AH:139:TRP:C	2:AH:139:TRP:CD1	2.88	0.47
2:AJ:105:GLN:NE2	2:AJ:359:PRO:O	2.47	0.47
2:AJ:110:ALA:HB1	2:AJ:111:PRO:CD	2.44	0.47
2:AK:139:TRP:C	2:AK:139:TRP:CD1	2.88	0.47
2:AL:32:GLN:O	2:AL:33:GLN:C	2.53	0.47
2:AL:37:MET:O	2:AL:38:ILE:C	2.53	0.47
2:AM:61:PHE:N	2:AM:61:PHE:CD1	2.82	0.47
2:AM:110:ALA:HB1	2:AM:111:PRO:CD	2.44	0.47
2:AN:54:LEU:HD12	2:AN:55:PRO:CD	2.44	0.47
3:BA:190:SER:O	3:BA:243:THR:OG1	2.31	0.47
3:BG:106:PHE:HE2	3:BG:303:VAL:CG2	2.27	0.47
3:BG:137:TYR:OH	3:BG:312:LYS:CB	2.62	0.47
3:BL:129:VAL:HG23	3:BL:223:LYS:HZ2	1.79	0.47
3:BL:290:LYS:HA	3:BN:150:LEU:HD22	1.97	0.47
3:BM:128:SER:OG	3:BM:224:LEU:CG	2.63	0.47
3:BM:204:GLY:HA3	3:BM:207:CYS:O	2.14	0.47
3:BO:154:GLU:OE1	3:BO:154:GLU:HA	2.14	0.47
3:BO:290:LYS:CA	3:BQ:150:LEU:HD22	2.45	0.47
3:BQ:208:LEU:C	3:BQ:210:THR:N	2.66	0.47
4:BX:35:ILE:HD13	4:BY:484:ILE:H	1.78	0.47
4:BX:45:TYR:CD2	4:BX:262:TRP:HH2	2.29	0.47
4:BX:361:ALA:O	4:BX:364:ASN:N	2.45	0.47
4:BX:489:THR:OG1	4:BX:490:VAL:N	2.45	0.47
4:BY:9:LEU:HB3	4:BY:549:MET:HE1	1.96	0.47
4:BY:24:GLU:O	4:BY:28:THR:N	2.37	0.47
4:BY:77:PRO:HD3	4:BY:287:LEU:CG	2.44	0.47
4:BY:619:LEU:HA	4:BY:619:LEU:HD23	1.65	0.47
4:BY:665:GLU:OE2	4:BY:666:LYS:HE3	2.14	0.47
4:BZ:743:ASN:C	4:BZ:745:LEU:N	2.68	0.47
1:AA:414:VAL:HB	1:AA:419:PHE:HE1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:841:MET:O	1:AA:842:LEU:HD23	2.13	0.47
1:AA:871:PHE:O	1:AA:871:PHE:CD1	2.67	0.47
1:AB:590:ASN:N	1:AB:590:ASN:ND2	2.51	0.47
1:AB:601:PHE:O	1:AB:602:HIS:C	2.53	0.47
1:AB:876:ILE:HG13	1:AB:877:MET:HB2	1.96	0.47
2:AD:14:ALA:C	2:AD:16:ASP:H	2.17	0.47
2:AE:60:ASN:C	2:AE:61:PHE:CD1	2.88	0.47
2:AE:99:GLU:O	2:AE:99:GLU:HG3	2.14	0.47
2:AE:139:TRP:CD1	2:AE:139:TRP:C	2.87	0.47
2:AF:34:PHE:O	2:AF:37:MET:HB3	2.15	0.47
2:AG:34:PHE:CD2	2:AG:66:LEU:HD11	2.49	0.47
2:AG:111:PRO:HB3	2:AG:116:LEU:HG	1.97	0.47
2:AG:241:ALA:CB	3:BJ:59:ILE:HD13	2.35	0.47
2:AI:75:ALA:HB3	2:AM:76:ASN:CA	2.35	0.47
2:AI:306:ALA:CB	3:BM:282:GLU:OE2	2.62	0.47
2:AJ:14:ALA:C	2:AJ:16:ASP:H	2.17	0.47
2:AJ:35:ASN:O	2:AJ:36:GLN:C	2.53	0.47
2:AM:111:PRO:HB3	2:AM:116:LEU:HG	1.97	0.47
2:AN:57:ARG:NH1	2:AN:94:ASN:HD21	2.07	0.47
3:BA:108:THR:CG2	3:BA:109:LYS:H	2.27	0.47
3:BF:290:LYS:CA	3:BH:150:LEU:CD2	2.93	0.47
3:BG:150:LEU:HD22	3:BH:290:LYS:CA	2.44	0.47
3:BG:193:ILE:CG2	3:BG:237:LEU:HD11	2.45	0.47
3:BJ:192:THR:HG23	3:BJ:220:THR:HA	1.97	0.47
3:BJ:193:ILE:CG2	3:BJ:237:LEU:HD11	2.45	0.47
3:BL:154:GLU:OE1	3:BL:154:GLU:HA	2.14	0.47
3:BL:290:LYS:CA	3:BN:150:LEU:HD22	2.45	0.47
3:BN:193:ILE:CG2	3:BN:237:LEU:HD11	2.45	0.47
3:BN:263:VAL:CG1	3:BN:289:TRP:HB2	2.44	0.47
3:BO:112:PRO:HG2	3:BO:115:SER:HB2	1.95	0.47
3:BO:153:SER:CB	3:BO:269:LEU:CD1	2.92	0.47
3:BO:175:TYR:HE1	3:BO:237:LEU:HD22	1.79	0.47
3:BP:112:PRO:HG2	3:BP:115:SER:HB2	1.95	0.47
3:BP:123:ASP:CG	3:BP:126:SER:H	2.17	0.47
4:BX:658:ASP:O	4:BX:661:THR:N	2.48	0.47
4:BX:710:ASP:O	4:BX:713:THR:N	2.47	0.47
4:BY:355:TYR:CE1	4:BY:357:ASP:CG	2.88	0.47
4:BY:637:SER:O	4:BY:640:VAL:N	2.47	0.47
4:BZ:555:SER:O	4:BZ:559:ASN:ND2	2.48	0.47
4:BZ:618:ARG:O	4:BZ:619:LEU:C	2.53	0.47
1:AA:317:LEU:CD2	1:AA:652:PHE:HD2	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:427:CYS:O	1:AA:431:ILE:HG13	2.14	0.47
1:AA:713:GLU:O	1:AA:720:TYR:CB	2.63	0.47
1:AB:89:GLU:O	1:AB:92:GLN:N	2.48	0.47
1:AB:383:ILE:HD11	1:AB:550:LEU:CD2	2.44	0.47
1:AB:463:ILE:HD12	1:AB:472:LEU:HD13	1.96	0.47
1:AB:539:ARG:O	1:AB:542:GLN:N	2.45	0.47
1:AB:542:GLN:O	1:AB:545:ASP:N	2.47	0.47
1:AB:583:SER:OG	1:AB:584:LEU:N	2.47	0.47
1:AB:703:VAL:HG13	1:AB:824:LYS:O	2.15	0.47
1:AB:772:ILE:CG2	1:AB:773:SER:H	2.26	0.47
2:AD:105:GLN:NE2	2:AD:359:PRO:O	2.47	0.47
2:AE:24:TYR:C	2:AE:26:ASN:H	2.16	0.47
2:AG:6:SER:O	2:AG:8:SER:N	2.48	0.47
2:AG:22:THR:CG2	2:AG:73:LEU:CD1	2.93	0.47
2:AH:6:SER:O	2:AH:8:SER:N	2.47	0.47
2:AH:32:GLN:O	2:AH:33:GLN:C	2.53	0.47
2:AH:37:MET:O	2:AH:38:ILE:C	2.53	0.47
2:AJ:6:SER:O	2:AJ:8:SER:N	2.48	0.47
2:AL:100:MET:HG3	2:AL:388:VAL:HG11	1.97	0.47
2:AL:313:PRO:CD	3:BP:279:PRO:CB	2.76	0.47
2:AN:5:TYR:HE2	2:AN:131:ASN:HA	1.77	0.47
2:AN:141:LEU:O	2:AN:146:GLN:HB2	2.13	0.47
3:BA:143:LYS:O	3:BA:144:TYR:O	2.33	0.47
3:BF:150:LEU:O	3:BF:153:SER:N	2.47	0.47
3:BF:168:MET:HE2	3:BF:175:TYR:CD1	2.49	0.47
3:BI:192:THR:HG23	3:BI:220:THR:HA	1.97	0.47
3:BI:204:GLY:HA3	3:BI:207:CYS:O	2.14	0.47
3:BL:258:VAL:CG1	3:BL:260:VAL:HG23	2.45	0.47
3:BM:83:LEU:CD2	3:BM:139:VAL:HG13	2.43	0.47
3:BM:108:THR:CG2	3:BM:109:LYS:H	2.27	0.47
3:BM:128:SER:HA	3:BM:155:LEU:HD11	1.95	0.47
3:BM:170:ILE:HD11	3:BM:239:VAL:CG2	2.44	0.47
3:BO:150:LEU:HD22	3:BP:289:TRP:C	2.32	0.47
3:BQ:108:THR:CG2	3:BQ:109:LYS:H	2.28	0.47
4:BX:599:THR:HG23	4:BX:599:THR:O	2.15	0.47
4:BY:716:PRO:HD2	4:BZ:750:ARG:NH2	2.26	0.47
4:BY:743:ASN:C	4:BY:745:LEU:N	2.68	0.47
4:BY:762:ILE:HA	4:BY:765:ASN:ND2	2.29	0.47
4:BZ:268:ASN:ND2	4:BZ:467:ARG:NH2	2.59	0.47
4:BZ:696:GLU:O	4:BZ:698:PHE:N	2.47	0.47
1:AA:181:LEU:CG	1:AA:182:LEU:H	2.09	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:674:VAL:HG12	1:AA:675:GLU:N	2.29	0.47
1:AA:695:ALA:O	1:AA:696:SER:HB3	2.13	0.47
1:AA:746:GLN:O	1:AA:750:MET:HG3	2.13	0.47
1:AB:254:GLU:HB3	2:AN:69:THR:HB	1.95	0.47
1:AB:658:PRO:HB2	1:AB:661:GLN:CG	2.42	0.47
1:AB:717:MET:HE1	1:AB:830:PRO:CD	2.44	0.47
1:AB:770:SER:O	1:AB:773:SER:N	2.48	0.47
2:AC:100:MET:HG3	2:AC:388:VAL:HG11	1.97	0.47
2:AD:78:VAL:O	2:AD:81:ALA:N	2.41	0.47
2:AD:139:TRP:CD1	2:AD:139:TRP:C	2.88	0.47
2:AD:302:PRO:O	3:BF:282:GLU:CD	2.49	0.47
2:AD:340:LYS:HD3	2:AD:342:MET:HE1	1.97	0.47
2:AE:74:ASP:OD2	2:AE:76:ASN:HB3	2.15	0.47
2:AF:100:MET:HG3	2:AF:388:VAL:HG11	1.97	0.47
2:AG:14:ALA:C	2:AG:16:ASP:H	2.17	0.47
2:AG:78:VAL:O	2:AG:81:ALA:N	2.41	0.47
2:AH:164:PHE:N	3:BK:61:GLY:HA3	2.29	0.47
2:AI:340:LYS:HD3	2:AI:342:MET:HE1	1.97	0.47
2:AJ:111:PRO:HB3	2:AJ:116:LEU:HG	1.97	0.47
2:AJ:150:PHE:O	2:AJ:330:VAL:HG13	2.15	0.47
2:AK:106:ARG:HH22	2:AM:93:ASP:CG	2.18	0.47
2:AM:32:GLN:O	2:AM:33:GLN:C	2.53	0.47
2:AM:35:ASN:O	2:AM:36:GLN:C	2.53	0.47
2:AM:139:TRP:C	2:AM:139:TRP:CD1	2.88	0.47
2:AN:60:ASN:C	2:AN:61:PHE:CD1	2.88	0.47
2:AN:202:PRO:HG3	4:BX:577:ARG:HD3	1.47	0.47
3:BA:106:PHE:HE2	3:BA:303:VAL:CG2	2.27	0.47
3:BA:106:PHE:HE2	3:BA:303:VAL:HG21	1.80	0.47
3:BF:162:GLU:CB	3:BF:253:GLY:O	2.57	0.47
3:BF:170:ILE:HD11	3:BF:239:VAL:CG2	2.44	0.47
3:BF:174:TYR:HE1	3:BF:234:ASN:HB2	1.74	0.47
3:BF:290:LYS:CA	3:BH:150:LEU:HD22	2.45	0.47
3:BG:108:THR:HG23	3:BG:109:LYS:H	1.78	0.47
3:BG:154:GLU:OE1	3:BG:154:GLU:HA	2.14	0.47
3:BG:180:GLU:O	3:BG:180:GLU:CG	2.63	0.47
3:BH:108:THR:CG2	3:BH:109:LYS:H	2.28	0.47
3:BH:108:THR:HG23	3:BH:109:LYS:H	1.78	0.47
3:BH:125:ALA:O	3:BH:128:SER:OG	2.31	0.47
3:BH:170:ILE:HD11	3:BH:239:VAL:CG2	2.44	0.47
3:BH:192:THR:HG23	3:BH:220:THR:HA	1.97	0.47
3:BH:202:THR:HG22	3:BH:202:THR:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:106:PHE:HE2	3:BJ:303:VAL:CG2	2.27	0.47
3:BJ:150:LEU:CB	3:BK:290:LYS:HD3	2.37	0.47
3:BJ:202:THR:O	3:BJ:202:THR:HG22	2.15	0.47
3:BK:174:TYR:CG	3:BK:198:LEU:CD1	2.91	0.47
3:BK:175:TYR:CZ	3:BK:237:LEU:HD22	2.50	0.47
3:BK:180:GLU:O	3:BK:180:GLU:CG	2.63	0.47
3:BK:192:THR:HG23	3:BK:220:THR:HA	1.97	0.47
3:BL:87:THR:HG1	3:BL:122:THR:HG22	1.77	0.47
3:BL:132:GLN:O	3:BL:133:LEU:C	2.52	0.47
3:BL:165:CYS:HB2	3:BL:322:PHE:N	2.29	0.47
3:BL:180:GLU:O	3:BL:180:GLU:CG	2.63	0.47
3:BL:193:ILE:CG2	3:BL:237:LEU:HD11	2.45	0.47
3:BL:290:LYS:CA	3:BN:150:LEU:CD2	2.93	0.47
3:BM:180:GLU:O	3:BM:180:GLU:CG	2.63	0.47
3:BN:106:PHE:HE2	3:BN:303:VAL:CG2	2.27	0.47
3:BN:170:ILE:HD11	3:BN:239:VAL:CG2	2.44	0.47
3:BO:158:LEU:CD2	3:BO:185:ILE:HD13	2.44	0.47
3:BO:192:THR:HG23	3:BO:220:THR:HA	1.97	0.47
3:BO:202:THR:O	3:BO:202:THR:HG22	2.15	0.47
3:BO:222:GLU:HB2	3:BO:225:VAL:CG2	2.45	0.47
3:BO:290:LYS:CA	3:BQ:150:LEU:CD2	2.93	0.47
3:BP:162:GLU:HB3	3:BP:253:GLY:C	2.35	0.47
3:BP:192:THR:HG23	3:BP:220:THR:HA	1.97	0.47
3:BQ:76:PHE:HB3	3:BQ:110:GLY:O	2.14	0.47
3:BQ:261:ILE:HG12	3:BQ:285:MET:HG3	1.89	0.47
4:BX:564:LEU:HD21	4:BX:591:TRP:CH2	2.49	0.47
4:BX:637:SER:OG	4:BX:638:ALA:N	2.47	0.47
4:BX:706:GLN:O	4:BX:707:LYS:C	2.53	0.47
4:BY:347:GLU:C	4:BY:349:SER:N	2.68	0.47
4:BY:347:GLU:O	4:BY:349:SER:N	2.47	0.47
4:BY:710:ASP:CG	4:BY:711:LEU:N	2.68	0.47
4:BZ:2:ALA:O	4:BZ:3:SER:C	2.53	0.47
4:BZ:740:GLN:O	4:BZ:743:ASN:N	2.33	0.47
1:AA:353:LEU:O	1:AA:354:GLN:HB2	2.15	0.47
1:AA:503:VAL:HA	1:AA:505:GLN:HG2	1.96	0.47
1:AA:510:LEU:HA	1:AA:513:LEU:HD12	1.96	0.47
1:AA:588:ILE:CG2	1:AA:589:GLY:H	2.26	0.47
1:AA:742:GLY:O	1:AA:743:ASP:O	2.33	0.47
1:AA:769:SER:O	1:AA:770:SER:C	2.53	0.47
1:AB:127:GLU:OE1	1:AB:151:LYS:HE2	2.15	0.47
1:AB:182:LEU:HD21	1:AB:848:PHE:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:275:PRO:HB2	1:AB:278:ILE:CG1	2.40	0.47
1:AB:281:ASP:O	1:AB:282:VAL:C	2.53	0.47
1:AB:434:THR:O	1:AB:434:THR:CG2	2.57	0.47
2:AG:150:PHE:O	2:AG:330:VAL:HG13	2.15	0.47
2:AG:258:ASN:OD1	4:BZ:582:ARG:HB2	2.15	0.47
2:AH:14:ALA:C	2:AH:16:ASP:H	2.16	0.47
2:AJ:3:VAL:O	2:AJ:4:LEU:C	2.53	0.47
2:AL:123:LYS:HG3	2:AL:124:PHE:CD1	2.50	0.47
2:AM:346:VAL:CG2	2:AM:385:VAL:HG13	2.44	0.47
2:AN:171:PRO:HB2	3:BO:314:SER:OG	2.15	0.47
2:AN:313:PRO:CD	3:BO:279:PRO:CB	2.89	0.47
2:AO:74:ASP:OD2	2:AO:76:ASN:HB3	2.15	0.47
2:AO:78:VAL:O	2:AO:81:ALA:N	2.42	0.47
2:AO:153:HIS:O	2:AO:154:LYS:C	2.52	0.47
2:AO:153:HIS:NE2	2:AO:154:LYS:HD3	2.29	0.47
3:BA:222:GLU:HB2	3:BA:225:VAL:CG2	2.45	0.47
3:BF:193:ILE:CG2	3:BF:237:LEU:HD11	2.45	0.47
3:BG:202:THR:O	3:BG:202:THR:HG22	2.15	0.47
3:BG:222:GLU:HB2	3:BG:225:VAL:CG2	2.45	0.47
3:BG:256:GLU:OE1	3:BG:283:ARG:NH1	2.48	0.47
3:BH:204:GLY:HA3	3:BH:207:CYS:O	2.14	0.47
3:BJ:108:THR:CG2	3:BJ:109:LYS:H	2.28	0.47
3:BJ:174:TYR:HD1	3:BJ:198:LEU:HD12	1.63	0.47
3:BK:204:GLY:HA3	3:BK:207:CYS:O	2.14	0.47
3:BL:192:THR:HG23	3:BL:220:THR:HA	1.97	0.47
3:BM:125:ALA:HB1	3:BM:223:LYS:CG	2.44	0.47
3:BO:143:LYS:HG3	3:BO:292:TRP:HZ2	1.79	0.47
3:BP:204:GLY:HA3	3:BP:207:CYS:O	2.14	0.47
3:BP:313:ARG:HG3	3:BP:316:SER:CB	2.43	0.47
3:BQ:202:THR:HG22	3:BQ:202:THR:O	2.15	0.47
4:BX:16:VAL:CG2	4:BX:17:ASP:N	2.78	0.47
4:BY:564:LEU:HD21	4:BY:591:TRP:CH2	2.50	0.47
4:BY:619:LEU:HD11	4:BY:712:VAL:HG11	1.96	0.47
4:BY:692:ALA:HB3	4:BY:701:ILE:HG22	1.96	0.47
4:BY:740:GLN:O	4:BY:741:ALA:C	2.53	0.47
4:BZ:16:VAL:CG2	4:BZ:17:ASP:N	2.77	0.47
1:AA:122:LEU:HD11	1:AA:201:ASP:CB	2.44	0.47
1:AA:503:VAL:HG12	1:AA:506:LEU:CB	2.45	0.47
1:AB:95:ILE:C	1:AB:97:THR:H	2.18	0.47
1:AB:203:GLU:O	1:AB:207:ILE:HG13	2.14	0.47
1:AB:710:MET:HE1	1:AB:824:LYS:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:720:TYR:HB2	1:AB:802:ILE:O	2.15	0.47
2:AD:1:MET:O	2:AD:2:ASP:C	2.51	0.47
2:AD:75:ALA:HB3	2:AL:76:ASN:HA	1.96	0.47
2:AE:23:LEU:CD2	2:AE:25:SER:H	2.28	0.47
2:AE:100:MET:HG3	2:AE:388:VAL:HG11	1.97	0.47
2:AF:37:MET:O	2:AF:38:ILE:C	2.53	0.47
2:AG:346:VAL:CG2	2:AG:385:VAL:HG13	2.44	0.47
2:AH:74:ASP:OD2	2:AJ:76:ASN:CB	2.62	0.47
2:AI:41:MET:O	2:AI:42:ASN:C	2.54	0.47
2:AI:100:MET:HG3	2:AI:388:VAL:HG11	1.97	0.47
2:AI:246:THR:CG2	3:BL:67:TYR:CZ	2.90	0.47
2:AJ:61:PHE:N	2:AJ:61:PHE:CD1	2.82	0.47
2:AK:99:GLU:HG3	2:AK:99:GLU:O	2.14	0.47
2:AK:346:VAL:CG2	2:AK:385:VAL:HG13	2.44	0.47
2:AL:34:PHE:O	2:AL:37:MET:HB3	2.15	0.47
2:AM:150:PHE:O	2:AM:330:VAL:HG13	2.15	0.47
2:AN:32:GLN:O	2:AN:33:GLN:C	2.53	0.47
2:AO:346:VAL:CG2	2:AO:385:VAL:HG13	2.44	0.47
3:BA:193:ILE:CG2	3:BA:237:LEU:HD11	2.45	0.47
3:BA:256:GLU:OE1	3:BA:283:ARG:NH1	2.48	0.47
3:BG:67:TYR:O	3:BG:69:ASN:N	2.47	0.47
3:BH:193:ILE:CG2	3:BH:237:LEU:HD11	2.45	0.47
3:BI:108:THR:CG2	3:BI:109:LYS:H	2.27	0.47
3:BI:180:GLU:O	3:BI:180:GLU:CG	2.63	0.47
3:BJ:168:MET:CE	3:BJ:175:TYR:CD1	2.98	0.47
3:BJ:175:TYR:CZ	3:BJ:237:LEU:HD22	2.50	0.47
3:BK:202:THR:HG22	3:BK:202:THR:O	2.15	0.47
3:BK:256:GLU:OE1	3:BK:283:ARG:NH1	2.48	0.47
3:BK:306:ILE:O	3:BK:310:MET:HE2	2.15	0.47
3:BN:108:THR:CG2	3:BN:109:LYS:H	2.28	0.47
3:BN:130:ASP:N	3:BN:131:PRO:HD3	2.30	0.47
3:BN:202:THR:HG22	3:BN:202:THR:O	2.15	0.47
3:BO:106:PHE:HE2	3:BO:303:VAL:CG2	2.27	0.47
3:BO:256:GLU:OE1	3:BO:283:ARG:NH1	2.48	0.47
3:BO:256:GLU:HB2	3:BO:312:LYS:O	2.15	0.47
3:BO:268:VAL:CG2	3:BP:266:SER:HA	2.44	0.47
4:BX:473:LEU:CD1	4:BY:262:TRP:HZ2	2.28	0.47
4:BX:525:LEU:CD2	4:BX:642:LYS:HB2	2.44	0.47
4:BY:2:ALA:HB3	4:BY:635:ASP:CA	2.44	0.47
4:BY:14:TYR:CD1	4:BY:15:THR:N	2.83	0.47
4:BY:42:GLN:HG3	4:BZ:329:ASN:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:261:LEU:HD13	4:BY:478:ASP:CB	2.40	0.47
4:BY:579:ALA:O	4:BY:580:SER:CB	2.62	0.47
4:BY:672:ALA:CB	4:BY:685:GLY:HA2	2.44	0.47
4:BZ:516:GLN:NE2	4:BZ:516:GLN:H	2.13	0.47
4:BZ:520:LEU:HG	4:BZ:520:LEU:O	2.14	0.47
4:BZ:619:LEU:O	4:BZ:623:GLU:HG2	2.15	0.47
4:BZ:644:LYS:O	4:BZ:646:ASP:N	2.48	0.47
1:AA:494:ASN:CG	1:AA:495:ASP:H	2.19	0.47
1:AA:710:MET:HE1	1:AA:824:LYS:HE2	1.97	0.47
1:AA:804:SER:HB2	1:AA:810:TYR:HB2	1.97	0.47
1:AA:853:ASP:O	1:AA:854:LEU:CB	2.63	0.47
1:AB:314:PHE:HD1	1:AB:314:PHE:H	1.61	0.47
1:AB:325:ASN:O	1:AB:328:LEU:HB3	2.14	0.47
1:AB:353:LEU:O	1:AB:354:GLN:C	2.53	0.47
1:AB:415:PRO:O	1:AB:417:ASP:N	2.48	0.47
1:AB:437:TYR:CD2	1:AB:443:GLN:HB2	2.50	0.47
1:AB:443:GLN:C	1:AB:445:MET:H	2.18	0.47
1:AB:526:LYS:HG3	1:AB:527:ARG:N	2.30	0.47
2:AD:6:SER:O	2:AD:8:SER:N	2.48	0.47
2:AD:310:ASN:HB2	3:BH:180:GLU:CD	2.34	0.47
2:AE:241:ALA:HB1	3:BF:59:ILE:CG2	2.36	0.47
2:AG:164:PHE:N	3:BJ:61:GLY:HA3	2.27	0.47
2:AH:100:MET:HG3	2:AH:388:VAL:HG11	1.97	0.47
2:AH:340:LYS:HD3	2:AH:342:MET:HE1	1.97	0.47
2:AH:346:VAL:CG2	2:AH:385:VAL:HG13	2.44	0.47
2:AI:3:VAL:O	2:AI:4:LEU:C	2.53	0.47
2:AI:6:SER:O	2:AI:8:SER:N	2.48	0.47
2:AI:32:GLN:O	2:AI:33:GLN:C	2.53	0.47
2:AK:23:LEU:CD2	2:AK:25:SER:H	2.28	0.47
2:AK:60:ASN:C	2:AK:61:PHE:CD1	2.88	0.47
2:AN:164:PHE:O	3:BO:61:GLY:CA	2.62	0.47
2:AO:1:MET:HG3	2:AO:2:ASP:N	2.29	0.47
2:AO:153:HIS:O	2:AO:337:ASP:HB2	2.15	0.47
3:BF:154:GLU:CG	3:BG:290:LYS:HZ3	2.24	0.47
3:BH:154:GLU:HA	3:BH:154:GLU:OE1	2.14	0.47
3:BH:306:ILE:O	3:BH:310:MET:HE2	2.15	0.47
3:BJ:257:ASN:ND2	3:BJ:313:ARG:CG	2.76	0.47
3:BM:268:VAL:CG2	3:BN:266:SER:HA	2.45	0.47
3:BN:106:PHE:HE2	3:BN:303:VAL:HG21	1.80	0.47
3:BN:222:GLU:HB2	3:BN:225:VAL:CG2	2.45	0.47
3:BO:127:PHE:CD2	3:BO:155:LEU:CD2	2.64	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BO:128:SER:OG	3:BO:224:LEU:CB	2.63	0.47
3:BO:142:MET:SD	3:BO:152:MET:HE3	2.54	0.47
3:BO:168:MET:CE	3:BO:175:TYR:CD1	2.98	0.47
3:BP:144:TYR:N	3:BP:263:VAL:O	2.42	0.47
3:BP:162:GLU:OE2	3:BP:315:ARG:HG2	2.15	0.47
4:BX:72:THR:HB	4:BX:333:LEU:CD1	2.25	0.47
4:BX:287:LEU:HD22	4:BX:289:TYR:HE1	1.79	0.47
4:BX:717:VAL:CG1	4:BX:718:ILE:H	2.20	0.47
4:BY:617:ARG:HE	4:BY:620:ARG:HH21	1.59	0.47
4:BY:618:ARG:HG2	4:BY:618:ARG:NH1	2.25	0.47
4:BY:754:GLU:O	4:BY:757:ASN:N	2.47	0.47
4:BZ:658:ASP:O	4:BZ:661:THR:N	2.48	0.47
1:AA:111:ILE:O	1:AA:111:ILE:CG2	2.63	0.46
1:AA:151:LYS:O	1:AA:152:ARG:CB	2.63	0.46
1:AA:413:VAL:O	1:AA:414:VAL:C	2.53	0.46
1:AA:492:VAL:CG1	1:AA:558:MET:CE	2.93	0.46
1:AA:676:ILE:O	1:AA:680:ASP:HB2	2.15	0.46
1:AA:763:LEU:HA	1:AA:764:PRO:HD3	1.72	0.46
1:AA:794:THR:HG22	1:AA:794:THR:O	2.16	0.46
1:AB:409:TRP:CZ3	1:AB:413:VAL:HG23	2.50	0.46
1:AB:442:MET:CG	1:AB:443:GLN:N	2.75	0.46
1:AB:497:ILE:O	1:AB:498:ARG:C	2.53	0.46
1:AB:549:LEU:HD12	1:AB:549:LEU:HA	1.70	0.46
1:AB:641:ILE:H	1:AB:641:ILE:HG13	1.38	0.46
1:AB:727:LEU:O	1:AB:728:ASP:HB3	2.16	0.46
2:AC:32:GLN:O	2:AC:33:GLN:C	2.53	0.46
2:AC:34:PHE:O	2:AC:37:MET:HB3	2.15	0.46
2:AC:299:ASN:OD1	3:BH:71:THR:HB	2.13	0.46
2:AD:111:PRO:HB3	2:AD:116:LEU:HG	1.97	0.46
2:AE:1:MET:O	2:AE:2:ASP:C	2.53	0.46
2:AF:139:TRP:CD1	2:AF:139:TRP:C	2.88	0.46
2:AJ:32:GLN:O	2:AJ:33:GLN:C	2.53	0.46
2:AJ:255:ARG:NH2	3:BN:67:TYR:CE1	2.81	0.46
2:AL:3:VAL:O	2:AL:4:LEU:C	2.53	0.46
2:AL:163:SER:OG	3:BP:61:GLY:CA	2.59	0.46
2:AN:1:MET:O	2:AN:2:ASP:C	2.53	0.46
2:AN:69:THR:O	2:AN:70:LEU:CB	2.62	0.46
3:BG:108:THR:CG2	3:BG:109:LYS:H	2.28	0.46
3:BI:202:THR:O	3:BI:202:THR:HG22	2.15	0.46
3:BJ:106:PHE:HE2	3:BJ:303:VAL:HG21	1.80	0.46
3:BL:108:THR:CG2	3:BL:109:LYS:H	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:175:TYR:CZ	3:BM:237:LEU:HD22	2.49	0.46
3:BN:154:GLU:OE1	3:BN:154:GLU:HA	2.14	0.46
3:BO:162:GLU:OE1	3:BO:313:ARG:NH2	2.45	0.46
3:BQ:125:ALA:HB1	3:BQ:223:LYS:HB2	1.98	0.46
3:BQ:193:ILE:CG2	3:BQ:237:LEU:HD11	2.45	0.46
3:BQ:199:ASN:HD21	3:BQ:201:GLN:HG2	1.81	0.46
4:BX:7:ARG:HD2	4:BX:625:ALA:CA	2.44	0.46
4:BX:593:ASP:O	4:BX:596:THR:N	2.48	0.46
4:BX:641:LEU:HB3	4:BX:645:ILE:CD1	2.45	0.46
4:BX:755:PHE:CD2	4:BX:763:ILE:CD1	2.98	0.46
4:BY:486:ASN:CG	4:BY:486:ASN:O	2.52	0.46
4:BZ:637:SER:HB2	4:BZ:667:PHE:HD2	1.80	0.46
4:BZ:710:ASP:CG	4:BZ:711:LEU:N	2.68	0.46
1:AB:442:MET:CG	1:AB:443:GLN:H	2.21	0.46
1:AB:509:ALA:O	1:AB:513:LEU:CG	2.53	0.46
1:AB:548:ARG:HH12	1:AB:878:ASN:H	1.58	0.46
1:AB:633:LEU:O	1:AB:635:GLN:N	2.46	0.46
1:AB:645:PHE:O	1:AB:649:LEU:HG	2.14	0.46
2:AE:5:TYR:HE2	2:AE:131:ASN:HA	1.77	0.46
2:AF:246:THR:CG2	3:BI:67:TYR:CE2	2.97	0.46
2:AG:241:ALA:HB3	3:BJ:59:ILE:HG21	1.78	0.46
2:AH:1:MET:O	2:AH:2:ASP:C	2.53	0.46
2:AH:60:ASN:C	2:AH:61:PHE:CD1	2.88	0.46
2:AI:37:MET:O	2:AI:38:ILE:C	2.52	0.46
2:AI:123:LYS:HG3	2:AI:124:PHE:CD1	2.50	0.46
2:AK:54:LEU:HD12	2:AK:55:PRO:CD	2.44	0.46
2:AL:41:MET:O	2:AL:42:ASN:C	2.53	0.46
2:AN:69:THR:O	2:AN:70:LEU:HB2	2.15	0.46
3:BF:106:PHE:HE2	3:BF:303:VAL:HG21	1.80	0.46
3:BF:192:THR:HG23	3:BF:220:THR:HA	1.97	0.46
3:BF:256:GLU:OE1	3:BF:283:ARG:NH1	2.48	0.46
3:BF:315:ARG:NE	3:BF:317:LEU:HB2	2.30	0.46
3:BG:176:GLN:O	3:BG:176:GLN:HG3	2.14	0.46
3:BH:106:PHE:HE2	3:BH:303:VAL:HG21	1.80	0.46
3:BH:256:GLU:OE1	3:BH:283:ARG:NH1	2.48	0.46
3:BI:157:ASP:HA	3:BI:271:ILE:HG12	1.96	0.46
3:BI:230:VAL:HG21	3:BJ:105:LEU:HD22	1.97	0.46
3:BI:290:LYS:CA	3:BK:150:LEU:CD2	2.92	0.46
3:BJ:168:MET:HE1	3:BJ:175:TYR:CD1	2.50	0.46
3:BK:175:TYR:HE1	3:BK:237:LEU:HD22	1.79	0.46
3:BK:193:ILE:CG2	3:BK:237:LEU:HD11	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:275:PRO:HD2	3:BK:276:THR:N	2.31	0.46
3:BL:162:GLU:HB3	3:BL:253:GLY:O	2.15	0.46
3:BM:106:PHE:HE2	3:BM:303:VAL:HG21	1.80	0.46
3:BN:161:ASN:O	3:BN:255:ARG:CD	2.63	0.46
3:BO:150:LEU:HD21	3:BP:290:LYS:HG2	1.98	0.46
3:BP:161:ASN:O	3:BP:255:ARG:NE	2.47	0.46
3:BP:193:ILE:CG2	3:BP:237:LEU:HD11	2.45	0.46
3:BP:255:ARG:NH1	3:BP:313:ARG:NH1	2.63	0.46
3:BP:289:TRP:HZ3	3:BP:292:TRP:NE1	2.13	0.46
3:BQ:170:ILE:HD11	3:BQ:239:VAL:CG2	2.44	0.46
3:BQ:180:GLU:O	3:BQ:180:GLU:CG	2.63	0.46
4:BX:407:ALA:HB3	4:BX:427:ARG:HE	1.80	0.46
4:BX:636:ILE:O	4:BX:640:VAL:HG23	2.16	0.46
4:BY:381:THR:O	4:BY:457:ASN:HB2	2.15	0.46
4:BY:540:ALA:O	4:BY:541:ALA:C	2.53	0.46
4:BY:643:THR:O	4:BY:646:ASP:HB3	2.15	0.46
4:BY:677:ASN:ND2	4:BY:711:LEU:HD11	2.24	0.46
4:BY:734:TYR:OH	4:BY:761:PRO:CB	2.59	0.46
4:BZ:640:VAL:HG13	4:BZ:644:LYS:HZ2	1.79	0.46
4:BZ:654:ASN:OD1	4:BZ:654:ASN:N	2.47	0.46
4:BZ:688:GLY:O	4:BZ:689:ARG:CB	2.58	0.46
4:BZ:740:GLN:O	4:BZ:741:ALA:C	2.54	0.46
1:AA:100:PRO:HB2	1:AA:103:SER:HB2	1.98	0.46
1:AA:197:GLY:O	1:AA:198:LYS:C	2.53	0.46
1:AA:383:ILE:O	1:AA:384:ALA:C	2.52	0.46
1:AA:465:ASN:O	1:AA:469:ALA:HB2	2.16	0.46
1:AB:180:TYR:CD1	1:AB:181:LEU:N	2.81	0.46
1:AB:437:TYR:CD2	1:AB:443:GLN:CB	2.98	0.46
1:AB:492:VAL:HB	1:AB:558:MET:SD	2.55	0.46
1:AB:857:PHE:N	1:AB:857:PHE:CD1	2.83	0.46
2:AC:3:VAL:O	2:AC:4:LEU:C	2.53	0.46
2:AF:6:SER:O	2:AF:8:SER:N	2.48	0.46
2:AG:3:VAL:O	2:AG:4:LEU:C	2.53	0.46
2:AG:164:PHE:H	3:BJ:61:GLY:CA	2.25	0.46
2:AI:310:ASN:HB3	3:BL:180:GLU:CD	2.36	0.46
2:AM:6:SER:O	2:AM:8:SER:N	2.48	0.46
2:AN:35:ASN:O	2:AN:36:GLN:C	2.54	0.46
3:BA:170:ILE:HD11	3:BA:239:VAL:CG2	2.44	0.46
3:BA:202:THR:O	3:BA:202:THR:HG22	2.15	0.46
3:BF:68:ALA:O	3:BF:69:ASN:C	2.54	0.46
3:BG:106:PHE:HE2	3:BG:303:VAL:HG21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:104:GLN:OE1	3:BI:104:GLN:HA	2.16	0.46
3:BI:193:ILE:CG2	3:BI:237:LEU:HD11	2.45	0.46
3:BI:289:TRP:CD1	3:BI:289:TRP:C	2.88	0.46
3:BJ:172:LEU:CB	3:BJ:173:TYR:CE2	2.98	0.46
3:BJ:180:GLU:O	3:BJ:180:GLU:CG	2.63	0.46
3:BK:154:GLU:OE1	3:BK:154:GLU:HA	2.14	0.46
3:BL:165:CYS:HB2	3:BL:322:PHE:H	1.80	0.46
3:BL:239:VAL:HG12	3:BL:240:THR:N	2.31	0.46
3:BL:256:GLU:OE1	3:BL:283:ARG:NH1	2.48	0.46
3:BM:175:TYR:HH	3:BM:237:LEU:HD23	1.79	0.46
3:BN:192:THR:HG23	3:BN:220:THR:HA	1.97	0.46
3:BO:137:TYR:HE2	3:BO:311:SER:HA	1.80	0.46
3:BP:108:THR:HG23	3:BP:109:LYS:H	1.78	0.46
3:BP:202:THR:O	3:BP:202:THR:HG22	2.15	0.46
3:BP:222:GLU:HB2	3:BP:225:VAL:CG2	2.45	0.46
3:BP:239:VAL:HG12	3:BP:240:THR:N	2.31	0.46
3:BP:275:PRO:HD2	3:BP:276:THR:N	2.31	0.46
3:BQ:192:THR:HG23	3:BQ:220:THR:HA	1.97	0.46
4:BX:9:LEU:CD2	4:BX:549:MET:HE3	2.30	0.46
4:BX:143:VAL:HG13	4:BX:152:TYR:HB3	1.98	0.46
4:BX:710:ASP:CG	4:BX:711:LEU:N	2.68	0.46
4:BY:355:TYR:CD2	4:BY:424:LEU:HD12	2.47	0.46
4:BY:640:VAL:HG13	4:BY:644:LYS:HZ2	1.79	0.46
4:BZ:443:ARG:C	4:BZ:444:VAL:CG2	2.83	0.46
4:BZ:597:GLN:O	4:BZ:599:THR:HG23	2.15	0.46
4:BZ:648:SER:O	4:BZ:649:THR:HB	2.15	0.46
1:AA:141:GLU:O	1:AA:142:LEU:CB	2.63	0.46
1:AA:241:TYR:HA	1:AA:242:PRO:HD3	1.60	0.46
1:AA:250:HIS:NE2	1:AA:840:HIS:CB	2.78	0.46
1:AA:268:ASP:O	1:AA:272:ASN:CG	2.53	0.46
1:AA:556:THR:O	1:AA:558:MET:N	2.48	0.46
1:AA:707:TYR:CZ	1:AA:754:ASN:HA	2.50	0.46
1:AA:738:LEU:HD11	1:AA:743:ASP:HB2	1.97	0.46
1:AB:94:THR:HG23	1:AB:658:PRO:HG3	1.98	0.46
1:AB:190:ASN:O	1:AB:192:ASN:N	2.48	0.46
1:AB:791:LYS:HB3	1:AB:792:VAL:H	1.57	0.46
1:AB:800:TYR:O	1:AB:802:ILE:N	2.48	0.46
2:AG:34:PHE:O	2:AG:37:MET:HB3	2.16	0.46
2:AH:34:PHE:O	2:AH:37:MET:HB3	2.16	0.46
2:AI:34:PHE:O	2:AI:37:MET:HB3	2.15	0.46
2:AI:139:TRP:CD1	2:AI:139:TRP:C	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AJ:346:VAL:CG2	2:AJ:385:VAL:HG13	2.44	0.46
2:AK:1:MET:O	2:AK:2:ASP:C	2.53	0.46
2:AK:5:TYR:HE2	2:AK:131:ASN:HA	1.78	0.46
2:AM:1:MET:O	2:AM:2:ASP:C	2.51	0.46
2:AO:123:LYS:HG3	2:AO:124:PHE:CE1	2.50	0.46
3:BG:68:ALA:O	3:BG:69:ASN:O	2.32	0.46
3:BG:199:ASN:HD21	3:BG:201:GLN:HG2	1.81	0.46
3:BH:123:ASP:OD1	3:BH:126:SER:N	2.40	0.46
3:BH:180:GLU:O	3:BH:180:GLU:CG	2.63	0.46
3:BI:170:ILE:CD1	3:BI:239:VAL:HG23	2.43	0.46
3:BI:289:TRP:HH2	3:BI:292:TRP:HE1	1.54	0.46
3:BJ:239:VAL:HG12	3:BJ:240:THR:N	2.31	0.46
3:BJ:275:PRO:HD2	3:BJ:276:THR:N	2.31	0.46
3:BM:108:THR:HG23	3:BM:109:LYS:H	1.78	0.46
3:BM:202:THR:O	3:BM:202:THR:HG22	2.15	0.46
3:BM:205:ILE:O	3:BM:205:ILE:HG23	2.16	0.46
3:BN:148:LEU:HD22	3:BN:151:ASP:OD2	2.16	0.46
3:BN:164:LEU:O	3:BN:249:CYS:HA	2.16	0.46
3:BN:239:VAL:HG12	3:BN:240:THR:N	2.31	0.46
3:BO:175:TYR:CZ	3:BO:237:LEU:HD22	2.50	0.46
3:BQ:144:TYR:N	3:BQ:263:VAL:O	2.44	0.46
3:BQ:282:GLU:OE1	3:BQ:282:GLU:HA	2.16	0.46
4:BY:578:GLY:C	4:BY:580:SER:N	2.65	0.46
4:BY:615:ILE:O	4:BY:619:LEU:HD12	2.16	0.46
4:BZ:564:LEU:HD21	4:BZ:591:TRP:CH2	2.49	0.46
4:BZ:637:SER:OG	4:BZ:638:ALA:N	2.48	0.46
4:BZ:645:ILE:HG22	4:BZ:645:ILE:O	2.16	0.46
1:AA:154:THR:O	1:AA:155:LEU:C	2.53	0.46
1:AA:317:LEU:CA	1:AA:652:PHE:HE2	2.29	0.46
1:AA:612:SER:O	1:AA:616:GLU:HB2	2.15	0.46
1:AA:645:PHE:HD2	1:AA:646:LEU:HD23	1.80	0.46
1:AA:725:ARG:HH21	1:AA:829:ILE:CD1	2.24	0.46
1:AA:785:GLN:O	1:AA:786:ILE:C	2.54	0.46
1:AA:876:ILE:O	1:AA:877:MET:HB2	2.16	0.46
1:AB:93:LYS:O	1:AB:656:ARG:HB3	2.15	0.46
1:AB:270:ILE:HD11	1:AB:292:LEU:HD11	1.97	0.46
1:AB:345:GLN:HG3	1:AB:349:MET:CE	2.46	0.46
1:AB:360:ILE:N	1:AB:360:ILE:HD12	2.30	0.46
1:AB:470:ASN:O	1:AB:471:TRP:C	2.54	0.46
2:AD:73:LEU:N	2:AD:73:LEU:HD23	2.31	0.46
2:AH:23:LEU:CD2	2:AH:25:SER:H	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AJ:54:LEU:HA	2:AJ:55:PRO:HD3	1.82	0.46
2:AK:37:MET:O	2:AK:38:ILE:C	2.53	0.46
2:AK:268:GLN:CD	4:BX:700:GLU:HB3	2.35	0.46
2:AL:6:SER:O	2:AL:8:SER:N	2.49	0.46
3:BA:180:GLU:O	3:BA:180:GLU:CG	2.63	0.46
3:BA:199:ASN:HD21	3:BA:201:GLN:HG2	1.81	0.46
3:BA:239:VAL:HG12	3:BA:240:THR:N	2.31	0.46
3:BF:175:TYR:O	3:BF:234:ASN:HA	2.15	0.46
3:BF:239:VAL:HG12	3:BF:240:THR:N	2.31	0.46
3:BF:301:ASP:OD1	3:BF:301:ASP:O	2.34	0.46
3:BG:192:THR:HG23	3:BG:220:THR:HA	1.97	0.46
3:BH:178:THR:N	3:BH:182:ASN:HD22	2.13	0.46
3:BH:239:VAL:HG12	3:BH:240:THR:N	2.31	0.46
3:BI:222:GLU:HB2	3:BI:225:VAL:CG2	2.45	0.46
3:BK:55:ILE:O	3:BK:56:ASN:CB	2.64	0.46
3:BK:125:ALA:HB1	3:BK:223:LYS:CG	2.45	0.46
3:BK:239:VAL:HG12	3:BK:240:THR:N	2.31	0.46
3:BK:271:ILE:CG1	3:BK:272:THR:N	2.30	0.46
3:BL:170:ILE:HG23	3:BL:237:LEU:HB3	1.97	0.46
3:BL:282:GLU:HA	3:BL:282:GLU:OE1	2.16	0.46
3:BM:268:VAL:CB	3:BN:266:SER:CA	2.91	0.46
3:BO:193:ILE:CG2	3:BO:237:LEU:HD11	2.45	0.46
3:BO:282:GLU:HA	3:BO:282:GLU:OE1	2.16	0.46
3:BO:290:LYS:HA	3:BQ:150:LEU:HD22	1.97	0.46
3:BP:128:SER:HB3	3:BP:155:LEU:CD1	2.05	0.46
3:BP:186:SER:HB3	3:BP:246:ILE:HG13	1.98	0.46
4:BX:381:THR:O	4:BX:457:ASN:HB2	2.15	0.46
4:BX:624:MET:SD	4:BX:632:ASN:CB	2.99	0.46
4:BY:29:LYS:HD3	4:BZ:26:GLY:HA2	1.97	0.46
4:BY:349:SER:HB2	4:BY:430:LEU:HD12	1.97	0.46
4:BY:419:VAL:HG23	4:BZ:335:THR:HG21	1.96	0.46
4:BY:681:VAL:HB	4:BY:693:TYR:CG	2.46	0.46
4:BY:704:ASP:C	4:BY:706:GLN:N	2.68	0.46
4:BY:760:ASN:N	4:BY:761:PRO:CD	2.78	0.46
1:AA:421:ARG:HB3	1:AB:523:VAL:HG21	1.96	0.46
1:AB:159:ASP:OD2	1:AB:761:GLY:CA	2.63	0.46
1:AB:326:TYR:HD1	1:AB:384:ALA:HB1	1.79	0.46
2:AC:6:SER:O	2:AC:8:SER:N	2.48	0.46
2:AC:41:MET:O	2:AC:42:ASN:C	2.54	0.46
2:AF:3:VAL:O	2:AF:4:LEU:C	2.53	0.46
2:AF:38:ILE:O	2:AF:42:ASN:ND2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AH:74:ASP:OD2	2:AH:76:ASN:HB3	2.15	0.46
2:AK:106:ARG:HG3	2:AL:147:ARG:HD2	1.97	0.46
2:AL:163:SER:OG	3:BP:62:SER:HA	2.16	0.46
2:AM:34:PHE:O	2:AM:37:MET:HB3	2.16	0.46
2:AN:23:LEU:CD2	2:AN:25:SER:H	2.28	0.46
2:AN:37:MET:O	2:AN:38:ILE:C	2.53	0.46
2:AO:24:TYR:HB2	2:AO:71:LEU:HD12	1.97	0.46
3:BA:179:ASP:C	3:BA:181:ALA:H	2.19	0.46
3:BF:205:ILE:HG23	3:BF:205:ILE:O	2.16	0.46
3:BF:275:PRO:HD2	3:BF:276:THR:N	2.31	0.46
3:BG:317:LEU:HD21	3:BO:325:ARG:C	2.36	0.46
3:BH:205:ILE:HG23	3:BH:205:ILE:O	2.16	0.46
3:BH:282:GLU:OE1	3:BH:282:GLU:HA	2.16	0.46
3:BI:106:PHE:HE2	3:BI:303:VAL:HG21	1.80	0.46
3:BI:183:LYS:O	3:BI:249:CYS:N	2.33	0.46
3:BJ:148:LEU:HD22	3:BJ:151:ASP:OD2	2.16	0.46
3:BJ:268:VAL:HG11	3:BK:266:SER:HA	1.97	0.46
3:BK:144:TYR:CD1	3:BK:265:GLY:HA3	2.50	0.46
3:BK:282:GLU:OE1	3:BK:282:GLU:HA	2.16	0.46
3:BL:109:LYS:HZ1	4:BX:496:ARG:NH2	2.11	0.46
3:BM:75:THR:CG2	3:BM:79:SER:OG	2.62	0.46
3:BM:125:ALA:HB1	3:BM:223:LYS:HB2	1.98	0.46
3:BM:282:GLU:OE1	3:BM:282:GLU:HA	2.16	0.46
3:BN:316:SER:OG	3:BP:323:TYR:CE2	2.64	0.46
3:BO:208:LEU:CD1	4:BY:480:TYR:CE1	2.96	0.46
3:BO:301:ASP:OD1	3:BO:301:ASP:O	2.34	0.46
3:BP:205:ILE:HG23	3:BP:205:ILE:O	2.16	0.46
3:BP:256:GLU:OE1	3:BP:283:ARG:NH1	2.48	0.46
3:BP:274:ASP:HB3	3:BQ:302:TYR:CZ	2.50	0.46
4:BX:498:LEU:HD12	4:BX:498:LEU:O	2.15	0.46
4:BX:500:GLU:HG3	4:BX:501:LEU:N	2.29	0.46
4:BX:505:PHE:CE1	4:BX:659:ILE:HD11	2.50	0.46
4:BX:750:ARG:O	4:BX:751:VAL:C	2.54	0.46
4:BY:2:ALA:O	4:BY:3:SER:C	2.52	0.46
4:BY:525:LEU:O	4:BY:525:LEU:HG	2.15	0.46
4:BY:538:ILE:HD13	4:BY:538:ILE:HA	1.81	0.46
4:BY:694:ARG:C	4:BY:696:GLU:N	2.68	0.46
4:BZ:9:LEU:HB3	4:BZ:549:MET:HE1	1.98	0.46
4:BZ:305:TYR:HE1	4:BZ:307:ARG:HG3	1.77	0.46
4:BZ:593:ASP:HA	4:BZ:596:THR:OG1	2.15	0.46
1:AA:124:ARG:CZ	1:AA:203:GLU:CB	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:332:VAL:CG1	1:AA:557:LEU:HD21	2.46	0.46
1:AA:548:ARG:HH11	1:AA:877:MET:N	2.13	0.46
1:AB:283:ASN:O	1:AB:863:VAL:HG23	2.15	0.46
1:AB:542:GLN:O	1:AB:543:LEU:C	2.53	0.46
1:AB:692:ILE:O	1:AB:695:ALA:HB3	2.16	0.46
1:AB:772:ILE:O	1:AB:773:SER:C	2.54	0.46
1:AB:836:ARG:H	1:AB:836:ARG:HG2	1.59	0.46
2:AC:145:ARG:HD3	2:AN:143:ASN:HA	1.98	0.46
2:AC:310:ASN:HB2	3:BG:180:GLU:CD	2.35	0.46
2:AD:34:PHE:O	2:AD:37:MET:HB3	2.16	0.46
2:AE:61:PHE:CD1	2:AE:61:PHE:N	2.84	0.46
2:AE:238:ILE:HG23	3:BF:63:MET:HE3	1.93	0.46
2:AG:105:GLN:NE2	2:AG:359:PRO:O	2.47	0.46
2:AI:99:GLU:HG3	2:AI:99:GLU:O	2.16	0.46
2:AK:100:MET:HG3	2:AK:388:VAL:HG11	1.97	0.46
2:AK:106:ARG:HG2	2:AK:107:ASN:HB2	1.97	0.46
2:AM:3:VAL:O	2:AM:4:LEU:C	2.53	0.46
2:AO:32:GLN:O	2:AO:33:GLN:C	2.53	0.46
2:AO:106:ARG:HG2	2:AO:107:ASN:H	1.80	0.46
3:BA:301:ASP:OD1	3:BA:301:ASP:O	2.34	0.46
3:BF:319:SER:O	3:BF:320:ALA:C	2.54	0.46
3:BG:104:GLN:OE1	3:BG:104:GLN:HA	2.16	0.46
3:BG:158:LEU:CD2	3:BG:185:ILE:HD13	2.44	0.46
3:BG:204:GLY:HA3	3:BG:207:CYS:O	2.14	0.46
3:BG:272:THR:HG21	3:BG:277:THR:HB	1.97	0.46
3:BJ:125:ALA:HB1	3:BJ:223:LYS:CG	2.45	0.46
3:BJ:322:PHE:HD2	3:BL:313:ARG:CG	2.16	0.46
3:BL:202:THR:O	3:BL:202:THR:HG22	2.15	0.46
3:BL:310:MET:HG3	3:BL:311:SER:N	2.30	0.46
3:BM:192:THR:HG23	3:BM:220:THR:HA	1.97	0.46
3:BM:272:THR:HG21	3:BM:277:THR:CB	2.46	0.46
3:BN:180:GLU:O	3:BN:180:GLU:CG	2.63	0.46
3:BN:256:GLU:CB	3:BN:314:SER:OG	2.64	0.46
3:BO:104:GLN:OE1	3:BO:104:GLN:HA	2.16	0.46
3:BO:310:MET:O	3:BO:311:SER:CB	2.63	0.46
3:BP:108:THR:CG2	3:BP:109:LYS:H	2.28	0.46
3:BQ:83:LEU:CD2	3:BQ:139:VAL:HG13	2.43	0.46
4:BX:30:THR:O	4:BY:34:THR:N	2.45	0.46
4:BX:265:MET:SD	4:BY:255:VAL:HG22	2.56	0.46
4:BX:568:LEU:O	4:BX:569:SER:C	2.53	0.46
4:BX:662:GLU:HA	4:BX:665:GLU:CD	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:696:GLU:O	4:BX:698:PHE:N	2.49	0.46
4:BZ:516:GLN:NE2	4:BZ:516:GLN:N	2.64	0.46
1:AA:583:SER:O	1:AA:584:LEU:C	2.54	0.46
1:AA:591:ALA:O	1:AA:877:MET:SD	2.74	0.46
1:AA:703:VAL:HG21	1:AA:797:PRO:HB3	1.97	0.46
1:AA:772:ILE:O	1:AA:773:SER:C	2.53	0.46
1:AA:815:TYR:H	1:AA:815:TYR:HD1	1.63	0.46
1:AA:846:LEU:HG	1:AA:847:THR:N	2.30	0.46
1:AA:865:PRO:O	1:AA:867:ASN:N	2.49	0.46
1:AB:275:PRO:C	1:AB:277:ARG:N	2.68	0.46
1:AB:543:LEU:O	1:AB:544:VAL:C	2.53	0.46
2:AC:99:GLU:HG3	2:AC:99:GLU:O	2.16	0.46
2:AD:150:PHE:O	2:AD:330:VAL:HG13	2.15	0.46
2:AK:32:GLN:O	2:AK:33:GLN:C	2.53	0.46
2:AL:139:TRP:CD1	2:AL:139:TRP:C	2.88	0.46
3:BF:104:GLN:HA	3:BF:104:GLN:OE1	2.16	0.46
3:BF:129:VAL:C	3:BF:131:PRO:HD3	2.35	0.46
3:BF:159:ILE:CG1	3:BF:160:LEU:H	2.28	0.46
3:BF:180:GLU:O	3:BF:180:GLU:CG	2.63	0.46
3:BF:288:ASN:ND2	3:BH:153:SER:HB2	2.28	0.46
3:BG:173:TYR:HB2	3:BG:175:TYR:CZ	2.51	0.46
3:BH:162:GLU:N	3:BH:253:GLY:O	2.45	0.46
3:BH:186:SER:HB3	3:BH:246:ILE:HG13	1.98	0.46
3:BI:186:SER:HB3	3:BI:246:ILE:HG13	1.98	0.46
3:BJ:170:ILE:HD11	3:BJ:239:VAL:CG2	2.44	0.46
3:BJ:282:GLU:OE1	3:BJ:282:GLU:HA	2.16	0.46
3:BK:186:SER:HB3	3:BK:246:ILE:HG13	1.98	0.46
3:BM:170:ILE:CD1	3:BM:239:VAL:HG23	2.43	0.46
3:BM:239:VAL:HG12	3:BM:240:THR:N	2.31	0.46
3:BN:256:GLU:OE1	3:BN:283:ARG:NH1	2.48	0.46
3:BO:186:SER:HB3	3:BO:246:ILE:HG13	1.98	0.46
3:BO:286:ARG:NH1	3:BQ:268:VAL:HG13	2.30	0.46
3:BP:168:MET:HE1	3:BP:175:TYR:CZ	2.49	0.46
3:BQ:104:GLN:HA	3:BQ:104:GLN:OE1	2.16	0.46
3:BQ:158:LEU:CD2	3:BQ:185:ILE:HD13	2.44	0.46
4:BX:2:ALA:CB	4:BX:638:ALA:HB2	2.46	0.46
4:BX:9:LEU:HB3	4:BX:549:MET:HE1	1.97	0.46
4:BX:35:ILE:CG2	4:BY:37:LEU:HD11	2.23	0.46
4:BX:45:TYR:HE2	4:BX:262:TRP:HZ3	1.52	0.46
4:BX:514:MET:SD	4:BX:764:ARG:HD3	2.56	0.46
4:BX:542:LYS:C	4:BX:544:MET:N	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:542:LYS:HB3	4:BZ:17:ASP:CB	2.46	0.46
4:BX:553:LYS:O	4:BX:554:LYS:HB2	2.16	0.46
4:BX:631:MET:HE1	4:BX:752:LEU:HD23	1.98	0.46
4:BX:686:THR:HG22	4:BX:687:ASP:CG	2.37	0.46
4:BY:5:ILE:HG13	4:BY:530:MET:SD	2.55	0.46
4:BY:315:HIS:CB	4:BY:356:TRP:O	2.46	0.46
4:BY:501:LEU:CD1	4:BY:655:THR:HG21	2.44	0.46
4:BY:514:MET:SD	4:BY:764:ARG:HD3	2.56	0.46
4:BY:540:ALA:CB	4:BY:544:MET:SD	2.91	0.46
4:BY:579:ALA:O	4:BY:580:SER:HB2	2.16	0.46
4:BY:666:LYS:HB2	4:BY:776:LEU:HD13	1.97	0.46
4:BY:706:GLN:O	4:BY:709:ALA:N	2.49	0.46
4:BZ:24:GLU:O	4:BZ:25:ILE:C	2.54	0.46
4:BZ:525:LEU:CD2	4:BZ:642:LYS:HB2	2.45	0.46
4:BZ:568:LEU:HD23	4:BZ:590:ALA:CB	2.46	0.46
1:AA:833:PHE:CZ	1:AA:835:PHE:HD1	2.31	0.46
1:AB:308:LEU:CB	1:AB:310:LEU:HD21	2.44	0.46
1:AB:466:PHE:HE1	2:AH:80:THR:CG2	2.06	0.46
1:AB:670:ARG:O	2:AL:68:THR:OG1	2.22	0.46
1:AB:854:LEU:O	1:AB:855:LEU:C	2.54	0.46
2:AG:32:GLN:O	2:AG:33:GLN:C	2.53	0.46
2:AH:310:ASN:HB2	3:BK:180:GLU:OE1	2.16	0.46
2:AH:382:LEU:HD22	2:AH:386:PHE:CE2	2.51	0.46
2:AI:14:ALA:C	2:AI:16:ASP:N	2.69	0.46
2:AI:35:ASN:O	2:AI:36:GLN:C	2.55	0.46
2:AK:163:SER:HB3	3:BN:62:SER:N	2.30	0.46
2:AL:35:ASN:O	2:AL:36:GLN:C	2.55	0.46
2:AL:38:ILE:O	2:AL:42:ASN:ND2	2.49	0.46
2:AL:99:GLU:HG3	2:AL:99:GLU:O	2.16	0.46
2:AN:14:ALA:C	2:AN:16:ASP:N	2.70	0.46
2:AO:3:VAL:O	2:AO:4:LEU:C	2.54	0.46
3:BF:127:PHE:CZ	3:BF:140:VAL:HG21	2.51	0.46
3:BF:199:ASN:HD21	3:BF:201:GLN:HG2	1.81	0.46
3:BF:210:THR:OG1	4:BZ:379:ILE:HG13	2.16	0.46
3:BF:290:LYS:HA	3:BH:150:LEU:HD22	1.97	0.46
3:BG:170:ILE:HD11	3:BG:239:VAL:CG2	2.44	0.46
3:BG:301:ASP:O	3:BG:301:ASP:OD1	2.34	0.46
3:BJ:319:SER:O	3:BJ:320:ALA:HB2	2.16	0.46
3:BK:104:GLN:OE1	3:BK:104:GLN:HA	2.16	0.46
3:BK:108:THR:CG2	3:BK:109:LYS:H	2.27	0.46
3:BK:179:ASP:C	3:BK:181:ALA:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:104:GLN:OE1	3:BL:104:GLN:HA	2.16	0.46
3:BL:106:PHE:HE2	3:BL:303:VAL:HG21	1.80	0.46
3:BL:270:ASP:O	3:BL:270:ASP:OD1	2.34	0.46
3:BM:268:VAL:CG1	3:BN:286:ARG:CZ	2.94	0.46
3:BN:125:ALA:HB1	3:BN:223:LYS:CG	2.45	0.46
3:BN:310:MET:CG	3:BN:311:SER:N	2.53	0.46
3:BO:127:PHE:CZ	3:BO:140:VAL:HG21	2.51	0.46
3:BO:180:GLU:O	3:BO:180:GLU:CG	2.63	0.46
3:BO:199:ASN:HD21	3:BO:201:GLN:HG2	1.81	0.46
3:BO:205:ILE:HG23	3:BO:205:ILE:O	2.16	0.46
3:BO:268:VAL:HG23	3:BP:266:SER:HB2	1.96	0.46
3:BQ:88:GLU:OE1	3:BQ:143:LYS:HE3	2.16	0.46
4:BX:616:SER:O	4:BX:618:ARG:N	2.48	0.46
4:BX:740:GLN:O	4:BX:743:ASN:N	2.31	0.46
4:BY:686:THR:O	4:BY:688:GLY:N	2.48	0.46
4:BZ:409:VAL:CB	4:BZ:426:PHE:CE2	2.99	0.46
4:BZ:534:ILE:H	4:BZ:534:ILE:HG13	1.60	0.46
4:BZ:706:GLN:O	4:BZ:709:ALA:N	2.49	0.46
4:BZ:762:ILE:O	4:BZ:763:ILE:C	2.55	0.46
1:AA:113:PRO:HG2	1:AA:609:ASN:CB	2.36	0.46
1:AA:205:ALA:O	1:AA:206:ALA:C	2.54	0.46
1:AA:306:ASP:HB3	1:AA:614:TYR:CE2	2.50	0.46
1:AA:471:TRP:HD1	1:AA:512:GLN:HE22	1.63	0.46
1:AA:516:GLN:C	1:AA:518:PHE:H	2.19	0.46
1:AA:629:ASN:HD21	1:AA:670:ARG:HH11	1.62	0.46
1:AB:363:GLU:HG3	1:AB:363:GLU:O	2.15	0.46
1:AB:415:PRO:HB2	1:AB:480:PHE:HB2	1.97	0.46
1:AB:428:GLN:HA	1:AB:431:ILE:HD12	1.97	0.46
1:AB:869:VAL:HG13	1:AB:873:ASN:CA	2.44	0.46
2:AC:139:TRP:CD1	2:AC:139:TRP:C	2.88	0.46
2:AC:295:MET:HE3	3:BH:67:TYR:CG	2.50	0.46
2:AF:60:ASN:C	2:AF:61:PHE:CD1	2.90	0.46
2:AG:34:PHE:CD2	2:AG:66:LEU:HD12	2.51	0.46
2:AG:35:ASN:O	2:AG:36:GLN:C	2.53	0.46
2:AH:61:PHE:CD1	2:AH:61:PHE:N	2.84	0.46
2:AI:60:ASN:C	2:AI:61:PHE:CD1	2.90	0.46
2:AI:164:PHE:H	3:BL:61:GLY:HA3	1.78	0.46
2:AJ:34:PHE:O	2:AJ:37:MET:HB3	2.16	0.46
2:AJ:34:PHE:O	2:AJ:35:ASN:C	2.54	0.46
2:AL:106:ARG:H	2:AL:106:ARG:CD	2.12	0.46
2:AN:74:ASP:OD2	2:AN:76:ASN:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AN:313:PRO:CD	3:BO:279:PRO:HB2	2.46	0.46
2:AO:37:MET:O	2:AO:38:ILE:C	2.53	0.46
3:BF:108:THR:CG2	3:BF:109:LYS:H	2.27	0.46
3:BF:202:THR:O	3:BF:202:THR:HG22	2.15	0.46
3:BG:282:GLU:OE1	3:BG:282:GLU:HA	2.16	0.46
3:BH:179:ASP:C	3:BH:181:ALA:H	2.19	0.46
3:BJ:311:SER:O	3:BJ:312:LYS:C	2.52	0.46
3:BK:148:LEU:HD22	3:BK:151:ASP:OD2	2.16	0.46
3:BK:301:ASP:OD1	3:BK:301:ASP:O	2.34	0.46
3:BK:307:ILE:HD13	3:BK:310:MET:CE	2.45	0.46
3:BL:127:PHE:CZ	3:BL:140:VAL:HG21	2.51	0.46
3:BN:161:ASN:O	3:BN:255:ARG:NE	2.49	0.46
3:BO:137:TYR:HE2	3:BO:311:SER:CA	2.29	0.46
3:BO:168:MET:HE2	3:BO:175:TYR:CG	2.51	0.46
3:BP:268:VAL:HG13	3:BQ:286:ARG:NH1	2.30	0.46
3:BP:301:ASP:O	3:BP:301:ASP:OD1	2.34	0.46
3:BQ:108:THR:HG23	3:BQ:109:LYS:H	1.78	0.46
3:BQ:256:GLU:OE1	3:BQ:283:ARG:NH1	2.48	0.46
4:BX:489:THR:HG23	4:BX:490:VAL:N	2.30	0.46
4:BX:563:THR:O	4:BX:564:LEU:C	2.55	0.46
4:BX:633:PHE:HD2	4:BX:668:ILE:HD13	1.81	0.46
4:BX:733:ASN:C	4:BX:734:TYR:O	2.49	0.46
4:BY:505:PHE:CE1	4:BY:659:ILE:HD11	2.51	0.46
4:BY:563:THR:O	4:BY:564:LEU:C	2.54	0.46
4:BY:585:GLY:HA2	4:BY:706:GLN:NE2	2.31	0.46
4:BY:609:SER:O	4:BY:613:SER:HB2	2.16	0.46
4:BY:706:GLN:O	4:BY:707:LYS:C	2.53	0.46
4:BZ:626:THR:HG22	4:BZ:627:GLN:CG	2.36	0.46
4:BZ:680:GLU:CB	4:BZ:682:PHE:HE1	2.29	0.46
4:BZ:710:ASP:O	4:BZ:713:THR:N	2.49	0.46
1:AA:259:HIS:HD2	1:AA:677:ARG:HG3	1.59	0.45
1:AA:265:LEU:HD21	1:AA:292:LEU:HD12	1.93	0.45
1:AA:324:SER:OG	1:AA:651:ILE:CD1	2.49	0.45
1:AA:389:GLN:O	1:AA:389:GLN:CD	2.54	0.45
1:AA:558:MET:HG3	1:AA:559:ALA:N	2.31	0.45
1:AA:657:VAL:HA	1:AA:658:PRO:HD3	1.69	0.45
1:AB:169:LEU:HD12	1:AB:169:LEU:HA	1.73	0.45
1:AB:252:PHE:O	1:AB:253:ASN:C	2.55	0.45
1:AB:463:ILE:HG21	1:AB:468:VAL:HG11	1.98	0.45
1:AB:484:VAL:HG21	2:AI:69:THR:OG1	2.16	0.45
1:AB:701:GLN:CD	1:AB:701:GLN:N	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:771:VAL:CB	1:AB:809:PHE:HB3	2.37	0.45
2:AD:34:PHE:O	2:AD:35:ASN:C	2.54	0.45
2:AD:71:LEU:O	2:AD:72:ASN:O	2.34	0.45
2:AE:3:VAL:O	2:AE:4:LEU:C	2.55	0.45
2:AE:382:LEU:HD22	2:AE:386:PHE:CE2	2.51	0.45
2:AH:35:ASN:O	2:AH:36:GLN:C	2.54	0.45
2:AH:54:LEU:HD12	2:AH:55:PRO:CD	2.44	0.45
2:AK:14:ALA:C	2:AK:16:ASP:N	2.70	0.45
2:AK:74:ASP:OD2	2:AK:76:ASN:HB3	2.15	0.45
2:AN:100:MET:HG3	2:AN:388:VAL:HG11	1.97	0.45
3:BA:116:VAL:CG1	3:BA:117:TYR:N	2.79	0.45
3:BA:125:ALA:HB1	3:BA:223:LYS:HB2	1.98	0.45
3:BA:126:SER:HA	3:BA:223:LYS:HZ2	1.69	0.45
3:BF:170:ILE:CD1	3:BF:239:VAL:HG23	2.43	0.45
3:BG:73:GLU:O	3:BG:73:GLU:CG	2.61	0.45
3:BJ:301:ASP:O	3:BJ:301:ASP:OD1	2.34	0.45
3:BK:253:GLY:HA2	3:BK:254:PRO:HD3	1.61	0.45
3:BL:125:ALA:HB1	3:BL:223:LYS:HB2	1.98	0.45
3:BL:129:VAL:CG2	3:BL:223:LYS:NZ	2.79	0.45
3:BL:148:LEU:HD22	3:BL:151:ASP:OD2	2.16	0.45
3:BL:222:GLU:HB2	3:BL:225:VAL:CG2	2.45	0.45
3:BM:222:GLU:HB2	3:BM:225:VAL:CG2	2.45	0.45
3:BM:256:GLU:OE1	3:BM:283:ARG:NH1	2.48	0.45
3:BN:104:GLN:HA	3:BN:104:GLN:OE1	2.16	0.45
3:BN:199:ASN:HD21	3:BN:201:GLN:HG2	1.81	0.45
3:BO:150:LEU:CD2	3:BP:290:LYS:CA	2.94	0.45
3:BO:275:PRO:HD2	3:BO:276:THR:N	2.31	0.45
3:BP:199:ASN:HD21	3:BP:201:GLN:HG2	1.81	0.45
3:BQ:106:PHE:HE2	3:BQ:303:VAL:HG21	1.80	0.45
3:BQ:179:ASP:C	3:BQ:181:ALA:H	2.19	0.45
3:BQ:186:SER:HB3	3:BQ:246:ILE:HG13	1.98	0.45
4:BX:29:LYS:HA	4:BY:33:VAL:HG12	1.96	0.45
4:BX:666:LYS:HB2	4:BX:776:LEU:HD13	1.98	0.45
4:BX:743:ASN:C	4:BX:745:LEU:N	2.69	0.45
4:BX:762:ILE:O	4:BX:765:ASN:N	2.48	0.45
4:BY:315:HIS:CD2	4:BY:357:ASP:CA	2.75	0.45
4:BY:626:THR:HG23	4:BZ:524:PRO:CG	2.46	0.45
1:AA:160:TYR:OH	1:AA:635:GLN:HB3	2.17	0.45
1:AA:204:THR:HG22	1:AA:244:ILE:HD12	1.97	0.45
1:AA:526:LYS:CA	1:AA:529:ILE:HG22	2.47	0.45
1:AA:701:GLN:O	1:AA:761:GLY:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:810:TYR:C	1:AA:812:VAL:N	2.68	0.45
1:AB:178:PRO:CD	1:AB:256:PHE:CE2	2.99	0.45
1:AB:216:GLU:O	1:AB:216:GLU:HG3	2.17	0.45
1:AB:463:ILE:HG21	1:AB:468:VAL:CG1	2.46	0.45
1:AB:639:LYS:O	1:AB:642:VAL:N	2.49	0.45
1:AB:739:MET:CG	1:AB:740:ARG:N	2.79	0.45
2:AC:38:ILE:O	2:AC:42:ASN:ND2	2.49	0.45
2:AD:54:LEU:HA	2:AD:55:PRO:HD3	1.82	0.45
2:AD:74:ASP:OD2	2:AD:76:ASN:HB3	2.16	0.45
2:AF:35:ASN:O	2:AF:36:GLN:C	2.55	0.45
2:AG:225:LEU:HD13	2:AG:277:PHE:HD2	1.82	0.45
2:AH:190:VAL:HG21	2:AH:210:HIS:HB2	1.99	0.45
2:AH:255:ARG:HD3	3:BI:65:THR:OG1	2.15	0.45
2:AI:38:ILE:O	2:AI:42:ASN:ND2	2.49	0.45
2:AJ:225:LEU:HD13	2:AJ:277:PHE:HD2	1.81	0.45
2:AK:61:PHE:CD1	2:AK:61:PHE:N	2.84	0.45
2:AK:382:LEU:HD22	2:AK:386:PHE:CE2	2.51	0.45
2:AO:34:PHE:O	2:AO:37:MET:HB3	2.15	0.45
2:AO:139:TRP:CD1	2:AO:139:TRP:C	2.89	0.45
3:BA:186:SER:HB3	3:BA:246:ILE:HG13	1.98	0.45
3:BF:158:LEU:CD2	3:BF:185:ILE:HD13	2.44	0.45
3:BF:174:TYR:HD1	3:BF:234:ASN:HB3	1.77	0.45
3:BG:131:PRO:O	3:BG:131:PRO:CD	2.64	0.45
3:BG:131:PRO:O	3:BG:131:PRO:HD2	2.17	0.45
3:BG:170:ILE:HD11	3:BG:239:VAL:HG21	1.98	0.45
3:BH:130:ASP:O	3:BH:132:GLN:HG2	2.17	0.45
3:BI:199:ASN:HD21	3:BI:201:GLN:HG2	1.81	0.45
3:BK:222:GLU:HB2	3:BK:225:VAL:CG2	2.45	0.45
3:BL:150:LEU:HD22	3:BM:289:TRP:C	2.30	0.45
3:BM:69:ASN:HD22	7:BM:401:NAG:C1	2.14	0.45
3:BM:267:ASP:HB2	3:BM:286:ARG:CZ	2.46	0.45
3:BN:160:LEU:HA	3:BN:258:VAL:CG1	2.47	0.45
3:BN:179:ASP:C	3:BN:181:ALA:H	2.19	0.45
3:BN:301:ASP:OD1	3:BN:301:ASP:O	2.34	0.45
3:BP:106:PHE:HE2	3:BP:303:VAL:HG21	1.80	0.45
3:BP:322:PHE:HB3	3:BP:323:TYR:CD1	2.49	0.45
3:BQ:239:VAL:HG12	3:BQ:240:THR:N	2.31	0.45
4:BX:18:LEU:CD1	4:BY:19:SER:HB3	2.40	0.45
4:BX:633:PHE:CE1	4:BX:719:SER:HB2	2.51	0.45
4:BY:270:ASP:OD1	4:BY:467:ARG:HG2	2.16	0.45
4:BY:645:ILE:O	4:BY:645:ILE:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:160:TYR:CZ	1:AA:635:GLN:HB3	2.51	0.45
1:AA:306:ASP:C	1:AA:308:LEU:N	2.68	0.45
1:AA:385:ALA:O	1:AA:389:GLN:N	2.47	0.45
1:AA:601:PHE:O	1:AA:602:HIS:C	2.55	0.45
1:AA:772:ILE:HD11	1:AA:809:PHE:CE2	2.52	0.45
1:AB:108:LEU:HD22	1:AB:108:LEU:N	2.32	0.45
1:AB:296:ALA:C	1:AB:297:ARG:HG2	2.36	0.45
1:AB:508:GLU:HG2	1:AB:512:GLN:HE22	1.66	0.45
1:AB:704:ILE:O	1:AB:823:THR:HG23	2.16	0.45
2:AC:346:VAL:CG2	2:AC:385:VAL:HG13	2.44	0.45
2:AD:32:GLN:O	2:AD:33:GLN:C	2.53	0.45
2:AF:382:LEU:HD22	2:AF:386:PHE:CE2	2.52	0.45
2:AI:346:VAL:CG2	2:AI:385:VAL:HG13	2.44	0.45
2:AJ:171:PRO:HG3	3:BM:312:LYS:NZ	2.31	0.45
2:AJ:255:ARG:CZ	3:BN:65:THR:OG1	2.64	0.45
2:AK:225:LEU:HD13	2:AK:277:PHE:HD2	1.82	0.45
2:AN:3:VAL:O	2:AN:4:LEU:C	2.55	0.45
2:AN:34:PHE:O	2:AN:37:MET:HB3	2.16	0.45
2:AO:14:ALA:C	2:AO:16:ASP:N	2.69	0.45
2:AO:53:ASN:O	2:AO:55:PRO:HD3	2.17	0.45
3:BF:148:LEU:O	3:BF:149:GLN:C	2.54	0.45
3:BI:268:VAL:O	3:BI:269:LEU:CD2	2.63	0.45
3:BI:282:GLU:HA	3:BI:282:GLU:OE1	2.16	0.45
3:BJ:170:ILE:HD11	3:BJ:239:VAL:HG21	1.98	0.45
3:BJ:179:ASP:C	3:BJ:181:ALA:H	2.19	0.45
3:BK:137:TYR:CD2	3:BK:310:MET:CG	2.98	0.45
3:BL:199:ASN:HD21	3:BL:201:GLN:HG2	1.81	0.45
3:BM:158:LEU:CD2	3:BM:185:ILE:HD13	2.44	0.45
3:BM:179:ASP:C	3:BM:181:ALA:H	2.19	0.45
3:BM:186:SER:HB3	3:BM:246:ILE:HG13	1.98	0.45
3:BM:199:ASN:HD21	3:BM:201:GLN:HG2	1.81	0.45
3:BM:301:ASP:O	3:BM:301:ASP:OD1	2.34	0.45
3:BN:170:ILE:CD1	3:BN:239:VAL:HG23	2.43	0.45
3:BO:83:LEU:CD2	3:BO:139:VAL:HG13	2.43	0.45
3:BP:127:PHE:CZ	3:BP:140:VAL:HG21	2.52	0.45
3:BP:180:GLU:O	3:BP:180:GLU:CG	2.63	0.45
3:BQ:187:MET:CG	3:BQ:224:LEU:CD1	2.87	0.45
4:BX:40:PHE:O	4:BX:41:ALA:HB2	2.16	0.45
4:BY:22:ILE:HD11	4:BZ:22:ILE:HD11	1.98	0.45
4:BY:143:VAL:HG13	4:BY:152:TYR:HB3	1.98	0.45
4:BY:347:GLU:HA	4:BY:430:LEU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:627:GLN:C	4:BY:628:THR:OG1	2.55	0.45
4:BZ:560:SER:O	4:BZ:563:THR:HB	2.16	0.45
1:AA:359:THR:CG2	1:AA:360:ILE:N	2.80	0.45
1:AA:539:ARG:CZ	1:AA:586:MET:O	2.64	0.45
1:AA:587:LEU:O	1:AA:587:LEU:CD1	2.56	0.45
1:AB:126:PHE:HB3	1:AB:150:LEU:HA	1.99	0.45
1:AB:254:GLU:O	1:AB:257:LEU:N	2.35	0.45
1:AB:277:ARG:HB2	1:AB:277:ARG:NH1	2.31	0.45
1:AB:383:ILE:O	1:AB:384:ALA:C	2.55	0.45
1:AB:435:ILE:O	1:AB:436:ILE:C	2.55	0.45
1:AB:436:ILE:O	1:AB:437:TYR:C	2.54	0.45
1:AB:642:VAL:O	1:AB:645:PHE:HB3	2.15	0.45
2:AD:225:LEU:HD13	2:AD:277:PHE:HD2	1.82	0.45
2:AE:225:LEU:HD13	2:AE:277:PHE:HD2	1.82	0.45
2:AF:14:ALA:C	2:AF:16:ASP:N	2.69	0.45
2:AF:41:MET:O	2:AF:42:ASN:C	2.54	0.45
2:AG:238:ILE:HG23	3:BJ:63:MET:HE3	1.99	0.45
2:AH:3:VAL:O	2:AH:4:LEU:C	2.55	0.45
2:AJ:6:SER:O	2:AJ:7:LEU:C	2.55	0.45
2:AK:190:VAL:HG21	2:AK:210:HIS:HB2	1.99	0.45
2:AL:60:ASN:C	2:AL:61:PHE:CD1	2.90	0.45
2:AL:153:HIS:NE2	2:AM:153:HIS:NE2	2.62	0.45
2:AM:34:PHE:HD2	2:AM:66:LEU:HD12	1.80	0.45
2:AM:74:ASP:OD2	2:AM:76:ASN:HB3	2.16	0.45
2:AN:340:LYS:HD3	2:AN:342:MET:HE1	1.96	0.45
2:AO:225:LEU:HD13	2:AO:277:PHE:HD2	1.82	0.45
2:AO:340:LYS:HD3	2:AO:342:MET:HE1	1.98	0.45
3:BA:162:GLU:OE1	3:BA:253:GLY:HA3	2.16	0.45
3:BA:170:ILE:HD11	3:BA:239:VAL:HG21	1.98	0.45
3:BF:170:ILE:HD11	3:BF:239:VAL:HG21	1.98	0.45
3:BG:116:VAL:HG13	3:BG:117:TYR:H	1.77	0.45
3:BG:239:VAL:HG12	3:BG:240:THR:N	2.31	0.45
3:BH:172:LEU:HB2	3:BH:173:TYR:CD1	2.51	0.45
3:BI:150:LEU:HD21	3:BJ:290:LYS:HB3	1.97	0.45
3:BI:174:TYR:HE1	3:BI:234:ASN:HB2	1.72	0.45
3:BJ:125:ALA:HB1	3:BJ:223:LYS:HB2	1.98	0.45
3:BK:197:PRO:HG2	3:BK:205:ILE:HG23	1.99	0.45
3:BK:205:ILE:HG23	3:BK:205:ILE:O	2.16	0.45
3:BM:197:PRO:HG2	3:BM:205:ILE:HG23	1.99	0.45
3:BM:264:GLY:O	3:BM:266:SER:N	2.49	0.45
3:BN:196:CYS:HA	3:BN:197:PRO:HD2	1.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BN:256:GLU:HG3	3:BN:314:SER:OG	2.15	0.45
3:BN:282:GLU:OE1	3:BN:282:GLU:HA	2.16	0.45
3:BO:108:THR:CG2	3:BO:109:LYS:H	2.27	0.45
3:BP:68:ALA:HA	4:BX:600:ASP:HB3	1.98	0.45
4:BX:354:ASP:CB	4:BX:423:SER:OG	2.61	0.45
4:BX:760:ASN:OD1	4:BX:764:ARG:NH2	2.49	0.45
4:BY:14:TYR:CD1	4:BY:14:TYR:C	2.90	0.45
4:BY:495:GLU:OE1	4:BY:654:ASN:HB3	2.16	0.45
4:BY:517:LEU:O	4:BY:518:ILE:C	2.55	0.45
4:BY:617:ARG:NE	4:BY:620:ARG:NH2	2.60	0.45
4:BZ:762:ILE:HA	4:BZ:765:ASN:ND2	2.32	0.45
1:AA:108:LEU:HD22	1:AA:651:ILE:HD11	1.97	0.45
1:AA:339:LEU:HD13	1:AA:588:ILE:HG12	1.99	0.45
1:AA:386:MET:HE3	1:AA:480:PHE:HZ	1.81	0.45
1:AA:526:LYS:HG3	1:AA:527:ARG:N	2.31	0.45
1:AA:714:ARG:HA	1:AA:720:TYR:CB	2.28	0.45
1:AA:744:TYR:HH	1:AB:282:VAL:HG23	1.81	0.45
1:AA:822:THR:O	1:AA:823:THR:CB	2.65	0.45
1:AB:471:TRP:HD1	1:AB:512:GLN:HE22	1.62	0.45
1:AB:739:MET:HG2	1:AB:740:ARG:N	2.31	0.45
2:AC:382:LEU:HD22	2:AC:386:PHE:CE2	2.52	0.45
2:AD:35:ASN:O	2:AD:37:MET:N	2.50	0.45
2:AE:31:ILE:O	2:AE:34:PHE:HB3	2.17	0.45
2:AE:35:ASN:O	2:AE:36:GLN:C	2.54	0.45
2:AI:75:ALA:N	2:AM:76:ASN:OD1	2.50	0.45
2:AK:34:PHE:O	2:AK:37:MET:HB3	2.16	0.45
2:AK:150:PHE:HB2	2:AK:152:PHE:CZ	2.52	0.45
2:AL:34:PHE:O	2:AL:35:ASN:C	2.55	0.45
2:AL:190:VAL:HG21	2:AL:210:HIS:HB2	1.99	0.45
2:AM:225:LEU:HD13	2:AM:277:PHE:HD2	1.82	0.45
2:AN:299:ASN:OD1	3:BP:71:THR:HG22	2.08	0.45
2:AO:35:ASN:O	2:AO:37:MET:N	2.50	0.45
3:BA:129:VAL:HA	3:BA:187:MET:SD	2.56	0.45
3:BA:205:ILE:HG23	3:BA:205:ILE:O	2.16	0.45
3:BA:275:PRO:HD2	3:BA:276:THR:N	2.31	0.45
3:BF:125:ALA:HB1	3:BF:223:LYS:HB2	1.98	0.45
3:BG:127:PHE:CZ	3:BG:140:VAL:HG21	2.51	0.45
3:BH:170:ILE:HD11	3:BH:239:VAL:HG21	1.98	0.45
3:BI:170:ILE:HD11	3:BI:239:VAL:HG21	1.98	0.45
3:BI:182:ASN:OD1	3:BI:248:ASN:ND2	2.49	0.45
3:BI:239:VAL:HG12	3:BI:240:THR:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BI:255:ARG:NH2	3:BI:320:ALA:HB2	2.32	0.45
3:BI:301:ASP:OD1	3:BI:301:ASP:O	2.34	0.45
3:BJ:272:THR:CG2	3:BJ:277:THR:HG22	2.39	0.45
3:BJ:320:ALA:HA	3:BL:52:ASN:ND2	2.32	0.45
3:BK:106:PHE:HE2	3:BK:303:VAL:HG21	1.80	0.45
3:BK:125:ALA:O	3:BK:128:SER:OG	2.31	0.45
3:BK:271:ILE:HD11	3:BK:279:PRO:HG2	1.98	0.45
3:BL:170:ILE:CD1	3:BL:239:VAL:CG2	2.95	0.45
3:BL:186:SER:HB3	3:BL:246:ILE:HG13	1.98	0.45
3:BN:205:ILE:HG23	3:BN:205:ILE:O	2.16	0.45
3:BN:261:ILE:CG1	3:BN:285:MET:CG	2.76	0.45
3:BO:148:LEU:HD22	3:BO:151:ASP:OD2	2.17	0.45
3:BO:239:VAL:HG12	3:BO:240:THR:N	2.31	0.45
3:BP:261:ILE:HG12	3:BP:285:MET:HG3	1.89	0.45
3:BP:289:TRP:HZ3	3:BP:292:TRP:CE2	2.33	0.45
3:BQ:205:ILE:HG23	3:BQ:205:ILE:O	2.16	0.45
3:BQ:301:ASP:OD1	3:BQ:301:ASP:O	2.34	0.45
4:BX:10:LEU:O	4:BY:528:PHE:HB2	2.16	0.45
4:BX:513:ALA:HB2	4:BZ:575:ILE:CG1	2.46	0.45
4:BX:683:GLU:O	4:BX:690:PHE:HA	2.16	0.45
4:BY:46:ALA:H	4:BY:47:PRO:HD2	1.81	0.45
4:BY:591:TRP:CZ3	4:BY:623:GLU:OE1	2.70	0.45
4:BY:636:ILE:O	4:BY:640:VAL:HG23	2.16	0.45
4:BY:710:ASP:O	4:BY:713:THR:N	2.50	0.45
4:BY:748:ASP:OD1	4:BY:748:ASP:C	2.55	0.45
4:BZ:2:ALA:HB3	4:BZ:635:ASP:CA	2.47	0.45
4:BZ:13:SER:C	4:BZ:15:THR:N	2.68	0.45
4:BZ:577:ARG:HD2	4:BZ:577:ARG:HA	1.48	0.45
4:BZ:693:TYR:OH	4:BZ:724:PHE:CG	2.65	0.45
1:AA:666:ARG:CG	1:AA:667:ASP:H	2.29	0.45
1:AB:369:GLY:C	1:AB:371:ASN:N	2.69	0.45
1:AB:649:LEU:C	1:AB:650:GLN:HE21	2.19	0.45
1:AB:724:ALA:CB	1:AB:824:LYS:HE3	2.41	0.45
1:AB:817:TRP:CG	1:AB:818:VAL:N	2.84	0.45
2:AE:37:MET:O	2:AE:38:ILE:C	2.53	0.45
2:AF:20:GLU:O	2:AH:125:LYS:HG3	2.17	0.45
2:AF:99:GLU:HG3	2:AF:99:GLU:O	2.16	0.45
2:AG:54:LEU:HA	2:AG:55:PRO:HD3	1.82	0.45
2:AG:144:ARG:O	2:AG:145:ARG:HB3	2.16	0.45
2:AL:150:PHE:N	2:AL:150:PHE:CD1	2.84	0.45
2:AN:61:PHE:CD1	2:AN:61:PHE:N	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AO:190:VAL:HG21	2:AO:210:HIS:HB2	1.99	0.45
3:BA:192:THR:HG23	3:BA:220:THR:HA	1.97	0.45
3:BF:130:ASP:O	3:BF:130:ASP:OD1	2.34	0.45
3:BF:197:PRO:HG2	3:BF:205:ILE:HG23	1.99	0.45
3:BF:307:ILE:HA	3:BF:310:MET:HE2	1.98	0.45
3:BG:267:ASP:OD1	3:BG:267:ASP:O	2.35	0.45
3:BG:317:LEU:CD2	3:BO:325:ARG:C	2.85	0.45
3:BH:63:MET:C	3:BH:65:THR:HG23	2.37	0.45
3:BH:78:THR:O	3:BH:78:THR:CG2	2.65	0.45
3:BI:144:TYR:CD2	3:BI:145:ASP:N	2.78	0.45
3:BI:275:PRO:HD2	3:BI:276:THR:N	2.31	0.45
3:BJ:256:GLU:OE1	3:BJ:283:ARG:NH1	2.48	0.45
3:BK:158:LEU:CD2	3:BK:185:ILE:HD13	2.44	0.45
3:BN:64:ASP:C	3:BN:65:THR:CG2	2.73	0.45
3:BN:174:TYR:CD2	3:BN:198:LEU:HD13	2.44	0.45
3:BN:197:PRO:HG2	3:BN:205:ILE:HG23	1.99	0.45
3:BO:170:ILE:HD11	3:BO:239:VAL:HG21	1.98	0.45
3:BP:104:GLN:OE1	3:BP:104:GLN:HA	2.16	0.45
3:BP:289:TRP:C	3:BP:289:TRP:CD1	2.89	0.45
3:BQ:197:PRO:HG2	3:BQ:205:ILE:HG23	1.99	0.45
4:BY:13:SER:C	4:BY:15:THR:N	2.70	0.45
4:BY:582:ARG:HB2	4:BY:582:ARG:HH11	1.81	0.45
4:BZ:268:ASN:HD21	4:BZ:467:ARG:NE	2.13	0.45
4:BZ:591:TRP:N	4:BZ:591:TRP:CD1	2.68	0.45
4:BZ:655:THR:O	4:BZ:657:PRO:O	2.35	0.45
1:AA:178:PRO:HD2	1:AA:256:PHE:CE2	2.46	0.45
1:AA:285:ILE:C	1:AA:286:LEU:HD23	2.36	0.45
1:AA:289:ASP:C	1:AA:290:ARG:HG2	2.37	0.45
1:AA:421:ARG:CG	1:AB:523:VAL:CG2	2.69	0.45
1:AA:497:ILE:O	1:AA:498:ARG:C	2.55	0.45
1:AA:620:ASP:O	1:AA:624:ILE:HG13	2.17	0.45
1:AA:676:ILE:O	1:AA:677:ARG:C	2.55	0.45
1:AB:122:LEU:HD13	1:AB:245:LEU:HD21	1.98	0.45
1:AB:392:MET:C	1:AB:573:THR:HG23	2.37	0.45
1:AB:396:PHE:CZ	1:AB:398:THR:HA	2.50	0.45
1:AB:594:ILE:HB	1:AB:595:PRO:CD	2.47	0.45
2:AC:357:VAL:HG21	4:BY:734:TYR:CD2	2.52	0.45
2:AD:3:VAL:O	2:AD:4:LEU:C	2.53	0.45
2:AE:14:ALA:C	2:AE:16:ASP:N	2.70	0.45
2:AE:34:PHE:O	2:AE:37:MET:HB3	2.16	0.45
2:AE:190:VAL:HG21	2:AE:210:HIS:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AJ:382:LEU:HD22	2:AJ:386:PHE:CE2	2.52	0.45
2:AK:6:SER:O	2:AK:7:LEU:C	2.55	0.45
2:AK:35:ASN:O	2:AK:36:GLN:C	2.54	0.45
2:AL:35:ASN:O	2:AL:37:MET:N	2.50	0.45
2:AM:34:PHE:O	2:AM:35:ASN:C	2.54	0.45
2:AO:35:ASN:O	2:AO:36:GLN:C	2.54	0.45
3:BF:173:TYR:OH	4:BZ:467:ARG:CD	2.61	0.45
3:BG:144:TYR:CE2	3:BG:146:ALA:HB2	2.52	0.45
3:BH:64:ASP:O	3:BH:64:ASP:OD1	2.34	0.45
3:BH:199:ASN:HD21	3:BH:201:GLN:HG2	1.81	0.45
3:BH:301:ASP:OD1	3:BH:301:ASP:O	2.34	0.45
3:BI:129:VAL:CG2	3:BI:223:LYS:NZ	2.79	0.45
3:BJ:127:PHE:CZ	3:BJ:140:VAL:HG21	2.51	0.45
3:BO:106:PHE:HE2	3:BO:303:VAL:HG21	1.80	0.45
4:BX:479:ASP:C	4:BX:481:GLN:N	2.70	0.45
4:BX:525:LEU:HD12	4:BX:529:SER:HB2	1.99	0.45
4:BX:686:THR:O	4:BX:688:GLY:N	2.50	0.45
4:BX:750:ARG:HH21	4:BZ:716:PRO:HD2	1.82	0.45
4:BY:479:ASP:O	4:BY:482:THR:CG2	2.65	0.45
4:BY:540:ALA:HA	4:BY:544:MET:HG3	1.99	0.45
4:BY:724:PHE:HE2	4:BY:728:LYS:HB2	1.78	0.45
4:BY:762:ILE:O	4:BY:763:ILE:C	2.54	0.45
4:BZ:502:ARG:O	4:BZ:505:PHE:N	2.50	0.45
4:BZ:553:LYS:O	4:BZ:553:LYS:HG3	2.17	0.45
4:BZ:585:GLY:HA2	4:BZ:706:GLN:NE2	2.31	0.45
1:AA:130:GLN:O	1:AA:131:LEU:HB2	2.17	0.45
1:AA:135:ARG:CZ	1:AA:141:GLU:HG3	2.46	0.45
1:AA:148:TRP:HZ2	1:AA:833:PHE:CD1	2.33	0.45
1:AA:218:GLU:O	1:AA:219:GLY:C	2.55	0.45
1:AA:315:GLU:HG2	1:AB:531:ARG:HH12	1.81	0.45
1:AA:420:ILE:HD12	1:AA:422:GLU:HG2	1.90	0.45
1:AA:557:LEU:O	1:AA:558:MET:C	2.55	0.45
1:AB:170:TYR:HD1	1:AB:685:ILE:CD1	2.29	0.45
1:AB:400:ASN:ND2	1:AB:403:SER:CB	2.78	0.45
1:AB:405:ILE:CG2	1:AB:536:LEU:HD12	2.42	0.45
1:AB:407:GLY:O	1:AB:410:LEU:HB2	2.16	0.45
1:AB:497:ILE:HD12	2:AI:32:GLN:HG3	1.98	0.45
1:AB:510:LEU:O	1:AB:513:LEU:N	2.50	0.45
1:AB:591:ALA:O	1:AB:877:MET:HG2	2.17	0.45
2:AC:60:ASN:C	2:AC:61:PHE:CD1	2.90	0.45
2:AF:34:PHE:O	2:AF:35:ASN:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AF:150:PHE:N	2:AF:150:PHE:CD1	2.84	0.45
2:AG:69:THR:O	2:AG:69:THR:HG22	2.17	0.45
2:AI:273:TYR:C	2:AI:274:GLN:HE21	2.20	0.45
2:AJ:190:VAL:HG21	2:AJ:210:HIS:HB2	1.99	0.45
2:AK:340:LYS:HD3	2:AK:342:MET:HE1	1.98	0.45
2:AL:273:TYR:C	2:AL:274:GLN:HE21	2.20	0.45
2:AL:382:LEU:HD22	2:AL:386:PHE:CE2	2.52	0.45
2:AM:78:VAL:O	2:AM:81:ALA:N	2.41	0.45
2:AO:69:THR:O	2:AO:70:LEU:C	2.55	0.45
3:BA:160:LEU:HD21	3:BA:283:ARG:O	2.17	0.45
3:BA:174:TYR:CE1	3:BA:198:LEU:HD13	2.51	0.45
3:BA:197:PRO:HG2	3:BA:205:ILE:HG23	1.99	0.45
3:BF:83:LEU:CD2	3:BF:139:VAL:HG13	2.44	0.45
3:BF:186:SER:HB3	3:BF:246:ILE:HG13	1.98	0.45
3:BG:58:PRO:CA	3:BO:52:ASN:ND2	2.53	0.45
3:BG:103:SER:CB	3:BO:173:TYR:OH	2.64	0.45
3:BH:127:PHE:CZ	3:BH:140:VAL:HG21	2.51	0.45
3:BJ:143:LYS:CE	3:BJ:289:TRP:CZ3	2.98	0.45
3:BJ:169:ASP:HB3	3:BJ:173:TYR:CD1	2.49	0.45
3:BJ:199:ASN:HD21	3:BJ:201:GLN:HG2	1.81	0.45
3:BK:252:LEU:O	3:BK:253:GLY:O	2.35	0.45
3:BL:128:SER:CA	3:BL:155:LEU:CD1	2.88	0.45
3:BL:301:ASP:OD1	3:BL:301:ASP:O	2.34	0.45
3:BP:168:MET:HE3	3:BP:175:TYR:HH	1.80	0.45
3:BQ:125:ALA:HB1	3:BQ:223:LYS:CG	2.44	0.45
3:BQ:148:LEU:HD22	3:BQ:151:ASP:OD2	2.16	0.45
4:BX:35:ILE:CG2	4:BX:35:ILE:O	2.65	0.45
4:BX:582:ARG:NH1	4:BX:584:VAL:HG23	2.32	0.45
4:BY:19:SER:OG	4:BY:20:ASP:N	2.49	0.45
4:BY:102:TRP:HB2	4:BY:145:LYS:HG2	1.99	0.45
4:BY:658:ASP:O	4:BY:661:THR:N	2.49	0.45
4:BZ:419:VAL:CG1	4:BZ:420:SER:N	2.76	0.45
4:BZ:509:SER:C	4:BZ:511:GLU:H	2.19	0.45
4:BZ:517:LEU:O	4:BZ:518:ILE:C	2.56	0.45
4:BZ:633:PHE:O	4:BZ:636:ILE:HB	2.17	0.45
1:AA:193:SER:C	1:AA:195:ASP:N	2.70	0.45
1:AA:428:GLN:CG	1:AA:455:PRO:HB2	2.47	0.45
1:AA:594:ILE:HA	1:AA:595:PRO:HD3	1.85	0.45
1:AA:715:ASP:OD1	1:AA:829:ILE:HD13	2.17	0.45
1:AA:835:PHE:O	1:AA:836:ARG:C	2.53	0.45
1:AB:382:LEU:HD12	1:AB:382:LEU:HA	1.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:630:ARG:H	1:AB:630:ARG:HG2	1.41	0.45
2:AC:14:ALA:C	2:AC:16:ASP:N	2.69	0.45
2:AD:73:LEU:HD13	2:AD:77:TYR:HD2	1.82	0.45
2:AD:382:LEU:HD22	2:AD:386:PHE:CE2	2.52	0.45
2:AE:310:ASN:HB2	3:BF:180:GLU:OE2	2.17	0.45
2:AH:31:ILE:O	2:AH:34:PHE:HB3	2.17	0.45
2:AH:225:LEU:HD13	2:AH:277:PHE:HD2	1.82	0.45
2:AH:312:GLN:HB3	2:AH:313:PRO:HA	1.99	0.45
2:AI:66:LEU:HD23	2:AI:66:LEU:HA	1.81	0.45
2:AI:150:PHE:N	2:AI:150:PHE:CD1	2.85	0.45
2:AI:310:ASN:HB2	3:BL:180:GLU:OE1	2.17	0.45
2:AM:6:SER:O	2:AM:7:LEU:C	2.55	0.45
2:AN:76:ASN:CB	2:AO:76:ASN:HB2	2.47	0.45
2:AN:150:PHE:HB2	2:AN:152:PHE:CZ	2.52	0.45
2:AO:89:VAL:O	2:AO:91:PHE:N	2.50	0.45
2:AO:312:GLN:HB3	2:AO:313:PRO:HA	1.99	0.45
3:BG:59:ILE:CG2	3:BG:60:THR:N	2.44	0.45
3:BG:79:SER:HB3	3:BG:312:LYS:HZ2	1.82	0.45
3:BG:125:ALA:HB1	3:BG:223:LYS:HB2	1.98	0.45
3:BG:253:GLY:HA2	3:BG:254:PRO:HD3	1.64	0.45
3:BH:104:GLN:OE1	3:BH:104:GLN:HA	2.16	0.45
3:BJ:78:THR:O	3:BJ:78:THR:CG2	2.65	0.45
3:BJ:196:CYS:HA	3:BJ:197:PRO:HD2	1.83	0.45
3:BJ:205:ILE:O	3:BJ:205:ILE:HG23	2.16	0.45
3:BJ:321:ALA:HA	3:BJ:325:ARG:HG3	1.99	0.45
3:BL:137:TYR:OH	3:BL:312:LYS:HE2	2.17	0.45
3:BL:286:ARG:HE	3:BN:270:ASP:HB2	1.80	0.45
3:BM:170:ILE:HD11	3:BM:239:VAL:HG21	1.98	0.45
3:BN:127:PHE:CZ	3:BN:140:VAL:HG21	2.52	0.45
3:BN:323:TYR:O	3:BN:324:TYR:CD1	2.70	0.45
3:BO:55:ILE:CG1	3:BO:55:ILE:O	2.57	0.45
3:BO:153:SER:HA	3:BO:269:LEU:CG	2.47	0.45
3:BQ:159:ILE:HG21	3:BQ:258:VAL:HG21	1.99	0.45
3:BQ:222:GLU:HB2	3:BQ:225:VAL:CG2	2.45	0.45
4:BX:167:VAL:HG23	4:BX:176:THR:HG22	1.98	0.45
4:BX:555:SER:O	4:BX:559:ASN:ND2	2.50	0.45
4:BX:674:ARG:NH2	4:BX:745:LEU:CD2	2.74	0.45
4:BY:319:SER:O	4:BY:352:TYR:O	2.35	0.45
4:BY:414:GLN:O	4:BY:420:SER:HA	2.17	0.45
4:BY:509:SER:C	4:BY:511:GLU:H	2.20	0.45
4:BY:582:ARG:HG3	4:BY:583:SER:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:591:TRP:H	4:BY:591:TRP:HD1	1.54	0.45
4:BY:704:ASP:O	4:BY:706:GLN:N	2.49	0.45
4:BY:755:PHE:CD2	4:BY:763:ILE:CD1	3.00	0.45
4:BZ:627:GLN:C	4:BZ:628:THR:OG1	2.55	0.45
1:AA:413:VAL:HG12	1:AA:414:VAL:N	2.32	0.45
1:AA:487:GLY:O	1:AA:488:VAL:HB	2.16	0.45
1:AA:771:VAL:CG1	1:AA:772:ILE:H	2.26	0.45
1:AA:779:ASP:CA	1:AA:798:ILE:HD12	2.46	0.45
1:AB:275:PRO:HG2	1:AB:278:ILE:HD11	1.99	0.45
1:AB:594:ILE:HB	1:AB:595:PRO:HD2	1.98	0.45
1:AB:698:LYS:O	1:AB:699:ILE:HG12	2.17	0.45
2:AC:239:ASN:ND2	3:BG:67:TYR:CD2	2.84	0.45
2:AC:273:TYR:C	2:AC:274:GLN:HE21	2.20	0.45
2:AF:106:ARG:HD3	2:AF:106:ARG:N	2.14	0.45
2:AF:217:VAL:HG22	2:AF:286:ASP:HB3	1.99	0.45
2:AG:34:PHE:O	2:AG:35:ASN:C	2.55	0.45
2:AH:14:ALA:C	2:AH:16:ASP:N	2.70	0.45
2:AI:34:PHE:O	2:AI:35:ASN:C	2.55	0.45
2:AI:382:LEU:HD22	2:AI:386:PHE:CE2	2.52	0.45
2:AK:273:TYR:C	2:AK:274:GLN:HE21	2.21	0.45
2:AN:31:ILE:O	2:AN:34:PHE:HB3	2.17	0.45
2:AN:382:LEU:HD22	2:AN:386:PHE:CE2	2.51	0.45
2:AO:63:PHE:CD1	2:AO:63:PHE:N	2.85	0.45
3:BA:83:LEU:CD2	3:BA:139:VAL:HG13	2.43	0.45
3:BA:127:PHE:CZ	3:BA:140:VAL:HG21	2.52	0.45
3:BF:258:VAL:HG11	3:BF:260:VAL:HG23	1.99	0.45
3:BF:306:ILE:O	3:BF:310:MET:HE2	2.17	0.45
3:BG:186:SER:HB3	3:BG:246:ILE:HG13	1.98	0.45
3:BG:191:CYS:HG	3:BG:244:CYS:CB	2.30	0.45
3:BG:252:LEU:O	3:BG:253:GLY:C	2.55	0.45
3:BI:179:ASP:C	3:BI:181:ALA:H	2.19	0.45
3:BJ:159:ILE:HG21	3:BJ:258:VAL:HG21	1.99	0.45
3:BJ:167:PRO:O	3:BL:117:TYR:CZ	2.70	0.45
3:BJ:263:VAL:CG1	3:BJ:289:TRP:HB2	2.39	0.45
3:BL:83:LEU:CD2	3:BL:139:VAL:HG13	2.43	0.45
3:BL:179:ASP:C	3:BL:181:ALA:H	2.19	0.45
3:BM:160:LEU:HD21	3:BM:283:ARG:O	2.17	0.45
3:BM:201:GLN:O	3:BM:202:THR:HB	2.17	0.45
3:BN:160:LEU:HD21	3:BN:283:ARG:O	2.17	0.45
3:BP:170:ILE:HD11	3:BP:239:VAL:HG21	1.98	0.45
3:BP:282:GLU:OE1	3:BP:282:GLU:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BQ:127:PHE:CZ	3:BQ:140:VAL:HG21	2.51	0.45
4:BX:333:LEU:HD12	4:BX:334:PRO:CD	2.47	0.45
4:BX:495:GLU:HA	4:BX:498:LEU:HB3	1.99	0.45
4:BX:578:GLY:O	4:BX:579:ALA:C	2.55	0.45
4:BX:620:ARG:C	4:BX:622:LYS:N	2.70	0.45
4:BX:627:GLN:C	4:BX:628:THR:OG1	2.56	0.45
4:BX:668:ILE:HG22	4:BX:668:ILE:O	2.17	0.45
4:BY:269:ARG:HG3	4:BY:269:ARG:NH1	2.32	0.45
4:BY:470:LEU:HD21	4:BY:472:SER:HB3	1.98	0.45
4:BY:568:LEU:O	4:BY:569:SER:C	2.56	0.45
4:BY:580:SER:O	4:BY:581:ILE:HG13	2.17	0.45
4:BY:583:SER:O	4:BY:584:VAL:C	2.55	0.45
4:BY:661:THR:O	4:BY:663:ALA:N	2.50	0.45
4:BY:766:ARG:HA	4:BY:766:ARG:HD2	1.78	0.45
4:BZ:7:ARG:CD	4:BZ:625:ALA:HA	2.47	0.45
1:AA:189:GLU:HA	1:AA:198:LYS:HA	1.98	0.44
1:AA:596:SER:O	1:AA:599:THR:HB	2.16	0.44
1:AB:315:GLU:O	1:AB:316:SER:C	2.56	0.44
1:AB:508:GLU:O	1:AB:512:GLN:CG	2.61	0.44
1:AB:735:LEU:CD2	1:AB:759:LEU:HB3	2.48	0.44
2:AC:117:ARG:NH2	2:AL:90:ASP:HB2	2.32	0.44
2:AC:190:VAL:HG21	2:AC:210:HIS:HB2	1.99	0.44
2:AD:6:SER:O	2:AD:7:LEU:C	2.55	0.44
2:AD:70:LEU:CG	2:AD:71:LEU:N	2.79	0.44
2:AE:62:ASP:H	2:AE:63:PHE:HD1	1.66	0.44
2:AF:6:SER:O	2:AF:7:LEU:C	2.55	0.44
2:AI:239:ASN:CA	3:BL:67:TYR:CE2	2.99	0.44
2:AK:3:VAL:O	2:AK:4:LEU:C	2.55	0.44
2:AL:126:ARG:NH1	2:AL:126:ARG:CG	2.53	0.44
2:AL:136:ILE:HG23	2:AL:137:GLU:N	2.33	0.44
2:AM:190:VAL:HG21	2:AM:210:HIS:HB2	1.99	0.44
2:AN:225:LEU:HD13	2:AN:277:PHE:HD2	1.82	0.44
2:AO:10:THR:O	2:AO:14:ALA:HB2	2.17	0.44
3:BA:106:PHE:CE1	3:BA:116:VAL:HG11	2.52	0.44
3:BA:159:ILE:HG21	3:BA:258:VAL:HG21	1.99	0.44
3:BF:160:LEU:HD21	3:BF:283:ARG:O	2.17	0.44
3:BF:222:GLU:HB2	3:BF:225:VAL:CG2	2.45	0.44
3:BG:197:PRO:HG2	3:BG:205:ILE:HG23	1.99	0.44
3:BG:205:ILE:HG23	3:BG:205:ILE:O	2.16	0.44
3:BJ:222:GLU:HB2	3:BJ:225:VAL:CG2	2.45	0.44
3:BK:199:ASN:HD21	3:BK:201:GLN:HG2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:201:GLN:O	3:BK:202:THR:HB	2.18	0.44
3:BM:174:TYR:CG	3:BM:198:LEU:HD11	2.52	0.44
3:BM:175:TYR:HE1	3:BM:237:LEU:HD22	1.79	0.44
3:BN:125:ALA:HB1	3:BN:223:LYS:HB2	1.98	0.44
3:BN:170:ILE:HD11	3:BN:239:VAL:HG21	1.98	0.44
3:BO:179:ASP:C	3:BO:181:ALA:H	2.19	0.44
3:BQ:170:ILE:CD1	3:BQ:239:VAL:HG23	2.43	0.44
3:BQ:170:ILE:HD11	3:BQ:239:VAL:HG21	1.98	0.44
4:BX:644:LYS:HE3	4:BX:644:LYS:HB3	1.74	0.44
4:BX:677:ASN:ND2	4:BX:711:LEU:HD11	2.25	0.44
4:BX:701:ILE:CG1	4:BX:702:PRO:HD2	2.47	0.44
4:BX:734:TYR:CZ	4:BX:762:ILE:HG13	2.45	0.44
4:BY:2:ALA:CA	4:BY:5:ILE:HG23	2.48	0.44
4:BY:49:ASN:CB	4:BY:421:LEU:CD1	2.89	0.44
4:BY:371:LEU:HD23	4:BY:372:ALA:N	2.32	0.44
4:BY:633:PHE:CE1	4:BY:719:SER:HB2	2.51	0.44
4:BY:694:ARG:NH2	4:BY:701:ILE:CG2	2.72	0.44
4:BZ:329:ASN:ND2	4:BZ:331:GLY:H	2.15	0.44
4:BZ:566:ASP:C	4:BZ:568:LEU:H	2.20	0.44
4:BZ:755:PHE:CD2	4:BZ:763:ILE:CD1	3.00	0.44
1:AA:198:LYS:O	1:AA:241:TYR:CE2	2.71	0.44
1:AA:283:ASN:ND2	1:AA:869:VAL:H	2.14	0.44
1:AA:592:THR:HB	1:AA:865:PRO:HB2	2.00	0.44
1:AB:692:ILE:O	1:AB:695:ALA:N	2.50	0.44
2:AC:150:PHE:O	2:AC:330:VAL:HG13	2.18	0.44
2:AF:35:ASN:O	2:AF:37:MET:N	2.50	0.44
2:AI:312:GLN:HB3	2:AI:313:PRO:HA	1.99	0.44
2:AJ:217:VAL:HG22	2:AJ:286:ASP:HB3	1.99	0.44
2:AK:312:GLN:HB3	2:AK:313:PRO:HA	1.99	0.44
2:AL:14:ALA:C	2:AL:16:ASP:N	2.69	0.44
2:AL:217:VAL:HG22	2:AL:286:ASP:HB3	1.99	0.44
2:AL:312:GLN:HB3	2:AL:313:PRO:HA	1.99	0.44
2:AM:382:LEU:HD22	2:AM:386:PHE:CE2	2.52	0.44
2:AO:34:PHE:O	2:AO:35:ASN:C	2.55	0.44
2:AO:382:LEU:HD22	2:AO:386:PHE:CE2	2.52	0.44
3:BF:172:LEU:HB2	3:BF:173:TYR:CZ	2.49	0.44
3:BF:261:ILE:HG12	3:BF:285:MET:HG3	1.89	0.44
3:BG:160:LEU:HD21	3:BG:283:ARG:O	2.17	0.44
3:BG:317:LEU:HD11	3:BG:322:PHE:CE2	2.52	0.44
3:BH:125:ALA:HB1	3:BH:223:LYS:HB2	1.98	0.44
3:BH:160:LEU:HD21	3:BH:283:ARG:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:75:THR:HG23	3:BJ:79:SER:OG	2.17	0.44
3:BJ:158:LEU:CD2	3:BJ:185:ILE:HD13	2.44	0.44
3:BL:125:ALA:HB1	3:BL:223:LYS:CG	2.45	0.44
3:BM:64:ASP:C	3:BM:65:THR:CG2	2.86	0.44
3:BM:127:PHE:CZ	3:BM:140:VAL:HG21	2.51	0.44
3:BM:275:PRO:HD2	3:BM:276:THR:N	2.31	0.44
3:BO:285:MET:HB3	3:BQ:275:PRO:O	2.17	0.44
3:BP:179:ASP:C	3:BP:181:ALA:H	2.19	0.44
3:BQ:174:TYR:HE1	3:BQ:234:ASN:HB2	1.72	0.44
4:BX:9:LEU:O	4:BX:12:ASN:N	2.49	0.44
4:BX:66:ASP:CG	4:BX:207:ILE:O	2.55	0.44
4:BX:274:ARG:HG2	4:BX:461:TYR:CD1	2.52	0.44
4:BX:480:TYR:O	4:BX:483:PRO:HD2	2.15	0.44
4:BX:566:ASP:C	4:BX:568:LEU:H	2.20	0.44
4:BX:591:TRP:H	4:BX:591:TRP:HD1	1.57	0.44
4:BY:167:VAL:HG23	4:BY:176:THR:HG22	1.98	0.44
4:BY:516:GLN:NE2	4:BY:516:GLN:H	2.14	0.44
4:BZ:746:ARG:O	4:BZ:747:SER:HB3	2.17	0.44
1:AA:169:LEU:HD12	1:AA:169:LEU:HA	1.65	0.44
1:AA:688:ASN:O	1:AA:691:GLN:N	2.49	0.44
1:AB:246:HIS:HB3	1:AB:249:ASP:OD2	2.17	0.44
1:AB:249:ASP:O	1:AB:250:HIS:C	2.56	0.44
1:AB:257:LEU:HD13	1:AB:843:THR:O	2.17	0.44
1:AB:305:GLN:HE21	1:AB:564:ASN:CG	2.20	0.44
1:AB:354:GLN:OE1	1:AB:354:GLN:HA	2.17	0.44
1:AB:402:MET:O	1:AB:404:LEU:N	2.51	0.44
1:AB:465:ASN:OD1	1:AB:515:ARG:HD2	2.18	0.44
2:AC:20:GLU:O	2:AE:125:LYS:HG3	2.17	0.44
2:AC:35:ASN:O	2:AC:36:GLN:C	2.55	0.44
2:AC:117:ARG:NH2	2:AL:90:ASP:CB	2.79	0.44
2:AE:6:SER:O	2:AE:7:LEU:C	2.55	0.44
2:AF:312:GLN:HB3	2:AF:313:PRO:HA	1.99	0.44
2:AG:273:TYR:C	2:AG:274:GLN:HE21	2.20	0.44
2:AG:382:LEU:HD22	2:AG:386:PHE:CE2	2.52	0.44
2:AI:4:LEU:HA	2:AI:7:LEU:CD1	2.48	0.44
2:AI:35:ASN:O	2:AI:37:MET:N	2.50	0.44
2:AK:217:VAL:HG22	2:AK:286:ASP:HB3	2.00	0.44
2:AK:272:THR:CG2	4:BX:729:ASN:OD1	2.65	0.44
2:AM:70:LEU:HD11	2:AM:77:TYR:CE1	2.53	0.44
2:AN:217:VAL:HG22	2:AN:286:ASP:HB3	2.00	0.44
2:AO:6:SER:O	2:AO:7:LEU:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:158:LEU:CD2	3:BA:185:ILE:HD13	2.44	0.44
3:BA:252:LEU:C	3:BA:253:GLY:O	2.55	0.44
3:BF:162:GLU:N	3:BF:253:GLY:O	2.44	0.44
3:BF:261:ILE:CG1	3:BF:285:MET:CG	2.76	0.44
3:BG:52:ASN:C	3:BG:54:GLY:H	2.19	0.44
3:BH:222:GLU:HB2	3:BH:225:VAL:CG2	2.45	0.44
3:BI:263:VAL:CG1	3:BI:289:TRP:HE3	2.28	0.44
3:BJ:75:THR:CG2	3:BJ:79:SER:OG	2.65	0.44
3:BJ:315:ARG:O	3:BJ:325:ARG:CA	2.66	0.44
3:BL:247:ARG:HH21	3:BL:323:TYR:HD1	1.65	0.44
3:BM:82:CYS:HG	3:BM:135:CYS:CB	2.16	0.44
3:BM:159:ILE:HG21	3:BM:258:VAL:HG21	1.99	0.44
3:BM:175:TYR:HH	3:BM:237:LEU:CD2	2.27	0.44
3:BN:126:SER:CA	3:BN:223:LYS:HZ1	2.07	0.44
3:BP:158:LEU:CD2	3:BP:185:ILE:HD13	2.44	0.44
3:BQ:160:LEU:HD21	3:BQ:283:ARG:O	2.17	0.44
4:BX:14:TYR:CD1	4:BX:15:THR:N	2.85	0.44
4:BX:273:ILE:HD13	4:BX:426:PHE:CD2	2.52	0.44
4:BX:333:LEU:HD12	4:BX:334:PRO:HD3	1.99	0.44
4:BX:692:ALA:O	4:BX:701:ILE:HG22	2.17	0.44
4:BY:40:PHE:CD2	4:BY:259:THR:HG22	2.50	0.44
4:BY:566:ASP:C	4:BY:568:LEU:N	2.71	0.44
4:BY:633:PHE:O	4:BY:636:ILE:HB	2.18	0.44
4:BY:701:ILE:HG23	4:BY:701:ILE:O	2.16	0.44
4:BY:727:LEU:O	4:BY:730:LEU:HB3	2.18	0.44
4:BZ:14:TYR:CD1	4:BZ:15:THR:N	2.85	0.44
4:BZ:564:LEU:HD13	4:BZ:618:ARG:HD3	1.99	0.44
1:AA:420:ILE:HG13	1:AA:421:ARG:N	2.30	0.44
1:AA:580:SER:O	1:AA:581:VAL:C	2.56	0.44
1:AA:642:VAL:HG11	1:AA:662:MET:CA	2.48	0.44
1:AA:681:ILE:O	1:AA:685:ILE:HG13	2.17	0.44
1:AA:779:ASP:N	1:AA:779:ASP:OD1	2.50	0.44
1:AB:258:GLN:HG3	2:AN:70:LEU:CA	2.46	0.44
1:AB:308:LEU:HA	1:AB:308:LEU:HD23	1.64	0.44
1:AB:418:MET:O	1:AB:418:MET:HG3	2.17	0.44
1:AB:723:ILE:HG22	1:AB:724:ALA:N	2.32	0.44
2:AC:6:SER:O	2:AC:7:LEU:C	2.55	0.44
2:AC:144:ARG:HD2	2:AD:82:ARG:CZ	2.48	0.44
2:AD:73:LEU:HD13	2:AD:77:TYR:CD2	2.53	0.44
2:AD:217:VAL:HG22	2:AD:286:ASP:HB3	1.99	0.44
2:AE:23:LEU:O	2:AE:26:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:35:ASN:O	2:AE:37:MET:N	2.51	0.44
2:AE:310:ASN:CB	3:BF:180:GLU:OE1	2.65	0.44
2:AF:106:ARG:H	2:AF:106:ARG:CD	2.12	0.44
2:AF:249:PHE:CE2	2:AF:251:PRO:HG3	2.53	0.44
2:AG:6:SER:O	2:AG:7:LEU:C	2.55	0.44
2:AG:35:ASN:O	2:AG:37:MET:N	2.50	0.44
2:AG:217:VAL:HG22	2:AG:286:ASP:HB3	1.99	0.44
2:AG:238:ILE:HG23	3:BJ:63:MET:CE	2.48	0.44
2:AH:23:LEU:O	2:AH:26:ASN:ND2	2.51	0.44
2:AI:6:SER:O	2:AI:7:LEU:C	2.55	0.44
2:AI:20:GLU:O	2:AK:125:LYS:HG3	2.17	0.44
2:AJ:35:ASN:O	2:AJ:37:MET:N	2.50	0.44
2:AJ:136:ILE:HG23	2:AJ:137:GLU:N	2.33	0.44
2:AJ:273:TYR:C	2:AJ:274:GLN:HE21	2.21	0.44
2:AK:89:VAL:O	2:AK:91:PHE:N	2.51	0.44
2:AL:20:GLU:O	2:AN:125:LYS:HG3	2.17	0.44
2:AL:249:PHE:CE2	2:AL:251:PRO:HG3	2.53	0.44
2:AN:190:VAL:HG21	2:AN:210:HIS:HB2	1.99	0.44
3:BF:179:ASP:C	3:BF:181:ALA:H	2.19	0.44
3:BH:125:ALA:HB1	3:BH:223:LYS:CG	2.45	0.44
3:BH:159:ILE:HG21	3:BH:258:VAL:HG21	1.99	0.44
3:BH:170:ILE:CD1	3:BH:239:VAL:HG23	2.43	0.44
3:BH:259:ALA:HB1	3:BH:285:MET:HE3	1.98	0.44
3:BI:167:PRO:O	3:BI:168:MET:CE	2.65	0.44
3:BJ:178:THR:HB	3:BJ:179:ASP:OD1	2.18	0.44
3:BJ:271:ILE:CD1	3:BJ:279:PRO:HG2	2.43	0.44
3:BL:160:LEU:HD21	3:BL:283:ARG:O	2.17	0.44
3:BM:130:ASP:O	3:BM:132:GLN:N	2.51	0.44
3:BN:160:LEU:O	3:BN:255:ARG:N	2.50	0.44
3:BN:201:GLN:O	3:BN:202:THR:HB	2.18	0.44
3:BN:253:GLY:C	3:BN:254:PRO:O	2.56	0.44
3:BN:275:PRO:HD2	3:BN:276:THR:N	2.31	0.44
3:BQ:187:MET:SD	3:BQ:224:LEU:HD12	2.54	0.44
4:BX:369:ARG:NH1	4:BZ:333:LEU:HG	2.29	0.44
4:BX:637:SER:HB2	4:BX:667:PHE:HD2	1.82	0.44
4:BX:726:THR:HG21	4:BX:766:ARG:CB	2.45	0.44
4:BX:729:ASN:O	4:BX:733:ASN:ND2	2.50	0.44
4:BY:38:GLY:N	4:BY:39:PRO:CD	2.57	0.44
4:BY:560:SER:HB2	4:BY:622:LYS:HE2	1.99	0.44
4:BY:616:SER:O	4:BY:619:LEU:N	2.50	0.44
4:BZ:518:ILE:CD1	4:BZ:756:ILE:HG21	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:525:LEU:O	4:BZ:525:LEU:HG	2.17	0.44
4:BZ:564:LEU:HD22	4:BZ:622:LYS:HG2	2.00	0.44
4:BZ:668:ILE:HG22	4:BZ:668:ILE:O	2.18	0.44
4:BZ:750:ARG:O	4:BZ:751:VAL:C	2.56	0.44
1:AA:124:ARG:NH2	1:AA:244:ILE:O	2.51	0.44
1:AA:224:PHE:O	1:AA:225:ILE:C	2.54	0.44
1:AA:308:LEU:O	1:AA:309:ASN:C	2.56	0.44
1:AA:534:LEU:HA	1:AA:537:SER:OG	2.18	0.44
1:AA:609:ASN:O	1:AA:610:PHE:C	2.55	0.44
1:AA:660:ASP:HB3	1:AB:539:ARG:HD2	2.00	0.44
1:AA:704:ILE:HG22	1:AA:705:ILE:N	2.32	0.44
1:AB:300:ARG:HA	1:AB:301:PRO:HD3	1.83	0.44
1:AB:558:MET:O	1:AB:559:ALA:C	2.55	0.44
1:AB:745:ALA:HA	1:AB:748:THR:OG1	2.18	0.44
2:AC:22:THR:HB	2:AE:128:ASN:O	2.18	0.44
2:AC:89:VAL:O	2:AC:91:PHE:N	2.51	0.44
2:AF:31:ILE:O	2:AF:34:PHE:HB3	2.18	0.44
2:AF:48:THR:HG22	2:AF:115:SER:OG	2.18	0.44
2:AF:136:ILE:HG23	2:AF:137:GLU:N	2.33	0.44
2:AF:225:LEU:HD13	2:AF:277:PHE:HD2	1.82	0.44
2:AH:150:PHE:HB2	2:AH:152:PHE:CZ	2.52	0.44
2:AI:78:VAL:O	2:AI:81:ALA:N	2.42	0.44
2:AI:249:PHE:CE2	2:AI:251:PRO:HG3	2.53	0.44
2:AK:31:ILE:O	2:AK:34:PHE:HB3	2.17	0.44
2:AL:150:PHE:O	2:AL:330:VAL:HG13	2.18	0.44
2:AN:273:TYR:C	2:AN:274:GLN:HE21	2.21	0.44
3:BH:201:GLN:O	3:BH:202:THR:HB	2.18	0.44
3:BI:271:ILE:CG2	3:BI:271:ILE:O	2.65	0.44
3:BL:170:ILE:HG21	3:BL:237:LEU:O	2.14	0.44
3:BL:205:ILE:HG23	3:BM:104:GLN:CD	2.38	0.44
3:BL:205:ILE:CG2	3:BM:104:GLN:OE1	2.66	0.44
3:BM:174:TYR:HD1	3:BM:234:ASN:HB3	1.70	0.44
3:BM:178:THR:HB	3:BM:179:ASP:OD1	2.18	0.44
3:BN:268:VAL:O	3:BN:268:VAL:HG13	2.16	0.44
3:BO:159:ILE:HG21	3:BO:258:VAL:HG21	1.99	0.44
3:BO:160:LEU:HD21	3:BO:283:ARG:O	2.17	0.44
3:BO:197:PRO:HG2	3:BO:205:ILE:HG23	1.99	0.44
3:BP:168:MET:HE2	3:BP:246:ILE:HG21	1.90	0.44
3:BP:174:TYR:HD1	3:BP:234:ASN:HB3	1.73	0.44
4:BX:37:LEU:CD1	4:BY:40:PHE:CE1	2.89	0.44
4:BX:509:SER:C	4:BX:511:GLU:H	2.19	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:488:VAL:HG13	4:BY:489:THR:HG22	2.00	0.44
4:BY:591:TRP:N	4:BY:591:TRP:CD1	2.70	0.44
4:BZ:633:PHE:CE2	4:BZ:671:ARG:HB2	2.53	0.44
4:BZ:748:ASP:OD1	4:BZ:748:ASP:C	2.55	0.44
1:AA:120:THR:O	1:AA:121:LYS:C	2.55	0.44
1:AA:129:ARG:HG2	1:AA:130:GLN:N	2.32	0.44
1:AA:204:THR:CG2	1:AA:244:ILE:N	2.79	0.44
1:AA:218:GLU:HB3	1:AA:219:GLY:H	1.55	0.44
1:AA:437:TYR:CB	1:AA:438:PRO:CD	2.96	0.44
1:AA:694:ARG:HD3	1:AA:701:GLN:NE2	2.32	0.44
1:AA:821:SER:OG	1:AA:822:THR:N	2.51	0.44
1:AB:96:PRO:CG	1:AB:657:VAL:HG22	2.48	0.44
1:AB:183:LEU:O	1:AB:186:MET:N	2.48	0.44
1:AB:211:ILE:O	1:AB:213:GLN:N	2.50	0.44
1:AB:608:VAL:O	1:AB:609:ASN:C	2.56	0.44
1:AB:675:GLU:O	1:AB:677:ARG:N	2.50	0.44
1:AB:744:TYR:O	1:AB:745:ALA:HB3	2.18	0.44
2:AC:35:ASN:O	2:AC:37:MET:N	2.50	0.44
2:AE:54:LEU:HD12	2:AE:55:PRO:CD	2.44	0.44
2:AE:249:PHE:CE2	2:AE:251:PRO:HG3	2.53	0.44
2:AI:168:ARG:CZ	3:BJ:53:TYR:CE2	2.99	0.44
2:AI:217:VAL:HG22	2:AI:286:ASP:HB3	2.00	0.44
2:AI:227:PRO:HD3	2:AI:277:PHE:CG	2.53	0.44
2:AJ:225:LEU:HD13	2:AJ:277:PHE:CD2	2.53	0.44
2:AJ:241:ALA:HB1	3:BM:59:ILE:CG2	2.48	0.44
2:AK:142:GLN:NE2	2:AK:143:ASN:N	2.66	0.44
2:AL:6:SER:O	2:AL:7:LEU:C	2.55	0.44
2:AL:48:THR:HG22	2:AL:115:SER:OG	2.18	0.44
2:AL:225:LEU:HD13	2:AL:277:PHE:HD2	1.82	0.44
2:AN:62:ASP:H	2:AN:63:PHE:HD1	1.66	0.44
2:AN:225:LEU:HD13	2:AN:277:PHE:CD2	2.53	0.44
2:AN:312:GLN:HB3	2:AN:313:PRO:HA	1.99	0.44
3:BG:76:PHE:CE2	3:BG:304:ASN:OD1	2.70	0.44
3:BG:261:ILE:CG1	3:BG:285:MET:CG	2.76	0.44
3:BG:322:PHE:CE2	3:BO:325:ARG:HD3	2.53	0.44
3:BJ:175:TYR:HE1	3:BJ:237:LEU:HD22	1.79	0.44
3:BK:125:ALA:HB1	3:BK:223:LYS:HB2	1.98	0.44
3:BM:168:MET:HE2	3:BM:175:TYR:CZ	2.53	0.44
3:BN:186:SER:HB3	3:BN:246:ILE:HG13	1.98	0.44
3:BP:160:LEU:HD21	3:BP:283:ARG:O	2.17	0.44
3:BP:191:CYS:HG	3:BP:244:CYS:CB	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:9:LEU:C	4:BX:11:THR:N	2.71	0.44
4:BX:746:ARG:O	4:BX:747:SER:HB3	2.17	0.44
4:BY:274:ARG:HH22	4:BY:305:TYR:HD1	1.59	0.44
4:BY:307:ARG:NH1	4:BY:312:VAL:CG2	2.65	0.44
4:BY:680:GLU:CB	4:BY:682:PHE:HE1	2.30	0.44
4:BY:715:SER:HB3	4:BY:716:PRO:CD	2.42	0.44
4:BZ:632:ASN:HA	4:BZ:719:SER:OG	2.18	0.44
1:AA:183:LEU:HD11	1:AA:844:SER:HB3	2.00	0.44
1:AA:309:ASN:HA	1:AA:311:HIS:NE2	2.32	0.44
1:AA:469:ALA:C	2:AG:71:LEU:HD23	2.38	0.44
1:AB:134:TYR:CD2	1:AB:803:ASN:HB2	2.53	0.44
1:AB:138:GLY:O	1:AB:804:SER:HB3	2.17	0.44
1:AB:230:GLN:CD	1:AB:230:GLN:H	2.21	0.44
1:AB:339:LEU:CD2	1:AB:588:ILE:HD13	2.47	0.44
1:AB:380:LYS:O	1:AB:381:THR:C	2.56	0.44
1:AB:772:ILE:HB	1:AB:809:PHE:HE2	1.83	0.44
2:AC:34:PHE:O	2:AC:35:ASN:C	2.55	0.44
2:AC:225:LEU:HD13	2:AC:277:PHE:HD2	1.82	0.44
2:AD:225:LEU:HD13	2:AD:277:PHE:CD2	2.53	0.44
2:AE:227:PRO:HD3	2:AE:277:PHE:CG	2.53	0.44
2:AF:227:PRO:HD3	2:AF:277:PHE:CG	2.53	0.44
2:AF:239:ASN:OD1	3:BI:63:MET:SD	2.76	0.44
2:AG:227:PRO:HD3	2:AG:277:PHE:CG	2.53	0.44
2:AG:249:PHE:CE2	2:AG:251:PRO:HG3	2.53	0.44
2:AG:340:LYS:HD3	2:AG:342:MET:HE1	1.98	0.44
2:AH:5:TYR:HE2	2:AH:131:ASN:HA	1.78	0.44
2:AH:6:SER:O	2:AH:7:LEU:C	2.55	0.44
2:AI:22:THR:HB	2:AK:128:ASN:O	2.18	0.44
2:AI:31:ILE:O	2:AI:34:PHE:HB3	2.18	0.44
2:AI:144:ARG:HD2	2:AJ:82:ARG:CZ	2.48	0.44
2:AI:190:VAL:HG21	2:AI:210:HIS:HB2	1.99	0.44
2:AL:128:ASN:O	2:AL:129:PHE:CB	2.66	0.44
2:AL:144:ARG:HD2	2:AM:82:ARG:CZ	2.48	0.44
2:AM:35:ASN:O	2:AM:37:MET:N	2.50	0.44
3:BA:125:ALA:HB1	3:BA:223:LYS:CG	2.45	0.44
3:BI:75:THR:HG23	3:BI:79:SER:OG	2.18	0.44
3:BI:176:GLN:O	3:BI:176:GLN:HG3	2.18	0.44
3:BI:201:GLN:O	3:BI:202:THR:HB	2.18	0.44
3:BK:127:PHE:CZ	3:BK:140:VAL:HG21	2.52	0.44
3:BL:267:ASP:CG	3:BM:266:SER:HB3	2.38	0.44
3:BM:261:ILE:HG12	3:BM:285:MET:HG3	1.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BO:128:SER:HG	3:BO:224:LEU:HD22	1.71	0.44
3:BO:176:GLN:HG3	3:BO:176:GLN:O	2.17	0.44
3:BP:150:LEU:HD21	3:BQ:290:LYS:HB3	2.00	0.44
4:BX:25:ILE:HG21	4:BY:26:GLY:O	2.18	0.44
4:BX:32:ASN:CB	4:BY:484:ILE:HG22	2.31	0.44
4:BX:45:TYR:CZ	4:BX:475:PRO:HD3	2.49	0.44
4:BX:102:TRP:HB2	4:BX:145:LYS:HG2	1.98	0.44
4:BX:525:LEU:O	4:BX:525:LEU:HG	2.17	0.44
4:BX:590:ALA:O	4:BX:591:TRP:C	2.56	0.44
4:BX:632:ASN:HA	4:BX:719:SER:OG	2.17	0.44
4:BY:261:LEU:CD1	4:BY:478:ASP:CB	2.95	0.44
4:BY:273:ILE:O	4:BY:463:GLU:HG3	2.18	0.44
4:BY:502:ARG:O	4:BY:505:PHE:N	2.51	0.44
4:BY:589:SER:H	4:BY:593:ASP:CG	2.18	0.44
4:BY:652:SER:HB2	4:BY:653:PRO:HD2	2.00	0.44
4:BY:694:ARG:NH2	4:BY:701:ILE:HG13	2.33	0.44
4:BY:750:ARG:O	4:BY:751:VAL:C	2.56	0.44
4:BZ:14:TYR:CD1	4:BZ:14:TYR:C	2.90	0.44
4:BZ:411:LEU:HD11	4:BZ:538:ILE:HG13	2.00	0.44
4:BZ:505:PHE:CE1	4:BZ:659:ILE:HD11	2.53	0.44
1:AA:314:PHE:CZ	1:AA:664:ARG:HG2	2.51	0.44
1:AA:876:ILE:HG22	1:AA:877:MET:HG2	1.99	0.44
1:AB:225:ILE:O	1:AB:226:ALA:O	2.35	0.44
1:AB:363:GLU:OE1	1:AB:366:PHE:HB2	2.18	0.44
1:AB:440:PHE:CE1	2:AH:68:THR:OG1	2.53	0.44
2:AC:225:LEU:HD13	2:AC:277:PHE:CD2	2.53	0.44
2:AD:97:MET:O	2:AD:101:VAL:HG13	2.18	0.44
2:AE:203:ALA:C	4:BY:775:ARG:CZ	2.85	0.44
2:AF:190:VAL:HG21	2:AF:210:HIS:HB2	1.99	0.44
2:AG:299:ASN:ND2	3:BK:71:THR:OG1	2.50	0.44
2:AH:89:VAL:O	2:AH:91:PHE:N	2.51	0.44
2:AH:273:TYR:C	2:AH:274:GLN:HE21	2.21	0.44
2:AJ:227:PRO:HD3	2:AJ:277:PHE:CG	2.53	0.44
2:AJ:239:ASN:ND2	3:BM:65:THR:CA	2.71	0.44
2:AK:57:ARG:NH1	2:AK:94:ASN:HD21	2.07	0.44
2:AL:23:LEU:O	2:AL:26:ASN:ND2	2.51	0.44
2:AL:89:VAL:O	2:AL:91:PHE:N	2.51	0.44
2:AM:306:ALA:HB1	3:BO:282:GLU:OE2	2.10	0.44
3:BF:178:THR:N	3:BF:182:ASN:HD22	2.13	0.44
3:BG:159:ILE:HG21	3:BG:258:VAL:HG21	1.99	0.44
3:BH:107:LEU:HD23	3:BH:111:TRP:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:160:LEU:HD21	3:BK:283:ARG:O	2.17	0.44
3:BL:150:LEU:CD2	3:BM:290:LYS:CA	2.95	0.44
3:BL:178:THR:HB	3:BL:179:ASP:OD1	2.18	0.44
3:BN:53:TYR:O	3:BN:53:TYR:CG	2.71	0.44
3:BN:57:LEU:HD12	3:BN:58:PRO:HD2	1.99	0.44
3:BN:307:ILE:HD13	3:BN:310:MET:CE	2.46	0.44
3:BQ:178:THR:HB	3:BQ:179:ASP:OD1	2.18	0.44
3:BQ:275:PRO:HD2	3:BQ:276:THR:N	2.31	0.44
4:BX:585:GLY:HA2	4:BX:706:GLN:NE2	2.32	0.44
4:BX:616:SER:O	4:BX:620:ARG:HG2	2.18	0.44
4:BX:643:THR:O	4:BX:646:ASP:HB3	2.17	0.44
4:BY:7:ARG:HD2	4:BY:625:ALA:C	2.38	0.44
4:BY:278:ALA:HB2	4:BY:299:ALA:HB2	2.00	0.44
4:BY:525:LEU:HD12	4:BY:529:SER:HB2	1.98	0.44
4:BY:617:ARG:NE	4:BY:620:ARG:HH21	2.16	0.44
4:BY:618:ARG:O	4:BY:622:LYS:HB2	2.18	0.44
4:BY:661:THR:O	4:BY:664:SER:N	2.51	0.44
4:BY:693:TYR:CE2	4:BY:724:PHE:CD2	3.06	0.44
4:BZ:16:VAL:HG21	4:BZ:553:LYS:HE2	2.00	0.44
4:BZ:514:MET:SD	4:BZ:764:ARG:HD3	2.58	0.44
4:BZ:585:GLY:CA	4:BZ:709:ALA:CB	2.96	0.44
1:AA:125:ILE:HD13	1:AA:248:ILE:HG22	1.99	0.44
1:AA:405:ILE:HA	1:AA:408:MET:SD	2.58	0.44
1:AA:421:ARG:C	1:AA:423:SER:H	2.21	0.44
1:AA:521:MET:CB	1:AA:522:PRO:HD3	2.28	0.44
1:AA:765:PHE:CE1	1:AA:767:THR:HG23	2.53	0.44
1:AA:786:ILE:H	1:AA:786:ILE:HG13	1.53	0.44
1:AB:205:ALA:O	1:AB:206:ALA:C	2.56	0.44
1:AB:275:PRO:HD2	1:AB:278:ILE:CD1	2.47	0.44
1:AB:275:PRO:C	1:AB:277:ARG:H	2.21	0.44
2:AC:48:THR:HG22	2:AC:115:SER:OG	2.18	0.44
2:AD:124:PHE:CD1	2:AD:124:PHE:N	2.86	0.44
2:AD:312:GLN:HB3	2:AD:313:PRO:HA	1.99	0.44
2:AE:89:VAL:O	2:AE:91:PHE:N	2.51	0.44
2:AF:22:THR:HB	2:AH:128:ASN:O	2.18	0.44
2:AF:89:VAL:O	2:AF:91:PHE:N	2.51	0.44
2:AG:190:VAL:HG21	2:AG:210:HIS:HB2	1.99	0.44
2:AH:169:SER:HA	2:AH:176:LEU:HD23	2.00	0.44
2:AJ:312:GLN:HB3	2:AJ:313:PRO:HA	1.99	0.44
2:AK:135:TYR:CZ	2:AK:342:MET:HE3	2.52	0.44
2:AK:225:LEU:HD13	2:AK:277:PHE:CD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:249:PHE:CE2	2:AK:251:PRO:HG3	2.53	0.44
2:AL:1:MET:O	2:AL:2:ASP:C	2.56	0.44
2:AL:31:ILE:O	2:AL:34:PHE:HB3	2.18	0.44
2:AL:310:ASN:HB3	3:BP:180:GLU:CD	2.38	0.44
3:BA:70:SER:O	3:BA:71:THR:HB	2.17	0.44
3:BA:191:CYS:HG	3:BA:244:CYS:CB	2.30	0.44
3:BF:178:THR:HB	3:BF:179:ASP:OD1	2.18	0.44
3:BG:83:LEU:CD2	3:BG:139:VAL:HG13	2.43	0.44
3:BH:130:ASP:O	3:BH:132:GLN:CG	2.66	0.44
3:BH:178:THR:HB	3:BH:179:ASP:OD1	2.18	0.44
3:BJ:126:SER:HA	3:BJ:223:LYS:HZ2	1.73	0.44
3:BJ:160:LEU:HD21	3:BJ:283:ARG:O	2.17	0.44
3:BJ:186:SER:HB3	3:BJ:246:ILE:HG13	1.98	0.44
3:BK:83:LEU:CD2	3:BK:139:VAL:HG13	2.43	0.44
3:BK:170:ILE:HD11	3:BK:239:VAL:HG21	1.98	0.44
3:BK:263:VAL:CG1	3:BK:289:TRP:HD1	2.28	0.44
3:BL:247:ARG:HE	3:BL:247:ARG:HB3	1.50	0.44
3:BP:314:SER:HB2	3:BP:315:ARG:HD3	1.99	0.44
4:BX:40:PHE:CD1	4:BX:41:ALA:N	2.86	0.44
4:BX:271:ILE:HG12	4:BX:272:THR:N	2.32	0.44
4:BX:645:ILE:O	4:BX:645:ILE:HG22	2.17	0.44
4:BX:706:GLN:O	4:BX:709:ALA:N	2.51	0.44
4:BY:504:GLU:OE1	4:BY:650:GLN:HG3	2.18	0.44
4:BY:519:ASP:C	4:BY:521:ALA:N	2.70	0.44
4:BY:553:LYS:O	4:BY:554:LYS:HB2	2.18	0.44
4:BY:585:GLY:CA	4:BY:709:ALA:CB	2.94	0.44
4:BY:633:PHE:CZ	4:BY:671:ARG:HB2	2.53	0.44
4:BZ:393:GLN:NE2	4:BZ:393:GLN:HA	2.32	0.44
4:BZ:541:ALA:CA	4:BZ:544:MET:HB2	2.47	0.44
4:BZ:616:SER:O	4:BZ:617:ARG:C	2.56	0.44
4:BZ:619:LEU:O	4:BZ:623:GLU:CG	2.66	0.44
4:BZ:734:TYR:CZ	4:BZ:761:PRO:CG	3.00	0.44
1:AA:308:LEU:HD22	1:AA:668:ARG:CB	2.47	0.43
1:AA:314:PHE:CE2	1:AA:664:ARG:HB3	2.53	0.43
1:AA:317:LEU:CD2	1:AA:652:PHE:CD2	2.97	0.43
1:AA:360:ILE:O	1:AA:363:GLU:HG3	2.18	0.43
1:AB:525:TYR:O	1:AB:529:ILE:HG13	2.18	0.43
1:AB:721:VAL:CG1	1:AB:722:ASN:H	2.26	0.43
1:AB:811:LEU:H	1:AB:811:LEU:CD2	2.25	0.43
2:AC:31:ILE:O	2:AC:34:PHE:HB3	2.18	0.43
2:AC:136:ILE:HG23	2:AC:137:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:217:VAL:HG22	2:AC:286:ASP:HB3	1.99	0.43
2:AD:122:ILE:HG23	2:AD:123:LYS:N	2.33	0.43
2:AD:190:VAL:HG21	2:AD:210:HIS:HB2	1.99	0.43
2:AD:249:PHE:CE2	2:AD:251:PRO:HG3	2.53	0.43
2:AD:273:TYR:C	2:AD:274:GLN:HE21	2.21	0.43
2:AE:122:ILE:HG23	2:AE:123:LYS:N	2.33	0.43
2:AE:225:LEU:HD13	2:AE:277:PHE:CD2	2.53	0.43
2:AF:144:ARG:HD2	2:AG:82:ARG:CZ	2.48	0.43
2:AF:150:PHE:O	2:AF:330:VAL:HG13	2.18	0.43
2:AF:151:THR:C	2:AF:152:PHE:CD1	2.92	0.43
2:AG:312:GLN:HB3	2:AG:313:PRO:HA	1.99	0.43
2:AH:35:ASN:O	2:AH:37:MET:N	2.51	0.43
2:AK:169:SER:HA	2:AK:176:LEU:HD23	2.00	0.43
2:AL:151:THR:C	2:AL:152:PHE:CD1	2.92	0.43
2:AM:169:SER:HA	2:AM:176:LEU:HD23	2.00	0.43
2:AM:273:TYR:C	2:AM:274:GLN:HE21	2.21	0.43
2:AN:122:ILE:HG23	2:AN:123:LYS:N	2.33	0.43
2:AN:169:SER:HA	2:AN:176:LEU:HD23	2.00	0.43
2:AN:249:PHE:CE2	2:AN:251:PRO:HG3	2.53	0.43
2:AO:141:LEU:HD12	2:AO:148:THR:HG21	1.99	0.43
3:BG:275:PRO:HD2	3:BG:276:THR:N	2.31	0.43
3:BH:197:PRO:HG2	3:BH:205:ILE:HG23	1.99	0.43
3:BH:275:PRO:HD2	3:BH:276:THR:N	2.31	0.43
3:BH:289:TRP:HZ3	3:BH:292:TRP:CE2	2.36	0.43
3:BJ:83:LEU:CD2	3:BJ:139:VAL:HG13	2.44	0.43
3:BJ:107:LEU:HD23	3:BJ:111:TRP:O	2.18	0.43
3:BJ:174:TYR:CG	3:BJ:198:LEU:HD11	2.53	0.43
3:BK:108:THR:HG23	3:BK:109:LYS:H	1.78	0.43
3:BK:178:THR:HB	3:BK:179:ASP:OD1	2.18	0.43
3:BL:150:LEU:CD2	3:BM:290:LYS:HG2	2.46	0.43
3:BL:275:PRO:HD2	3:BL:276:THR:N	2.31	0.43
3:BO:174:TYR:CD1	3:BO:198:LEU:HD13	2.34	0.43
3:BO:201:GLN:O	3:BO:202:THR:HB	2.18	0.43
4:BX:278:ALA:HB2	4:BX:299:ALA:HB2	2.00	0.43
4:BX:516:GLN:NE2	4:BX:516:GLN:N	2.66	0.43
4:BX:516:GLN:NE2	4:BX:516:GLN:H	2.15	0.43
4:BX:517:LEU:O	4:BX:518:ILE:C	2.56	0.43
4:BX:691:PHE:N	4:BX:691:PHE:HD1	2.13	0.43
4:BY:270:ASP:O	4:BY:307:ARG:NH1	2.51	0.43
4:BY:559:ASN:O	4:BY:560:SER:C	2.57	0.43
4:BY:567:SER:O	4:BY:571:ALA:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:568:LEU:HD23	4:BY:590:ALA:CB	2.48	0.43
4:BY:616:SER:O	4:BY:617:ARG:C	2.57	0.43
4:BZ:559:ASN:O	4:BZ:560:SER:C	2.56	0.43
1:AA:156:PRO:HB2	1:AA:157:ASP:H	1.65	0.43
1:AA:546:LEU:HA	1:AA:546:LEU:HD23	1.82	0.43
1:AA:552:TYR:O	1:AA:553:ASN:C	2.57	0.43
1:AA:593:VAL:HG12	1:AA:594:ILE:N	2.33	0.43
1:AA:721:VAL:CG1	1:AA:800:TYR:H	2.31	0.43
1:AB:98:PHE:CE1	1:AB:653:ASP:HB3	2.53	0.43
1:AB:297:ARG:HG3	1:AB:848:PHE:HD2	1.82	0.43
1:AB:321:ILE:O	1:AB:322:THR:C	2.56	0.43
1:AB:770:SER:O	1:AB:773:SER:HB2	2.18	0.43
1:AB:790:ARG:HA	1:AB:790:ARG:HE	0.59	0.43
2:AC:150:PHE:N	2:AC:150:PHE:CD1	2.85	0.43
2:AD:136:ILE:HG23	2:AD:137:GLU:N	2.33	0.43
2:AE:273:TYR:C	2:AE:274:GLN:HE21	2.21	0.43
2:AG:1:MET:C	2:AG:3:VAL:N	2.70	0.43
2:AH:227:PRO:HD3	2:AH:277:PHE:CG	2.53	0.43
2:AH:249:PHE:CE2	2:AH:251:PRO:HG3	2.53	0.43
2:AI:48:THR:HG22	2:AI:115:SER:OG	2.18	0.43
2:AI:150:PHE:O	2:AI:330:VAL:HG13	2.18	0.43
2:AI:225:LEU:HD13	2:AI:277:PHE:HD2	1.82	0.43
2:AJ:171:PRO:CB	3:BM:312:LYS:NZ	2.80	0.43
2:AK:66:LEU:HB3	2:AK:77:TYR:OH	2.18	0.43
2:AK:227:PRO:HD3	2:AK:277:PHE:CG	2.53	0.43
2:AL:225:LEU:HD13	2:AL:277:PHE:CD2	2.53	0.43
2:AM:22:THR:O	2:AM:72:ASN:HA	2.17	0.43
2:AO:5:TYR:O	2:AO:6:SER:C	2.57	0.43
2:AO:31:ILE:O	2:AO:34:PHE:HB3	2.18	0.43
2:AO:99:GLU:HG3	2:AO:99:GLU:O	2.18	0.43
2:AO:227:PRO:HD3	2:AO:277:PHE:CG	2.53	0.43
3:BF:262:GLN:CG	3:BF:267:ASP:OD2	2.65	0.43
3:BG:55:ILE:HG12	3:BO:53:TYR:HA	2.00	0.43
3:BG:179:ASP:C	3:BG:181:ALA:H	2.19	0.43
3:BG:201:GLN:O	3:BG:202:THR:HB	2.18	0.43
3:BH:170:ILE:CG2	3:BH:237:LEU:O	2.67	0.43
3:BH:252:LEU:O	3:BH:253:GLY:O	2.36	0.43
3:BI:160:LEU:HD21	3:BI:283:ARG:O	2.17	0.43
3:BI:288:ASN:CB	3:BK:270:ASP:HB3	2.40	0.43
3:BI:289:TRP:C	3:BK:150:LEU:HD22	2.36	0.43
3:BK:59:ILE:HG22	3:BK:60:THR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BK:73:GLU:O	3:BK:73:GLU:CG	2.63	0.43
3:BK:107:LEU:HD23	3:BK:111:TRP:O	2.18	0.43
3:BM:268:VAL:HG11	3:BN:266:SER:CA	2.38	0.43
3:BN:107:LEU:HD23	3:BN:111:TRP:O	2.18	0.43
3:BN:170:ILE:HA	3:BN:175:TYR:HH	1.83	0.43
3:BP:175:TYR:O	3:BP:235:HIS:N	2.44	0.43
3:BQ:201:GLN:O	3:BQ:202:THR:HB	2.18	0.43
3:BQ:302:TYR:O	3:BQ:306:ILE:HG13	2.18	0.43
4:BX:13:SER:C	4:BX:15:THR:N	2.71	0.43
4:BX:361:ALA:HA	4:BX:364:ASN:HD22	1.83	0.43
4:BX:647:ARG:HH11	4:BZ:573:SER:HB2	1.83	0.43
4:BY:303:TYR:OH	4:BY:316:THR:CG2	2.66	0.43
4:BZ:1:MET:O	4:BZ:2:ALA:C	2.57	0.43
4:BZ:19:SER:OG	4:BZ:20:ASP:N	2.51	0.43
4:BZ:264:GLU:HG2	4:BZ:473:LEU:HA	1.99	0.43
1:AA:394:LEU:HD12	1:AA:423:SER:OG	2.18	0.43
1:AA:720:TYR:CE1	1:AA:819:PRO:HG2	2.53	0.43
1:AA:770:SER:O	1:AA:772:ILE:N	2.51	0.43
1:AA:774:LEU:O	1:AA:777:LYS:N	2.45	0.43
1:AB:122:LEU:O	1:AB:123:PHE:CB	2.65	0.43
1:AB:182:LEU:HD11	1:AB:848:PHE:HD1	1.83	0.43
1:AB:204:THR:HG23	1:AB:244:ILE:HG22	1.97	0.43
1:AB:421:ARG:O	1:AB:425:VAL:HG23	2.18	0.43
1:AB:433:ASN:C	1:AB:435:ILE:N	2.71	0.43
1:AB:460:GLU:O	1:AB:461:GLN:C	2.55	0.43
1:AB:609:ASN:O	1:AB:610:PHE:C	2.56	0.43
1:AB:696:SER:O	1:AB:827:LYS:HE3	2.18	0.43
2:AE:169:SER:HA	2:AE:176:LEU:HD23	2.00	0.43
2:AE:312:GLN:HB3	2:AE:313:PRO:HA	1.99	0.43
2:AF:273:TYR:C	2:AF:274:GLN:HE21	2.20	0.43
2:AJ:97:MET:O	2:AJ:101:VAL:HG13	2.18	0.43
2:AJ:124:PHE:CD1	2:AJ:124:PHE:N	2.86	0.43
2:AJ:306:ALA:CB	3:BN:282:GLU:OE2	2.65	0.43
2:AL:22:THR:HB	2:AN:128:ASN:O	2.18	0.43
2:AM:97:MET:O	2:AM:101:VAL:HG13	2.18	0.43
2:AM:312:GLN:HB3	2:AM:313:PRO:HA	1.99	0.43
2:AM:340:LYS:HD3	2:AM:342:MET:HE1	1.99	0.43
2:AO:31:ILE:HG21	2:AO:68:THR:HG22	2.00	0.43
2:AO:169:SER:HA	2:AO:176:LEU:HD23	2.00	0.43
2:AO:273:TYR:C	2:AO:274:GLN:HE21	2.21	0.43
3:BG:150:LEU:CD2	3:BH:290:LYS:CA	2.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BG:313:ARG:CG	3:BO:322:PHE:CE1	2.99	0.43
3:BH:88:GLU:OE1	3:BH:143:LYS:NZ	2.44	0.43
3:BI:159:ILE:HG21	3:BI:258:VAL:HG21	2.00	0.43
3:BJ:137:TYR:CD2	3:BJ:310:MET:CG	3.02	0.43
3:BJ:201:GLN:O	3:BJ:202:THR:HB	2.18	0.43
3:BK:111:TRP:HA	3:BK:112:PRO:HD2	1.85	0.43
3:BK:159:ILE:HG21	3:BK:258:VAL:HG21	1.99	0.43
3:BK:174:TYR:CG	3:BK:198:LEU:HD11	2.53	0.43
3:BL:158:LEU:CD2	3:BL:185:ILE:HD13	2.44	0.43
3:BL:201:GLN:O	3:BL:202:THR:HB	2.17	0.43
3:BL:302:TYR:O	3:BL:306:ILE:HG13	2.19	0.43
3:BM:148:LEU:HD22	3:BM:151:ASP:OD2	2.17	0.43
3:BM:261:ILE:CG1	3:BM:285:MET:CG	2.75	0.43
3:BO:76:PHE:CG	3:BO:110:GLY:O	2.71	0.43
3:BO:119:LYS:HD3	3:BO:119:LYS:N	2.34	0.43
3:BO:170:ILE:CG2	3:BO:237:LEU:O	2.67	0.43
3:BP:107:LEU:HD23	3:BP:111:TRP:O	2.18	0.43
3:BP:119:LYS:N	3:BP:119:LYS:HD3	2.34	0.43
3:BP:191:CYS:N	3:BP:244:CYS:SG	2.91	0.43
3:BQ:174:TYR:CG	3:BQ:198:LEU:HD11	2.53	0.43
4:BX:2:ALA:HB3	4:BX:635:ASP:HA	1.98	0.43
4:BX:72:THR:CG2	4:BX:333:LEU:HD13	2.44	0.43
4:BX:321:ASN:HB2	4:BX:352:TYR:HE1	1.84	0.43
4:BX:633:PHE:O	4:BX:636:ILE:HB	2.18	0.43
4:BX:693:TYR:OH	4:BX:724:PHE:CB	2.64	0.43
4:BY:617:ARG:CA	4:BY:620:ARG:HE	2.06	0.43
4:BY:641:LEU:HB3	4:BY:645:ILE:HD12	2.00	0.43
4:BY:662:GLU:HA	4:BY:665:GLU:CD	2.38	0.43
4:BY:683:GLU:O	4:BY:690:PHE:HA	2.18	0.43
4:BZ:776:LEU:O	4:BZ:776:LEU:CG	2.59	0.43
1:AA:326:TYR:CD1	1:AA:384:ALA:HB1	2.53	0.43
1:AA:757:VAL:CG1	1:AA:758:ALA:H	2.31	0.43
1:AA:769:SER:CB	1:AA:807:ASN:OD1	2.65	0.43
1:AB:437:TYR:HD2	1:AB:443:GLN:HB3	1.83	0.43
1:AB:639:LYS:O	1:AB:640:SER:C	2.56	0.43
1:AB:671:LEU:O	1:AB:672:LEU:HD23	2.19	0.43
2:AC:2:ASP:O	2:AC:5:TYR:HB3	2.18	0.43
2:AC:128:ASN:O	2:AC:129:PHE:CB	2.66	0.43
2:AD:1:MET:O	2:AD:4:LEU:N	2.51	0.43
2:AD:66:LEU:HD23	2:AD:66:LEU:HA	1.71	0.43
2:AE:217:VAL:HG22	2:AE:286:ASP:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AF:1:MET:O	2:AF:4:LEU:HB3	2.18	0.43
2:AF:169:SER:HA	2:AF:176:LEU:HD23	2.00	0.43
2:AG:10:THR:O	2:AG:14:ALA:HB2	2.18	0.43
2:AG:104:SER:O	2:AG:108:GLY:HA3	2.18	0.43
2:AG:225:LEU:HD13	2:AG:277:PHE:CD2	2.53	0.43
2:AH:5:TYR:O	2:AH:6:SER:C	2.57	0.43
2:AH:122:ILE:HG23	2:AH:123:LYS:N	2.33	0.43
2:AI:168:ARG:CG	2:AI:177:MET:HB3	2.49	0.43
2:AI:169:SER:HA	2:AI:176:LEU:HD23	2.00	0.43
2:AK:23:LEU:O	2:AK:26:ASN:ND2	2.51	0.43
2:AK:122:ILE:HG23	2:AK:123:LYS:N	2.33	0.43
2:AL:2:ASP:O	2:AL:5:TYR:HB3	2.18	0.43
2:AM:225:LEU:HD13	2:AM:277:PHE:CD2	2.53	0.43
2:AN:5:TYR:O	2:AN:6:SER:C	2.57	0.43
2:AN:69:THR:O	2:AN:70:LEU:HG	2.18	0.43
2:AN:227:PRO:HD3	2:AN:277:PHE:CG	2.53	0.43
2:AO:23:LEU:HD23	2:AO:23:LEU:C	2.35	0.43
2:AO:225:LEU:HD13	2:AO:277:PHE:CD2	2.53	0.43
3:BA:191:CYS:N	3:BA:244:CYS:SG	2.91	0.43
3:BF:107:LEU:HD23	3:BF:111:TRP:O	2.18	0.43
3:BG:150:LEU:HD22	3:BH:289:TRP:C	2.33	0.43
3:BI:174:TYR:CG	3:BI:198:LEU:HD11	2.53	0.43
3:BI:191:CYS:N	3:BI:244:CYS:SG	2.91	0.43
3:BI:290:LYS:CB	3:BK:150:LEU:CD2	2.96	0.43
3:BJ:191:CYS:HG	3:BJ:244:CYS:CB	2.30	0.43
3:BN:191:CYS:N	3:BN:244:CYS:SG	2.91	0.43
3:BO:268:VAL:CG2	3:BP:266:SER:HB2	2.49	0.43
3:BO:315:ARG:O	3:BO:325:ARG:HA	2.18	0.43
4:BX:38:GLY:HA2	4:BX:39:PRO:HD3	1.60	0.43
4:BX:549:MET:O	4:BX:552:PHE:N	2.52	0.43
4:BY:5:ILE:CG2	4:BY:525:LEU:O	2.66	0.43
4:BY:499:GLY:O	4:BY:500:GLU:O	2.36	0.43
4:BY:500:GLU:O	4:BY:502:ARG:N	2.51	0.43
4:BY:516:GLN:NE2	4:BY:516:GLN:N	2.66	0.43
4:BZ:683:GLU:O	4:BZ:690:PHE:HA	2.18	0.43
1:AA:421:ARG:O	1:AA:425:VAL:HG23	2.18	0.43
1:AA:554:TYR:OH	1:AA:558:MET:HE1	2.19	0.43
1:AA:608:VAL:O	1:AA:609:ASN:C	2.57	0.43
1:AA:653:ASP:O	1:AA:657:VAL:HG22	2.19	0.43
1:AA:672:LEU:HA	1:AA:673:PRO:HD3	1.78	0.43
1:AA:716:GLU:HG3	1:AA:717:MET:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:140:LYS:C	1:AB:142:LEU:N	2.71	0.43
1:AB:246:HIS:CD2	1:AB:248:ILE:N	2.83	0.43
1:AB:529:ILE:O	1:AB:533:ILE:HG13	2.19	0.43
1:AB:544:VAL:CG1	1:AB:548:ARG:HH21	2.31	0.43
2:AC:249:PHE:CE2	2:AC:251:PRO:HG3	2.53	0.43
2:AC:356:PRO:HA	4:BY:734:TYR:C	2.33	0.43
2:AD:14:ALA:C	2:AD:16:ASP:N	2.71	0.43
2:AF:23:LEU:O	2:AF:26:ASN:ND2	2.51	0.43
2:AG:14:ALA:C	2:AG:16:ASP:N	2.71	0.43
2:AG:122:ILE:HG23	2:AG:123:LYS:N	2.33	0.43
2:AH:217:VAL:HG22	2:AH:286:ASP:HB3	2.00	0.43
2:AI:10:THR:O	2:AI:14:ALA:HB2	2.19	0.43
2:AI:89:VAL:O	2:AI:91:PHE:N	2.51	0.43
2:AI:163:SER:HB3	2:AI:181:TRP:CZ2	2.54	0.43
2:AJ:10:THR:O	2:AJ:14:ALA:HB2	2.18	0.43
2:AJ:249:PHE:CE2	2:AJ:251:PRO:HG3	2.53	0.43
2:AM:217:VAL:HG22	2:AM:286:ASP:HB3	1.99	0.43
2:AN:23:LEU:O	2:AN:26:ASN:ND2	2.51	0.43
2:AN:163:SER:HB2	3:BO:62:SER:HA	2.00	0.43
2:AO:217:VAL:HG22	2:AO:286:ASP:HB3	1.99	0.43
3:BA:170:ILE:CG2	3:BA:237:LEU:O	2.67	0.43
3:BG:132:GLN:O	3:BG:133:LEU:C	2.56	0.43
3:BI:178:THR:HB	3:BI:179:ASP:OD1	2.18	0.43
3:BL:107:LEU:HD23	3:BL:111:TRP:O	2.18	0.43
3:BL:119:LYS:HD3	3:BL:119:LYS:N	2.34	0.43
3:BL:129:VAL:HG21	3:BL:223:LYS:HZ3	1.83	0.43
3:BM:168:MET:HE2	3:BM:175:TYR:CE2	2.54	0.43
3:BM:302:TYR:O	3:BM:306:ILE:HG13	2.19	0.43
3:BN:158:LEU:CD2	3:BN:185:ILE:HD13	2.44	0.43
3:BN:315:ARG:O	3:BN:316:SER:HB2	2.19	0.43
3:BN:316:SER:O	3:BN:317:LEU:HB2	2.19	0.43
3:BN:323:TYR:HB3	3:BN:324:TYR:H	1.69	0.43
3:BO:76:PHE:HE2	3:BO:111:TRP:HE1	1.63	0.43
3:BO:150:LEU:HD21	3:BP:290:LYS:HB3	2.01	0.43
4:BX:251:ASN:HA	4:BY:268:ASN:O	2.19	0.43
4:BX:255:VAL:HG13	4:BX:257:SER:O	2.18	0.43
4:BX:748:ASP:OD1	4:BX:748:ASP:C	2.55	0.43
4:BY:13:SER:O	4:BY:15:THR:N	2.52	0.43
4:BY:611:GLN:O	4:BY:615:ILE:N	2.42	0.43
4:BY:626:THR:CG2	4:BY:627:GLN:HG3	2.38	0.43
4:BY:776:LEU:O	4:BY:776:LEU:CG	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:601:VAL:HG12	4:BZ:602:SER:N	2.34	0.43
1:AA:252:PHE:O	1:AA:253:ASN:C	2.57	0.43
1:AA:314:PHE:CZ	1:AA:664:ARG:HG3	2.46	0.43
1:AA:527:ARG:HH11	1:AA:527:ARG:CG	2.28	0.43
1:AA:563:MET:O	1:AA:564:ASN:C	2.56	0.43
1:AB:87:GLN:C	1:AB:89:GLU:N	2.71	0.43
1:AB:292:LEU:HA	1:AB:293:PRO:HD3	1.88	0.43
1:AB:319:ASP:OD2	1:AB:572:THR:N	2.52	0.43
1:AB:422:GLU:O	1:AB:425:VAL:CB	2.66	0.43
1:AB:486:ASP:C	1:AB:488:VAL:N	2.72	0.43
1:AB:552:TYR:O	1:AB:553:ASN:C	2.57	0.43
1:AB:665:LEU:HD12	1:AB:665:LEU:HA	1.87	0.43
1:AB:735:LEU:O	1:AB:736:GLU:C	2.56	0.43
2:AC:1:MET:O	2:AC:2:ASP:C	2.56	0.43
2:AC:10:THR:O	2:AC:14:ALA:HB2	2.18	0.43
2:AC:33:GLN:O	2:AC:36:GLN:HB3	2.19	0.43
2:AC:78:VAL:O	2:AC:81:ALA:N	2.42	0.43
2:AD:227:PRO:HD3	2:AD:277:PHE:CG	2.53	0.43
2:AE:150:PHE:HB2	2:AE:152:PHE:CZ	2.52	0.43
2:AF:10:THR:O	2:AF:14:ALA:HB2	2.19	0.43
2:AG:2:ASP:O	2:AG:5:TYR:HB3	2.19	0.43
2:AG:124:PHE:CD1	2:AG:124:PHE:N	2.86	0.43
2:AI:1:MET:O	2:AI:4:LEU:HB3	2.18	0.43
2:AJ:1:MET:O	2:AJ:4:LEU:N	2.51	0.43
2:AJ:313:PRO:HD2	3:BM:279:PRO:HB2	1.98	0.43
2:AL:169:SER:HA	2:AL:176:LEU:HD23	2.00	0.43
2:AM:122:ILE:HG23	2:AM:123:LYS:N	2.33	0.43
3:BA:201:GLN:O	3:BA:202:THR:HB	2.18	0.43
3:BF:106:PHE:CE2	3:BF:303:VAL:HG21	2.54	0.43
3:BF:137:TYR:CD2	3:BF:310:MET:CG	3.01	0.43
3:BF:186:SER:HB3	3:BF:246:ILE:CB	2.49	0.43
3:BG:129:VAL:CA	3:BG:187:MET:SD	3.04	0.43
3:BG:137:TYR:CD2	3:BG:310:MET:CG	3.01	0.43
3:BG:172:LEU:HB3	3:BG:173:TYR:CE1	2.53	0.43
3:BI:107:LEU:HD23	3:BI:111:TRP:O	2.18	0.43
3:BI:119:LYS:HD3	3:BI:119:LYS:N	2.34	0.43
3:BJ:119:LYS:N	3:BJ:119:LYS:HD3	2.34	0.43
3:BK:148:LEU:O	3:BK:151:ASP:HB2	2.19	0.43
3:BL:106:PHE:CE2	3:BL:303:VAL:HG21	2.54	0.43
3:BL:159:ILE:CG1	3:BL:160:LEU:H	2.28	0.43
3:BM:107:LEU:HD23	3:BM:111:TRP:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BM:160:LEU:HA	3:BM:258:VAL:HG11	2.01	0.43
3:BO:106:PHE:CE2	3:BO:303:VAL:HG21	2.54	0.43
3:BO:174:TYR:CG	3:BO:198:LEU:HD11	2.53	0.43
3:BO:302:TYR:O	3:BO:306:ILE:HG13	2.19	0.43
3:BP:125:ALA:HB1	3:BP:223:LYS:HB2	1.99	0.43
3:BP:201:GLN:O	3:BP:202:THR:HB	2.18	0.43
4:BX:29:LYS:CA	4:BY:33:VAL:HG12	2.48	0.43
4:BX:262:TRP:CB	4:BY:262:TRP:NE1	2.67	0.43
4:BX:680:GLU:CB	4:BX:682:PHE:HE1	2.32	0.43
4:BY:566:ASP:C	4:BY:568:LEU:H	2.22	0.43
4:BY:581:ILE:N	4:BY:597:GLN:OE1	2.52	0.43
4:BY:626:THR:HG23	4:BZ:524:PRO:HD2	1.96	0.43
4:BY:694:ARG:CZ	4:BY:701:ILE:HG21	2.47	0.43
4:BZ:592:THR:HG22	4:BZ:593:ASP:N	2.34	0.43
4:BZ:616:SER:O	4:BZ:620:ARG:N	2.49	0.43
4:BZ:620:ARG:O	4:BZ:622:LYS:N	2.51	0.43
4:BZ:661:THR:O	4:BZ:664:SER:N	2.50	0.43
4:BZ:693:TYR:HH	4:BZ:724:PHE:CB	2.31	0.43
4:BZ:752:LEU:O	4:BZ:756:ILE:HG22	2.19	0.43
1:AA:710:MET:CE	1:AA:824:LYS:HE2	2.48	0.43
1:AA:793:ASP:C	1:AA:795:LEU:N	2.72	0.43
1:AA:810:TYR:CD1	1:AA:810:TYR:C	2.92	0.43
1:AB:260:GLN:O	1:AB:261:LEU:C	2.56	0.43
1:AB:402:MET:O	1:AB:405:ILE:N	2.52	0.43
1:AB:496:ASN:HB3	1:AB:499:ASN:H	1.83	0.43
1:AB:810:TYR:C	1:AB:812:VAL:N	2.72	0.43
2:AD:51:ILE:O	2:AD:52:GLY:C	2.57	0.43
2:AD:99:GLU:HG3	2:AD:99:GLU:O	2.18	0.43
2:AE:78:VAL:O	2:AE:81:ALA:N	2.41	0.43
2:AF:1:MET:O	2:AF:2:ASP:C	2.56	0.43
2:AF:4:LEU:HA	2:AF:7:LEU:CD1	2.48	0.43
2:AF:140:ASN:O	2:AF:143:ASN:N	2.51	0.43
2:AI:151:THR:C	2:AI:152:PHE:CD1	2.92	0.43
2:AI:225:LEU:HD13	2:AI:277:PHE:CD2	2.53	0.43
2:AJ:78:VAL:O	2:AJ:81:ALA:N	2.41	0.43
2:AK:35:ASN:O	2:AK:37:MET:N	2.51	0.43
2:AM:10:THR:O	2:AM:14:ALA:HB2	2.18	0.43
2:AM:89:VAL:O	2:AM:91:PHE:N	2.52	0.43
2:AM:99:GLU:O	2:AM:99:GLU:HG3	2.19	0.43
2:AM:104:SER:O	2:AM:108:GLY:HA3	2.18	0.43
2:AM:136:ILE:HG23	2:AM:137:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:249:PHE:CE2	2:AM:251:PRO:HG3	2.53	0.43
2:AN:89:VAL:O	2:AN:91:PHE:N	2.51	0.43
2:AN:106:ARG:HB3	2:AN:107:ASN:H	1.62	0.43
2:AO:125:LYS:O	2:AO:127:ILE:N	2.52	0.43
3:BF:290:LYS:CG	3:BH:150:LEU:HD21	2.48	0.43
3:BF:302:TYR:O	3:BF:306:ILE:HG13	2.19	0.43
3:BH:196:CYS:HA	3:BH:197:PRO:HD2	1.83	0.43
3:BI:92:GLU:O	3:BI:92:GLU:HG2	2.19	0.43
3:BI:132:GLN:CA	3:BI:319:SER:CA	2.90	0.43
3:BI:150:LEU:CD2	3:BJ:290:LYS:CB	2.97	0.43
3:BI:170:ILE:CG2	3:BI:237:LEU:O	2.67	0.43
3:BJ:322:PHE:CE2	3:BL:313:ARG:CG	2.98	0.43
3:BK:119:LYS:N	3:BK:119:LYS:HD3	2.34	0.43
3:BK:186:SER:HB3	3:BK:246:ILE:CB	2.49	0.43
3:BK:252:LEU:CG	3:BK:253:GLY:H	2.07	0.43
3:BN:55:ILE:O	3:BN:56:ASN:ND2	2.52	0.43
3:BP:170:ILE:CG2	3:BP:237:LEU:O	2.67	0.43
3:BP:178:THR:HB	3:BP:179:ASP:OD1	2.18	0.43
3:BP:302:TYR:O	3:BP:306:ILE:HG13	2.19	0.43
3:BQ:92:GLU:HG2	3:BQ:92:GLU:O	2.19	0.43
3:BQ:247:ARG:HG3	3:BQ:248:ASN:N	2.34	0.43
4:BX:694:ARG:NH2	4:BX:701:ILE:CD1	2.82	0.43
4:BY:10:LEU:CD2	4:BY:552:PHE:HD2	2.27	0.43
4:BY:357:ASP:HB2	4:BY:358:ASP:H	1.70	0.43
4:BY:701:ILE:HD13	4:BY:701:ILE:C	2.38	0.43
4:BZ:13:SER:O	4:BZ:15:THR:N	2.51	0.43
4:BZ:527:MET:HA	4:BZ:527:MET:HE3	2.00	0.43
4:BZ:593:ASP:O	4:BZ:596:THR:N	2.52	0.43
1:AA:108:LEU:CD2	1:AA:651:ILE:HD11	2.49	0.43
1:AA:253:ASN:CA	1:AA:256:PHE:HD1	2.31	0.43
1:AA:558:MET:O	1:AA:559:ALA:C	2.57	0.43
1:AB:96:PRO:HG2	1:AB:657:VAL:HG22	2.00	0.43
1:AB:305:GLN:HE21	1:AB:564:ASN:ND2	2.17	0.43
1:AB:332:VAL:O	1:AB:333:VAL:C	2.57	0.43
1:AB:340:VAL:HB	1:AB:587:LEU:CD1	2.49	0.43
2:AC:363:PRO:HB3	4:BY:734:TYR:CE2	2.54	0.43
2:AD:1:MET:C	2:AD:3:VAL:N	2.70	0.43
2:AD:169:SER:HA	2:AD:176:LEU:HD23	2.00	0.43
2:AE:136:ILE:HG23	2:AE:137:GLU:N	2.34	0.43
2:AF:225:LEU:HD13	2:AF:277:PHE:CD2	2.53	0.43
2:AI:2:ASP:O	2:AI:5:TYR:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:2:ASP:O	2:AK:3:VAL:C	2.57	0.43
2:AK:128:ASN:O	2:AK:129:PHE:CB	2.67	0.43
2:AL:2:ASP:O	2:AL:3:VAL:C	2.58	0.43
2:AM:5:TYR:O	2:AM:6:SER:C	2.57	0.43
2:AN:35:ASN:O	2:AN:37:MET:N	2.51	0.43
3:BA:99:LYS:HB3	3:BA:118:PHE:CD1	2.54	0.43
3:BA:186:SER:HB3	3:BA:246:ILE:CB	2.49	0.43
3:BF:319:SER:O	3:BF:320:ALA:O	2.36	0.43
3:BH:83:LEU:CD2	3:BH:139:VAL:HG13	2.43	0.43
3:BJ:261:ILE:HG12	3:BJ:285:MET:HG3	1.89	0.43
3:BM:186:SER:HB3	3:BM:246:ILE:CB	2.49	0.43
3:BN:119:LYS:HG3	3:BN:134:TYR:CE1	2.53	0.43
3:BO:178:THR:HB	3:BO:179:ASP:OD1	2.18	0.43
3:BO:178:THR:N	3:BO:182:ASN:HD22	2.13	0.43
3:BP:125:ALA:HB1	3:BP:223:LYS:CG	2.45	0.43
3:BP:186:SER:HB3	3:BP:246:ILE:CB	2.49	0.43
3:BP:197:PRO:HG2	3:BP:205:ILE:HG23	1.99	0.43
4:BX:14:TYR:CD1	4:BX:14:TYR:C	2.92	0.43
4:BX:35:ILE:CG1	4:BY:37:LEU:CD1	2.69	0.43
4:BX:542:LYS:C	4:BX:544:MET:H	2.22	0.43
4:BX:589:SER:H	4:BX:593:ASP:CG	2.19	0.43
4:BX:600:ASP:O	4:BX:601:VAL:CG2	2.59	0.43
4:BX:641:LEU:C	4:BX:643:THR:H	2.20	0.43
4:BY:1:MET:O	4:BY:2:ALA:C	2.57	0.43
4:BY:50:TRP:CB	4:BY:356:TRP:HB2	2.31	0.43
4:BY:270:ASP:N	4:BY:307:ARG:HD2	2.34	0.43
4:BY:350:TYR:CZ	4:BY:427:ARG:NE	2.87	0.43
4:BY:689:ARG:O	4:BY:690:PHE:HB3	2.19	0.43
4:BY:694:ARG:HH12	4:BY:701:ILE:CG2	2.32	0.43
4:BZ:305:TYR:CD1	4:BZ:307:ARG:HG2	2.54	0.43
4:BZ:409:VAL:HG11	4:BZ:426:PHE:CE2	2.43	0.43
4:BZ:633:PHE:CE1	4:BZ:719:SER:HB2	2.53	0.43
4:BZ:670:ASN:O	4:BZ:671:ARG:CG	2.67	0.43
1:AA:215:GLU:H	1:AA:215:GLU:CD	2.21	0.43
1:AA:277:ARG:HD3	1:AA:559:ALA:HB2	2.01	0.43
1:AA:581:VAL:O	1:AA:585:CYS:SG	2.71	0.43
1:AA:647:LYS:HG2	1:AA:654:ILE:HG21	2.00	0.43
1:AB:102:GLU:O	1:AB:104:ILE:N	2.52	0.43
1:AB:134:TYR:CE2	1:AB:803:ASN:CB	3.02	0.43
1:AB:463:ILE:HD12	1:AB:472:LEU:HD11	1.96	0.43
1:AB:668:ARG:HH11	1:AB:668:ARG:HG3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:66:LEU:HD23	2:AC:66:LEU:HA	1.81	0.43
2:AC:151:THR:C	2:AC:152:PHE:CD1	2.92	0.43
2:AC:163:SER:HB3	2:AC:181:TRP:CZ2	2.54	0.43
2:AD:163:SER:HB3	2:AD:181:TRP:CZ2	2.54	0.43
2:AF:2:ASP:O	2:AF:5:TYR:HB3	2.18	0.43
2:AF:5:TYR:HE2	2:AF:131:ASN:HA	1.84	0.43
2:AF:128:ASN:O	2:AF:129:PHE:CB	2.66	0.43
2:AF:163:SER:HB3	2:AF:181:TRP:CZ2	2.54	0.43
2:AG:34:PHE:HD2	2:AG:66:LEU:HD12	1.84	0.43
2:AG:97:MET:O	2:AG:101:VAL:HG13	2.18	0.43
2:AG:136:ILE:HG23	2:AG:137:GLU:N	2.33	0.43
2:AG:163:SER:HB3	2:AG:181:TRP:CZ2	2.54	0.43
2:AH:34:PHE:O	2:AH:35:ASN:C	2.57	0.43
2:AH:310:ASN:HB3	3:BK:180:GLU:OE1	2.17	0.43
2:AI:136:ILE:HG23	2:AI:137:GLU:N	2.33	0.43
2:AJ:1:MET:C	2:AJ:3:VAL:N	2.70	0.43
2:AJ:14:ALA:C	2:AJ:16:ASP:N	2.71	0.43
2:AJ:104:SER:O	2:AJ:108:GLY:HA3	2.18	0.43
2:AJ:169:SER:HA	2:AJ:176:LEU:HD23	2.00	0.43
2:AK:34:PHE:O	2:AK:35:ASN:C	2.57	0.43
2:AL:1:MET:O	2:AL:4:LEU:HB3	2.18	0.43
2:AL:227:PRO:HD3	2:AL:277:PHE:CG	2.53	0.43
2:AM:1:MET:C	2:AM:3:VAL:N	2.70	0.43
2:AN:6:SER:O	2:AN:7:LEU:C	2.55	0.43
2:AN:108:GLY:HA3	2:AN:381:ASN:ND2	2.34	0.43
2:AO:4:LEU:HG	2:AO:391:ILE:HG21	2.01	0.43
3:BA:107:LEU:HD23	3:BA:111:TRP:O	2.18	0.43
3:BF:176:GLN:O	3:BF:176:GLN:HG3	2.18	0.43
3:BG:171:THR:HB	3:BG:172:LEU:HD22	2.00	0.43
3:BI:106:PHE:CE2	3:BI:303:VAL:HG21	2.54	0.43
3:BJ:170:ILE:CG2	3:BJ:237:LEU:O	2.67	0.43
3:BK:170:ILE:CG2	3:BK:237:LEU:O	2.67	0.43
3:BK:289:TRP:CD2	3:BK:290:LYS:N	2.87	0.43
3:BL:186:SER:HB3	3:BL:246:ILE:CB	2.49	0.43
3:BM:170:ILE:CG2	3:BM:237:LEU:O	2.67	0.43
3:BN:178:THR:HB	3:BN:179:ASP:OD1	2.18	0.43
3:BO:284:MET:O	3:BO:285:MET:CE	2.66	0.43
3:BQ:107:LEU:HD23	3:BQ:111:TRP:O	2.18	0.43
4:BX:1:MET:CB	4:BX:635:ASP:OD2	2.67	0.43
4:BX:19:SER:CB	4:BZ:18:LEU:HD22	2.45	0.43
4:BX:482:THR:H	4:BX:483:PRO:CD	2.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:490:VAL:HG22	4:BX:491:ARG:H	1.84	0.43
4:BX:543:SER:O	4:BX:546:THR:HB	2.18	0.43
4:BX:592:THR:HG22	4:BX:593:ASP:N	2.34	0.43
4:BY:273:ILE:HG22	4:BY:274:ARG:N	2.34	0.43
4:BY:371:LEU:HD23	4:BY:371:LEU:C	2.39	0.43
4:BY:500:GLU:HG3	4:BY:501:LEU:N	2.33	0.43
4:BY:612:THR:O	4:BY:616:SER:N	2.51	0.43
4:BZ:2:ALA:CA	4:BZ:5:ILE:HG23	2.49	0.43
4:BZ:607:SER:O	4:BZ:609:SER:N	2.52	0.43
4:BZ:618:ARG:CG	4:BZ:618:ARG:NH1	2.81	0.43
4:BZ:619:LEU:HD21	4:BZ:712:VAL:HG13	2.01	0.43
4:BZ:626:THR:CG2	4:BZ:627:GLN:HG3	2.36	0.43
4:BZ:695:VAL:O	4:BZ:696:GLU:O	2.37	0.43
1:AA:111:ILE:O	1:AA:113:PRO:HD3	2.19	0.43
1:AA:246:HIS:O	1:AA:247:PRO:C	2.56	0.43
1:AA:340:VAL:O	1:AA:587:LEU:HD21	2.19	0.43
1:AA:353:LEU:O	1:AA:354:GLN:CB	2.65	0.43
1:AA:380:LYS:O	1:AA:381:THR:C	2.57	0.43
1:AA:524:ASP:O	1:AA:525:TYR:C	2.57	0.43
1:AA:697:ASP:CB	1:AA:765:PHE:HE2	2.17	0.43
1:AA:707:TYR:HD1	1:AA:707:TYR:H	1.65	0.43
1:AA:812:VAL:C	1:AA:814:ASN:N	2.70	0.43
1:AB:322:THR:HG22	1:AB:390:ARG:HB2	2.00	0.43
1:AB:387:LEU:C	1:AB:389:GLN:H	2.22	0.43
1:AB:391:THR:HG22	1:AB:420:ILE:H	1.83	0.43
1:AB:497:ILE:HD11	2:AI:24:TYR:OH	2.19	0.43
1:AB:630:ARG:HG3	1:AB:682:PHE:HZ	1.84	0.43
1:AB:685:ILE:HG13	1:AB:685:ILE:H	1.61	0.43
1:AB:731:GLN:H	1:AB:731:GLN:HG3	1.37	0.43
1:AB:735:LEU:CG	1:AB:760:VAL:O	2.58	0.43
2:AC:4:LEU:HA	2:AC:7:LEU:CD1	2.47	0.43
2:AC:123:LYS:HG3	2:AC:124:PHE:CE1	2.54	0.43
2:AC:153:HIS:O	2:AC:154:LYS:C	2.58	0.43
2:AC:169:SER:HA	2:AC:176:LEU:HD23	2.00	0.43
2:AD:2:ASP:O	2:AD:5:TYR:HB3	2.19	0.43
2:AD:5:TYR:O	2:AD:6:SER:C	2.57	0.43
2:AD:104:SER:O	2:AD:108:GLY:HA3	2.18	0.43
2:AG:109:ILE:HD12	2:AG:109:ILE:O	2.19	0.43
2:AG:313:PRO:CD	3:BJ:279:PRO:CB	2.81	0.43
2:AH:152:PHE:O	2:AH:328:SER:HA	2.19	0.43
2:AI:75:ALA:CB	2:AM:76:ASN:HA	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AJ:5:TYR:O	2:AJ:6:SER:C	2.57	0.43
2:AL:10:THR:O	2:AL:14:ALA:HB2	2.18	0.43
2:AM:1:MET:O	2:AM:4:LEU:N	2.51	0.43
2:AM:2:ASP:O	2:AM:5:TYR:HB3	2.19	0.43
2:AN:128:ASN:O	2:AN:129:PHE:CB	2.67	0.43
2:AN:227:PRO:O	2:AN:228:ASP:HB2	2.19	0.43
3:BA:92:GLU:O	3:BA:92:GLU:HG2	2.19	0.43
3:BG:125:ALA:HB1	3:BG:223:LYS:CG	2.45	0.43
3:BG:160:LEU:HA	3:BG:258:VAL:HG11	2.01	0.43
3:BG:178:THR:HB	3:BG:179:ASP:OD1	2.17	0.43
3:BG:302:TYR:O	3:BG:306:ILE:HG13	2.19	0.43
3:BJ:197:PRO:HG2	3:BJ:205:ILE:HG23	1.99	0.43
3:BM:119:LYS:HD3	3:BM:119:LYS:N	2.34	0.43
3:BM:128:SER:HG	3:BM:224:LEU:HD22	1.84	0.43
3:BN:178:THR:N	3:BN:182:ASN:HD22	2.13	0.43
3:BQ:176:GLN:O	3:BQ:176:GLN:HG3	2.18	0.43
3:BQ:186:SER:HB3	3:BQ:246:ILE:CB	2.49	0.43
3:BQ:252:LEU:C	3:BQ:253:GLY:O	2.57	0.43
3:BQ:253:GLY:HA2	3:BQ:254:PRO:HD3	1.74	0.43
3:BQ:263:VAL:CG1	3:BQ:289:TRP:HB2	2.46	0.43
4:BX:74:PHE:HD1	4:BX:287:LEU:HD11	1.80	0.43
4:BX:568:LEU:HD23	4:BX:590:ALA:CB	2.49	0.43
4:BX:574:SER:C	4:BX:575:ILE:CG2	2.87	0.43
4:BX:585:GLY:HA2	4:BX:706:GLN:HE21	1.83	0.43
4:BX:647:ARG:HD2	4:BZ:573:SER:HB3	2.00	0.43
4:BX:661:THR:O	4:BX:663:ALA:N	2.52	0.43
4:BY:568:LEU:CD1	4:BZ:520:LEU:HD13	2.49	0.43
4:BY:593:ASP:HA	4:BY:596:THR:CB	2.48	0.43
4:BY:633:PHE:CE2	4:BY:671:ARG:HB2	2.54	0.43
4:BY:673:TYR:CD1	4:BY:673:TYR:N	2.86	0.43
4:BY:694:ARG:HD2	4:BY:694:ARG:N	2.34	0.43
4:BZ:612:THR:O	4:BZ:616:SER:N	2.52	0.43
4:BZ:619:LEU:O	4:BZ:620:ARG:O	2.36	0.43
4:BZ:619:LEU:O	4:BZ:623:GLU:HB2	2.19	0.43
4:BZ:644:LYS:C	4:BZ:646:ASP:N	2.67	0.43
4:BZ:697:THR:O	4:BZ:699:ASP:N	2.52	0.43
4:BZ:701:ILE:HG23	4:BZ:702:PRO:HD2	2.00	0.43
1:AA:185:ASP:O	1:AA:185:ASP:OD1	2.36	0.42
1:AA:421:ARG:HG3	1:AB:523:VAL:HG21	1.89	0.42
1:AA:492:VAL:CG2	1:AA:558:MET:SD	3.07	0.42
1:AA:679:LEU:O	1:AA:681:ILE:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:765:PHE:HD1	1:AA:766:ILE:N	2.17	0.42
1:AA:804:SER:O	1:AA:810:TYR:HB3	2.18	0.42
1:AB:245:LEU:O	1:AB:246:HIS:HB2	2.18	0.42
1:AB:287:ASN:HD22	1:AB:287:ASN:HA	1.71	0.42
1:AB:612:SER:O	1:AB:616:GLU:HB2	2.19	0.42
1:AB:717:MET:HE1	1:AB:830:PRO:HD2	2.01	0.42
1:AB:810:TYR:HA	1:AB:812:VAL:HG12	2.01	0.42
1:AB:818:VAL:HA	1:AB:819:PRO:HD3	1.80	0.42
2:AC:23:LEU:O	2:AC:26:ASN:ND2	2.51	0.42
2:AD:10:THR:O	2:AD:14:ALA:HB2	2.19	0.42
2:AE:340:LYS:HD3	2:AE:342:MET:HE1	1.99	0.42
2:AG:246:THR:HG23	3:BJ:67:TYR:HE2	1.62	0.42
2:AH:225:LEU:HD13	2:AH:277:PHE:CD2	2.53	0.42
2:AI:23:LEU:O	2:AI:26:ASN:ND2	2.51	0.42
2:AJ:73:LEU:HD22	2:AJ:77:TYR:CE2	2.53	0.42
2:AJ:122:ILE:HG23	2:AJ:123:LYS:N	2.33	0.42
2:AK:5:TYR:O	2:AK:6:SER:C	2.57	0.42
2:AK:152:PHE:O	2:AK:328:SER:HA	2.19	0.42
2:AM:227:PRO:HD3	2:AM:277:PHE:CG	2.53	0.42
2:AN:116:LEU:O	2:AN:119:LEU:N	2.50	0.42
2:AO:122:ILE:HG23	2:AO:123:LYS:N	2.33	0.42
2:AO:249:PHE:CE2	2:AO:251:PRO:HG3	2.53	0.42
3:BA:106:PHE:CE2	3:BA:303:VAL:HG21	2.54	0.42
3:BA:137:TYR:CD2	3:BA:310:MET:CG	3.01	0.42
3:BG:107:LEU:HD23	3:BG:111:TRP:O	2.18	0.42
3:BG:137:TYR:HE1	3:BG:312:LYS:HD2	1.84	0.42
3:BG:170:ILE:CG2	3:BG:237:LEU:O	2.67	0.42
3:BG:174:TYR:CD1	3:BG:198:LEU:HD13	2.54	0.42
3:BH:119:LYS:N	3:BH:119:LYS:HD3	2.34	0.42
3:BH:160:LEU:HA	3:BH:258:VAL:HG11	2.01	0.42
3:BI:73:GLU:HG2	3:BI:73:GLU:O	2.19	0.42
3:BI:78:THR:O	3:BI:78:THR:CG2	2.66	0.42
3:BJ:87:THR:HG1	3:BJ:122:THR:HG22	1.81	0.42
3:BK:106:PHE:CE2	3:BK:303:VAL:HG21	2.54	0.42
3:BO:168:MET:HE1	3:BO:175:TYR:CD1	2.54	0.42
3:BP:159:ILE:HG21	3:BP:258:VAL:HG21	1.99	0.42
3:BP:322:PHE:O	3:BP:323:TYR:CD2	2.71	0.42
3:BQ:170:ILE:CG2	3:BQ:237:LEU:O	2.67	0.42
4:BX:579:ALA:O	4:BX:580:SER:C	2.58	0.42
4:BX:591:TRP:CZ3	4:BX:623:GLU:OE1	2.72	0.42
4:BX:698:PHE:O	4:BX:699:ASP:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:47:PRO:HB2	4:BY:419:VAL:HG11	1.86	0.42
4:BY:488:VAL:HG21	4:BZ:448:TYR:CE1	2.54	0.42
4:BY:676:ILE:HG21	4:BY:746:ARG:NH1	2.34	0.42
4:BZ:9:LEU:O	4:BZ:12:ASN:N	2.52	0.42
4:BZ:556:GLY:O	4:BZ:557:LEU:C	2.57	0.42
4:BZ:633:PHE:CZ	4:BZ:671:ARG:HB2	2.54	0.42
4:BZ:689:ARG:O	4:BZ:690:PHE:HB3	2.19	0.42
1:AA:166:PHE:O	1:AA:169:LEU:N	2.52	0.42
1:AA:275:PRO:CB	1:AA:278:ILE:CD1	2.97	0.42
1:AA:330:ARG:C	1:AA:332:VAL:N	2.71	0.42
1:AA:434:THR:HA	1:AA:438:PRO:HG3	2.01	0.42
1:AA:707:TYR:N	1:AA:707:TYR:CD1	2.87	0.42
1:AA:720:TYR:CD1	1:AA:819:PRO:HG2	2.54	0.42
1:AA:812:VAL:O	1:AA:813:ALA:C	2.58	0.42
1:AB:85:GLU:O	1:AB:86:VAL:C	2.58	0.42
1:AB:324:SER:O	1:AB:325:ASN:C	2.57	0.42
1:AB:431:ILE:O	1:AB:435:ILE:HB	2.20	0.42
1:AB:521:MET:SD	1:AB:521:MET:N	2.91	0.42
1:AB:676:ILE:O	1:AB:677:ARG:C	2.58	0.42
1:AB:773:SER:O	1:AB:776:ALA:N	2.52	0.42
2:AC:2:ASP:O	2:AC:3:VAL:C	2.58	0.42
2:AC:312:GLN:HB3	2:AC:313:PRO:HA	1.99	0.42
2:AD:67:GLY:O	2:AD:68:THR:CG2	2.66	0.42
2:AE:128:ASN:O	2:AE:129:PHE:CB	2.67	0.42
2:AE:163:SER:HB3	2:AE:181:TRP:CZ2	2.54	0.42
2:AE:227:PRO:O	2:AE:228:ASP:HB2	2.19	0.42
2:AG:89:VAL:O	2:AG:91:PHE:N	2.52	0.42
2:AH:2:ASP:O	2:AH:3:VAL:C	2.57	0.42
2:AH:108:GLY:HA3	2:AH:381:ASN:ND2	2.34	0.42
2:AJ:310:ASN:CB	3:BM:180:GLU:OE1	2.66	0.42
2:AK:108:GLY:HA3	2:AK:381:ASN:ND2	2.34	0.42
2:AK:145:ARG:HH22	2:AL:109:ILE:HG12	1.83	0.42
2:AN:76:ASN:HB2	2:AO:76:ASN:CB	2.48	0.42
2:AN:78:VAL:O	2:AN:81:ALA:N	2.41	0.42
2:AN:152:PHE:O	2:AN:328:SER:HA	2.19	0.42
2:AO:61:PHE:N	2:AO:61:PHE:CD1	2.87	0.42
2:AO:163:SER:HB3	2:AO:181:TRP:CZ2	2.54	0.42
3:BF:170:ILE:CG2	3:BF:237:LEU:O	2.67	0.42
3:BF:201:GLN:O	3:BF:202:THR:HB	2.18	0.42
3:BG:268:VAL:CG1	3:BH:286:ARG:NH1	2.83	0.42
3:BG:272:THR:CG2	3:BG:279:PRO:HD3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:302:TYR:O	3:BH:306:ILE:HG13	2.19	0.42
3:BI:127:PHE:HD2	3:BI:155:LEU:HD21	1.83	0.42
3:BI:132:GLN:CB	3:BI:319:SER:HB3	2.36	0.42
3:BI:133:LEU:HD12	3:BI:255:ARG:HH21	1.84	0.42
3:BJ:160:LEU:HA	3:BJ:258:VAL:HG11	2.01	0.42
3:BK:160:LEU:HA	3:BK:258:VAL:HG11	2.01	0.42
3:BM:176:GLN:O	3:BM:176:GLN:HG3	2.20	0.42
3:BN:106:PHE:CE2	3:BN:303:VAL:HG21	2.54	0.42
3:BN:186:SER:HB3	3:BN:246:ILE:CB	2.49	0.42
3:BN:302:TYR:O	3:BN:306:ILE:HG13	2.19	0.42
3:BO:107:LEU:HD23	3:BO:111:TRP:O	2.18	0.42
3:BO:160:LEU:HA	3:BO:258:VAL:HG11	2.01	0.42
3:BP:160:LEU:HA	3:BP:258:VAL:HG11	2.01	0.42
4:BX:2:ALA:CA	4:BX:5:ILE:HG23	2.47	0.42
4:BX:678:ASN:C	4:BX:679:ASP:CG	2.78	0.42
4:BX:754:GLU:O	4:BX:757:ASN:N	2.52	0.42
4:BY:46:ALA:N	4:BY:47:PRO:HD2	2.33	0.42
4:BY:637:SER:HB2	4:BY:667:PHE:HD2	1.84	0.42
4:BY:678:ASN:C	4:BY:679:ASP:CG	2.76	0.42
4:BY:708:PHE:O	4:BY:712:VAL:HG23	2.18	0.42
4:BZ:2:ALA:N	4:BZ:635:ASP:OD2	2.52	0.42
4:BZ:759:ASP:O	4:BZ:760:ASN:CG	2.58	0.42
1:AA:283:ASN:CG	1:AA:869:VAL:H	2.22	0.42
1:AA:306:ASP:O	1:AA:308:LEU:N	2.52	0.42
1:AA:383:ILE:O	1:AA:386:MET:N	2.53	0.42
1:AA:642:VAL:HG13	1:AA:665:LEU:HD23	2.00	0.42
1:AB:220:VAL:O	1:AB:223:ARG:HB2	2.19	0.42
1:AB:542:GLN:C	1:AB:544:VAL:N	2.71	0.42
2:AD:2:ASP:O	2:AD:3:VAL:C	2.57	0.42
2:AE:5:TYR:O	2:AE:6:SER:C	2.57	0.42
2:AE:34:PHE:O	2:AE:35:ASN:C	2.57	0.42
2:AE:150:PHE:O	2:AE:330:VAL:HG13	2.19	0.42
2:AF:33:GLN:O	2:AF:36:GLN:HB3	2.19	0.42
2:AF:135:TYR:CZ	2:AF:342:MET:HE3	2.55	0.42
2:AG:1:MET:O	2:AG:4:LEU:N	2.51	0.42
2:AH:128:ASN:O	2:AH:129:PHE:CB	2.67	0.42
2:AI:2:ASP:O	2:AI:3:VAL:C	2.57	0.42
2:AJ:340:LYS:HD3	2:AJ:342:MET:HE1	2.00	0.42
2:AM:124:PHE:CD1	2:AM:124:PHE:N	2.86	0.42
2:AN:136:ILE:HG23	2:AN:137:GLU:N	2.34	0.42
2:AN:163:SER:HB3	2:AN:181:TRP:CZ2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AN:238:ILE:HG23	3:BO:63:MET:CE	2.49	0.42
2:AO:74:ASP:O	2:AO:75:ALA:C	2.57	0.42
3:BA:106:PHE:CG	3:BA:116:VAL:HG21	2.52	0.42
3:BA:178:THR:HB	3:BA:179:ASP:OD1	2.19	0.42
3:BF:150:LEU:CD2	3:BG:290:LYS:HE2	2.46	0.42
3:BF:172:LEU:CB	3:BF:173:TYR:CZ	3.02	0.42
3:BG:59:ILE:HD11	3:BO:56:ASN:HD22	1.83	0.42
3:BG:263:VAL:CG1	3:BG:289:TRP:HB2	2.47	0.42
3:BH:191:CYS:N	3:BH:244:CYS:SG	2.91	0.42
3:BI:162:GLU:HB3	3:BI:253:GLY:O	2.17	0.42
3:BJ:302:TYR:O	3:BJ:306:ILE:HG13	2.19	0.42
3:BN:103:SER:CB	3:BP:173:TYR:OH	2.66	0.42
3:BN:261:ILE:HG12	3:BN:285:MET:HG3	1.89	0.42
3:BQ:186:SER:C	3:BQ:187:MET:CG	2.87	0.42
4:BX:556:GLY:O	4:BX:557:LEU:C	2.57	0.42
4:BX:661:THR:O	4:BX:664:SER:N	2.48	0.42
4:BY:261:LEU:CD1	4:BY:478:ASP:CG	2.85	0.42
4:BY:350:TYR:CG	4:BY:427:ARG:HD2	2.55	0.42
4:BY:357:ASP:OD1	4:BY:357:ASP:N	2.52	0.42
4:BY:566:ASP:O	4:BY:570:ASP:CG	2.57	0.42
4:BY:619:LEU:CD2	4:BY:712:VAL:CG1	2.94	0.42
4:BY:626:THR:HG22	4:BY:627:GLN:CG	2.39	0.42
4:BZ:637:SER:O	4:BZ:638:ALA:C	2.56	0.42
4:BZ:695:VAL:HG12	4:BZ:696:GLU:H	1.82	0.42
4:BZ:726:THR:HG21	4:BZ:766:ARG:CB	2.47	0.42
1:AA:402:MET:O	1:AA:404:LEU:N	2.52	0.42
1:AA:429:LEU:CD1	1:AA:447:TYR:HD2	2.31	0.42
1:AA:604:TYR:O	1:AA:605:ASN:C	2.58	0.42
1:AA:632:ASN:O	1:AA:634:TYR:N	2.52	0.42
1:AA:681:ILE:HD12	1:AA:681:ILE:HA	1.89	0.42
1:AB:106:LYS:O	1:AB:110:ASP:HB2	2.19	0.42
1:AB:158:GLY:H	1:AB:762:ALA:HB3	1.85	0.42
1:AB:347:GLN:HE21	1:AB:347:GLN:HB3	1.64	0.42
1:AB:406:SER:O	1:AB:409:TRP:N	2.50	0.42
1:AB:803:ASN:O	1:AB:803:ASN:OD1	2.38	0.42
1:AB:855:LEU:O	1:AB:858:VAL:N	2.51	0.42
2:AC:89:VAL:C	2:AC:91:PHE:N	2.73	0.42
2:AC:168:ARG:HD2	2:AC:175:ASN:O	2.20	0.42
2:AD:164:PHE:H	3:BH:61:GLY:HA3	1.81	0.42
2:AD:171:PRO:CG	3:BH:312:LYS:NZ	2.82	0.42
2:AE:108:GLY:HA3	2:AE:381:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:152:PHE:O	2:AE:328:SER:HA	2.19	0.42
2:AG:5:TYR:O	2:AG:6:SER:C	2.57	0.42
2:AG:99:GLU:HG3	2:AG:99:GLU:O	2.19	0.42
2:AH:135:TYR:CZ	2:AH:342:MET:HE3	2.53	0.42
2:AH:163:SER:HB3	2:AH:181:TRP:CZ2	2.54	0.42
2:AH:227:PRO:O	2:AH:228:ASP:HB2	2.20	0.42
2:AI:5:TYR:HE2	2:AI:130:ASP:O	2.03	0.42
2:AI:128:ASN:O	2:AI:129:PHE:CB	2.66	0.42
2:AI:356:PRO:CA	4:BX:735:GLY:CA	2.90	0.42
2:AJ:89:VAL:O	2:AJ:91:PHE:N	2.52	0.42
2:AK:23:LEU:HD23	2:AK:25:SER:H	1.85	0.42
2:AK:168:ARG:HD2	2:AK:175:ASN:O	2.20	0.42
2:AL:123:LYS:HG3	2:AL:124:PHE:CE1	2.54	0.42
2:AM:14:ALA:C	2:AM:16:ASP:N	2.71	0.42
2:AM:168:ARG:HD2	2:AM:175:ASN:O	2.20	0.42
2:AN:34:PHE:O	2:AN:35:ASN:C	2.57	0.42
2:AN:142:GLN:NE2	2:AN:143:ASN:N	2.66	0.42
3:BA:302:TYR:O	3:BA:306:ILE:HG13	2.19	0.42
3:BF:315:ARG:CG	3:BF:317:LEU:HB2	2.50	0.42
3:BH:106:PHE:CE2	3:BH:303:VAL:HG21	2.54	0.42
3:BH:171:THR:HB	3:BH:172:LEU:HD22	2.01	0.42
3:BH:259:ALA:HB1	3:BH:285:MET:HE2	2.02	0.42
3:BI:75:THR:CG2	3:BI:79:SER:OG	2.67	0.42
3:BI:174:TYR:HD1	3:BI:234:ASN:HB3	1.73	0.42
3:BJ:186:SER:HB3	3:BJ:246:ILE:CB	2.49	0.42
3:BK:302:TYR:O	3:BK:306:ILE:HG13	2.19	0.42
3:BM:137:TYR:CD2	3:BM:310:MET:CG	3.01	0.42
3:BN:137:TYR:CD2	3:BN:310:MET:CG	3.02	0.42
3:BN:170:ILE:CG2	3:BN:237:LEU:O	2.67	0.42
3:BQ:160:LEU:HA	3:BQ:258:VAL:HG11	2.01	0.42
4:BX:22:ILE:HD11	4:BY:22:ILE:HD11	2.01	0.42
4:BX:626:THR:HG23	4:BY:524:PRO:HD2	2.01	0.42
4:BX:776:LEU:O	4:BX:776:LEU:CG	2.58	0.42
4:BY:418:PHE:HE2	4:BZ:333:LEU:HD22	1.83	0.42
4:BY:668:ILE:HG22	4:BY:668:ILE:O	2.20	0.42
4:BY:760:ASN:OD1	4:BY:764:ARG:NH2	2.53	0.42
4:BZ:266:GLN:HG3	4:BZ:470:LEU:O	2.13	0.42
4:BZ:272:THR:O	4:BZ:272:THR:HG23	2.19	0.42
4:BZ:619:LEU:O	4:BZ:623:GLU:CB	2.68	0.42
4:BZ:661:THR:O	4:BZ:663:ALA:N	2.52	0.42
4:BZ:678:ASN:C	4:BZ:679:ASP:CG	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:570:THR:O	1:AA:571:LEU:CD2	2.61	0.42
1:AA:583:SER:OG	1:AA:584:LEU:N	2.53	0.42
1:AA:722:ASN:ND2	1:AA:823:THR:O	2.52	0.42
1:AA:771:VAL:CG1	1:AA:809:PHE:HB3	2.49	0.42
1:AB:102:GLU:C	1:AB:104:ILE:N	2.73	0.42
1:AB:486:ASP:C	1:AB:488:VAL:H	2.22	0.42
1:AB:638:MET:HB2	1:AB:639:LYS:H	1.48	0.42
1:AB:654:ILE:CG1	1:AB:655:SER:N	2.36	0.42
1:AB:803:ASN:O	1:AB:807:ASN:ND2	2.40	0.42
2:AC:1:MET:O	2:AC:4:LEU:HB3	2.18	0.42
2:AC:5:TYR:O	2:AC:6:SER:C	2.58	0.42
2:AD:89:VAL:O	2:AD:91:PHE:N	2.52	0.42
2:AE:99:GLU:OE2	2:AE:112:GLN:HG2	2.20	0.42
2:AF:168:ARG:HD2	2:AF:175:ASN:O	2.20	0.42
2:AG:4:LEU:HA	2:AG:7:LEU:CD1	2.48	0.42
2:AG:169:SER:HA	2:AG:176:LEU:HD23	2.00	0.42
2:AH:4:LEU:HA	2:AH:7:LEU:CD1	2.48	0.42
2:AH:136:ILE:HG23	2:AH:137:GLU:N	2.34	0.42
2:AI:1:MET:O	2:AI:2:ASP:C	2.56	0.42
2:AJ:2:ASP:O	2:AJ:5:TYR:HB3	2.19	0.42
2:AJ:65:LEU:HB3	2:AJ:66:LEU:H	1.66	0.42
2:AK:239:ASN:ND2	3:BN:65:THR:CA	2.76	0.42
2:AL:33:GLN:O	2:AL:36:GLN:HB3	2.19	0.42
2:AO:2:ASP:O	2:AO:3:VAL:C	2.57	0.42
2:AO:89:VAL:C	2:AO:91:PHE:N	2.72	0.42
3:BA:128:SER:HB2	3:BA:155:LEU:HD13	1.86	0.42
3:BG:128:SER:CB	3:BG:155:LEU:CD1	2.80	0.42
3:BH:261:ILE:HG12	3:BH:285:MET:HG3	1.89	0.42
3:BH:261:ILE:CG1	3:BH:285:MET:CG	2.76	0.42
3:BI:302:TYR:O	3:BI:306:ILE:HG13	2.19	0.42
3:BJ:106:PHE:CE2	3:BJ:303:VAL:HG21	2.54	0.42
3:BJ:168:MET:HE2	3:BJ:175:TYR:CG	2.54	0.42
3:BK:135:CYS:O	3:BK:313:ARG:NH2	2.42	0.42
3:BL:168:MET:CG	3:BL:248:ASN:HB2	2.49	0.42
3:BM:106:PHE:CE2	3:BM:303:VAL:HG21	2.54	0.42
3:BM:129:VAL:HA	3:BM:187:MET:SD	2.59	0.42
3:BN:174:TYR:CD1	4:BX:489:THR:CG2	3.02	0.42
3:BP:53:TYR:O	3:BP:55:ILE:N	2.52	0.42
3:BP:92:GLU:O	3:BP:92:GLU:HG2	2.19	0.42
3:BP:161:ASN:C	3:BP:255:ARG:HG2	2.40	0.42
3:BQ:63:MET:C	3:BQ:65:THR:HG23	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:45:TYR:OH	4:BX:475:PRO:CD	2.49	0.42
4:BX:169:LYS:HE3	4:BX:194:TYR:O	2.19	0.42
4:BX:620:ARG:C	4:BX:622:LYS:H	2.22	0.42
4:BY:631:MET:HE1	4:BY:752:LEU:HD23	2.00	0.42
4:BY:666:LYS:HD2	4:BY:776:LEU:CD1	2.49	0.42
4:BY:759:ASP:O	4:BY:760:ASN:CG	2.58	0.42
4:BZ:369:ARG:NH1	4:BZ:535:LYS:HB2	2.35	0.42
4:BZ:628:THR:HG22	4:BZ:629:GLU:N	2.32	0.42
4:BZ:666:LYS:HD2	4:BZ:776:LEU:CD1	2.50	0.42
1:AA:306:ASP:CA	1:AA:614:TYR:CE2	2.67	0.42
1:AA:597:PRO:CB	1:AA:860:ALA:HB3	2.46	0.42
1:AA:643:GLU:HG2	1:AA:662:MET:HE2	1.82	0.42
1:AA:712:LEU:CD1	1:AA:819:PRO:HB3	2.49	0.42
1:AA:799:LEU:HA	1:AA:799:LEU:HD23	1.80	0.42
1:AA:854:LEU:O	1:AA:855:LEU:C	2.57	0.42
1:AB:183:LEU:O	1:AB:184:LYS:C	2.57	0.42
1:AB:183:LEU:CD1	1:AB:844:SER:HB3	2.50	0.42
1:AB:236:ARG:O	1:AB:237:ASN:HB2	2.19	0.42
1:AB:246:HIS:HD2	1:AB:248:ILE:N	2.18	0.42
1:AB:773:SER:O	1:AB:774:LEU:C	2.58	0.42
2:AF:5:TYR:O	2:AF:6:SER:C	2.58	0.42
2:AF:253:ILE:HG13	2:AG:234:PHE:CE1	2.55	0.42
2:AH:168:ARG:HD2	2:AH:175:ASN:O	2.20	0.42
2:AI:33:GLN:O	2:AI:36:GLN:HB3	2.19	0.42
2:AI:234:PHE:CE1	2:AK:253:ILE:HG13	2.55	0.42
2:AJ:2:ASP:O	2:AJ:3:VAL:C	2.58	0.42
2:AJ:51:ILE:O	2:AJ:52:GLY:C	2.57	0.42
2:AK:99:GLU:OE2	2:AK:112:GLN:HG2	2.20	0.42
2:AL:4:LEU:HA	2:AL:7:LEU:CD1	2.48	0.42
2:AL:5:TYR:O	2:AL:6:SER:C	2.58	0.42
2:AM:163:SER:HB3	2:AM:181:TRP:CZ2	2.54	0.42
3:BA:160:LEU:HA	3:BA:258:VAL:HG11	2.01	0.42
3:BG:186:SER:HB3	3:BG:246:ILE:CB	2.49	0.42
3:BG:307:ILE:HD13	3:BG:310:MET:SD	2.60	0.42
3:BH:289:TRP:CZ3	3:BH:292:TRP:NE1	2.86	0.42
3:BI:256:GLU:OE1	3:BI:283:ARG:NH1	2.52	0.42
3:BJ:92:GLU:O	3:BJ:92:GLU:HG2	2.19	0.42
3:BK:287:ILE:O	3:BK:288:ASN:C	2.57	0.42
3:BL:69:ASN:OD1	4:BX:507:ALA:CA	2.66	0.42
3:BL:92:GLU:O	3:BL:92:GLU:HG2	2.19	0.42
3:BL:275:PRO:HG2	3:BM:306:ILE:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:315:ARG:O	3:BL:316:SER:C	2.58	0.42
3:BM:132:GLN:O	3:BM:133:LEU:C	2.58	0.42
3:BM:159:ILE:CG2	3:BM:258:VAL:CB	2.98	0.42
3:BN:200:THR:CB	4:BX:493:ASP:OD2	2.68	0.42
3:BO:81:LEU:HB3	3:BO:116:VAL:HG22	2.02	0.42
3:BO:186:SER:HB3	3:BO:246:ILE:CB	2.49	0.42
3:BP:73:GLU:O	3:BP:73:GLU:CG	2.60	0.42
3:BP:257:ASN:ND2	3:BP:313:ARG:CZ	2.78	0.42
3:BP:313:ARG:HE	3:BP:313:ARG:HB2	1.47	0.42
3:BQ:137:TYR:CD2	3:BQ:310:MET:CG	3.01	0.42
4:BX:2:ALA:HB2	4:BX:638:ALA:CB	2.49	0.42
4:BX:156:GLY:HA2	4:BX:187:LYS:HE3	2.02	0.42
4:BX:416:THR:CG2	4:BX:417:ASP:N	2.83	0.42
4:BX:619:LEU:O	4:BX:620:ARG:C	2.58	0.42
4:BY:667:PHE:CG	4:BY:774:CYS:SG	3.12	0.42
4:BZ:540:ALA:C	4:BZ:542:LYS:N	2.72	0.42
4:BZ:543:SER:O	4:BZ:546:THR:HB	2.19	0.42
1:AA:236:ARG:HB2	1:AA:238:VAL:HG23	2.01	0.42
1:AA:346:ILE:HD11	1:AA:369:GLY:CA	2.50	0.42
1:AA:428:GLN:CB	1:AA:456:PHE:HE1	2.27	0.42
1:AA:555:GLU:OE2	1:AA:871:PHE:HE2	2.02	0.42
1:AA:623:ALA:HA	1:AA:674:VAL:CG2	2.49	0.42
1:AA:855:LEU:O	1:AA:856:ALA:C	2.58	0.42
1:AB:95:ILE:CG2	1:AB:97:THR:OG1	2.67	0.42
1:AB:431:ILE:HA	1:AB:435:ILE:CD1	2.44	0.42
1:AB:799:LEU:HD23	1:AB:799:LEU:HA	1.81	0.42
1:AB:820:THR:O	1:AB:820:THR:HG22	2.19	0.42
2:AC:5:TYR:HE2	2:AC:130:ASP:O	2.03	0.42
2:AC:63:PHE:N	2:AC:63:PHE:CD1	2.88	0.42
2:AC:227:PRO:O	2:AC:228:ASP:HB2	2.20	0.42
2:AC:243:GLY:O	3:BG:68:ALA:N	2.52	0.42
2:AD:171:PRO:CB	3:BH:312:LYS:NZ	2.82	0.42
2:AE:142:GLN:NE2	2:AE:143:ASN:N	2.66	0.42
2:AF:2:ASP:O	2:AF:3:VAL:C	2.57	0.42
2:AF:63:PHE:N	2:AF:63:PHE:CD1	2.88	0.42
2:AF:123:LYS:HG3	2:AF:124:PHE:CE1	2.54	0.42
2:AG:51:ILE:O	2:AG:52:GLY:C	2.57	0.42
2:AH:238:ILE:HG23	3:BK:63:MET:CE	2.50	0.42
2:AI:123:LYS:HG3	2:AI:124:PHE:CE1	2.55	0.42
2:AI:253:ILE:HG13	2:AJ:234:PHE:CE1	2.55	0.42
2:AL:153:HIS:O	2:AL:154:LYS:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:163:SER:HB3	2:AL:181:TRP:CZ2	2.54	0.42
2:AL:168:ARG:HD2	2:AL:175:ASN:O	2.20	0.42
2:AL:359:PRO:CA	4:BX:701:ILE:CG1	2.97	0.42
2:AM:51:ILE:O	2:AM:52:GLY:C	2.57	0.42
2:AN:99:GLU:OE2	2:AN:112:GLN:HG2	2.20	0.42
2:AN:150:PHE:O	2:AN:330:VAL:HG13	2.19	0.42
2:AN:168:ARG:HD2	2:AN:175:ASN:O	2.20	0.42
3:BA:159:ILE:CG2	3:BA:258:VAL:CB	2.98	0.42
3:BA:168:MET:HB3	3:BA:175:TYR:CE1	2.55	0.42
3:BF:208:LEU:HD21	4:BZ:433:GLU:OE2	2.20	0.42
3:BH:92:GLU:O	3:BH:92:GLU:HG2	2.19	0.42
3:BH:137:TYR:CD2	3:BH:310:MET:CG	3.01	0.42
3:BH:158:LEU:CD2	3:BH:185:ILE:HD13	2.44	0.42
3:BH:307:ILE:HD13	3:BH:310:MET:SD	2.60	0.42
3:BI:290:LYS:CG	3:BK:150:LEU:HD21	2.49	0.42
3:BJ:128:SER:CA	3:BJ:155:LEU:HD11	2.25	0.42
3:BJ:191:CYS:N	3:BJ:244:CYS:SG	2.91	0.42
3:BJ:321:ALA:HA	3:BJ:325:ARG:CG	2.49	0.42
3:BN:57:LEU:CD2	3:BP:56:ASN:HB3	2.46	0.42
3:BN:92:GLU:HG2	3:BN:92:GLU:O	2.19	0.42
3:BP:174:TYR:CG	3:BP:198:LEU:HD11	2.53	0.42
3:BP:253:GLY:HA2	3:BP:254:PRO:HD3	1.61	0.42
4:BX:632:ASN:ND2	4:BX:632:ASN:N	2.67	0.42
4:BX:766:ARG:HA	4:BX:766:ARG:HD2	1.77	0.42
4:BY:16:VAL:O	4:BY:20:ASP:HB2	2.20	0.42
4:BZ:2:ALA:CB	4:BZ:638:ALA:HB2	2.49	0.42
4:BZ:416:THR:CG2	4:BZ:417:ASP:N	2.72	0.42
4:BZ:534:ILE:HG21	4:BZ:656:LEU:HD11	2.02	0.42
4:BZ:662:GLU:HA	4:BZ:665:GLU:CD	2.40	0.42
4:BZ:673:TYR:CD1	4:BZ:673:TYR:N	2.88	0.42
1:AA:164:GLU:HA	1:AA:633:LEU:HD21	2.02	0.42
1:AA:382:LEU:O	1:AA:385:ALA:HB3	2.20	0.42
1:AA:745:ALA:HA	1:AA:748:THR:OG1	2.20	0.42
1:AA:810:TYR:O	1:AA:811:LEU:C	2.58	0.42
1:AB:145:ARG:HB3	1:AB:147:TYR:HE1	1.85	0.42
1:AB:422:GLU:CA	1:AB:425:VAL:HG23	2.37	0.42
1:AB:480:PHE:HE2	1:AB:493:LEU:HB2	1.85	0.42
1:AB:651:ILE:HG23	1:AB:652:PHE:N	2.35	0.42
1:AB:699:ILE:HA	1:AB:763:LEU:O	2.19	0.42
1:AB:816:ASP:O	1:AB:817:TRP:CB	2.65	0.42
1:AB:866:ILE:O	1:AB:866:ILE:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:868:ALA:CB	1:AB:876:ILE:HG12	2.35	0.42
2:AC:227:PRO:HD3	2:AC:277:PHE:CG	2.53	0.42
2:AD:253:ILE:HG13	2:AE:234:PHE:CE1	2.55	0.42
2:AE:74:ASP:O	2:AE:75:ALA:C	2.58	0.42
2:AF:227:PRO:O	2:AF:228:ASP:HB2	2.20	0.42
2:AF:234:PHE:CE1	2:AH:253:ILE:HG13	2.55	0.42
2:AH:1:MET:C	2:AH:3:VAL:N	2.73	0.42
2:AH:89:VAL:C	2:AH:91:PHE:N	2.73	0.42
2:AI:227:PRO:O	2:AI:228:ASP:HB2	2.20	0.42
2:AJ:99:GLU:O	2:AJ:99:GLU:HG3	2.18	0.42
2:AJ:168:ARG:HD2	2:AJ:175:ASN:O	2.20	0.42
2:AK:4:LEU:HA	2:AK:7:LEU:CD1	2.48	0.42
2:AK:62:ASP:H	2:AK:63:PHE:HD1	1.66	0.42
2:AK:89:VAL:C	2:AK:91:PHE:N	2.73	0.42
2:AK:116:LEU:O	2:AK:117:ARG:C	2.58	0.42
2:AL:63:PHE:CD1	2:AL:63:PHE:N	2.88	0.42
2:AL:124:PHE:C	2:AL:126:ARG:N	2.73	0.42
2:AL:310:ASN:HB2	3:BP:180:GLU:OE1	2.18	0.42
2:AM:227:PRO:O	2:AM:228:ASP:HB2	2.20	0.42
3:BA:88:GLU:HA	3:BA:88:GLU:OE1	2.20	0.42
3:BF:81:LEU:HB3	3:BF:116:VAL:HG22	2.02	0.42
3:BF:306:ILE:HG12	3:BH:275:PRO:HG2	2.02	0.42
3:BG:178:THR:N	3:BG:182:ASN:HD22	2.11	0.42
3:BH:159:ILE:CG2	3:BH:258:VAL:CB	2.98	0.42
3:BI:159:ILE:CG2	3:BI:258:VAL:CB	2.98	0.42
3:BJ:172:LEU:CB	3:BJ:173:TYR:CZ	2.98	0.42
3:BJ:267:ASP:CG	3:BJ:286:ARG:HD2	2.40	0.42
3:BJ:268:VAL:HB	3:BK:266:SER:HA	2.01	0.42
3:BJ:307:ILE:HD13	3:BJ:310:MET:SD	2.60	0.42
3:BK:261:ILE:HG23	3:BK:261:ILE:O	2.20	0.42
3:BL:191:CYS:N	3:BL:244:CYS:SG	2.91	0.42
3:BM:264:GLY:O	3:BM:265:GLY:C	2.57	0.42
3:BM:303:VAL:HG23	3:BM:303:VAL:H	1.56	0.42
3:BN:200:THR:HB	4:BX:493:ASP:OD2	2.20	0.42
3:BO:126:SER:C	3:BO:129:VAL:HG23	2.39	0.42
3:BO:191:CYS:N	3:BO:244:CYS:SG	2.91	0.42
3:BP:88:GLU:HG2	3:BP:143:LYS:HZ2	1.83	0.42
3:BP:303:VAL:O	3:BP:307:ILE:HG12	2.20	0.42
3:BP:307:ILE:HD13	3:BP:310:MET:SD	2.60	0.42
3:BQ:106:PHE:CE2	3:BQ:303:VAL:HG21	2.54	0.42
4:BX:607:SER:O	4:BX:609:SER:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:670:ASN:O	4:BX:671:ARG:CG	2.68	0.42
4:BY:9:LEU:C	4:BY:11:THR:N	2.72	0.42
4:BY:77:PRO:CG	4:BY:287:LEU:CD2	2.94	0.42
4:BY:350:TYR:CD1	4:BY:427:ARG:CD	3.03	0.42
4:BY:350:TYR:OH	4:BY:427:ARG:NH2	2.52	0.42
4:BY:572:ALA:HA	4:BZ:516:GLN:HB2	2.01	0.42
4:BY:632:ASN:HA	4:BY:719:SER:OG	2.20	0.42
4:BY:674:ARG:NH2	4:BY:745:LEU:CD2	2.75	0.42
4:BY:693:TYR:OH	4:BY:724:PHE:CG	2.73	0.42
4:BY:753:ARG:O	4:BY:754:GLU:O	2.38	0.42
4:BZ:438:SER:HA	4:BZ:444:VAL:O	2.20	0.42
4:BZ:568:LEU:HD23	4:BZ:590:ALA:HB2	2.01	0.42
4:BZ:568:LEU:O	4:BZ:569:SER:C	2.58	0.42
4:BZ:756:ILE:HD12	4:BZ:767:ILE:CD1	2.50	0.42
4:BZ:765:ASN:O	4:BZ:769:GLN:HG3	2.20	0.42
1:AA:137:ASN:ND2	1:AA:139:GLU:HG3	2.35	0.42
1:AA:193:SER:OG	1:AA:194:ARG:N	2.49	0.42
1:AA:309:ASN:C	1:AA:311:HIS:N	2.74	0.42
1:AA:321:ILE:O	1:AA:322:THR:C	2.57	0.42
1:AA:421:ARG:C	1:AA:423:SER:N	2.73	0.42
1:AA:472:LEU:H	1:AA:472:LEU:HG	1.49	0.42
1:AA:555:GLU:OE2	1:AA:871:PHE:CE2	2.72	0.42
1:AA:589:GLY:C	1:AA:591:ALA:H	2.21	0.42
1:AA:645:PHE:CD2	1:AA:646:LEU:HD23	2.54	0.42
1:AA:662:MET:O	1:AA:665:LEU:CB	2.68	0.42
1:AA:717:MET:SD	1:AA:829:ILE:HG22	2.52	0.42
1:AB:237:ASN:HD22	1:AB:237:ASN:N	2.16	0.42
1:AB:402:MET:C	1:AB:404:LEU:N	2.71	0.42
1:AB:546:LEU:HA	1:AB:546:LEU:HD23	1.79	0.42
1:AB:674:VAL:HG12	1:AB:678:ARG:HB2	2.02	0.42
1:AB:869:VAL:CA	1:AB:876:ILE:HG23	2.48	0.42
2:AC:124:PHE:C	2:AC:126:ARG:N	2.73	0.42
2:AC:295:MET:CE	3:BH:67:TYR:CD2	3.03	0.42
2:AC:340:LYS:HD3	2:AC:342:MET:HE1	1.98	0.42
2:AD:33:GLN:O	2:AD:36:GLN:HB3	2.20	0.42
2:AD:227:PRO:O	2:AD:228:ASP:HB2	2.20	0.42
2:AF:153:HIS:O	2:AF:154:LYS:C	2.58	0.42
2:AG:227:PRO:O	2:AG:228:ASP:HB2	2.20	0.42
2:AH:83:ASN:CG	2:AI:122:ILE:HB	2.40	0.42
2:AJ:227:PRO:O	2:AJ:228:ASP:HB2	2.20	0.42
2:AK:150:PHE:O	2:AK:330:VAL:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:135:TYR:CZ	2:AL:342:MET:HE3	2.55	0.42
2:AM:2:ASP:O	2:AM:3:VAL:C	2.57	0.42
2:AM:54:LEU:HA	2:AM:55:PRO:HD3	1.82	0.42
2:AM:109:ILE:HD12	2:AM:109:ILE:O	2.19	0.42
2:AM:124:PHE:O	2:AM:126:ARG:N	2.53	0.42
2:AO:227:PRO:O	2:AO:228:ASP:HB2	2.20	0.42
3:BF:175:TYR:O	3:BF:235:HIS:N	2.48	0.42
3:BF:303:VAL:O	3:BF:307:ILE:HG12	2.20	0.42
3:BF:307:ILE:HD13	3:BF:310:MET:SD	2.60	0.42
3:BH:186:SER:HB3	3:BH:246:ILE:CB	2.49	0.42
3:BH:303:VAL:O	3:BH:307:ILE:HG12	2.20	0.42
3:BJ:258:VAL:HG22	3:BJ:259:ALA:H	1.81	0.42
3:BJ:275:PRO:HG2	3:BK:306:ILE:HG12	2.02	0.42
3:BK:72:GLN:H	3:BK:72:GLN:HG3	1.69	0.42
3:BK:81:LEU:HB3	3:BK:116:VAL:HG22	2.02	0.42
3:BK:92:GLU:O	3:BK:92:GLU:HG2	2.19	0.42
3:BK:137:TYR:HE2	3:BK:311:SER:HA	1.84	0.42
3:BL:111:TRP:HA	3:BL:112:PRO:HD2	1.85	0.42
3:BM:270:ASP:HB2	3:BN:288:ASN:ND2	2.31	0.42
3:BO:92:GLU:O	3:BO:92:GLU:HG2	2.19	0.42
3:BO:159:ILE:CG2	3:BO:258:VAL:CB	2.98	0.42
3:BO:303:VAL:O	3:BO:307:ILE:HG12	2.20	0.42
3:BP:72:GLN:O	3:BP:76:PHE:CD1	2.73	0.42
3:BP:137:TYR:CD2	3:BP:310:MET:CG	3.01	0.42
4:BY:483:PRO:HG3	4:BZ:447:LEU:HD22	1.99	0.42
4:BY:530:MET:HB3	4:BY:530:MET:HE2	1.95	0.42
4:BY:585:GLY:HA2	4:BY:706:GLN:HE21	1.84	0.42
4:BY:592:THR:HG22	4:BY:593:ASP:N	2.35	0.42
4:BZ:369:ARG:O	4:BZ:370:SER:HB2	2.20	0.42
4:BZ:632:ASN:ND2	4:BZ:632:ASN:N	2.68	0.42
1:AA:163:ARG:HD2	1:AA:631:LEU:O	2.20	0.42
1:AA:301:PRO:O	1:AA:303:LEU:HD21	2.20	0.42
1:AA:305:GLN:N	1:AA:305:GLN:CD	2.73	0.42
1:AA:320:THR:HB	1:AA:652:PHE:CZ	2.55	0.42
1:AA:703:VAL:HG12	1:AA:704:ILE:N	2.34	0.42
1:AA:856:ALA:C	1:AA:858:VAL:H	2.24	0.42
1:AB:183:LEU:HG	1:AB:844:SER:OG	2.20	0.42
1:AB:220:VAL:CG2	2:AO:23:LEU:HD11	2.49	0.42
1:AB:254:GLU:OE1	1:AB:254:GLU:HA	2.19	0.42
1:AB:329:ALA:HB3	1:AB:384:ALA:HB2	2.02	0.42
1:AB:501:HIS:CE1	1:AB:548:ARG:HD3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:742:GLY:O	1:AB:744:TYR:CE2	2.70	0.42
2:AC:74:ASP:OD2	2:AC:76:ASN:HB3	2.20	0.42
2:AC:238:ILE:CG2	3:BG:63:MET:HE1	2.50	0.42
2:AC:243:GLY:CA	3:BG:66:ALA:O	2.67	0.42
2:AE:10:THR:O	2:AE:14:ALA:HB2	2.20	0.42
2:AE:168:ARG:HD2	2:AE:175:ASN:O	2.20	0.42
2:AE:313:PRO:HD2	3:BF:279:PRO:HB2	2.01	0.42
2:AF:74:ASP:OD2	2:AF:76:ASN:HB3	2.20	0.42
2:AH:24:TYR:HE1	2:AH:31:ILE:HG13	1.85	0.42
2:AH:150:PHE:O	2:AH:330:VAL:HG13	2.19	0.42
2:AJ:163:SER:HB3	2:AJ:181:TRP:CZ2	2.54	0.42
2:AK:74:ASP:O	2:AK:75:ALA:C	2.58	0.42
2:AL:74:ASP:OD2	2:AL:76:ASN:HB3	2.20	0.42
2:AN:1:MET:C	2:AN:3:VAL:N	2.73	0.42
2:AN:340:LYS:HB3	2:AN:342:MET:HE1	2.02	0.42
2:AO:72:ASN:O	2:AO:73:LEU:C	2.58	0.42
3:BA:143:LYS:C	3:BA:144:TYR:O	2.55	0.42
3:BF:119:LYS:N	3:BF:119:LYS:HD3	2.34	0.42
3:BF:129:VAL:O	3:BF:131:PRO:HD2	2.20	0.42
3:BF:275:PRO:HG2	3:BG:306:ILE:HG12	2.02	0.42
3:BG:92:GLU:O	3:BG:92:GLU:HG2	2.19	0.42
3:BJ:81:LEU:HB3	3:BJ:116:VAL:HG22	2.01	0.42
3:BJ:275:PRO:HB3	3:BK:261:ILE:CD1	2.50	0.42
3:BJ:288:ASN:HD22	3:BJ:288:ASN:HA	1.69	0.42
3:BJ:303:VAL:O	3:BJ:307:ILE:HG12	2.20	0.42
3:BK:152:MET:HE1	3:BK:262:GLN:HE22	1.85	0.42
3:BK:168:MET:HE2	3:BK:175:TYR:CE2	2.55	0.42
3:BK:272:THR:HG23	3:BK:279:PRO:CD	2.50	0.42
3:BM:307:ILE:HD13	3:BM:310:MET:SD	2.60	0.42
3:BN:53:TYR:HE1	3:BP:55:ILE:HG12	1.85	0.42
3:BO:302:TYR:CD1	3:BQ:274:ASP:HB2	2.55	0.42
3:BP:87:THR:HG1	3:BP:122:THR:HG22	1.77	0.42
4:BX:19:SER:OG	4:BX:20:ASP:N	2.52	0.42
4:BX:262:TRP:CG	4:BX:473:LEU:CD2	3.03	0.42
4:BX:333:LEU:HB2	4:BY:70:GLN:OE1	2.20	0.42
4:BX:518:ILE:CD1	4:BX:756:ILE:HG21	2.50	0.42
4:BX:699:ASP:C	4:BX:700:GLU:O	2.53	0.42
4:BY:488:VAL:HB	4:BZ:448:TYR:CE1	2.55	0.42
4:BY:534:ILE:O	4:BY:535:LYS:CG	2.67	0.42
4:BY:670:ASN:O	4:BY:671:ARG:CG	2.68	0.42
4:BZ:677:ASN:O	4:BZ:678:ASN:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:754:GLU:O	4:BZ:757:ASN:N	2.52	0.42
1:AA:116:VAL:HG12	1:AA:117:LYS:H	1.75	0.41
1:AA:407:GLY:O	1:AA:410:LEU:HB2	2.19	0.41
1:AA:701:GLN:CB	1:AA:826:TYR:HD2	2.26	0.41
1:AB:158:GLY:O	1:AB:159:ASP:C	2.58	0.41
1:AB:383:ILE:HG22	1:AB:387:LEU:CD1	2.50	0.41
1:AB:409:TRP:CZ3	1:AB:413:VAL:CG2	3.03	0.41
2:AE:2:ASP:O	2:AE:3:VAL:C	2.57	0.41
2:AE:23:LEU:HD23	2:AE:25:SER:H	1.85	0.41
2:AG:2:ASP:O	2:AG:3:VAL:C	2.58	0.41
2:AG:253:ILE:HG13	2:AH:234:PHE:CE1	2.55	0.41
2:AH:57:ARG:NH1	2:AH:94:ASN:HD21	2.07	0.41
2:AI:101:VAL:HG23	2:AI:102:ARG:N	2.35	0.41
2:AJ:4:LEU:HA	2:AJ:7:LEU:CD1	2.48	0.41
2:AJ:124:PHE:O	2:AJ:126:ARG:N	2.53	0.41
2:AK:136:ILE:HG23	2:AK:137:GLU:N	2.34	0.41
2:AL:122:ILE:HG23	2:AL:123:LYS:N	2.35	0.41
2:AL:227:PRO:O	2:AL:228:ASP:HB2	2.20	0.41
2:AN:295:MET:HE3	2:AN:298:PRO:HD3	2.02	0.41
3:BF:196:CYS:HA	3:BF:197:PRO:HD2	1.83	0.41
3:BG:137:TYR:CE1	3:BG:312:LYS:HD2	2.55	0.41
3:BG:185:ILE:O	3:BG:247:ARG:HG2	2.20	0.41
3:BG:303:VAL:O	3:BG:307:ILE:HG12	2.20	0.41
3:BH:288:ASN:OD1	3:BH:290:LYS:HE2	2.20	0.41
3:BI:148:LEU:HD22	3:BI:151:ASP:OD2	2.20	0.41
3:BI:166:ASN:N	3:BI:248:ASN:O	2.53	0.41
3:BI:186:SER:HB3	3:BI:246:ILE:CB	2.49	0.41
3:BI:303:VAL:O	3:BI:307:ILE:HG12	2.20	0.41
3:BL:289:TRP:C	3:BL:289:TRP:CD1	2.93	0.41
3:BL:306:ILE:HG12	3:BN:275:PRO:HG2	2.02	0.41
3:BM:261:ILE:HG12	3:BM:285:MET:HG2	1.92	0.41
3:BN:81:LEU:HB3	3:BN:116:VAL:HG22	2.02	0.41
3:BN:119:LYS:HD3	3:BN:119:LYS:N	2.34	0.41
3:BP:106:PHE:CE2	3:BP:303:VAL:HG21	2.54	0.41
3:BP:150:LEU:CD2	3:BQ:290:LYS:CB	2.98	0.41
3:BP:159:ILE:CG2	3:BP:258:VAL:CB	2.98	0.41
3:BP:275:PRO:HG2	3:BQ:306:ILE:HG12	2.02	0.41
4:BX:552:PHE:O	4:BX:558:ALA:HB2	2.20	0.41
4:BX:574:SER:O	4:BX:575:ILE:HG22	2.20	0.41
4:BX:612:THR:O	4:BX:616:SER:N	2.52	0.41
4:BX:626:THR:HG22	4:BX:627:GLN:CG	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:9:LEU:HD13	4:BY:549:MET:CE	2.50	0.41
4:BY:142:ASP:OD2	4:BY:187:LYS:HE2	2.21	0.41
4:BY:593:ASP:HA	4:BY:596:THR:HB	2.02	0.41
4:BY:607:SER:O	4:BY:609:SER:N	2.53	0.41
4:BY:628:THR:HG22	4:BY:629:GLU:N	2.34	0.41
4:BY:752:LEU:O	4:BY:756:ILE:HG22	2.20	0.41
4:BZ:365:MET:SD	4:BZ:424:LEU:HD11	2.60	0.41
4:BZ:590:ALA:O	4:BZ:591:TRP:C	2.58	0.41
4:BZ:613:SER:O	4:BZ:616:SER:HB2	2.20	0.41
1:AA:712:LEU:HD21	1:AA:821:SER:HB3	2.02	0.41
1:AA:785:GLN:O	1:AA:788:LYS:N	2.46	0.41
1:AA:844:SER:OG	1:AA:845:ASN:N	2.53	0.41
1:AB:188:VAL:HG12	1:AB:189:GLU:N	2.35	0.41
1:AB:371:ASN:O	1:AB:372:SER:C	2.58	0.41
1:AB:383:ILE:O	1:AB:386:MET:N	2.53	0.41
1:AB:409:TRP:O	1:AB:412:THR:HB	2.19	0.41
1:AB:681:ILE:HG23	1:AB:682:PHE:N	2.36	0.41
1:AB:722:ASN:ND2	1:AB:823:THR:O	2.52	0.41
1:AB:785:GLN:O	1:AB:786:ILE:C	2.58	0.41
2:AD:124:PHE:O	2:AD:126:ARG:N	2.53	0.41
2:AE:116:LEU:O	2:AE:119:LEU:N	2.50	0.41
2:AH:69:THR:HG22	2:AH:70:LEU:N	2.31	0.41
2:AH:142:GLN:NE2	2:AH:143:ASN:N	2.66	0.41
2:AI:63:PHE:CD1	2:AI:63:PHE:N	2.88	0.41
2:AI:153:HIS:O	2:AI:154:LYS:C	2.58	0.41
2:AJ:253:ILE:HG13	2:AK:234:PHE:CE1	2.55	0.41
2:AK:59:TRP:CD1	2:AK:59:TRP:N	2.88	0.41
2:AK:227:PRO:O	2:AK:228:ASP:HB2	2.19	0.41
2:AL:140:ASN:O	2:AL:143:ASN:N	2.51	0.41
2:AL:238:ILE:HG23	3:BP:63:MET:CE	2.50	0.41
2:AM:23:LEU:HD23	2:AM:24:TYR:H	1.82	0.41
2:AM:23:LEU:CD2	2:AM:25:SER:H	2.34	0.41
2:AO:168:ARG:HD2	2:AO:175:ASN:O	2.20	0.41
3:BA:93:ILE:HG23	3:BA:293:TRP:HE1	1.85	0.41
3:BA:303:VAL:O	3:BA:307:ILE:HG12	2.20	0.41
3:BF:125:ALA:HB1	3:BF:223:LYS:CG	2.45	0.41
3:BF:198:LEU:HD21	3:BF:209:THR:CG2	2.50	0.41
3:BF:274:ASP:HB2	3:BG:302:TYR:CD1	2.55	0.41
3:BG:79:SER:HB3	3:BG:312:LYS:CD	2.50	0.41
3:BG:106:PHE:CE2	3:BG:303:VAL:HG21	2.54	0.41
3:BG:316:SER:HB2	3:BO:324:TYR:CG	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:140:VAL:CG1	3:BH:260:VAL:HG22	2.51	0.41
3:BI:160:LEU:HA	3:BI:258:VAL:HG11	2.01	0.41
3:BJ:303:VAL:HG23	3:BJ:303:VAL:H	1.56	0.41
3:BJ:323:TYR:O	3:BJ:324:TYR:CE1	2.67	0.41
3:BK:263:VAL:CG1	3:BK:289:TRP:CD1	3.03	0.41
3:BM:85:TYR:CZ	3:BM:98:TRP:CH2	3.08	0.41
3:BM:303:VAL:O	3:BM:307:ILE:HG12	2.20	0.41
3:BN:93:ILE:HG23	3:BN:293:TRP:HE1	1.85	0.41
3:BO:55:ILE:CG1	3:BO:322:PHE:CD2	3.02	0.41
3:BO:85:TYR:CZ	3:BO:98:TRP:CH2	3.08	0.41
3:BO:307:ILE:HA	3:BO:310:MET:HE3	2.01	0.41
3:BP:83:LEU:CD2	3:BP:139:VAL:HG13	2.43	0.41
3:BP:93:ILE:HG23	3:BP:293:TRP:HE1	1.85	0.41
3:BQ:93:ILE:HG23	3:BQ:293:TRP:HE1	1.85	0.41
3:BQ:159:ILE:CG2	3:BQ:258:VAL:CB	2.98	0.41
3:BQ:289:TRP:C	3:BQ:289:TRP:CD1	2.93	0.41
4:BX:540:ALA:C	4:BX:542:LYS:N	2.73	0.41
4:BX:758:GLN:HB3	4:BX:759:ASP:H	1.61	0.41
4:BY:582:ARG:N	4:BY:597:GLN:HB2	2.33	0.41
4:BZ:16:VAL:O	4:BZ:20:ASP:HB2	2.20	0.41
4:BZ:509:SER:C	4:BZ:511:GLU:N	2.74	0.41
4:BZ:701:ILE:HG23	4:BZ:702:PRO:N	2.35	0.41
1:AA:347:GLN:HE21	1:AA:347:GLN:HB3	1.65	0.41
1:AB:89:GLU:O	1:AB:91:LEU:N	2.54	0.41
1:AB:239:VAL:HG22	1:AB:846:LEU:HB2	2.02	0.41
1:AB:298:TYR:HE1	1:AB:300:ARG:HA	1.85	0.41
1:AB:415:PRO:C	1:AB:417:ASP:N	2.72	0.41
1:AB:419:PHE:HB3	1:AB:424:LEU:HD11	2.03	0.41
2:AD:171:PRO:CB	3:BH:312:LYS:CD	2.93	0.41
2:AE:89:VAL:C	2:AE:91:PHE:N	2.73	0.41
2:AE:116:LEU:O	2:AE:117:ARG:C	2.58	0.41
2:AE:355:ILE:HA	2:AE:356:PRO:HD3	1.96	0.41
2:AG:74:ASP:O	2:AG:75:ALA:C	2.57	0.41
2:AJ:89:VAL:C	2:AJ:91:PHE:N	2.74	0.41
2:AK:310:ASN:HB2	3:BN:180:GLU:OE1	2.20	0.41
2:AL:106:ARG:HD3	2:AL:106:ARG:N	2.15	0.41
2:AL:234:PHE:CE1	2:AN:253:ILE:HG13	2.55	0.41
2:AL:235:PRO:HA	2:AL:249:PHE:O	2.20	0.41
2:AN:74:ASP:O	2:AN:75:ALA:C	2.58	0.41
2:AN:313:PRO:HD2	3:BO:279:PRO:HB2	1.94	0.41
2:AO:136:ILE:HG23	2:AO:137:GLU:N	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:111:TRP:HE3	3:BA:115:SER:OG	2.04	0.41
3:BF:87:THR:HG1	3:BF:122:THR:HG22	1.76	0.41
3:BI:302:TYR:CD1	3:BK:274:ASP:HB2	2.55	0.41
3:BI:306:ILE:HG12	3:BK:275:PRO:HG2	2.02	0.41
3:BJ:130:ASP:N	3:BJ:131:PRO:CD	2.82	0.41
3:BK:303:VAL:O	3:BK:307:ILE:HG12	2.20	0.41
3:BM:81:LEU:HB3	3:BM:116:VAL:HG22	2.02	0.41
3:BM:150:LEU:CD2	3:BN:290:LYS:CB	2.97	0.41
3:BM:196:CYS:HA	3:BM:197:PRO:HD2	1.83	0.41
3:BN:323:TYR:O	3:BN:324:TYR:HD1	2.02	0.41
3:BO:78:THR:O	3:BO:78:THR:CG2	2.68	0.41
3:BO:257:ASN:HD21	3:BO:313:ARG:CG	2.25	0.41
3:BP:83:LEU:HD23	3:BP:139:VAL:CG1	2.48	0.41
3:BP:140:VAL:CG1	3:BP:260:VAL:HG22	2.51	0.41
3:BQ:303:VAL:O	3:BQ:307:ILE:HG12	2.20	0.41
4:BX:142:ASP:OD2	4:BX:187:LYS:HE2	2.20	0.41
4:BX:656:LEU:O	4:BX:657:PRO:O	2.38	0.41
4:BX:699:ASP:OD1	4:BX:701:ILE:HB	2.20	0.41
4:BY:307:ARG:HE	4:BY:310:GLU:CD	2.23	0.41
4:BY:497:GLN:O	4:BY:500:GLU:HB3	2.20	0.41
4:BY:553:LYS:O	4:BY:553:LYS:HG3	2.18	0.41
4:BY:761:PRO:HB2	4:BY:762:ILE:H	1.53	0.41
4:BZ:549:MET:O	4:BZ:552:PHE:N	2.53	0.41
4:BZ:579:ALA:CB	4:BZ:581:ILE:HG12	2.51	0.41
4:BZ:727:LEU:O	4:BZ:730:LEU:HB3	2.19	0.41
1:AA:250:HIS:CG	1:AA:840:HIS:CB	3.03	0.41
1:AA:253:ASN:O	1:AA:256:PHE:HB2	2.21	0.41
1:AA:274:ILE:HA	1:AA:275:PRO:HD3	1.74	0.41
1:AA:415:PRO:HG3	1:AA:478:ASN:HD21	1.85	0.41
1:AA:544:VAL:O	1:AA:548:ARG:HG3	2.20	0.41
1:AA:854:LEU:HB3	1:AA:855:LEU:H	1.38	0.41
1:AB:141:GLU:O	1:AB:142:LEU:CB	2.66	0.41
1:AB:182:LEU:HA	1:AB:182:LEU:HD23	1.75	0.41
1:AB:239:VAL:CG2	1:AB:844:SER:O	2.66	0.41
1:AB:282:VAL:C	1:AB:284:TYR:N	2.74	0.41
1:AB:409:TRP:O	1:AB:412:THR:N	2.54	0.41
1:AB:637:LYS:O	1:AB:638:MET:O	2.38	0.41
2:AC:122:ILE:HG23	2:AC:123:LYS:N	2.35	0.41
2:AC:253:ILE:HG13	2:AD:234:PHE:CE1	2.55	0.41
2:AE:45:GLU:HG2	2:AE:60:ASN:OD1	2.21	0.41
2:AE:123:LYS:HG3	2:AE:124:PHE:HD1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AF:89:VAL:C	2:AF:91:PHE:N	2.73	0.41
2:AF:235:PRO:HA	2:AF:249:PHE:O	2.20	0.41
2:AG:33:GLN:O	2:AG:36:GLN:HB3	2.20	0.41
2:AH:1:MET:O	2:AH:4:LEU:N	2.54	0.41
2:AH:116:LEU:O	2:AH:117:ARG:C	2.58	0.41
2:AI:89:VAL:C	2:AI:91:PHE:N	2.73	0.41
2:AI:122:ILE:HG23	2:AI:123:LYS:N	2.35	0.41
2:AI:204:ASN:HB3	2:AI:296:ARG:HB3	2.03	0.41
2:AN:123:LYS:HG3	2:AN:124:PHE:HD1	1.86	0.41
2:AO:235:PRO:HA	2:AO:249:PHE:O	2.20	0.41
3:BA:307:ILE:HD13	3:BA:310:MET:SD	2.60	0.41
3:BF:92:GLU:O	3:BF:92:GLU:HG2	2.19	0.41
3:BF:172:LEU:HD21	4:BZ:466:GLY:C	2.40	0.41
3:BF:210:THR:HB	4:BZ:379:ILE:HD11	2.02	0.41
3:BF:286:ARG:HD3	3:BH:270:ASP:HB2	2.03	0.41
3:BH:85:TYR:CZ	3:BH:98:TRP:CH2	3.08	0.41
3:BI:266:SER:HA	3:BI:286:ARG:HH22	1.85	0.41
3:BJ:52:ASN:HD21	3:BL:58:PRO:CA	2.19	0.41
3:BJ:274:ASP:HB2	3:BK:302:TYR:CD1	2.55	0.41
3:BJ:321:ALA:HA	3:BJ:325:ARG:CB	2.49	0.41
3:BK:168:MET:HE2	3:BK:175:TYR:CZ	2.54	0.41
3:BK:289:TRP:O	3:BK:290:LYS:HB2	2.21	0.41
3:BL:85:TYR:CZ	3:BL:98:TRP:CH2	3.09	0.41
3:BL:163:TRP:O	3:BL:322:PHE:HD1	2.01	0.41
3:BL:274:ASP:HB2	3:BM:302:TYR:CD1	2.55	0.41
3:BL:290:LYS:NZ	3:BN:154:GLU:OE2	2.41	0.41
3:BL:302:TYR:CD1	3:BN:274:ASP:HB2	2.55	0.41
3:BN:83:LEU:CD2	3:BN:139:VAL:HG13	2.44	0.41
3:BN:176:GLN:O	3:BN:176:GLN:HG3	2.20	0.41
3:BN:303:VAL:O	3:BN:307:ILE:HG12	2.20	0.41
3:BO:55:ILE:HG12	3:BO:322:PHE:CD2	2.56	0.41
3:BO:55:ILE:CD1	3:BO:322:PHE:CB	2.98	0.41
3:BO:150:LEU:CD2	3:BP:290:LYS:CB	2.98	0.41
3:BO:274:ASP:HB2	3:BP:302:TYR:CD1	2.55	0.41
3:BO:306:ILE:HG12	3:BQ:275:PRO:HG2	2.02	0.41
3:BP:289:TRP:CZ3	3:BP:292:TRP:NE1	2.88	0.41
4:BX:509:SER:C	4:BX:511:GLU:N	2.74	0.41
4:BY:576:SER:O	4:BY:578:GLY:N	2.53	0.41
4:BY:624:MET:C	4:BY:626:THR:N	2.72	0.41
4:BY:670:ASN:O	4:BY:671:ARG:HG2	2.20	0.41
4:BZ:13:SER:O	4:BZ:14:TYR:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:584:VAL:HG23	4:BZ:596:THR:HG21	2.00	0.41
4:BZ:674:ARG:NH2	4:BZ:745:LEU:CD2	2.77	0.41
1:AA:299:ILE:CG2	1:AA:300:ARG:N	2.83	0.41
1:AA:365:GLN:HB2	1:AA:366:PHE:CE1	2.56	0.41
1:AA:544:VAL:CG1	1:AA:548:ARG:HH21	2.33	0.41
1:AA:642:VAL:HG11	1:AA:662:MET:HA	2.03	0.41
1:AA:668:ARG:HG3	1:AA:668:ARG:HH11	1.84	0.41
1:AA:707:TYR:OH	1:AA:754:ASN:HA	2.20	0.41
1:AA:789:LEU:O	1:AA:791:LYS:N	2.53	0.41
1:AB:244:ILE:HD11	1:AB:838:SER:CB	2.48	0.41
1:AB:311:HIS:CG	1:AB:566:GLN:OE1	2.73	0.41
1:AB:434:THR:C	1:AB:435:ILE:CG1	2.89	0.41
1:AB:597:PRO:HB2	1:AB:598:GLN:H	1.75	0.41
1:AB:630:ARG:HG3	1:AB:682:PHE:CZ	2.56	0.41
2:AD:23:LEU:CD2	2:AD:25:SER:H	2.33	0.41
2:AE:1:MET:O	2:AE:4:LEU:N	2.54	0.41
2:AG:168:ARG:HD2	2:AG:175:ASN:O	2.20	0.41
2:AH:99:GLU:OE2	2:AH:112:GLN:HG2	2.20	0.41
2:AH:165:THR:HG23	3:BK:59:ILE:O	2.20	0.41
2:AH:235:PRO:HA	2:AH:249:PHE:O	2.21	0.41
2:AI:340:LYS:HB3	2:AI:342:MET:HE1	2.02	0.41
2:AM:89:VAL:C	2:AM:91:PHE:N	2.74	0.41
2:AM:253:ILE:HG13	2:AN:234:PHE:CE1	2.55	0.41
2:AN:109:ILE:HG13	2:AN:109:ILE:O	2.20	0.41
2:AO:4:LEU:HA	2:AO:7:LEU:CD1	2.49	0.41
2:AO:33:GLN:O	2:AO:36:GLN:HB3	2.21	0.41
3:BA:140:VAL:CG1	3:BA:260:VAL:HG22	2.50	0.41
3:BG:140:VAL:CG1	3:BG:260:VAL:HG22	2.50	0.41
3:BG:143:LYS:CG	3:BG:263:VAL:HB	2.50	0.41
3:BH:93:ILE:HG23	3:BH:293:TRP:HE1	1.86	0.41
3:BI:93:ILE:HG23	3:BI:293:TRP:HE1	1.85	0.41
3:BJ:85:TYR:CZ	3:BJ:98:TRP:CH2	3.08	0.41
3:BJ:275:PRO:HB3	3:BK:261:ILE:HD11	2.03	0.41
3:BK:140:VAL:CG1	3:BK:260:VAL:HG22	2.50	0.41
3:BL:258:VAL:HG12	3:BL:260:VAL:HG23	2.02	0.41
3:BL:266:SER:N	3:BL:286:ARG:HH12	2.19	0.41
3:BM:92:GLU:O	3:BM:92:GLU:HG2	2.19	0.41
3:BO:140:VAL:CG1	3:BO:260:VAL:HG22	2.50	0.41
3:BP:178:THR:N	3:BP:182:ASN:HD22	2.13	0.41
4:BX:16:VAL:O	4:BX:20:ASP:HB2	2.21	0.41
4:BX:22:ILE:C	4:BX:24:GLU:H	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:355:TYR:O	4:BX:423:SER:HA	2.20	0.41
4:BX:363:ARG:H	4:BX:363:ARG:HG2	1.66	0.41
4:BX:500:GLU:O	4:BX:502:ARG:N	2.53	0.41
4:BX:582:ARG:NH1	4:BX:584:VAL:CG2	2.84	0.41
4:BX:715:SER:HB3	4:BX:716:PRO:CD	2.47	0.41
4:BY:30:THR:CG2	4:BY:31:GLN:H	2.34	0.41
4:BY:169:LYS:HE3	4:BY:194:TYR:O	2.20	0.41
4:BY:301:TYR:CD2	4:BY:303:TYR:HD2	2.37	0.41
4:BY:518:ILE:CD1	4:BY:756:ILE:HG21	2.50	0.41
4:BZ:531:PHE:HA	4:BZ:534:ILE:CD1	2.51	0.41
4:BZ:696:GLU:O	4:BZ:698:PHE:CD1	2.73	0.41
1:AA:398:THR:O	1:AA:398:THR:HG22	2.21	0.41
1:AA:484:VAL:HG12	1:AA:485:ILE:N	2.35	0.41
1:AA:549:LEU:O	1:AA:550:LEU:C	2.58	0.41
1:AA:779:ASP:OD2	1:AA:822:THR:O	2.39	0.41
1:AB:140:LYS:O	1:AB:142:LEU:N	2.54	0.41
1:AB:167:LEU:HB2	1:AB:631:LEU:CD2	2.51	0.41
1:AB:230:GLN:CD	1:AB:230:GLN:N	2.74	0.41
1:AB:276:GLU:HG3	1:AB:276:GLU:O	2.20	0.41
1:AB:638:MET:HE2	1:AB:666:ARG:NH1	2.36	0.41
1:AB:721:VAL:CG1	1:AB:722:ASN:N	2.77	0.41
1:AB:879:GLU:O	1:AB:880:LEU:OXT	2.38	0.41
2:AC:101:VAL:HG23	2:AC:102:ARG:N	2.35	0.41
2:AD:31:ILE:O	2:AD:34:PHE:HB3	2.21	0.41
2:AE:235:PRO:HA	2:AE:249:PHE:O	2.21	0.41
2:AF:122:ILE:HG23	2:AF:123:LYS:N	2.35	0.41
2:AH:10:THR:O	2:AH:14:ALA:HB2	2.20	0.41
2:AH:23:LEU:HD23	2:AH:25:SER:H	1.85	0.41
2:AH:109:ILE:HG13	2:AH:109:ILE:O	2.20	0.41
2:AI:140:ASN:O	2:AI:143:ASN:N	2.51	0.41
2:AJ:33:GLN:O	2:AJ:36:GLN:HB3	2.20	0.41
2:AJ:109:ILE:HD12	2:AJ:109:ILE:O	2.19	0.41
2:AK:1:MET:O	2:AK:4:LEU:N	2.54	0.41
2:AL:101:VAL:HG23	2:AL:102:ARG:N	2.36	0.41
2:AN:59:TRP:CD1	2:AN:59:TRP:N	2.88	0.41
3:BF:93:ILE:HG23	3:BF:293:TRP:HE1	1.85	0.41
3:BH:81:LEU:HB3	3:BH:116:VAL:HG22	2.02	0.41
3:BI:83:LEU:CD2	3:BI:139:VAL:HG13	2.44	0.41
3:BI:270:ASP:O	3:BI:271:ILE:HG13	2.20	0.41
3:BI:274:ASP:HB2	3:BJ:302:TYR:CD1	2.55	0.41
3:BI:275:PRO:HG2	3:BJ:306:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:52:ASN:CB	3:BJ:57:LEU:HD11	2.42	0.41
3:BK:159:ILE:CG2	3:BK:258:VAL:CB	2.98	0.41
3:BK:174:TYR:HD1	3:BK:234:ASN:HB3	1.73	0.41
3:BK:257:ASN:HD21	3:BK:313:ARG:CG	2.33	0.41
3:BL:81:LEU:HB3	3:BL:116:VAL:HG22	2.02	0.41
3:BM:144:TYR:HB3	3:BM:264:GLY:CA	2.45	0.41
3:BN:289:TRP:HZ3	3:BN:292:TRP:NE1	2.19	0.41
3:BO:168:MET:HE2	3:BO:175:TYR:CD1	2.55	0.41
3:BP:129:VAL:O	3:BP:129:VAL:HG22	2.21	0.41
3:BQ:85:TYR:CZ	3:BQ:98:TRP:CH2	3.08	0.41
3:BQ:137:TYR:HB3	3:BQ:310:MET:SD	2.61	0.41
3:BQ:191:CYS:N	3:BQ:244:CYS:SG	2.91	0.41
4:BX:629:GLU:O	4:BX:632:ASN:ND2	2.53	0.41
4:BX:681:VAL:HB	4:BX:693:TYR:CG	2.54	0.41
4:BX:697:THR:O	4:BX:698:PHE:O	2.38	0.41
4:BY:350:TYR:CG	4:BY:427:ARG:CG	3.03	0.41
4:BY:350:TYR:HA	4:BY:428:PHE:O	2.20	0.41
4:BY:722:ILE:O	4:BY:722:ILE:HG13	2.21	0.41
4:BZ:409:VAL:HG23	4:BZ:409:VAL:O	2.21	0.41
4:BZ:618:ARG:HG3	4:BZ:618:ARG:NH1	2.30	0.41
4:BZ:667:PHE:CG	4:BZ:774:CYS:SG	3.12	0.41
4:BZ:708:PHE:O	4:BZ:712:VAL:HG23	2.20	0.41
1:AA:125:ILE:HD12	1:AA:249:ASP:OD1	2.20	0.41
1:AA:130:GLN:HB3	1:AA:131:LEU:H	1.62	0.41
1:AA:747:ILE:HG23	1:AA:748:THR:H	1.84	0.41
1:AB:108:LEU:C	1:AB:110:ASP:H	2.23	0.41
1:AB:473:HIS:O	1:AB:477:ASN:ND2	2.54	0.41
1:AB:636:LYS:O	1:AB:637:LYS:HB2	2.21	0.41
1:AB:638:MET:H	1:AB:638:MET:HG2	1.34	0.41
1:AB:762:ALA:O	1:AB:763:LEU:HD23	2.20	0.41
1:AB:791:LYS:O	1:AB:792:VAL:CG2	2.61	0.41
1:AB:852:SER:O	1:AB:854:LEU:N	2.41	0.41
2:AC:106:ARG:HD3	2:AC:106:ARG:N	2.14	0.41
2:AC:204:ASN:HB3	2:AC:296:ARG:HB3	2.03	0.41
2:AF:5:TYR:HE2	2:AF:130:ASP:O	2.03	0.41
2:AF:101:VAL:HG23	2:AF:102:ARG:N	2.35	0.41
2:AF:131:ASN:N	2:AF:131:ASN:ND2	2.69	0.41
2:AI:110:ALA:HB1	2:AI:111:PRO:CD	2.51	0.41
2:AI:124:PHE:C	2:AI:126:ARG:N	2.73	0.41
2:AL:5:TYR:HE2	2:AL:130:ASP:O	2.03	0.41
2:AL:253:ILE:HG13	2:AM:234:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:33:GLN:O	2:AM:36:GLN:HB3	2.20	0.41
2:AM:65:LEU:HB3	2:AM:66:LEU:H	1.62	0.41
2:AO:5:TYR:CE2	2:AO:131:ASN:HA	2.56	0.41
3:BF:302:TYR:CD1	3:BH:274:ASP:HB2	2.55	0.41
3:BF:315:ARG:NH2	3:BF:317:LEU:CD2	2.78	0.41
3:BG:85:TYR:CZ	3:BG:98:TRP:CH2	3.08	0.41
3:BI:253:GLY:C	3:BI:254:PRO:O	2.57	0.41
3:BK:137:TYR:CE2	3:BK:307:ILE:HG23	2.56	0.41
3:BL:127:PHE:CD2	3:BL:155:LEU:CD2	2.64	0.41
3:BM:140:VAL:CG1	3:BM:260:VAL:HG22	2.50	0.41
3:BM:268:VAL:HG12	3:BN:286:ARG:CZ	2.50	0.41
3:BN:59:ILE:O	3:BN:59:ILE:CG2	2.67	0.41
3:BN:80:THR:CG2	3:BN:117:TYR:HE1	2.32	0.41
3:BQ:111:TRP:HA	3:BQ:112:PRO:HD2	1.85	0.41
4:BX:15:THR:O	4:BX:17:ASP:N	2.54	0.41
4:BX:22:ILE:CG1	4:BY:22:ILE:HD13	2.51	0.41
4:BX:22:ILE:HG13	4:BY:22:ILE:HD13	2.03	0.41
4:BX:33:VAL:HB	4:BY:36:ASN:CB	2.51	0.41
4:BX:41:ALA:CB	4:BX:259:THR:O	2.67	0.41
4:BX:371:LEU:HD22	4:BX:468:PHE:HZ	1.85	0.41
4:BY:14:TYR:OH	4:BZ:12:ASN:HB3	2.21	0.41
4:BY:513:ALA:CB	4:BY:516:GLN:HG2	2.51	0.41
4:BY:726:THR:HG21	4:BY:766:ARG:CB	2.47	0.41
4:BY:760:ASN:O	4:BY:761:PRO:O	2.39	0.41
4:BZ:1:MET:HG3	4:BZ:523:LEU:N	2.36	0.41
4:BZ:585:GLY:HA2	4:BZ:706:GLN:HE21	1.84	0.41
4:BZ:606:SER:O	4:BZ:607:SER:O	2.38	0.41
4:BZ:653:PRO:C	4:BZ:655:THR:N	2.71	0.41
4:BZ:681:VAL:H	4:BZ:693:TYR:HB2	1.86	0.41
1:AA:368:THR:O	1:AA:369:GLY:O	2.38	0.41
1:AA:406:SER:O	1:AA:409:TRP:N	2.53	0.41
1:AA:527:ARG:NH1	1:AA:527:ARG:CG	2.83	0.41
1:AA:703:VAL:CG1	1:AA:704:ILE:N	2.83	0.41
1:AA:827:LYS:O	1:AA:828:GLN:O	2.39	0.41
1:AB:405:ILE:O	1:AB:408:MET:HB2	2.21	0.41
1:AB:479:GLN:OE1	1:AB:479:GLN:HA	2.21	0.41
2:AC:355:ILE:HA	2:AC:356:PRO:HD3	1.96	0.41
2:AD:74:ASP:O	2:AD:75:ALA:C	2.58	0.41
2:AD:168:ARG:HD2	2:AD:175:ASN:O	2.20	0.41
2:AG:23:LEU:CD2	2:AG:25:SER:H	2.33	0.41
2:AG:42:ASN:HA	2:AG:61:PHE:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:235:PRO:HA	2:AG:249:PHE:O	2.21	0.41
2:AH:2:ASP:O	2:AH:5:TYR:HB3	2.21	0.41
2:AJ:23:LEU:CD2	2:AJ:25:SER:H	2.34	0.41
2:AK:45:GLU:HG2	2:AK:60:ASN:OD1	2.21	0.41
2:AK:125:LYS:C	2:AK:127:ILE:H	2.24	0.41
2:AL:5:TYR:HE2	2:AL:131:ASN:HA	1.84	0.41
2:AL:340:LYS:HD3	2:AL:342:MET:HE1	2.01	0.41
2:AM:204:ASN:HB3	2:AM:296:ARG:HB3	2.03	0.41
2:AM:235:PRO:HA	2:AM:249:PHE:O	2.21	0.41
2:AN:23:LEU:HD23	2:AN:25:SER:H	1.85	0.41
2:AN:45:GLU:HG2	2:AN:60:ASN:OD1	2.21	0.41
3:BA:137:TYR:CE2	3:BA:307:ILE:HG23	2.56	0.41
3:BF:137:TYR:CE2	3:BF:307:ILE:HG23	2.56	0.41
3:BF:140:VAL:CG1	3:BF:260:VAL:HG22	2.50	0.41
3:BG:52:ASN:O	3:BO:57:LEU:CD2	2.68	0.41
3:BH:162:GLU:CB	3:BH:253:GLY:C	2.89	0.41
3:BI:289:TRP:HZ3	3:BI:292:TRP:CE2	2.35	0.41
3:BJ:137:TYR:HB3	3:BJ:310:MET:SD	2.61	0.41
3:BJ:159:ILE:CG2	3:BJ:258:VAL:CB	2.98	0.41
3:BK:201:GLN:O	3:BK:202:THR:CB	2.69	0.41
3:BL:174:TYR:CG	3:BL:198:LEU:HD11	2.53	0.41
3:BL:290:LYS:HB2	3:BL:290:LYS:HE3	1.59	0.41
3:BN:85:TYR:CZ	3:BN:98:TRP:CH2	3.08	0.41
3:BN:128:SER:HB2	3:BN:155:LEU:HD13	1.88	0.41
3:BO:55:ILE:HD13	3:BO:322:PHE:HB3	2.01	0.41
3:BO:142:MET:HE3	3:BO:142:MET:HB3	1.71	0.41
3:BO:229:VAL:CB	3:BO:235:HIS:CE1	3.02	0.41
3:BO:316:SER:O	3:BO:317:LEU:C	2.59	0.41
3:BP:81:LEU:HB3	3:BP:116:VAL:HG22	2.02	0.41
4:BX:271:ILE:HG22	4:BX:466:GLY:O	2.21	0.41
4:BX:487:SER:O	4:BX:488:VAL:C	2.59	0.41
4:BX:559:ASN:O	4:BX:560:SER:C	2.58	0.41
4:BX:560:SER:O	4:BX:563:THR:HB	2.21	0.41
4:BX:563:THR:HG22	4:BX:564:LEU:N	2.36	0.41
4:BX:585:GLY:CA	4:BX:709:ALA:CB	2.97	0.41
4:BX:640:VAL:HG13	4:BX:644:LYS:HZ2	1.85	0.41
4:BX:677:ASN:HD22	4:BX:711:LEU:HD13	1.82	0.41
4:BY:661:THR:O	4:BY:662:GLU:C	2.59	0.41
4:BY:694:ARG:O	4:BY:696:GLU:N	2.53	0.41
4:BY:734:TYR:HE1	4:BY:762:ILE:HD11	1.85	0.41
4:BZ:2:ALA:HB3	4:BZ:635:ASP:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:519:ASP:C	4:BZ:521:ALA:N	2.69	0.41
1:AA:126:PHE:HD2	1:AA:150:LEU:CA	2.34	0.41
1:AA:264:PRO:O	1:AA:298:TYR:CD2	2.59	0.41
1:AA:282:VAL:C	1:AA:284:TYR:H	2.24	0.41
1:AA:399:THR:O	1:AA:401:TYR:CD1	2.74	0.41
1:AA:503:VAL:HG13	1:AA:506:LEU:HB2	2.00	0.41
1:AA:578:LEU:HA	1:AA:581:VAL:CG2	2.51	0.41
1:AA:646:LEU:HD23	1:AA:646:LEU:N	2.36	0.41
1:AA:659:ASP:O	1:AA:660:ASP:O	2.39	0.41
1:AA:735:LEU:HG	1:AA:760:VAL:O	2.21	0.41
1:AA:790:ARG:CZ	1:AB:287:ASN:OD1	2.68	0.41
1:AA:815:TYR:CD1	1:AA:815:TYR:N	2.89	0.41
1:AB:126:PHE:HB2	1:AB:149:LYS:O	2.21	0.41
1:AB:130:GLN:O	1:AB:131:LEU:HD23	2.21	0.41
1:AB:370:ILE:HG22	1:AB:373:GLN:HB3	2.02	0.41
1:AB:392:MET:CA	1:AB:573:THR:HG23	2.50	0.41
1:AB:420:ILE:O	1:AB:421:ARG:C	2.60	0.41
1:AB:544:VAL:O	1:AB:545:ASP:C	2.58	0.41
1:AB:589:GLY:C	1:AB:591:ALA:H	2.25	0.41
1:AB:681:ILE:HD12	1:AB:681:ILE:HA	1.79	0.41
1:AB:722:ASN:O	1:AB:824:LYS:CB	2.65	0.41
1:AB:796:LYS:HA	1:AB:797:PRO:HD3	1.88	0.41
2:AC:110:ALA:HB1	2:AC:111:PRO:CD	2.51	0.41
2:AC:169:SER:O	3:BO:53:TYR:HD1	2.03	0.41
2:AC:239:ASN:CG	3:BG:67:TYR:CZ	2.80	0.41
2:AC:246:THR:CG2	3:BG:67:TYR:CE2	3.00	0.41
2:AE:1:MET:C	2:AE:3:VAL:N	2.73	0.41
2:AE:2:ASP:O	2:AE:5:TYR:HB3	2.21	0.41
2:AE:125:LYS:C	2:AE:127:ILE:H	2.24	0.41
2:AE:164:PHE:H	3:BF:61:GLY:CA	2.33	0.41
2:AF:110:ALA:HB1	2:AF:111:PRO:CD	2.51	0.41
2:AF:124:PHE:C	2:AF:126:ARG:N	2.73	0.41
2:AG:23:LEU:HD22	2:AG:25:SER:H	1.86	0.41
2:AG:31:ILE:O	2:AG:34:PHE:HB3	2.21	0.41
2:AG:299:ASN:ND2	3:BK:71:THR:CB	2.83	0.41
2:AH:106:ARG:HB3	2:AH:107:ASN:H	1.63	0.41
2:AH:355:ILE:HA	2:AH:356:PRO:HD3	1.96	0.41
2:AI:74:ASP:OD2	2:AI:76:ASN:HB3	2.20	0.41
2:AJ:68:THR:O	2:AJ:68:THR:CG2	2.69	0.41
2:AJ:235:PRO:HA	2:AJ:249:PHE:O	2.21	0.41
2:AK:10:THR:O	2:AK:14:ALA:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AL:59:TRP:CD1	2:AL:59:TRP:N	2.89	0.41
2:AL:152:PHE:O	2:AL:328:SER:HA	2.21	0.41
2:AN:1:MET:O	2:AN:4:LEU:N	2.54	0.41
2:AN:2:ASP:O	2:AN:3:VAL:C	2.57	0.41
2:AN:2:ASP:O	2:AN:5:TYR:HB3	2.21	0.41
2:AN:89:VAL:C	2:AN:91:PHE:N	2.73	0.41
2:AN:125:LYS:C	2:AN:127:ILE:H	2.24	0.41
3:BA:111:TRP:HA	3:BA:112:PRO:HD2	1.85	0.41
3:BA:137:TYR:HB3	3:BA:310:MET:SD	2.61	0.41
3:BA:269:LEU:O	3:BA:269:LEU:HG	2.21	0.41
3:BA:303:VAL:HG23	3:BA:303:VAL:H	1.56	0.41
3:BF:137:TYR:HB3	3:BF:310:MET:SD	2.61	0.41
3:BF:191:CYS:N	3:BF:244:CYS:SG	2.91	0.41
3:BF:293:TRP:O	3:BF:297:TYR:CD1	2.66	0.41
3:BG:78:THR:O	3:BG:78:THR:CG2	2.69	0.41
3:BG:111:TRP:HE3	3:BG:115:SER:OG	2.04	0.41
3:BG:274:ASP:HB2	3:BH:302:TYR:CD1	2.55	0.41
3:BI:164:LEU:HD13	3:BI:322:PHE:CE2	2.53	0.41
3:BI:251:LYS:HZ3	3:BI:271:ILE:CG2	2.31	0.41
3:BI:323:TYR:O	3:BI:323:TYR:HD2	2.04	0.41
3:BJ:140:VAL:CG1	3:BJ:260:VAL:HG22	2.50	0.41
3:BJ:313:ARG:O	3:BJ:315:ARG:N	2.54	0.41
3:BK:85:TYR:CZ	3:BK:98:TRP:CH2	3.08	0.41
3:BK:130:ASP:N	3:BK:131:PRO:CD	2.83	0.41
3:BL:72:GLN:H	3:BL:72:GLN:HG3	1.69	0.41
3:BL:140:VAL:CG1	3:BL:260:VAL:HG22	2.50	0.41
3:BL:178:THR:N	3:BL:182:ASN:HD22	2.13	0.41
3:BM:137:TYR:CE2	3:BM:307:ILE:HG23	2.56	0.41
3:BM:253:GLY:HA2	3:BM:254:PRO:HD3	1.56	0.41
3:BM:274:ASP:HB2	3:BN:302:TYR:CD1	2.55	0.41
3:BM:275:PRO:HG2	3:BN:306:ILE:HG12	2.02	0.41
3:BN:137:TYR:CE2	3:BN:310:MET:HG3	2.56	0.41
3:BN:140:VAL:CG1	3:BN:260:VAL:HG22	2.51	0.41
3:BO:275:PRO:HG2	3:BP:306:ILE:HG12	2.02	0.41
3:BP:85:TYR:CZ	3:BP:98:TRP:CH2	3.08	0.41
3:BP:274:ASP:HB2	3:BP:275:PRO:CD	2.51	0.41
3:BQ:196:CYS:HA	3:BQ:197:PRO:HD2	1.83	0.41
4:BX:542:LYS:HB2	4:BX:543:SER:H	1.76	0.41
4:BX:544:MET:O	4:BX:547:SER:N	2.53	0.41
4:BX:593:ASP:HA	4:BX:596:THR:CB	2.51	0.41
4:BX:734:TYR:CE2	4:BX:761:PRO:CG	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BX:755:PHE:CD2	4:BX:763:ILE:HD11	2.56	0.41
4:BX:759:ASP:O	4:BX:760:ASN:ND2	2.54	0.41
4:BY:46:ALA:HB1	4:BZ:336:ASP:OD1	2.19	0.41
4:BY:130:ILE:HD12	4:BY:130:ILE:C	2.41	0.41
4:BY:509:SER:C	4:BY:511:GLU:N	2.74	0.41
4:BY:606:SER:O	4:BY:607:SER:O	2.39	0.41
4:BY:693:TYR:HD1	4:BY:693:TYR:N	2.19	0.41
4:BY:730:LEU:HD23	4:BY:736:ILE:HD11	2.03	0.41
4:BZ:618:ARG:CZ	4:BZ:618:ARG:HB2	2.51	0.41
4:BZ:686:THR:CG2	4:BZ:687:ASP:N	2.83	0.41
4:BZ:715:SER:HB3	4:BZ:716:PRO:CD	2.45	0.41
1:AA:253:ASN:HA	1:AA:256:PHE:CD1	2.55	0.41
1:AA:466:PHE:N	1:AA:466:PHE:CD1	2.89	0.41
1:AA:529:ILE:HG23	1:AA:530:GLN:H	1.82	0.41
1:AA:678:ARG:H	1:AA:678:ARG:HG2	1.63	0.41
1:AA:766:ILE:HG23	1:AA:798:ILE:HG23	2.03	0.41
1:AB:237:ASN:N	1:AB:237:ASN:ND2	2.68	0.41
1:AB:499:ASN:O	1:AB:500:GLY:O	2.39	0.41
1:AB:646:LEU:HD23	1:AB:646:LEU:N	2.36	0.41
2:AC:140:ASN:O	2:AC:143:ASN:N	2.51	0.41
2:AC:235:PRO:HA	2:AC:249:PHE:O	2.20	0.41
2:AD:109:ILE:HD12	2:AD:109:ILE:O	2.19	0.41
2:AE:270:ILE:HA	4:BY:728:LYS:CE	2.44	0.41
2:AF:152:PHE:O	2:AF:328:SER:HA	2.21	0.41
2:AG:42:ASN:HA	2:AG:61:PHE:CB	2.51	0.41
2:AG:204:ASN:HB3	2:AG:296:ARG:HB3	2.03	0.41
2:AI:5:TYR:O	2:AI:6:SER:C	2.58	0.41
2:AJ:171:PRO:CG	3:BM:312:LYS:NZ	2.84	0.41
2:AJ:310:ASN:CB	3:BM:180:GLU:OE2	2.67	0.41
2:AK:163:SER:HB3	3:BN:62:SER:CA	2.51	0.41
2:AN:24:TYR:HE1	2:AN:31:ILE:HG13	1.85	0.41
2:AN:235:PRO:HA	2:AN:249:PHE:O	2.21	0.41
3:BA:172:LEU:HB2	3:BA:173:TYR:CD1	2.56	0.41
3:BH:149:GLN:HG3	3:BH:150:LEU:H	1.80	0.41
3:BH:253:GLY:HA2	3:BH:254:PRO:HD3	1.61	0.41
3:BI:111:TRP:HE3	3:BI:115:SER:OG	2.04	0.41
3:BI:251:LYS:HZ3	3:BI:271:ILE:HG21	1.86	0.41
3:BI:313:ARG:HH11	3:BI:313:ARG:HD3	1.56	0.41
3:BJ:316:SER:HA	3:BJ:325:ARG:CA	2.49	0.41
3:BK:129:VAL:CG2	3:BK:223:LYS:NZ	2.85	0.41
3:BK:137:TYR:HB3	3:BK:310:MET:SD	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:93:ILE:HG23	3:BL:293:TRP:HE1	1.85	0.41
3:BL:137:TYR:CE2	3:BL:307:ILE:HG23	2.56	0.41
3:BM:289:TRP:HZ3	3:BM:292:TRP:NE1	2.18	0.41
3:BN:164:LEU:HD12	3:BN:164:LEU:HA	1.93	0.41
3:BO:172:LEU:HB2	3:BO:173:TYR:CD1	2.56	0.41
3:BP:55:ILE:O	3:BP:56:ASN:C	2.58	0.41
3:BP:137:TYR:HB3	3:BP:310:MET:SD	2.61	0.41
3:BP:172:LEU:HB2	3:BP:173:TYR:CD1	2.56	0.41
3:BQ:175:TYR:O	3:BQ:234:ASN:OD1	2.38	0.41
4:BX:551:LYS:HG3	4:BX:658:ASP:H	1.85	0.41
4:BY:350:TYR:OH	4:BY:427:ARG:CZ	2.67	0.41
4:BY:350:TYR:CD2	4:BY:427:ARG:HD2	2.56	0.41
4:BY:559:ASN:O	4:BY:562:SER:N	2.54	0.41
4:BY:692:ALA:CB	4:BY:701:ILE:HG23	2.50	0.41
4:BZ:369:ARG:NH1	4:BZ:535:LYS:CB	2.84	0.41
4:BZ:670:ASN:O	4:BZ:671:ARG:HG2	2.20	0.41
1:AA:159:ASP:O	1:AA:162:VAL:HB	2.22	0.40
1:AA:162:VAL:HG21	1:AA:762:ALA:HB2	2.03	0.40
1:AA:277:ARG:HD3	1:AA:559:ALA:HB1	2.00	0.40
1:AA:503:VAL:CG1	1:AA:506:LEU:H	2.34	0.40
1:AA:506:LEU:HD21	1:AA:544:VAL:N	2.35	0.40
1:AA:563:MET:O	1:AA:565:MET:N	2.54	0.40
1:AA:766:ILE:CG2	1:AA:766:ILE:O	2.68	0.40
1:AB:244:ILE:O	1:AB:244:ILE:HG23	2.21	0.40
1:AB:378:CYS:HB2	1:AB:580:SER:CB	2.50	0.40
1:AB:461:GLN:OE1	1:AB:461:GLN:HA	2.21	0.40
1:AB:666:ARG:O	1:AB:667:ASP:C	2.60	0.40
1:AB:842:LEU:HA	1:AB:842:LEU:HD23	1.83	0.40
1:AB:876:ILE:HG13	1:AB:877:MET:N	2.34	0.40
2:AD:153:HIS:NE2	2:AE:153:HIS:CD2	2.89	0.40
2:AD:235:PRO:HA	2:AD:249:PHE:O	2.21	0.40
2:AE:109:ILE:O	2:AE:109:ILE:HG13	2.20	0.40
2:AE:272:THR:HG21	4:BY:725:LYS:O	2.22	0.40
2:AG:23:LEU:HD23	2:AG:24:TYR:H	1.82	0.40
2:AG:310:ASN:HB2	3:BJ:180:GLU:OE2	2.20	0.40
2:AH:45:GLU:HG2	2:AH:60:ASN:OD1	2.21	0.40
2:AJ:31:ILE:O	2:AJ:34:PHE:HB3	2.21	0.40
2:AL:62:ASP:H	2:AL:63:PHE:HD1	1.70	0.40
2:AL:89:VAL:C	2:AL:91:PHE:N	2.73	0.40
3:BA:85:TYR:CZ	3:BA:98:TRP:CH2	3.08	0.40
3:BA:129:VAL:HG22	3:BA:223:LYS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:85:TYR:CZ	3:BF:98:TRP:CH2	3.08	0.40
3:BF:289:TRP:C	3:BF:289:TRP:CD1	2.93	0.40
3:BG:137:TYR:CE2	3:BG:307:ILE:HG23	2.56	0.40
3:BG:175:TYR:O	3:BG:234:ASN:OD1	2.39	0.40
3:BI:191:CYS:HG	3:BI:244:CYS:HB3	1.85	0.40
3:BJ:137:TYR:CE2	3:BJ:307:ILE:HG23	2.56	0.40
3:BJ:322:PHE:CD2	3:BL:313:ARG:HB3	2.57	0.40
3:BK:56:ASN:C	3:BK:57:LEU:HG	2.41	0.40
3:BL:163:TRP:O	3:BL:322:PHE:HE1	2.00	0.40
3:BL:303:VAL:O	3:BL:307:ILE:HG12	2.20	0.40
3:BL:310:MET:HG3	3:BL:311:SER:H	1.86	0.40
3:BM:137:TYR:HB3	3:BM:310:MET:SD	2.61	0.40
3:BM:150:LEU:CD2	3:BN:289:TRP:O	2.41	0.40
3:BN:125:ALA:O	3:BN:128:SER:OG	2.31	0.40
3:BN:307:ILE:HD13	3:BN:310:MET:SD	2.62	0.40
3:BQ:137:TYR:CE2	3:BQ:307:ILE:HG23	2.56	0.40
3:BQ:140:VAL:CG1	3:BQ:260:VAL:HG22	2.50	0.40
3:BQ:307:ILE:HD13	3:BQ:310:MET:SD	2.60	0.40
4:BX:25:ILE:CG2	4:BY:26:GLY:O	2.69	0.40
4:BX:30:THR:HG22	4:BX:31:GLN:N	2.36	0.40
4:BX:479:ASP:C	4:BX:481:GLN:H	2.25	0.40
4:BX:589:SER:C	4:BX:593:ASP:OD1	2.60	0.40
4:BY:15:THR:O	4:BY:17:ASP:N	2.54	0.40
4:BY:544:MET:C	4:BY:546:THR:N	2.74	0.40
4:BY:556:GLY:O	4:BY:557:LEU:C	2.59	0.40
4:BY:674:ARG:HH11	4:BY:720:ALA:CB	2.34	0.40
4:BY:755:PHE:O	4:BY:756:ILE:C	2.58	0.40
4:BZ:589:SER:H	4:BZ:593:ASP:CG	2.21	0.40
1:AA:199:VAL:HG11	1:AA:204:THR:HG22	1.99	0.40
1:AA:681:ILE:HG23	1:AA:682:PHE:N	2.36	0.40
1:AB:328:LEU:O	1:AB:331:SER:HB3	2.21	0.40
1:AB:447:TYR:O	1:AB:448:ARG:CG	2.69	0.40
1:AB:452:PRO:C	1:AB:453:GLN:O	2.60	0.40
1:AB:631:LEU:HG	1:AB:631:LEU:O	2.21	0.40
1:AB:826:TYR:O	1:AB:827:LYS:C	2.60	0.40
1:AB:833:PHE:CZ	1:AB:835:PHE:CA	3.04	0.40
2:AD:65:LEU:HB3	2:AD:66:LEU:H	1.73	0.40
2:AE:59:TRP:CD1	2:AE:59:TRP:N	2.88	0.40
2:AG:73:LEU:HD22	2:AG:77:TYR:CD2	2.57	0.40
2:AG:124:PHE:O	2:AG:126:ARG:N	2.53	0.40
2:AH:59:TRP:CD1	2:AH:59:TRP:N	2.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AH:74:ASP:O	2:AH:75:ALA:C	2.58	0.40
2:AI:5:TYR:HE2	2:AI:131:ASN:HA	1.84	0.40
2:AI:131:ASN:N	2:AI:131:ASN:ND2	2.69	0.40
2:AJ:23:LEU:HD22	2:AJ:25:SER:H	1.86	0.40
2:AL:110:ALA:HB1	2:AL:111:PRO:CD	2.51	0.40
2:AL:214:LEU:N	2:AL:214:LEU:HD23	2.37	0.40
2:AN:10:THR:O	2:AN:14:ALA:HB2	2.20	0.40
2:AO:2:ASP:O	2:AO:5:TYR:HB3	2.20	0.40
3:BA:289:TRP:CD1	3:BA:289:TRP:C	2.93	0.40
3:BG:170:ILE:CD1	3:BG:239:VAL:HG23	2.43	0.40
3:BI:69:ASN:O	3:BI:70:SER:HB3	2.21	0.40
3:BI:85:TYR:CZ	3:BI:98:TRP:CH2	3.08	0.40
3:BI:140:VAL:CG1	3:BI:260:VAL:HG22	2.50	0.40
3:BL:201:GLN:O	3:BL:202:THR:CB	2.69	0.40
3:BM:172:LEU:HB2	3:BM:173:TYR:CD1	2.56	0.40
3:BM:191:CYS:N	3:BM:244:CYS:SG	2.91	0.40
3:BO:111:TRP:HE3	3:BO:115:SER:OG	2.04	0.40
3:BP:111:TRP:HE3	3:BP:115:SER:OG	2.05	0.40
3:BP:201:GLN:O	3:BP:202:THR:CB	2.69	0.40
3:BQ:81:LEU:HB3	3:BQ:116:VAL:HG22	2.02	0.40
3:BQ:126:SER:CA	3:BQ:223:LYS:HZ2	2.27	0.40
4:BX:107:LEU:HD11	4:BX:138:TRP:HB3	2.03	0.40
4:BX:130:ILE:HD12	4:BX:130:ILE:C	2.41	0.40
4:BX:566:ASP:O	4:BX:569:SER:N	2.55	0.40
4:BX:598:ILE:CG1	4:BX:600:ASP:OD2	2.70	0.40
4:BY:45:TYR:HD2	4:BY:366:VAL:CG1	2.24	0.40
4:BY:604:SER:O	4:BY:605:VAL:HG13	2.21	0.40
4:BZ:23:GLN:O	4:BZ:27:SER:N	2.54	0.40
4:BZ:553:LYS:O	4:BZ:554:LYS:HB2	2.20	0.40
4:BZ:559:ASN:O	4:BZ:562:SER:N	2.54	0.40
4:BZ:656:LEU:O	4:BZ:657:PRO:O	2.40	0.40
4:BZ:761:PRO:HB2	4:BZ:762:ILE:H	1.69	0.40
4:BZ:773:GLN:C	4:BZ:775:ARG:H	2.24	0.40
1:AA:135:ARG:C	1:AA:136:ALA:O	2.57	0.40
1:AA:216:GLU:HG2	1:AA:218:GLU:H	1.86	0.40
1:AA:411:LEU:HA	1:AA:411:LEU:HD23	1.91	0.40
1:AA:447:TYR:OH	1:AA:458:ILE:CG2	2.62	0.40
1:AA:636:LYS:O	1:AA:637:LYS:C	2.60	0.40
1:AA:654:ILE:O	1:AA:657:VAL:CG2	2.66	0.40
1:AB:305:GLN:HG3	1:AB:564:ASN:HD21	1.86	0.40
1:AB:413:VAL:O	1:AB:414:VAL:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:434:THR:O	1:AB:435:ILE:CG1	2.69	0.40
1:AB:481:ARG:HG2	1:AB:481:ARG:NH1	2.14	0.40
1:AB:503:VAL:C	1:AB:505:GLN:N	2.74	0.40
1:AB:549:LEU:O	1:AB:550:LEU:C	2.57	0.40
1:AB:666:ARG:HA	1:AB:669:LEU:HD12	2.02	0.40
1:AB:673:PRO:C	1:AB:674:VAL:CG2	2.90	0.40
1:AB:745:ALA:CB	1:AB:748:THR:CB	2.97	0.40
1:AB:807:ASN:C	1:AB:809:PHE:N	2.74	0.40
1:AB:826:TYR:O	1:AB:828:GLN:N	2.54	0.40
2:AC:131:ASN:N	2:AC:131:ASN:ND2	2.69	0.40
2:AD:24:TYR:O	2:AD:26:ASN:N	2.55	0.40
2:AD:214:LEU:N	2:AD:214:LEU:HD23	2.36	0.40
2:AD:313:PRO:CD	3:BH:279:PRO:HB2	2.49	0.40
2:AE:238:ILE:CG2	3:BF:63:MET:CE	2.89	0.40
2:AI:214:LEU:HD23	2:AI:214:LEU:N	2.37	0.40
2:AK:24:TYR:HE1	2:AK:31:ILE:HG13	1.85	0.40
2:AK:170:GLN:HB3	3:BP:52:ASN:HD22	1.86	0.40
2:AM:23:LEU:HD22	2:AM:25:SER:H	1.87	0.40
2:AM:153:HIS:NE2	2:AN:153:HIS:CD2	2.89	0.40
2:AN:101:VAL:HB	2:AN:355:ILE:HG21	2.03	0.40
3:BA:201:GLN:O	3:BA:202:THR:CB	2.69	0.40
3:BF:150:LEU:CD1	3:BG:288:ASN:HB3	2.51	0.40
3:BG:116:VAL:O	3:BG:117:TYR:CG	2.74	0.40
3:BG:159:ILE:CG2	3:BG:258:VAL:CB	2.98	0.40
3:BG:265:GLY:O	3:BG:286:ARG:NH2	2.54	0.40
3:BG:306:ILE:O	3:BG:310:MET:HE2	2.21	0.40
3:BJ:55:ILE:HD12	3:BL:59:ILE:CD1	2.51	0.40
3:BJ:168:MET:HE1	3:BJ:175:TYR:CE1	2.56	0.40
3:BJ:175:TYR:HH	3:BJ:237:LEU:CD2	2.27	0.40
3:BO:321:ALA:C	3:BO:323:TYR:N	2.74	0.40
3:BP:69:ASN:ND2	4:BX:598:ILE:HD12	2.36	0.40
3:BP:137:TYR:CE2	3:BP:307:ILE:HG23	2.56	0.40
4:BX:1:MET:O	4:BX:2:ALA:C	2.60	0.40
4:BX:10:LEU:HD23	4:BX:10:LEU:HA	1.85	0.40
4:BX:18:LEU:HD22	4:BY:19:SER:CB	2.40	0.40
4:BX:540:ALA:HB1	4:BX:653:PRO:CB	2.51	0.40
4:BX:611:GLN:O	4:BX:615:ILE:N	2.44	0.40
4:BX:662:GLU:O	4:BX:665:GLU:HG2	2.22	0.40
4:BX:673:TYR:CD1	4:BX:673:TYR:N	2.89	0.40
4:BX:674:ARG:HH11	4:BX:720:ALA:CB	2.33	0.40
4:BX:689:ARG:O	4:BX:690:PHE:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:27:SER:HB3	4:BZ:350:TYR:CZ	2.56	0.40
4:BY:301:TYR:CE2	4:BY:303:TYR:CD2	3.10	0.40
4:BY:615:ILE:O	4:BY:619:LEU:CG	2.69	0.40
4:BY:626:THR:HG23	4:BZ:524:PRO:HG2	2.02	0.40
4:BY:632:ASN:ND2	4:BY:632:ASN:N	2.69	0.40
4:BY:704:ASP:O	4:BY:705:VAL:C	2.60	0.40
4:BY:758:GLN:HB3	4:BY:759:ASP:H	1.62	0.40
4:BZ:16:VAL:HG21	4:BZ:553:LYS:CE	2.51	0.40
4:BZ:551:LYS:HG3	4:BZ:658:ASP:H	1.87	0.40
1:AA:249:ASP:O	1:AA:250:HIS:C	2.57	0.40
1:AA:277:ARG:NH1	1:AA:486:ASP:HB3	2.36	0.40
1:AA:320:THR:HB	1:AA:652:PHE:CE2	2.57	0.40
1:AA:341:SER:O	1:AA:342:THR:C	2.60	0.40
1:AA:421:ARG:HG2	1:AB:523:VAL:HG22	1.95	0.40
1:AA:431:ILE:HG23	1:AA:435:ILE:HD12	2.02	0.40
1:AA:705:ILE:O	1:AA:705:ILE:HG23	2.20	0.40
1:AA:782:VAL:O	1:AA:785:GLN:HG2	2.21	0.40
1:AB:235:ASP:O	1:AB:237:ASN:N	2.49	0.40
1:AB:449:ASN:ND2	1:AB:450:GLY:N	2.64	0.40
1:AB:478:ASN:O	1:AB:478:ASN:CG	2.60	0.40
1:AB:646:LEU:O	1:AB:649:LEU:HB2	2.21	0.40
1:AB:699:ILE:HG23	1:AB:763:LEU:H	1.87	0.40
1:AB:803:ASN:C	1:AB:805:ASP:H	2.25	0.40
2:AE:24:TYR:HE1	2:AE:31:ILE:HG13	1.85	0.40
2:AH:38:ILE:HG21	2:AH:64:GLY:O	2.22	0.40
2:AH:125:LYS:C	2:AH:127:ILE:H	2.24	0.40
2:AI:62:ASP:H	2:AI:63:PHE:HD1	1.70	0.40
2:AJ:125:LYS:O	2:AJ:127:ILE:N	2.55	0.40
2:AK:2:ASP:O	2:AK:5:TYR:HB3	2.21	0.40
2:AK:78:VAL:O	2:AK:81:ALA:HB3	2.22	0.40
2:AK:163:SER:HB3	3:BN:62:SER:HA	2.01	0.40
2:AL:116:LEU:O	2:AL:119:LEU:N	2.52	0.40
2:AL:204:ASN:HB3	2:AL:296:ARG:HB3	2.03	0.40
2:AM:24:TYR:O	2:AM:26:ASN:N	2.55	0.40
2:AM:214:LEU:N	2:AM:214:LEU:HD23	2.37	0.40
2:AM:241:ALA:HB3	3:BQ:59:ILE:HG21	1.82	0.40
2:AN:241:ALA:CB	3:BO:59:ILE:HG21	2.51	0.40
3:BF:144:TYR:N	3:BF:263:VAL:O	2.51	0.40
3:BF:268:VAL:O	3:BG:266:SER:CB	2.69	0.40
3:BG:162:GLU:CB	3:BG:253:GLY:C	2.88	0.40
3:BG:275:PRO:HG2	3:BH:306:ILE:HG12	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:172:LEU:HB3	3:BH:173:TYR:CE1	2.56	0.40
3:BI:270:ASP:C	3:BI:271:ILE:HG13	2.40	0.40
3:BJ:111:TRP:HE3	3:BJ:115:SER:OG	2.05	0.40
3:BJ:263:VAL:CG1	3:BJ:289:TRP:HE3	2.35	0.40
3:BO:55:ILE:CD1	3:BO:323:TYR:CD1	3.00	0.40
3:BO:201:GLN:O	3:BO:202:THR:CB	2.69	0.40
3:BQ:172:LEU:HB2	3:BQ:173:TYR:CD1	2.56	0.40
4:BX:677:ASN:O	4:BX:678:ASN:CB	2.68	0.40
4:BY:353:VAL:CG2	4:BY:426:PHE:HB2	2.51	0.40
4:BY:628:THR:CG2	4:BY:717:VAL:O	2.68	0.40
4:BZ:644:LYS:HE3	4:BZ:644:LYS:HB3	1.78	0.40
4:BZ:676:ILE:HG21	4:BZ:746:ARG:NH1	2.37	0.40
1:AA:150:LEU:CD2	1:AA:152:ARG:O	2.69	0.40
1:AA:388:SER:O	1:AA:389:GLN:CG	2.70	0.40
1:AA:649:LEU:C	1:AA:650:GLN:O	2.59	0.40
1:AA:774:LEU:HB2	1:AA:800:TYR:CD2	2.56	0.40
1:AA:880:LEU:H	1:AA:880:LEU:HG	1.53	0.40
1:AB:204:THR:HG23	1:AB:244:ILE:H	1.86	0.40
1:AB:292:LEU:HA	1:AB:292:LEU:HD23	1.88	0.40
1:AB:295:THR:O	1:AB:297:ARG:HG2	2.21	0.40
1:AB:394:LEU:N	1:AB:423:SER:OG	2.54	0.40
1:AB:415:PRO:O	1:AB:416:ASN:C	2.58	0.40
1:AB:419:PHE:HB3	1:AB:424:LEU:CG	2.51	0.40
1:AB:441:GLY:O	1:AB:442:MET:O	2.40	0.40
1:AB:502:VAL:HG12	1:AB:504:ASN:HD22	1.86	0.40
1:AB:544:VAL:O	1:AB:546:LEU:N	2.54	0.40
1:AB:604:TYR:O	1:AB:605:ASN:C	2.58	0.40
1:AB:622:VAL:O	1:AB:623:ALA:C	2.59	0.40
1:AB:745:ALA:C	1:AB:747:ILE:N	2.74	0.40
2:AC:78:VAL:O	2:AC:81:ALA:HB3	2.22	0.40
2:AC:255:ARG:CD	3:BH:65:THR:HB	2.51	0.40
2:AD:4:LEU:HA	2:AD:7:LEU:CD1	2.48	0.40
2:AD:65:LEU:HD23	2:AD:65:LEU:HA	1.88	0.40
2:AE:69:THR:HG22	2:AE:70:LEU:H	1.87	0.40
2:AE:119:LEU:C	2:AE:121:GLY:N	2.75	0.40
2:AF:78:VAL:O	2:AF:81:ALA:HB3	2.22	0.40
2:AF:204:ASN:HB3	2:AF:296:ARG:HB3	2.03	0.40
2:AG:153:HIS:NE2	2:AH:153:HIS:CD2	2.89	0.40
2:AG:239:ASN:HD22	3:BJ:65:THR:HA	1.85	0.40
2:AH:101:VAL:HB	2:AH:355:ILE:HG21	2.03	0.40
2:AH:204:ASN:HB3	2:AH:296:ARG:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AH:378:ARG:O	2:AH:382:LEU:HB2	2.22	0.40
2:AI:313:PRO:CD	3:BL:279:PRO:HB2	2.51	0.40
2:AJ:23:LEU:HD23	2:AJ:24:TYR:H	1.82	0.40
2:AJ:24:TYR:O	2:AJ:26:ASN:N	2.55	0.40
2:AJ:153:HIS:NE2	2:AK:153:HIS:CD2	2.89	0.40
2:AL:78:VAL:O	2:AL:81:ALA:HB3	2.22	0.40
2:AL:131:ASN:N	2:AL:131:ASN:ND2	2.69	0.40
2:AM:74:ASP:O	2:AM:75:ALA:C	2.58	0.40
2:AM:116:LEU:O	2:AM:117:ARG:C	2.60	0.40
2:AO:13:ASP:O	2:AO:17:LYS:HB2	2.21	0.40
3:BF:201:GLN:O	3:BF:202:THR:CB	2.69	0.40
3:BG:159:ILE:HG22	3:BG:258:VAL:HB	2.04	0.40
3:BG:191:CYS:N	3:BG:244:CYS:SG	2.91	0.40
3:BH:201:GLN:O	3:BH:202:THR:CB	2.69	0.40
3:BI:201:GLN:O	3:BI:202:THR:CB	2.69	0.40
3:BK:83:LEU:HD23	3:BK:139:VAL:CG1	2.47	0.40
3:BK:111:TRP:HE3	3:BK:115:SER:OG	2.05	0.40
3:BK:255:ARG:CD	3:BK:257:ASN:HD22	2.34	0.40
3:BM:267:ASP:HB3	3:BM:286:ARG:HH12	1.79	0.40
3:BN:111:TRP:HE3	3:BN:115:SER:OG	2.05	0.40
3:BO:93:ILE:HG23	3:BO:293:TRP:HE1	1.85	0.40
3:BO:133:LEU:HD23	3:BO:133:LEU:HA	1.91	0.40
3:BO:234:ASN:C	3:BO:235:HIS:CD2	2.95	0.40
3:BP:144:TYR:HD1	3:BP:265:GLY:CA	2.35	0.40
4:BX:25:ILE:HG21	4:BY:26:GLY:CA	2.52	0.40
4:BX:620:ARG:HH11	4:BX:686:THR:HG21	1.81	0.40
4:BX:667:PHE:HB3	4:BX:774:CYS:SG	2.62	0.40
4:BY:274:ARG:HA	4:BY:462:TYR:O	2.21	0.40
4:BY:353:VAL:HG23	4:BY:353:VAL:O	2.22	0.40
4:BY:584:VAL:N	4:BY:596:THR:HG21	2.14	0.40
4:BZ:371:LEU:HD12	4:BZ:424:LEU:HD13	2.04	0.40
4:BZ:424:LEU:O	4:BZ:425:ARG:C	2.60	0.40
4:BZ:683:GLU:OE2	4:BZ:723:ASP:HB2	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 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 EM 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	AA	779/800 (97%)	431 (55%)	210 (27%)	138 (18%)	0 2
1	AB	798/800 (100%)	463 (58%)	209 (26%)	126 (16%)	0 2
2	AC	395/397 (100%)	327 (83%)	48 (12%)	20 (5%)	1 17
2	AD	395/397 (100%)	331 (84%)	42 (11%)	22 (6%)	1 16
2	AE	395/397 (100%)	332 (84%)	44 (11%)	19 (5%)	2 18
2	AF	395/397 (100%)	327 (83%)	48 (12%)	20 (5%)	1 17
2	AG	395/397 (100%)	334 (85%)	42 (11%)	19 (5%)	2 18
2	AH	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	2 18
2	AI	395/397 (100%)	327 (83%)	48 (12%)	20 (5%)	1 17
2	AJ	395/397 (100%)	334 (85%)	40 (10%)	21 (5%)	1 17
2	AK	395/397 (100%)	334 (85%)	42 (11%)	19 (5%)	2 18
2	AL	395/397 (100%)	327 (83%)	48 (12%)	20 (5%)	1 17
2	AM	395/397 (100%)	333 (84%)	40 (10%)	22 (6%)	1 16
2	AN	395/397 (100%)	332 (84%)	44 (11%)	19 (5%)	2 18
2	AO	395/397 (100%)	321 (81%)	51 (13%)	23 (6%)	1 16
3	BA	253/276 (92%)	209 (83%)	28 (11%)	16 (6%)	1 15
3	BF	261/276 (95%)	216 (83%)	28 (11%)	17 (6%)	1 14
3	BG	271/276 (98%)	214 (79%)	39 (14%)	18 (7%)	1 14
3	BH	253/276 (92%)	210 (83%)	27 (11%)	16 (6%)	1 15
3	BI	271/276 (98%)	214 (79%)	34 (12%)	23 (8%)	0 9
3	BJ	272/276 (99%)	221 (81%)	32 (12%)	19 (7%)	1 12
3	BK	267/276 (97%)	213 (80%)	34 (13%)	20 (8%)	1 12
3	BL	270/276 (98%)	218 (81%)	34 (13%)	18 (7%)	1 13
3	BM	253/276 (92%)	214 (85%)	24 (10%)	15 (6%)	1 15
3	BN	273/276 (99%)	222 (81%)	30 (11%)	21 (8%)	1 11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	BO	272/276 (99%)	219 (80%)	31 (11%)	22 (8%)	1 10
3	BP	271/276 (98%)	220 (81%)	33 (12%)	18 (7%)	1 14
3	BQ	253/276 (92%)	211 (83%)	28 (11%)	14 (6%)	1 16
4	BX	729/776 (94%)	514 (70%)	105 (14%)	110 (15%)	0 3
4	BY	732/776 (94%)	521 (71%)	119 (16%)	92 (13%)	0 4
4	BZ	511/776 (66%)	326 (64%)	95 (19%)	90 (18%)	0 2
All	All	12124/12677 (96%)	9346 (77%)	1722 (14%)	1056 (9%)	1 9

All (1056) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AA	102	GLU
1	AA	123	PHE
1	AA	131	LEU
1	AA	154	THR
1	AA	155	LEU
1	AA	156	PRO
1	AA	198	LYS
1	AA	219	GLY
1	AA	220	VAL
1	AA	226	ALA
1	AA	227	GLU
1	AA	252	PHE
1	AA	283	ASN
1	AA	299	ILE
1	AA	313	ASN
1	AA	338	GLU
1	AA	340	VAL
1	AA	413	VAL
1	AA	416	ASN
1	AA	452	PRO
1	AA	453	GLN
1	AA	484	VAL
1	AA	488	VAL
1	AA	489	LEU
1	AA	497	ILE
1	AA	523	VAL
1	AA	525	TYR
1	AA	558	MET
1	AA	559	ALA

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Mol	Chain	Res	Type
1	AA	585	CYS
1	AA	650	GLN
1	AA	651	ILE
1	AA	660	ASP
1	AA	676	ILE
1	AA	701	GLN
1	AA	743	ASP
1	AA	770	SER
1	AA	771	VAL
1	AA	772	ILE
1	AA	781	THR
1	AA	782	VAL
1	AA	785	GLN
1	AA	786	ILE
1	AA	793	ASP
1	AA	808	ASP
1	AA	814	ASN
1	AA	816	ASP
1	AA	818	VAL
1	AA	828	GLN
1	AA	847	THR
1	AA	853	ASP
1	AA	855	LEU
1	AA	856	ALA
1	AA	866	ILE
1	AA	877	MET
1	AB	111	ILE
1	AB	118	LYS
1	AB	191	LYS
1	AB	200	VAL
1	AB	215	GLU
1	AB	226	ALA
1	AB	227	GLU
1	AB	230	GLN
1	AB	236	ARG
1	AB	252	PHE
1	AB	261	LEU
1	AB	264	PRO
1	AB	283	ASN
1	AB	306	ASP
1	AB	361	GLN
1	AB	369	GLY

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Mol	Chain	Res	Type
1	AB	398	THR
1	AB	400	ASN
1	AB	436	ILE
1	AB	442	MET
1	AB	446	HIS
1	AB	447	TYR
1	AB	451	ASP
1	AB	452	PRO
1	AB	453	GLN
1	AB	481	ARG
1	AB	487	GLY
1	AB	488	VAL
1	AB	500	GLY
1	AB	504	ASN
1	AB	519	PRO
1	AB	520	THR
1	AB	585	CYS
1	AB	632	ASN
1	AB	638	MET
1	AB	651	ILE
1	AB	654	ILE
1	AB	655	SER
1	AB	728	ASP
1	AB	764	PRO
1	AB	782	VAL
1	AB	785	GLN
1	AB	786	ILE
1	AB	792	VAL
1	AB	806	SER
1	AB	855	LEU
1	AB	856	ALA
1	AB	875	ARG
2	AC	22	THR
2	AC	70	LEU
2	AC	134	GLU
2	AD	72	ASN
2	AD	134	GLU
2	AE	25	SER
2	AE	106	ARG
2	AE	134	GLU
2	AF	22	THR
2	AF	70	LEU

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Mol	Chain	Res	Type
2	AF	134	GLU
2	AG	134	GLU
2	AH	25	SER
2	AH	70	LEU
2	AH	106	ARG
2	AH	134	GLU
2	AI	22	THR
2	AI	70	LEU
2	AI	134	GLU
2	AJ	134	GLU
2	AK	25	SER
2	AK	106	ARG
2	AK	134	GLU
2	AL	22	THR
2	AL	70	LEU
2	AL	134	GLU
2	AM	134	GLU
2	AN	25	SER
2	AN	106	ARG
2	AN	134	GLU
2	AO	24	TYR
2	AO	25	SER
2	AO	65	LEU
2	AO	68	THR
2	AO	70	LEU
2	AO	134	GLU
2	AO	145	ARG
3	BA	130	ASP
3	BA	252	LEU
3	BA	258	VAL
3	BA	270	ASP
3	BF	69	ASN
3	BF	130	ASP
3	BF	149	GLN
3	BF	252	LEU
3	BF	258	VAL
3	BF	267	ASP
3	BG	69	ASN
3	BG	130	ASP
3	BG	252	LEU
3	BG	258	VAL
3	BG	322	PHE

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Mol	Chain	Res	Type
3	BH	69	ASN
3	BH	252	LEU
3	BH	258	VAL
3	BH	268	VAL
3	BI	58	PRO
3	BI	129	VAL
3	BI	131	PRO
3	BI	252	LEU
3	BI	258	VAL
3	BI	270	ASP
3	BI	311	SER
3	BI	315	ARG
3	BI	319	SER
3	BI	321	ALA
3	BJ	252	LEU
3	BJ	253	GLY
3	BJ	258	VAL
3	BJ	317	LEU
3	BJ	319	SER
3	BJ	320	ALA
3	BK	55	ILE
3	BK	56	ASN
3	BK	58	PRO
3	BK	252	LEU
3	BK	258	VAL
3	BK	266	SER
3	BK	311	SER
3	BK	314	SER
3	BK	319	SER
3	BL	55	ILE
3	BL	58	PRO
3	BL	71	THR
3	BL	252	LEU
3	BL	314	SER
3	BL	319	SER
3	BM	252	LEU
3	BM	253	GLY
3	BM	258	VAL
3	BM	265	GLY
3	BN	56	ASN
3	BN	252	LEU
3	BN	318	ASN

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Mol	Chain	Res	Type
3	BN	322	PHE
3	BN	323	TYR
3	BN	324	TYR
3	BO	58	PRO
3	BO	131	PRO
3	BO	253	GLY
3	BO	258	VAL
3	BO	269	LEU
3	BO	311	SER
3	BO	319	SER
3	BO	321	ALA
3	BP	58	PRO
3	BP	131	PRO
3	BP	252	LEU
3	BP	258	VAL
3	BP	313	ARG
3	BP	314	SER
3	BP	321	ALA
3	BQ	131	PRO
3	BQ	175	TYR
3	BQ	252	LEU
3	BQ	253	GLY
3	BQ	258	VAL
4	BX	4	LEU
4	BX	5	ILE
4	BX	40	PHE
4	BX	47	PRO
4	BX	251	ASN
4	BX	417	ASP
4	BX	486	ASN
4	BX	488	VAL
4	BX	489	THR
4	BX	490	VAL
4	BX	501	LEU
4	BX	525	LEU
4	BX	534	ILE
4	BX	550	LYS
4	BX	554	LYS
4	BX	558	ALA
4	BX	582	ARG
4	BX	590	ALA
4	BX	602	SER

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Mol	Chain	Res	Type
4	BX	604	SER
4	BX	607	SER
4	BX	608	ILE
4	BX	618	ARG
4	BX	619	LEU
4	BX	620	ARG
4	BX	621	LEU
4	BX	633	PHE
4	BX	658	ASP
4	BX	671	ARG
4	BX	695	VAL
4	BX	698	PHE
4	BX	709	ALA
4	BX	711	LEU
4	BX	734	TYR
4	BX	736	ILE
4	BX	750	ARG
4	BX	751	VAL
4	BX	754	GLU
4	BX	761	PRO
4	BY	4	LEU
4	BY	5	ILE
4	BY	43	THR
4	BY	47	PRO
4	BY	359	SER
4	BY	500	GLU
4	BY	501	LEU
4	BY	525	LEU
4	BY	550	LYS
4	BY	554	LYS
4	BY	558	ALA
4	BY	573	SER
4	BY	574	SER
4	BY	584	VAL
4	BY	590	ALA
4	BY	598	ILE
4	BY	604	SER
4	BY	607	SER
4	BY	608	ILE
4	BY	621	LEU
4	BY	633	PHE
4	BY	671	ARG

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Mol	Chain	Res	Type
4	BY	709	ALA
4	BY	711	LEU
4	BY	750	ARG
4	BY	751	VAL
4	BY	754	GLU
4	BY	760	ASN
4	BY	763	ILE
4	BZ	4	LEU
4	BZ	5	ILE
4	BZ	28	THR
4	BZ	270	ASP
4	BZ	417	ASP
4	BZ	525	LEU
4	BZ	550	LYS
4	BZ	554	LYS
4	BZ	558	ALA
4	BZ	590	ALA
4	BZ	603	SER
4	BZ	607	SER
4	BZ	608	ILE
4	BZ	620	ARG
4	BZ	650	GLN
4	BZ	652	SER
4	BZ	654	ASN
4	BZ	671	ARG
4	BZ	695	VAL
4	BZ	696	GLU
4	BZ	697	THR
4	BZ	709	ALA
4	BZ	711	LEU
4	BZ	750	ARG
4	BZ	751	VAL
4	BZ	754	GLU
4	BZ	760	ASN
4	BZ	763	ILE
1	AA	142	LEU
1	AA	143	ARG
1	AA	193	SER
1	AA	215	GLU
1	AA	243	SER
1	AA	253	ASN
1	AA	260	GLN

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Mol	Chain	Res	Type
1	AA	265	LEU
1	AA	276	GLU
1	AA	356	GLU
1	AA	369	GLY
1	AA	370	ILE
1	AA	422	GLU
1	AA	457	GLN
1	AA	465	ASN
1	AA	498	ARG
1	AA	500	GLY
1	AA	503	VAL
1	AA	564	ASN
1	AA	573	THR
1	AA	648	ARG
1	AA	661	GLN
1	AA	680	ASP
1	AA	689	MET
1	AA	790	ARG
1	AA	804	SER
1	AA	811	LEU
1	AA	815	TYR
1	AA	854	LEU
1	AA	857	PHE
1	AB	196	ALA
1	AB	218	GLU
1	AB	253	ASN
1	AB	282	VAL
1	AB	399	THR
1	AB	434	THR
1	AB	435	ILE
1	AB	461	GLN
1	AB	491	GLN
1	AB	493	LEU
1	AB	496	ASN
1	AB	524	ASP
1	AB	637	LYS
1	AB	676	ILE
1	AB	699	ILE
1	AB	836	ARG
1	AB	849	THR
2	AC	20	GLU
2	AC	25	SER

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Mol	Chain	Res	Type
2	AD	20	GLU
2	AD	25	SER
2	AD	42	ASN
2	AD	126	ARG
2	AD	148	THR
2	AE	22	THR
2	AE	70	LEU
2	AE	148	THR
2	AF	20	GLU
2	AF	25	SER
2	AG	20	GLU
2	AG	25	SER
2	AG	42	ASN
2	AG	62	ASP
2	AG	126	ARG
2	AG	148	THR
2	AH	22	THR
2	AH	148	THR
2	AI	20	GLU
2	AI	25	SER
2	AJ	20	GLU
2	AJ	25	SER
2	AJ	42	ASN
2	AJ	126	ARG
2	AJ	148	THR
2	AK	22	THR
2	AK	70	LEU
2	AK	148	THR
2	AL	20	GLU
2	AL	25	SER
2	AM	20	GLU
2	AM	25	SER
2	AM	42	ASN
2	AM	126	ARG
2	AM	148	THR
2	AN	22	THR
2	AN	70	LEU
2	AN	148	THR
2	AO	22	THR
2	AO	73	LEU
2	AO	126	ARG
2	AO	148	THR

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Mol	Chain	Res	Type
3	BA	70	SER
3	BA	71	THR
3	BA	144	TYR
3	BA	241	THR
3	BA	275	PRO
3	BF	70	SER
3	BF	71	THR
3	BF	241	THR
3	BF	275	PRO
3	BF	312	LYS
3	BG	68	ALA
3	BG	71	THR
3	BG	241	THR
3	BG	275	PRO
3	BG	311	SER
3	BG	313	ARG
3	BH	71	THR
3	BH	241	THR
3	BH	275	PRO
3	BI	70	SER
3	BI	71	THR
3	BI	241	THR
3	BI	268	VAL
3	BI	275	PRO
3	BJ	70	SER
3	BJ	71	THR
3	BJ	241	THR
3	BJ	275	PRO
3	BJ	311	SER
3	BK	70	SER
3	BK	71	THR
3	BK	241	THR
3	BK	272	THR
3	BK	275	PRO
3	BK	290	LYS
3	BL	70	SER
3	BL	241	THR
3	BL	253	GLY
3	BL	271	ILE
3	BL	275	PRO
3	BL	316	SER
3	BM	71	THR

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Mol	Chain	Res	Type
3	BM	131	PRO
3	BM	241	THR
3	BM	275	PRO
3	BN	58	PRO
3	BN	71	THR
3	BN	241	THR
3	BN	275	PRO
3	BN	319	SER
3	BO	54	GLY
3	BO	67	TYR
3	BO	70	SER
3	BO	71	THR
3	BO	129	VAL
3	BO	241	THR
3	BO	275	PRO
3	BO	322	PHE
3	BO	324	TYR
3	BP	54	GLY
3	BP	71	THR
3	BP	241	THR
3	BP	275	PRO
3	BP	319	SER
3	BQ	71	THR
3	BQ	176	GLN
3	BQ	241	THR
3	BQ	275	PRO
4	BX	23	GLN
4	BX	27	SER
4	BX	41	ALA
4	BX	480	TYR
4	BX	500	GLU
4	BX	503	GLU
4	BX	510	GLN
4	BX	518	ILE
4	BX	520	LEU
4	BX	527	MET
4	BX	533	GLY
4	BX	536	SER
4	BX	537	THR
4	BX	540	ALA
4	BX	541	ALA
4	BX	556	GLY

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Mol	Chain	Res	Type
4	BX	567	SER
4	BX	579	ALA
4	BX	589	SER
4	BX	598	ILE
4	BX	625	ALA
4	BX	686	THR
4	BX	690	PHE
4	BX	702	PRO
4	BX	720	ALA
4	BX	725	LYS
4	BX	733	ASN
4	BX	755	PHE
4	BX	763	ILE
4	BY	30	THR
4	BY	50	TRP
4	BY	348	ASN
4	BY	503	GLU
4	BY	510	GLN
4	BY	518	ILE
4	BY	520	LEU
4	BY	527	MET
4	BY	534	ILE
4	BY	541	ALA
4	BY	553	LYS
4	BY	556	GLY
4	BY	567	SER
4	BY	589	SER
4	BY	605	VAL
4	BY	658	ASP
4	BY	686	THR
4	BY	690	PHE
4	BY	720	ALA
4	BY	735	GLY
4	BY	755	PHE
4	BY	761	PRO
4	BZ	23	GLN
4	BZ	269	ARG
4	BZ	503	GLU
4	BZ	510	GLN
4	BZ	513	ALA
4	BZ	518	ILE
4	BZ	520	LEU

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Mol	Chain	Res	Type
4	BZ	527	MET
4	BZ	541	ALA
4	BZ	553	LYS
4	BZ	556	GLY
4	BZ	567	SER
4	BZ	575	ILE
4	BZ	581	ILE
4	BZ	589	SER
4	BZ	591	TRP
4	BZ	598	ILE
4	BZ	604	SER
4	BZ	621	LEU
4	BZ	624	MET
4	BZ	625	ALA
4	BZ	633	PHE
4	BZ	658	ASP
4	BZ	686	THR
4	BZ	690	PHE
4	BZ	698	PHE
4	BZ	720	ALA
4	BZ	755	PHE
4	BZ	761	PRO
1	AA	130	GLN
1	AA	137	ASN
1	AA	195	ASP
1	AA	201	ASP
1	AA	212	PHE
1	AA	235	ASP
1	AA	254	GLU
1	AA	275	PRO
1	AA	307	ARG
1	AA	387	LEU
1	AA	389	GLN
1	AA	447	TYR
1	AA	496	ASN
1	AA	521	MET
1	AA	552	TYR
1	AA	560	CYS
1	AA	579	THR
1	AA	597	PRO
1	AA	608	VAL
1	AA	630	ARG

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Mol	Chain	Res	Type
1	AA	687	MET
1	AA	696	SER
1	AA	779	ASP
1	AA	823	THR
1	AB	103	SER
1	AB	254	GLU
1	AB	265	LEU
1	AB	313	ASN
1	AB	355	LEU
1	AB	359	THR
1	AB	388	SER
1	AB	416	ASN
1	AB	460	GLU
1	AB	482	GLN
1	AB	498	ARG
1	AB	503	VAL
1	AB	579	THR
1	AB	608	VAL
1	AB	634	TYR
1	AB	640	SER
1	AB	656	ARG
1	AB	673	PRO
1	AB	835	PHE
2	AC	7	LEU
2	AC	42	ASN
2	AC	130	ASP
2	AD	7	LEU
2	AD	65	LEU
2	AD	106	ARG
2	AD	123	LYS
2	AD	128	ASN
2	AE	7	LEU
2	AE	31	ILE
2	AF	7	LEU
2	AF	42	ASN
2	AF	130	ASP
2	AG	7	LEU
2	AG	106	ARG
2	AG	123	LYS
2	AG	128	ASN
2	AH	7	LEU
2	AH	31	ILE

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Mol	Chain	Res	Type
2	AI	7	LEU
2	AI	42	ASN
2	AI	130	ASP
2	AJ	7	LEU
2	AJ	65	LEU
2	AJ	106	ARG
2	AJ	123	LYS
2	AJ	128	ASN
2	AK	7	LEU
2	AK	31	ILE
2	AK	32	GLN
2	AL	7	LEU
2	AL	42	ASN
2	AL	130	ASP
2	AM	7	LEU
2	AM	65	LEU
2	AM	68	THR
2	AM	106	ARG
2	AM	123	LYS
2	AM	128	ASN
2	AN	7	LEU
2	AN	31	ILE
2	AO	7	LEU
2	AO	42	ASN
2	AO	90	ASP
2	AO	128	ASN
3	BA	200	THR
3	BA	209	THR
3	BA	253	GLY
3	BA	269	LEU
3	BF	200	THR
3	BF	209	THR
3	BF	253	GLY
3	BG	144	TYR
3	BG	200	THR
3	BG	209	THR
3	BH	130	ASP
3	BH	200	THR
3	BH	209	THR
3	BI	200	THR
3	BI	209	THR
3	BI	269	LEU

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Mol	Chain	Res	Type
3	BI	313	ARG
3	BJ	130	ASP
3	BJ	200	THR
3	BJ	209	THR
3	BJ	312	LYS
3	BK	200	THR
3	BK	209	THR
3	BK	253	GLY
3	BL	200	THR
3	BL	209	THR
3	BL	254	PRO
3	BL	266	SER
3	BM	70	SER
3	BM	200	THR
3	BM	209	THR
3	BN	62	SER
3	BN	200	THR
3	BN	209	THR
3	BN	254	PRO
3	BO	200	THR
3	BO	209	THR
3	BP	52	ASN
3	BP	70	SER
3	BP	200	THR
3	BP	209	THR
3	BQ	70	SER
3	BQ	200	THR
3	BQ	209	THR
4	BX	16	VAL
4	BX	36	ASN
4	BX	42	GLN
4	BX	513	ALA
4	BX	524	PRO
4	BX	570	ASP
4	BX	574	SER
4	BX	591	TRP
4	BX	592	THR
4	BX	603	SER
4	BX	605	VAL
4	BX	617	ARG
4	BX	645	ILE
4	BX	689	ARG

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Mol	Chain	Res	Type
4	BX	697	THR
4	BX	724	PHE
4	BX	744	LEU
4	BY	23	GLN
4	BY	513	ALA
4	BY	524	PRO
4	BY	536	SER
4	BY	591	TRP
4	BY	592	THR
4	BY	625	ALA
4	BY	642	LYS
4	BY	645	ILE
4	BY	689	ARG
4	BY	724	PHE
4	BY	725	LYS
4	BY	737	SER
4	BY	744	LEU
4	BY	762	ILE
4	BZ	524	PRO
4	BZ	574	SER
4	BZ	592	THR
4	BZ	642	LYS
4	BZ	653	PRO
4	BZ	689	ARG
4	BZ	707	LYS
4	BZ	724	PHE
4	BZ	725	LYS
4	BZ	744	LEU
4	BZ	762	ILE
1	AA	182	LEU
1	AA	246	HIS
1	AA	403	SER
1	AA	518	PHE
1	AA	549	LEU
1	AA	557	LEU
1	AA	581	VAL
1	AA	730	PHE
1	AA	819	PRO
1	AA	844	SER
1	AB	85	GLU
1	AB	193	SER
1	AB	212	PHE

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Mol	Chain	Res	Type
1	AB	338	GLU
1	AB	372	SER
1	AB	403	SER
1	AB	466	PHE
1	AB	545	ASP
1	AB	549	LEU
1	AB	552	TYR
1	AB	559	ALA
1	AB	597	PRO
1	AB	702	GLY
1	AB	734	ASN
1	AB	738	LEU
1	AB	805	ASP
1	AB	827	LYS
1	AB	877	MET
2	AC	13	ASP
2	AC	31	ILE
2	AC	32	GLN
2	AC	36	GLN
2	AC	90	ASP
2	AC	106	ARG
2	AC	148	THR
2	AD	13	ASP
2	AD	31	ILE
2	AD	32	GLN
2	AD	36	GLN
2	AD	67	GLY
2	AD	90	ASP
2	AD	125	LYS
2	AE	13	ASP
2	AE	32	GLN
2	AE	36	GLN
2	AE	62	ASP
2	AE	90	ASP
2	AE	141	LEU
2	AF	13	ASP
2	AF	31	ILE
2	AF	32	GLN
2	AF	36	GLN
2	AF	90	ASP
2	AF	106	ARG
2	AF	148	THR

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Mol	Chain	Res	Type
2	AG	13	ASP
2	AG	31	ILE
2	AG	32	GLN
2	AG	36	GLN
2	AG	90	ASP
2	AG	125	LYS
2	AH	13	ASP
2	AH	32	GLN
2	AH	36	GLN
2	AH	90	ASP
2	AH	141	LEU
2	AI	13	ASP
2	AI	31	ILE
2	AI	32	GLN
2	AI	36	GLN
2	AI	90	ASP
2	AI	106	ARG
2	AI	148	THR
2	AJ	13	ASP
2	AJ	31	ILE
2	AJ	32	GLN
2	AJ	36	GLN
2	AJ	68	THR
2	AJ	90	ASP
2	AJ	125	LYS
2	AK	13	ASP
2	AK	36	GLN
2	AK	62	ASP
2	AK	90	ASP
2	AK	141	LEU
2	AL	13	ASP
2	AL	31	ILE
2	AL	32	GLN
2	AL	36	GLN
2	AL	90	ASP
2	AL	106	ARG
2	AL	148	THR
2	AM	31	ILE
2	AM	32	GLN
2	AM	36	GLN
2	AM	72	ASN
2	AM	90	ASP

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Mol	Chain	Res	Type
2	AM	125	LYS
2	AN	13	ASP
2	AN	32	GLN
2	AN	36	GLN
2	AN	62	ASP
2	AN	90	ASP
2	AN	141	LEU
2	AO	31	ILE
2	AO	32	GLN
2	AO	36	GLN
2	AO	105	GLN
3	BA	146	ALA
3	BA	311	SER
3	BF	266	SER
3	BF	311	SER
3	BG	57	LEU
3	BG	70	SER
3	BH	70	SER
3	BH	253	GLY
3	BH	311	SER
3	BJ	324	TYR
3	BM	311	SER
3	BN	70	SER
3	BN	130	ASP
3	BN	311	SER
3	BN	316	SER
3	BQ	311	SER
4	BX	28	THR
4	BX	39	PRO
4	BX	542	LYS
4	BX	575	ILE
4	BX	581	ILE
4	BX	613	SER
4	BX	642	LYS
4	BX	657	PRO
4	BX	687	ASP
4	BX	707	LYS
4	BX	740	GLN
4	BY	16	VAL
4	BY	479	ASP
4	BY	542	LYS
4	BY	613	SER

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Mol	Chain	Res	Type
4	BY	617	ARG
4	BY	657	PRO
4	BY	662	GLU
4	BY	687	ASP
4	BY	707	LYS
4	BY	733	ASN
4	BY	740	GLN
4	BZ	16	VAL
4	BZ	444	VAL
4	BZ	539	ASP
4	BZ	605	VAL
4	BZ	613	SER
4	BZ	623	GLU
4	BZ	630	GLY
4	BZ	687	ASP
4	BZ	740	GLN
4	BZ	759	ASP
1	AA	206	ALA
1	AA	242	PRO
1	AA	263	GLU
1	AA	264	PRO
1	AA	415	PRO
1	AA	606	VAL
1	AA	717	MET
1	AB	99	GLU
1	AB	101	LYS
1	AB	123	PHE
1	AB	128	PRO
1	AB	141	GLU
1	AB	437	TYR
1	AB	483	VAL
1	AB	521	MET
1	AB	553	ASN
1	AB	557	LEU
1	AB	581	VAL
1	AB	677	ARG
1	AB	801	LYS
2	AC	126	ARG
2	AC	129	PHE
2	AE	130	ASP
2	AF	38	ILE
2	AF	126	ARG

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Mol	Chain	Res	Type
2	AF	129	PHE
2	AF	141	LEU
2	AH	130	ASP
2	AI	126	ARG
2	AI	129	PHE
2	AI	141	LEU
2	AK	130	ASP
2	AL	38	ILE
2	AL	126	ARG
2	AL	129	PHE
2	AM	13	ASP
2	AM	67	GLY
2	AO	13	ASP
2	AO	125	LYS
3	BG	55	ILE
3	BI	322	PHE
3	BJ	254	PRO
3	BL	129	VAL
3	BM	254	PRO
3	BN	258	VAL
3	BO	55	ILE
3	BP	130	ASP
4	BX	6	TYR
4	BX	482	THR
4	BX	553	LYS
4	BX	662	GLU
4	BX	699	ASP
4	BX	741	ALA
4	BX	749	PRO
4	BX	760	ASN
4	BY	6	TYR
4	BY	577	ARG
4	BY	620	ARG
4	BY	702	PRO
4	BY	736	ILE
4	BY	759	ASP
4	BZ	6	TYR
4	BZ	542	LYS
4	BZ	645	ILE
4	BZ	657	PRO
4	BZ	662	GLU
4	BZ	734	TYR

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Mol	Chain	Res	Type
4	BZ	749	PRO
1	AA	152	ARG
1	AA	333	VAL
1	AA	372	SER
1	AA	438	PRO
1	AA	733	ILE
1	AA	773	SER
1	AA	784	ALA
1	AB	86	VAL
1	AB	206	ALA
1	AB	606	VAL
1	AB	678	ARG
1	AB	791	LYS
2	AC	38	ILE
2	AC	141	LEU
2	AD	38	ILE
2	AD	141	LEU
2	AE	38	ILE
2	AE	126	ARG
2	AE	129	PHE
2	AG	38	ILE
2	AH	38	ILE
2	AH	126	ARG
2	AH	129	PHE
2	AI	38	ILE
2	AJ	38	ILE
2	AK	38	ILE
2	AK	126	ARG
2	AK	129	PHE
2	AL	141	LEU
2	AM	38	ILE
2	AN	38	ILE
2	AN	126	ARG
2	AN	129	PHE
2	AN	130	ASP
2	AO	38	ILE
3	BH	149	GLN
3	BI	271	ILE
3	BI	320	ALA
3	BK	130	ASP
4	BX	17	ASP
4	BX	601	VAL

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Mol	Chain	Res	Type
4	BX	630	GLY
4	BY	17	ASP
4	BY	533	GLY
4	BY	741	ALA
4	BY	749	PRO
4	BZ	617	ARG
4	BZ	736	ILE
4	BZ	741	ALA
1	AB	177	MET
2	AD	3	VAL
2	AE	3	VAL
2	AF	3	VAL
2	AG	3	VAL
2	AH	3	VAL
2	AH	67	GLY
2	AI	3	VAL
2	AJ	3	VAL
2	AK	3	VAL
2	AL	3	VAL
2	AM	3	VAL
2	AN	3	VAL
2	AO	3	VAL
4	BX	659	ILE
4	BX	762	ILE
4	BY	38	GLY
4	BY	464	VAL
4	BY	601	VAL
4	BY	630	GLY
4	BZ	659	ILE
1	AA	502	VAL
1	AB	125	ILE
1	AB	207	ILE
2	AC	3	VAL
2	AJ	67	GLY
3	BJ	58	PRO
3	BM	130	ASP
4	BY	659	ILE
4	BZ	538	ILE
1	AA	207	ILE
1	AA	622	VAL
3	BO	254	PRO
1	AA	383	ILE

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Mol	Chain	Res	Type
1	AA	414	VAL
1	AB	438	PRO
1	AB	544	VAL
1	AB	370	ILE
3	BA	279	PRO
3	BF	279	PRO
3	BG	279	PRO
3	BH	254	PRO
3	BH	279	PRO
3	BI	279	PRO
3	BJ	279	PRO
3	BK	279	PRO
3	BL	279	PRO
3	BM	279	PRO
3	BN	279	PRO
3	BO	279	PRO
3	BP	279	PRO
3	BQ	279	PRO
4	BX	685	GLY

5.3.2 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 EM 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	AA	717/736 (97%)	636 (89%)	81 (11%)	4 21
1	AB	736/736 (100%)	644 (88%)	92 (12%)	3 19
2	AC	350/350 (100%)	329 (94%)	21 (6%)	16 41
2	AD	350/350 (100%)	329 (94%)	21 (6%)	16 41
2	AE	350/350 (100%)	329 (94%)	21 (6%)	16 41
2	AF	350/350 (100%)	329 (94%)	21 (6%)	16 41
2	AG	350/350 (100%)	328 (94%)	22 (6%)	15 40
2	AH	350/350 (100%)	330 (94%)	20 (6%)	17 43
2	AI	350/350 (100%)	329 (94%)	21 (6%)	16 41

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	AJ	350/350 (100%)	329 (94%)	21 (6%)	16 41
2	AK	350/350 (100%)	329 (94%)	21 (6%)	16 41
2	AL	350/350 (100%)	328 (94%)	22 (6%)	15 40
2	AM	350/350 (100%)	328 (94%)	22 (6%)	15 40
2	AN	350/350 (100%)	329 (94%)	21 (6%)	16 41
2	AO	350/350 (100%)	331 (95%)	19 (5%)	18 43
3	BA	229/247 (93%)	206 (90%)	23 (10%)	6 24
3	BF	236/247 (96%)	212 (90%)	24 (10%)	6 24
3	BG	244/247 (99%)	214 (88%)	30 (12%)	4 19
3	BH	229/247 (93%)	204 (89%)	25 (11%)	5 22
3	BI	244/247 (99%)	215 (88%)	29 (12%)	4 20
3	BJ	245/247 (99%)	218 (89%)	27 (11%)	5 22
3	BK	240/247 (97%)	214 (89%)	26 (11%)	5 22
3	BL	243/247 (98%)	215 (88%)	28 (12%)	4 21
3	BM	229/247 (93%)	205 (90%)	24 (10%)	5 23
3	BN	246/247 (100%)	221 (90%)	25 (10%)	6 24
3	BO	245/247 (99%)	213 (87%)	32 (13%)	3 18
3	BP	244/247 (99%)	219 (90%)	25 (10%)	6 24
3	BQ	229/247 (93%)	206 (90%)	23 (10%)	6 24
4	BX	652/688 (95%)	608 (93%)	44 (7%)	13 38
4	BY	654/688 (95%)	605 (92%)	49 (8%)	11 35
4	BZ	456/688 (66%)	416 (91%)	40 (9%)	8 30
All	All	10868/11297 (96%)	9948 (92%)	920 (8%)	11 31

All (920) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	108	LEU
1	AA	119	GLN
1	AA	121	LYS
1	AA	123	PHE
1	AA	125	ILE
1	AA	126	PHE
1	AA	193	SER

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Mol	Chain	Res	Type
1	AA	195	ASP
1	AA	215	GLU
1	AA	216	GLU
1	AA	227	GLU
1	AA	229	ARG
1	AA	230	GLN
1	AA	239	VAL
1	AA	247	PRO
1	AA	250	HIS
1	AA	253	ASN
1	AA	271	PHE
1	AA	286	LEU
1	AA	303	LEU
1	AA	311	HIS
1	AA	313	ASN
1	AA	318	TRP
1	AA	319	ASP
1	AA	347	GLN
1	AA	348	LYS
1	AA	366	PHE
1	AA	382	LEU
1	AA	388	SER
1	AA	389	GLN
1	AA	392	MET
1	AA	401	TYR
1	AA	403	SER
1	AA	404	LEU
1	AA	409	TRP
1	AA	423	SER
1	AA	428	GLN
1	AA	452	PRO
1	AA	456	PHE
1	AA	471	TRP
1	AA	505	GLN
1	AA	514	SER
1	AA	515	ARG
1	AA	520	THR
1	AA	521	MET
1	AA	534	LEU
1	AA	537	SER
1	AA	540	LEU
1	AA	560	CYS

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Mol	Chain	Res	Type
1	AA	564	ASN
1	AA	565	MET
1	AA	573	THR
1	AA	587	LEU
1	AA	601	PHE
1	AA	606	VAL
1	AA	611	HIS
1	AA	616	GLU
1	AA	634	TYR
1	AA	638	MET
1	AA	649	LEU
1	AA	650	GLN
1	AA	656	ARG
1	AA	657	VAL
1	AA	680	ASP
1	AA	699	ILE
1	AA	701	GLN
1	AA	707	TYR
1	AA	720	TYR
1	AA	730	PHE
1	AA	743	ASP
1	AA	765	PHE
1	AA	793	ASP
1	AA	798	ILE
1	AA	801	LYS
1	AA	816	ASP
1	AA	839	MET
1	AA	843	THR
1	AA	848	PHE
1	AA	849	THR
1	AA	854	LEU
1	AA	864	GLU
1	AB	81	GLU
1	AB	88	TYR
1	AB	126	PHE
1	AB	134	TYR
1	AB	135	ARG
1	AB	137	ASN
1	AB	153	ASP
1	AB	157	ASP
1	AB	180	TYR
1	AB	190	ASN

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Mol	Chain	Res	Type
1	AB	201	ASP
1	AB	204	THR
1	AB	235	ASP
1	AB	236	ARG
1	AB	254	GLU
1	AB	271	PHE
1	AB	286	LEU
1	AB	298	TYR
1	AB	310	LEU
1	AB	311	HIS
1	AB	314	PHE
1	AB	316	SER
1	AB	318	TRP
1	AB	332	VAL
1	AB	347	GLN
1	AB	348	LYS
1	AB	352	ASP
1	AB	358	LEU
1	AB	382	LEU
1	AB	392	MET
1	AB	401	TYR
1	AB	403	SER
1	AB	404	LEU
1	AB	409	TRP
1	AB	419	PHE
1	AB	421	ARG
1	AB	433	ASN
1	AB	443	GLN
1	AB	457	GLN
1	AB	471	TRP
1	AB	473	HIS
1	AB	481	ARG
1	AB	505	GLN
1	AB	508	GLU
1	AB	514	SER
1	AB	516	GLN
1	AB	518	PHE
1	AB	521	MET
1	AB	524	ASP
1	AB	525	TYR
1	AB	527	ARG
1	AB	534	LEU

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Mol	Chain	Res	Type
1	AB	537	SER
1	AB	540	LEU
1	AB	560	CYS
1	AB	590	ASN
1	AB	601	PHE
1	AB	606	VAL
1	AB	611	HIS
1	AB	616	GLU
1	AB	630	ARG
1	AB	633	LEU
1	AB	634	TYR
1	AB	638	MET
1	AB	650	GLN
1	AB	652	PHE
1	AB	653	ASP
1	AB	660	ASP
1	AB	680	ASP
1	AB	697	ASP
1	AB	707	TYR
1	AB	720	TYR
1	AB	730	PHE
1	AB	731	GLN
1	AB	734	ASN
1	AB	737	GLU
1	AB	739	MET
1	AB	744	TYR
1	AB	774	LEU
1	AB	783	PHE
1	AB	790	ARG
1	AB	791	LYS
1	AB	800	TYR
1	AB	808	ASP
1	AB	811	LEU
1	AB	812	VAL
1	AB	839	MET
1	AB	844	SER
1	AB	854	LEU
1	AB	871	PHE
1	AB	872	ASP
1	AB	876	ILE
2	AC	13	ASP
2	AC	26	ASN

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Mol	Chain	Res	Type
2	AC	59	TRP
2	AC	103	GLU
2	AC	106	ARG
2	AC	129	PHE
2	AC	142	GLN
2	AC	143	ASN
2	AC	150	PHE
2	AC	152	PHE
2	AC	170	GLN
2	AC	214	LEU
2	AC	225	LEU
2	AC	255	ARG
2	AC	274	GLN
2	AC	284	ASN
2	AC	370	LEU
2	AC	374	TYR
2	AC	378	ARG
2	AC	382	LEU
2	AC	385	VAL
2	AD	1	MET
2	AD	13	ASP
2	AD	45	GLU
2	AD	70	LEU
2	AD	106	ARG
2	AD	109	ILE
2	AD	129	PHE
2	AD	142	GLN
2	AD	143	ASN
2	AD	150	PHE
2	AD	152	PHE
2	AD	170	GLN
2	AD	214	LEU
2	AD	225	LEU
2	AD	274	GLN
2	AD	284	ASN
2	AD	370	LEU
2	AD	374	TYR
2	AD	378	ARG
2	AD	382	LEU
2	AD	385	VAL
2	AE	1	MET
2	AE	13	ASP

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Mol	Chain	Res	Type
2	AE	59	TRP
2	AE	69	THR
2	AE	103	GLU
2	AE	107	ASN
2	AE	129	PHE
2	AE	142	GLN
2	AE	150	PHE
2	AE	152	PHE
2	AE	170	GLN
2	AE	214	LEU
2	AE	225	LEU
2	AE	255	ARG
2	AE	274	GLN
2	AE	284	ASN
2	AE	370	LEU
2	AE	374	TYR
2	AE	378	ARG
2	AE	382	LEU
2	AE	385	VAL
2	AF	13	ASP
2	AF	26	ASN
2	AF	59	TRP
2	AF	103	GLU
2	AF	106	ARG
2	AF	129	PHE
2	AF	142	GLN
2	AF	143	ASN
2	AF	150	PHE
2	AF	152	PHE
2	AF	170	GLN
2	AF	214	LEU
2	AF	225	LEU
2	AF	255	ARG
2	AF	274	GLN
2	AF	284	ASN
2	AF	370	LEU
2	AF	374	TYR
2	AF	378	ARG
2	AF	382	LEU
2	AF	385	VAL
2	AG	1	MET
2	AG	13	ASP

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Mol	Chain	Res	Type
2	AG	42	ASN
2	AG	45	GLU
2	AG	106	ARG
2	AG	109	ILE
2	AG	129	PHE
2	AG	142	GLN
2	AG	143	ASN
2	AG	150	PHE
2	AG	152	PHE
2	AG	170	GLN
2	AG	214	LEU
2	AG	225	LEU
2	AG	255	ARG
2	AG	274	GLN
2	AG	284	ASN
2	AG	370	LEU
2	AG	374	TYR
2	AG	378	ARG
2	AG	382	LEU
2	AG	385	VAL
2	AH	1	MET
2	AH	13	ASP
2	AH	59	TRP
2	AH	103	GLU
2	AH	107	ASN
2	AH	129	PHE
2	AH	142	GLN
2	AH	150	PHE
2	AH	152	PHE
2	AH	170	GLN
2	AH	214	LEU
2	AH	225	LEU
2	AH	255	ARG
2	AH	274	GLN
2	AH	284	ASN
2	AH	370	LEU
2	AH	374	TYR
2	AH	378	ARG
2	AH	382	LEU
2	AH	385	VAL
2	AI	13	ASP
2	AI	26	ASN

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Mol	Chain	Res	Type
2	AI	59	TRP
2	AI	103	GLU
2	AI	106	ARG
2	AI	129	PHE
2	AI	142	GLN
2	AI	143	ASN
2	AI	150	PHE
2	AI	152	PHE
2	AI	170	GLN
2	AI	214	LEU
2	AI	225	LEU
2	AI	255	ARG
2	AI	274	GLN
2	AI	284	ASN
2	AI	370	LEU
2	AI	374	TYR
2	AI	378	ARG
2	AI	382	LEU
2	AI	385	VAL
2	AJ	1	MET
2	AJ	13	ASP
2	AJ	45	GLU
2	AJ	72	ASN
2	AJ	109	ILE
2	AJ	129	PHE
2	AJ	142	GLN
2	AJ	143	ASN
2	AJ	150	PHE
2	AJ	152	PHE
2	AJ	170	GLN
2	AJ	214	LEU
2	AJ	225	LEU
2	AJ	255	ARG
2	AJ	274	GLN
2	AJ	284	ASN
2	AJ	370	LEU
2	AJ	374	TYR
2	AJ	378	ARG
2	AJ	382	LEU
2	AJ	385	VAL
2	AK	1	MET
2	AK	13	ASP

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Mol	Chain	Res	Type
2	AK	59	TRP
2	AK	69	THR
2	AK	103	GLU
2	AK	107	ASN
2	AK	129	PHE
2	AK	142	GLN
2	AK	150	PHE
2	AK	152	PHE
2	AK	170	GLN
2	AK	214	LEU
2	AK	225	LEU
2	AK	255	ARG
2	AK	274	GLN
2	AK	284	ASN
2	AK	370	LEU
2	AK	374	TYR
2	AK	378	ARG
2	AK	382	LEU
2	AK	385	VAL
2	AL	13	ASP
2	AL	26	ASN
2	AL	59	TRP
2	AL	103	GLU
2	AL	106	ARG
2	AL	126	ARG
2	AL	129	PHE
2	AL	142	GLN
2	AL	143	ASN
2	AL	150	PHE
2	AL	152	PHE
2	AL	170	GLN
2	AL	214	LEU
2	AL	225	LEU
2	AL	255	ARG
2	AL	274	GLN
2	AL	284	ASN
2	AL	370	LEU
2	AL	374	TYR
2	AL	378	ARG
2	AL	382	LEU
2	AL	385	VAL
2	AM	1	MET

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Mol	Chain	Res	Type
2	AM	13	ASP
2	AM	45	GLU
2	AM	73	LEU
2	AM	106	ARG
2	AM	109	ILE
2	AM	129	PHE
2	AM	142	GLN
2	AM	143	ASN
2	AM	150	PHE
2	AM	152	PHE
2	AM	170	GLN
2	AM	214	LEU
2	AM	225	LEU
2	AM	255	ARG
2	AM	274	GLN
2	AM	284	ASN
2	AM	370	LEU
2	AM	374	TYR
2	AM	378	ARG
2	AM	382	LEU
2	AM	385	VAL
2	AN	1	MET
2	AN	13	ASP
2	AN	59	TRP
2	AN	69	THR
2	AN	103	GLU
2	AN	107	ASN
2	AN	129	PHE
2	AN	142	GLN
2	AN	150	PHE
2	AN	152	PHE
2	AN	170	GLN
2	AN	214	LEU
2	AN	225	LEU
2	AN	255	ARG
2	AN	274	GLN
2	AN	284	ASN
2	AN	370	LEU
2	AN	374	TYR
2	AN	378	ARG
2	AN	382	LEU
2	AN	385	VAL

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Mol	Chain	Res	Type
2	AO	13	ASP
2	AO	103	GLU
2	AO	106	ARG
2	AO	109	ILE
2	AO	129	PHE
2	AO	142	GLN
2	AO	150	PHE
2	AO	152	PHE
2	AO	170	GLN
2	AO	214	LEU
2	AO	225	LEU
2	AO	255	ARG
2	AO	274	GLN
2	AO	284	ASN
2	AO	370	LEU
2	AO	374	TYR
2	AO	378	ARG
2	AO	382	LEU
2	AO	385	VAL
3	BA	65	THR
3	BA	67	TYR
3	BA	106	PHE
3	BA	109	LYS
3	BA	117	TYR
3	BA	139	VAL
3	BA	179	ASP
3	BA	180	GLU
3	BA	186	SER
3	BA	187	MET
3	BA	191	CYS
3	BA	223	LYS
3	BA	227	THR
3	BA	229	VAL
3	BA	243	THR
3	BA	251	LYS
3	BA	255	ARG
3	BA	262	GLN
3	BA	263	VAL
3	BA	266	SER
3	BA	274	ASP
3	BA	277	THR
3	BA	283	ARG

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Mol	Chain	Res	Type
3	BF	69	ASN
3	BF	106	PHE
3	BF	139	VAL
3	BF	143	LYS
3	BF	144	TYR
3	BF	173	TYR
3	BF	176	GLN
3	BF	179	ASP
3	BF	180	GLU
3	BF	186	SER
3	BF	187	MET
3	BF	191	CYS
3	BF	223	LYS
3	BF	227	THR
3	BF	229	VAL
3	BF	243	THR
3	BF	251	LYS
3	BF	255	ARG
3	BF	263	VAL
3	BF	270	ASP
3	BF	274	ASP
3	BF	277	THR
3	BF	283	ARG
3	BF	290	LYS
3	BG	52	ASN
3	BG	71	THR
3	BG	88	GLU
3	BG	106	PHE
3	BG	109	LYS
3	BG	139	VAL
3	BG	144	TYR
3	BG	174	TYR
3	BG	176	GLN
3	BG	179	ASP
3	BG	180	GLU
3	BG	186	SER
3	BG	187	MET
3	BG	191	CYS
3	BG	223	LYS
3	BG	227	THR
3	BG	229	VAL
3	BG	243	THR

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Mol	Chain	Res	Type
3	BG	247	ARG
3	BG	251	LYS
3	BG	255	ARG
3	BG	263	VAL
3	BG	271	ILE
3	BG	274	ASP
3	BG	277	THR
3	BG	283	ARG
3	BG	288	ASN
3	BG	311	SER
3	BG	315	ARG
3	BG	318	ASN
3	BH	88	GLU
3	BH	106	PHE
3	BH	109	LYS
3	BH	139	VAL
3	BH	143	LYS
3	BH	144	TYR
3	BH	174	TYR
3	BH	176	GLN
3	BH	179	ASP
3	BH	180	GLU
3	BH	186	SER
3	BH	187	MET
3	BH	191	CYS
3	BH	223	LYS
3	BH	227	THR
3	BH	229	VAL
3	BH	243	THR
3	BH	251	LYS
3	BH	255	ARG
3	BH	263	VAL
3	BH	266	SER
3	BH	267	ASP
3	BH	274	ASP
3	BH	277	THR
3	BH	283	ARG
3	BI	52	ASN
3	BI	106	PHE
3	BI	109	LYS
3	BI	117	TYR
3	BI	130	ASP

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Mol	Chain	Res	Type
3	BI	139	VAL
3	BI	143	LYS
3	BI	144	TYR
3	BI	176	GLN
3	BI	179	ASP
3	BI	180	GLU
3	BI	186	SER
3	BI	187	MET
3	BI	191	CYS
3	BI	223	LYS
3	BI	227	THR
3	BI	229	VAL
3	BI	243	THR
3	BI	248	ASN
3	BI	251	LYS
3	BI	255	ARG
3	BI	263	VAL
3	BI	274	ASP
3	BI	277	THR
3	BI	283	ARG
3	BI	290	LYS
3	BI	311	SER
3	BI	315	ARG
3	BI	319	SER
3	BJ	53	TYR
3	BJ	88	GLU
3	BJ	106	PHE
3	BJ	109	LYS
3	BJ	139	VAL
3	BJ	143	LYS
3	BJ	144	TYR
3	BJ	173	TYR
3	BJ	175	TYR
3	BJ	176	GLN
3	BJ	179	ASP
3	BJ	180	GLU
3	BJ	186	SER
3	BJ	187	MET
3	BJ	191	CYS
3	BJ	223	LYS
3	BJ	227	THR
3	BJ	229	VAL

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Mol	Chain	Res	Type
3	BJ	243	THR
3	BJ	251	LYS
3	BJ	263	VAL
3	BJ	266	SER
3	BJ	271	ILE
3	BJ	274	ASP
3	BJ	277	THR
3	BJ	283	ARG
3	BJ	288	ASN
3	BK	69	ASN
3	BK	88	GLU
3	BK	106	PHE
3	BK	109	LYS
3	BK	139	VAL
3	BK	143	LYS
3	BK	144	TYR
3	BK	175	TYR
3	BK	176	GLN
3	BK	179	ASP
3	BK	180	GLU
3	BK	186	SER
3	BK	187	MET
3	BK	191	CYS
3	BK	223	LYS
3	BK	227	THR
3	BK	229	VAL
3	BK	243	THR
3	BK	251	LYS
3	BK	255	ARG
3	BK	263	VAL
3	BK	274	ASP
3	BK	277	THR
3	BK	283	ARG
3	BK	290	LYS
3	BK	315	ARG
3	BL	71	THR
3	BL	88	GLU
3	BL	106	PHE
3	BL	109	LYS
3	BL	130	ASP
3	BL	132	GLN
3	BL	139	VAL

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Mol	Chain	Res	Type
3	BL	143	LYS
3	BL	144	TYR
3	BL	176	GLN
3	BL	179	ASP
3	BL	180	GLU
3	BL	186	SER
3	BL	191	CYS
3	BL	223	LYS
3	BL	227	THR
3	BL	229	VAL
3	BL	243	THR
3	BL	247	ARG
3	BL	251	LYS
3	BL	255	ARG
3	BL	263	VAL
3	BL	266	SER
3	BL	274	ASP
3	BL	277	THR
3	BL	283	ARG
3	BL	288	ASN
3	BL	290	LYS
3	BM	88	GLU
3	BM	106	PHE
3	BM	109	LYS
3	BM	139	VAL
3	BM	143	LYS
3	BM	175	TYR
3	BM	176	GLN
3	BM	179	ASP
3	BM	180	GLU
3	BM	186	SER
3	BM	187	MET
3	BM	191	CYS
3	BM	223	LYS
3	BM	227	THR
3	BM	229	VAL
3	BM	243	THR
3	BM	251	LYS
3	BM	255	ARG
3	BM	263	VAL
3	BM	274	ASP
3	BM	277	THR

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Mol	Chain	Res	Type
3	BM	283	ARG
3	BM	286	ARG
3	BM	288	ASN
3	BN	88	GLU
3	BN	106	PHE
3	BN	109	LYS
3	BN	139	VAL
3	BN	144	TYR
3	BN	175	TYR
3	BN	179	ASP
3	BN	180	GLU
3	BN	186	SER
3	BN	191	CYS
3	BN	223	LYS
3	BN	227	THR
3	BN	229	VAL
3	BN	243	THR
3	BN	251	LYS
3	BN	263	VAL
3	BN	268	VAL
3	BN	274	ASP
3	BN	277	THR
3	BN	283	ARG
3	BN	290	LYS
3	BN	312	LYS
3	BN	323	TYR
3	BN	324	TYR
3	BN	326	ILE
3	BO	55	ILE
3	BO	56	ASN
3	BO	106	PHE
3	BO	109	LYS
3	BO	132	GLN
3	BO	139	VAL
3	BO	142	MET
3	BO	143	LYS
3	BO	144	TYR
3	BO	153	SER
3	BO	175	TYR
3	BO	176	GLN
3	BO	179	ASP
3	BO	180	GLU

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Mol	Chain	Res	Type
3	BO	186	SER
3	BO	187	MET
3	BO	191	CYS
3	BO	227	THR
3	BO	229	VAL
3	BO	243	THR
3	BO	251	LYS
3	BO	255	ARG
3	BO	263	VAL
3	BO	266	SER
3	BO	267	ASP
3	BO	274	ASP
3	BO	277	THR
3	BO	283	ARG
3	BO	288	ASN
3	BO	313	ARG
3	BO	323	TYR
3	BO	324	TYR
3	BP	53	TYR
3	BP	106	PHE
3	BP	139	VAL
3	BP	144	TYR
3	BP	175	TYR
3	BP	176	GLN
3	BP	179	ASP
3	BP	180	GLU
3	BP	186	SER
3	BP	187	MET
3	BP	191	CYS
3	BP	223	LYS
3	BP	227	THR
3	BP	229	VAL
3	BP	243	THR
3	BP	251	LYS
3	BP	263	VAL
3	BP	266	SER
3	BP	268	VAL
3	BP	277	THR
3	BP	283	ARG
3	BP	288	ASN
3	BP	311	SER
3	BP	313	ARG

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Mol	Chain	Res	Type
3	BP	315	ARG
3	BQ	88	GLU
3	BQ	106	PHE
3	BQ	109	LYS
3	BQ	139	VAL
3	BQ	143	LYS
3	BQ	144	TYR
3	BQ	179	ASP
3	BQ	180	GLU
3	BQ	186	SER
3	BQ	187	MET
3	BQ	191	CYS
3	BQ	223	LYS
3	BQ	227	THR
3	BQ	229	VAL
3	BQ	243	THR
3	BQ	251	LYS
3	BQ	255	ARG
3	BQ	263	VAL
3	BQ	266	SER
3	BQ	268	VAL
3	BQ	274	ASP
3	BQ	277	THR
3	BQ	283	ARG
4	BX	5	ILE
4	BX	27	SER
4	BX	45	TYR
4	BX	66	ASP
4	BX	178	ASN
4	BX	182	PRO
4	BX	198	ASN
4	BX	264	GLU
4	BX	287	LEU
4	BX	323	MET
4	BX	369	ARG
4	BX	479	ASP
4	BX	500	GLU
4	BX	503	GLU
4	BX	510	GLN
4	BX	527	MET
4	BX	539	ASP
4	BX	544	MET

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Mol	Chain	Res	Type
4	BX	552	PHE
4	BX	559	ASN
4	BX	600	ASP
4	BX	605	VAL
4	BX	618	ARG
4	BX	629	GLU
4	BX	634	ASP
4	BX	635	ASP
4	BX	644	LYS
4	BX	647	ARG
4	BX	648	SER
4	BX	661	THR
4	BX	674	ARG
4	BX	679	ASP
4	BX	687	ASP
4	BX	691	PHE
4	BX	693	TYR
4	BX	695	VAL
4	BX	699	ASP
4	BX	701	ILE
4	BX	702	PRO
4	BX	714	ASP
4	BX	724	PHE
4	BX	748	ASP
4	BX	759	ASP
4	BX	774	CYS
4	BY	5	ILE
4	BY	45	TYR
4	BY	50	TRP
4	BY	178	ASN
4	BY	182	PRO
4	BY	198	ASN
4	BY	253	ASP
4	BY	256	VAL
4	BY	258	LYS
4	BY	287	LEU
4	BY	323	MET
4	BY	355	TYR
4	BY	357	ASP
4	BY	363	ARG
4	BY	418	PHE
4	BY	478	ASP

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Mol	Chain	Res	Type
4	BY	479	ASP
4	BY	480	TYR
4	BY	493	ASP
4	BY	496	ARG
4	BY	503	GLU
4	BY	510	GLN
4	BY	527	MET
4	BY	552	PHE
4	BY	559	ASN
4	BY	570	ASP
4	BY	582	ARG
4	BY	605	VAL
4	BY	618	ARG
4	BY	629	GLU
4	BY	634	ASP
4	BY	635	ASP
4	BY	644	LYS
4	BY	648	SER
4	BY	661	THR
4	BY	674	ARG
4	BY	679	ASP
4	BY	687	ASP
4	BY	691	PHE
4	BY	693	TYR
4	BY	694	ARG
4	BY	701	ILE
4	BY	702	PRO
4	BY	704	ASP
4	BY	714	ASP
4	BY	724	PHE
4	BY	748	ASP
4	BY	759	ASP
4	BY	774	CYS
4	BZ	5	ILE
4	BZ	27	SER
4	BZ	264	GLU
4	BZ	269	ARG
4	BZ	310	GLU
4	BZ	321	ASN
4	BZ	323	MET
4	BZ	424	LEU
4	BZ	425	ARG

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Mol	Chain	Res	Type
4	BZ	427	ARG
4	BZ	441	ARG
4	BZ	443	ARG
4	BZ	510	GLN
4	BZ	527	MET
4	BZ	531	PHE
4	BZ	552	PHE
4	BZ	559	ASN
4	BZ	600	ASP
4	BZ	605	VAL
4	BZ	619	LEU
4	BZ	622	LYS
4	BZ	623	GLU
4	BZ	629	GLU
4	BZ	634	ASP
4	BZ	635	ASP
4	BZ	644	LYS
4	BZ	654	ASN
4	BZ	661	THR
4	BZ	674	ARG
4	BZ	679	ASP
4	BZ	687	ASP
4	BZ	691	PHE
4	BZ	699	ASP
4	BZ	701	ILE
4	BZ	714	ASP
4	BZ	724	PHE
4	BZ	733	ASN
4	BZ	748	ASP
4	BZ	759	ASP
4	BZ	774	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (343) such sidechains are listed below:

Mol	Chain	Res	Type
1	AA	137	ASN
1	AA	168	ASN
1	AA	246	HIS
1	AA	253	ASN
1	AA	272	ASN
1	AA	347	GLN
1	AA	453	GLN

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Mol	Chain	Res	Type
1	AA	473	HIS
1	AA	476	ASN
1	AA	478	ASN
1	AA	490	ASN
1	AA	496	ASN
1	AA	505	GLN
1	AA	512	GLN
1	AA	553	ASN
1	AA	605	ASN
1	AA	629	ASN
1	AA	650	GLN
1	AA	661	GLN
1	AA	683	ASN
1	AA	722	ASN
1	AA	726	ASN
1	AA	732	GLN
1	AA	803	ASN
1	AA	840	HIS
1	AA	873	ASN
1	AB	119	GLN
1	AB	168	ASN
1	AB	190	ASN
1	AB	237	ASN
1	AB	240	ASN
1	AB	246	HIS
1	AB	259	HIS
1	AB	283	ASN
1	AB	302	ASN
1	AB	305	GLN
1	AB	311	HIS
1	AB	347	GLN
1	AB	371	ASN
1	AB	389	GLN
1	AB	433	ASN
1	AB	443	GLN
1	AB	446	HIS
1	AB	449	ASN
1	AB	470	ASN
1	AB	473	HIS
1	AB	477	ASN
1	AB	501	HIS
1	AB	504	ASN

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Mol	Chain	Res	Type
1	AB	512	GLN
1	AB	516	GLN
1	AB	553	ASN
1	AB	564	ASN
1	AB	590	ASN
1	AB	605	ASN
1	AB	611	HIS
1	AB	615	ASN
1	AB	635	GLN
1	AB	650	GLN
1	AB	683	ASN
1	AB	688	ASN
1	AB	711	GLN
1	AB	731	GLN
1	AB	807	ASN
1	AB	814	ASN
1	AB	840	HIS
1	AB	878	ASN
2	AC	26	ASN
2	AC	94	ASN
2	AC	131	ASN
2	AC	140	ASN
2	AC	142	GLN
2	AC	167	ASN
2	AC	274	GLN
2	AC	284	ASN
2	AC	345	ASN
2	AD	94	ASN
2	AD	131	ASN
2	AD	140	ASN
2	AD	142	GLN
2	AD	146	GLN
2	AD	167	ASN
2	AD	274	GLN
2	AD	284	ASN
2	AD	345	ASN
2	AE	26	ASN
2	AE	53	ASN
2	AE	94	ASN
2	AE	107	ASN
2	AE	131	ASN
2	AE	140	ASN

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Mol	Chain	Res	Type
2	AE	142	GLN
2	AE	167	ASN
2	AE	274	GLN
2	AE	284	ASN
2	AE	345	ASN
2	AF	26	ASN
2	AF	94	ASN
2	AF	131	ASN
2	AF	140	ASN
2	AF	142	GLN
2	AF	167	ASN
2	AF	274	GLN
2	AF	284	ASN
2	AF	310	ASN
2	AF	345	ASN
2	AG	72	ASN
2	AG	94	ASN
2	AG	131	ASN
2	AG	140	ASN
2	AG	142	GLN
2	AG	146	GLN
2	AG	167	ASN
2	AG	274	GLN
2	AG	284	ASN
2	AG	299	ASN
2	AG	310	ASN
2	AG	345	ASN
2	AH	26	ASN
2	AH	35	ASN
2	AH	53	ASN
2	AH	94	ASN
2	AH	107	ASN
2	AH	131	ASN
2	AH	140	ASN
2	AH	142	GLN
2	AH	167	ASN
2	AH	274	GLN
2	AH	284	ASN
2	AH	310	ASN
2	AH	345	ASN
2	AI	26	ASN
2	AI	36	GLN

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Mol	Chain	Res	Type
2	AI	53	ASN
2	AI	94	ASN
2	AI	131	ASN
2	AI	140	ASN
2	AI	142	GLN
2	AI	167	ASN
2	AI	206	GLN
2	AI	239	ASN
2	AI	274	GLN
2	AI	284	ASN
2	AI	345	ASN
2	AJ	94	ASN
2	AJ	131	ASN
2	AJ	140	ASN
2	AJ	142	GLN
2	AJ	146	GLN
2	AJ	167	ASN
2	AJ	239	ASN
2	AJ	274	GLN
2	AJ	284	ASN
2	AJ	345	ASN
2	AK	26	ASN
2	AK	53	ASN
2	AK	94	ASN
2	AK	131	ASN
2	AK	140	ASN
2	AK	167	ASN
2	AK	239	ASN
2	AK	274	GLN
2	AK	284	ASN
2	AK	345	ASN
2	AL	26	ASN
2	AL	94	ASN
2	AL	131	ASN
2	AL	140	ASN
2	AL	142	GLN
2	AL	167	ASN
2	AL	274	GLN
2	AL	284	ASN
2	AL	310	ASN
2	AL	345	ASN
2	AM	94	ASN

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Mol	Chain	Res	Type
2	AM	131	ASN
2	AM	140	ASN
2	AM	142	GLN
2	AM	146	GLN
2	AM	167	ASN
2	AM	274	GLN
2	AM	284	ASN
2	AM	310	ASN
2	AM	345	ASN
2	AN	26	ASN
2	AN	32	GLN
2	AN	53	ASN
2	AN	94	ASN
2	AN	107	ASN
2	AN	131	ASN
2	AN	140	ASN
2	AN	142	GLN
2	AN	167	ASN
2	AN	274	GLN
2	AN	284	ASN
2	AN	310	ASN
2	AN	345	ASN
2	AO	26	ASN
2	AO	53	ASN
2	AO	131	ASN
2	AO	140	ASN
2	AO	142	GLN
2	AO	143	ASN
2	AO	167	ASN
2	AO	274	GLN
2	AO	284	ASN
2	AO	345	ASN
3	BA	69	ASN
3	BA	182	ASN
3	BA	235	HIS
3	BA	248	ASN
3	BA	257	ASN
3	BA	288	ASN
3	BF	69	ASN
3	BF	149	GLN
3	BF	182	ASN
3	BF	235	HIS

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Mol	Chain	Res	Type
3	BF	248	ASN
3	BF	257	ASN
3	BF	288	ASN
3	BF	304	ASN
3	BG	52	ASN
3	BG	176	GLN
3	BG	182	ASN
3	BG	235	HIS
3	BG	248	ASN
3	BG	257	ASN
3	BG	262	GLN
3	BG	288	ASN
3	BG	304	ASN
3	BH	69	ASN
3	BH	176	GLN
3	BH	182	ASN
3	BH	235	HIS
3	BH	248	ASN
3	BH	257	ASN
3	BI	69	ASN
3	BI	182	ASN
3	BI	235	HIS
3	BI	248	ASN
3	BI	257	ASN
3	BI	262	GLN
3	BI	288	ASN
3	BI	305	GLN
3	BJ	52	ASN
3	BJ	182	ASN
3	BJ	235	HIS
3	BJ	248	ASN
3	BJ	257	ASN
3	BJ	305	GLN
3	BK	176	GLN
3	BK	182	ASN
3	BK	235	HIS
3	BK	248	ASN
3	BK	262	GLN
3	BK	305	GLN
3	BL	52	ASN
3	BL	149	GLN
3	BL	182	ASN

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Mol	Chain	Res	Type
3	BL	235	HIS
3	BL	248	ASN
3	BL	257	ASN
3	BL	280	GLN
3	BM	69	ASN
3	BM	176	GLN
3	BM	182	ASN
3	BM	235	HIS
3	BM	248	ASN
3	BM	257	ASN
3	BN	69	ASN
3	BN	182	ASN
3	BN	235	HIS
3	BN	248	ASN
3	BN	257	ASN
3	BN	288	ASN
3	BN	318	ASN
3	BO	52	ASN
3	BO	56	ASN
3	BO	69	ASN
3	BO	182	ASN
3	BO	235	HIS
3	BO	248	ASN
3	BO	257	ASN
3	BO	304	ASN
3	BO	305	GLN
3	BP	52	ASN
3	BP	56	ASN
3	BP	69	ASN
3	BP	96	ASN
3	BP	182	ASN
3	BP	235	HIS
3	BP	248	ASN
3	BP	257	ASN
3	BP	305	GLN
3	BQ	176	GLN
3	BQ	182	ASN
3	BQ	234	ASN
3	BQ	235	HIS
3	BQ	248	ASN
3	BQ	257	ASN
3	BQ	305	GLN

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Mol	Chain	Res	Type
4	BX	127	GLN
4	BX	178	ASN
4	BX	198	ASN
4	BX	364	ASN
4	BX	376	ASN
4	BX	516	GLN
4	BX	559	ASN
4	BX	632	ASN
4	BX	650	GLN
4	BX	677	ASN
4	BX	678	ASN
4	BX	706	GLN
4	BX	765	ASN
4	BY	36	ASN
4	BY	127	GLN
4	BY	178	ASN
4	BY	198	ASN
4	BY	315	HIS
4	BY	477	ASN
4	BY	516	GLN
4	BY	559	ASN
4	BY	632	ASN
4	BY	654	ASN
4	BY	677	ASN
4	BY	678	ASN
4	BY	706	GLN
4	BY	740	GLN
4	BY	765	ASN
4	BZ	268	ASN
4	BZ	300	ASN
4	BZ	321	ASN
4	BZ	329	ASN
4	BZ	376	ASN
4	BZ	393	GLN
4	BZ	414	GLN
4	BZ	516	GLN
4	BZ	559	ASN
4	BZ	632	ASN
4	BZ	677	ASN
4	BZ	678	ASN
4	BZ	706	GLN
4	BZ	765	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

14 monosaccharides are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or 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 length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
5	NAG	A	1	5	14,14,15	0.61	0	17,19,21	1.44	2 (11%)
5	NAG	A	2	5	14,14,15	1.09	1 (7%)	17,19,21	1.73	5 (29%)
5	NAG	B	1	5	14,14,15	0.63	0	17,19,21	1.45	2 (11%)
5	NAG	B	2	5	14,14,15	1.08	1 (7%)	17,19,21	1.73	5 (29%)
5	NAG	C	1	5	14,14,15	0.60	0	17,19,21	1.44	2 (11%)
5	NAG	C	2	5	14,14,15	1.08	1 (7%)	17,19,21	1.73	5 (29%)
5	NAG	D	1	5	14,14,15	0.60	0	17,19,21	1.44	2 (11%)
5	NAG	D	2	5	14,14,15	1.08	1 (7%)	17,19,21	1.74	5 (29%)
5	NAG	E	1	5	14,14,15	0.62	0	17,19,21	1.44	2 (11%)
5	NAG	E	2	5	14,14,15	1.07	1 (7%)	17,19,21	1.74	5 (29%)
5	NAG	F	1	5	14,14,15	0.62	0	17,19,21	1.44	2 (11%)
5	NAG	F	2	5	14,14,15	1.08	1 (7%)	17,19,21	1.74	5 (29%)
5	NAG	G	1	3,5	14,14,15	0.60	0	17,19,21	1.43	2 (11%)
5	NAG	G	2	5	14,14,15	1.08	1 (7%)	17,19,21	1.74	5 (29%)

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
5	NAG	A	1	5	-	0/6/23/26	0/1/1/1
5	NAG	A	2	5	-	1/6/23/26	0/1/1/1
5	NAG	B	1	5	-	0/6/23/26	0/1/1/1
5	NAG	B	2	5	-	1/6/23/26	0/1/1/1
5	NAG	C	1	5	-	0/6/23/26	0/1/1/1
5	NAG	C	2	5	-	1/6/23/26	0/1/1/1
5	NAG	D	1	5	-	0/6/23/26	0/1/1/1
5	NAG	D	2	5	-	1/6/23/26	0/1/1/1
5	NAG	E	1	5	-	0/6/23/26	0/1/1/1
5	NAG	E	2	5	-	1/6/23/26	0/1/1/1
5	NAG	F	1	5	-	0/6/23/26	0/1/1/1
5	NAG	F	2	5	-	1/6/23/26	0/1/1/1
5	NAG	G	1	3,5	1/1/5/7	0/6/23/26	0/1/1/1
5	NAG	G	2	5	-	1/6/23/26	0/1/1/1

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	2	NAG	C1-C2	3.06	1.56	1.52
5	F	2	NAG	C1-C2	3.05	1.56	1.52
5	B	2	NAG	C1-C2	3.04	1.56	1.52
5	D	2	NAG	C1-C2	3.02	1.56	1.52
5	G	2	NAG	C1-C2	3.00	1.56	1.52
5	C	2	NAG	C1-C2	2.95	1.56	1.52
5	E	2	NAG	C1-C2	2.94	1.56	1.52

All (49) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	G	2	NAG	C2-N2-C7	3.87	128.09	122.90
5	B	2	NAG	C2-N2-C7	3.87	128.09	122.90
5	D	2	NAG	C2-N2-C7	3.83	128.04	122.90
5	E	2	NAG	C2-N2-C7	3.83	128.04	122.90
5	C	2	NAG	C2-N2-C7	3.82	128.02	122.90
5	F	2	NAG	C2-N2-C7	3.82	128.02	122.90
5	A	2	NAG	C2-N2-C7	3.81	128.00	122.90
5	B	1	NAG	C1-O5-C5	3.71	117.16	112.19
5	E	1	NAG	C1-O5-C5	3.71	117.16	112.19
5	F	1	NAG	C1-O5-C5	3.71	117.15	112.19
5	A	1	NAG	C1-O5-C5	3.67	117.10	112.19
5	D	1	NAG	C1-O5-C5	3.66	117.10	112.19
5	C	1	NAG	C1-O5-C5	3.66	117.09	112.19
5	G	1	NAG	C1-O5-C5	3.61	117.03	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	1	NAG	O5-C1-C2	-3.28	106.22	111.29
5	F	1	NAG	O5-C1-C2	-3.23	106.29	111.29
5	A	1	NAG	O5-C1-C2	-3.23	106.29	111.29
5	C	1	NAG	O5-C1-C2	-3.23	106.30	111.29
5	E	1	NAG	O5-C1-C2	-3.23	106.30	111.29
5	D	1	NAG	O5-C1-C2	-3.21	106.32	111.29
5	G	1	NAG	O5-C1-C2	-3.19	106.36	111.29
5	F	2	NAG	C4-C3-C2	2.75	115.05	111.02
5	A	2	NAG	C4-C3-C2	2.73	115.02	111.02
5	C	2	NAG	C4-C3-C2	2.71	114.99	111.02
5	D	2	NAG	C4-C3-C2	2.71	114.99	111.02
5	E	2	NAG	C4-C3-C2	2.71	114.99	111.02
5	B	2	NAG	C4-C3-C2	2.71	114.99	111.02
5	G	2	NAG	C4-C3-C2	2.70	114.97	111.02
5	E	2	NAG	O7-C7-C8	-2.69	117.26	122.05
5	D	2	NAG	C1-O5-C5	2.69	115.79	112.19
5	G	2	NAG	O7-C7-C8	-2.68	117.29	122.05
5	E	2	NAG	O7-C7-N2	2.67	126.71	121.98
5	F	2	NAG	O7-C7-C8	-2.67	117.29	122.05
5	A	2	NAG	O7-C7-C8	-2.66	117.32	122.05
5	B	2	NAG	O7-C7-C8	-2.66	117.32	122.05
5	C	2	NAG	O7-C7-C8	-2.65	117.33	122.05
5	F	2	NAG	C1-O5-C5	2.65	115.74	112.19
5	G	2	NAG	C1-O5-C5	2.65	115.74	112.19
5	E	2	NAG	C1-O5-C5	2.65	115.73	112.19
5	C	2	NAG	O7-C7-N2	2.64	126.65	121.98
5	D	2	NAG	O7-C7-C8	-2.64	117.36	122.05
5	F	2	NAG	O7-C7-N2	2.63	126.63	121.98
5	D	2	NAG	O7-C7-N2	2.63	126.62	121.98
5	A	2	NAG	O7-C7-N2	2.62	126.61	121.98
5	G	2	NAG	O7-C7-N2	2.62	126.61	121.98
5	A	2	NAG	C1-O5-C5	2.62	115.69	112.19
5	B	2	NAG	C1-O5-C5	2.62	115.69	112.19
5	C	2	NAG	C1-O5-C5	2.60	115.67	112.19
5	B	2	NAG	O7-C7-N2	2.58	126.53	121.98

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
5	G	1	NAG	C1

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	2	NAG	O5-C5-C6-O6
5	B	2	NAG	O5-C5-C6-O6
5	D	2	NAG	O5-C5-C6-O6
5	E	2	NAG	O5-C5-C6-O6
5	F	2	NAG	O5-C5-C6-O6
5	G	2	NAG	O5-C5-C6-O6
5	C	2	NAG	O5-C5-C6-O6

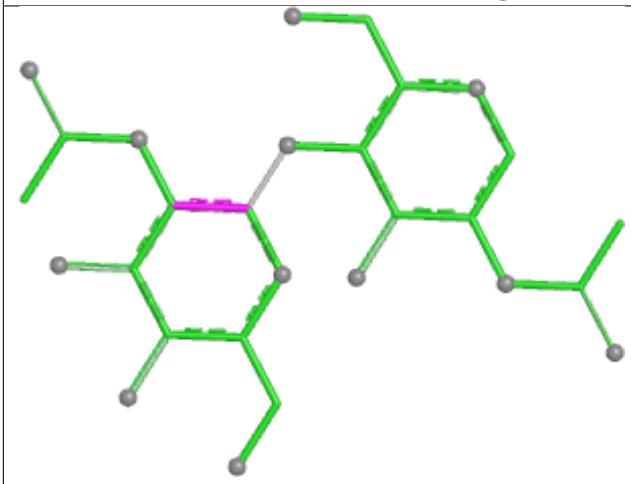
There are no ring outliers.

6 monomers are involved in 18 short contacts:

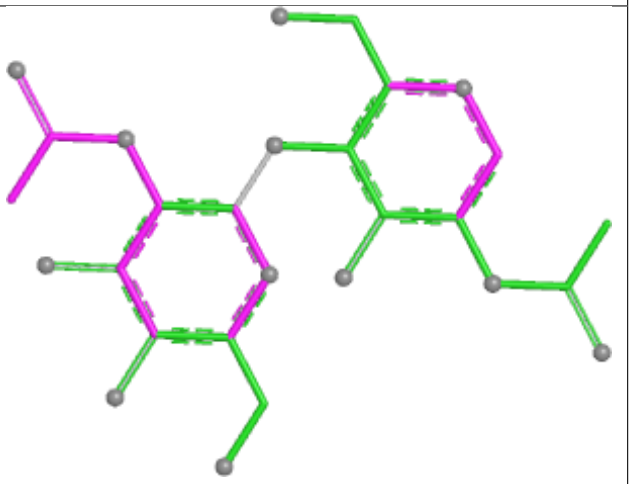
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	C	1	NAG	4	0
5	F	1	NAG	3	0
5	E	1	NAG	3	0
5	D	1	NAG	2	0
5	A	1	NAG	2	0
5	B	1	NAG	4	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

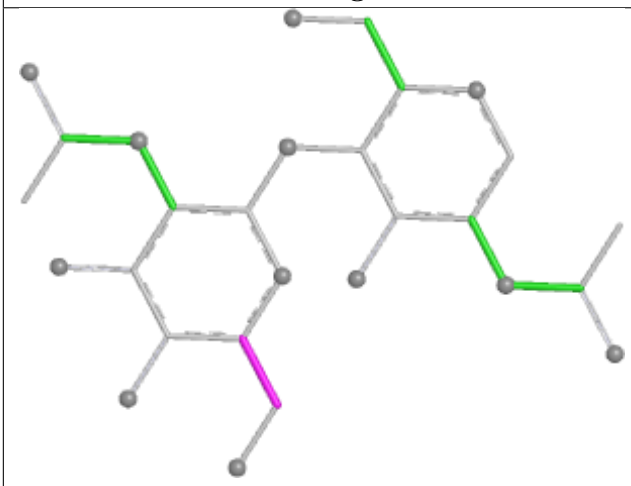
Oligosaccharide Chain A



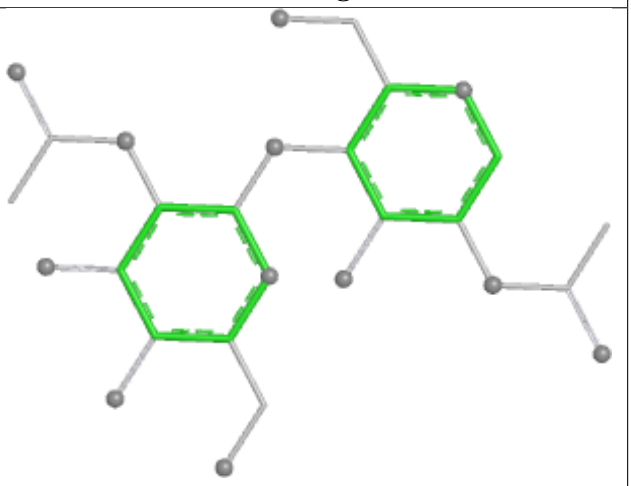
Bond lengths



Bond angles

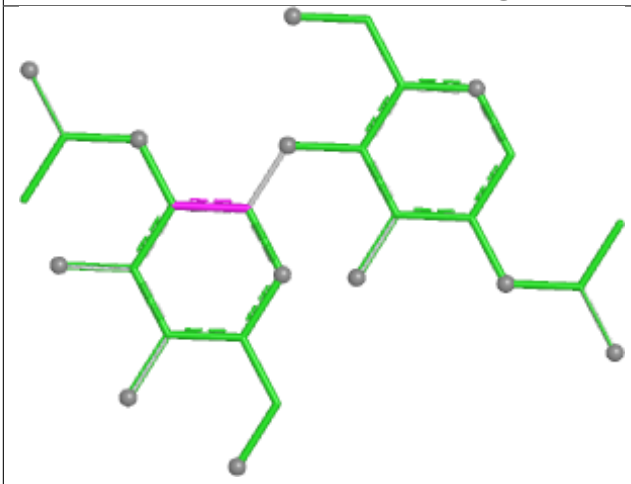


Torsions

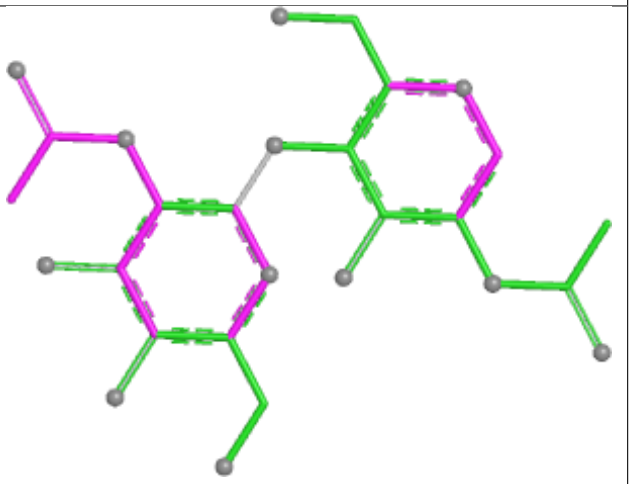


Rings

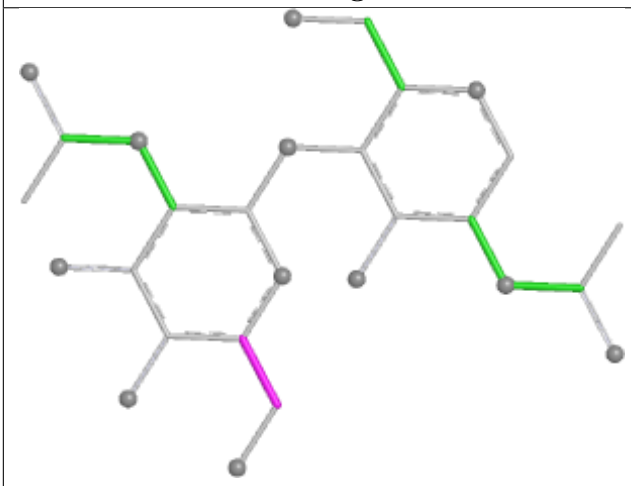
Oligosaccharide Chain B



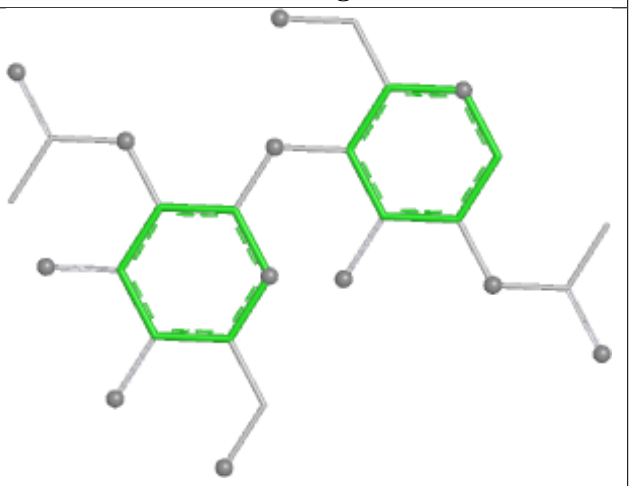
Bond lengths



Bond angles

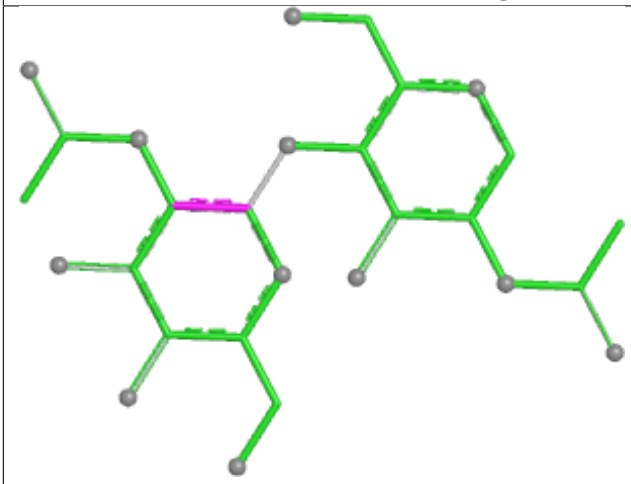


Torsions

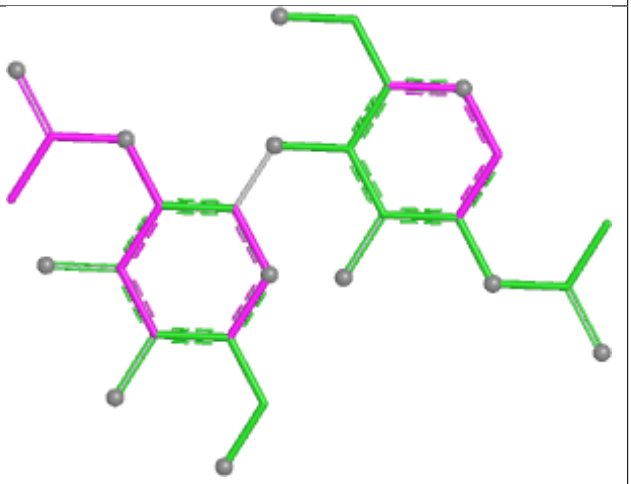


Rings

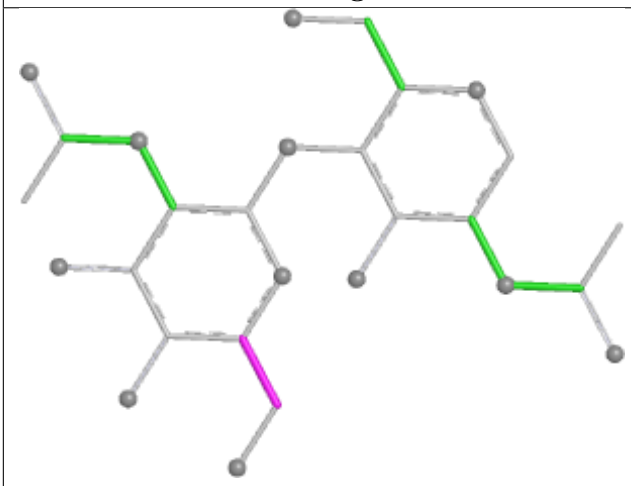
Oligosaccharide Chain C



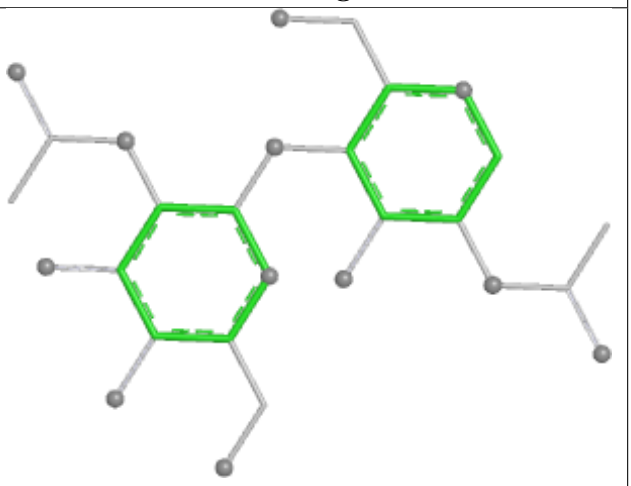
Bond lengths



Bond angles

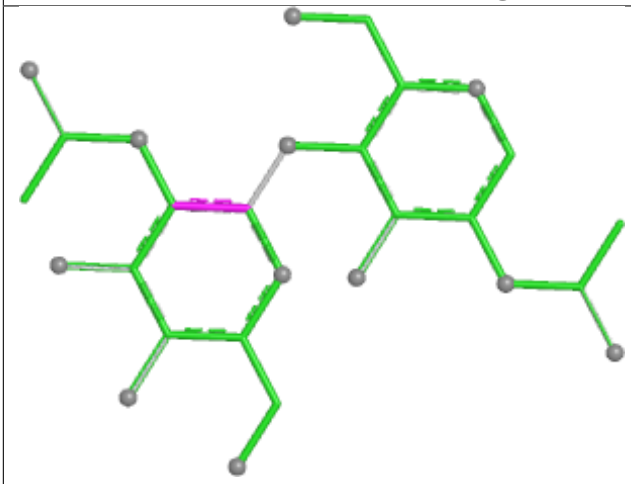


Torsions

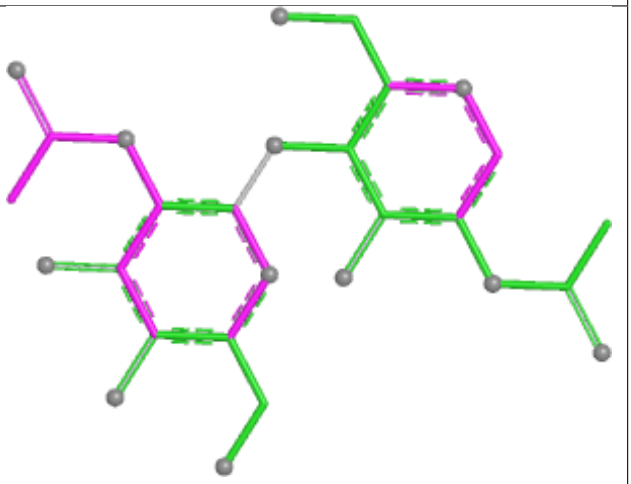


Rings

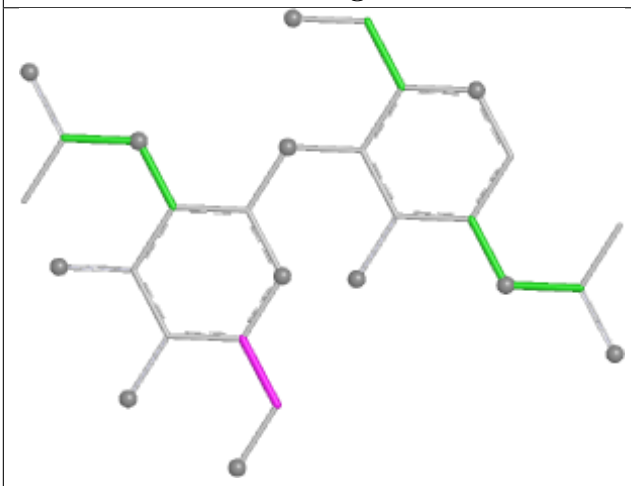
Oligosaccharide Chain D



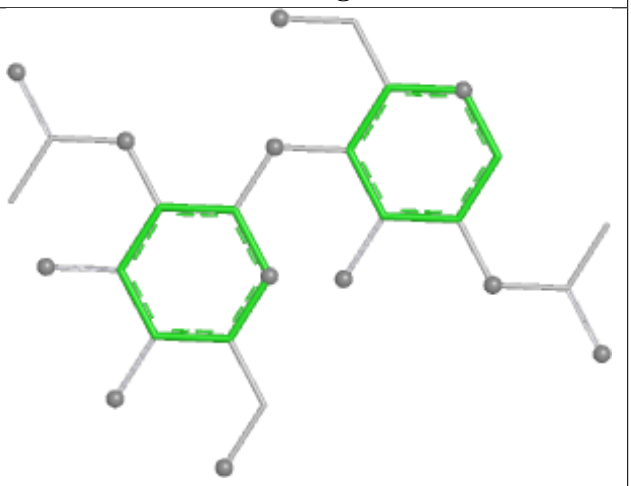
Bond lengths



Bond angles

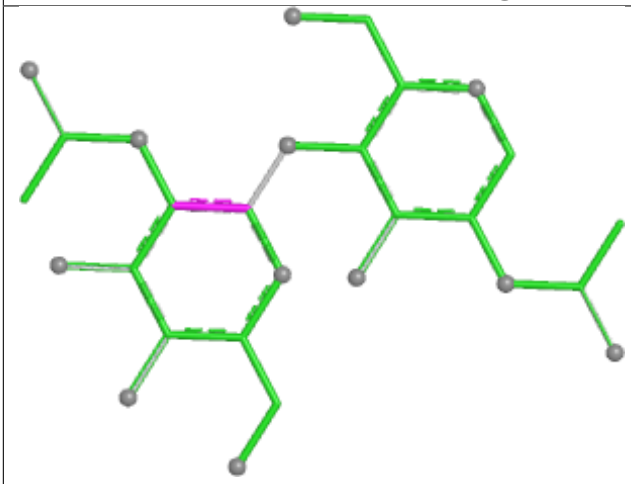


Torsions

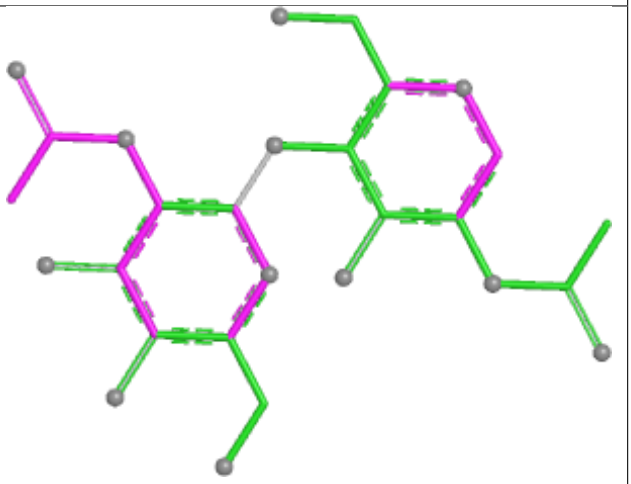


Rings

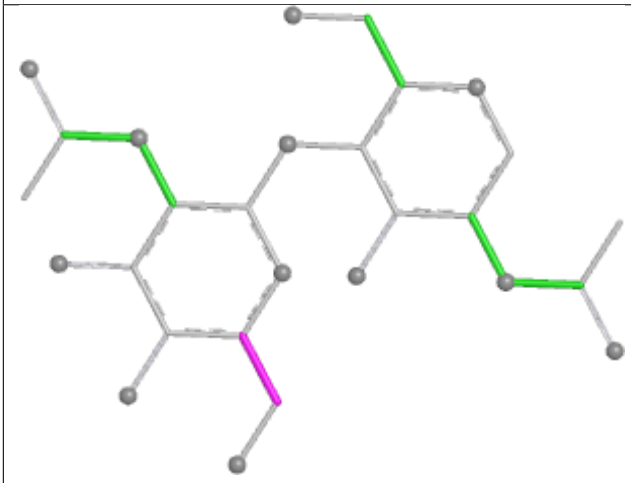
Oligosaccharide Chain E



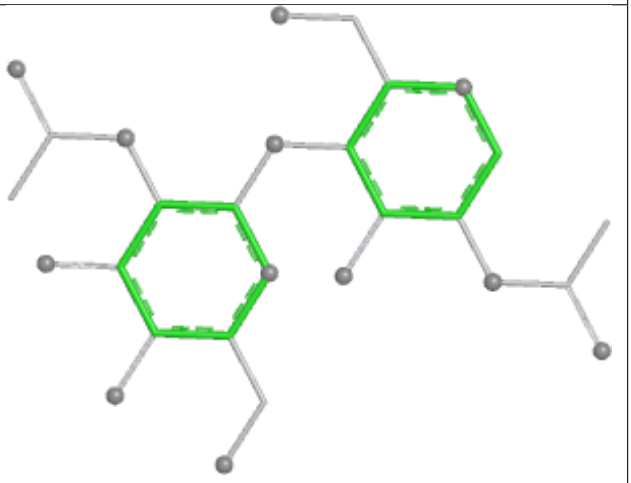
Bond lengths



Bond angles

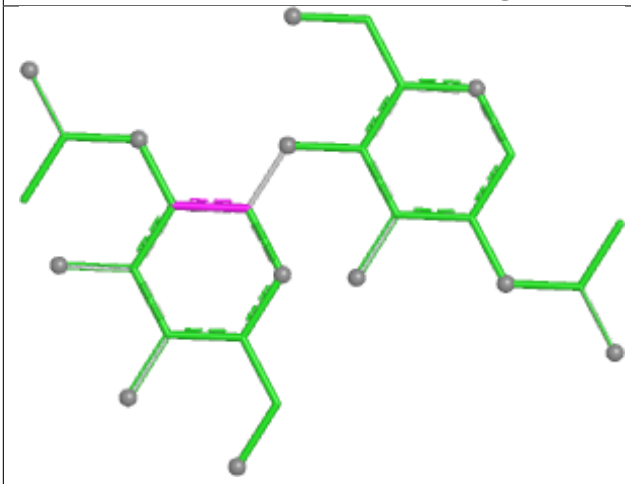


Torsions

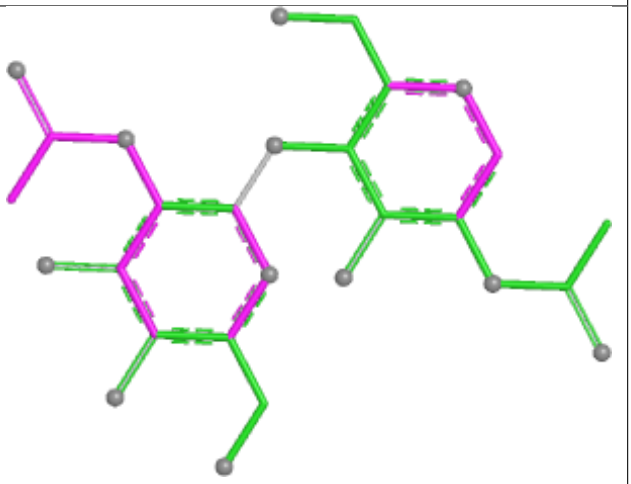


Rings

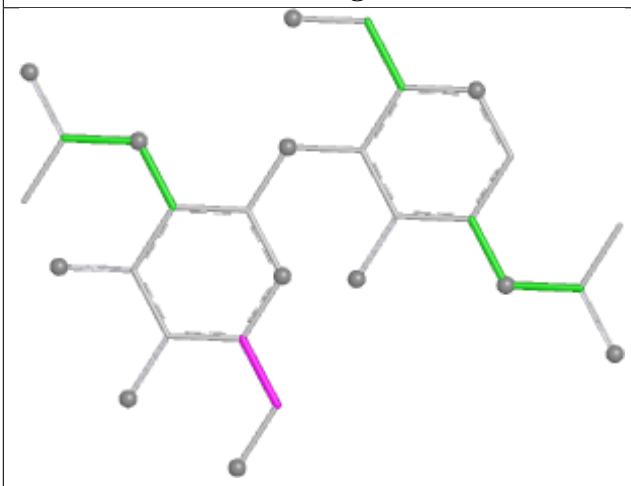
Oligosaccharide Chain F



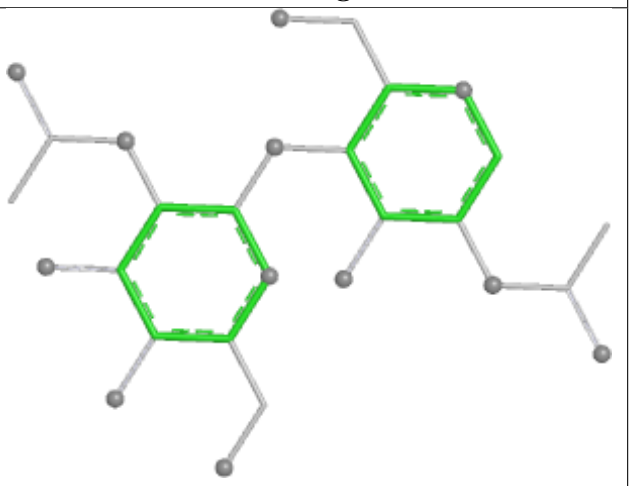
Bond lengths



Bond angles

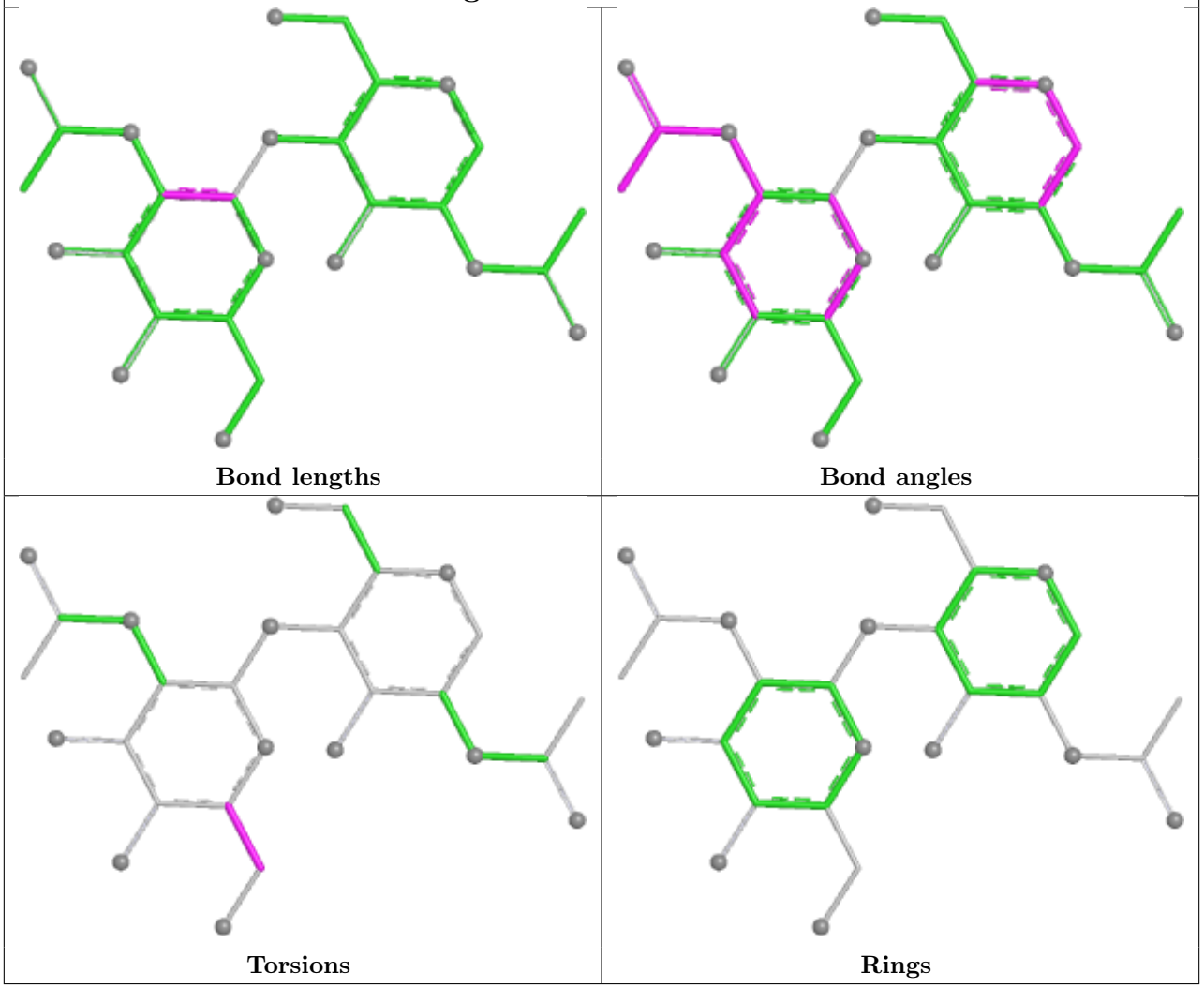


Torsions



Rings

Oligosaccharide Chain G



5.6 Ligand geometry (i)

Of 6 ligands modelled in this entry, 5 are monoatomic - leaving 1 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or 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 length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
7	NAG	BM	401	-	14,14,15	0.62	0	17,19,21	1.43	2 (11%)

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
7	NAG	BM	401	-	-	0/6/23/26	0/1/1/1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	BM	401	NAG	C1-O5-C5	3.65	117.08	112.19
7	BM	401	NAG	O5-C1-C2	-3.19	106.35	111.29

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	BM	401	NAG	4	0

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

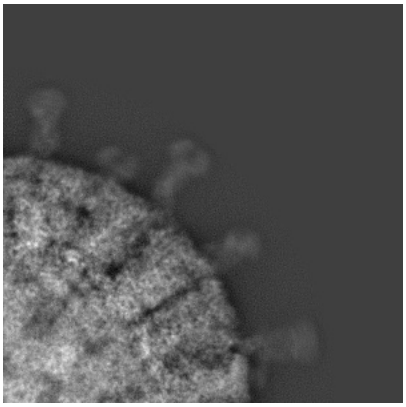
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-5199. These allow visual inspection of the internal detail of the map and identification of artifacts.

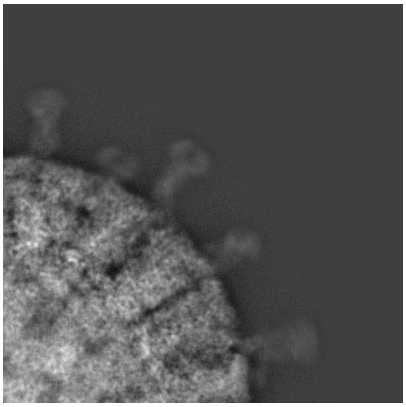
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

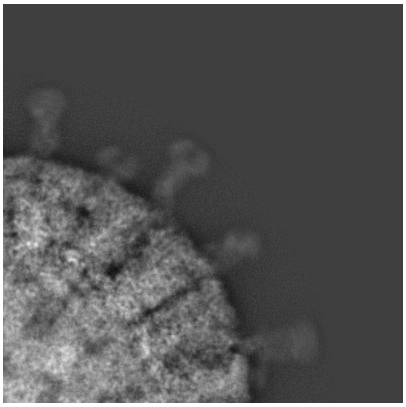
6.1.1 Primary map



X



Y

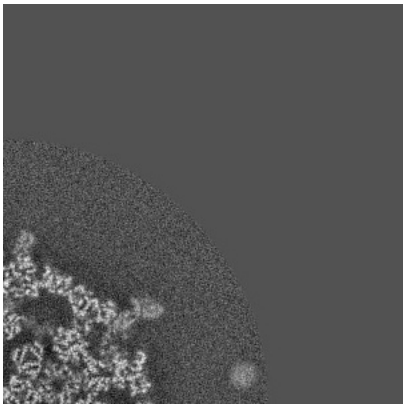


Z

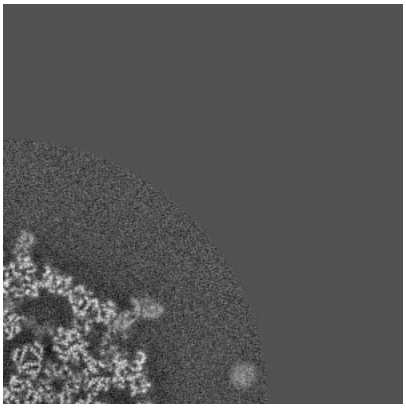
The images above show the map projected in three orthogonal directions.

6.2 Central slices

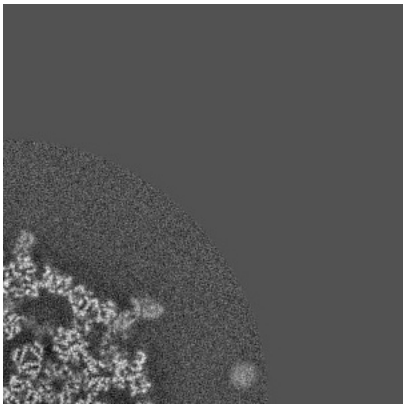
6.2.1 Primary map



X Index: 250



Y Index: 250

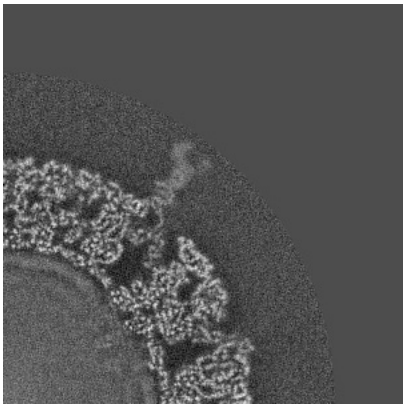


Z Index: 250

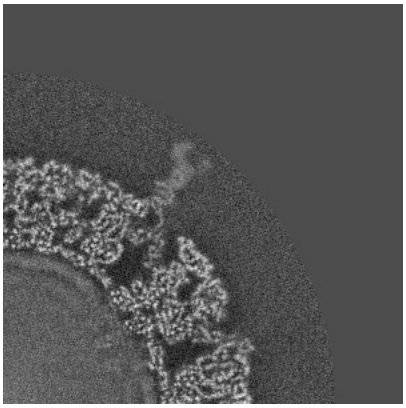
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

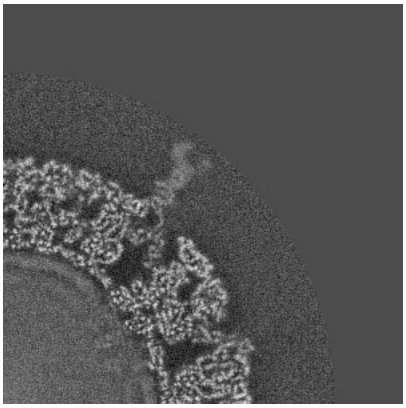
6.3.1 Primary map



X Index: 22



Y Index: 22

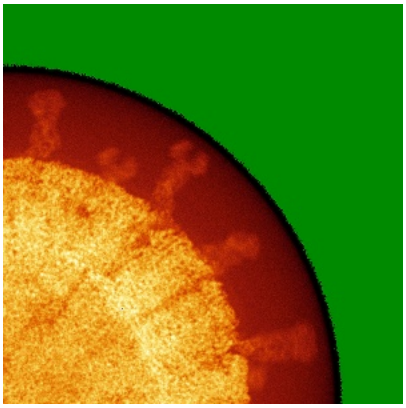


Z Index: 22

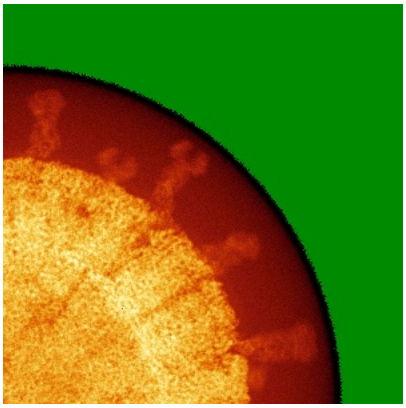
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

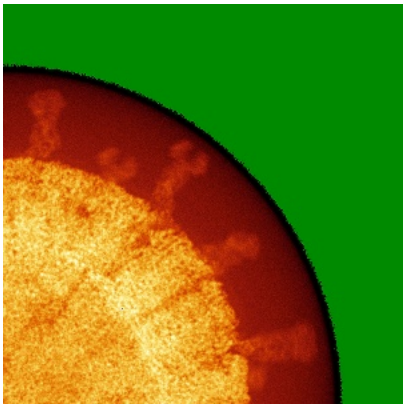
6.4.1 Primary map



X



Y

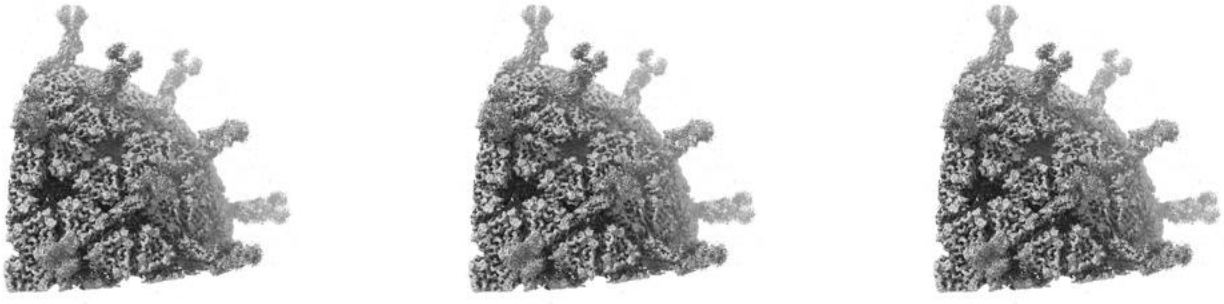


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.12. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

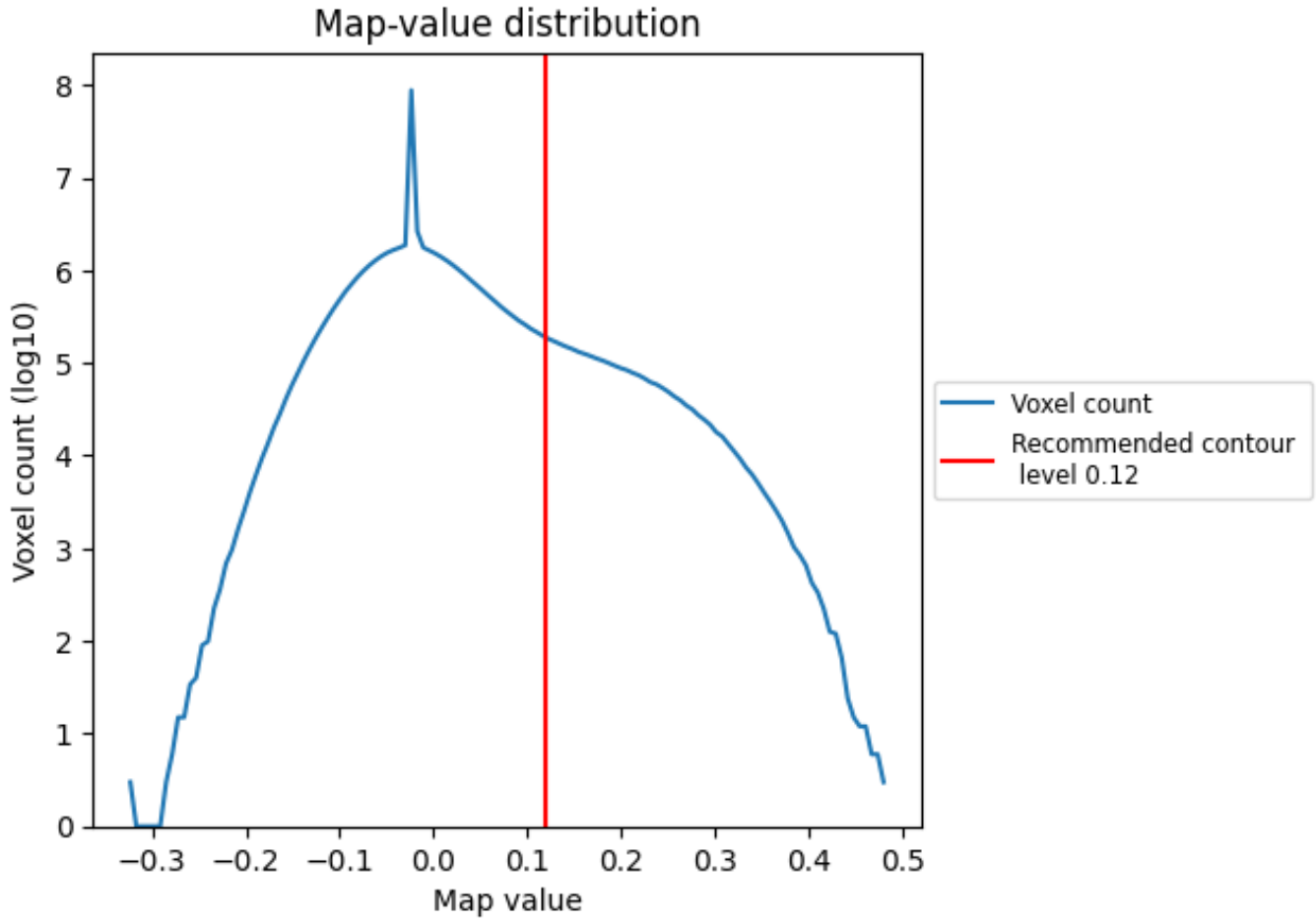
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

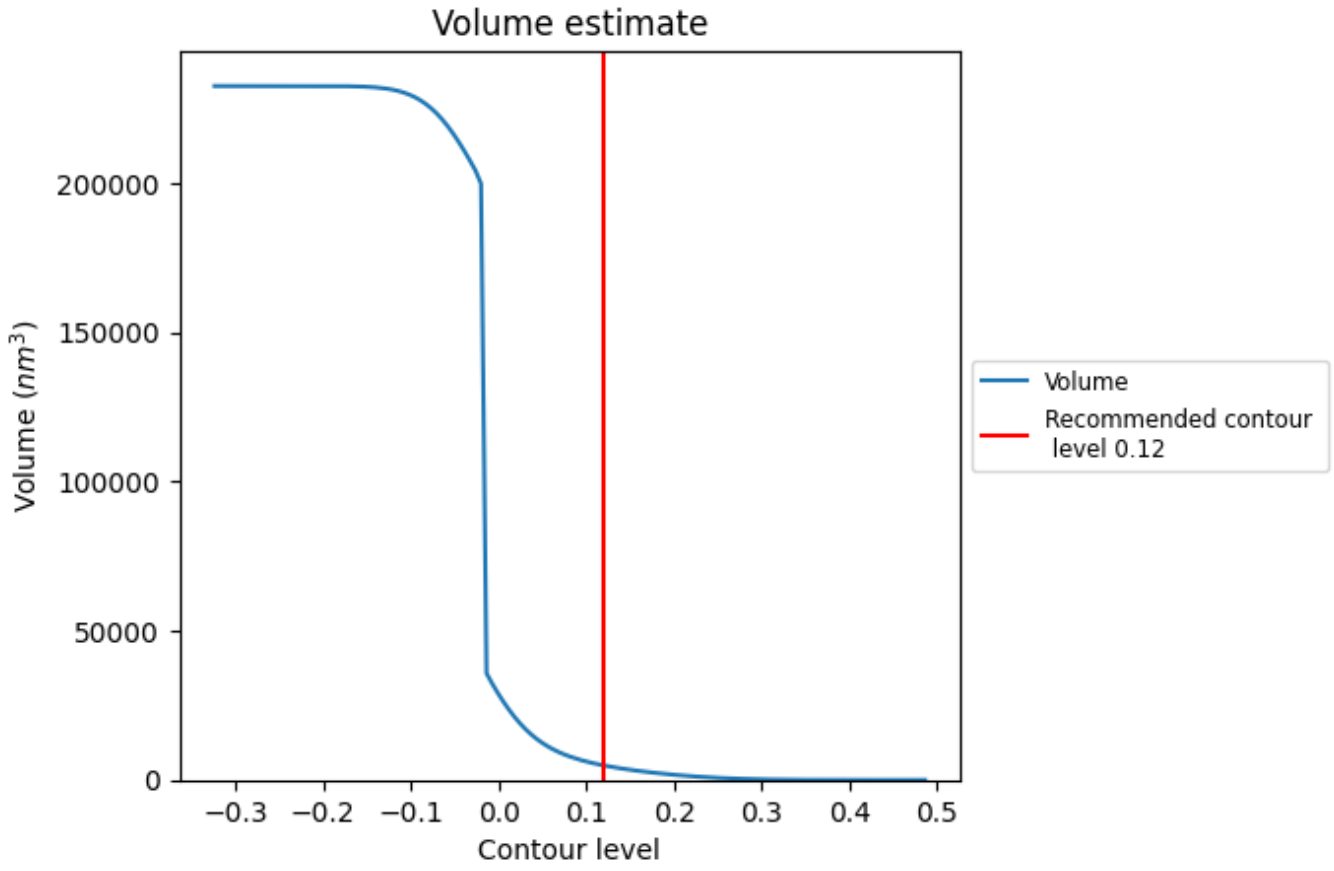
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

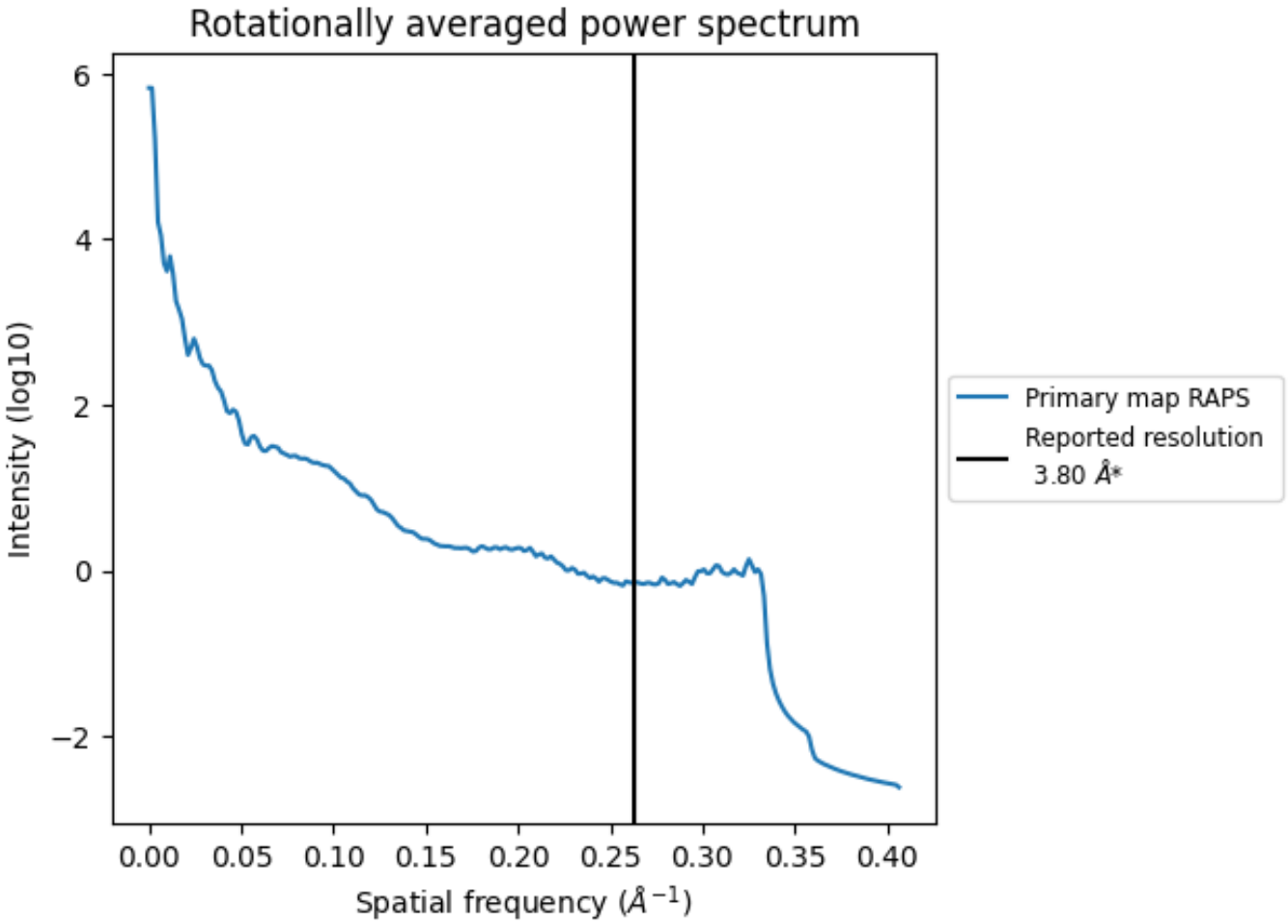
7.2 Volume estimate



The volume at the recommended contour level is 4878 nm^3; this corresponds to an approximate mass of 4406 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.263 Å^{-1}

8 Fourier-Shell correlation

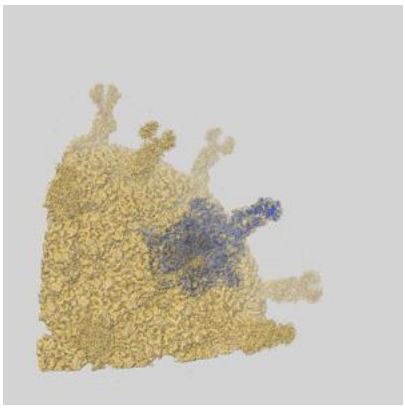
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

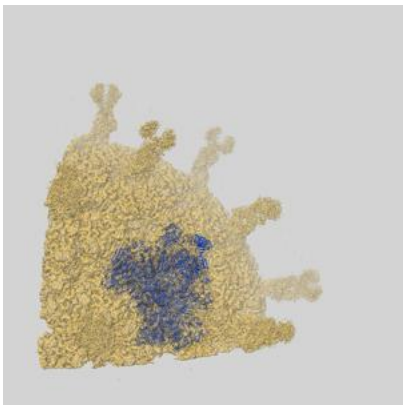
This section contains information regarding the fit between EMDB map EMD-5199 and PDB model 4V7Q. Per-residue inclusion information can be found in section 3 on page 9.

9.1 Map-model overlays

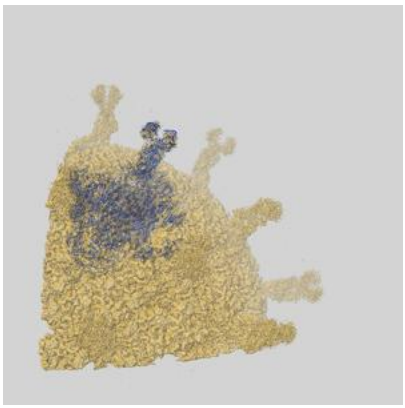
9.1.1 Map-model overlay



X

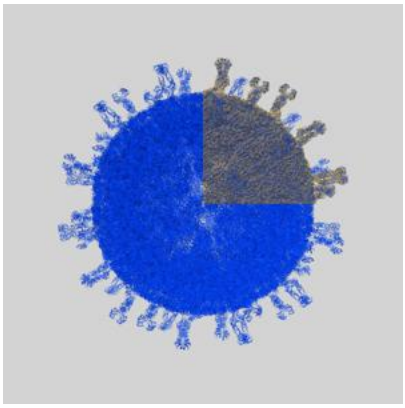


Y

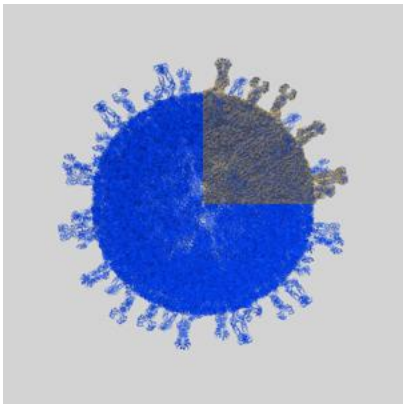


Z

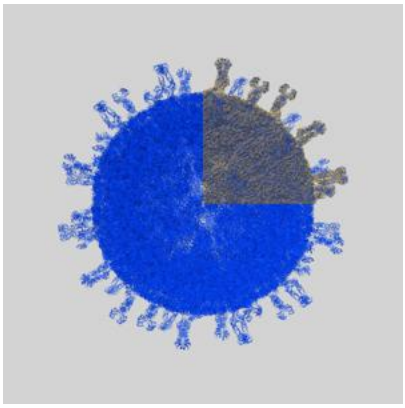
9.1.2 Map-model assembly overlay



X



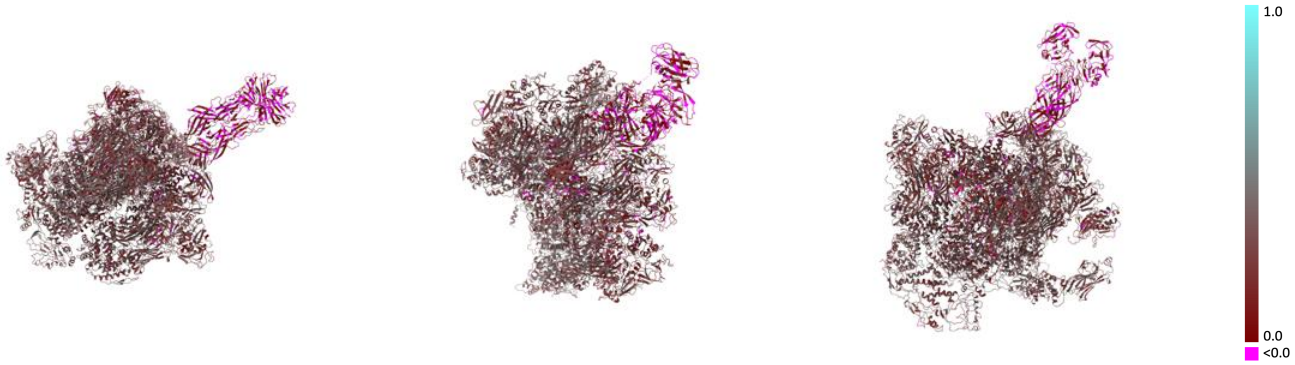
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.12 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

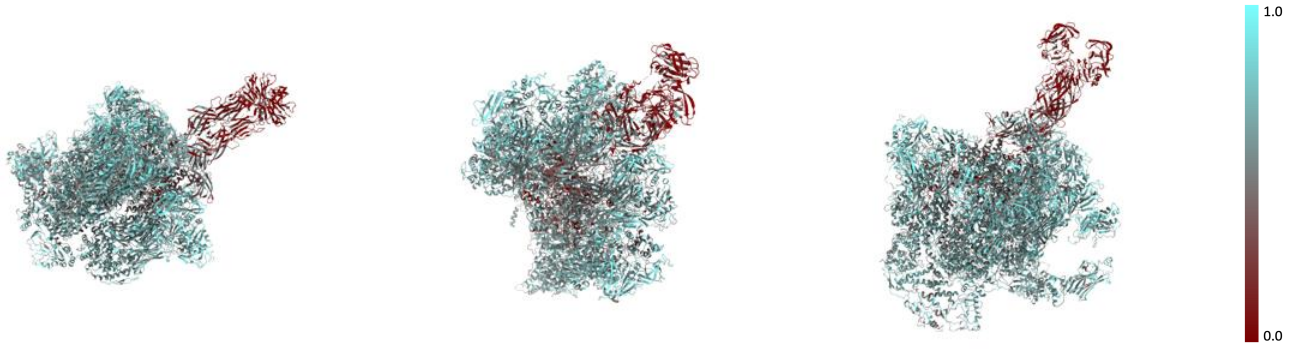
9.2 Q-score mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

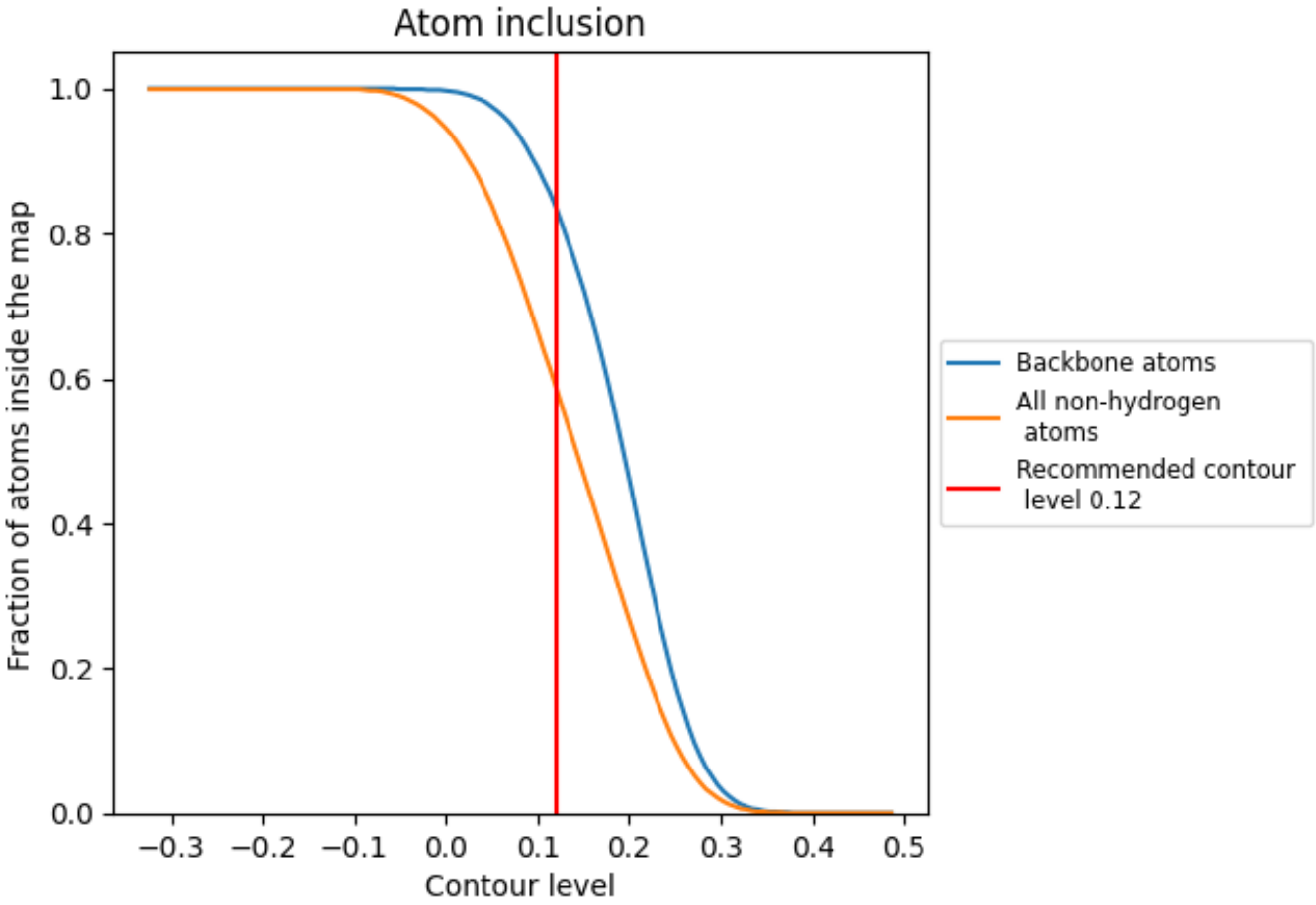
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.12).

9.4 Atom inclusion (i)



At the recommended contour level, 84% of all backbone atoms, 59% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.12) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5880	0.2770
A	0.1070	0.1760
AA	0.6230	0.3070
AB	0.6380	0.3210
AC	0.6460	0.3230
AD	0.6390	0.3160
AE	0.6460	0.3200
AF	0.6240	0.3100
AG	0.6080	0.2980
AH	0.6380	0.3340
AI	0.6050	0.2960
AJ	0.6370	0.2950
AK	0.6320	0.3190
AL	0.6270	0.3180
AM	0.6450	0.3240
AN	0.6390	0.3320
AO	0.6360	0.3150
B	0.2860	0.2760
BA	0.6730	0.2510
BF	0.6910	0.2710
BG	0.6670	0.2710
BH	0.6850	0.2660
BI	0.6710	0.2740
BJ	0.6020	0.2080
BK	0.6590	0.2520
BL	0.6150	0.2240
BM	0.6620	0.2090
BN	0.6760	0.2600
BO	0.6800	0.2760
BP	0.6800	0.2820
BQ	0.6930	0.2760
BX	0.2720	0.1600
BY	0.2760	0.1590
BZ	0.4000	0.2490
C	0.1790	0.1830

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
D	0.1070	0.0980
E	0.1790	0.0830
F	0.2140	0.1900
G	0.1430	0.1670