



Full wwPDB EM Validation Report ⓘ

Dec 17, 2024 – 03:01 AM EST

PDB ID : 6MU1
EMDB ID : EMD-9243
Title : Structure of full-length IP3R1 channel bound with Adenophostin A
Authors : Serysheva, I.I.; Fan, G.; Baker, M.R.; Wang, Z.; Seryshev, A.; Ludtke, S.J.;
Baker, M.L.
Deposited on : 2018-10-22
Resolution : 4.10 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
buster-report : 1.1.7 (2018)
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) : 2.40

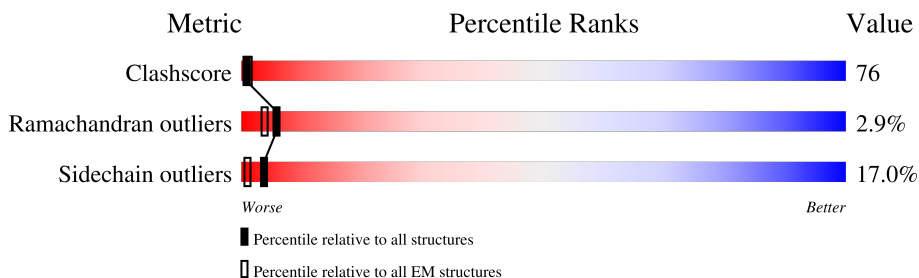
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.10 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 $\leq 5\%$. 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	A	2739	
1	B	2739	
1	C	2739	
1	D	2739	

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
2	JYP	A	2801	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	JYP	B	2801	-	-	X	-
2	JYP	C	2801	-	-	X	-
2	JYP	D	2801	-	-	X	-

2 Entry composition [i](#)

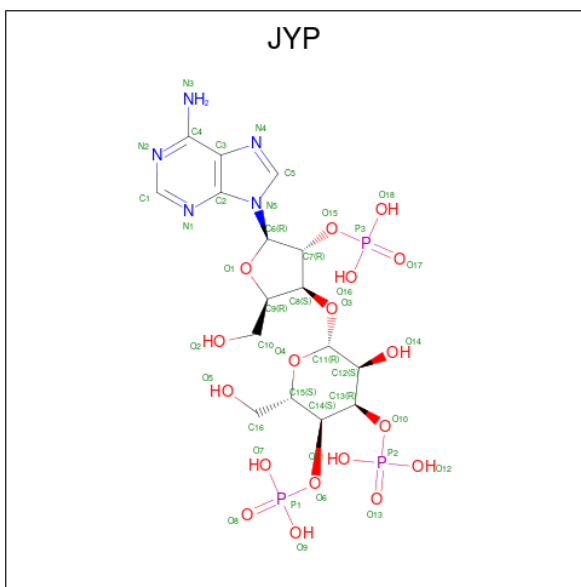
There are 2 unique types of molecules in this entry. The entry contains 50184 atoms, of which 20 are hydrogens and 0 are deuteriums.

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 Inositol 1,4,5-trisphosphate receptor type 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	2149	Total	C	N	O	S	0	0
			12499	7356	2487	2612	44		
1	C	2149	Total	C	N	O	S	0	0
			12499	7356	2487	2612	44		
1	B	2149	Total	C	N	O	S	0	0
			12499	7356	2487	2612	44		
1	D	2149	Total	C	N	O	S	0	0
			12499	7356	2487	2612	44		

- Molecule 2 is Adenophostin A (three-letter code: JYP) (formula: $C_{16}H_{26}N_5O_{18}P_3$).



Mol	Chain	Residues	Atoms					AltConf	
			Total	C	H	N	O		P
2	A	1	Total	C	H	N	O	P	0
			47	16	5	5	18	3	
2	C	1	Total	C	H	N	O	P	0
			47	16	5	5	18	3	
2	B	1	Total	C	H	N	O	P	0
			47	16	5	5	18	3	

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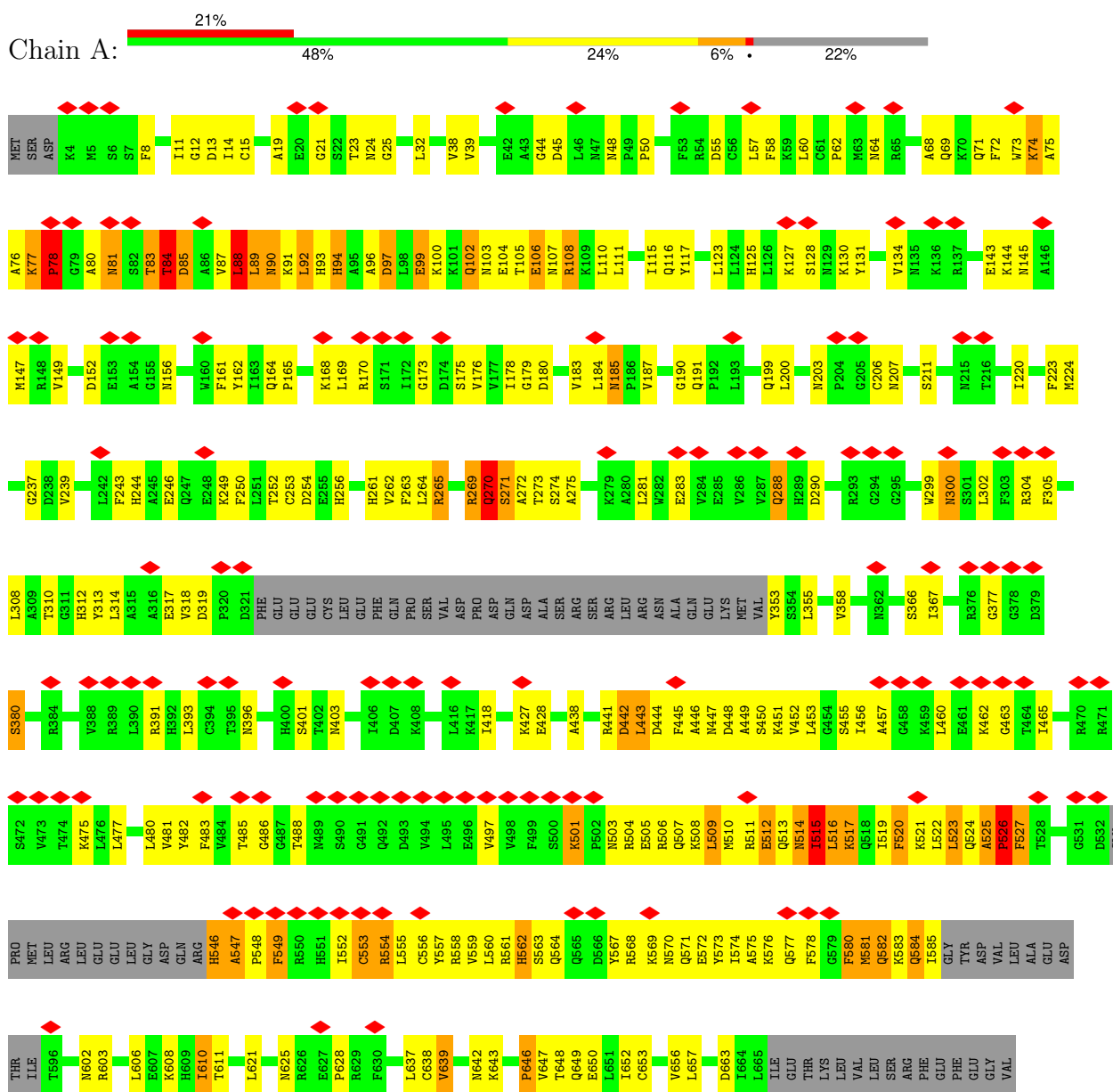
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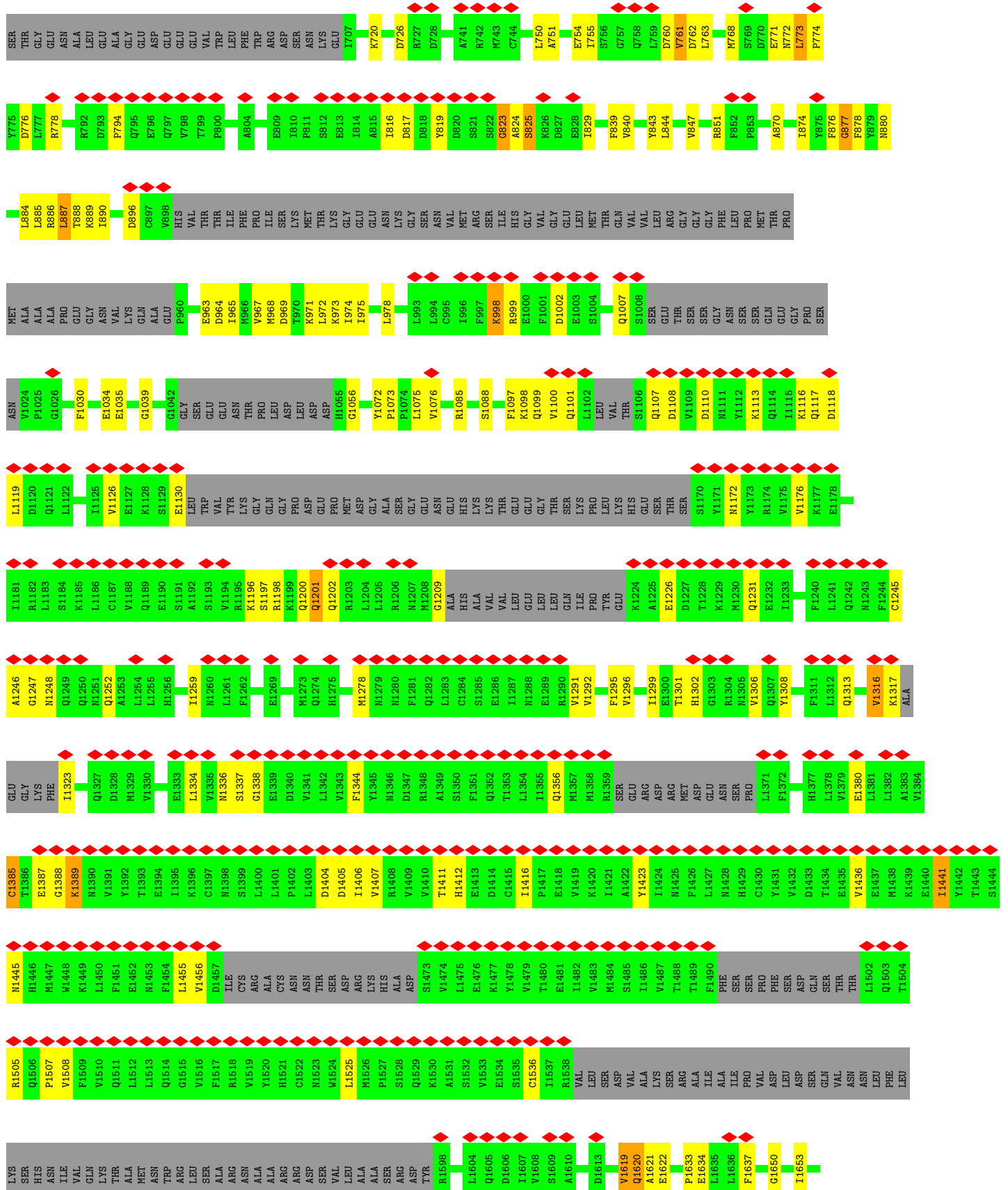
Mol	Chain	Residues	Atoms					AltConf	
			Total	C	H	N	O		P
2	D	1	47	16	5	5	18	3	0

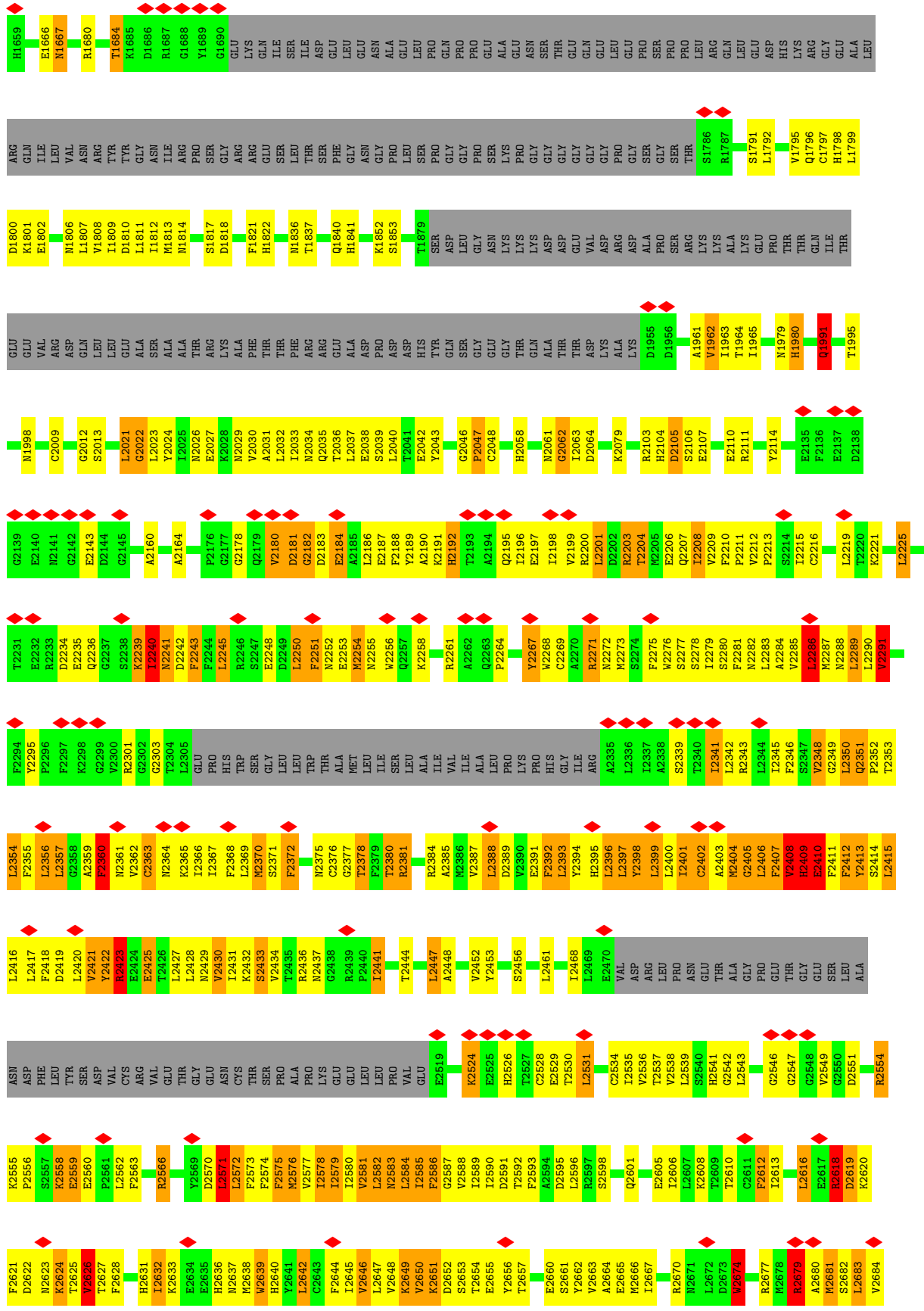
3 Residue-property plots

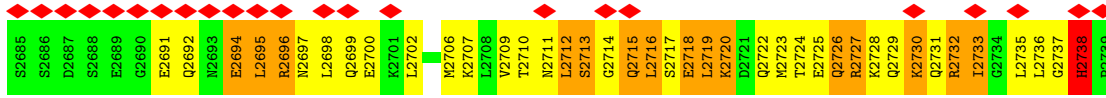
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Inositol 1,4,5-trisphosphate receptor type 1

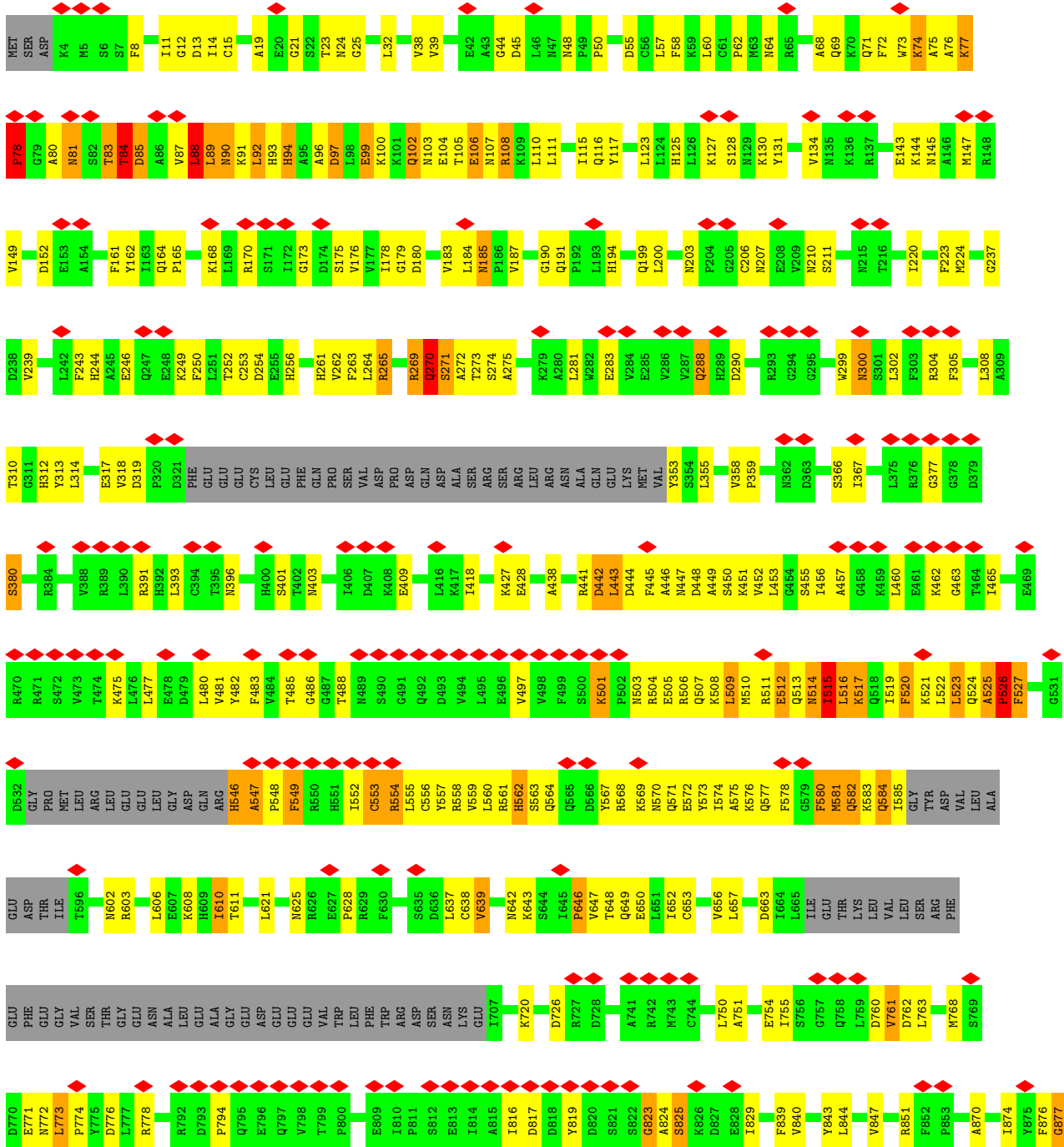


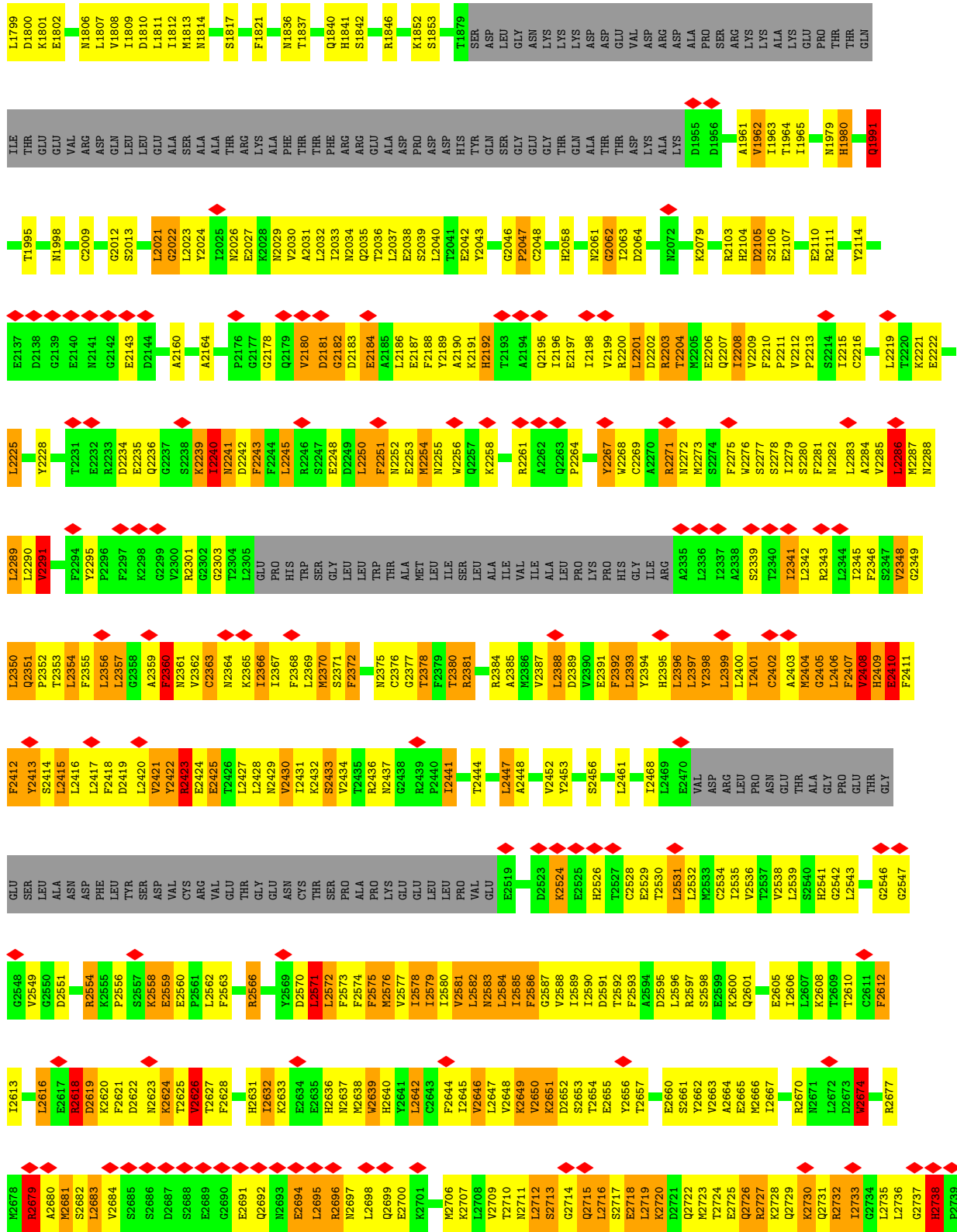






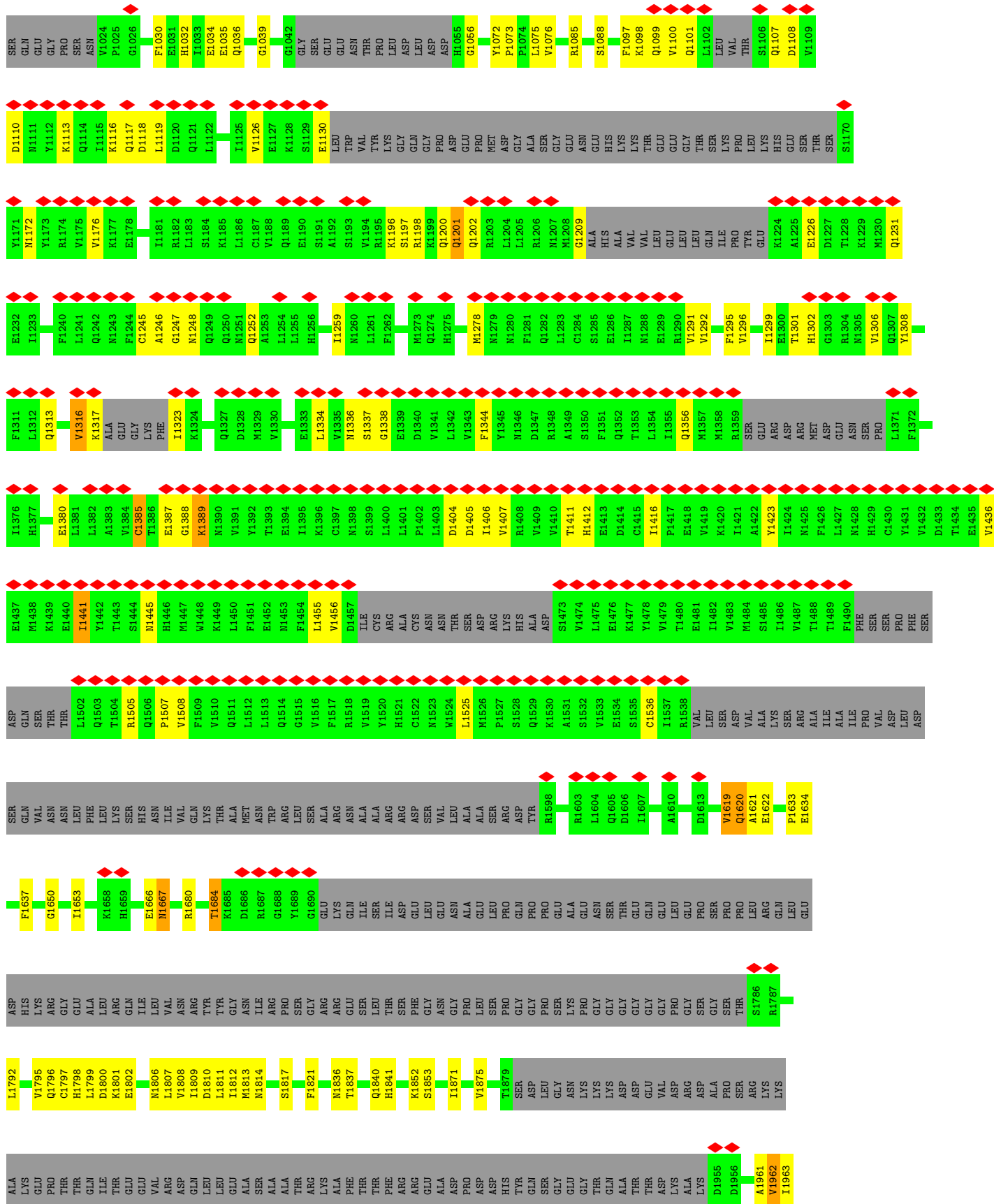
● Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1

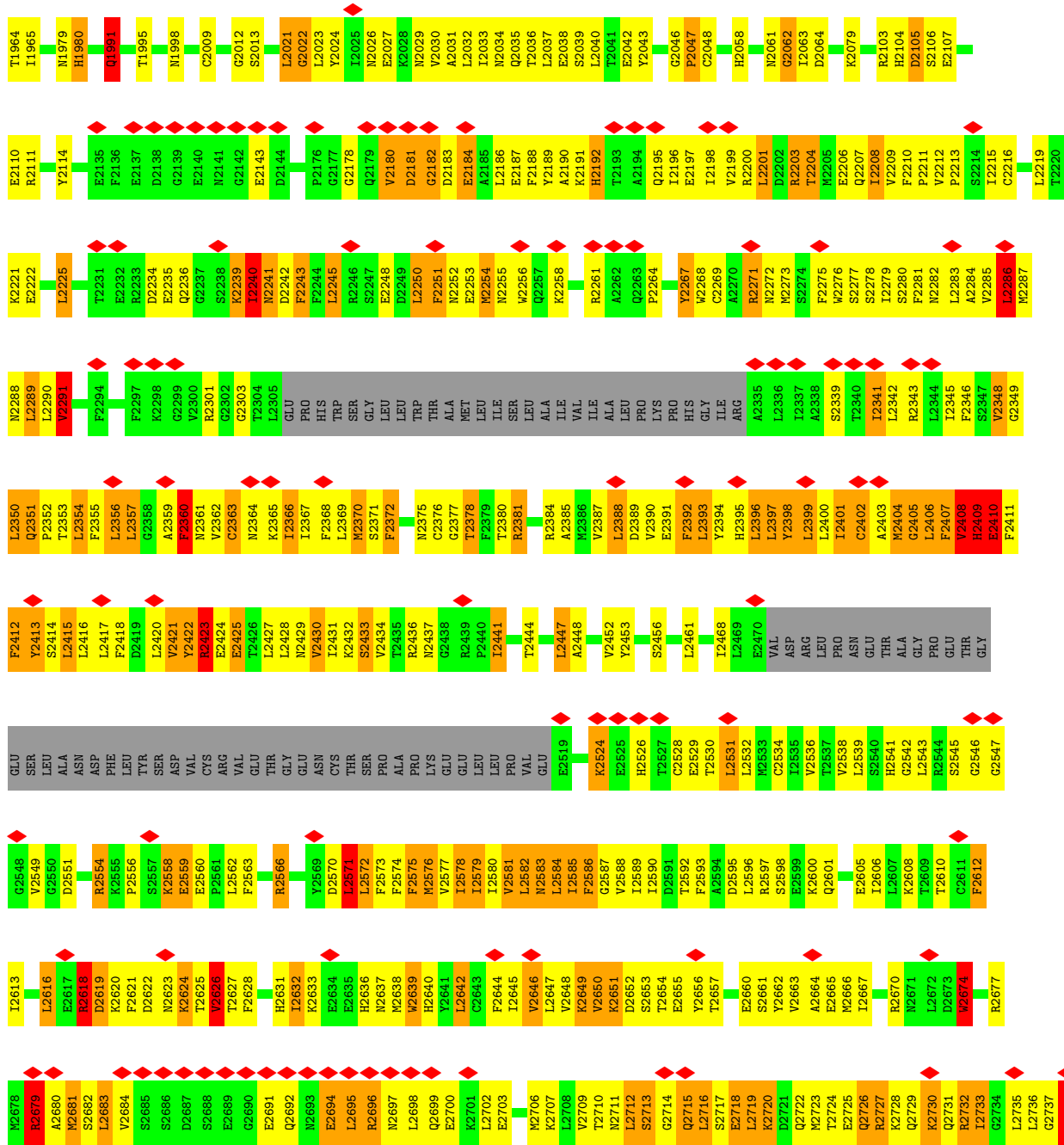




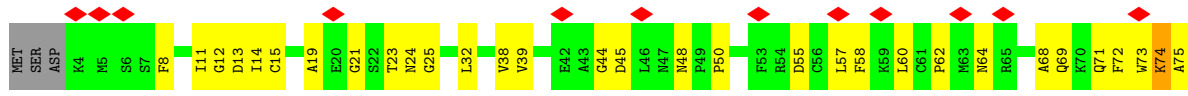
• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1

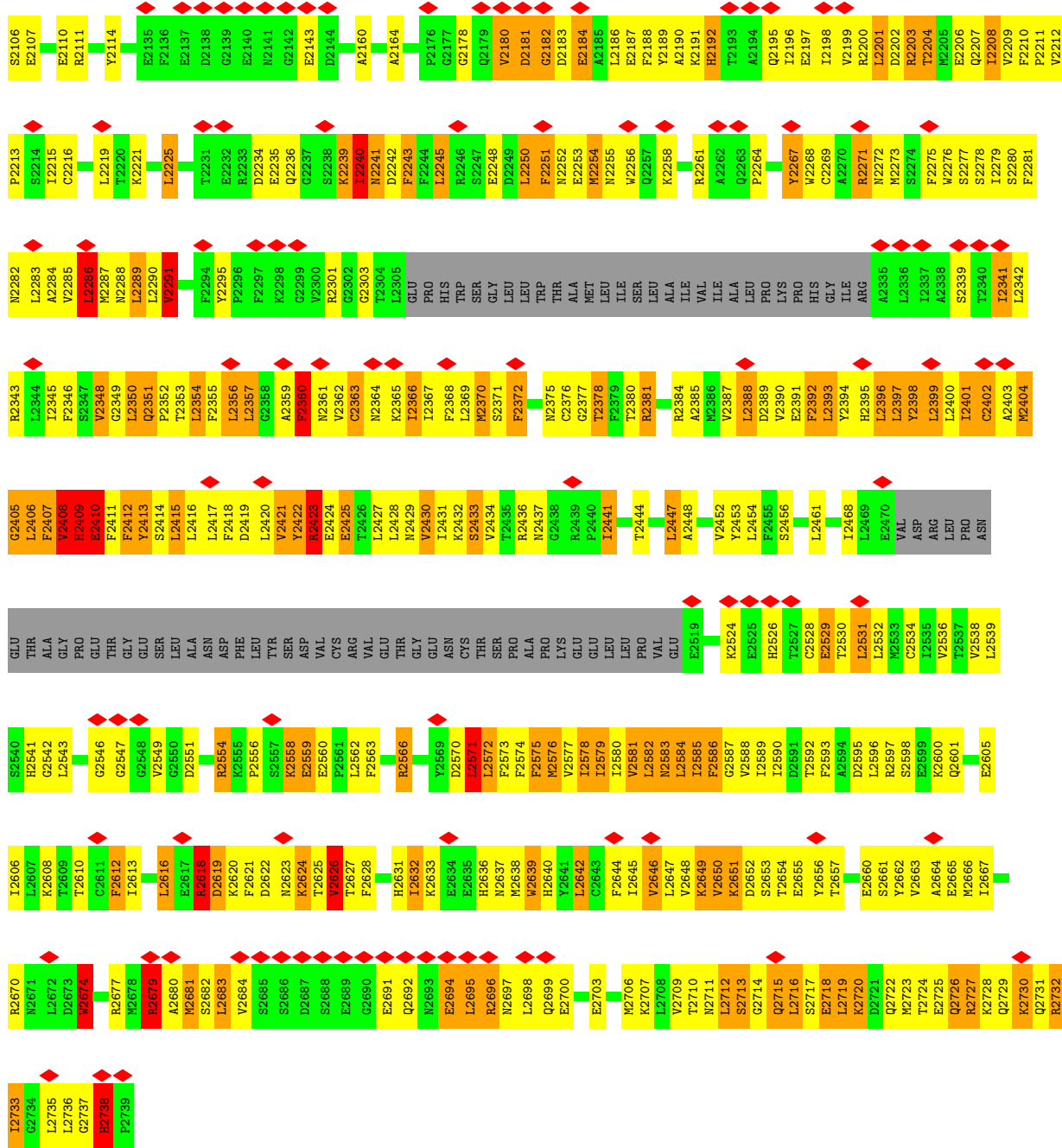






• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	179760	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	1.3	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	16.041	Depositor
Minimum map value	-13.204	Depositor
Average map value	0.092	Depositor
Map value standard deviation	0.632	Depositor
Recommended contour level	1.75	Depositor
Map size (\AA)	252.0, 252.0, 252.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.26, 1.26, 1.26	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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	A	0.62	8/12648 (0.1%)	0.99	63/16640 (0.4%)
1	B	0.62	8/12648 (0.1%)	0.99	61/16640 (0.4%)
1	C	0.62	8/12648 (0.1%)	0.99	62/16640 (0.4%)
1	D	0.62	8/12648 (0.1%)	0.99	63/16640 (0.4%)
All	All	0.62	32/50592 (0.1%)	0.99	249/66560 (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	A	0	17
1	B	0	17
1	C	0	17
1	D	0	17
All	All	0	68

All (32) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1201	GLN	C-N	10.45	1.58	1.34
1	C	1201	GLN	C-N	10.42	1.58	1.34
1	A	1201	GLN	C-N	10.41	1.58	1.34
1	D	1201	GLN	C-N	10.40	1.57	1.34
1	A	2583	ASN	CB-CG	7.56	1.68	1.51
1	B	2583	ASN	CB-CG	7.56	1.68	1.51
1	C	2583	ASN	CB-CG	7.55	1.68	1.51
1	D	2583	ASN	CB-CG	7.55	1.68	1.51
1	C	2575	PHE	CB-CG	-7.06	1.39	1.51
1	D	2575	PHE	CB-CG	-7.05	1.39	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2575	PHE	CB-CG	-7.04	1.39	1.51
1	A	2575	PHE	CB-CG	-7.03	1.39	1.51
1	B	2583	ASN	CA-CB	6.33	1.69	1.53
1	C	2583	ASN	CA-CB	6.33	1.69	1.53
1	D	2583	ASN	CA-CB	6.33	1.69	1.53
1	A	2583	ASN	CA-CB	6.32	1.69	1.53
1	C	2579	ILE	CA-C	-6.01	1.37	1.52
1	D	2579	ILE	CA-C	-6.00	1.37	1.52
1	B	2579	ILE	CA-C	-6.00	1.37	1.52
1	A	2579	ILE	CA-C	-5.99	1.37	1.52
1	B	2674	TRP	CB-CG	-5.66	1.40	1.50
1	D	2674	TRP	CB-CG	-5.66	1.40	1.50
1	A	2674	TRP	CB-CG	-5.62	1.40	1.50
1	C	2674	TRP	CB-CG	-5.62	1.40	1.50
1	B	2585	ILE	CA-C	-5.20	1.39	1.52
1	D	2585	ILE	CA-C	-5.19	1.39	1.52
1	C	2585	ILE	CA-C	-5.18	1.39	1.52
1	A	2585	ILE	CA-C	-5.17	1.39	1.52
1	C	2578	ILE	N-CA	-5.06	1.36	1.46
1	A	2578	ILE	N-CA	-5.05	1.36	1.46
1	B	2578	ILE	N-CA	-5.05	1.36	1.46
1	D	2578	ILE	N-CA	-5.04	1.36	1.46

All (249) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2738	HIS	C-N-CD	11.36	152.25	128.40
1	A	2738	HIS	C-N-CD	11.35	152.24	128.40
1	C	2738	HIS	C-N-CD	11.35	152.23	128.40
1	D	2738	HIS	C-N-CD	11.34	152.21	128.40
1	D	2584	LEU	CA-CB-CG	-11.29	89.33	115.30
1	A	2584	LEU	CA-CB-CG	-11.28	89.36	115.30
1	B	2584	LEU	CA-CB-CG	-11.28	89.36	115.30
1	C	2584	LEU	CA-CB-CG	-11.26	89.41	115.30
1	C	2225	LEU	CA-CB-CG	10.54	139.54	115.30
1	D	2225	LEU	CA-CB-CG	10.53	139.52	115.30
1	A	2225	LEU	CA-CB-CG	10.52	139.50	115.30
1	B	2225	LEU	CA-CB-CG	10.52	139.50	115.30
1	C	2531	LEU	CA-CB-CG	10.36	139.14	115.30
1	A	2531	LEU	CA-CB-CG	10.34	139.08	115.30
1	B	2531	LEU	CA-CB-CG	10.34	139.08	115.30
1	D	2531	LEU	CA-CB-CG	10.33	139.07	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	647	VAL	N-CA-C	-9.68	84.86	111.00
1	D	647	VAL	N-CA-C	-9.68	84.86	111.00
1	A	647	VAL	N-CA-C	-9.68	84.86	111.00
1	C	647	VAL	N-CA-C	-9.67	84.88	111.00
1	C	1389	LYS	N-CA-C	9.12	135.64	111.00
1	D	1389	LYS	N-CA-C	9.12	135.64	111.00
1	A	1389	LYS	N-CA-C	9.12	135.62	111.00
1	D	2240	ILE	N-CA-C	9.11	135.60	111.00
1	B	1389	LYS	N-CA-C	9.10	135.57	111.00
1	A	2240	ILE	N-CA-C	9.10	135.56	111.00
1	C	2240	ILE	N-CA-C	9.09	135.55	111.00
1	B	2240	ILE	N-CA-C	9.09	135.53	111.00
1	B	2579	ILE	C-N-CA	-9.03	99.13	121.70
1	A	2579	ILE	C-N-CA	-9.02	99.15	121.70
1	C	2579	ILE	C-N-CA	-9.02	99.16	121.70
1	D	2579	ILE	C-N-CA	-9.01	99.18	121.70
1	B	1388	GLY	N-CA-C	8.97	135.53	113.10
1	D	1388	GLY	N-CA-C	8.97	135.52	113.10
1	A	1388	GLY	N-CA-C	8.97	135.51	113.10
1	C	1388	GLY	N-CA-C	8.96	135.50	113.10
1	C	2582	LEU	CA-CB-CG	-8.27	96.29	115.30
1	B	2582	LEU	CA-CB-CG	-8.26	96.29	115.30
1	A	2582	LEU	CA-CB-CG	-8.26	96.31	115.30
1	D	2582	LEU	CA-CB-CG	-8.25	96.32	115.30
1	D	1336	ASN	C-N-CA	8.21	142.22	121.70
1	B	1336	ASN	C-N-CA	8.21	142.21	121.70
1	A	1336	ASN	C-N-CA	8.20	142.21	121.70
1	C	1336	ASN	C-N-CA	8.20	142.21	121.70
1	B	2061	ASN	C-N-CA	-8.20	105.08	122.30
1	A	2061	ASN	C-N-CA	-8.18	105.11	122.30
1	C	2061	ASN	C-N-CA	-8.18	105.13	122.30
1	D	2061	ASN	C-N-CA	-8.17	105.15	122.30
1	A	628	PRO	N-CA-C	8.01	132.91	112.10
1	D	628	PRO	N-CA-C	8.01	132.91	112.10
1	C	628	PRO	N-CA-C	8.00	132.89	112.10
1	B	628	PRO	N-CA-C	8.00	132.89	112.10
1	D	2586	PHE	N-CA-CB	-7.93	96.32	110.60
1	A	2586	PHE	N-CA-CB	-7.91	96.37	110.60
1	C	2586	PHE	N-CA-CB	-7.90	96.38	110.60
1	B	2586	PHE	N-CA-CB	-7.90	96.38	110.60
1	C	78	PRO	CA-N-CD	-7.85	100.51	111.50
1	B	78	PRO	CA-N-CD	-7.83	100.55	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	78	PRO	CA-N-CD	-7.82	100.55	111.50
1	D	78	PRO	CA-N-CD	-7.80	100.58	111.50
1	C	2572	LEU	CA-CB-CG	-7.74	97.49	115.30
1	A	2572	LEU	CA-CB-CG	-7.74	97.50	115.30
1	D	2572	LEU	CA-CB-CG	-7.74	97.51	115.30
1	B	2559	GLU	N-CA-C	-7.73	90.12	111.00
1	B	2572	LEU	CA-CB-CG	-7.73	97.53	115.30
1	A	2559	GLU	N-CA-C	-7.72	90.16	111.00
1	C	2559	GLU	N-CA-C	-7.72	90.16	111.00
1	D	2738	HIS	C-N-CA	-7.71	89.61	122.00
1	D	2559	GLU	N-CA-C	-7.71	90.19	111.00
1	A	2738	HIS	C-N-CA	-7.70	89.65	122.00
1	B	2738	HIS	C-N-CA	-7.70	89.65	122.00
1	C	2738	HIS	C-N-CA	-7.70	89.68	122.00
1	D	2583	ASN	N-CA-CB	7.56	124.22	110.60
1	A	2583	ASN	N-CA-CB	7.56	124.21	110.60
1	B	2583	ASN	N-CA-CB	7.55	124.19	110.60
1	C	1308	TYR	N-CA-C	7.54	131.37	111.00
1	D	1308	TYR	N-CA-C	7.54	131.35	111.00
1	A	1308	TYR	N-CA-C	7.54	131.35	111.00
1	C	2583	ASN	N-CA-CB	7.54	124.17	110.60
1	B	1308	TYR	N-CA-C	7.52	131.30	111.00
1	D	1505	ARG	N-CA-C	7.49	131.22	111.00
1	B	1505	ARG	N-CA-C	7.48	131.20	111.00
1	A	1505	ARG	N-CA-C	7.47	131.18	111.00
1	C	1505	ARG	N-CA-C	7.47	131.17	111.00
1	B	2027	GLU	C-N-CA	-7.27	103.52	121.70
1	A	2027	GLU	C-N-CA	-7.25	103.58	121.70
1	C	2027	GLU	C-N-CA	-7.24	103.61	121.70
1	D	2027	GLU	C-N-CA	-7.23	103.62	121.70
1	A	2291	VAL	CB-CA-C	-6.93	98.24	111.40
1	C	2291	VAL	CB-CA-C	-6.92	98.25	111.40
1	D	2291	VAL	CB-CA-C	-6.91	98.26	111.40
1	B	2291	VAL	CB-CA-C	-6.90	98.29	111.40
1	A	2626	VAL	CB-CA-C	-6.78	98.52	111.40
1	C	2626	VAL	CB-CA-C	-6.78	98.52	111.40
1	D	2551	ASP	CB-CG-OD1	6.77	124.39	118.30
1	B	2626	VAL	CB-CA-C	-6.76	98.55	111.40
1	D	2626	VAL	CB-CA-C	-6.74	98.59	111.40
1	B	2551	ASP	CB-CG-OD1	6.74	124.37	118.30
1	A	2551	ASP	CB-CG-OD1	6.74	124.36	118.30
1	C	2551	ASP	CB-CG-OD1	6.72	124.35	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2679	ARG	CG-CD-NE	6.64	125.73	111.80
1	C	2679	ARG	CG-CD-NE	6.63	125.73	111.80
1	D	2679	ARG	CG-CD-NE	6.63	125.72	111.80
1	B	2679	ARG	CG-CD-NE	6.62	125.69	111.80
1	A	526	PRO	CA-N-CD	-6.61	102.24	111.50
1	C	526	PRO	CA-N-CD	-6.61	102.25	111.50
1	D	526	PRO	CA-N-CD	-6.61	102.25	111.50
1	B	526	PRO	CA-N-CD	-6.60	102.25	111.50
1	A	83	THR	C-N-CA	-6.56	105.30	121.70
1	B	83	THR	C-N-CA	-6.56	105.30	121.70
1	D	83	THR	C-N-CA	-6.56	105.30	121.70
1	C	83	THR	C-N-CA	-6.56	105.31	121.70
1	A	887	LEU	C-N-CA	-6.47	105.52	121.70
1	C	887	LEU	C-N-CA	-6.46	105.54	121.70
1	D	887	LEU	C-N-CA	-6.46	105.55	121.70
1	B	887	LEU	C-N-CA	-6.45	105.57	121.70
1	C	2679	ARG	NE-CZ-NH2	6.44	123.52	120.30
1	C	84	THR	N-CA-C	-6.43	93.65	111.00
1	B	84	THR	N-CA-C	-6.43	93.65	111.00
1	A	2679	ARG	NE-CZ-NH2	6.42	123.51	120.30
1	A	84	THR	N-CA-C	-6.42	93.67	111.00
1	D	84	THR	N-CA-C	-6.42	93.67	111.00
1	B	2679	ARG	NE-CZ-NH2	6.42	123.51	120.30
1	D	2679	ARG	NE-CZ-NH2	6.35	123.48	120.30
1	C	1666	GLU	C-N-CA	-6.28	106.01	121.70
1	A	1666	GLU	C-N-CA	-6.27	106.02	121.70
1	B	1666	GLU	C-N-CA	-6.27	106.03	121.70
1	D	1666	GLU	C-N-CA	-6.27	106.03	121.70
1	B	2531	LEU	CB-CG-CD2	6.18	121.51	111.00
1	D	887	LEU	N-CA-C	-6.18	94.31	111.00
1	D	2531	LEU	CB-CG-CD2	6.18	121.50	111.00
1	A	2531	LEU	CB-CG-CD2	6.18	121.50	111.00
1	C	887	LEU	N-CA-C	-6.17	94.35	111.00
1	A	887	LEU	N-CA-C	-6.17	94.35	111.00
1	B	887	LEU	N-CA-C	-6.16	94.36	111.00
1	C	2531	LEU	CB-CG-CD2	6.15	121.45	111.00
1	B	1991	GLN	CA-C-N	-6.14	103.69	117.20
1	C	1991	GLN	CA-C-N	-6.13	103.71	117.20
1	D	2571	LEU	CA-CB-CG	6.13	129.40	115.30
1	C	2571	LEU	CA-CB-CG	6.13	129.39	115.30
1	D	1991	GLN	CA-C-N	-6.13	103.72	117.20
1	A	1991	GLN	CA-C-N	-6.12	103.72	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2571	LEU	CA-CB-CG	6.12	129.38	115.30
1	B	2571	LEU	CA-CB-CG	6.11	129.35	115.30
1	C	877	GLY	N-CA-C	6.07	128.28	113.10
1	D	877	GLY	N-CA-C	6.07	128.28	113.10
1	A	877	GLY	N-CA-C	6.07	128.26	113.10
1	B	877	GLY	N-CA-C	6.06	128.24	113.10
1	D	823	GLY	N-CA-C	-5.98	98.15	113.10
1	B	823	GLY	N-CA-C	-5.98	98.16	113.10
1	A	823	GLY	N-CA-C	-5.96	98.19	113.10
1	C	823	GLY	N-CA-C	-5.96	98.20	113.10
1	B	2398	TYR	CA-CB-CG	-5.95	102.10	113.40
1	A	2398	TYR	CA-CB-CG	-5.94	102.12	113.40
1	C	2539	LEU	CB-CG-CD2	-5.93	100.92	111.00
1	B	2539	LEU	CB-CG-CD2	-5.92	100.93	111.00
1	C	2398	TYR	CA-CB-CG	-5.92	102.15	113.40
1	A	2539	LEU	CB-CG-CD2	-5.92	100.94	111.00
1	D	2398	TYR	CA-CB-CG	-5.92	102.15	113.40
1	D	2539	LEU	CB-CG-CD2	-5.91	100.95	111.00
1	B	1387	GLU	N-CA-C	5.91	126.95	111.00
1	A	1387	GLU	N-CA-C	5.90	126.92	111.00
1	C	1387	GLU	N-CA-C	5.90	126.92	111.00
1	D	1387	GLU	N-CA-C	5.90	126.92	111.00
1	B	2694	GLU	N-CA-C	5.87	126.83	111.00
1	B	1056	GLY	N-CA-C	5.86	127.75	113.10
1	D	1056	GLY	N-CA-C	5.86	127.75	113.10
1	A	2694	GLU	N-CA-C	5.85	126.81	111.00
1	C	1056	GLY	N-CA-C	5.85	127.73	113.10
1	A	1056	GLY	N-CA-C	5.85	127.73	113.10
1	D	2694	GLU	N-CA-C	5.85	126.80	111.00
1	C	2694	GLU	N-CA-C	5.85	126.80	111.00
1	D	1411	THR	N-CA-C	5.81	126.68	111.00
1	A	1411	THR	N-CA-C	5.80	126.66	111.00
1	B	1411	THR	N-CA-C	5.80	126.66	111.00
1	B	2618	ARG	N-CA-C	5.80	126.65	111.00
1	D	2618	ARG	N-CA-C	5.80	126.66	111.00
1	C	1411	THR	N-CA-C	5.80	126.65	111.00
1	A	2618	ARG	N-CA-C	5.79	126.63	111.00
1	C	2618	ARG	N-CA-C	5.78	126.60	111.00
1	D	1619	VAL	N-CA-C	5.74	126.49	111.00
1	A	1619	VAL	N-CA-C	5.73	126.48	111.00
1	B	1619	VAL	N-CA-C	5.73	126.47	111.00
1	D	2350	LEU	N-CA-C	-5.73	95.53	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2350	LEU	N-CA-C	-5.73	95.54	111.00
1	C	2350	LEU	N-CA-C	-5.72	95.55	111.00
1	B	2350	LEU	N-CA-C	-5.72	95.55	111.00
1	C	270	GLN	C-N-CA	-5.72	107.41	121.70
1	C	1619	VAL	N-CA-C	5.71	126.43	111.00
1	A	270	GLN	C-N-CA	-5.71	107.42	121.70
1	D	270	GLN	C-N-CA	-5.71	107.44	121.70
1	B	270	GLN	C-N-CA	-5.70	107.45	121.70
1	C	525	ALA	C-N-CD	-5.65	108.17	120.60
1	B	525	ALA	C-N-CD	-5.65	108.17	120.60
1	A	525	ALA	C-N-CD	-5.64	108.19	120.60
1	D	525	ALA	C-N-CD	-5.64	108.19	120.60
1	A	1201	GLN	C-N-CA	-5.61	107.67	121.70
1	C	1201	GLN	C-N-CA	-5.61	107.67	121.70
1	B	1201	GLN	C-N-CA	-5.60	107.69	121.70
1	D	1201	GLN	C-N-CA	-5.60	107.69	121.70
1	B	611	THR	N-CA-C	-5.52	96.10	111.00
1	A	611	THR	N-CA-C	-5.51	96.11	111.00
1	C	611	THR	N-CA-C	-5.51	96.13	111.00
1	D	611	THR	N-CA-C	-5.50	96.16	111.00
1	B	512	GLU	N-CA-C	5.45	125.72	111.00
1	A	512	GLU	N-CA-C	5.44	125.69	111.00
1	C	512	GLU	N-CA-C	5.44	125.69	111.00
1	D	512	GLU	N-CA-C	5.43	125.65	111.00
1	B	2421	VAL	CB-CA-C	5.34	121.55	111.40
1	A	2421	VAL	CB-CA-C	5.33	121.52	111.40
1	C	88	LEU	CA-CB-CG	5.33	127.55	115.30
1	A	88	LEU	CA-CB-CG	5.32	127.54	115.30
1	D	2421	VAL	CB-CA-C	5.32	121.51	111.40
1	D	88	LEU	CA-CB-CG	5.32	127.53	115.30
1	B	88	LEU	CA-CB-CG	5.31	127.52	115.30
1	C	2421	VAL	CB-CA-C	5.31	121.48	111.40
1	B	2239	LYS	CD-CE-NZ	-5.28	99.56	111.70
1	C	1441	ILE	C-N-CA	-5.28	108.50	121.70
1	A	1441	ILE	C-N-CA	-5.27	108.53	121.70
1	B	1441	ILE	C-N-CA	-5.27	108.53	121.70
1	D	1441	ILE	C-N-CA	-5.26	108.55	121.70
1	D	2239	LYS	CD-CE-NZ	-5.26	99.61	111.70
1	A	2239	LYS	CD-CE-NZ	-5.25	99.61	111.70
1	C	2239	LYS	CD-CE-NZ	-5.25	99.63	111.70
1	A	2360	PHE	N-CA-CB	5.18	119.93	110.60
1	D	2360	PHE	N-CA-CB	5.18	119.92	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2360	PHE	N-CA-CB	5.17	119.92	110.60
1	B	2360	PHE	N-CA-CB	5.17	119.91	110.60
1	D	380	SER	C-N-CA	-5.14	108.85	121.70
1	C	380	SER	C-N-CA	-5.12	108.89	121.70
1	B	380	SER	C-N-CA	-5.12	108.90	121.70
1	A	380	SER	C-N-CA	-5.12	108.90	121.70
1	C	106	GLU	CB-CA-C	-5.07	100.26	110.40
1	D	106	GLU	CB-CA-C	-5.07	100.26	110.40
1	A	106	GLU	CB-CA-C	-5.06	100.27	110.40
1	B	106	GLU	CB-CA-C	-5.05	100.29	110.40
1	D	2713	SER	N-CA-C	5.04	124.61	111.00
1	A	2713	SER	N-CA-C	5.04	124.61	111.00
1	B	2713	SER	N-CA-C	5.04	124.60	111.00
1	C	2713	SER	N-CA-C	5.03	124.59	111.00
1	C	2695	LEU	N-CA-C	5.02	124.54	111.00
1	D	2571	LEU	CB-CG-CD1	5.01	119.53	111.00
1	B	2695	LEU	N-CA-C	5.01	124.53	111.00
1	A	2695	LEU	N-CA-C	5.01	124.53	111.00
1	D	998	LYS	C-N-CA	-5.01	109.18	121.70
1	D	2695	LEU	N-CA-C	5.01	124.52	111.00
1	A	998	LYS	C-N-CA	-5.00	109.19	121.70
1	A	2571	LEU	CB-CG-CD1	5.00	119.50	111.00
1	C	2571	LEU	CB-CG-CD1	5.00	119.51	111.00

There are no chirality outliers.

All (68) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1323	ILE	Mainchain
1	A	1650	GLY	Peptide
1	A	1667	ASN	Peptide
1	A	1991	GLN	Mainchain
1	A	2181	ASP	Mainchain
1	A	2408	VAL	Peptide
1	A	2409	HIS	Peptide
1	A	2410	GLU	Peptide
1	A	2423	ARG	Mainchain
1	A	2425	GLU	Mainchain
1	A	2529	GLU	Peptide
1	A	2612	PHE	Peptide
1	A	2674	TRP	Peptide
1	A	319	ASP	Peptide

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Mol	Chain	Res	Type	Group
1	A	501	LYS	Peptide
1	A	514	ASN	Mainchain
1	A	84	THR	Mainchain
1	B	1323	ILE	Mainchain
1	B	1650	GLY	Peptide
1	B	1667	ASN	Peptide
1	B	1991	GLN	Mainchain
1	B	2181	ASP	Mainchain
1	B	2408	VAL	Peptide
1	B	2409	HIS	Peptide
1	B	2410	GLU	Peptide
1	B	2423	ARG	Mainchain
1	B	2425	GLU	Mainchain
1	B	2529	GLU	Peptide
1	B	2612	PHE	Peptide
1	B	2674	TRP	Peptide
1	B	319	ASP	Peptide
1	B	501	LYS	Peptide
1	B	514	ASN	Mainchain
1	B	84	THR	Mainchain
1	C	1323	ILE	Mainchain
1	C	1650	GLY	Peptide
1	C	1667	ASN	Peptide
1	C	1991	GLN	Mainchain
1	C	2181	ASP	Mainchain
1	C	2408	VAL	Peptide
1	C	2409	HIS	Peptide
1	C	2410	GLU	Peptide
1	C	2423	ARG	Mainchain
1	C	2425	GLU	Mainchain
1	C	2529	GLU	Peptide
1	C	2612	PHE	Peptide
1	C	2674	TRP	Peptide
1	C	319	ASP	Peptide
1	C	501	LYS	Peptide
1	C	514	ASN	Mainchain
1	C	84	THR	Mainchain
1	D	1323	ILE	Mainchain
1	D	1650	GLY	Peptide
1	D	1667	ASN	Peptide
1	D	1991	GLN	Mainchain
1	D	2181	ASP	Mainchain

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Mol	Chain	Res	Type	Group
1	D	2408	VAL	Peptide
1	D	2409	HIS	Peptide
1	D	2410	GLU	Peptide
1	D	2423	ARG	Mainchain
1	D	2425	GLU	Mainchain
1	D	2529	GLU	Peptide
1	D	2612	PHE	Peptide
1	D	2674	TRP	Peptide
1	D	319	ASP	Peptide
1	D	501	LYS	Peptide
1	D	514	ASN	Mainchain
1	D	84	THR	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	A	12499	0	8930	1716	0
1	B	12499	0	8931	1719	0
1	C	12499	0	8931	1699	0
1	D	12499	0	8930	1704	0
2	A	42	5	0	26	0
2	B	42	5	0	25	0
2	C	42	5	0	25	0
2	D	42	5	0	26	0
All	All	50164	20	35722	6549	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 76.

All (6549) 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)
1:B:2243:PHE:CE1	1:B:2642:LEU:HD11	1.23	1.63
1:D:2243:PHE:CE1	1:D:2642:LEU:HD11	1.23	1.63
1:A:2700:GLU:CG	1:B:2702:LEU:HD12	1.17	1.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2696:ARG:HH12	1:D:2696:ARG:CZ	1.09	1.62
1:A:275:ALA:HB2	2:A:2801:JYP:C5	1.15	1.62
1:C:646:PRO:CA	1:C:649:GLN:H	1.13	1.61
1:D:275:ALA:HB2	2:D:2801:JYP:C5	1.15	1.61
1:B:646:PRO:CA	1:B:649:GLN:H	1.13	1.61
1:B:2213:PRO:CD	1:B:2647:LEU:HB2	1.20	1.61
1:A:2213:PRO:CD	1:A:2647:LEU:HB2	1.20	1.61
1:A:2243:PHE:CE1	1:A:2642:LEU:HD11	1.23	1.61
1:A:2700:GLU:CG	1:B:2702:LEU:CD1	1.79	1.60
1:D:2213:PRO:CD	1:D:2647:LEU:HB2	1.20	1.59
1:D:2433:SER:CB	1:D:2593:PHE:CZ	1.86	1.59
1:C:275:ALA:HB2	2:C:2801:JYP:C5	1.15	1.58
1:C:2213:PRO:CD	1:C:2647:LEU:HB2	1.20	1.58
1:C:2243:PHE:CE1	1:C:2642:LEU:HD11	1.23	1.58
1:B:275:ALA:HB2	2:B:2801:JYP:C5	1.15	1.58
1:B:2433:SER:CB	1:B:2593:PHE:CZ	1.86	1.57
1:C:2433:SER:CB	1:C:2593:PHE:CZ	1.86	1.57
1:B:2243:PHE:HE1	1:B:2642:LEU:CD1	1.08	1.57
1:D:646:PRO:CA	1:D:649:GLN:H	1.13	1.57
1:A:2433:SER:CB	1:A:2593:PHE:CZ	1.86	1.56
1:A:646:PRO:CA	1:A:649:GLN:H	1.13	1.56
1:A:2243:PHE:HE1	1:A:2642:LEU:CD1	1.08	1.56
1:C:2243:PHE:HE1	1:C:2642:LEU:CD1	1.08	1.56
1:D:2243:PHE:HE1	1:D:2642:LEU:CD1	1.08	1.55
1:D:2637:ASN:ND2	1:D:2640:HIS:CD2	1.74	1.55
1:C:89:LEU:CA	1:C:92:LEU:CD2	1.82	1.55
1:B:89:LEU:CA	1:B:92:LEU:CD2	1.82	1.55
1:D:89:LEU:CA	1:D:92:LEU:CD2	1.82	1.55
1:A:89:LEU:CA	1:A:92:LEU:CD2	1.82	1.54
1:C:2637:ASN:ND2	1:C:2640:HIS:CD2	1.75	1.53
1:B:547:ALA:HB1	1:B:548:PRO:CD	1.34	1.52
1:D:547:ALA:HB1	1:D:548:PRO:CD	1.34	1.52
1:B:2637:ASN:ND2	1:B:2640:HIS:CD2	1.74	1.52
1:C:2696:ARG:HH12	1:B:2696:ARG:CZ	1.23	1.51
1:A:2637:ASN:ND2	1:A:2640:HIS:CD2	1.75	1.50
1:C:69:GLN:NE2	1:C:100:LYS:HD2	1.27	1.50
1:A:2433:SER:CB	1:A:2593:PHE:CE2	1.95	1.49
1:C:2345:ILE:CD1	1:C:2356:LEU:HD21	1.41	1.49
1:B:2433:SER:CB	1:B:2593:PHE:CE2	1.95	1.49
1:D:2433:SER:OG	1:D:2593:PHE:CE2	1.66	1.49
1:D:2345:ILE:CD1	1:D:2356:LEU:HD21	1.41	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2433:SER:OG	1:C:2593:PHE:CE2	1.66	1.48
1:C:2710:THR:CB	1:B:2707:LYS:NZ	1.72	1.48
1:B:646:PRO:CA	1:B:649:GLN:N	1.77	1.48
1:D:69:GLN:NE2	1:D:100:LYS:HD2	1.27	1.48
1:C:547:ALA:HB1	1:C:548:PRO:CD	1.34	1.47
1:A:2401:ILE:CG2	1:A:2416:LEU:HD13	1.45	1.47
1:A:2433:SER:OG	1:A:2593:PHE:CE2	1.66	1.47
1:D:2433:SER:CB	1:D:2593:PHE:CE2	1.95	1.47
1:B:2401:ILE:CG2	1:B:2416:LEU:HD13	1.45	1.47
1:A:2345:ILE:CD1	1:A:2356:LEU:HD21	1.41	1.47
1:C:2401:ILE:CG1	1:C:2416:LEU:HD22	1.45	1.47
1:A:2368:PHE:HE2	1:A:2395:HIS:CG	1.33	1.46
1:B:2345:ILE:CD1	1:B:2356:LEU:HD21	1.41	1.46
1:C:646:PRO:CA	1:C:649:GLN:N	1.77	1.46
1:C:2433:SER:CB	1:C:2593:PHE:CE2	1.95	1.46
1:B:69:GLN:NE2	1:B:100:LYS:HD2	1.27	1.46
1:D:2401:ILE:CG1	1:D:2416:LEU:HD22	1.45	1.46
1:A:69:GLN:NE2	1:A:100:LYS:HD2	1.27	1.45
1:B:2654:THR:O	1:B:2657:THR:CG2	1.63	1.45
1:A:547:ALA:HB1	1:A:548:PRO:CD	1.34	1.45
1:D:2343:ARG:O	1:D:2346:PHE:CD2	1.70	1.45
1:C:2626:VAL:CG1	1:C:2627:THR:H	1.13	1.44
1:A:2654:THR:O	1:A:2657:THR:CG2	1.63	1.44
1:D:2368:PHE:HE2	1:D:2395:HIS:CG	1.33	1.44
1:B:2433:SER:OG	1:B:2593:PHE:CE2	1.66	1.44
1:D:2401:ILE:CG2	1:D:2416:LEU:HD13	1.45	1.44
1:A:547:ALA:CB	1:A:548:PRO:HD2	1.42	1.44
1:A:2362:VAL:HA	1:A:2402:CYS:SG	1.58	1.44
1:C:2343:ARG:O	1:C:2346:PHE:CD2	1.70	1.44
1:B:2401:ILE:CG1	1:B:2416:LEU:HD22	1.45	1.44
1:A:2401:ILE:CG1	1:A:2416:LEU:HD22	1.45	1.44
1:C:2654:THR:O	1:C:2657:THR:CG2	1.63	1.44
1:B:2343:ARG:O	1:B:2346:PHE:CD2	1.70	1.44
1:B:2362:VAL:HA	1:B:2402:CYS:SG	1.58	1.44
1:B:2368:PHE:HE2	1:B:2395:HIS:CG	1.33	1.43
1:B:2433:SER:OG	1:B:2593:PHE:CZ	1.69	1.43
1:D:2654:THR:O	1:D:2657:THR:CG2	1.63	1.43
1:B:2403:ALA:O	1:B:2408:VAL:CG2	1.66	1.43
1:A:2696:ARG:NH1	1:D:2696:ARG:CZ	1.79	1.43
1:A:2345:ILE:O	1:A:2348:VAL:CG1	1.66	1.43
1:C:2401:ILE:CG2	1:C:2416:LEU:HD13	1.45	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2626:VAL:CG1	1:D:2627:THR:H	1.13	1.43
1:A:2715:GLN:NE2	1:B:2713:SER:CB	1.78	1.42
1:C:2368:PHE:HE2	1:C:2395:HIS:CG	1.33	1.42
1:A:2401:ILE:HG21	1:A:2416:LEU:CD1	1.49	1.42
1:C:2362:VAL:HA	1:C:2402:CYS:SG	1.58	1.42
1:D:547:ALA:CB	1:D:548:PRO:HD2	1.42	1.42
1:D:2362:VAL:HA	1:D:2402:CYS:SG	1.58	1.42
1:A:2433:SER:OG	1:A:2593:PHE:CZ	1.69	1.42
1:C:2345:ILE:O	1:C:2348:VAL:CG1	1.66	1.42
1:A:2343:ARG:O	1:A:2346:PHE:CD2	1.70	1.42
1:D:646:PRO:CA	1:D:649:GLN:N	1.77	1.42
1:A:89:LEU:CA	1:A:92:LEU:HD23	1.46	1.41
1:B:2401:ILE:HG21	1:B:2416:LEU:CD1	1.49	1.41
1:C:2401:ILE:HG21	1:C:2416:LEU:CD1	1.49	1.41
1:B:547:ALA:CB	1:B:548:PRO:HD2	1.42	1.41
1:D:2345:ILE:O	1:D:2348:VAL:CG1	1.66	1.41
1:C:2403:ALA:O	1:C:2408:VAL:CG2	1.66	1.41
1:A:2706:MET:CG	1:D:2703:GLU:OE2	1.69	1.41
1:C:2696:ARG:HH12	1:B:2696:ARG:NH2	1.15	1.41
1:B:2345:ILE:O	1:B:2348:VAL:CG1	1.66	1.41
1:B:2622:ASP:OD2	1:B:2628:PHE:CE2	1.74	1.41
1:C:89:LEU:C	1:C:92:LEU:CD2	1.88	1.40
1:C:547:ALA:CB	1:C:548:PRO:HD2	1.42	1.40
1:C:2622:ASP:OD2	1:C:2628:PHE:CE2	1.74	1.40
1:A:646:PRO:CA	1:A:649:GLN:N	1.77	1.40
1:A:2403:ALA:O	1:A:2408:VAL:CG2	1.66	1.40
1:A:2702:LEU:CD1	1:D:2700:GLU:CG	1.88	1.40
1:D:2403:ALA:O	1:D:2408:VAL:CG2	1.66	1.40
1:D:2433:SER:OG	1:D:2593:PHE:CZ	1.69	1.40
1:C:2715:GLN:NE2	1:D:2713:SER:HB2	1.30	1.40
1:A:2696:ARG:HH12	1:D:2696:ARG:NH2	1.11	1.40
1:D:89:LEU:C	1:D:92:LEU:CD2	1.88	1.40
1:A:2622:ASP:OD2	1:A:2628:PHE:CE2	1.74	1.39
1:D:2401:ILE:HG21	1:D:2416:LEU:CD1	1.49	1.39
1:D:2622:ASP:OD2	1:D:2628:PHE:CE2	1.74	1.39
1:C:89:LEU:CA	1:C:92:LEU:HD23	1.46	1.39
1:C:2433:SER:OG	1:C:2593:PHE:CZ	1.69	1.39
1:D:2612:PHE:CZ	1:D:2638:MET:SD	2.16	1.39
1:A:89:LEU:C	1:A:92:LEU:CD2	1.88	1.39
1:B:2213:PRO:HG3	1:B:2647:LEU:CD1	1.53	1.38
1:B:2612:PHE:CZ	1:B:2638:MET:SD	2.16	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2348:VAL:CB	1:C:2353:THR:HB	1.54	1.38
1:C:2612:PHE:CZ	1:C:2638:MET:SD	2.16	1.38
1:D:2348:VAL:CB	1:D:2353:THR:HB	1.54	1.38
1:A:2612:PHE:CZ	1:A:2638:MET:SD	2.16	1.38
1:B:89:LEU:C	1:B:92:LEU:CD2	1.88	1.38
1:A:2626:VAL:CG1	1:A:2627:THR:H	1.13	1.37
1:B:2213:PRO:HD3	1:B:2647:LEU:CB	1.54	1.37
1:D:2213:PRO:HD3	1:D:2647:LEU:CB	1.54	1.37
1:A:300:ASN:OD1	1:D:2730:LYS:HG2	1.19	1.37
1:C:2213:PRO:HD3	1:C:2647:LEU:CB	1.54	1.37
1:C:2213:PRO:HG3	1:C:2647:LEU:CD1	1.53	1.37
1:A:2715:GLN:NE2	1:B:2713:SER:HB2	1.15	1.37
1:A:2213:PRO:HD3	1:A:2647:LEU:CB	1.54	1.36
1:C:270:GLN:NE2	1:C:271:SER:H	1.22	1.36
1:B:2626:VAL:CG1	1:B:2627:THR:H	1.13	1.36
1:A:2213:PRO:HG3	1:A:2647:LEU:CD1	1.53	1.36
1:D:270:GLN:NE2	1:D:271:SER:H	1.22	1.36
1:C:2715:GLN:NE2	1:D:2713:SER:CB	1.89	1.35
1:A:2348:VAL:CB	1:A:2353:THR:HB	1.54	1.35
1:B:2348:VAL:CB	1:B:2353:THR:HB	1.54	1.34
1:B:2429:ASN:OD1	1:B:2432:LYS:NZ	1.59	1.34
1:D:89:LEU:CA	1:D:92:LEU:HD23	1.46	1.34
1:D:2213:PRO:HG3	1:D:2647:LEU:CD1	1.54	1.34
1:A:2348:VAL:CG1	1:A:2353:THR:CB	2.06	1.34
1:B:1245:CYS:O	1:B:1247:GLY:N	1.61	1.34
1:A:2429:ASN:OD1	1:A:2432:LYS:NZ	1.59	1.34
1:C:2368:PHE:CE2	1:C:2395:HIS:CG	2.16	1.33
1:B:2348:VAL:CG1	1:B:2353:THR:CB	2.06	1.33
1:C:1072:TYR:O	1:C:1076:VAL:N	1.62	1.33
1:A:2368:PHE:CE2	1:A:2395:HIS:CD2	2.17	1.33
1:C:2348:VAL:CG1	1:C:2353:THR:CB	2.06	1.33
1:C:2649:LYS:O	1:C:2650:VAL:HG13	1.20	1.33
1:B:270:GLN:NE2	1:B:271:SER:H	1.22	1.33
1:B:2649:LYS:O	1:B:2650:VAL:HG13	1.20	1.33
1:D:2368:PHE:CE2	1:D:2395:HIS:CG	2.16	1.33
1:A:2583:ASN:HB3	1:B:2586:PHE:CE1	1.63	1.33
1:C:2649:LYS:O	1:C:2650:VAL:CG1	1.77	1.33
1:B:2368:PHE:CE2	1:B:2395:HIS:CD2	2.17	1.33
1:D:2368:PHE:CE2	1:D:2395:HIS:CD2	2.17	1.33
1:A:270:GLN:NE2	1:A:271:SER:H	1.22	1.32
1:C:2368:PHE:CE2	1:C:2395:HIS:CD2	2.17	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2706:MET:CG	1:B:2703:GLU:OE2	1.76	1.32
1:B:2649:LYS:O	1:B:2650:VAL:CG1	1.77	1.32
1:C:2429:ASN:OD1	1:C:2432:LYS:NZ	1.59	1.32
1:D:2348:VAL:CG1	1:D:2353:THR:CB	2.06	1.32
1:D:2348:VAL:HB	1:D:2353:THR:CB	1.60	1.32
1:D:2683:LEU:O	1:D:2684:VAL:HG22	1.30	1.32
1:B:2401:ILE:HG12	1:B:2416:LEU:CD2	1.60	1.32
1:A:2401:ILE:HG12	1:A:2416:LEU:CD2	1.60	1.32
1:C:1245:CYS:O	1:C:1247:GLY:N	1.61	1.31
1:D:510:MET:O	1:D:515:ILE:HB	1.30	1.31
1:A:2576:MET:CE	1:A:2580:ILE:HG13	1.61	1.31
1:B:2348:VAL:HB	1:B:2353:THR:CB	1.60	1.31
1:B:2368:PHE:CE2	1:B:2395:HIS:CG	2.16	1.31
1:D:2345:ILE:CD1	1:D:2356:LEU:CD2	2.08	1.31
1:D:2649:LYS:O	1:D:2650:VAL:CG1	1.77	1.31
1:C:510:MET:O	1:C:515:ILE:HB	1.30	1.31
1:C:2558:LYS:HD2	1:C:2560:GLU:OE2	1.24	1.31
1:D:573:TYR:O	1:D:577:GLN:HG3	1.24	1.31
1:D:1072:TYR:O	1:D:1076:VAL:N	1.62	1.31
1:D:1245:CYS:O	1:D:1247:GLY:N	1.61	1.31
1:D:2271:ARG:NH1	1:D:2272:ASN:ND2	1.77	1.31
1:A:2348:VAL:HB	1:A:2353:THR:CB	1.60	1.31
1:A:2368:PHE:CE2	1:A:2395:HIS:CG	2.16	1.31
1:C:2345:ILE:CD1	1:C:2356:LEU:CD2	2.08	1.31
1:B:2637:ASN:CG	1:B:2640:HIS:CD2	2.03	1.31
1:D:2429:ASN:OD1	1:D:2432:LYS:NZ	1.59	1.31
1:A:2243:PHE:CZ	1:A:2638:MET:HB3	1.66	1.30
1:A:2649:LYS:O	1:A:2650:VAL:CG1	1.77	1.30
1:B:89:LEU:CA	1:B:92:LEU:HD23	1.46	1.30
1:C:2213:PRO:CG	1:C:2647:LEU:HA	1.62	1.30
1:C:2348:VAL:HB	1:C:2353:THR:CB	1.59	1.30
1:A:1072:TYR:O	1:A:1076:VAL:N	1.62	1.30
1:A:2345:ILE:CD1	1:A:2356:LEU:CD2	2.08	1.30
1:B:1072:TYR:O	1:B:1076:VAL:N	1.62	1.30
1:C:886:ARG:O	1:C:890:ILE:N	1.65	1.30
1:D:2211:PRO:O	1:D:2647:LEU:HD22	1.31	1.30
1:C:2271:ARG:NH1	1:C:2272:ASN:ND2	1.77	1.30
1:C:2401:ILE:HG12	1:C:2416:LEU:CD2	1.60	1.30
1:B:2576:MET:CE	1:B:2580:ILE:HG13	1.60	1.30
1:A:72:PHE:CD1	1:A:93:HIS:HB2	1.67	1.29
1:A:886:ARG:O	1:A:890:ILE:N	1.65	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2243:PHE:CZ	1:B:2638:MET:HB3	1.66	1.29
1:D:2401:ILE:HG12	1:D:2416:LEU:CD2	1.60	1.29
1:D:2637:ASN:CG	1:D:2640:HIS:CD2	2.03	1.29
1:A:1245:CYS:O	1:A:1247:GLY:N	1.61	1.29
1:C:2368:PHE:HZ	1:C:2395:HIS:NE2	1.29	1.29
1:B:573:TYR:O	1:B:577:GLN:HG3	1.24	1.29
1:B:2368:PHE:HZ	1:B:2395:HIS:NE2	1.29	1.29
1:A:2559:GLU:CD	1:A:2562:LEU:HD23	1.53	1.29
1:A:2683:LEU:O	1:A:2684:VAL:HG22	1.30	1.29
1:C:2559:GLU:CD	1:C:2562:LEU:HD23	1.53	1.29
1:C:2576:MET:CE	1:C:2580:ILE:HG13	1.61	1.29
1:B:886:ARG:O	1:B:890:ILE:N	1.65	1.29
1:B:2213:PRO:CG	1:B:2647:LEU:HA	1.62	1.29
1:D:2576:MET:CE	1:D:2580:ILE:HG13	1.61	1.29
1:A:2637:ASN:ND2	1:A:2640:HIS:NE2	1.80	1.29
1:B:2559:GLU:CD	1:B:2562:LEU:HD23	1.53	1.29
1:A:300:ASN:OD1	1:D:2730:LYS:CG	1.79	1.28
1:A:2637:ASN:CG	1:A:2640:HIS:CD2	2.03	1.28
1:A:2702:LEU:HD12	1:D:2700:GLU:CG	1.33	1.28
1:C:72:PHE:CD1	1:C:93:HIS:HB2	1.67	1.28
1:B:2271:ARG:NH1	1:B:2272:ASN:ND2	1.77	1.28
1:D:2243:PHE:CZ	1:D:2638:MET:HB3	1.66	1.28
1:D:2558:LYS:HD2	1:D:2560:GLU:OE2	1.24	1.28
1:B:510:MET:O	1:B:515:ILE:HB	1.30	1.28
1:B:2345:ILE:CD1	1:B:2356:LEU:CD2	2.08	1.28
1:D:2213:PRO:CG	1:D:2647:LEU:HA	1.62	1.28
1:A:2271:ARG:NH1	1:A:2272:ASN:ND2	1.77	1.28
1:A:2583:ASN:ND2	1:B:2586:PHE:HA	1.45	1.28
1:C:2696:ARG:NH1	1:B:2696:ARG:CZ	1.91	1.28
1:A:2583:ASN:CB	1:B:2586:PHE:CE1	2.17	1.28
1:D:69:GLN:N	1:D:100:LYS:NZ	1.80	1.28
1:D:72:PHE:CD1	1:D:93:HIS:HB2	1.67	1.28
1:D:886:ARG:O	1:D:890:ILE:N	1.65	1.28
1:D:2368:PHE:HZ	1:D:2395:HIS:NE2	1.29	1.28
1:A:2213:PRO:CG	1:A:2647:LEU:HA	1.62	1.27
1:C:1356:GLN:CA	1:C:1416:ILE:O	1.82	1.27
1:C:2211:PRO:O	1:C:2647:LEU:HD22	1.32	1.27
1:C:2243:PHE:CZ	1:C:2638:MET:HB3	1.66	1.27
1:C:2348:VAL:CB	1:C:2353:THR:CB	2.12	1.27
1:C:2368:PHE:CZ	1:C:2395:HIS:NE2	2.02	1.27
1:B:72:PHE:CD1	1:B:93:HIS:HB2	1.67	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2637:ASN:ND2	1:B:2640:HIS:NE2	1.80	1.27
1:D:2637:ASN:ND2	1:D:2640:HIS:NE2	1.80	1.27
1:A:510:MET:O	1:A:515:ILE:HB	1.30	1.27
1:A:1356:GLN:CA	1:A:1416:ILE:O	1.82	1.27
1:C:2683:LEU:O	1:C:2684:VAL:HG22	1.29	1.27
1:B:2622:ASP:CG	1:B:2628:PHE:CE2	2.08	1.27
1:A:2558:LYS:HD2	1:A:2560:GLU:OE2	1.24	1.27
1:C:567:TYR:CB	1:C:571:GLN:OE1	1.83	1.27
1:C:573:TYR:O	1:C:577:GLN:HG3	1.24	1.27
1:C:2637:ASN:ND2	1:C:2640:HIS:NE2	1.80	1.27
1:D:567:TYR:CB	1:D:571:GLN:OE1	1.83	1.27
1:A:275:ALA:CB	2:A:2801:JYP:C5	2.11	1.27
1:C:2622:ASP:CG	1:C:2628:PHE:CE2	2.08	1.27
1:B:2558:LYS:HD2	1:B:2560:GLU:OE2	1.24	1.27
1:B:2637:ASN:CG	1:B:2640:HIS:HD2	1.37	1.27
1:D:275:ALA:CB	2:D:2801:JYP:C5	2.11	1.27
1:A:573:TYR:O	1:A:577:GLN:HG3	1.24	1.27
1:A:2368:PHE:HZ	1:A:2395:HIS:NE2	1.29	1.27
1:D:2649:LYS:O	1:D:2650:VAL:HG13	1.20	1.27
1:A:2211:PRO:O	1:A:2647:LEU:HD22	1.31	1.26
1:B:567:TYR:CB	1:B:571:GLN:OE1	1.83	1.26
1:A:567:TYR:CB	1:A:571:GLN:OE1	1.83	1.26
1:A:2213:PRO:CD	1:A:2647:LEU:CB	2.12	1.26
1:C:69:GLN:N	1:C:100:LYS:NZ	1.80	1.26
1:C:2586:PHE:CE1	1:B:2583:ASN:HB3	1.69	1.26
1:B:2211:PRO:O	1:B:2647:LEU:HD22	1.31	1.26
1:D:2559:GLU:CD	1:D:2562:LEU:HD23	1.53	1.26
1:A:2285:VAL:CG2	1:A:2417:LEU:HD13	1.66	1.26
1:C:2637:ASN:CG	1:C:2640:HIS:CD2	2.03	1.26
1:B:69:GLN:N	1:B:100:LYS:NZ	1.80	1.26
1:B:275:ALA:CB	2:B:2801:JYP:C5	2.11	1.26
1:B:2368:PHE:CZ	1:B:2395:HIS:NE2	2.02	1.26
1:C:275:ALA:CB	2:C:2801:JYP:C5	2.11	1.26
1:A:69:GLN:N	1:A:100:LYS:NZ	1.80	1.26
1:D:2285:VAL:CG2	1:D:2417:LEU:HD13	1.66	1.26
1:D:2573:PHE:CE1	1:D:2577:VAL:HG21	1.69	1.26
1:A:2368:PHE:CZ	1:A:2395:HIS:NE2	2.02	1.25
1:A:2713:SER:CB	1:D:2715:GLN:NE2	1.98	1.25
1:C:2573:PHE:CE1	1:C:2577:VAL:HG21	1.70	1.25
1:B:1356:GLN:CA	1:B:1416:ILE:O	1.82	1.25
1:B:2573:PHE:CE1	1:B:2577:VAL:HG21	1.70	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1356:GLN:CA	1:D:1416:ILE:O	1.82	1.25
1:D:2401:ILE:CD1	1:D:2416:LEU:HD22	1.66	1.25
1:A:2583:ASN:HB3	1:B:2586:PHE:CD1	1.71	1.25
1:A:2573:PHE:CE1	1:A:2577:VAL:HG21	1.69	1.25
1:A:2700:GLU:OE1	1:B:2699:GLN:HA	1.36	1.25
1:C:2213:PRO:CD	1:C:2647:LEU:CB	2.12	1.25
1:C:2583:ASN:OD1	1:D:2589:ILE:HG21	1.27	1.25
1:C:300:ASN:OD1	1:B:2730:LYS:HG2	1.34	1.25
1:C:2210:PHE:CE2	1:C:2647:LEU:HD21	1.71	1.25
1:B:449:ALA:O	1:B:453:LEU:CG	1.85	1.25
1:D:69:GLN:HE21	1:D:100:LYS:CD	1.50	1.25
1:D:2210:PHE:CE2	1:D:2647:LEU:HD21	1.71	1.25
1:D:2622:ASP:CG	1:D:2628:PHE:CE2	2.08	1.25
1:A:449:ALA:O	1:A:453:LEU:CG	1.85	1.25
1:A:2715:GLN:OE1	1:A:2718:GLU:OE1	1.55	1.25
1:C:69:GLN:HE21	1:C:100:LYS:CD	1.50	1.25
1:D:2368:PHE:CZ	1:D:2395:HIS:NE2	2.02	1.25
1:A:69:GLN:HE21	1:A:100:LYS:CD	1.50	1.24
1:A:2583:ASN:OD1	1:B:2589:ILE:HG21	1.34	1.24
1:A:2622:ASP:CG	1:A:2628:PHE:CE2	2.08	1.24
1:A:2637:ASN:CG	1:A:2640:HIS:HD2	1.37	1.24
1:A:2649:LYS:O	1:A:2650:VAL:HG13	1.20	1.24
1:C:1248:ASN:CA	1:C:1252:GLN:CA	2.16	1.24
1:C:2211:PRO:O	1:C:2647:LEU:CD2	1.85	1.24
1:B:69:GLN:HE21	1:B:100:LYS:CD	1.50	1.24
1:B:1248:ASN:CA	1:B:1252:GLN:CA	2.16	1.24
1:B:2213:PRO:CD	1:B:2647:LEU:CB	2.12	1.24
1:D:2211:PRO:O	1:D:2647:LEU:CD2	1.85	1.24
1:A:2178:GLY:O	1:A:2186:LEU:HD11	1.06	1.24
1:C:2403:ALA:O	1:C:2408:VAL:HG21	1.17	1.24
1:C:2583:ASN:HB3	1:D:2586:PHE:CE1	1.72	1.24
1:B:2210:PHE:CE2	1:B:2647:LEU:HD21	1.71	1.24
1:C:2285:VAL:CG2	1:C:2417:LEU:HD13	1.66	1.24
1:B:2433:SER:HB2	1:B:2593:PHE:CE2	1.66	1.24
1:A:1248:ASN:CA	1:A:1252:GLN:CA	2.15	1.24
1:A:2210:PHE:CE2	1:A:2647:LEU:HD21	1.71	1.24
1:C:2178:GLY:O	1:C:2186:LEU:CD1	1.86	1.24
1:B:2683:LEU:O	1:B:2684:VAL:HG22	1.29	1.24
1:D:449:ALA:O	1:D:453:LEU:CG	1.85	1.24
1:A:270:GLN:N	2:A:2801:JYP:N2	1.67	1.23
1:A:2178:GLY:O	1:A:2186:LEU:CD1	1.86	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:514:ASN:ND2	1:C:517:LYS:CD	1.93	1.23
1:B:2401:ILE:CD1	1:B:2416:LEU:HD22	1.66	1.23
1:D:2178:GLY:O	1:D:2186:LEU:HD11	1.06	1.23
1:A:2677:ARG:HD3	1:B:2623:ASN:OD1	1.36	1.23
1:C:2213:PRO:CG	1:C:2647:LEU:CB	2.17	1.23
1:D:449:ALA:O	1:D:453:LEU:HG	1.08	1.23
1:D:2715:GLN:OE1	1:D:2718:GLU:OE1	1.55	1.23
1:A:2288:ASN:CB	1:A:2413:TYR:HB3	1.68	1.23
1:C:2401:ILE:CD1	1:C:2416:LEU:HD22	1.66	1.23
1:C:2586:PHE:CE1	1:B:2583:ASN:CB	2.21	1.23
1:C:2715:GLN:OE1	1:C:2718:GLU:OE1	1.55	1.23
1:B:2213:PRO:CG	1:B:2647:LEU:CB	2.17	1.23
1:B:2285:VAL:CG2	1:B:2417:LEU:HD13	1.66	1.23
1:A:2713:SER:HB2	1:D:2715:GLN:NE2	1.49	1.23
1:B:2288:ASN:CB	1:B:2413:TYR:HB3	1.68	1.23
1:A:2589:ILE:HG21	1:D:2583:ASN:OD1	1.37	1.23
1:B:2715:GLN:OE1	1:B:2718:GLU:OE1	1.55	1.23
1:D:2178:GLY:O	1:D:2186:LEU:CD1	1.86	1.23
1:D:2178:GLY:CA	1:D:2186:LEU:HD21	1.68	1.23
1:D:2213:PRO:CD	1:D:2647:LEU:CB	2.12	1.23
1:C:449:ALA:O	1:C:453:LEU:CG	1.85	1.22
1:C:1302:HIS:CA	1:B:144:LYS:CB	2.16	1.22
1:B:2178:GLY:O	1:B:2186:LEU:CD1	1.86	1.22
1:B:2348:VAL:CB	1:B:2353:THR:CB	2.12	1.22
1:D:1248:ASN:CA	1:D:1252:GLN:CA	2.16	1.22
1:A:2401:ILE:CD1	1:A:2416:LEU:HD22	1.66	1.22
1:C:449:ALA:O	1:C:453:LEU:HG	1.08	1.22
1:C:2178:GLY:O	1:C:2186:LEU:HD11	1.06	1.22
1:B:2211:PRO:O	1:B:2647:LEU:CD2	1.85	1.22
1:B:2559:GLU:OE1	1:B:2562:LEU:CD2	1.87	1.22
1:A:2559:GLU:OE1	1:A:2562:LEU:CD2	1.87	1.22
1:B:2178:GLY:O	1:B:2186:LEU:HD11	1.06	1.22
1:D:442:ASP:OD1	1:D:483:PHE:CE2	1.93	1.22
1:A:442:ASP:OD1	1:A:483:PHE:CE2	1.93	1.22
1:D:2348:VAL:CG2	1:D:2353:THR:HG21	1.70	1.22
1:A:449:ALA:O	1:A:453:LEU:HG	1.08	1.21
1:B:2178:GLY:CA	1:B:2186:LEU:HD21	1.68	1.21
1:D:2288:ASN:CB	1:D:2413:TYR:HB3	1.68	1.21
1:D:2622:ASP:OD1	1:D:2628:PHE:CE1	1.94	1.21
1:A:2213:PRO:CG	1:A:2647:LEU:CB	2.17	1.21
1:B:449:ALA:O	1:B:453:LEU:HG	1.08	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2559:GLU:OE1	1:D:2562:LEU:CD2	1.87	1.21
1:D:2637:ASN:CG	1:D:2640:HIS:HD2	1.37	1.21
1:A:2211:PRO:O	1:A:2647:LEU:CD2	1.85	1.21
1:C:2348:VAL:CG2	1:C:2353:THR:HG21	1.70	1.21
1:B:2348:VAL:CB	1:B:2353:THR:CG2	2.19	1.21
1:B:2348:VAL:CG2	1:B:2353:THR:HG21	1.70	1.21
1:A:2178:GLY:CA	1:A:2186:LEU:HD21	1.68	1.21
1:A:2622:ASP:OD1	1:A:2628:PHE:CE1	1.94	1.21
1:C:2622:ASP:OD1	1:C:2628:PHE:CE1	1.94	1.21
1:D:2213:PRO:CG	1:D:2647:LEU:CB	2.17	1.21
1:D:2348:VAL:CB	1:D:2353:THR:CG2	2.19	1.21
1:C:2348:VAL:CB	1:C:2353:THR:CG2	2.19	1.21
1:C:2559:GLU:OE1	1:C:2562:LEU:CD2	1.87	1.21
1:B:442:ASP:OD1	1:B:483:PHE:CE2	1.93	1.21
1:B:2559:GLU:CD	1:B:2562:LEU:CD2	2.09	1.21
1:C:270:GLN:NE2	1:C:271:SER:N	1.89	1.20
1:A:2559:GLU:CD	1:A:2562:LEU:CD2	2.09	1.20
1:C:2288:ASN:CB	1:C:2413:TYR:HB3	1.68	1.20
1:B:2243:PHE:CE1	1:B:2642:LEU:CD1	1.95	1.20
1:A:2348:VAL:CG2	1:A:2353:THR:HG21	1.70	1.20
1:C:2178:GLY:CA	1:C:2186:LEU:HD21	1.68	1.20
1:A:2348:VAL:CB	1:A:2353:THR:CG2	2.19	1.20
1:A:2700:GLU:HG2	1:B:2702:LEU:CD1	1.53	1.20
1:A:2700:GLU:CD	1:B:2702:LEU:HD12	1.47	1.20
1:C:442:ASP:OD1	1:C:483:PHE:CE2	1.93	1.20
1:C:2559:GLU:CD	1:C:2562:LEU:CD2	2.09	1.20
1:D:2348:VAL:CB	1:D:2353:THR:CB	2.12	1.20
1:D:2559:GLU:CD	1:D:2562:LEU:CD2	2.09	1.20
1:B:2622:ASP:OD1	1:B:2628:PHE:CE1	1.94	1.20
1:A:270:GLN:O	1:A:272:ALA:N	1.75	1.19
1:C:2637:ASN:CG	1:C:2640:HIS:HD2	1.37	1.19
1:D:2403:ALA:O	1:D:2408:VAL:HG21	1.16	1.19
1:A:2243:PHE:CE2	1:A:2638:MET:HB3	1.77	1.19
1:A:2433:SER:HB2	1:A:2593:PHE:CE2	1.66	1.19
1:C:2700:GLU:OE1	1:D:2699:GLN:HA	1.41	1.19
1:D:514:ASN:ND2	1:D:517:LYS:CD	1.93	1.19
1:D:514:ASN:ND2	1:D:517:LYS:HD2	1.21	1.19
1:C:2243:PHE:CE1	1:C:2642:LEU:CD1	1.95	1.19
1:C:2710:THR:CB	1:B:2707:LYS:HZ1	1.44	1.19
1:D:2359:ALA:O	1:D:2363:CYS:SG	2.01	1.19
1:D:2649:LYS:O	1:D:2650:VAL:HG22	1.42	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:GLN:NE2	1:A:271:SER:N	1.89	1.19
1:A:514:ASN:ND2	1:A:517:LYS:CD	1.93	1.19
1:B:2287:MET:O	1:B:2290:LEU:HB3	1.42	1.19
1:A:2559:GLU:CG	1:A:2562:LEU:HD23	1.73	1.19
1:C:2559:GLU:CG	1:C:2562:LEU:HD23	1.73	1.19
1:A:2359:ALA:O	1:A:2363:CYS:SG	2.01	1.18
1:B:270:GLN:O	1:B:272:ALA:N	1.75	1.18
1:B:2359:ALA:O	1:B:2363:CYS:SG	2.01	1.18
1:B:2559:GLU:CG	1:B:2562:LEU:HD23	1.73	1.18
1:D:270:GLN:NE2	1:D:271:SER:N	1.89	1.18
1:A:2412:PHE:O	1:A:2414:SER:N	1.77	1.18
1:A:2707:LYS:HE2	1:B:2706:MET:O	1.43	1.18
1:B:567:TYR:HB3	1:B:571:GLN:OE1	1.00	1.18
1:D:2273:MET:HB2	1:D:2371:SER:OG	1.43	1.18
1:D:2287:MET:O	1:D:2290:LEU:HB3	1.41	1.18
1:A:563:SER:O	1:A:567:TYR:HD2	1.27	1.18
1:C:2359:ALA:O	1:C:2363:CYS:SG	2.01	1.18
1:B:270:GLN:NE2	1:B:271:SER:N	1.89	1.18
1:B:2243:PHE:CE2	1:B:2638:MET:HB3	1.77	1.18
1:A:2584:LEU:HD11	1:B:2434:VAL:CG2	1.73	1.18
1:C:2243:PHE:CE2	1:C:2638:MET:HB3	1.77	1.18
1:B:563:SER:O	1:B:567:TYR:HD2	1.27	1.18
1:A:32:LEU:CB	1:A:445:PHE:CG	2.27	1.18
1:A:2699:GLN:HA	1:D:2700:GLU:OE1	1.42	1.18
1:B:78:PRO:O	1:B:81:ASN:O	1.62	1.18
1:A:78:PRO:O	1:A:81:ASN:O	1.62	1.17
1:B:2649:LYS:O	1:B:2650:VAL:HG22	1.43	1.17
1:D:32:LEU:CB	1:D:445:PHE:CG	2.27	1.17
1:D:563:SER:O	1:D:567:TYR:HD2	1.27	1.17
1:A:2287:MET:O	1:A:2290:LEU:HB3	1.41	1.17
1:C:567:TYR:HB3	1:C:571:GLN:OE1	1.00	1.17
1:C:2412:PHE:O	1:C:2414:SER:N	1.77	1.17
1:D:78:PRO:O	1:D:81:ASN:O	1.62	1.17
1:D:2345:ILE:HD13	1:D:2356:LEU:CD2	1.73	1.17
1:A:2348:VAL:CB	1:A:2353:THR:CB	2.12	1.17
1:C:270:GLN:O	1:C:272:ALA:N	1.75	1.17
1:C:270:GLN:N	2:C:2801:JYP:N2	1.67	1.17
1:C:2213:PRO:CG	1:C:2647:LEU:HB2	1.75	1.17
1:C:2273:MET:HB2	1:C:2371:SER:OG	1.43	1.17
1:B:2637:ASN:CB	1:B:2640:HIS:HD2	1.58	1.17
1:D:2243:PHE:CE2	1:D:2638:MET:HB3	1.77	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2368:PHE:CZ	1:A:2395:HIS:CD2	2.33	1.17
1:A:2403:ALA:O	1:A:2408:VAL:HG21	1.17	1.17
1:A:2637:ASN:CB	1:A:2640:HIS:HD2	1.58	1.17
1:C:78:PRO:O	1:C:81:ASN:O	1.62	1.17
1:B:570:ASN:HB3	1:B:571:GLN:OE1	1.44	1.17
1:D:270:GLN:O	1:D:272:ALA:N	1.75	1.17
1:D:2412:PHE:O	1:D:2414:SER:N	1.77	1.17
1:D:2559:GLU:CG	1:D:2562:LEU:HD23	1.73	1.17
1:C:2452:VAL:HG23	1:C:2573:PHE:CE1	1.80	1.17
1:C:2560:GLU:CG	1:C:2563:PHE:CE2	2.28	1.17
1:A:567:TYR:HB3	1:A:571:GLN:OE1	1.00	1.16
1:C:32:LEU:CB	1:C:445:PHE:CG	2.27	1.16
1:C:2239:LYS:HG2	1:C:2240:ILE:H	1.04	1.16
1:C:2433:SER:HB2	1:C:2593:PHE:CE2	1.66	1.16
1:B:2412:PHE:O	1:B:2414:SER:N	1.77	1.16
1:D:2368:PHE:HE2	1:D:2395:HIS:CD2	1.60	1.16
1:A:574:ILE:HA	1:A:577:GLN:OE1	1.43	1.16
1:A:2288:ASN:ND2	1:A:2417:LEU:HB2	1.59	1.16
1:A:2706:MET:HG3	1:D:2703:GLU:OE2	0.99	1.16
1:C:570:ASN:HB3	1:C:571:GLN:OE1	1.44	1.16
1:B:2612:PHE:CE2	1:B:2638:MET:SD	2.38	1.16
1:D:2213:PRO:CG	1:D:2647:LEU:HB2	1.75	1.16
1:C:563:SER:O	1:C:567:TYR:HD2	1.27	1.16
1:C:2239:LYS:HG2	1:C:2240:ILE:HG13	1.18	1.16
1:C:2649:LYS:O	1:C:2650:VAL:HG22	1.42	1.16
1:C:2706:MET:HG3	1:B:2703:GLU:OE2	0.98	1.16
1:B:32:LEU:CB	1:B:445:PHE:CG	2.27	1.16
1:B:2403:ALA:O	1:B:2408:VAL:HG21	1.16	1.16
1:B:2649:LYS:O	1:B:2650:VAL:CG2	1.94	1.16
1:D:2560:GLU:CG	1:D:2563:PHE:CE2	2.28	1.16
1:A:2700:GLU:HG3	1:B:2702:LEU:HD13	1.18	1.16
1:C:2272:ASN:C	1:C:2276:TRP:CD1	2.18	1.16
1:B:567:TYR:HA	2:B:2801:JYP:O9	1.45	1.16
1:B:2213:PRO:CG	1:B:2647:LEU:HB2	1.74	1.16
1:B:2272:ASN:C	1:B:2276:TRP:CD1	2.18	1.16
1:B:2368:PHE:CZ	1:B:2395:HIS:CD2	2.33	1.16
1:D:2452:VAL:HG23	1:D:2573:PHE:CE1	1.80	1.16
1:D:2637:ASN:CB	1:D:2640:HIS:HD2	1.58	1.16
1:A:567:TYR:HA	2:A:2801:JYP:O9	1.45	1.16
1:C:2637:ASN:CB	1:C:2640:HIS:HD2	1.58	1.16
1:B:514:ASN:ND2	1:B:517:LYS:CD	1.93	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1619:VAL:O	1:B:1621:ALA:N	1.79	1.16
1:B:2452:VAL:HG23	1:B:2573:PHE:CE1	1.80	1.16
1:D:2368:PHE:CZ	1:D:2395:HIS:CD2	2.33	1.16
1:A:2273:MET:HB2	1:A:2371:SER:OG	1.43	1.15
1:A:2368:PHE:HE2	1:A:2395:HIS:CD2	1.60	1.15
1:B:68:ALA:HB3	1:B:99:GLU:OE1	1.46	1.15
1:B:2368:PHE:HE2	1:B:2395:HIS:CD2	1.60	1.15
1:B:2433:SER:HB3	1:B:2593:PHE:CZ	1.70	1.15
1:D:567:TYR:HB3	1:D:571:GLN:OE1	1.00	1.15
1:D:2348:VAL:HG21	1:D:2353:THR:CG2	1.76	1.15
1:D:2433:SER:HB2	1:D:2593:PHE:CE2	1.66	1.15
1:C:2287:MET:O	1:C:2290:LEU:HB3	1.41	1.15
1:C:2288:ASN:ND2	1:C:2417:LEU:HB2	1.60	1.15
1:B:574:ILE:HA	1:B:577:GLN:OE1	1.43	1.15
1:B:2345:ILE:HD13	1:B:2356:LEU:HD21	1.26	1.15
1:A:2452:VAL:HG23	1:A:2573:PHE:CE1	1.80	1.15
1:C:2649:LYS:O	1:C:2650:VAL:CG2	1.93	1.15
1:B:514:ASN:ND2	1:B:517:LYS:HD2	1.21	1.15
1:A:2559:GLU:OE1	1:A:2562:LEU:HD21	1.45	1.15
1:A:2612:PHE:CE2	1:A:2638:MET:SD	2.38	1.15
1:C:514:ASN:ND2	1:C:517:LYS:HD2	1.21	1.15
1:C:2348:VAL:HG21	1:C:2353:THR:CG2	1.76	1.15
1:C:2368:PHE:CZ	1:C:2395:HIS:CD2	2.33	1.15
1:B:2361:ASN:ND2	1:B:2401:ILE:HD11	1.61	1.15
1:D:570:ASN:HB3	1:D:571:GLN:OE1	1.44	1.15
1:D:574:ILE:HA	1:D:577:GLN:OE1	1.43	1.15
1:D:2612:PHE:CE2	1:D:2638:MET:SD	2.38	1.15
1:A:2213:PRO:HG2	1:A:2647:LEU:CA	1.77	1.15
1:A:2348:VAL:HG21	1:A:2353:THR:CG2	1.76	1.15
1:B:2273:MET:HB2	1:B:2371:SER:OG	1.43	1.15
1:D:1619:VAL:O	1:D:1621:ALA:N	1.79	1.15
1:D:2288:ASN:ND2	1:D:2417:LEU:HB2	1.59	1.15
1:D:2345:ILE:HD11	1:D:2356:LEU:CD2	1.75	1.15
1:D:2559:GLU:OE1	1:D:2562:LEU:HD21	1.45	1.15
1:D:2649:LYS:O	1:D:2650:VAL:CG2	1.93	1.15
1:A:32:LEU:CB	1:A:445:PHE:CD1	2.30	1.14
1:C:68:ALA:HB3	1:C:99:GLU:OE1	1.46	1.14
1:C:2213:PRO:CG	1:C:2647:LEU:CA	2.25	1.14
1:C:2345:ILE:HG23	1:C:2353:THR:OG1	1.45	1.14
1:D:2271:ARG:NH1	1:D:2272:ASN:HD21	1.38	1.14
1:A:2213:PRO:CG	1:A:2647:LEU:CA	2.25	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2285:VAL:HG21	1:C:2417:LEU:HD13	1.14	1.14
1:C:2612:PHE:CE2	1:C:2638:MET:SD	2.38	1.14
1:B:460:LEU:HD23	1:B:465:ILE:HG23	1.15	1.14
1:B:2288:ASN:ND2	1:B:2417:LEU:HB2	1.59	1.14
1:B:2559:GLU:OE1	1:B:2562:LEU:HD21	1.45	1.14
1:D:2345:ILE:HG23	1:D:2353:THR:OG1	1.45	1.14
1:A:89:LEU:C	1:A:92:LEU:HD23	1.58	1.14
1:A:2243:PHE:CE1	1:A:2642:LEU:CD1	1.95	1.14
1:A:2573:PHE:CZ	1:A:2577:VAL:HG21	1.82	1.14
1:C:2213:PRO:HG2	1:C:2647:LEU:CA	1.77	1.14
1:A:68:ALA:HB3	1:A:99:GLU:OE1	1.46	1.14
1:A:570:ASN:HB3	1:A:571:GLN:OE1	1.44	1.14
1:A:2649:LYS:O	1:A:2650:VAL:CG2	1.93	1.14
1:C:32:LEU:CB	1:C:445:PHE:CD1	2.30	1.14
1:C:574:ILE:HA	1:C:577:GLN:OE1	1.43	1.14
1:C:2361:ASN:ND2	1:C:2401:ILE:HD11	1.62	1.14
1:D:68:ALA:HB3	1:D:99:GLU:OE1	1.46	1.14
1:D:89:LEU:C	1:D:92:LEU:HD23	1.58	1.14
1:D:2213:PRO:HG2	1:D:2647:LEU:CA	1.77	1.14
1:D:2713:SER:O	1:D:2716:LEU:HG	1.46	1.14
1:A:460:LEU:HD23	1:A:465:ILE:HG23	1.16	1.14
1:A:1302:HIS:CA	1:D:144:LYS:CB	2.26	1.14
1:A:1619:VAL:O	1:A:1621:ALA:N	1.79	1.14
1:A:2702:LEU:CD1	1:D:2700:GLU:HG2	1.74	1.14
1:C:1619:VAL:O	1:C:1621:ALA:N	1.79	1.14
1:C:2573:PHE:CZ	1:C:2577:VAL:HG21	1.83	1.14
1:A:2649:LYS:O	1:A:2650:VAL:HG22	1.43	1.13
1:B:32:LEU:CB	1:B:445:PHE:CD1	2.30	1.13
1:B:2213:PRO:CG	1:B:2647:LEU:CA	2.25	1.13
1:B:2288:ASN:HD21	1:B:2417:LEU:HB2	0.97	1.13
1:D:32:LEU:CB	1:D:445:PHE:CD1	2.30	1.13
1:D:2213:PRO:CG	1:D:2647:LEU:CA	2.25	1.13
1:D:2243:PHE:CE1	1:D:2642:LEU:CD1	1.95	1.13
1:A:2345:ILE:HG23	1:A:2353:THR:OG1	1.45	1.13
1:A:2560:GLU:HG3	1:A:2563:PHE:HE2	1.01	1.13
1:C:2345:ILE:HD11	1:C:2356:LEU:CD2	1.75	1.13
1:C:2434:VAL:HG21	1:B:2584:LEU:HD11	1.24	1.13
1:B:2345:ILE:HG23	1:B:2353:THR:OG1	1.45	1.13
1:B:2348:VAL:HG21	1:B:2353:THR:CG2	1.76	1.13
1:D:1317:LYS:C	1:D:1385:CYS:O	1.86	1.13
1:C:2559:GLU:OE1	1:C:2562:LEU:HD21	1.45	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:567:TYR:HB3	1:B:571:GLN:CD	1.69	1.13
1:B:2626:VAL:HG12	1:B:2627:THR:N	1.15	1.13
1:B:2649:LYS:O	1:B:2650:VAL:CB	1.96	1.13
1:D:270:GLN:N	2:D:2801:JYP:N2	1.67	1.13
1:D:460:LEU:HD23	1:D:465:ILE:HG23	1.15	1.13
1:A:300:ASN:OD1	1:D:2730:LYS:CB	1.96	1.13
1:A:514:ASN:ND2	1:A:517:LYS:HD2	1.21	1.13
1:A:2272:ASN:C	1:A:2276:TRP:CD1	2.18	1.13
1:A:2361:ASN:ND2	1:A:2401:ILE:HD11	1.62	1.13
1:C:567:TYR:HA	2:C:2801:JYP:O9	1.45	1.13
1:B:1097:PHE:O	1:B:1099:GLN:N	1.82	1.13
1:B:2213:PRO:HG2	1:B:2647:LEU:HA	1.14	1.13
1:D:2573:PHE:CZ	1:D:2577:VAL:HG21	1.82	1.13
1:D:2654:THR:O	1:D:2657:THR:HG22	1.33	1.13
1:C:300:ASN:OD1	1:B:2730:LYS:CG	1.97	1.13
1:C:460:LEU:HD23	1:C:465:ILE:HG23	1.15	1.13
1:C:567:TYR:HB3	1:C:571:GLN:CD	1.69	1.13
1:C:2288:ASN:HD21	1:C:2417:LEU:HB2	0.97	1.13
1:A:564:GLN:HB3	1:A:574:ILE:HD12	1.31	1.12
1:A:1097:PHE:O	1:A:1099:GLN:N	1.82	1.12
1:A:1317:LYS:C	1:A:1385:CYS:O	1.86	1.13
1:A:2345:ILE:HD13	1:A:2356:LEU:CD2	1.73	1.12
1:A:2713:SER:O	1:A:2716:LEU:HG	1.46	1.13
1:C:2713:SER:O	1:C:2716:LEU:HG	1.46	1.13
1:D:2285:VAL:HG21	1:D:2417:LEU:HD13	1.14	1.13
1:D:2361:ASN:ND2	1:D:2401:ILE:HD11	1.62	1.13
1:B:2213:PRO:HG2	1:B:2647:LEU:CA	1.77	1.12
1:D:2213:PRO:HG2	1:D:2647:LEU:HA	1.14	1.12
1:A:2213:PRO:CG	1:A:2647:LEU:HB2	1.75	1.12
1:A:2700:GLU:HG3	1:B:2702:LEU:CD1	1.70	1.12
1:C:1317:LYS:C	1:C:1385:CYS:O	1.86	1.12
1:C:2589:ILE:HG21	1:B:2583:ASN:OD1	1.49	1.12
1:D:567:TYR:HB3	1:D:571:GLN:CD	1.69	1.12
1:D:2384:ARG:O	1:D:2388:LEU:CD2	1.98	1.12
1:A:2384:ARG:O	1:A:2388:LEU:CD2	1.97	1.12
1:C:1097:PHE:O	1:C:1099:GLN:N	1.82	1.12
1:C:2368:PHE:HE2	1:C:2395:HIS:CD2	1.60	1.12
1:B:564:GLN:HB3	1:B:574:ILE:HD12	1.31	1.12
1:B:2345:ILE:HD11	1:B:2356:LEU:CD2	1.75	1.12
1:B:2560:GLU:HG3	1:B:2563:PHE:HE2	1.00	1.12
1:D:567:TYR:HA	2:D:2801:JYP:O9	1.45	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1097:PHE:O	1:D:1099:GLN:N	1.82	1.12
1:A:564:GLN:CB	1:A:574:ILE:HD12	1.79	1.12
1:A:771:GLU:O	1:A:773:LEU:N	1.83	1.12
1:A:2433:SER:HB3	1:A:2593:PHE:CZ	1.70	1.12
1:C:771:GLU:O	1:C:773:LEU:N	1.83	1.12
1:C:2710:THR:HB	1:B:2707:LYS:NZ	0.79	1.12
1:B:2573:PHE:CZ	1:B:2577:VAL:HG21	1.83	1.12
1:D:771:GLU:O	1:D:773:LEU:N	1.83	1.12
1:D:2210:PHE:CE2	1:D:2647:LEU:CD2	2.32	1.12
1:A:2239:LYS:HG2	1:A:2240:ILE:HG13	1.18	1.12
1:B:2285:VAL:HG21	1:B:2417:LEU:HD13	1.14	1.12
1:D:2622:ASP:OD2	1:D:2628:PHE:CZ	2.03	1.12
1:C:2210:PHE:CE2	1:C:2647:LEU:CD2	2.32	1.11
1:C:2558:LYS:HD2	1:C:2560:GLU:CD	1.71	1.11
1:B:457:ALA:CB	1:B:521:LYS:HG3	1.80	1.11
1:B:1317:LYS:C	1:B:1385:CYS:O	1.86	1.11
1:B:2713:SER:O	1:B:2716:LEU:HG	1.46	1.11
1:D:2272:ASN:C	1:D:2276:TRP:CD1	2.18	1.11
1:D:2626:VAL:HG12	1:D:2627:THR:N	1.15	1.11
1:C:457:ALA:CB	1:C:521:LYS:HG3	1.80	1.11
1:C:2583:ASN:CB	1:D:2586:PHE:CE1	2.31	1.11
1:B:2239:LYS:HG2	1:B:2240:ILE:H	1.04	1.11
1:B:2560:GLU:CG	1:B:2563:PHE:CE2	2.28	1.11
1:C:2348:VAL:CG1	1:C:2353:THR:OG1	1.98	1.11
1:B:510:MET:O	1:B:515:ILE:CB	1.99	1.11
1:B:2384:ARG:O	1:B:2388:LEU:CD2	1.97	1.11
1:B:2558:LYS:HD2	1:B:2560:GLU:CD	1.71	1.11
1:A:510:MET:O	1:A:515:ILE:CB	1.99	1.11
1:A:567:TYR:HB3	1:A:571:GLN:CD	1.69	1.11
1:C:564:GLN:CB	1:C:574:ILE:HD12	1.79	1.11
1:C:2384:ARG:O	1:C:2388:LEU:CD2	1.97	1.11
1:C:2649:LYS:O	1:C:2650:VAL:CB	1.96	1.11
1:C:2713:SER:HB2	1:B:2715:GLN:NE2	1.65	1.11
1:B:2210:PHE:CE2	1:B:2647:LEU:CD2	2.32	1.11
1:C:2626:VAL:HG12	1:C:2627:THR:N	1.15	1.11
1:B:2348:VAL:CG1	1:B:2353:THR:OG1	1.99	1.11
1:B:2654:THR:O	1:B:2657:THR:HG22	1.33	1.11
1:D:564:GLN:CB	1:D:574:ILE:HD12	1.79	1.11
1:D:2216:CYS:SG	1:D:2646:VAL:CG2	2.39	1.11
1:D:2239:LYS:HG2	1:D:2240:ILE:H	1.04	1.11
1:D:2239:LYS:HG2	1:D:2240:ILE:HG13	1.18	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2702:LEU:HD12	1:D:2700:GLU:HG2	1.29	1.10
1:C:2062:GLY:O	1:C:2064:ASP:N	1.83	1.10
1:C:2216:CYS:SG	1:C:2646:VAL:CG2	2.39	1.10
1:C:2713:SER:CB	1:B:2715:GLN:NE2	2.14	1.10
1:B:270:GLN:N	2:B:2801:JYP:N2	1.67	1.10
1:B:564:GLN:CB	1:B:574:ILE:HD12	1.79	1.10
1:B:885:LEU:O	1:B:889:LYS:N	1.84	1.10
1:B:1334:LEU:O	1:B:1337:SER:C	1.90	1.10
1:D:564:GLN:HB3	1:D:574:ILE:HD12	1.31	1.10
1:D:2348:VAL:CG1	1:D:2353:THR:OG1	1.99	1.10
1:D:2558:LYS:HD2	1:D:2560:GLU:CD	1.71	1.10
1:C:510:MET:O	1:C:515:ILE:CB	1.99	1.10
1:A:2200:ARG:HB2	1:A:2662:TYR:CE2	1.87	1.10
1:A:2288:ASN:HD21	1:A:2417:LEU:HB2	0.97	1.10
1:A:2560:GLU:CG	1:A:2563:PHE:CE2	2.28	1.10
1:C:768:MET:CA	1:C:776:ASP:CA	2.30	1.10
1:C:2560:GLU:HG3	1:C:2563:PHE:HE2	1.00	1.10
1:B:2216:CYS:SG	1:B:2646:VAL:CG2	2.39	1.10
1:D:768:MET:CA	1:D:776:ASP:CA	2.30	1.10
1:D:2622:ASP:CG	1:D:2628:PHE:CD2	2.25	1.10
1:D:2654:THR:O	1:D:2657:THR:HG23	1.46	1.10
1:A:2210:PHE:CE2	1:A:2647:LEU:CD2	2.32	1.10
1:A:2216:CYS:SG	1:A:2646:VAL:CG2	2.39	1.10
1:A:2239:LYS:HG2	1:A:2240:ILE:H	1.04	1.10
1:A:2622:ASP:OD2	1:A:2628:PHE:CZ	2.03	1.10
1:B:2622:ASP:OD2	1:B:2628:PHE:CZ	2.03	1.10
1:D:885:LEU:O	1:D:889:LYS:N	1.84	1.10
1:D:1334:LEU:O	1:D:1337:SER:C	1.90	1.10
1:D:2273:MET:SD	1:D:2375:ASN:ND2	2.22	1.10
1:A:1334:LEU:O	1:A:1337:SER:C	1.90	1.10
1:C:2271:ARG:NH1	1:C:2272:ASN:HD21	1.39	1.10
1:B:2200:ARG:HB2	1:B:2662:TYR:CE2	1.87	1.10
1:D:457:ALA:CB	1:D:521:LYS:HG3	1.80	1.10
1:D:2348:VAL:CG2	1:D:2353:THR:CG2	2.30	1.10
1:A:2345:ILE:HD11	1:A:2356:LEU:CD2	1.74	1.09
1:C:885:LEU:O	1:C:889:LYS:N	1.84	1.09
1:B:573:TYR:O	1:B:577:GLN:CG	2.01	1.09
1:B:768:MET:CA	1:B:776:ASP:CA	2.30	1.09
1:B:2622:ASP:CG	1:B:2628:PHE:CD2	2.25	1.09
1:D:2560:GLU:HG3	1:D:2563:PHE:HE2	1.01	1.09
1:A:457:ALA:CB	1:A:521:LYS:HG3	1.80	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2285:VAL:HG21	1:A:2417:LEU:HD13	1.14	1.09
1:A:2586:PHE:CE1	1:D:2583:ASN:HB3	1.85	1.09
1:A:2612:PHE:CE1	1:A:2638:MET:SD	2.44	1.09
1:C:2345:ILE:HD13	1:C:2356:LEU:CD2	1.73	1.09
1:C:2622:ASP:OD2	1:C:2628:PHE:CZ	2.03	1.09
1:B:771:GLU:O	1:B:773:LEU:N	1.83	1.09
1:B:2062:GLY:O	1:B:2064:ASP:N	1.83	1.09
1:B:2348:VAL:CG2	1:B:2353:THR:CG2	2.30	1.09
1:D:2210:PHE:CD2	1:D:2647:LEU:HD23	1.87	1.09
1:A:2236:GLN:HB3	1:B:2619:ASP:OD1	1.53	1.09
1:A:2348:VAL:CG2	1:A:2353:THR:CG2	2.30	1.09
1:B:2654:THR:O	1:B:2657:THR:HG23	1.46	1.09
1:D:299:TRP:CH2	1:D:380:SER:HB3	1.88	1.09
1:D:573:TYR:O	1:D:577:GLN:CG	2.01	1.09
1:A:2348:VAL:CG1	1:A:2353:THR:OG1	1.99	1.09
1:C:1334:LEU:O	1:C:1337:SER:C	1.90	1.09
1:C:2348:VAL:CG2	1:C:2353:THR:CG2	2.30	1.09
1:C:2583:ASN:ND2	1:D:2586:PHE:HA	1.68	1.09
1:B:2612:PHE:CE1	1:B:2638:MET:SD	2.44	1.09
1:D:567:TYR:CB	1:D:571:GLN:CD	2.20	1.09
1:D:2213:PRO:HG3	1:D:2647:LEU:HD12	1.35	1.09
1:D:2612:PHE:CE1	1:D:2638:MET:SD	2.44	1.09
1:A:299:TRP:CH2	1:A:380:SER:HB3	1.88	1.09
1:A:768:MET:CA	1:A:776:ASP:CA	2.30	1.09
1:A:885:LEU:O	1:A:889:LYS:N	1.84	1.09
1:A:1619:VAL:O	1:A:1622:GLU:N	1.86	1.09
1:A:2062:GLY:O	1:A:2064:ASP:N	1.83	1.09
1:C:1619:VAL:O	1:C:1622:GLU:N	1.86	1.09
1:C:2200:ARG:HB2	1:C:2662:TYR:CE2	1.87	1.09
1:C:2210:PHE:CD2	1:C:2647:LEU:HD23	1.87	1.09
1:B:2210:PHE:CD2	1:B:2647:LEU:HD23	1.87	1.09
1:D:510:MET:O	1:D:515:ILE:CB	1.99	1.09
1:D:2200:ARG:HB2	1:D:2662:TYR:CE2	1.87	1.09
1:A:2558:LYS:HD2	1:A:2560:GLU:CD	1.71	1.08
1:A:2622:ASP:CG	1:A:2628:PHE:CD2	2.25	1.08
1:C:2433:SER:HB3	1:C:2593:PHE:CZ	1.70	1.08
1:B:299:TRP:CH2	1:B:380:SER:HB3	1.88	1.08
1:D:486:GLY:HA2	1:D:510:MET:SD	1.93	1.08
1:A:2210:PHE:CD2	1:A:2647:LEU:HD23	1.87	1.08
1:A:2584:LEU:CD1	1:B:2434:VAL:HG21	1.82	1.08
1:A:2716:LEU:HD23	1:A:2716:LEU:H	1.19	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2348:VAL:HG11	1:C:2353:THR:OG1	1.53	1.08
1:C:2612:PHE:CE1	1:C:2638:MET:SD	2.44	1.08
1:B:2348:VAL:HG11	1:B:2353:THR:OG1	1.53	1.08
1:D:2062:GLY:O	1:D:2064:ASP:N	1.83	1.08
1:A:2271:ARG:NH1	1:A:2272:ASN:HD21	1.39	1.08
1:A:2654:THR:O	1:A:2657:THR:HG23	1.46	1.08
1:A:2677:ARG:HH21	1:B:2623:ASN:CG	1.57	1.08
1:C:2213:PRO:HG2	1:C:2647:LEU:HA	1.14	1.08
1:B:2345:ILE:HD13	1:B:2356:LEU:CD2	1.73	1.08
1:B:2348:VAL:HG11	1:B:2353:THR:CB	1.84	1.08
1:D:2649:LYS:O	1:D:2650:VAL:CB	1.96	1.08
1:A:275:ALA:HB2	2:A:2801:JYP:N4	1.69	1.08
1:A:486:GLY:HA2	1:A:510:MET:SD	1.93	1.08
1:A:2384:ARG:O	1:A:2388:LEU:HD21	1.53	1.08
1:C:573:TYR:O	1:C:577:GLN:CG	2.01	1.08
1:C:2696:ARG:NH1	1:B:2696:ARG:NH2	1.98	1.08
1:B:442:ASP:OD1	1:B:483:PHE:HE2	1.31	1.08
1:B:2348:VAL:HG21	1:B:2353:THR:HG21	1.11	1.08
1:D:1619:VAL:O	1:D:1622:GLU:N	1.86	1.08
1:D:2560:GLU:HG3	1:D:2563:PHE:CE2	1.75	1.08
1:D:2622:ASP:HB3	1:D:2628:PHE:CD2	1.89	1.08
1:A:2178:GLY:HA2	1:A:2186:LEU:CD2	1.84	1.08
1:A:2213:PRO:HG2	1:A:2647:LEU:HA	1.14	1.08
1:A:2348:VAL:HG11	1:A:2353:THR:OG1	1.53	1.08
1:A:2434:VAL:HG21	1:D:2584:LEU:HD11	1.13	1.08
1:A:2586:PHE:CE1	1:D:2583:ASN:CB	2.37	1.08
1:C:89:LEU:C	1:C:92:LEU:HD22	1.74	1.08
1:C:299:TRP:CH2	1:C:380:SER:HB3	1.88	1.08
1:C:2584:LEU:HD11	1:D:2434:VAL:HG21	1.12	1.08
1:B:1619:VAL:O	1:B:1622:GLU:N	1.86	1.08
1:B:2178:GLY:HA2	1:B:2186:LEU:CD2	1.84	1.08
1:B:2271:ARG:NH1	1:B:2272:ASN:HD21	1.39	1.08
1:B:2622:ASP:CG	1:B:2628:PHE:CZ	2.28	1.08
1:D:2243:PHE:CD1	1:D:2642:LEU:HD11	1.89	1.08
1:D:2433:SER:HB3	1:D:2593:PHE:CZ	1.70	1.08
1:A:567:TYR:CB	1:A:571:GLN:CD	2.20	1.07
1:C:486:GLY:HA2	1:C:510:MET:SD	1.93	1.07
1:C:2558:LYS:CD	1:C:2560:GLU:OE2	2.02	1.07
1:C:2622:ASP:CG	1:C:2628:PHE:CD2	2.25	1.07
1:A:2216:CYS:SG	1:A:2646:VAL:HG21	1.94	1.07
1:A:2558:LYS:CD	1:A:2560:GLU:OE2	2.02	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2622:ASP:HB3	1:A:2628:PHE:CD2	1.89	1.07
1:A:2696:ARG:NH1	1:D:2696:ARG:NE	2.01	1.07
1:C:2243:PHE:CD1	1:C:2642:LEU:HD11	1.89	1.07
1:C:2271:ARG:NH1	1:C:2272:ASN:CG	2.07	1.07
1:C:2677:ARG:HD3	1:D:2623:ASN:OD1	1.49	1.07
1:B:2284:ALA:O	1:B:2287:MET:HB3	1.54	1.07
1:D:2384:ARG:O	1:D:2388:LEU:HD21	1.53	1.07
1:A:573:TYR:O	1:A:577:GLN:CG	2.01	1.07
1:A:2348:VAL:HG11	1:A:2353:THR:CB	1.84	1.07
1:A:2623:ASN:OD1	1:D:2677:ARG:HD3	1.53	1.07
1:C:567:TYR:CB	1:C:571:GLN:CD	2.20	1.07
1:B:1456:VAL:O	1:B:1507:PRO:O	1.73	1.07
1:D:89:LEU:C	1:D:92:LEU:HD22	1.74	1.07
1:D:2288:ASN:HD21	1:D:2417:LEU:HB2	0.97	1.07
1:A:2243:PHE:CD1	1:A:2642:LEU:HD11	1.89	1.07
1:C:449:ALA:C	1:C:453:LEU:HG	1.75	1.07
1:B:2216:CYS:SG	1:B:2646:VAL:HG21	1.95	1.07
1:B:2239:LYS:HG2	1:B:2240:ILE:HG13	1.18	1.07
1:D:275:ALA:HB2	2:D:2801:JYP:N4	1.69	1.07
1:D:2271:ARG:NH1	1:D:2272:ASN:CG	2.07	1.07
1:A:457:ALA:HB2	1:A:521:LYS:CG	1.85	1.07
1:A:2654:THR:O	1:A:2657:THR:HG22	1.33	1.07
1:C:2384:ARG:O	1:C:2388:LEU:HD21	1.53	1.07
1:C:2716:LEU:HD23	1:C:2716:LEU:H	1.19	1.07
1:B:89:LEU:HA	1:B:92:LEU:CD2	1.65	1.07
1:B:486:GLY:HA2	1:B:510:MET:SD	1.93	1.07
1:B:2271:ARG:NH1	1:B:2272:ASN:CG	2.07	1.07
1:B:2716:LEU:H	1:B:2716:LEU:HD23	1.19	1.07
1:D:449:ALA:C	1:D:453:LEU:HG	1.75	1.07
1:D:2622:ASP:CG	1:D:2628:PHE:CZ	2.28	1.07
1:A:89:LEU:C	1:A:92:LEU:HD22	1.74	1.06
1:A:2213:PRO:HG3	1:A:2647:LEU:HD12	1.35	1.06
1:A:2348:VAL:HG21	1:A:2353:THR:HG21	1.11	1.06
1:A:2623:ASN:CG	1:D:2677:ARG:HH21	1.56	1.06
1:C:2178:GLY:HA2	1:C:2186:LEU:CD2	1.84	1.06
1:B:567:TYR:CB	1:B:571:GLN:CD	2.20	1.06
1:D:2558:LYS:CD	1:D:2560:GLU:OE2	2.02	1.06
1:A:2622:ASP:CG	1:A:2628:PHE:CZ	2.28	1.06
1:C:2239:LYS:HG2	1:C:2240:ILE:CG1	1.85	1.06
1:C:2284:ALA:O	1:C:2287:MET:HB3	1.54	1.06
1:C:2401:ILE:HG12	1:C:2416:LEU:HD22	1.19	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2654:THR:O	1:C:2657:THR:HG23	1.46	1.06
1:B:2178:GLY:HA2	1:B:2186:LEU:HD21	1.09	1.06
1:B:2213:PRO:HG3	1:B:2647:LEU:HD12	1.35	1.06
1:B:2384:ARG:O	1:B:2388:LEU:HD21	1.53	1.06
1:B:2558:LYS:CD	1:B:2560:GLU:OE2	2.02	1.06
1:D:2178:GLY:HA2	1:D:2186:LEU:CD2	1.84	1.06
1:A:2284:ALA:O	1:A:2287:MET:HB3	1.54	1.06
1:A:2586:PHE:HA	1:D:2583:ASN:ND2	1.71	1.06
1:A:2649:LYS:O	1:A:2650:VAL:CB	1.96	1.06
1:C:90:ASN:HA	1:C:93:HIS:CE1	1.90	1.06
1:C:1456:VAL:O	1:C:1507:PRO:O	1.73	1.06
1:C:2707:LYS:HE2	1:D:2706:MET:O	1.53	1.06
1:B:2239:LYS:HG2	1:B:2240:ILE:CG1	1.85	1.06
1:B:2243:PHE:CD1	1:B:2642:LEU:HD11	1.89	1.06
1:D:270:GLN:O	1:D:271:SER:C	1.91	1.06
1:D:2284:ALA:O	1:D:2287:MET:HB3	1.54	1.06
1:A:2178:GLY:HA2	1:A:2186:LEU:HD21	1.10	1.06
1:C:2622:ASP:HB3	1:C:2628:PHE:CD2	1.89	1.06
1:B:2622:ASP:HB3	1:B:2628:PHE:CD2	1.89	1.06
1:D:2178:GLY:HA2	1:D:2186:LEU:HD21	1.10	1.06
1:D:2216:CYS:SG	1:D:2646:VAL:HG21	1.94	1.06
1:D:2683:LEU:O	1:D:2684:VAL:CG2	2.04	1.06
1:A:2239:LYS:HG2	1:A:2240:ILE:CG1	1.85	1.06
1:A:2622:ASP:OD1	1:A:2628:PHE:CD1	2.09	1.06
1:A:2626:VAL:HG12	1:A:2627:THR:N	1.15	1.06
1:C:2560:GLU:HG3	1:C:2563:PHE:CE2	1.75	1.06
1:D:457:ALA:HB2	1:D:521:LYS:CG	1.85	1.06
1:A:90:ASN:HA	1:A:93:HIS:CE1	1.90	1.05
1:C:127:LYS:O	1:C:441:ARG:HD2	1.56	1.05
1:C:2216:CYS:SG	1:C:2646:VAL:HG21	1.95	1.05
1:C:2273:MET:SD	1:C:2375:ASN:ND2	2.22	1.05
1:C:2622:ASP:CG	1:C:2628:PHE:CZ	2.28	1.05
1:B:275:ALA:HB2	2:B:2801:JYP:N4	1.69	1.05
1:D:2239:LYS:HG2	1:D:2240:ILE:CG1	1.85	1.05
1:A:2271:ARG:NH1	1:A:2272:ASN:CG	2.07	1.05
1:A:2560:GLU:HG3	1:A:2563:PHE:CE2	1.75	1.05
1:C:2178:GLY:HA2	1:C:2186:LEU:HD21	1.10	1.05
1:C:2348:VAL:HG11	1:C:2353:THR:CB	1.84	1.05
1:B:89:LEU:C	1:B:92:LEU:HD22	1.74	1.05
1:A:89:LEU:HA	1:A:92:LEU:HD23	1.06	1.05
1:A:270:GLN:O	1:A:271:SER:C	1.91	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:564:GLN:HB3	1:C:574:ILE:HD12	1.31	1.05
1:B:90:ASN:HA	1:B:93:HIS:CE1	1.90	1.05
1:B:520:PHE:CD1	1:B:523:LEU:HD12	1.92	1.05
1:D:90:ASN:HA	1:D:93:HIS:CE1	1.90	1.05
1:D:520:PHE:CD1	1:D:523:LEU:HD12	1.92	1.05
1:A:2365:LYS:NZ	1:A:2368:PHE:CD2	2.25	1.05
1:A:2683:LEU:O	1:A:2684:VAL:CG2	2.04	1.05
1:C:520:PHE:CD1	1:C:523:LEU:HD12	1.92	1.05
1:C:2622:ASP:OD1	1:C:2628:PHE:CD1	2.09	1.05
1:C:2654:THR:O	1:C:2657:THR:HG22	1.33	1.05
1:B:89:LEU:C	1:B:92:LEU:HD23	1.58	1.05
1:B:127:LYS:O	1:B:441:ARG:HD2	1.56	1.05
1:B:449:ALA:C	1:B:453:LEU:HG	1.75	1.05
1:B:457:ALA:HB2	1:B:521:LYS:CG	1.85	1.05
1:B:2365:LYS:NZ	1:B:2368:PHE:CD2	2.25	1.05
1:A:520:PHE:CD1	1:A:523:LEU:HD12	1.92	1.05
1:A:2583:ASN:CB	1:B:2586:PHE:CD1	2.37	1.05
1:C:2213:PRO:HG3	1:C:2647:LEU:HD12	1.35	1.05
1:C:2683:LEU:O	1:C:2684:VAL:CG2	2.04	1.05
1:D:507:GLN:HG3	1:D:567:TYR:CE1	1.92	1.05
1:A:2403:ALA:O	1:A:2408:VAL:HG23	1.56	1.04
1:C:275:ALA:HB2	2:C:2801:JYP:N4	1.69	1.04
1:C:457:ALA:HB2	1:C:521:LYS:CG	1.85	1.04
1:C:569:LYS:HE3	2:C:2801:JYP:C10	1.87	1.04
1:C:2584:LEU:HD11	1:D:2434:VAL:CG2	1.87	1.04
1:B:2345:ILE:HD11	1:B:2356:LEU:HD21	1.08	1.04
1:B:2683:LEU:O	1:B:2684:VAL:CG2	2.04	1.04
1:D:1456:VAL:O	1:D:1507:PRO:O	1.73	1.04
1:A:449:ALA:C	1:A:453:LEU:HG	1.75	1.04
1:A:2345:ILE:O	1:A:2348:VAL:HG13	0.86	1.04
1:A:2429:ASN:OD1	1:A:2432:LYS:CE	2.05	1.04
1:A:2702:LEU:HD13	1:D:2700:GLU:HG3	1.30	1.04
1:C:2348:VAL:HG21	1:C:2353:THR:HG21	1.11	1.04
1:C:2677:ARG:HH21	1:D:2623:ASN:CG	1.59	1.04
1:C:2699:GLN:HA	1:B:2700:GLU:OE1	1.57	1.04
1:B:2401:ILE:CG1	1:B:2416:LEU:CD2	2.24	1.04
1:D:2365:LYS:NZ	1:D:2368:PHE:CD2	2.25	1.04
1:D:2622:ASP:OD1	1:D:2628:PHE:CD1	2.09	1.04
1:A:2345:ILE:HD11	1:A:2356:LEU:HD21	1.08	1.04
1:C:89:LEU:C	1:C:92:LEU:HD23	1.58	1.04
1:B:646:PRO:CA	1:B:649:GLN:CA	2.36	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2345:ILE:O	1:D:2348:VAL:HG13	0.86	1.04
1:B:2345:ILE:O	1:B:2348:VAL:HG13	0.86	1.04
1:B:2732:ARG:HB3	1:B:2732:ARG:HH11	1.21	1.04
1:A:2401:ILE:CG1	1:A:2416:LEU:CD2	2.24	1.03
1:C:563:SER:O	1:C:567:TYR:CD2	2.11	1.03
1:B:2622:ASP:OD1	1:B:2628:PHE:CD1	2.09	1.03
1:D:89:LEU:HA	1:D:92:LEU:HD23	1.06	1.03
1:A:2361:ASN:HD21	1:A:2401:ILE:CD1	1.72	1.03
1:A:2583:ASN:HB2	1:B:2586:PHE:CE1	1.93	1.03
1:B:2401:ILE:HG12	1:B:2416:LEU:HD22	1.19	1.03
1:B:2429:ASN:OD1	1:B:2432:LYS:CE	2.06	1.03
1:D:270:GLN:O	1:D:272:ALA:O	1.76	1.03
1:D:569:LYS:HE3	2:D:2801:JYP:C10	1.87	1.03
1:D:2348:VAL:HG21	1:D:2353:THR:HG21	1.11	1.03
1:D:2716:LEU:HD23	1:D:2716:LEU:H	1.19	1.03
1:A:646:PRO:CA	1:A:649:GLN:CA	2.36	1.03
1:A:2583:ASN:ND2	1:B:2586:PHE:CA	2.20	1.03
1:C:2345:ILE:HD11	1:C:2356:LEU:HD21	1.07	1.03
1:C:2365:LYS:NZ	1:C:2368:PHE:CD2	2.25	1.03
1:C:2583:ASN:HB3	1:D:2586:PHE:CD1	1.93	1.03
1:B:563:SER:O	1:B:567:TYR:CD2	2.11	1.03
1:A:127:LYS:O	1:A:441:ARG:HD2	1.56	1.03
1:A:1456:VAL:O	1:A:1507:PRO:O	1.73	1.03
1:A:2713:SER:O	1:A:2716:LEU:CG	2.07	1.03
1:C:2429:ASN:OD1	1:C:2432:LYS:CE	2.06	1.03
1:B:89:LEU:HA	1:B:92:LEU:HD23	1.06	1.03
1:B:2361:ASN:HD21	1:B:2401:ILE:CD1	1.72	1.03
1:D:563:SER:O	1:D:567:TYR:CD2	2.11	1.03
1:D:2361:ASN:HD21	1:D:2401:ILE:CD1	1.72	1.03
1:A:270:GLN:O	1:A:272:ALA:O	1.76	1.03
1:A:569:LYS:HE3	2:A:2801:JYP:C10	1.87	1.03
1:B:569:LYS:HE3	2:B:2801:JYP:C10	1.87	1.03
1:D:646:PRO:CA	1:D:649:GLN:CA	2.36	1.03
1:D:2345:ILE:HD13	1:D:2356:LEU:HD21	1.26	1.03
1:A:563:SER:O	1:A:567:TYR:CD2	2.11	1.02
1:C:646:PRO:CA	1:C:649:GLN:CA	2.36	1.02
1:C:2200:ARG:HB2	1:C:2662:TYR:CZ	1.94	1.02
1:C:2345:ILE:O	1:C:2348:VAL:HG13	0.86	1.02
1:C:2586:PHE:CE1	1:B:2583:ASN:HB2	1.94	1.02
1:D:263:PHE:HE2	1:D:265:ARG:HE	1.03	1.02
1:D:2345:ILE:HD11	1:D:2356:LEU:HD21	1.07	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2348:VAL:HG11	1:D:2353:THR:CB	1.84	1.02
1:A:108:ARG:HH11	1:A:108:ARG:HG3	1.25	1.02
1:A:507:GLN:HG3	1:A:567:TYR:CE1	1.92	1.02
1:A:1456:VAL:O	1:A:1507:PRO:C	1.98	1.02
1:A:2368:PHE:CZ	1:A:2395:HIS:CE1	2.47	1.02
1:A:2560:GLU:O	1:A:2563:PHE:HB2	1.58	1.02
1:B:108:ARG:HH11	1:B:108:ARG:HG3	1.25	1.02
1:B:2213:PRO:CG	1:B:2647:LEU:CD1	2.37	1.02
1:D:127:LYS:O	1:D:441:ARG:HD2	1.56	1.02
1:D:2200:ARG:HB2	1:D:2662:TYR:CZ	1.94	1.02
1:A:2273:MET:SD	1:A:2375:ASN:ND2	2.22	1.02
1:B:2576:MET:HE1	1:B:2580:ILE:HG13	1.42	1.02
1:D:2560:GLU:O	1:D:2563:PHE:HB2	1.58	1.02
1:A:2200:ARG:HB2	1:A:2662:TYR:CZ	1.94	1.02
1:C:507:GLN:HG3	1:C:567:TYR:CE1	1.92	1.02
1:C:2560:GLU:O	1:C:2563:PHE:HB2	1.58	1.02
1:B:270:GLN:O	1:B:272:ALA:O	1.76	1.02
1:B:1456:VAL:O	1:B:1507:PRO:C	1.98	1.02
1:B:2368:PHE:CZ	1:B:2395:HIS:CE1	2.47	1.02
1:B:2560:GLU:HG3	1:B:2563:PHE:CE2	1.75	1.02
1:C:2239:LYS:CG	1:C:2240:ILE:HG13	1.90	1.02
1:C:2586:PHE:CD1	1:B:2583:ASN:HB3	1.94	1.02
1:C:2622:ASP:CB	1:C:2628:PHE:CD2	2.43	1.02
1:C:2696:ARG:NH1	1:B:2696:ARG:NE	2.07	1.02
1:C:2732:ARG:HB3	1:C:2732:ARG:HH11	1.21	1.02
1:D:2239:LYS:CG	1:D:2240:ILE:HG13	1.90	1.02
1:D:2429:ASN:OD1	1:D:2432:LYS:CE	2.05	1.02
1:D:2713:SER:O	1:D:2716:LEU:CG	2.07	1.02
1:A:2348:VAL:HB	1:A:2353:THR:CG2	1.87	1.01
1:A:2732:ARG:HB3	1:A:2732:ARG:HH11	1.21	1.01
1:C:89:LEU:HA	1:C:92:LEU:HD23	1.06	1.01
1:C:1456:VAL:O	1:C:1507:PRO:C	1.98	1.01
1:B:507:GLN:HG3	1:B:567:TYR:CE1	1.92	1.01
1:B:552:ILE:O	1:B:556:CYS:SG	2.19	1.01
1:B:2273:MET:SD	1:B:2375:ASN:ND2	2.22	1.01
1:B:2713:SER:O	1:B:2716:LEU:CG	2.07	1.01
1:D:2348:VAL:HG11	1:D:2353:THR:OG1	1.53	1.01
1:A:602:ASN:O	1:A:606:LEU:N	1.93	1.01
1:A:2213:PRO:CG	1:A:2647:LEU:CD1	2.37	1.01
1:A:2702:LEU:HD13	1:D:2700:GLU:CG	1.85	1.01
1:C:2348:VAL:HB	1:C:2353:THR:HB	1.02	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2009:CYS:O	1:A:2013:SER:N	1.94	1.01
1:A:2713:SER:C	1:A:2716:LEU:HD21	1.81	1.01
1:C:270:GLN:O	1:C:271:SER:C	1.91	1.01
1:B:2200:ARG:HB2	1:B:2662:TYR:CZ	1.94	1.01
1:D:552:ILE:O	1:D:556:CYS:SG	2.18	1.01
1:D:1456:VAL:O	1:D:1507:PRO:C	1.98	1.01
1:A:263:PHE:HE2	1:A:265:ARG:HE	1.03	1.01
1:A:510:MET:O	1:A:515:ILE:CG2	2.09	1.01
1:A:569:LYS:HE2	2:A:2801:JYP:C12	1.91	1.01
1:C:270:GLN:O	1:C:272:ALA:O	1.76	1.01
1:C:552:ILE:O	1:C:556:CYS:SG	2.18	1.01
1:C:2201:LEU:N	1:C:2662:TYR:OH	1.94	1.01
1:C:2213:PRO:CG	1:C:2647:LEU:CD1	2.37	1.01
1:C:2361:ASN:HD21	1:C:2401:ILE:CD1	1.72	1.01
1:C:2368:PHE:CZ	1:C:2395:HIS:CE1	2.47	1.01
1:C:2713:SER:O	1:C:2716:LEU:CG	2.07	1.01
1:B:2009:CYS:O	1:B:2013:SER:N	1.93	1.01
1:D:2213:PRO:CG	1:D:2647:LEU:CD1	2.37	1.01
1:D:2348:VAL:HB	1:D:2353:THR:HB	1.02	1.01
1:D:2576:MET:HE1	1:D:2580:ILE:HG13	1.41	1.01
1:A:2239:LYS:CG	1:A:2240:ILE:HG13	1.90	1.01
1:A:2622:ASP:CB	1:A:2628:PHE:CD2	2.43	1.01
1:C:2401:ILE:CD1	1:C:2416:LEU:CD2	2.39	1.01
1:C:2576:MET:HE1	1:C:2580:ILE:HG13	1.41	1.01
1:D:453:LEU:HA	1:D:521:LYS:NZ	1.76	1.01
1:D:569:LYS:HE2	2:D:2801:JYP:C12	1.91	1.01
1:D:2201:LEU:N	1:D:2662:TYR:OH	1.94	1.01
1:D:2368:PHE:CZ	1:D:2395:HIS:CE1	2.47	1.01
1:C:442:ASP:OD1	1:C:483:PHE:HE2	1.31	1.00
1:C:2388:LEU:HD23	1:C:2388:LEU:H	1.25	1.00
1:B:569:LYS:HE2	2:B:2801:JYP:C12	1.91	1.00
1:B:2239:LYS:CG	1:B:2240:ILE:HG13	1.90	1.00
1:B:2348:VAL:HB	1:B:2353:THR:CG2	1.87	1.00
1:D:442:ASP:OD1	1:D:483:PHE:HE2	1.31	1.00
1:D:457:ALA:HB2	1:D:521:LYS:HG3	1.01	1.00
1:D:602:ASN:O	1:D:606:LEU:N	1.93	1.00
1:D:2361:ASN:HD21	1:D:2401:ILE:HD11	0.84	1.00
1:D:2403:ALA:O	1:D:2408:VAL:HG23	1.56	1.00
1:A:2361:ASN:HD21	1:A:2401:ILE:HD11	0.84	1.00
1:C:510:MET:O	1:C:515:ILE:CG2	2.09	1.00
1:C:2189:TYR:O	1:C:2192:HIS:C	2.00	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2403:ALA:O	1:B:2408:VAL:HG23	1.56	1.00
1:D:2009:CYS:O	1:D:2013:SER:N	1.94	1.00
1:D:2401:ILE:CG1	1:D:2416:LEU:CD2	2.24	1.00
1:D:2622:ASP:CB	1:D:2628:PHE:CD2	2.43	1.00
1:A:552:ILE:O	1:A:556:CYS:SG	2.18	1.00
1:A:2576:MET:HE1	1:A:2580:ILE:HG13	1.42	1.00
1:C:602:ASN:O	1:C:606:LEU:N	1.93	1.00
1:B:270:GLN:O	1:B:271:SER:C	1.91	1.00
1:B:2201:LEU:N	1:B:2662:TYR:OH	1.94	1.00
1:B:2348:VAL:HB	1:B:2353:THR:HB	1.03	1.00
1:B:2622:ASP:CB	1:B:2628:PHE:CD2	2.43	1.00
1:D:510:MET:O	1:D:515:ILE:CG2	2.09	1.00
1:D:2713:SER:C	1:D:2716:LEU:HD21	1.81	1.00
1:C:300:ASN:OD1	1:B:2730:LYS:HA	1.59	1.00
1:C:453:LEU:HA	1:C:521:LYS:NZ	1.76	1.00
1:B:2388:LEU:HD23	1:B:2388:LEU:H	1.26	1.00
1:B:2560:GLU:O	1:B:2563:PHE:HB2	1.58	1.00
1:C:2009:CYS:O	1:C:2013:SER:N	1.93	1.00
1:C:2403:ALA:O	1:C:2408:VAL:HG23	1.56	1.00
1:D:2243:PHE:HE1	1:D:2642:LEU:HD13	1.27	1.00
1:C:300:ASN:OD1	1:B:2730:LYS:CB	2.10	1.00
1:D:2732:ARG:HB3	1:D:2732:ARG:HH11	1.21	1.00
1:A:2201:LEU:N	1:A:2662:TYR:OH	1.94	1.00
1:C:108:ARG:HG3	1:C:108:ARG:HH11	1.24	1.00
1:B:2412:PHE:O	1:B:2413:TYR:C	1.98	1.00
1:A:300:ASN:OD1	1:D:2730:LYS:CA	2.10	0.99
1:A:457:ALA:HB2	1:A:521:LYS:HG3	1.01	0.99
1:A:2243:PHE:HE1	1:A:2642:LEU:HD13	1.27	0.99
1:C:2287:MET:O	1:C:2290:LEU:CB	2.10	0.99
1:D:2401:ILE:CD1	1:D:2416:LEU:CD2	2.39	0.99
1:A:453:LEU:HA	1:A:521:LYS:NZ	1.76	0.99
1:C:89:LEU:HA	1:C:92:LEU:CD2	1.65	0.99
1:B:2189:TYR:O	1:B:2192:HIS:C	2.00	0.99
1:C:569:LYS:HE2	2:C:2801:JYP:C12	1.91	0.99
1:B:510:MET:O	1:B:515:ILE:CG2	2.09	0.99
1:B:602:ASN:O	1:B:606:LEU:N	1.93	0.99
1:D:2288:ASN:O	1:D:2291:VAL:HG23	1.62	0.99
1:A:2288:ASN:O	1:A:2291:VAL:HG23	1.62	0.99
1:C:2345:ILE:HD13	1:C:2356:LEU:HD21	1.26	0.99
1:B:453:LEU:HA	1:B:521:LYS:NZ	1.76	0.99
1:D:108:ARG:HH11	1:D:108:ARG:HG3	1.24	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2288:ASN:O	1:C:2291:VAL:HG23	1.62	0.99
1:C:2343:ARG:O	1:C:2346:PHE:HD2	1.38	0.99
1:D:2412:PHE:O	1:D:2413:TYR:C	1.99	0.99
1:A:2189:TYR:O	1:A:2192:HIS:C	2.00	0.99
1:B:2433:SER:HB2	1:B:2593:PHE:CD2	1.97	0.99
1:A:442:ASP:OD1	1:A:483:PHE:HE2	1.31	0.99
1:A:2433:SER:HB2	1:A:2593:PHE:CD2	1.97	0.99
1:C:2713:SER:C	1:C:2716:LEU:HD21	1.81	0.99
1:B:2713:SER:C	1:B:2716:LEU:HD21	1.81	0.99
1:A:74:LYS:HA	1:A:74:LYS:NZ	1.78	0.99
1:B:2433:SER:OG	1:B:2593:PHE:HE2	1.45	0.99
1:D:2285:VAL:C	1:D:2287:MET:H	1.66	0.99
1:A:2401:ILE:CD1	1:A:2416:LEU:CD2	2.39	0.98
1:B:263:PHE:HE2	1:B:265:ARG:HE	1.03	0.98
1:C:2713:SER:HB2	1:B:2715:GLN:HE22	1.25	0.98
1:B:2287:MET:O	1:B:2290:LEU:CB	2.11	0.98
1:D:2189:TYR:O	1:D:2192:HIS:C	2.00	0.98
1:A:2348:VAL:HG11	1:A:2353:THR:CG2	1.93	0.98
1:C:2576:MET:CE	1:C:2576:MET:HA	1.91	0.98
1:A:2401:ILE:HG12	1:A:2416:LEU:HD22	1.19	0.98
1:A:2649:LYS:NZ	1:A:2649:LYS:HA	1.79	0.98
1:C:2348:VAL:HB	1:C:2353:THR:CG2	1.87	0.98
1:D:74:LYS:HA	1:D:74:LYS:NZ	1.78	0.98
1:A:2348:VAL:HB	1:A:2353:THR:HB	1.02	0.98
1:C:2285:VAL:O	1:C:2287:MET:N	1.96	0.98
1:B:74:LYS:HA	1:B:74:LYS:NZ	1.78	0.98
1:B:457:ALA:HB2	1:B:521:LYS:HG3	1.01	0.98
1:B:2348:VAL:CG1	1:B:2353:THR:HB	1.82	0.98
1:D:2287:MET:O	1:D:2290:LEU:CB	2.10	0.98
1:A:508:LYS:NZ	2:A:2801:JYP:O18	1.96	0.98
1:A:2696:ARG:NH1	1:D:2696:ARG:NH2	1.91	0.98
1:C:2243:PHE:HZ	1:C:2638:MET:HB3	1.28	0.98
1:B:72:PHE:CE1	1:B:93:HIS:HB2	1.98	0.98
1:B:2348:VAL:HG11	1:B:2353:THR:CG2	1.93	0.98
1:D:2348:VAL:HG11	1:D:2353:THR:CG2	1.93	0.98
1:D:2433:SER:HB2	1:D:2593:PHE:CD2	1.97	0.98
1:D:2649:LYS:HA	1:D:2649:LYS:NZ	1.79	0.98
1:A:300:ASN:CG	1:D:2730:LYS:HG2	1.83	0.98
1:A:2287:MET:O	1:A:2290:LEU:CB	2.10	0.98
1:A:2362:VAL:CA	1:A:2402:CYS:SG	2.52	0.98
1:C:300:ASN:OD1	1:B:2730:LYS:CA	2.12	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2586:PHE:HA	1:B:2583:ASN:ND2	1.77	0.98
1:A:2576:MET:CE	1:A:2580:ILE:CG1	2.41	0.98
1:C:2348:VAL:HG11	1:C:2353:THR:CG2	1.93	0.98
1:C:2361:ASN:HD21	1:C:2401:ILE:HD11	0.84	0.98
1:C:2637:ASN:HD22	1:C:2640:HIS:CD2	1.72	0.98
1:B:2401:ILE:HD13	1:B:2416:LEU:HD22	1.45	0.98
1:D:508:LYS:NZ	2:D:2801:JYP:O18	1.96	0.98
1:C:2433:SER:HB2	1:C:2593:PHE:CD2	1.97	0.98
1:C:2649:LYS:HA	1:C:2649:LYS:NZ	1.79	0.98
1:D:2576:MET:CE	1:D:2576:MET:HA	1.91	0.98
1:A:2285:VAL:O	1:A:2287:MET:N	1.96	0.97
1:A:2345:ILE:HD13	1:A:2356:LEU:HD21	1.26	0.97
1:A:2401:ILE:HD13	1:A:2416:LEU:HD22	1.45	0.97
1:A:2586:PHE:CD1	1:D:2583:ASN:HB3	1.99	0.97
1:C:263:PHE:HE2	1:C:265:ARG:HE	1.03	0.97
1:B:2576:MET:CE	1:B:2576:MET:HA	1.91	0.97
1:D:2285:VAL:O	1:D:2287:MET:N	1.96	0.97
1:A:2343:ARG:O	1:A:2346:PHE:HD2	1.38	0.97
1:C:2349:GLY:O	1:C:2352:PRO:HD2	1.64	0.97
1:C:2239:LYS:CG	1:C:2240:ILE:H	1.74	0.97
1:D:72:PHE:CE1	1:D:93:HIS:HB2	1.97	0.97
1:D:2388:LEU:HD23	1:D:2388:LEU:H	1.25	0.97
1:A:72:PHE:CE1	1:A:93:HIS:HB2	1.98	0.97
1:A:2434:VAL:CG2	1:D:2584:LEU:HD11	1.95	0.97
1:A:2576:MET:CE	1:A:2576:MET:HA	1.91	0.97
1:C:508:LYS:NZ	2:C:2801:JYP:O18	1.96	0.97
1:C:2558:LYS:HD2	1:C:2560:GLU:CG	1.95	0.97
1:C:2576:MET:CE	1:C:2580:ILE:CG1	2.42	0.97
1:C:2586:PHE:HA	1:B:2583:ASN:HD21	1.29	0.97
1:B:2361:ASN:HD21	1:B:2401:ILE:HD11	0.84	0.97
1:D:2210:PHE:CD2	1:D:2647:LEU:CD2	2.47	0.97
1:D:2239:LYS:CG	1:D:2240:ILE:H	1.74	0.97
1:C:74:LYS:HA	1:C:74:LYS:NZ	1.78	0.97
1:C:457:ALA:HB2	1:C:521:LYS:HG3	1.01	0.97
1:D:2576:MET:CE	1:D:2580:ILE:CG1	2.41	0.97
1:C:72:PHE:CE1	1:C:93:HIS:HB2	1.97	0.97
1:C:2433:SER:HB3	1:C:2593:PHE:CE1	2.00	0.97
1:C:2583:ASN:OD1	1:D:2589:ILE:CG2	2.12	0.97
1:B:2362:VAL:CA	1:B:2402:CYS:SG	2.52	0.97
1:D:2272:ASN:C	1:D:2276:TRP:HD1	1.66	0.97
1:D:2452:VAL:HG23	1:D:2573:PHE:HE1	1.24	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2558:LYS:HD2	1:D:2560:GLU:CG	1.95	0.97
1:B:92:LEU:HD22	1:B:92:LEU:H	1.29	0.97
1:D:2362:VAL:CA	1:D:2402:CYS:SG	2.52	0.97
1:A:2239:LYS:CG	1:A:2240:ILE:H	1.74	0.97
1:C:2348:VAL:CG1	1:C:2353:THR:HB	1.82	0.97
1:B:2576:MET:CE	1:B:2580:ILE:CG1	2.41	0.97
1:A:520:PHE:CE1	1:A:523:LEU:HD12	2.00	0.97
1:C:2210:PHE:HD2	1:C:2647:LEU:HD23	1.29	0.97
1:A:2715:GLN:HE21	1:B:2713:SER:CB	1.72	0.97
1:B:508:LYS:NZ	2:B:2801:JYP:O18	1.96	0.97
1:B:520:PHE:CE1	1:B:523:LEU:HD12	2.00	0.97
1:B:2210:PHE:HD2	1:B:2647:LEU:HD23	1.29	0.97
1:B:2288:ASN:O	1:B:2291:VAL:HG23	1.62	0.97
1:D:89:LEU:HA	1:D:92:LEU:CD2	1.65	0.96
1:D:2433:SER:HB3	1:D:2593:PHE:CE1	2.00	0.96
1:A:92:LEU:HD22	1:A:92:LEU:H	1.29	0.96
1:A:2213:PRO:HG3	1:A:2647:LEU:HA	1.46	0.96
1:C:2243:PHE:HE1	1:C:2642:LEU:HD13	1.27	0.96
1:B:2210:PHE:HE2	1:B:2647:LEU:HD21	1.30	0.96
1:B:2401:ILE:CD1	1:B:2416:LEU:CD2	2.39	0.96
1:A:2433:SER:OG	1:A:2593:PHE:HE2	1.45	0.96
1:C:2210:PHE:CD2	1:C:2647:LEU:CD2	2.47	0.96
1:C:2348:VAL:CG1	1:C:2353:THR:CG2	2.43	0.96
1:C:2401:ILE:CG1	1:C:2416:LEU:CD2	2.24	0.96
1:C:2401:ILE:HD13	1:C:2416:LEU:HD22	1.44	0.96
1:B:2285:VAL:O	1:B:2287:MET:N	1.96	0.96
1:B:2649:LYS:HA	1:B:2649:LYS:NZ	1.79	0.96
1:C:2271:ARG:HH11	1:C:2272:ASN:ND2	1.52	0.96
1:B:2343:ARG:O	1:B:2346:PHE:HD2	1.38	0.96
1:B:2558:LYS:HD2	1:B:2560:GLU:CG	1.95	0.96
1:D:520:PHE:CE1	1:D:523:LEU:HD12	2.00	0.96
1:D:2271:ARG:HH11	1:D:2272:ASN:ND2	1.52	0.96
1:A:2021:LEU:O	1:A:2024:TYR:N	1.99	0.96
1:C:2362:VAL:CA	1:C:2402:CYS:SG	2.52	0.96
1:B:2433:SER:HB3	1:B:2593:PHE:CE1	2.00	0.96
1:D:2348:VAL:CB	1:D:2353:THR:HG21	1.91	0.96
1:A:2388:LEU:HD23	1:A:2388:LEU:H	1.25	0.96
1:D:89:LEU:O	1:D:92:LEU:CD2	2.14	0.96
1:A:89:LEU:O	1:A:92:LEU:CD2	2.14	0.96
1:C:520:PHE:CE1	1:C:523:LEU:HD12	2.00	0.96
1:C:2272:ASN:O	1:C:2276:TRP:CD1	2.19	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2021:LEU:O	1:B:2024:TYR:N	1.99	0.96
1:D:2401:ILE:HD13	1:D:2416:LEU:HD22	1.44	0.96
1:A:69:GLN:N	1:A:100:LYS:HZ1	1.47	0.96
1:A:300:ASN:OD1	1:D:2730:LYS:HA	1.66	0.96
1:C:2621:PHE:O	1:C:2624:LYS:HG3	1.66	0.96
1:B:2210:PHE:CD2	1:B:2647:LEU:CD2	2.47	0.96
1:B:2559:GLU:OE2	1:B:2562:LEU:HG	1.66	0.96
1:D:2621:PHE:O	1:D:2624:LYS:HG3	1.66	0.96
1:A:2621:PHE:O	1:A:2624:LYS:HG3	1.66	0.96
1:D:2219:LEU:HD21	1:D:2254:MET:CE	1.96	0.96
1:B:89:LEU:O	1:B:92:LEU:HD23	1.66	0.95
1:A:2285:VAL:C	1:A:2287:MET:H	1.66	0.95
1:C:1313:GLN:O	1:C:1317:LYS:N	1.99	0.95
1:C:2285:VAL:HG21	1:C:2417:LEU:CD1	1.97	0.95
1:B:2219:LEU:HD21	1:B:2254:MET:CE	1.96	0.95
1:A:2288:ASN:O	1:A:2291:VAL:CG2	2.14	0.95
1:A:2345:ILE:HG23	1:A:2353:THR:HG1	1.25	0.95
1:B:2239:LYS:CG	1:B:2240:ILE:H	1.74	0.95
1:D:1313:GLN:O	1:D:1317:LYS:N	1.99	0.95
1:A:1317:LYS:C	1:A:1385:CYS:C	2.24	0.95
1:A:2272:ASN:C	1:A:2276:TRP:HD1	1.66	0.95
1:A:2272:ASN:O	1:A:2276:TRP:CD1	2.19	0.95
1:A:2559:GLU:OE2	1:A:2562:LEU:HG	1.66	0.95
1:C:2288:ASN:CA	1:C:2413:TYR:HB3	1.96	0.95
1:D:1317:LYS:C	1:D:1385:CYS:C	2.24	0.95
1:C:2288:ASN:O	1:C:2291:VAL:CG2	2.14	0.95
1:B:1317:LYS:C	1:B:1385:CYS:C	2.24	0.95
1:B:2243:PHE:HE1	1:B:2642:LEU:HD13	1.27	0.95
1:B:2272:ASN:O	1:B:2276:TRP:CD1	2.19	0.95
1:B:2285:VAL:HG21	1:B:2417:LEU:CD1	1.97	0.95
1:A:2348:VAL:CG1	1:A:2353:THR:HB	1.82	0.95
1:A:2433:SER:HB3	1:A:2593:PHE:CE1	2.00	0.95
1:C:89:LEU:O	1:C:92:LEU:CD2	2.14	0.95
1:C:92:LEU:HD22	1:C:92:LEU:H	1.29	0.95
1:B:2271:ARG:HH11	1:B:2272:ASN:ND2	1.52	0.95
1:D:89:LEU:O	1:D:92:LEU:HD23	1.66	0.95
1:A:2558:LYS:HD2	1:A:2560:GLU:CG	1.95	0.95
1:C:2559:GLU:OE2	1:C:2562:LEU:HG	1.66	0.95
1:B:299:TRP:HH2	1:B:377:GLY:O	1.50	0.95
1:B:2586:PHE:O	1:B:2589:ILE:N	2.00	0.95
1:B:646:PRO:C	1:B:648:THR:N	2.10	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2213:PRO:HG3	1:D:2647:LEU:HA	1.46	0.95
1:D:2288:ASN:O	1:D:2291:VAL:CG2	2.14	0.95
1:D:2578:ILE:HD11	1:D:2582:LEU:HD12	1.48	0.95
1:A:2573:PHE:CE1	1:A:2577:VAL:CG2	2.50	0.95
1:C:2021:LEU:O	1:C:2023:LEU:N	2.00	0.95
1:C:2433:SER:OG	1:C:2593:PHE:HE2	1.45	0.95
1:B:89:LEU:O	1:B:92:LEU:CD2	2.14	0.95
1:B:1313:GLN:O	1:B:1317:LYS:N	1.99	0.95
1:A:2219:LEU:HD21	1:A:2254:MET:CE	1.96	0.95
1:A:2586:PHE:O	1:A:2589:ILE:N	2.00	0.95
1:C:144:LYS:CB	1:D:1302:HIS:CA	2.45	0.95
1:C:2219:LEU:HD21	1:C:2254:MET:CE	1.96	0.95
1:C:2715:GLN:HE21	1:D:2713:SER:CB	1.80	0.95
1:D:2285:VAL:HG21	1:D:2417:LEU:CD1	1.97	0.95
1:D:2288:ASN:CA	1:D:2413:TYR:HB3	1.96	0.95
1:D:2559:GLU:OE2	1:D:2562:LEU:HG	1.66	0.95
1:C:646:PRO:C	1:C:648:THR:N	2.10	0.94
1:B:2288:ASN:CA	1:B:2413:TYR:HB3	1.96	0.94
1:D:2559:GLU:HG2	1:D:2562:LEU:HD23	1.49	0.94
1:A:1313:GLN:O	1:A:1317:LYS:N	1.99	0.94
1:A:2702:LEU:CD1	1:D:2700:GLU:HG3	1.81	0.94
1:C:2586:PHE:O	1:C:2589:ILE:N	2.00	0.94
1:D:92:LEU:HD22	1:D:92:LEU:H	1.29	0.94
1:C:1317:LYS:C	1:C:1385:CYS:C	2.24	0.94
1:C:2649:LYS:C	1:C:2650:VAL:HG22	1.88	0.94
1:B:2452:VAL:HG23	1:B:2573:PHE:HE1	1.24	0.94
1:D:1961:ALA:O	1:D:1962:VAL:C	2.06	0.94
1:D:2573:PHE:CE1	1:D:2577:VAL:CG2	2.50	0.94
1:A:2273:MET:HA	1:A:2276:TRP:CD1	2.02	0.94
1:A:2288:ASN:CA	1:A:2413:TYR:HB3	1.96	0.94
1:A:2700:GLU:HG2	1:B:2702:LEU:HD12	0.95	0.94
1:D:2649:LYS:C	1:D:2650:VAL:HG22	1.88	0.94
1:A:2271:ARG:HH11	1:A:2272:ASN:ND2	1.52	0.94
1:B:2637:ASN:HD22	1:B:2640:HIS:CD2	1.72	0.94
1:A:571:GLN:CG	1:A:574:ILE:HD11	1.98	0.94
1:A:2713:SER:HB2	1:D:2715:GLN:HE22	1.09	0.94
1:B:2243:PHE:CE1	1:B:2642:LEU:HD13	1.99	0.94
1:C:89:LEU:O	1:C:92:LEU:HD23	1.66	0.94
1:C:2345:ILE:C	1:C:2348:VAL:HG13	1.87	0.94
1:B:2288:ASN:O	1:B:2291:VAL:CG2	2.14	0.94
1:D:2021:LEU:O	1:D:2024:TYR:N	1.99	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:508:LYS:HE3	1:C:511:ARG:HH11	1.33	0.94
1:C:2213:PRO:HG3	1:C:2647:LEU:CB	1.91	0.94
1:C:2559:GLU:HG2	1:C:2562:LEU:HD23	1.49	0.94
1:B:2273:MET:HA	1:B:2276:TRP:CD1	2.02	0.94
1:B:2285:VAL:C	1:B:2287:MET:N	2.17	0.94
1:B:2349:GLY:O	1:B:2352:PRO:HD2	1.64	0.94
1:B:2578:ILE:HD11	1:B:2582:LEU:HD12	1.48	0.94
1:D:2213:PRO:HG3	1:D:2647:LEU:CG	1.98	0.94
1:D:2243:PHE:HZ	1:D:2638:MET:HB3	1.28	0.94
1:D:2349:GLY:O	1:D:2352:PRO:HD2	1.64	0.94
1:D:2637:ASN:HD22	1:D:2640:HIS:CD2	1.72	0.94
1:A:2216:CYS:SG	1:A:2646:VAL:CG1	2.56	0.94
1:A:2700:GLU:OE1	1:B:2699:GLN:CA	2.15	0.94
1:B:508:LYS:HE3	1:B:511:ARG:HH11	1.33	0.94
1:D:2348:VAL:HB	1:D:2353:THR:CG2	1.87	0.94
1:A:299:TRP:HH2	1:A:377:GLY:O	1.50	0.94
1:A:2213:PRO:HG3	1:A:2647:LEU:CB	1.91	0.94
1:C:2239:LYS:NZ	1:C:2677:ARG:HD2	1.83	0.94
1:B:2021:LEU:O	1:B:2023:LEU:N	2.00	0.94
1:B:2573:PHE:CE1	1:B:2577:VAL:CG2	2.50	0.94
1:B:2621:PHE:O	1:B:2624:LYS:HG3	1.66	0.94
1:D:2272:ASN:O	1:D:2276:TRP:CD1	2.19	0.94
1:D:2273:MET:HA	1:D:2276:TRP:CD1	2.02	0.94
1:A:2213:PRO:HG3	1:A:2647:LEU:CG	1.98	0.93
1:A:2547:GLY:HA2	1:B:2546:GLY:H	1.31	0.93
1:C:2021:LEU:O	1:C:2024:TYR:N	1.99	0.93
1:B:2216:CYS:SG	1:B:2646:VAL:CG1	2.56	0.93
1:B:2243:PHE:HZ	1:B:2638:MET:HB3	1.28	0.93
1:D:299:TRP:HH2	1:D:377:GLY:O	1.50	0.93
1:D:520:PHE:CE1	1:D:523:LEU:CD1	2.51	0.93
1:A:2348:VAL:CB	1:A:2353:THR:HG21	1.91	0.93
1:C:2273:MET:HA	1:C:2276:TRP:CD1	2.02	0.93
1:B:2213:PRO:HG3	1:B:2647:LEU:HA	1.46	0.93
1:B:2239:LYS:NZ	1:B:2677:ARG:HD2	1.83	0.93
1:D:237:GLY:CA	1:D:283:GLU:OE2	2.17	0.93
1:A:2285:VAL:HG21	1:A:2417:LEU:CD1	1.97	0.93
1:C:2412:PHE:O	1:C:2413:TYR:C	1.98	0.93
1:B:520:PHE:CE1	1:B:523:LEU:CD1	2.51	0.93
1:D:1455:LEU:O	1:D:1507:PRO:CA	2.17	0.93
1:D:2216:CYS:SG	1:D:2646:VAL:CG1	2.56	0.93
1:A:520:PHE:CE1	1:A:523:LEU:CD1	2.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1455:LEU:O	1:A:1507:PRO:CA	2.17	0.93
1:A:2243:PHE:HZ	1:A:2638:MET:HB3	1.27	0.93
1:C:69:GLN:N	1:C:100:LYS:HZ3	1.50	0.93
1:C:237:GLY:CA	1:C:283:GLU:OE2	2.17	0.93
1:C:2710:THR:HB	1:B:2707:LYS:HZ2	1.24	0.93
1:A:2021:LEU:O	1:A:2023:LEU:N	2.00	0.93
1:C:299:TRP:HH2	1:C:377:GLY:O	1.50	0.93
1:C:520:PHE:CE1	1:C:523:LEU:CD1	2.51	0.93
1:C:2623:ASN:CG	1:B:2677:ARG:HH21	1.71	0.93
1:B:1455:LEU:O	1:B:1507:PRO:CA	2.17	0.93
1:D:2345:ILE:C	1:D:2348:VAL:HG13	1.87	0.93
1:A:2452:VAL:HG23	1:A:2573:PHE:HE1	1.24	0.93
1:C:1455:LEU:O	1:C:1507:PRO:CA	2.17	0.93
1:C:2401:ILE:HG12	1:C:2416:LEU:HD21	1.50	0.93
1:B:2649:LYS:C	1:B:2650:VAL:HG22	1.88	0.93
1:A:2239:LYS:NZ	1:A:2677:ARG:HD2	1.83	0.93
1:A:2345:ILE:C	1:A:2348:VAL:HG13	1.87	0.93
1:C:2578:ILE:HD11	1:C:2582:LEU:HD12	1.48	0.93
1:D:2021:LEU:O	1:D:2023:LEU:N	2.00	0.93
1:A:2412:PHE:O	1:A:2413:TYR:C	1.99	0.93
1:A:2649:LYS:C	1:A:2650:VAL:HG22	1.88	0.93
1:C:2452:VAL:HG23	1:C:2573:PHE:HE1	1.24	0.93
1:C:2573:PHE:CE1	1:C:2577:VAL:CG2	2.50	0.93
1:D:571:GLN:CG	1:D:574:ILE:HD11	1.98	0.93
1:D:2401:ILE:HG12	1:D:2416:LEU:HD22	1.19	0.93
1:A:237:GLY:CA	1:A:283:GLU:OE2	2.17	0.93
1:A:2210:PHE:CD2	1:A:2647:LEU:CD2	2.47	0.93
1:B:2345:ILE:C	1:B:2348:VAL:HG13	1.87	0.93
1:C:2213:PRO:HG3	1:C:2647:LEU:CG	1.98	0.93
1:B:571:GLN:CG	1:B:574:ILE:HD11	1.98	0.93
1:A:646:PRO:C	1:A:648:THR:N	2.10	0.92
1:A:2583:ASN:HD21	1:B:2586:PHE:HA	1.03	0.92
1:C:2216:CYS:SG	1:C:2646:VAL:CG1	2.56	0.92
1:C:2348:VAL:CG1	1:C:2353:THR:HG21	1.99	0.92
1:A:2578:ILE:HD11	1:A:2582:LEU:HD12	1.48	0.92
1:A:2583:ASN:OD1	1:B:2589:ILE:CG2	2.16	0.92
1:C:2348:VAL:HG11	1:C:2353:THR:HG21	1.51	0.92
1:D:2586:PHE:O	1:D:2589:ILE:N	2.00	0.92
1:A:2285:VAL:C	1:A:2287:MET:N	2.17	0.92
1:B:2345:ILE:HG23	1:B:2353:THR:HG1	1.30	0.92
1:B:2433:SER:OG	1:B:2593:PHE:HZ	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2339:SER:HA	1:D:2342:LEU:HD12	1.52	0.92
1:D:2348:VAL:HG11	1:D:2353:THR:HG21	1.51	0.92
1:A:2210:PHE:HE2	1:A:2647:LEU:HD21	1.30	0.92
1:B:237:GLY:CA	1:B:283:GLU:OE2	2.17	0.92
1:B:2213:PRO:HG3	1:B:2647:LEU:CG	1.98	0.92
1:D:2343:ARG:C	1:D:2346:PHE:HD2	1.73	0.92
1:D:2401:ILE:HG12	1:D:2416:LEU:HD21	1.50	0.92
1:A:89:LEU:O	1:A:92:LEU:HD23	1.66	0.92
1:A:2343:ARG:CA	1:A:2346:PHE:HD2	1.83	0.92
1:A:2579:ILE:O	1:A:2580:ILE:C	1.96	0.92
1:C:571:GLN:CG	1:C:574:ILE:HD11	1.98	0.92
1:A:89:LEU:HA	1:A:92:LEU:CD2	1.65	0.92
1:C:2365:LYS:HE2	1:C:2398:TYR:HB3	1.52	0.92
1:B:2272:ASN:C	1:B:2276:TRP:HD1	1.67	0.92
1:B:2339:SER:HA	1:B:2342:LEU:HD12	1.52	0.92
1:C:2236:GLN:HB3	1:D:2619:ASP:OD1	1.70	0.92
1:C:2343:ARG:C	1:C:2346:PHE:HD2	1.73	0.92
1:B:2343:ARG:CA	1:B:2346:PHE:HD2	1.83	0.92
1:D:2239:LYS:NZ	1:D:2677:ARG:HD2	1.83	0.92
1:D:2365:LYS:HE2	1:D:2398:TYR:HB3	1.52	0.92
1:A:2412:PHE:O	1:A:2415:LEU:N	2.02	0.92
1:B:69:GLN:N	1:B:100:LYS:HZ1	1.50	0.92
1:B:102:GLN:OE1	1:B:106:GLU:OE2	1.88	0.92
1:A:2339:SER:HA	1:A:2342:LEU:HD12	1.52	0.92
1:B:2412:PHE:O	1:B:2415:LEU:N	2.02	0.92
1:D:508:LYS:HE3	1:D:511:ARG:HH11	1.33	0.92
1:D:2210:PHE:HD2	1:D:2647:LEU:HD23	1.29	0.92
1:D:2412:PHE:O	1:D:2415:LEU:N	2.02	0.92
1:A:2365:LYS:HE2	1:A:2398:TYR:HB3	1.52	0.91
1:B:2285:VAL:C	1:B:2287:MET:H	1.66	0.91
1:D:69:GLN:N	1:D:100:LYS:HZ1	1.50	0.91
1:D:2285:VAL:C	1:D:2287:MET:N	2.17	0.91
1:A:453:LEU:O	1:A:521:LYS:CE	2.18	0.91
1:A:508:LYS:HE3	1:A:511:ARG:HH11	1.33	0.91
1:A:2349:GLY:O	1:A:2352:PRO:HD2	1.64	0.91
1:A:2559:GLU:HG2	1:A:2562:LEU:HD23	1.49	0.91
1:B:453:LEU:O	1:B:521:LYS:CE	2.18	0.91
1:A:2566:ARG:NH2	1:A:2570:ASP:OD2	2.04	0.91
1:C:2272:ASN:C	1:C:2276:TRP:HD1	1.66	0.91
1:D:646:PRO:C	1:D:648:THR:N	2.10	0.91
1:D:2343:ARG:CA	1:D:2346:PHE:HD2	1.83	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:GLN:OE1	1:A:106:GLU:OE2	1.88	0.91
1:A:2343:ARG:C	1:A:2346:PHE:HD2	1.73	0.91
1:B:2566:ARG:NH2	1:B:2570:ASP:OD2	2.04	0.91
1:C:2210:PHE:HE2	1:C:2647:LEU:HD21	1.31	0.91
1:C:2343:ARG:CA	1:C:2346:PHE:HD2	1.83	0.91
1:C:2339:SER:HA	1:C:2342:LEU:HD12	1.52	0.91
1:C:2412:PHE:O	1:C:2415:LEU:N	2.02	0.91
1:D:2566:ARG:NH2	1:D:2570:ASP:OD2	2.04	0.91
1:A:2348:VAL:CG1	1:A:2353:THR:CG2	2.43	0.91
1:A:2713:SER:CA	1:A:2716:LEU:HD21	2.01	0.91
1:C:2213:PRO:HG3	1:C:2647:LEU:HA	1.46	0.91
1:C:2566:ARG:NH2	1:C:2570:ASP:OD2	2.04	0.91
1:C:32:LEU:CB	1:C:445:PHE:CD2	2.54	0.91
1:C:840:VAL:O	1:C:844:LEU:N	2.03	0.91
1:B:2213:PRO:HG3	1:B:2647:LEU:CB	1.91	0.91
1:B:2348:VAL:HG11	1:B:2353:THR:HG21	1.51	0.91
1:B:2365:LYS:HE2	1:B:2398:TYR:HB3	1.52	0.91
1:D:840:VAL:O	1:D:844:LEU:N	2.04	0.91
1:C:102:GLN:OE1	1:C:106:GLU:OE2	1.88	0.91
1:C:2213:PRO:HG3	1:C:2647:LEU:HD13	1.53	0.91
1:C:2213:PRO:CG	1:C:2647:LEU:HD13	2.01	0.91
1:B:840:VAL:O	1:B:844:LEU:N	2.04	0.91
1:D:2210:PHE:HE2	1:D:2647:LEU:HD21	1.31	0.91
1:A:2348:VAL:HG11	1:A:2353:THR:HG21	1.51	0.91
1:A:2637:ASN:CB	1:A:2640:HIS:CD2	2.50	0.91
1:C:2433:SER:OG	1:C:2593:PHE:HZ	1.52	0.91
1:C:2579:ILE:O	1:C:2580:ILE:C	1.96	0.91
1:C:2623:ASN:OD1	1:B:2677:ARG:HD3	1.70	0.91
1:B:32:LEU:CB	1:B:445:PHE:CD2	2.54	0.91
1:B:2348:VAL:CG1	1:B:2353:THR:HG21	1.99	0.91
1:D:127:LYS:O	1:D:441:ARG:CD	2.19	0.91
1:D:2189:TYR:O	1:D:2192:HIS:N	2.04	0.91
1:D:2345:ILE:HG23	1:D:2353:THR:HG1	1.36	0.91
1:A:127:LYS:O	1:A:441:ARG:CD	2.19	0.90
1:A:2348:VAL:CG1	1:A:2353:THR:HG21	1.99	0.90
1:B:2401:ILE:HG12	1:B:2416:LEU:HD21	1.50	0.90
1:B:525:ALA:HB3	1:B:526:PRO:HD2	1.54	0.90
1:D:2348:VAL:CG1	1:D:2353:THR:HG21	1.99	0.90
1:D:2713:SER:CA	1:D:2716:LEU:HD21	2.01	0.90
1:A:840:VAL:O	1:A:844:LEU:N	2.03	0.90
1:C:2583:ASN:HD21	1:D:2586:PHE:HA	1.28	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:127:LYS:O	1:B:441:ARG:CD	2.19	0.90
1:B:554:ARG:HG2	1:B:554:ARG:HH11	1.37	0.90
1:B:1961:ALA:O	1:B:1962:VAL:C	2.06	0.90
1:A:2401:ILE:HG12	1:A:2416:LEU:HD21	1.50	0.90
1:B:2213:PRO:CG	1:B:2647:LEU:HD13	2.01	0.90
1:D:2576:MET:HA	1:D:2576:MET:HE3	1.53	0.90
1:A:2619:ASP:OD1	1:D:2236:GLN:HB3	1.71	0.90
1:C:453:LEU:O	1:C:521:LYS:CE	2.18	0.90
1:C:2189:TYR:O	1:C:2192:HIS:N	2.04	0.90
1:C:2243:PHE:CE1	1:C:2642:LEU:HD13	1.99	0.90
1:C:2273:MET:N	1:C:2276:TRP:HD1	1.70	0.90
1:C:2343:ARG:C	1:C:2346:PHE:CD2	2.44	0.90
1:D:2243:PHE:CZ	1:D:2638:MET:CB	2.55	0.90
1:D:2348:VAL:CG1	1:D:2353:THR:HB	1.82	0.90
1:D:2372:PHE:HD2	1:D:2395:HIS:HD1	1.20	0.90
1:D:2433:SER:OG	1:D:2593:PHE:HE2	1.45	0.90
1:A:2343:ARG:C	1:A:2346:PHE:CD2	2.44	0.90
1:C:127:LYS:O	1:C:441:ARG:CD	2.19	0.90
1:C:554:ARG:HG2	1:C:554:ARG:HH11	1.37	0.90
1:B:2343:ARG:C	1:B:2346:PHE:HD2	1.73	0.90
1:B:2713:SER:CA	1:B:2716:LEU:HD21	2.01	0.90
1:A:2213:PRO:CG	1:A:2647:LEU:HD13	2.01	0.90
1:A:2637:ASN:HD22	1:A:2640:HIS:CD2	1.73	0.90
1:B:2213:PRO:HG3	1:B:2647:LEU:HD13	1.53	0.90
1:D:1245:CYS:C	1:D:1247:GLY:H	1.75	0.90
1:C:2364:ASN:O	1:C:2367:ILE:HG13	1.72	0.90
1:C:2584:LEU:CD1	1:D:2434:VAL:HG21	2.00	0.90
1:A:32:LEU:CB	1:A:445:PHE:CD2	2.54	0.90
1:A:2210:PHE:HD2	1:A:2647:LEU:HD23	1.29	0.90
1:A:2385:ALA:O	1:A:2389:ASP:OD2	1.90	0.90
1:A:2707:LYS:CE	1:B:2706:MET:O	2.19	0.90
1:B:2372:PHE:HD2	1:B:2395:HIS:HD1	1.19	0.90
1:D:102:GLN:OE1	1:D:106:GLU:OE2	1.88	0.90
1:D:453:LEU:O	1:D:521:LYS:CE	2.18	0.90
1:D:1209:GLY:O	1:D:1259:ILE:O	1.90	0.90
1:D:2637:ASN:CB	1:D:2640:HIS:CD2	2.50	0.90
1:C:2713:SER:CA	1:C:2716:LEU:HD21	2.01	0.90
1:B:2189:TYR:O	1:B:2192:HIS:N	2.04	0.90
1:B:2364:ASN:O	1:B:2367:ILE:HG13	1.72	0.90
1:B:2559:GLU:HG2	1:B:2562:LEU:HD23	1.49	0.90
1:D:32:LEU:CB	1:D:445:PHE:CD2	2.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2213:PRO:HG3	1:D:2647:LEU:CB	1.91	0.90
1:D:2213:PRO:CG	1:D:2647:LEU:HD13	2.01	0.90
1:A:2243:PHE:CE2	1:A:2638:MET:CB	2.53	0.89
1:C:265:ARG:CZ	1:C:265:ARG:HA	2.03	0.89
1:C:2285:VAL:C	1:C:2287:MET:H	1.66	0.89
1:B:1209:GLY:O	1:B:1259:ILE:O	1.90	0.89
1:A:1245:CYS:C	1:A:1247:GLY:H	1.75	0.89
1:C:511:ARG:CZ	1:C:570:ASN:OD1	2.21	0.89
1:B:571:GLN:HG3	1:B:574:ILE:HD11	1.55	0.89
1:B:1245:CYS:C	1:B:1247:GLY:H	1.74	0.89
1:A:2189:TYR:O	1:A:2192:HIS:N	2.04	0.89
1:A:2273:MET:N	1:A:2276:TRP:HD1	1.70	0.89
1:C:525:ALA:HB3	1:C:526:PRO:HD2	1.54	0.89
1:C:1209:GLY:O	1:C:1259:ILE:O	1.90	0.89
1:C:1961:ALA:O	1:C:1962:VAL:C	2.06	0.89
1:C:1961:ALA:O	1:C:1964:THR:N	2.06	0.89
1:C:2637:ASN:CB	1:C:2640:HIS:CD2	2.50	0.89
1:B:265:ARG:HA	1:B:265:ARG:CZ	2.02	0.89
1:B:638:CYS:O	1:B:642:ASN:CA	2.21	0.89
1:D:265:ARG:HA	1:D:265:ARG:CZ	2.02	0.89
1:C:2243:PHE:CZ	1:C:2638:MET:CB	2.54	0.89
1:B:2343:ARG:C	1:B:2346:PHE:CD2	2.44	0.89
1:D:547:ALA:HB1	1:D:548:PRO:HD3	1.55	0.89
1:A:265:ARG:CZ	1:A:265:ARG:HA	2.03	0.89
1:A:525:ALA:HB3	1:A:526:PRO:HD2	1.54	0.89
1:A:557:TYR:HA	1:A:560:LEU:HD12	1.54	0.89
1:A:2364:ASN:O	1:A:2367:ILE:HG13	1.72	0.89
1:A:2586:PHE:HA	1:D:2583:ASN:HD21	1.33	0.89
1:B:514:ASN:C	1:B:516:LEU:N	2.23	0.89
1:B:557:TYR:HA	1:B:560:LEU:HD12	1.55	0.89
1:B:1961:ALA:O	1:B:1964:THR:N	2.06	0.89
1:B:2273:MET:N	1:B:2276:TRP:HD1	1.70	0.89
1:B:2348:VAL:CB	1:B:2353:THR:HG21	1.91	0.89
1:B:2637:ASN:CB	1:B:2640:HIS:CD2	2.50	0.89
1:A:449:ALA:O	1:A:453:LEU:CD2	2.21	0.89
1:A:1209:GLY:O	1:A:1259:ILE:O	1.90	0.89
1:C:638:CYS:O	1:C:642:ASN:CA	2.21	0.89
1:B:72:PHE:HD1	1:B:93:HIS:HB2	1.37	0.89
1:D:2273:MET:N	1:D:2276:TRP:HD1	1.70	0.89
1:A:1961:ALA:O	1:A:1964:THR:N	2.06	0.89
1:B:511:ARG:CZ	1:B:570:ASN:OD1	2.21	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2433:SER:OG	1:A:2593:PHE:HZ	1.52	0.89
1:C:2385:ALA:O	1:C:2389:ASP:OD2	1.90	0.89
1:D:2213:PRO:HG3	1:D:2647:LEU:HD13	1.53	0.89
1:D:2364:ASN:O	1:D:2367:ILE:HG13	1.72	0.89
1:D:2385:ALA:O	1:D:2389:ASP:OD2	1.90	0.89
1:C:522:LEU:HD21	1:C:553:CYS:SG	2.13	0.89
1:D:449:ALA:O	1:D:453:LEU:CD2	2.21	0.89
1:D:511:ARG:CZ	1:D:570:ASN:OD1	2.21	0.89
1:C:557:TYR:HA	1:C:560:LEU:HD12	1.54	0.89
1:A:571:GLN:HG3	1:A:574:ILE:HD11	1.54	0.88
1:B:2579:ILE:O	1:B:2580:ILE:C	1.96	0.88
1:D:571:GLN:HG3	1:D:574:ILE:HD11	1.55	0.88
1:A:1961:ALA:O	1:A:1962:VAL:C	2.06	0.88
1:A:2706:MET:O	1:D:2707:LYS:HE2	1.73	0.88
1:C:2243:PHE:CE2	1:C:2638:MET:CB	2.53	0.88
1:D:2433:SER:O	1:D:2434:VAL:HG22	1.73	0.88
1:A:442:ASP:OD1	1:A:483:PHE:CD2	2.27	0.88
1:D:1961:ALA:O	1:D:1964:THR:N	2.06	0.88
1:D:2343:ARG:C	1:D:2346:PHE:CD2	2.44	0.88
1:A:102:GLN:O	1:A:106:GLU:HG3	1.74	0.88
1:A:638:CYS:O	1:A:642:ASN:CA	2.21	0.88
1:A:2433:SER:O	1:A:2434:VAL:HG22	1.73	0.88
1:C:449:ALA:O	1:C:453:LEU:CD2	2.21	0.88
1:B:2622:ASP:OD1	1:B:2628:PHE:CZ	2.26	0.88
1:D:557:TYR:HA	1:D:560:LEU:HD12	1.54	0.88
1:D:2618:ARG:NH2	1:D:2618:ARG:HB3	1.89	0.88
1:A:1248:ASN:CA	1:A:1252:GLN:N	2.37	0.88
1:C:1245:CYS:C	1:C:1247:GLY:H	1.74	0.88
1:C:2285:VAL:C	1:C:2287:MET:N	2.17	0.88
1:B:442:ASP:OD1	1:B:483:PHE:CD2	2.27	0.88
1:B:449:ALA:O	1:B:453:LEU:CD2	2.21	0.88
1:B:2637:ASN:HB3	1:B:2640:HIS:HD2	1.39	0.88
1:D:514:ASN:C	1:D:516:LEU:N	2.23	0.88
1:D:571:GLN:CB	1:D:574:ILE:HD11	2.04	0.88
1:A:511:ARG:CZ	1:A:570:ASN:OD1	2.21	0.88
1:A:2213:PRO:HG3	1:A:2647:LEU:HD13	1.53	0.88
1:A:2273:MET:HA	1:A:2276:TRP:HD1	1.35	0.88
1:A:2586:PHE:CE1	1:D:2583:ASN:HB2	2.06	0.88
1:B:2273:MET:CA	1:B:2276:TRP:HD1	1.86	0.88
1:B:2618:ARG:NH2	1:B:2618:ARG:HB3	1.89	0.88
1:A:554:ARG:HG2	1:A:554:ARG:HH11	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:571:GLN:CB	1:A:574:ILE:HD11	2.04	0.88
1:C:574:ILE:O	1:C:577:GLN:HB2	1.74	0.88
1:C:2622:ASP:OD1	1:C:2628:PHE:CZ	2.26	0.88
1:B:237:GLY:HA3	1:B:283:GLU:OE2	1.74	0.88
1:B:522:LEU:HD21	1:B:553:CYS:SG	2.13	0.88
1:B:2710:THR:HG23	1:B:2711:ASN:HD22	1.38	0.88
1:A:522:LEU:HD21	1:A:553:CYS:SG	2.13	0.88
1:A:2710:THR:HG23	1:A:2711:ASN:HD22	1.38	0.88
1:C:2433:SER:O	1:C:2434:VAL:HG22	1.73	0.88
1:C:2576:MET:HA	1:C:2576:MET:HE3	1.55	0.88
1:C:2637:ASN:HB3	1:C:2640:HIS:HD2	1.39	0.88
1:B:102:GLN:O	1:B:106:GLU:HG3	1.74	0.88
1:B:1116:LYS:O	1:B:1119:LEU:N	2.07	0.88
1:D:522:LEU:HD21	1:D:553:CYS:SG	2.13	0.88
1:D:1116:LYS:O	1:D:1119:LEU:N	2.07	0.88
1:C:2273:MET:CA	1:C:2276:TRP:HD1	1.86	0.88
1:C:102:GLN:O	1:C:106:GLU:HG3	1.74	0.88
1:C:393:LEU:HD21	1:B:2737:GLY:O	1.73	0.88
1:C:547:ALA:HB1	1:C:548:PRO:HD3	1.55	0.88
1:D:1209:GLY:HA2	1:D:1259:ILE:O	1.74	0.88
1:A:2618:ARG:HB3	1:A:2618:ARG:NH2	1.89	0.87
1:C:2720:LYS:O	1:C:2720:LYS:NZ	2.07	0.87
1:D:638:CYS:O	1:D:642:ASN:CA	2.21	0.87
1:A:2273:MET:CA	1:A:2276:TRP:HD1	1.86	0.87
1:A:2622:ASP:OD1	1:A:2628:PHE:CZ	2.26	0.87
1:C:514:ASN:C	1:C:516:LEU:N	2.23	0.87
1:C:2618:ARG:NH2	1:C:2618:ARG:HB3	1.89	0.87
1:B:2720:LYS:NZ	1:B:2720:LYS:O	2.07	0.87
1:A:1116:LYS:O	1:A:1119:LEU:N	2.07	0.87
1:A:2343:ARG:HA	1:A:2346:PHE:HD2	1.38	0.87
1:C:1334:LEU:O	1:C:1338:GLY:N	2.08	0.87
1:B:2372:PHE:HD2	1:B:2395:HIS:ND1	1.73	0.87
1:B:2433:SER:O	1:B:2434:VAL:HG22	1.73	0.87
1:D:102:GLN:O	1:D:106:GLU:HG3	1.74	0.87
1:D:525:ALA:HB3	1:D:526:PRO:HD2	1.54	0.87
1:A:237:GLY:HA3	1:A:283:GLU:OE2	1.74	0.87
1:A:2243:PHE:CZ	1:A:2638:MET:CB	2.54	0.87
1:C:237:GLY:HA3	1:C:283:GLU:OE2	1.73	0.87
1:B:1209:GLY:HA2	1:B:1259:ILE:O	1.74	0.87
1:B:2385:ALA:O	1:B:2389:ASP:OD2	1.90	0.87
1:D:2433:SER:OG	1:D:2593:PHE:HZ	1.52	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2637:ASN:HB3	1:D:2640:HIS:HD2	1.39	0.87
1:A:2239:LYS:HG2	1:A:2240:ILE:N	1.90	0.87
1:C:2021:LEU:O	1:C:2022:GLY:C	2.11	0.87
1:B:1248:ASN:CA	1:B:1252:GLN:N	2.37	0.87
1:B:2243:PHE:CZ	1:B:2638:MET:CB	2.54	0.87
1:A:72:PHE:HD1	1:A:93:HIS:HB2	1.37	0.87
1:A:574:ILE:O	1:A:577:GLN:HB2	1.74	0.87
1:A:760:ASP:O	1:A:762:ASP:N	2.07	0.87
1:A:2720:LYS:O	1:A:2720:LYS:NZ	2.07	0.87
1:C:571:GLN:HG3	1:C:574:ILE:HD11	1.55	0.87
1:C:1116:LYS:O	1:C:1119:LEU:N	2.07	0.87
1:C:2372:PHE:HD2	1:C:2395:HIS:ND1	1.73	0.87
1:B:2021:LEU:O	1:B:2022:GLY:C	2.11	0.87
1:D:2219:LEU:HD21	1:D:2254:MET:HE1	1.57	0.87
1:A:2637:ASN:HB3	1:A:2640:HIS:HD2	1.39	0.87
1:B:760:ASP:O	1:B:762:ASP:N	2.07	0.87
1:D:2710:THR:HG23	1:D:2711:ASN:HD22	1.38	0.87
1:A:2372:PHE:HD2	1:A:2395:HIS:ND1	1.73	0.87
1:C:2681:MET:HG3	1:C:2682:SER:O	1.75	0.87
1:D:442:ASP:OD1	1:D:483:PHE:CD2	2.27	0.87
1:D:1248:ASN:CA	1:D:1252:GLN:N	2.37	0.87
1:D:2681:MET:HG3	1:D:2682:SER:O	1.75	0.87
1:C:72:PHE:HD1	1:C:93:HIS:HB2	1.37	0.87
1:C:263:PHE:HE2	1:C:265:ARG:NE	1.73	0.87
1:C:1248:ASN:CA	1:C:1252:GLN:N	2.37	0.87
1:C:2271:ARG:NH1	1:C:2272:ASN:OD1	2.07	0.87
1:C:2578:ILE:CD1	1:C:2582:LEU:HD12	2.05	0.87
1:D:237:GLY:HA3	1:D:283:GLU:OE2	1.74	0.87
1:C:2583:ASN:HB2	1:D:2586:PHE:CE1	2.09	0.86
1:B:2273:MET:HA	1:B:2276:TRP:HD1	1.35	0.86
1:B:2681:MET:HG3	1:B:2682:SER:O	1.75	0.86
1:D:554:ARG:HG2	1:D:554:ARG:HH11	1.36	0.86
1:D:2713:SER:O	1:D:2716:LEU:CD2	2.23	0.86
1:A:2713:SER:O	1:A:2716:LEU:CD2	2.23	0.86
1:C:442:ASP:OD1	1:C:483:PHE:CD2	2.27	0.86
1:C:1209:GLY:HA2	1:C:1259:ILE:O	1.74	0.86
1:C:2586:PHE:CD1	1:B:2583:ASN:CB	2.55	0.86
1:B:1334:LEU:O	1:B:1338:GLY:N	2.08	0.86
1:B:2271:ARG:NH1	1:B:2272:ASN:OD1	2.07	0.86
1:B:2578:ILE:CD1	1:B:2582:LEU:HD12	2.05	0.86
1:D:574:ILE:O	1:D:577:GLN:HB2	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:760:ASP:O	1:D:762:ASP:N	2.07	0.86
1:D:2273:MET:CA	1:D:2276:TRP:HD1	1.86	0.86
1:A:2271:ARG:NH1	1:A:2272:ASN:OD1	2.07	0.86
1:C:760:ASP:O	1:C:762:ASP:N	2.07	0.86
1:C:2288:ASN:HA	1:C:2413:TYR:HB3	1.56	0.86
1:C:2710:THR:HG23	1:C:2711:ASN:HD22	1.38	0.86
1:B:574:ILE:O	1:B:577:GLN:HB2	1.74	0.86
1:D:1334:LEU:O	1:D:1338:GLY:N	2.08	0.86
1:A:567:TYR:HB2	1:A:571:GLN:CD	1.96	0.86
1:A:2243:PHE:CE1	1:A:2642:LEU:HD13	1.99	0.86
1:C:2200:ARG:HD2	1:C:2662:TYR:CG	2.11	0.86
1:C:2345:ILE:HD13	1:C:2356:LEU:HD23	1.57	0.86
1:B:2370:MET:HA	1:B:2370:MET:CE	2.05	0.86
1:D:2720:LYS:O	1:D:2720:LYS:NZ	2.07	0.86
1:C:2271:ARG:HH11	1:C:2272:ASN:CG	1.75	0.86
1:B:263:PHE:HE2	1:B:265:ARG:NE	1.73	0.86
1:B:571:GLN:CB	1:B:574:ILE:HD11	2.04	0.86
1:D:1209:GLY:CA	1:D:1259:ILE:O	2.24	0.86
1:D:2239:LYS:HG2	1:D:2240:ILE:N	1.90	0.86
1:D:2288:ASN:HA	1:D:2413:TYR:HB3	1.56	0.86
1:D:2372:PHE:HD2	1:D:2395:HIS:ND1	1.73	0.86
1:D:2622:ASP:OD1	1:D:2628:PHE:CZ	2.26	0.86
1:A:2681:MET:HG3	1:A:2682:SER:O	1.75	0.86
1:C:571:GLN:CB	1:C:574:ILE:HD11	2.04	0.86
1:C:1209:GLY:CA	1:C:1259:ILE:O	2.24	0.86
1:D:2273:MET:HA	1:D:2276:TRP:HD1	1.35	0.86
1:D:2343:ARG:HA	1:D:2346:PHE:HD2	1.38	0.86
1:A:2576:MET:HE3	1:A:2580:ILE:HG13	1.58	0.86
1:C:2370:MET:HA	1:C:2370:MET:CE	2.05	0.86
1:D:2578:ILE:CD1	1:D:2582:LEU:HD12	2.05	0.86
1:C:453:LEU:CA	1:C:521:LYS:NZ	2.38	0.86
1:C:2713:SER:O	1:C:2716:LEU:CD2	2.23	0.86
1:B:2239:LYS:HG2	1:B:2240:ILE:N	1.90	0.86
1:B:2713:SER:O	1:B:2716:LEU:CD2	2.23	0.86
1:D:2200:ARG:HD2	1:D:2662:TYR:CG	2.11	0.86
1:A:2345:ILE:HD13	1:A:2356:LEU:HD23	1.57	0.86
1:A:2370:MET:HA	1:A:2370:MET:CE	2.05	0.86
1:B:2288:ASN:HB3	1:B:2413:TYR:HB3	1.58	0.86
1:A:1209:GLY:HA2	1:A:1259:ILE:O	1.74	0.86
1:A:1334:LEU:O	1:A:1338:GLY:N	2.08	0.86
1:A:2200:ARG:HD2	1:A:2662:TYR:CG	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2285:VAL:HG13	1:A:2286:LEU:N	1.91	0.86
1:C:2343:ARG:HA	1:C:2346:PHE:HD2	1.38	0.86
1:B:508:LYS:HE3	1:B:511:ARG:NH1	1.91	0.86
1:B:2200:ARG:HD2	1:B:2662:TYR:CG	2.11	0.86
1:D:2278:SER:O	1:D:2281:PHE:CD2	2.13	0.86
1:A:2348:VAL:HG12	1:A:2353:THR:OG1	1.76	0.85
1:B:299:TRP:CH2	1:B:377:GLY:O	2.29	0.85
1:D:263:PHE:HE2	1:D:265:ARG:NE	1.73	0.85
1:D:2271:ARG:NH1	1:D:2272:ASN:OD1	2.07	0.85
1:C:508:LYS:HE3	1:C:511:ARG:NH1	1.91	0.85
1:B:2707:LYS:HD2	1:B:2711:ASN:HD21	1.41	0.85
1:A:2707:LYS:HD2	1:A:2711:ASN:HD21	1.42	0.85
1:C:2178:GLY:C	1:C:2186:LEU:HD21	1.97	0.85
1:D:2285:VAL:HG13	1:D:2286:LEU:N	1.91	0.85
1:D:2370:MET:HA	1:D:2370:MET:CE	2.05	0.85
1:A:1317:LYS:C	1:A:1385:CYS:CA	2.45	0.85
1:B:2178:GLY:C	1:B:2186:LEU:HD21	1.97	0.85
1:D:453:LEU:CA	1:D:521:LYS:NZ	2.38	0.85
1:D:2178:GLY:C	1:D:2186:LEU:HD21	1.97	0.85
1:D:2345:ILE:HD13	1:D:2356:LEU:HD23	1.57	0.85
1:A:72:PHE:O	1:A:75:ALA:CB	2.25	0.85
1:A:453:LEU:CA	1:A:521:LYS:NZ	2.38	0.85
1:A:263:PHE:HE2	1:A:265:ARG:NE	1.73	0.85
1:A:2178:GLY:C	1:A:2186:LEU:HD21	1.97	0.85
1:C:2288:ASN:HB3	1:C:2413:TYR:HB3	1.58	0.85
1:C:2348:VAL:CB	1:C:2353:THR:HG21	1.91	0.85
1:C:2649:LYS:HA	1:C:2649:LYS:HZ2	1.38	0.85
1:B:72:PHE:O	1:B:75:ALA:CB	2.25	0.85
1:B:2216:CYS:SG	1:B:2646:VAL:HG11	2.17	0.85
1:D:1317:LYS:C	1:D:1385:CYS:CA	2.45	0.85
1:D:2288:ASN:HB2	1:D:2413:TYR:HB3	1.58	0.85
1:D:2715:GLN:NE2	1:D:2715:GLN:HA	1.91	0.85
1:A:508:LYS:HE3	1:A:511:ARG:NH1	1.91	0.85
1:A:514:ASN:C	1:A:516:LEU:N	2.23	0.85
1:A:1209:GLY:CA	1:A:1259:ILE:O	2.24	0.85
1:A:2288:ASN:HB3	1:A:2413:TYR:HB3	1.58	0.85
1:B:567:TYR:HB2	1:B:571:GLN:CD	1.96	0.85
1:B:1317:LYS:C	1:B:1385:CYS:CA	2.45	0.85
1:B:2345:ILE:HD13	1:B:2356:LEU:HD23	1.57	0.85
1:A:299:TRP:CH2	1:A:377:GLY:O	2.29	0.85
1:A:2288:ASN:HA	1:A:2413:TYR:HB3	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2578:ILE:CD1	1:A:2582:LEU:HD12	2.05	0.85
1:C:299:TRP:CH2	1:C:377:GLY:O	2.29	0.85
1:C:2239:LYS:HG2	1:C:2240:ILE:N	1.90	0.85
1:B:2285:VAL:HG13	1:B:2286:LEU:N	1.91	0.85
1:D:2348:VAL:HG12	1:D:2353:THR:OG1	1.76	0.85
1:D:2707:LYS:HD2	1:D:2711:ASN:HD21	1.42	0.85
1:A:2178:GLY:O	1:A:2186:LEU:HD21	1.76	0.85
1:C:2707:LYS:HD2	1:C:2711:ASN:HD21	1.42	0.85
1:B:1209:GLY:CA	1:B:1259:ILE:O	2.24	0.85
1:D:299:TRP:CH2	1:D:377:GLY:O	2.29	0.85
1:D:2178:GLY:O	1:D:2186:LEU:HD21	1.76	0.85
1:A:2191:LYS:O	1:A:2192:HIS:HB2	1.77	0.85
1:A:2372:PHE:HD2	1:A:2395:HIS:HD1	1.19	0.85
1:C:1317:LYS:C	1:C:1385:CYS:CA	2.45	0.85
1:B:453:LEU:CA	1:B:521:LYS:NZ	2.38	0.85
1:B:2288:ASN:HA	1:B:2413:TYR:HB3	1.56	0.85
1:D:508:LYS:HE3	1:D:511:ARG:NH1	1.91	0.85
1:A:265:ARG:HA	1:A:265:ARG:NE	1.92	0.84
1:A:2216:CYS:SG	1:A:2646:VAL:HG11	2.17	0.84
1:A:2423:ARG:O	1:A:2423:ARG:NH2	2.10	0.84
1:C:2423:ARG:O	1:C:2423:ARG:NH2	2.10	0.84
1:C:2434:VAL:CG2	1:B:2584:LEU:HD11	2.04	0.84
1:B:2343:ARG:HA	1:B:2346:PHE:HD2	1.38	0.84
1:D:2021:LEU:O	1:D:2022:GLY:C	2.11	0.84
1:D:2216:CYS:SG	1:D:2646:VAL:HG11	2.17	0.84
1:D:2423:ARG:O	1:D:2423:ARG:NH2	2.10	0.84
1:A:2021:LEU:O	1:A:2022:GLY:C	2.11	0.84
1:C:300:ASN:CG	1:B:2730:LYS:HG2	1.97	0.84
1:C:2288:ASN:HB2	1:C:2413:TYR:HB3	1.58	0.84
1:B:2178:GLY:O	1:B:2186:LEU:HD21	1.76	0.84
1:D:2579:ILE:O	1:D:2580:ILE:C	1.97	0.84
1:A:460:LEU:O	1:A:463:GLY:O	1.95	0.84
1:A:2360:PHE:HA	1:A:2363:CYS:SG	2.18	0.84
1:C:2216:CYS:SG	1:C:2646:VAL:HG11	2.17	0.84
1:C:2452:VAL:HG23	1:C:2573:PHE:CZ	2.13	0.84
1:D:567:TYR:HB2	1:D:571:GLN:CD	1.96	0.84
1:B:460:LEU:O	1:B:463:GLY:O	1.95	0.84
1:B:2273:MET:N	1:B:2276:TRP:CD1	2.45	0.84
1:B:2360:PHE:HA	1:B:2363:CYS:SG	2.18	0.84
1:D:460:LEU:O	1:D:463:GLY:O	1.95	0.84
1:D:2243:PHE:CE1	1:D:2642:LEU:HD13	1.99	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:884:LEU:O	1:A:888:THR:N	2.10	0.84
1:D:72:PHE:O	1:D:75:ALA:CB	2.25	0.84
1:D:2288:ASN:HB3	1:D:2413:TYR:HB3	1.58	0.84
1:D:2452:VAL:HG23	1:D:2573:PHE:CZ	2.13	0.84
1:C:72:PHE:O	1:C:75:ALA:CB	2.25	0.84
1:C:2273:MET:HA	1:C:2276:TRP:HD1	1.35	0.84
1:B:2219:LEU:HD21	1:B:2254:MET:HE2	1.55	0.84
1:D:2343:ARG:O	1:D:2346:PHE:HD2	1.38	0.84
1:D:2348:VAL:CG1	1:D:2353:THR:CG2	2.43	0.84
1:A:2288:ASN:HB2	1:A:2413:TYR:HB3	1.58	0.84
1:A:2695:LEU:O	1:A:2697:ASN:N	2.11	0.84
1:C:2370:MET:HA	1:C:2370:MET:HE3	1.57	0.84
1:B:509:LEU:O	1:B:509:LEU:HD22	1.78	0.84
1:B:2423:ARG:NH2	1:B:2423:ARG:O	2.10	0.84
1:B:2452:VAL:HG23	1:B:2573:PHE:CZ	2.13	0.84
1:D:74:LYS:HA	1:D:74:LYS:HZ3	1.39	0.84
1:D:2191:LYS:O	1:D:2192:HIS:HB2	1.77	0.84
1:A:509:LEU:O	1:A:509:LEU:HD22	1.78	0.84
1:A:2348:VAL:HG12	1:A:2353:THR:CB	2.07	0.84
1:A:2452:VAL:HG23	1:A:2573:PHE:CZ	2.13	0.84
1:C:567:TYR:HB2	1:C:571:GLN:CD	1.96	0.84
1:C:2178:GLY:O	1:C:2186:LEU:HD21	1.76	0.84
1:B:1995:THR:O	1:B:1998:ASN:O	1.96	0.84
1:D:884:LEU:O	1:D:888:THR:N	2.10	0.84
1:D:2695:LEU:O	1:D:2697:ASN:N	2.11	0.84
1:A:1995:THR:O	1:A:1998:ASN:O	1.96	0.84
1:A:2219:LEU:HD21	1:A:2254:MET:HE2	1.59	0.84
1:C:2285:VAL:HG13	1:C:2286:LEU:N	1.91	0.84
1:A:516:LEU:H	1:A:516:LEU:HD12	1.43	0.84
1:A:2273:MET:N	1:A:2276:TRP:CD1	2.45	0.84
1:A:2706:MET:HG2	1:D:2703:GLU:OE2	1.76	0.84
1:C:509:LEU:O	1:C:509:LEU:HD22	1.78	0.84
1:C:884:LEU:O	1:C:888:THR:N	2.10	0.84
1:C:1209:GLY:C	1:C:1259:ILE:O	2.17	0.84
1:C:2360:PHE:HA	1:C:2363:CYS:SG	2.18	0.84
1:C:2447:LEU:HD13	1:D:2427:LEU:HD11	1.59	0.84
1:C:2710:THR:HB	1:B:2707:LYS:HZ3	1.05	0.84
1:A:393:LEU:HD21	1:D:2737:GLY:O	1.77	0.83
1:D:509:LEU:O	1:D:512:GLU:HB3	1.78	0.83
1:D:2360:PHE:HA	1:D:2363:CYS:SG	2.18	0.83
1:C:265:ARG:HA	1:C:265:ARG:NE	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:652:ILE:O	1:C:656:VAL:N	2.11	0.83
1:C:2715:GLN:NE2	1:C:2715:GLN:HA	1.91	0.83
1:B:2695:LEU:O	1:B:2697:ASN:N	2.11	0.83
1:C:2348:VAL:HG12	1:C:2353:THR:CB	2.07	0.83
1:A:32:LEU:CB	1:A:445:PHE:CE1	2.61	0.83
1:C:453:LEU:HA	1:C:521:LYS:HZ2	1.34	0.83
1:C:2219:LEU:HD21	1:C:2254:MET:HE2	1.59	0.83
1:C:2707:LYS:CE	1:D:2706:MET:O	2.25	0.83
1:B:265:ARG:HA	1:B:265:ARG:NE	1.92	0.83
1:B:509:LEU:O	1:B:512:GLU:HB3	1.78	0.83
1:B:516:LEU:H	1:B:516:LEU:HD12	1.43	0.83
1:B:2216:CYS:SG	1:B:2646:VAL:HG22	2.19	0.83
1:A:453:LEU:O	1:A:521:LYS:NZ	2.12	0.83
1:A:2216:CYS:SG	1:A:2646:VAL:HG22	2.19	0.83
1:B:2271:ARG:HH11	1:B:2272:ASN:CG	1.75	0.83
1:B:2348:VAL:HG12	1:B:2353:THR:OG1	1.76	0.83
1:B:2576:MET:HE3	1:B:2580:ILE:HG13	1.59	0.83
1:A:509:LEU:O	1:A:512:GLU:HB3	1.78	0.83
1:A:547:ALA:HB1	1:A:548:PRO:HD3	1.55	0.83
1:A:2571:LEU:O	1:A:2574:PHE:HB3	1.78	0.83
1:C:32:LEU:CB	1:C:445:PHE:CE1	2.61	0.83
1:C:270:GLN:C	1:C:272:ALA:N	2.30	0.83
1:C:1313:GLN:O	1:C:1316:VAL:C	2.17	0.83
1:B:453:LEU:O	1:B:521:LYS:NZ	2.12	0.83
1:B:2288:ASN:HB2	1:B:2413:TYR:HB3	1.58	0.83
1:D:32:LEU:CB	1:D:445:PHE:CE1	2.61	0.83
1:C:2571:LEU:O	1:C:2574:PHE:HB3	1.78	0.83
1:D:2348:VAL:HG12	1:D:2353:THR:CB	2.07	0.83
1:A:1313:GLN:O	1:A:1316:VAL:C	2.17	0.83
1:C:453:LEU:CA	1:C:521:LYS:HZ2	1.90	0.83
1:C:516:LEU:H	1:C:516:LEU:HD12	1.43	0.83
1:B:2571:LEU:O	1:B:2574:PHE:HB3	1.78	0.83
1:C:547:ALA:CB	1:C:548:PRO:CD	2.17	0.83
1:C:2348:VAL:HG12	1:C:2353:THR:OG1	1.76	0.83
1:C:2372:PHE:HD2	1:C:2395:HIS:HD1	1.19	0.83
1:B:884:LEU:O	1:B:888:THR:N	2.10	0.83
1:B:1209:GLY:C	1:B:1259:ILE:O	2.17	0.83
1:D:265:ARG:HA	1:D:265:ARG:NE	1.92	0.83
1:D:509:LEU:O	1:D:509:LEU:HD22	1.78	0.83
1:D:1313:GLN:O	1:D:1316:VAL:C	2.17	0.83
1:D:2239:LYS:NZ	1:D:2677:ARG:CD	2.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:460:LEU:O	1:C:463:GLY:O	1.95	0.83
1:C:2695:LEU:O	1:C:2697:ASN:N	2.11	0.83
1:B:2715:GLN:NE2	1:B:2715:GLN:HA	1.91	0.83
1:C:2191:LYS:O	1:C:2192:HIS:HB2	1.77	0.82
1:C:2700:GLU:OE1	1:D:2699:GLN:CA	2.24	0.82
1:B:2288:ASN:CB	1:B:2413:TYR:CB	2.56	0.82
1:B:2399:LEU:O	1:B:2399:LEU:HD22	1.79	0.82
1:D:270:GLN:C	1:D:272:ALA:N	2.30	0.82
1:D:516:LEU:HD12	1:D:516:LEU:H	1.43	0.82
1:D:1995:THR:O	1:D:1998:ASN:O	1.96	0.82
1:C:453:LEU:O	1:C:521:LYS:NZ	2.12	0.82
1:B:1209:GLY:O	1:B:1259:ILE:CA	2.27	0.82
1:B:2348:VAL:CG1	1:B:2353:THR:CG2	2.43	0.82
1:D:453:LEU:O	1:D:521:LYS:NZ	2.12	0.82
1:D:2571:LEU:O	1:D:2574:PHE:HB3	1.78	0.82
1:A:2429:ASN:OD1	1:A:2432:LYS:HE2	1.79	0.82
1:A:2623:ASN:CG	1:D:2677:ARG:NH2	2.32	0.82
1:A:2677:ARG:NH2	1:B:2623:ASN:CG	2.33	0.82
1:B:2191:LYS:O	1:B:2192:HIS:HB2	1.77	0.82
1:D:2343:ARG:HA	1:D:2346:PHE:CD2	2.15	0.82
1:A:69:GLN:H	1:A:100:LYS:NZ	1.76	0.82
1:A:2399:LEU:O	1:A:2399:LEU:HD22	1.79	0.82
1:A:2586:PHE:CD1	1:D:2583:ASN:CB	2.61	0.82
1:C:2715:GLN:HE22	1:D:2713:SER:HB2	1.03	0.82
1:D:2213:PRO:CA	1:D:2647:LEU:HD13	2.10	0.82
1:A:1209:GLY:C	1:A:1259:ILE:O	2.17	0.82
1:A:2278:SER:O	1:A:2281:PHE:CD2	2.13	0.82
1:A:2396:LEU:O	1:A:2396:LEU:HD22	1.79	0.82
1:C:2239:LYS:NZ	1:C:2677:ARG:CD	2.42	0.82
1:C:2343:ARG:HA	1:C:2346:PHE:CD2	2.14	0.82
1:C:2396:LEU:O	1:C:2396:LEU:HD22	1.79	0.82
1:B:2213:PRO:CA	1:B:2647:LEU:HD13	2.10	0.82
1:D:2288:ASN:CB	1:D:2413:TYR:CB	2.56	0.82
1:A:2584:LEU:HD11	1:B:2434:VAL:HG21	0.90	0.82
1:B:652:ILE:O	1:B:656:VAL:N	2.11	0.82
1:B:1313:GLN:O	1:B:1316:VAL:C	2.17	0.82
1:D:514:ASN:HD22	1:D:517:LYS:CD	1.93	0.82
1:D:2425:GLU:O	1:D:2428:LEU:HB3	1.80	0.82
1:A:2200:ARG:CB	1:A:2662:TYR:CE2	2.63	0.82
1:C:77:LYS:HZ2	1:C:77:LYS:H	1.27	0.82
1:B:2200:ARG:CB	1:B:2662:TYR:CE2	2.63	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1209:GLY:C	1:D:1259:ILE:O	2.17	0.82
1:A:270:GLN:C	1:A:272:ALA:N	2.30	0.82
1:A:2213:PRO:CA	1:A:2647:LEU:HD13	2.10	0.82
1:A:2239:LYS:NZ	1:A:2677:ARG:CD	2.42	0.82
1:A:2715:GLN:NE2	1:A:2715:GLN:HA	1.91	0.82
1:C:509:LEU:O	1:C:512:GLU:HB3	1.78	0.82
1:C:1995:THR:O	1:C:1998:ASN:O	1.96	0.82
1:B:32:LEU:CB	1:B:445:PHE:CE1	2.61	0.82
1:B:456:ILE:HB	1:B:521:LYS:HZ2	1.45	0.82
1:D:453:LEU:HA	1:D:521:LYS:HZ2	1.41	0.82
1:D:2399:LEU:O	1:D:2399:LEU:HD22	1.79	0.82
1:A:2341:ILE:HD11	1:A:2360:PHE:HE2	1.45	0.82
1:C:2278:SER:O	1:C:2281:PHE:CD2	2.13	0.82
1:C:2425:GLU:O	1:C:2428:LEU:HB3	1.80	0.82
1:B:2341:ILE:HD11	1:B:2360:PHE:HE2	1.45	0.82
1:B:2425:GLU:O	1:B:2428:LEU:HB3	1.80	0.82
1:A:2699:GLN:CA	1:D:2700:GLU:OE1	2.26	0.82
1:C:2399:LEU:O	1:C:2399:LEU:HD22	1.79	0.82
1:B:460:LEU:CD2	1:B:465:ILE:HG23	2.06	0.82
1:B:2239:LYS:NZ	1:B:2677:ARG:CD	2.42	0.82
1:D:652:ILE:O	1:D:656:VAL:N	2.11	0.82
1:D:2586:PHE:O	1:D:2588:VAL:N	2.13	0.82
1:C:1209:GLY:O	1:C:1259:ILE:CA	2.27	0.81
1:B:69:GLN:H	1:B:100:LYS:NZ	1.76	0.81
1:D:2707:LYS:O	1:D:2710:THR:HG22	1.80	0.81
1:A:2239:LYS:HZ3	1:A:2677:ARG:HD2	1.45	0.81
1:C:1979:ASN:O	1:C:1980:HIS:O	1.98	0.81
1:C:2288:ASN:CB	1:C:2413:TYR:CB	2.56	0.81
1:B:77:LYS:HZ2	1:B:77:LYS:H	1.28	0.81
1:B:2429:ASN:OD1	1:B:2432:LYS:HE2	1.79	0.81
1:B:2576:MET:HA	1:B:2576:MET:HE3	1.60	0.81
1:B:2586:PHE:O	1:B:2588:VAL:N	2.13	0.81
1:D:1209:GLY:O	1:D:1259:ILE:CA	2.27	0.81
1:D:2046:GLY:O	1:D:2048:CYS:N	2.14	0.81
1:A:2046:GLY:O	1:A:2048:CYS:N	2.14	0.81
1:A:2343:ARG:HA	1:A:2346:PHE:CD2	2.14	0.81
1:A:2583:ASN:HB2	1:B:2586:PHE:CZ	2.16	0.81
1:A:2700:GLU:CD	1:B:2699:GLN:HA	1.99	0.81
1:A:2713:SER:HA	1:A:2716:LEU:HD21	1.63	0.81
1:C:2216:CYS:SG	1:C:2646:VAL:HG22	2.19	0.81
1:C:2677:ARG:NH2	1:D:2623:ASN:CG	2.32	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:270:GLN:C	1:B:272:ALA:N	2.30	0.81
1:B:2396:LEU:O	1:B:2396:LEU:HD22	1.79	0.81
1:D:77:LYS:HZ2	1:D:77:LYS:H	1.27	0.81
1:D:2271:ARG:HH11	1:D:2272:ASN:CG	1.75	0.81
1:B:2343:ARG:HA	1:B:2346:PHE:CD2	2.14	0.81
1:B:2401:ILE:HD13	1:B:2416:LEU:CD2	2.08	0.81
1:D:2586:PHE:O	1:D:2587:GLY:C	2.17	0.81
1:A:1209:GLY:O	1:A:1259:ILE:CA	2.27	0.81
1:D:511:ARG:NE	1:D:570:ASN:OD1	2.14	0.81
1:D:2216:CYS:SG	1:D:2646:VAL:HG22	2.19	0.81
1:D:2341:ILE:HD11	1:D:2360:PHE:HE2	1.45	0.81
1:D:2396:LEU:O	1:D:2396:LEU:HD22	1.79	0.81
1:A:456:ILE:HB	1:A:521:LYS:HZ2	1.45	0.81
1:A:2586:PHE:O	1:A:2588:VAL:N	2.13	0.81
1:A:2714:GLY:O	1:A:2717:SER:OG	1.98	0.81
1:B:547:ALA:HB1	1:B:548:PRO:HD3	1.55	0.81
1:D:72:PHE:HD1	1:D:93:HIS:HB2	1.37	0.81
1:A:2219:LEU:HD21	1:A:2254:MET:HE1	1.63	0.81
1:A:2273:MET:CB	1:A:2371:SER:OG	2.28	0.81
1:C:69:GLN:H	1:C:100:LYS:NZ	1.76	0.81
1:C:511:ARG:NE	1:C:570:ASN:OD1	2.14	0.81
1:C:2586:PHE:O	1:C:2588:VAL:N	2.13	0.81
1:D:511:ARG:NH1	1:D:570:ASN:OD1	2.14	0.81
1:D:2239:LYS:HZ2	1:D:2677:ARG:NE	1.79	0.81
1:D:2429:ASN:OD1	1:D:2432:LYS:HE2	1.79	0.81
1:D:2576:MET:HE3	1:D:2580:ILE:HG13	1.61	0.81
1:A:77:LYS:HZ2	1:A:77:LYS:H	1.28	0.81
1:A:2696:ARG:HH11	1:D:2696:ARG:NE	1.78	0.81
1:C:2213:PRO:CA	1:C:2647:LEU:HD13	2.10	0.81
1:C:2707:LYS:HD2	1:C:2711:ASN:ND2	1.96	0.81
1:B:511:ARG:NH1	1:B:570:ASN:OD1	2.14	0.81
1:B:2046:GLY:O	1:B:2048:CYS:N	2.14	0.81
1:D:2714:GLY:O	1:D:2717:SER:OG	1.98	0.81
1:A:652:ILE:O	1:A:656:VAL:N	2.11	0.81
1:C:2341:ILE:HD11	1:C:2360:PHE:HE2	1.45	0.81
1:C:2637:ASN:HB3	1:C:2640:HIS:CD2	2.15	0.81
1:B:1979:ASN:O	1:B:1980:HIS:O	1.98	0.81
1:D:2559:GLU:CD	1:D:2562:LEU:CG	2.49	0.81
1:A:1979:ASN:O	1:A:1980:HIS:O	1.98	0.81
1:A:2425:GLU:O	1:A:2428:LEU:HB3	1.80	0.81
1:A:2583:ASN:HD22	1:B:2586:PHE:CA	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2700:GLU:CD	1:B:2702:LEU:CD1	2.17	0.81
1:B:511:ARG:NE	1:B:570:ASN:OD1	2.14	0.81
1:B:2707:LYS:HD2	1:B:2711:ASN:ND2	1.96	0.81
1:D:2433:SER:CB	1:D:2593:PHE:CE1	2.59	0.81
1:A:621:LEU:O	1:A:625:ASN:N	2.14	0.80
1:A:2341:ILE:HD11	1:A:2360:PHE:CE2	2.16	0.80
1:C:69:GLN:CD	1:C:100:LYS:HD2	1.90	0.80
1:B:72:PHE:CD1	1:B:93:HIS:CB	2.60	0.80
1:B:2062:GLY:C	1:B:2064:ASP:H	1.83	0.80
1:D:760:ASP:O	1:D:761:VAL:C	2.18	0.80
1:C:73:TRP:O	1:C:77:LYS:NZ	2.14	0.80
1:C:2200:ARG:CB	1:C:2662:TYR:CE2	2.63	0.80
1:C:2707:LYS:O	1:C:2710:THR:HG22	1.80	0.80
1:B:73:TRP:O	1:B:77:LYS:NZ	2.14	0.80
1:B:453:LEU:HA	1:B:521:LYS:HZ2	1.43	0.80
1:B:2348:VAL:HG12	1:B:2353:THR:CB	2.07	0.80
1:D:2189:TYR:O	1:D:2192:HIS:O	1.99	0.80
1:D:2637:ASN:HB3	1:D:2640:HIS:CD2	2.15	0.80
1:A:2637:ASN:HB3	1:A:2640:HIS:CD2	2.15	0.80
1:C:514:ASN:OD1	1:C:516:LEU:CD1	2.23	0.80
1:C:2062:GLY:C	1:C:2064:ASP:H	1.83	0.80
1:C:2273:MET:N	1:C:2276:TRP:CD1	2.45	0.80
1:C:2429:ASN:OD1	1:C:2432:LYS:HE2	1.79	0.80
1:C:2559:GLU:CD	1:C:2562:LEU:CG	2.49	0.80
1:B:621:LEU:O	1:B:625:ASN:N	2.14	0.80
1:B:2273:MET:CB	1:B:2371:SER:OG	2.28	0.80
1:A:511:ARG:NE	1:A:570:ASN:OD1	2.14	0.80
1:A:2401:ILE:HD13	1:A:2416:LEU:CD2	2.08	0.80
1:C:2273:MET:CB	1:C:2371:SER:OG	2.28	0.80
1:C:2433:SER:CB	1:C:2593:PHE:CE1	2.59	0.80
1:C:2576:MET:HE3	1:C:2580:ILE:HG13	1.60	0.80
1:B:2713:SER:HA	1:B:2716:LEU:HD21	1.62	0.80
1:D:2200:ARG:CB	1:D:2662:TYR:CE2	2.63	0.80
1:B:2710:THR:CG2	1:B:2711:ASN:HD22	1.94	0.80
1:A:269:ARG:HB3	2:A:2801:JYP:C4	1.94	0.80
1:A:460:LEU:CD2	1:A:465:ILE:HG23	2.06	0.80
1:A:2250:LEU:O	1:A:2250:LEU:HD13	1.82	0.80
1:C:2250:LEU:HD13	1:C:2250:LEU:O	1.82	0.80
1:C:2583:ASN:CB	1:D:2586:PHE:CD1	2.60	0.80
1:D:2239:LYS:HZ3	1:D:2677:ARG:HD2	1.45	0.80
1:D:2707:LYS:HD2	1:D:2711:ASN:ND2	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2707:LYS:O	1:A:2710:THR:HG22	1.80	0.80
1:A:2710:THR:CG2	1:A:2711:ASN:HD22	1.94	0.80
1:C:511:ARG:NH1	1:C:570:ASN:OD1	2.14	0.80
1:B:1404:ASP:O	1:B:1407:VAL:N	2.15	0.80
1:D:2250:LEU:O	1:D:2250:LEU:HD13	1.82	0.80
1:A:511:ARG:NH1	1:A:570:ASN:OD1	2.14	0.80
1:A:2624:LYS:HZ2	1:A:2624:LYS:C	1.85	0.80
1:A:2707:LYS:HD2	1:A:2711:ASN:ND2	1.96	0.80
1:C:621:LEU:O	1:C:625:ASN:N	2.14	0.80
1:C:2714:GLY:O	1:C:2717:SER:OG	1.98	0.80
1:B:108:ARG:HG3	1:B:108:ARG:NH1	1.95	0.80
1:B:2707:LYS:O	1:B:2710:THR:HG22	1.81	0.80
1:B:2714:GLY:O	1:B:2717:SER:OG	1.98	0.80
1:D:264:LEU:O	1:D:265:ARG:NH2	2.15	0.80
1:A:72:PHE:CD1	1:A:93:HIS:CB	2.60	0.80
1:A:2189:TYR:O	1:A:2192:HIS:O	1.99	0.80
1:A:2401:ILE:HG13	1:A:2402:CYS:N	1.97	0.80
1:A:2434:VAL:HG13	1:A:2589:ILE:HD12	1.64	0.80
1:C:486:GLY:CA	1:C:510:MET:SD	2.70	0.80
1:C:2046:GLY:O	1:C:2048:CYS:N	2.13	0.80
1:C:2219:LEU:HD21	1:C:2254:MET:HE1	1.63	0.80
1:C:2434:VAL:HG13	1:C:2589:ILE:HD12	1.64	0.80
1:B:2189:TYR:O	1:B:2192:HIS:O	1.99	0.80
1:B:2434:VAL:HG13	1:B:2589:ILE:HD12	1.64	0.80
1:D:2273:MET:N	1:D:2276:TRP:CD1	2.45	0.80
1:D:2341:ILE:HD11	1:D:2360:PHE:CE2	2.16	0.80
1:D:2713:SER:HA	1:D:2716:LEU:HD21	1.63	0.80
1:A:2433:SER:O	1:A:2434:VAL:CG2	2.30	0.80
1:B:514:ASN:HB3	1:B:517:LYS:H	1.45	0.80
1:D:1979:ASN:O	1:D:1980:HIS:O	1.98	0.80
1:D:2239:LYS:HZ2	1:D:2677:ARG:HE	1.28	0.80
1:A:144:LYS:CB	1:B:1302:HIS:CA	2.60	0.79
1:A:264:LEU:O	1:A:265:ARG:NH2	2.15	0.79
1:A:2583:ASN:HD22	1:B:2586:PHE:CB	1.95	0.79
1:A:2586:PHE:O	1:A:2587:GLY:C	2.17	0.79
1:C:2710:THR:CG2	1:C:2711:ASN:HD22	1.94	0.79
1:B:2343:ARG:O	1:B:2346:PHE:CE2	2.36	0.79
1:B:2401:ILE:HG13	1:B:2402:CYS:N	1.97	0.79
1:B:2637:ASN:HB3	1:B:2640:HIS:CD2	2.15	0.79
1:D:73:TRP:O	1:D:77:LYS:NZ	2.14	0.79
1:D:460:LEU:O	1:D:460:LEU:HD13	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:514:ASN:OD1	1:D:516:LEU:HD11	1.81	0.79
1:D:2710:THR:CG2	1:D:2711:ASN:HD22	1.94	0.79
1:A:73:TRP:O	1:A:77:LYS:NZ	2.14	0.79
1:C:567:TYR:HB2	1:C:571:GLN:CG	2.13	0.79
1:C:2401:ILE:HD13	1:C:2416:LEU:CD2	2.08	0.79
1:B:514:ASN:OD1	1:B:516:LEU:HD11	1.81	0.79
1:B:514:ASN:HD22	1:B:517:LYS:CD	1.93	0.79
1:D:69:GLN:H	1:D:100:LYS:NZ	1.76	0.79
1:D:2273:MET:CB	1:D:2371:SER:OG	2.28	0.79
1:C:602:ASN:C	1:C:606:LEU:H	1.85	0.79
1:B:74:LYS:HA	1:B:74:LYS:HZ1	1.47	0.79
1:B:264:LEU:O	1:B:265:ARG:NH2	2.15	0.79
1:A:453:LEU:HA	1:A:521:LYS:HZ2	1.43	0.79
1:C:460:LEU:O	1:C:460:LEU:HD13	1.82	0.79
1:C:2341:ILE:HD11	1:C:2360:PHE:CE2	2.16	0.79
1:A:2271:ARG:HH11	1:A:2272:ASN:CG	1.75	0.79
1:C:264:LEU:O	1:C:265:ARG:NH2	2.15	0.79
1:C:571:GLN:HB3	1:C:574:ILE:HD11	1.63	0.79
1:C:2666:MET:HB3	1:C:2674:TRP:HE1	1.48	0.79
1:C:2710:THR:CB	1:B:2707:LYS:HZ3	1.64	0.79
1:B:621:LEU:O	1:B:625:ASN:CA	2.31	0.79
1:D:567:TYR:HB2	1:D:571:GLN:CG	2.13	0.79
1:D:621:LEU:O	1:D:625:ASN:N	2.14	0.79
1:D:2433:SER:O	1:D:2434:VAL:CG2	2.30	0.79
1:A:270:GLN:CD	1:A:271:SER:N	2.36	0.79
1:A:567:TYR:HB2	1:A:571:GLN:CG	2.13	0.79
1:A:2213:PRO:HG3	1:A:2647:LEU:CA	2.06	0.79
1:A:2343:ARG:O	1:A:2346:PHE:CE2	2.36	0.79
1:A:2432:LYS:C	1:A:2434:VAL:H	1.86	0.79
1:A:2434:VAL:HG21	1:D:2584:LEU:CD1	2.06	0.79
1:C:2710:THR:CG2	1:B:2707:LYS:NZ	2.46	0.79
1:C:2713:SER:HA	1:C:2716:LEU:HD21	1.63	0.79
1:B:2341:ILE:HD11	1:B:2360:PHE:CE2	2.16	0.79
1:D:621:LEU:O	1:D:625:ASN:CA	2.31	0.79
1:D:2243:PHE:CE2	1:D:2638:MET:CB	2.53	0.79
1:A:69:GLN:NE2	1:A:100:LYS:CD	2.24	0.79
1:A:2559:GLU:CD	1:A:2562:LEU:CG	2.49	0.79
1:A:2736:LEU:HD23	1:A:2736:LEU:O	1.83	0.79
1:C:269:ARG:HB3	2:C:2801:JYP:C4	1.94	0.79
1:C:460:LEU:CD2	1:C:465:ILE:HG23	2.06	0.79
1:C:2345:ILE:HD11	1:C:2356:LEU:CG	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2412:PHE:C	1:C:2414:SER:N	2.36	0.79
1:C:2583:ASN:ND2	1:D:2586:PHE:CA	2.45	0.79
1:B:2433:SER:O	1:B:2434:VAL:CG2	2.31	0.79
1:B:2666:MET:HB3	1:B:2674:TRP:HE1	1.48	0.79
1:D:514:ASN:OD1	1:D:516:LEU:CD1	2.24	0.79
1:A:2285:VAL:CG1	1:A:2286:LEU:N	2.45	0.79
1:A:2428:LEU:HA	1:A:2431:ILE:HD12	1.65	0.79
1:B:299:TRP:CZ2	1:B:380:SER:HB3	2.18	0.79
1:B:460:LEU:O	1:B:460:LEU:HD13	1.82	0.79
1:B:2559:GLU:CD	1:B:2562:LEU:CG	2.49	0.79
1:D:2285:VAL:CG1	1:D:2286:LEU:N	2.45	0.79
1:D:2666:MET:HB3	1:D:2674:TRP:HE1	1.48	0.79
1:A:514:ASN:HD22	1:A:517:LYS:CD	1.93	0.79
1:C:514:ASN:HB3	1:C:517:LYS:H	1.45	0.79
1:C:760:ASP:O	1:C:761:VAL:C	2.18	0.79
1:C:2189:TYR:O	1:C:2192:HIS:O	1.99	0.79
1:B:2239:LYS:HZ3	1:B:2677:ARG:HD2	1.46	0.79
1:B:2250:LEU:O	1:B:2250:LEU:HD13	1.82	0.79
1:B:2432:LYS:C	1:B:2434:VAL:H	1.87	0.79
1:B:2624:LYS:HZ2	1:B:2624:LYS:C	1.86	0.79
1:D:602:ASN:C	1:D:606:LEU:H	1.85	0.79
1:D:2401:ILE:HD13	1:D:2416:LEU:CD2	2.08	0.79
1:D:2432:LYS:O	1:D:2434:VAL:N	2.16	0.79
1:A:602:ASN:C	1:A:606:LEU:H	1.85	0.79
1:C:584:GLN:HG2	1:C:585:ILE:HG22	1.65	0.79
1:C:2210:PHE:HE2	1:C:2647:LEU:CD2	1.85	0.79
1:B:270:GLN:CD	1:B:271:SER:N	2.36	0.79
1:B:2432:LYS:O	1:B:2434:VAL:N	2.16	0.79
1:D:456:ILE:HB	1:D:521:LYS:HZ2	1.48	0.79
1:D:486:GLY:CA	1:D:510:MET:SD	2.70	0.79
1:D:2062:GLY:C	1:D:2064:ASP:H	1.83	0.79
1:D:2210:PHE:HE2	1:D:2647:LEU:CD2	1.85	0.79
1:A:839:PHE:O	1:A:843:TYR:N	2.15	0.78
1:A:2576:MET:HA	1:A:2576:MET:HE3	1.64	0.78
1:C:621:LEU:O	1:C:625:ASN:CA	2.31	0.78
1:C:2345:ILE:HG23	1:C:2353:THR:HG1	1.45	0.78
1:B:571:GLN:HB3	1:B:574:ILE:HD11	1.63	0.78
1:B:602:ASN:C	1:B:606:LEU:H	1.85	0.78
1:D:517:LYS:HA	1:D:517:LYS:NZ	1.98	0.78
1:A:621:LEU:O	1:A:625:ASN:CA	2.31	0.78
1:C:2433:SER:O	1:C:2434:VAL:CG2	2.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2345:ILE:HD11	1:B:2356:LEU:CG	2.12	0.78
1:D:514:ASN:HB3	1:D:517:LYS:H	1.45	0.78
1:D:1404:ASP:O	1:D:1407:VAL:N	2.15	0.78
1:A:2720:LYS:HE2	1:A:2720:LYS:HA	1.66	0.78
1:B:2210:PHE:HE2	1:B:2647:LEU:CD2	1.85	0.78
1:B:2285:VAL:CG1	1:B:2286:LEU:N	2.45	0.78
1:B:2622:ASP:HB3	1:B:2628:PHE:CG	2.18	0.78
1:D:270:GLN:CD	1:D:271:SER:N	2.36	0.78
1:D:299:TRP:CZ2	1:D:380:SER:HB3	2.18	0.78
1:A:2345:ILE:HD11	1:A:2356:LEU:CG	2.12	0.78
1:A:2370:MET:HA	1:A:2370:MET:HE3	1.63	0.78
1:A:2432:LYS:O	1:A:2434:VAL:N	2.16	0.78
1:A:2677:ARG:NH2	1:B:2623:ASN:ND2	2.31	0.78
1:C:2710:THR:CG2	1:B:2707:LYS:HZ3	1.96	0.78
1:B:517:LYS:NZ	1:B:517:LYS:HA	1.99	0.78
1:B:2412:PHE:C	1:B:2414:SER:N	2.36	0.78
1:D:2345:ILE:HD11	1:D:2356:LEU:CG	2.12	0.78
1:D:2720:LYS:HE2	1:D:2720:LYS:HA	1.65	0.78
1:A:2343:ARG:CA	1:A:2346:PHE:CD2	2.66	0.78
1:A:2589:ILE:CG2	1:D:2583:ASN:OD1	2.26	0.78
1:C:456:ILE:HB	1:C:521:LYS:NZ	1.99	0.78
1:C:2432:LYS:O	1:C:2434:VAL:N	2.16	0.78
1:C:2736:LEU:HD23	1:C:2736:LEU:O	1.83	0.78
1:B:2428:LEU:HA	1:B:2431:ILE:HD12	1.65	0.78
1:B:2736:LEU:O	1:B:2736:LEU:HD23	1.83	0.78
1:D:571:GLN:HB3	1:D:574:ILE:HD11	1.63	0.78
1:D:2401:ILE:HG13	1:D:2402:CYS:N	1.97	0.78
1:D:2428:LEU:O	1:D:2428:LEU:HD22	1.83	0.78
1:D:2432:LYS:C	1:D:2434:VAL:H	1.86	0.78
1:D:460:LEU:CD2	1:D:465:ILE:HG23	2.06	0.78
1:D:2343:ARG:CA	1:D:2346:PHE:CD2	2.66	0.78
1:D:2345:ILE:HG23	1:D:2348:VAL:HG11	1.66	0.78
1:D:2428:LEU:HA	1:D:2431:ILE:HD12	1.65	0.78
1:D:2736:LEU:HD23	1:D:2736:LEU:O	1.83	0.78
1:A:571:GLN:HB3	1:A:574:ILE:HD11	1.63	0.78
1:A:1633:PRO:O	1:A:1637:PHE:N	2.17	0.78
1:A:2412:PHE:C	1:A:2414:SER:N	2.36	0.78
1:C:299:TRP:CZ2	1:C:380:SER:HB3	2.18	0.78
1:C:554:ARG:HG2	1:C:554:ARG:NH1	1.96	0.78
1:C:2401:ILE:HG13	1:C:2402:CYS:N	1.97	0.78
1:C:2428:LEU:O	1:C:2428:LEU:HD22	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2624:LYS:HZ2	1:C:2624:LYS:C	1.86	0.78
1:B:567:TYR:HB2	1:B:571:GLN:CG	2.13	0.78
1:D:456:ILE:HB	1:D:521:LYS:NZ	1.99	0.78
1:D:2624:LYS:HZ3	1:D:2624:LYS:HB2	1.49	0.78
1:A:514:ASN:HB3	1:A:517:LYS:H	1.45	0.78
1:A:517:LYS:HA	1:A:517:LYS:NZ	1.99	0.78
1:A:2428:LEU:O	1:A:2428:LEU:HD22	1.83	0.78
1:C:2239:LYS:HZ3	1:C:2677:ARG:HD2	1.45	0.78
1:B:522:LEU:O	1:B:522:LEU:HD13	1.84	0.78
1:D:2434:VAL:HG13	1:D:2589:ILE:HD12	1.64	0.78
1:A:299:TRP:CZ2	1:A:380:SER:HB3	2.18	0.78
1:C:89:LEU:O	1:C:93:HIS:ND1	2.17	0.78
1:C:2213:PRO:HG3	1:C:2647:LEU:CA	2.06	0.78
1:C:2428:LEU:HA	1:C:2431:ILE:HD12	1.65	0.78
1:D:1633:PRO:O	1:D:1637:PHE:N	2.17	0.78
1:D:2626:VAL:HG12	1:D:2627:THR:CA	2.14	0.78
1:A:2288:ASN:CB	1:A:2413:TYR:CB	2.56	0.78
1:A:2345:ILE:HG23	1:A:2348:VAL:HG11	1.66	0.78
1:A:2622:ASP:HB3	1:A:2628:PHE:CG	2.18	0.78
1:C:876:PHE:O	1:C:880:ASN:N	2.16	0.78
1:C:2432:LYS:C	1:C:2434:VAL:H	1.86	0.78
1:D:522:LEU:O	1:D:522:LEU:HD13	1.84	0.78
1:D:2239:LYS:NZ	1:D:2677:ARG:HE	1.82	0.78
1:A:460:LEU:O	1:A:460:LEU:HD13	1.82	0.77
1:A:876:PHE:O	1:A:880:ASN:N	2.16	0.77
1:C:270:GLN:CD	1:C:271:SER:N	2.36	0.77
1:C:514:ASN:OD1	1:C:516:LEU:HD11	1.81	0.77
1:C:517:LYS:HA	1:C:517:LYS:NZ	1.99	0.77
1:C:2343:ARG:CA	1:C:2346:PHE:CD2	2.66	0.77
1:C:2365:LYS:NZ	1:C:2368:PHE:CE2	2.52	0.77
1:C:2622:ASP:HB3	1:C:2628:PHE:CG	2.18	0.77
1:B:89:LEU:O	1:B:93:HIS:ND1	2.17	0.77
1:B:514:ASN:OD1	1:B:516:LEU:CD1	2.23	0.77
1:B:2428:LEU:O	1:B:2428:LEU:HD22	1.83	0.77
1:B:2720:LYS:HE2	1:B:2720:LYS:HA	1.65	0.77
1:D:89:LEU:O	1:D:93:HIS:ND1	2.17	0.77
1:C:2586:PHE:O	1:C:2587:GLY:C	2.17	0.77
1:C:2735:LEU:O	1:C:2735:LEU:HD22	1.85	0.77
1:B:584:GLN:HG2	1:B:585:ILE:HG22	1.65	0.77
1:B:876:PHE:O	1:B:880:ASN:N	2.16	0.77
1:D:2622:ASP:HB3	1:D:2628:PHE:CG	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2285:VAL:CG1	1:C:2286:LEU:N	2.45	0.77
1:C:2348:VAL:HG23	1:C:2350:LEU:H	1.49	0.77
1:B:486:GLY:CA	1:B:510:MET:SD	2.70	0.77
1:B:2278:SER:O	1:B:2281:PHE:CD2	2.13	0.77
1:B:2343:ARG:CA	1:B:2346:PHE:CD2	2.66	0.77
1:B:2735:LEU:O	1:B:2735:LEU:HD22	1.85	0.77
1:D:2735:LEU:O	1:D:2735:LEU:HD22	1.85	0.77
1:A:89:LEU:O	1:A:93:HIS:ND1	2.17	0.77
1:A:456:ILE:HB	1:A:521:LYS:NZ	1.99	0.77
1:C:2710:THR:HG23	1:C:2711:ASN:ND2	2.00	0.77
1:B:554:ARG:HG2	1:B:554:ARG:NH1	1.96	0.77
1:B:760:ASP:O	1:B:761:VAL:C	2.18	0.77
1:D:876:PHE:O	1:D:880:ASN:N	2.16	0.77
1:A:2062:GLY:C	1:A:2064:ASP:H	1.83	0.77
1:A:2288:ASN:OD1	1:A:2289:LEU:N	2.18	0.77
1:A:2666:MET:HB3	1:A:2674:TRP:HE1	1.48	0.77
1:C:2699:GLN:HG3	1:B:2700:GLU:OE1	1.85	0.77
1:C:2720:LYS:HA	1:C:2720:LYS:HE2	1.66	0.77
1:B:2365:LYS:NZ	1:B:2368:PHE:CE2	2.52	0.77
1:B:2586:PHE:O	1:B:2587:GLY:C	2.17	0.77
1:D:847:VAL:O	1:D:851:ARG:N	2.18	0.77
1:D:2343:ARG:O	1:D:2346:PHE:CE2	2.36	0.77
1:D:2348:VAL:HG23	1:D:2350:LEU:H	1.49	0.77
1:A:486:GLY:CA	1:A:510:MET:SD	2.70	0.77
1:A:760:ASP:O	1:A:761:VAL:C	2.18	0.77
1:A:2365:LYS:NZ	1:A:2368:PHE:CE2	2.52	0.77
1:A:2735:LEU:O	1:A:2735:LEU:HD22	1.85	0.77
1:C:839:PHE:O	1:C:843:TYR:N	2.15	0.77
1:C:2288:ASN:OD1	1:C:2289:LEU:N	2.18	0.77
1:B:2351:GLN:N	1:B:2352:PRO:HD2	2.00	0.77
1:B:2710:THR:HG23	1:B:2711:ASN:ND2	2.00	0.77
1:A:720:LYS:CA	1:A:726:ASP:CA	2.63	0.77
1:A:2239:LYS:NZ	1:A:2677:ARG:HE	1.82	0.77
1:C:720:LYS:CA	1:C:726:ASP:CA	2.63	0.77
1:B:1633:PRO:O	1:B:1637:PHE:N	2.17	0.77
1:B:2648:VAL:HG23	1:B:2649:LYS:HE2	1.66	0.77
1:A:453:LEU:CA	1:A:521:LYS:HZ3	1.97	0.77
1:A:2239:LYS:HZ2	1:A:2677:ARG:HE	1.33	0.77
1:C:2345:ILE:HG23	1:C:2348:VAL:HG11	1.66	0.77
1:B:2288:ASN:OD1	1:B:2289:LEU:N	2.18	0.77
1:D:69:GLN:NE2	1:D:100:LYS:CD	2.24	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2412:PHE:C	1:D:2414:SER:N	2.36	0.77
1:A:270:GLN:H	2:A:2801:JYP:C4	1.96	0.77
1:C:72:PHE:CD1	1:C:93:HIS:CB	2.60	0.77
1:C:2239:LYS:NZ	1:C:2677:ARG:HE	1.82	0.77
1:D:2365:LYS:NZ	1:D:2368:PHE:CE2	2.52	0.77
1:A:847:VAL:O	1:A:851:ARG:N	2.18	0.77
1:A:2715:GLN:HE22	1:B:2713:SER:HB2	0.96	0.77
1:C:2626:VAL:HG12	1:C:2627:THR:CA	2.14	0.77
1:C:2648:VAL:HG23	1:C:2649:LYS:HE2	1.66	0.77
1:B:456:ILE:HB	1:B:521:LYS:NZ	1.99	0.77
1:B:2626:VAL:HG12	1:B:2627:THR:CA	2.14	0.77
1:D:554:ARG:HG2	1:D:554:ARG:NH1	1.96	0.77
1:D:2351:GLN:N	1:D:2352:PRO:HD2	2.00	0.77
1:D:2423:ARG:O	1:D:2423:ARG:HD2	1.85	0.77
1:D:2710:THR:HG23	1:D:2711:ASN:ND2	2.00	0.77
1:A:514:ASN:OD1	1:A:516:LEU:CD1	2.24	0.76
1:A:583:LYS:O	1:A:583:LYS:HD2	1.86	0.76
1:A:1404:ASP:O	1:A:1407:VAL:N	2.15	0.76
1:C:768:MET:CA	1:C:776:ASP:N	2.48	0.76
1:B:847:VAL:O	1:B:851:ARG:N	2.18	0.76
1:A:2626:VAL:HG12	1:A:2627:THR:CA	2.14	0.76
1:C:847:VAL:O	1:C:851:ARG:N	2.18	0.76
1:C:2713:SER:C	1:C:2716:LEU:CD2	2.54	0.76
1:B:839:PHE:O	1:B:843:TYR:N	2.15	0.76
1:A:584:GLN:HG2	1:A:585:ILE:HG22	1.65	0.76
1:A:2707:LYS:HE2	1:B:2706:MET:C	2.05	0.76
2:A:2801:JYP:C8	2:A:2801:JYP:O16	2.34	0.76
1:C:522:LEU:O	1:C:522:LEU:HD13	1.84	0.76
1:C:583:LYS:O	1:C:583:LYS:HD2	1.86	0.76
1:C:1404:ASP:O	1:C:1407:VAL:N	2.15	0.76
1:D:2288:ASN:OD1	1:D:2289:LEU:N	2.18	0.76
1:A:514:ASN:OD1	1:A:516:LEU:HD11	1.81	0.76
1:A:768:MET:CA	1:A:776:ASP:N	2.48	0.76
1:A:2351:GLN:N	1:A:2352:PRO:HD2	2.00	0.76
1:A:2727:ARG:NE	1:A:2727:ARG:HA	2.01	0.76
1:D:515:ILE:O	1:D:515:ILE:HD12	1.85	0.76
1:D:720:LYS:CA	1:D:726:ASP:CA	2.63	0.76
1:A:44:GLY:H	1:A:50:PRO:HG3	1.51	0.76
1:A:2210:PHE:HE2	1:A:2647:LEU:CD2	1.85	0.76
1:A:2677:ARG:CD	1:B:2623:ASN:OD1	2.28	0.76
1:A:2710:THR:HG23	1:A:2711:ASN:ND2	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1633:PRO:O	1:C:1637:PHE:N	2.17	0.76
1:B:237:GLY:O	1:B:283:GLU:CD	2.24	0.76
1:B:453:LEU:CA	1:B:521:LYS:HZ3	1.97	0.76
1:D:72:PHE:O	1:D:75:ALA:HB3	1.86	0.76
1:D:88:LEU:CD1	1:D:88:LEU:H	1.98	0.76
1:D:584:GLN:HG2	1:D:585:ILE:HG22	1.65	0.76
1:D:768:MET:CA	1:D:776:ASP:N	2.48	0.76
1:D:2713:SER:C	1:D:2716:LEU:CD2	2.54	0.76
1:A:522:LEU:O	1:A:522:LEU:HD13	1.84	0.76
1:A:2648:VAL:HG23	1:A:2649:LYS:HE2	1.66	0.76
1:C:237:GLY:O	1:C:283:GLU:CD	2.24	0.76
1:C:515:ILE:HD12	1:C:515:ILE:O	1.85	0.76
1:B:515:ILE:HD12	1:B:515:ILE:O	1.85	0.76
1:B:583:LYS:HD2	1:B:583:LYS:O	1.85	0.76
1:B:2727:ARG:HA	1:B:2727:ARG:NE	2.01	0.76
1:A:62:PRO:HB3	1:A:110:LEU:HD13	1.67	0.76
1:A:554:ARG:HG2	1:A:554:ARG:NH1	1.96	0.76
1:A:2623:ASN:ND2	1:D:2677:ARG:NH2	2.33	0.76
1:C:69:GLN:NE2	1:C:100:LYS:CD	2.24	0.76
1:C:270:GLN:HE21	1:C:271:SER:H	1.32	0.76
1:C:760:ASP:O	1:C:763:LEU:N	2.19	0.76
1:C:2715:GLN:NE2	1:D:2713:SER:HB3	2.00	0.76
1:B:2348:VAL:HG23	1:B:2350:LEU:H	1.49	0.76
2:D:2801:JYP:C8	2:D:2801:JYP:O16	2.33	0.76
1:A:2365:LYS:NZ	1:A:2368:PHE:HD2	1.83	0.76
1:A:2713:SER:C	1:A:2716:LEU:CD2	2.54	0.76
1:C:2423:ARG:O	1:C:2423:ARG:HD2	1.85	0.76
1:B:88:LEU:H	1:B:88:LEU:CD1	1.98	0.76
1:B:720:LYS:CA	1:B:726:ASP:CA	2.63	0.76
1:D:453:LEU:CA	1:D:521:LYS:HZ3	1.99	0.76
1:D:2624:LYS:HZ2	1:D:2624:LYS:C	1.89	0.76
1:A:760:ASP:O	1:A:763:LEU:N	2.19	0.76
1:C:2737:GLY:O	1:D:393:LEU:HD21	1.85	0.76
1:D:2618:ARG:HB3	1:D:2618:ARG:CZ	2.16	0.76
1:A:564:GLN:HE22	1:A:578:PHE:HD2	1.33	0.76
1:A:2348:VAL:HG23	1:A:2350:LEU:H	1.49	0.76
1:C:2351:GLN:N	1:C:2352:PRO:HD2	2.00	0.76
1:C:2696:ARG:HH12	1:B:2696:ARG:NE	1.75	0.76
1:B:2239:LYS:NZ	1:B:2677:ARG:HE	1.82	0.76
1:B:2433:SER:CB	1:B:2593:PHE:CE1	2.59	0.76
1:D:2219:LEU:HD21	1:D:2254:MET:HE2	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:GLY:HA3	1:A:510:MET:HE3	1.68	0.75
1:A:504:ARG:HA	1:A:507:GLN:HG2	1.68	0.75
1:A:2586:PHE:CA	1:D:2583:ASN:ND2	2.49	0.75
1:C:88:LEU:CD1	1:C:88:LEU:H	1.98	0.75
1:C:2343:ARG:O	1:C:2346:PHE:CE2	2.36	0.75
1:C:2586:PHE:CZ	1:B:2583:ASN:HB2	2.20	0.75
1:C:2622:ASP:CG	1:C:2628:PHE:CG	2.59	0.75
1:B:44:GLY:H	1:B:50:PRO:HG3	1.50	0.75
1:B:2365:LYS:NZ	1:B:2368:PHE:HD2	1.83	0.75
1:B:2423:ARG:O	1:B:2423:ARG:HD2	1.85	0.75
1:D:237:GLY:O	1:D:283:GLU:OE2	2.04	0.75
1:D:564:GLN:NE2	1:D:578:PHE:HD2	1.84	0.75
1:D:839:PHE:O	1:D:843:TYR:N	2.15	0.75
1:A:237:GLY:O	1:A:283:GLU:OE2	2.04	0.75
1:C:514:ASN:HD22	1:C:517:LYS:CD	1.93	0.75
1:C:564:GLN:NE2	1:C:578:PHE:HD2	1.85	0.75
1:C:2365:LYS:NZ	1:C:2368:PHE:HD2	1.83	0.75
1:C:2727:ARG:NE	1:C:2727:ARG:HA	2.01	0.75
1:B:2345:ILE:HG23	1:B:2348:VAL:HG11	1.66	0.75
2:B:2801:JYP:O16	2:B:2801:JYP:C8	2.34	0.75
1:D:2648:VAL:HG23	1:D:2649:LYS:HE2	1.66	0.75
1:A:1248:ASN:CA	1:A:1252:GLN:H	1.99	0.75
1:A:2423:ARG:O	1:A:2423:ARG:HD2	1.85	0.75
1:C:44:GLY:H	1:C:50:PRO:HG3	1.51	0.75
1:B:72:PHE:O	1:B:75:ALA:HB3	1.86	0.75
1:B:564:GLN:HE22	1:B:578:PHE:HD2	1.33	0.75
1:B:2622:ASP:CG	1:B:2628:PHE:CG	2.59	0.75
1:D:583:LYS:HD2	1:D:583:LYS:O	1.86	0.75
1:A:88:LEU:CD1	1:A:88:LEU:H	1.98	0.75
1:A:515:ILE:HD12	1:A:515:ILE:O	1.85	0.75
1:A:2622:ASP:CG	1:A:2628:PHE:CG	2.59	0.75
1:C:237:GLY:O	1:C:283:GLU:OE2	2.04	0.75
1:C:1209:GLY:O	1:C:1259:ILE:C	2.25	0.75
1:B:760:ASP:O	1:B:763:LEU:N	2.19	0.75
1:D:504:ARG:HA	1:D:507:GLN:HG2	1.68	0.75
1:A:237:GLY:O	1:A:283:GLU:CD	2.24	0.75
1:B:237:GLY:O	1:B:283:GLU:OE2	2.04	0.75
1:D:486:GLY:HA3	1:D:510:MET:HE3	1.69	0.75
1:D:2178:GLY:O	1:D:2186:LEU:CD2	2.35	0.75
1:D:2727:ARG:NE	1:D:2727:ARG:HA	2.01	0.75
1:A:1209:GLY:O	1:A:1259:ILE:C	2.24	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2801:JYP:O16	2:C:2801:JYP:C8	2.34	0.75
1:B:504:ARG:HA	1:B:507:GLN:HG2	1.68	0.75
1:B:2618:ARG:HB3	1:B:2618:ARG:CZ	2.16	0.75
1:D:62:PRO:HB3	1:D:110:LEU:HD13	1.67	0.75
1:D:237:GLY:O	1:D:283:GLU:CD	2.24	0.75
1:A:2388:LEU:CD2	1:A:2388:LEU:H	1.93	0.75
1:D:567:TYR:C	1:D:571:GLN:NE2	2.40	0.75
1:D:2560:GLU:HG2	1:D:2563:PHE:CE2	2.16	0.75
1:A:2239:LYS:HZ2	1:A:2677:ARG:NE	1.83	0.75
1:C:62:PRO:HB3	1:C:110:LEU:HD13	1.67	0.75
1:B:1226:GLU:O	1:B:1231:GLN:CA	2.35	0.75
1:D:270:GLN:HE21	1:D:271:SER:H	1.32	0.75
1:D:564:GLN:HE22	1:D:578:PHE:HD2	1.33	0.75
1:C:1248:ASN:CA	1:C:1252:GLN:H	1.99	0.74
1:B:768:MET:CA	1:B:776:ASP:N	2.48	0.74
1:B:2178:GLY:O	1:B:2186:LEU:CD2	2.35	0.74
1:D:270:GLN:H	2:D:2801:JYP:C4	1.96	0.74
1:D:602:ASN:O	1:D:603:ARG:C	2.22	0.74
1:D:2559:GLU:CD	1:D:2562:LEU:HG	2.07	0.74
1:A:567:TYR:C	1:A:571:GLN:NE2	2.40	0.74
1:A:2576:MET:HE1	1:A:2580:ILE:CG1	2.15	0.74
1:C:2589:ILE:CG2	1:B:2583:ASN:OD1	2.33	0.74
1:B:602:ASN:O	1:B:603:ARG:C	2.22	0.74
1:D:108:ARG:HG3	1:D:108:ARG:NH1	1.95	0.74
1:C:72:PHE:O	1:C:75:ALA:HB3	1.86	0.74
1:C:567:TYR:C	1:C:571:GLN:NE2	2.40	0.74
1:C:1226:GLU:O	1:C:1231:GLN:CA	2.35	0.74
1:C:2178:GLY:O	1:C:2186:LEU:CD2	2.35	0.74
1:B:1248:ASN:CA	1:B:1252:GLN:H	1.99	0.74
1:B:2368:PHE:CE2	1:B:2395:HIS:ND1	2.55	0.74
1:A:2285:VAL:O	1:A:2289:LEU:CD1	2.36	0.74
1:A:2368:PHE:CE2	1:A:2395:HIS:ND1	2.55	0.74
1:B:62:PRO:HB3	1:B:110:LEU:HD13	1.67	0.74
1:B:567:TYR:C	1:B:571:GLN:NE2	2.40	0.74
1:B:1634:GLU:O	1:B:1637:PHE:O	2.06	0.74
1:D:44:GLY:H	1:D:50:PRO:HG3	1.51	0.74
1:D:1634:GLU:O	1:D:1637:PHE:O	2.06	0.74
1:D:2239:LYS:NZ	1:D:2677:ARG:NE	2.36	0.74
1:D:2277:SER:O	1:D:2281:PHE:HD2	1.71	0.74
1:D:2559:GLU:OE1	1:D:2562:LEU:HD23	1.70	0.74
1:D:2622:ASP:CG	1:D:2628:PHE:CG	2.59	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:72:PHE:O	1:A:75:ALA:HB3	1.86	0.74
1:A:2618:ARG:HB3	1:A:2618:ARG:CZ	2.16	0.74
1:A:2700:GLU:OE1	1:B:2699:GLN:HG3	1.87	0.74
1:C:1634:GLU:O	1:C:1637:PHE:O	2.06	0.74
1:B:564:GLN:NE2	1:B:578:PHE:HD2	1.84	0.74
1:B:2243:PHE:HE2	1:B:2638:MET:HB3	1.50	0.74
1:D:1248:ASN:CA	1:D:1252:GLN:H	1.99	0.74
1:C:504:ARG:HA	1:C:507:GLN:HG2	1.68	0.74
1:B:520:PHE:CD1	1:B:523:LEU:CD1	2.70	0.74
1:A:1226:GLU:O	1:A:1231:GLN:CA	2.35	0.74
1:B:574:ILE:CA	1:B:577:GLN:OE1	2.32	0.74
1:B:1209:GLY:O	1:B:1259:ILE:C	2.24	0.74
1:D:760:ASP:O	1:D:763:LEU:N	2.19	0.74
1:D:2285:VAL:O	1:D:2289:LEU:CD1	2.36	0.74
1:D:2368:PHE:CE2	1:D:2395:HIS:ND1	2.55	0.74
1:A:1634:GLU:O	1:A:1637:PHE:O	2.06	0.74
1:A:2277:SER:O	1:A:2281:PHE:HD2	1.70	0.74
1:C:2586:PHE:CA	1:B:2583:ASN:ND2	2.50	0.74
1:C:2277:SER:O	1:C:2281:PHE:HD2	1.71	0.74
1:C:2619:ASP:OD1	1:B:2236:GLN:HB3	1.87	0.74
1:B:460:LEU:HD23	1:B:465:ILE:CG2	2.09	0.74
1:B:2219:LEU:HD21	1:B:2254:MET:HE1	1.67	0.74
1:D:1209:GLY:O	1:D:1259:ILE:C	2.24	0.74
1:D:2365:LYS:CE	1:D:2398:TYR:HB3	2.18	0.74
1:A:2009:CYS:O	1:A:2013:SER:CA	2.36	0.74
1:A:2285:VAL:HG23	1:A:2417:LEU:HD13	1.69	0.74
1:C:2365:LYS:CE	1:C:2398:TYR:HB3	2.18	0.74
1:C:2696:ARG:HH11	1:B:2696:ARG:NE	1.86	0.74
1:B:269:ARG:HB3	2:B:2801:JYP:C4	1.94	0.74
1:B:2277:SER:O	1:B:2281:PHE:HD2	1.71	0.74
1:B:2285:VAL:O	1:B:2289:LEU:CD1	2.36	0.74
1:D:1226:GLU:O	1:D:1231:GLN:CA	2.35	0.74
1:C:74:LYS:HA	1:C:74:LYS:HZ1	1.51	0.73
1:C:2239:LYS:HZ2	1:C:2677:ARG:NE	1.86	0.73
1:C:2566:ARG:HB3	1:C:2566:ARG:CZ	2.18	0.73
1:B:2009:CYS:O	1:B:2013:SER:CA	2.36	0.73
1:B:2213:PRO:HG3	1:B:2647:LEU:CA	2.06	0.73
1:B:2559:GLU:CD	1:B:2562:LEU:HG	2.07	0.73
1:B:2566:ARG:HB3	1:B:2566:ARG:CZ	2.18	0.73
1:A:520:PHE:CD1	1:A:523:LEU:CD1	2.70	0.73
1:A:564:GLN:NE2	1:A:578:PHE:HD2	1.85	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:ARG:O	2:A:2801:JYP:O14	2.07	0.73
1:A:2178:GLY:O	1:A:2186:LEU:CD2	2.35	0.73
1:C:2200:ARG:HD2	1:C:2662:TYR:CD1	2.24	0.73
1:B:64:ASN:ND2	1:B:106:GLU:OE1	2.22	0.73
1:B:514:ASN:O	1:B:517:LYS:N	2.21	0.73
1:D:514:ASN:O	1:D:517:LYS:N	2.21	0.73
1:C:819:TYR:H	1:C:877:GLY:HA3	1.53	0.73
1:B:2239:LYS:NZ	1:B:2677:ARG:NE	2.36	0.73
1:D:481:VAL:HG11	1:D:559:VAL:HG11	1.70	0.73
1:A:481:VAL:HG11	1:A:559:VAL:HG11	1.70	0.73
1:A:2566:ARG:HB3	1:A:2566:ARG:NH1	2.04	0.73
1:C:453:LEU:C	1:C:521:LYS:HZ2	1.91	0.73
1:C:2239:LYS:NZ	1:C:2677:ARG:NE	2.36	0.73
1:B:2388:LEU:CD2	1:B:2388:LEU:H	1.93	0.73
1:D:2576:MET:HE2	1:D:2580:ILE:CG1	2.18	0.73
1:A:817:ASP:CA	1:A:878:PHE:CA	2.67	0.73
1:A:2365:LYS:CE	1:A:2398:TYR:HB3	2.18	0.73
1:C:2368:PHE:CE2	1:C:2395:HIS:ND1	2.55	0.73
1:B:270:GLN:HE21	1:B:271:SER:H	1.32	0.73
1:D:2200:ARG:HD2	1:D:2662:TYR:CD1	2.24	0.73
1:A:64:ASN:ND2	1:A:106:GLU:OE1	2.22	0.73
1:A:514:ASN:O	1:A:517:LYS:N	2.21	0.73
1:C:85:ASP:OD1	1:C:85:ASP:N	2.16	0.73
1:C:2285:VAL:O	1:C:2289:LEU:CD1	2.36	0.73
1:C:2345:ILE:O	1:C:2348:VAL:HG12	1.86	0.73
1:C:2425:GLU:HA	1:C:2428:LEU:HB3	1.71	0.73
1:C:2559:GLU:CD	1:C:2562:LEU:HG	2.07	0.73
1:B:817:ASP:CA	1:B:878:PHE:CA	2.67	0.73
1:B:2425:GLU:HA	1:B:2428:LEU:HB3	1.71	0.73
1:D:547:ALA:HB3	1:D:548:PRO:HD2	1.68	0.73
1:D:2372:PHE:CE2	1:D:2391:GLU:HG3	2.24	0.73
1:C:2559:GLU:OE1	1:C:2562:LEU:HD23	1.70	0.73
1:B:2566:ARG:HB3	1:B:2566:ARG:NH1	2.04	0.73
1:D:64:ASN:ND2	1:D:106:GLU:OE1	2.22	0.73
1:A:2425:GLU:HA	1:A:2428:LEU:HB3	1.71	0.73
1:A:2566:ARG:HB3	1:A:2566:ARG:CZ	2.18	0.73
1:C:486:GLY:HA3	1:C:510:MET:HE3	1.70	0.73
1:C:509:LEU:HA	1:C:512:GLU:HB3	1.71	0.73
1:C:568:ARG:O	2:C:2801:JYP:O14	2.07	0.73
1:C:817:ASP:CA	1:C:878:PHE:CA	2.67	0.73
1:C:2566:ARG:HB3	1:C:2566:ARG:NH1	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1619:VAL:C	1:B:1621:ALA:N	2.41	0.73
1:B:2200:ARG:HD2	1:B:2662:TYR:CD1	2.24	0.73
1:B:2713:SER:C	1:B:2716:LEU:CD2	2.54	0.73
1:D:72:PHE:CD1	1:D:93:HIS:CB	2.60	0.73
1:D:509:LEU:HA	1:D:512:GLU:HB3	1.71	0.73
1:D:517:LYS:HA	1:D:517:LYS:HZ2	1.54	0.73
1:D:819:TYR:H	1:D:877:GLY:HA3	1.53	0.73
1:D:2009:CYS:O	1:D:2013:SER:CA	2.36	0.73
1:D:2365:LYS:NZ	1:D:2368:PHE:HD2	1.83	0.73
1:A:78:PRO:HA	1:A:81:ASN:O	1.89	0.73
1:C:514:ASN:O	1:C:517:LYS:N	2.22	0.73
1:C:2009:CYS:O	1:C:2013:SER:CA	2.36	0.73
1:B:2268:TRP:O	1:B:2272:ASN:ND2	2.22	0.73
1:A:270:GLN:HE21	1:A:271:SER:H	1.32	0.73
1:A:2715:GLN:NE2	1:B:2713:SER:HB3	2.00	0.73
1:B:819:TYR:H	1:B:877:GLY:HA3	1.53	0.73
1:A:819:TYR:H	1:A:877:GLY:HA3	1.53	0.72
1:A:2372:PHE:CE2	1:A:2391:GLU:HG3	2.24	0.72
1:A:2725:GLU:OE1	1:B:2720:LYS:HD3	1.88	0.72
1:C:460:LEU:HD23	1:C:465:ILE:CG2	2.09	0.72
1:A:1619:VAL:C	1:A:1621:ALA:N	2.41	0.72
1:A:2213:PRO:HD3	1:A:2647:LEU:HB2	0.73	0.72
1:C:64:ASN:ND2	1:C:106:GLU:OE1	2.22	0.72
1:C:2372:PHE:CE2	1:C:2391:GLU:HG3	2.24	0.72
1:B:62:PRO:CB	1:B:110:LEU:HD13	2.20	0.72
1:D:62:PRO:CB	1:D:110:LEU:HD13	2.20	0.72
1:D:78:PRO:HA	1:D:81:ASN:O	1.89	0.72
1:D:2268:TRP:O	1:D:2272:ASN:ND2	2.22	0.72
1:D:2425:GLU:HA	1:D:2428:LEU:HB3	1.71	0.72
1:A:62:PRO:CB	1:A:110:LEU:HD13	2.20	0.72
1:A:460:LEU:HD23	1:A:465:ILE:CG2	2.09	0.72
1:A:2411:PHE:O	1:A:2413:TYR:N	2.22	0.72
1:A:2649:LYS:HA	1:A:2649:LYS:CE	2.18	0.72
1:D:2566:ARG:HB3	1:D:2566:ARG:CZ	2.18	0.72
1:A:2200:ARG:HD2	1:A:2662:TYR:CD1	2.24	0.72
1:A:2268:TRP:O	1:A:2272:ASN:ND2	2.22	0.72
1:C:270:GLN:H	2:C:2801:JYP:C4	1.96	0.72
1:B:78:PRO:HA	1:B:81:ASN:O	1.89	0.72
1:D:2213:PRO:HD3	1:D:2647:LEU:HB2	0.73	0.72
1:A:453:LEU:HA	1:A:521:LYS:HZ3	1.54	0.72
1:A:2350:LEU:O	1:A:2351:GLN:HB2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2559:GLU:CD	1:A:2562:LEU:HG	2.07	0.72
1:C:62:PRO:CB	1:C:110:LEU:HD13	2.20	0.72
1:B:568:ARG:O	2:B:2801:JYP:O14	2.07	0.72
1:B:2241:ASN:N	1:B:2241:ASN:OD1	2.22	0.72
1:B:2549:VAL:CG2	1:B:2574:PHE:HA	2.20	0.72
1:D:817:ASP:CA	1:D:878:PHE:CA	2.67	0.72
1:D:2239:LYS:CD	1:D:2240:ILE:HG13	2.20	0.72
1:D:2566:ARG:HB3	1:D:2566:ARG:NH1	2.04	0.72
1:A:453:LEU:HA	1:A:456:ILE:HD12	1.71	0.72
1:C:453:LEU:HA	1:C:456:ILE:HD12	1.71	0.72
1:C:2411:PHE:O	1:C:2413:TYR:N	2.22	0.72
1:C:2649:LYS:HA	1:C:2649:LYS:CE	2.18	0.72
1:B:509:LEU:HA	1:B:512:GLU:HB3	1.71	0.72
1:B:816:ILE:O	1:B:878:PHE:N	2.23	0.72
1:B:2365:LYS:CE	1:B:2398:TYR:HB3	2.18	0.72
1:D:488:THR:CB	1:D:559:VAL:HG13	2.19	0.72
1:C:2241:ASN:OD1	1:C:2241:ASN:N	2.22	0.72
1:B:488:THR:CB	1:B:559:VAL:HG13	2.19	0.72
1:B:2576:MET:HE1	1:B:2580:ILE:CG1	2.16	0.72
1:D:453:LEU:HA	1:D:456:ILE:HD12	1.71	0.72
1:D:2549:VAL:CG2	1:D:2574:PHE:HA	2.20	0.72
1:C:108:ARG:HG3	1:C:108:ARG:NH1	1.95	0.72
1:C:481:VAL:HG11	1:C:559:VAL:HG11	1.70	0.72
1:C:564:GLN:HE22	1:C:578:PHE:HD2	1.33	0.72
1:C:602:ASN:O	1:C:603:ARG:C	2.22	0.72
1:C:2268:TRP:O	1:C:2272:ASN:ND2	2.22	0.72
1:B:2350:LEU:O	1:B:2351:GLN:HB2	1.90	0.72
1:B:2649:LYS:HA	1:B:2649:LYS:CE	2.18	0.72
1:D:2649:LYS:HA	1:D:2649:LYS:CE	2.18	0.72
1:A:74:LYS:HA	1:A:74:LYS:CE	2.20	0.72
1:A:108:ARG:HG3	1:A:108:ARG:NH1	1.95	0.72
1:A:488:THR:CB	1:A:559:VAL:HG13	2.19	0.72
1:A:509:LEU:HA	1:A:512:GLU:HB3	1.71	0.72
1:A:2239:LYS:CD	1:A:2240:ILE:HG13	2.20	0.72
1:C:488:THR:CB	1:C:559:VAL:HG13	2.19	0.72
1:C:2239:LYS:CD	1:C:2240:ILE:HG13	2.20	0.72
1:C:2547:GLY:HA2	1:D:2546:GLY:H	1.54	0.72
1:B:74:LYS:HA	1:B:74:LYS:CE	2.20	0.72
1:D:269:ARG:HB3	2:D:2801:JYP:C4	1.94	0.72
1:D:2285:VAL:HG23	1:D:2417:LEU:HD13	1.69	0.72
1:D:2411:PHE:O	1:D:2413:TYR:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2649:LYS:C	1:D:2650:VAL:HG13	2.08	0.72
1:A:2549:VAL:CG2	1:A:2574:PHE:HA	2.20	0.72
1:C:2576:MET:HE2	1:C:2580:ILE:CG1	2.19	0.72
1:B:2213:PRO:HD3	1:B:2647:LEU:HB2	0.73	0.72
1:A:2239:LYS:NZ	1:A:2677:ARG:NE	2.36	0.71
1:C:2560:GLU:HG2	1:C:2563:PHE:CE2	2.16	0.71
1:C:2586:PHE:HE1	1:B:2583:ASN:HB3	1.48	0.71
1:B:481:VAL:HG11	1:B:559:VAL:HG11	1.70	0.71
1:B:2288:ASN:HD21	1:B:2417:LEU:CB	1.91	0.71
1:B:2401:ILE:CB	1:B:2416:LEU:HD22	2.20	0.71
1:B:2411:PHE:O	1:B:2413:TYR:N	2.22	0.71
1:B:2576:MET:HE2	1:B:2580:ILE:CG1	2.20	0.71
1:D:816:ILE:O	1:D:878:PHE:N	2.23	0.71
1:D:2288:ASN:HB2	1:D:2413:TYR:C	2.11	0.71
1:A:522:LEU:CD2	1:A:553:CYS:SG	2.78	0.71
1:A:816:ILE:O	1:A:878:PHE:N	2.23	0.71
1:C:2213:PRO:HD3	1:C:2647:LEU:HB2	0.73	0.71
1:C:2732:ARG:HB3	1:C:2732:ARG:NH1	2.03	0.71
1:B:453:LEU:HA	1:B:456:ILE:HD12	1.71	0.71
1:D:2219:LEU:CD2	1:D:2254:MET:HE1	2.20	0.71
1:A:602:ASN:O	1:A:603:ARG:C	2.22	0.71
1:C:78:PRO:HA	1:C:81:ASN:O	1.89	0.71
1:C:2706:MET:O	1:B:2707:LYS:HE2	1.90	0.71
1:D:263:PHE:HD2	1:D:265:ARG:HH21	1.37	0.71
1:D:2694:GLU:H	1:D:2698:LEU:HD12	1.55	0.71
1:B:2288:ASN:HB2	1:B:2413:TYR:C	2.11	0.71
1:D:522:LEU:CD2	1:D:553:CYS:SG	2.78	0.71
1:D:2288:ASN:HB2	1:D:2413:TYR:CB	2.19	0.71
1:A:443:LEU:O	1:A:443:LEU:HD22	1.91	0.71
1:C:574:ILE:CA	1:C:577:GLN:OE1	2.32	0.71
1:D:74:LYS:HA	1:D:74:LYS:CE	2.20	0.71
1:D:2401:ILE:CB	1:D:2416:LEU:HD22	2.20	0.71
1:A:2401:ILE:CB	1:A:2416:LEU:HD22	2.20	0.71
1:A:2699:GLN:HG3	1:D:2700:GLU:OE1	1.91	0.71
1:C:74:LYS:HA	1:C:74:LYS:CE	2.20	0.71
1:C:2350:LEU:O	1:C:2351:GLN:HB2	1.90	0.71
1:C:2368:PHE:CE2	1:C:2395:HIS:CE1	2.76	0.71
1:B:443:LEU:O	1:B:443:LEU:HD22	1.91	0.71
1:B:2345:ILE:O	1:B:2348:VAL:HG12	1.86	0.71
1:D:2348:VAL:CG2	1:D:2353:THR:HG22	2.21	0.71
1:D:2365:LYS:HZ1	1:D:2395:HIS:HB3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:78:PRO:C	1:C:81:ASN:O	2.29	0.71
1:C:2288:ASN:HB2	1:C:2413:TYR:C	2.11	0.71
1:C:2649:LYS:C	1:C:2650:VAL:HG13	2.08	0.71
1:B:453:LEU:HA	1:B:521:LYS:HZ3	1.54	0.71
1:B:2368:PHE:CE2	1:B:2395:HIS:CE1	2.76	0.71
1:B:2372:PHE:CE2	1:B:2391:GLU:HG3	2.24	0.71
1:D:1619:VAL:C	1:D:1621:ALA:N	2.41	0.71
1:C:2549:VAL:CG2	1:C:2574:PHE:HA	2.20	0.71
1:B:2239:LYS:CD	1:B:2240:ILE:HG13	2.20	0.71
1:D:568:ARG:O	2:D:2801:JYP:O14	2.07	0.71
1:C:816:ILE:O	1:C:878:PHE:N	2.23	0.71
1:C:2348:VAL:CG2	1:C:2353:THR:HG22	2.21	0.71
1:B:270:GLN:H	2:B:2801:JYP:C4	1.96	0.71
1:B:554:ARG:NE	1:B:554:ARG:O	2.24	0.71
1:B:2271:ARG:HH12	1:B:2272:ASN:CG	1.88	0.71
1:B:2649:LYS:C	1:B:2650:VAL:HG13	2.08	0.71
1:B:2683:LEU:C	1:B:2684:VAL:HG22	2.11	0.71
1:A:237:GLY:O	1:A:283:GLU:HG3	1.91	0.71
1:A:2434:VAL:HG13	1:A:2589:ILE:CD1	2.21	0.71
1:D:460:LEU:HD23	1:D:465:ILE:CG2	2.09	0.71
1:D:564:GLN:CB	1:D:574:ILE:CD1	2.66	0.71
1:D:2732:ARG:HB3	1:D:2732:ARG:NH1	2.03	0.71
1:A:263:PHE:HD2	1:A:265:ARG:HH21	1.37	0.70
1:A:2288:ASN:HB2	1:A:2413:TYR:C	2.11	0.70
1:C:2407:PHE:H	1:C:2408:VAL:HG22	1.55	0.70
1:C:2434:VAL:HG13	1:C:2589:ILE:CD1	2.21	0.70
1:D:2241:ASN:OD1	1:D:2241:ASN:N	2.22	0.70
1:D:2618:ARG:HD2	1:D:2628:PHE:CZ	2.26	0.70
1:D:2716:LEU:H	1:D:2716:LEU:CD2	1.93	0.70
1:A:2407:PHE:H	1:A:2408:VAL:HG22	1.55	0.70
1:C:2624:LYS:HB2	1:C:2624:LYS:NZ	2.06	0.70
1:B:237:GLY:O	1:B:283:GLU:HG3	1.91	0.70
1:B:522:LEU:CD2	1:B:553:CYS:SG	2.78	0.70
1:B:564:GLN:CB	1:B:574:ILE:CD1	2.66	0.70
1:B:2434:VAL:HG13	1:B:2589:ILE:CD1	2.21	0.70
1:D:2350:LEU:O	1:D:2351:GLN:HB2	1.90	0.70
1:A:88:LEU:C	1:A:92:LEU:HD11	2.01	0.70
1:A:574:ILE:CA	1:A:577:GLN:OE1	2.32	0.70
1:A:1961:ALA:O	1:A:1965:ILE:N	2.22	0.70
1:A:2273:MET:HB2	1:A:2371:SER:HG	1.54	0.70
1:A:2546:GLY:H	1:D:2547:GLY:HA2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2649:LYS:C	1:A:2650:VAL:HG13	2.08	0.70
1:C:2191:LYS:O	1:C:2212:VAL:CG2	2.39	0.70
1:C:2694:GLU:H	1:C:2698:LEU:HD12	1.55	0.70
1:B:1313:GLN:O	1:B:1317:LYS:CA	2.40	0.70
1:D:237:GLY:O	1:D:283:GLU:HG3	1.91	0.70
1:D:443:LEU:O	1:D:443:LEU:HD22	1.91	0.70
1:D:554:ARG:O	1:D:554:ARG:NE	2.24	0.70
1:A:2732:ARG:HH11	1:A:2732:ARG:CB	2.03	0.70
1:C:2288:ASN:HD21	1:C:2417:LEU:CB	1.91	0.70
1:C:2683:LEU:C	1:C:2684:VAL:HG22	2.10	0.70
1:D:2448:ALA:HB2	1:D:2581:VAL:HG21	1.74	0.70
1:A:554:ARG:NE	1:A:554:ARG:O	2.24	0.70
1:C:522:LEU:CD2	1:C:553:CYS:SG	2.78	0.70
1:C:554:ARG:NE	1:C:554:ARG:O	2.24	0.70
1:C:2239:LYS:HZ2	1:C:2677:ARG:HE	1.36	0.70
1:C:2349:GLY:O	1:C:2352:PRO:CD	2.40	0.70
1:C:2612:PHE:CD2	1:C:2638:MET:SD	2.85	0.70
1:B:2191:LYS:O	1:B:2212:VAL:CG2	2.39	0.70
1:B:2387:VAL:HG13	1:B:2388:LEU:HD23	1.72	0.70
1:B:2694:GLU:H	1:B:2698:LEU:HD12	1.56	0.70
1:D:2434:VAL:HG13	1:D:2589:ILE:CD1	2.21	0.70
1:A:2211:PRO:O	1:A:2647:LEU:HD21	1.89	0.70
1:A:2368:PHE:CE2	1:A:2395:HIS:CE1	2.76	0.70
1:A:2694:GLU:H	1:A:2698:LEU:HD12	1.55	0.70
1:C:443:LEU:O	1:C:443:LEU:HD22	1.91	0.70
1:C:2448:ALA:HB2	1:C:2581:VAL:HG21	1.74	0.70
1:A:2618:ARG:HD2	1:A:2628:PHE:CZ	2.26	0.70
1:C:237:GLY:O	1:C:283:GLU:HG3	1.91	0.70
1:C:1313:GLN:O	1:C:1317:LYS:CA	2.40	0.70
1:C:2447:LEU:HD12	1:D:2427:LEU:HD21	1.74	0.70
1:D:78:PRO:C	1:D:81:ASN:O	2.29	0.70
1:D:2407:PHE:H	1:D:2408:VAL:HG22	1.55	0.70
1:D:2694:GLU:N	1:D:2698:LEU:HD12	2.07	0.70
1:A:2622:ASP:CB	1:A:2628:PHE:CG	2.74	0.70
1:C:2618:ARG:HD2	1:C:2628:PHE:CZ	2.26	0.70
1:D:1313:GLN:O	1:D:1317:LYS:CA	2.40	0.70
1:A:78:PRO:C	1:A:81:ASN:O	2.29	0.70
1:A:2241:ASN:OD1	1:A:2241:ASN:N	2.22	0.70
1:A:2288:ASN:HB2	1:A:2413:TYR:CB	2.19	0.70
1:A:2624:LYS:HB2	1:A:2624:LYS:NZ	2.06	0.70
1:A:2696:ARG:NH2	1:B:2696:ARG:NH2	2.35	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2401:ILE:CB	1:C:2416:LEU:HD22	2.20	0.70
1:B:2348:VAL:HG12	1:B:2353:THR:HB	1.72	0.70
1:B:2619:ASP:OD2	1:B:2619:ASP:N	2.25	0.70
1:B:2622:ASP:CB	1:B:2628:PHE:CG	2.74	0.70
1:B:2732:ARG:HH11	1:B:2732:ARG:CB	2.03	0.70
1:D:1961:ALA:O	1:D:1965:ILE:N	2.22	0.70
1:D:2191:LYS:O	1:D:2212:VAL:CG2	2.39	0.70
1:A:2345:ILE:CD1	1:A:2356:LEU:HD23	2.15	0.70
1:A:2345:ILE:HG23	1:A:2348:VAL:CG1	2.22	0.70
1:A:2628:PHE:O	1:A:2631:HIS:ND1	2.25	0.70
1:C:2272:ASN:CG	1:C:2276:TRP:CZ2	2.63	0.70
1:C:2583:ASN:HB2	1:D:2586:PHE:CZ	2.27	0.70
1:C:2677:ARG:NH2	1:D:2623:ASN:ND2	2.39	0.70
1:C:2700:GLU:CD	1:D:2699:GLN:HA	2.13	0.70
1:B:85:ASP:N	1:B:85:ASP:OD1	2.16	0.70
1:B:2624:LYS:HB2	1:B:2624:LYS:NZ	2.06	0.70
1:A:2694:GLU:N	1:A:2698:LEU:HD12	2.07	0.69
1:C:92:LEU:HD13	1:C:92:LEU:N	2.07	0.69
1:C:646:PRO:C	1:C:649:GLN:N	2.45	0.69
1:C:2285:VAL:HG23	1:C:2417:LEU:HD13	1.69	0.69
1:C:2618:ARG:HB3	1:C:2618:ARG:CZ	2.16	0.69
1:B:104:GLU:C	1:B:106:GLU:H	1.95	0.69
1:B:263:PHE:HD2	1:B:265:ARG:HH21	1.37	0.69
1:B:2694:GLU:N	1:B:2698:LEU:HD12	2.07	0.69
1:D:2619:ASP:OD2	1:D:2619:ASP:N	2.25	0.69
1:D:2624:LYS:HB2	1:D:2624:LYS:NZ	2.06	0.69
1:A:275:ALA:CB	2:A:2801:JYP:N4	2.46	0.69
1:A:2387:VAL:HG13	1:A:2388:LEU:HD23	1.73	0.69
1:A:2612:PHE:CD2	1:A:2638:MET:SD	2.85	0.69
1:C:2622:ASP:CB	1:C:2628:PHE:CG	2.74	0.69
1:B:2448:ALA:HB2	1:B:2581:VAL:HG21	1.74	0.69
1:D:574:ILE:CA	1:D:577:GLN:OE1	2.32	0.69
1:D:2273:MET:HB2	1:D:2371:SER:HG	1.54	0.69
1:D:2612:PHE:CD2	1:D:2638:MET:SD	2.85	0.69
1:A:92:LEU:HD13	1:A:92:LEU:N	2.07	0.69
1:A:646:PRO:C	1:A:649:GLN:N	2.45	0.69
1:A:2365:LYS:CE	1:A:2395:HIS:O	2.40	0.69
1:A:2365:LYS:HZ1	1:A:2395:HIS:HB3	1.57	0.69
1:A:2433:SER:CB	1:A:2593:PHE:CE1	2.59	0.69
1:A:2576:MET:HE2	1:A:2580:ILE:CG1	2.21	0.69
1:C:2365:LYS:HZ1	1:C:2395:HIS:HB3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2387:VAL:HG13	1:C:2388:LEU:HD23	1.73	0.69
1:B:69:GLN:NE2	1:B:100:LYS:CD	2.24	0.69
1:B:486:GLY:HA3	1:B:510:MET:HE3	1.74	0.69
1:B:2191:LYS:O	1:B:2192:HIS:CB	2.40	0.69
1:B:2732:ARG:HB3	1:B:2732:ARG:NH1	2.03	0.69
1:A:74:LYS:HA	1:A:74:LYS:HZ1	1.55	0.69
1:A:2191:LYS:O	1:A:2212:VAL:CG2	2.39	0.69
1:A:2706:MET:O	1:D:2707:LYS:CE	2.40	0.69
1:C:263:PHE:HD2	1:C:265:ARG:HH21	1.37	0.69
1:C:2546:GLY:H	1:B:2547:GLY:HA2	1.57	0.69
1:B:2345:ILE:HG23	1:B:2348:VAL:CG1	2.22	0.69
1:D:2268:TRP:O	1:D:2271:ARG:HD3	1.93	0.69
1:D:2272:ASN:CG	1:D:2276:TRP:CZ2	2.63	0.69
1:A:564:GLN:CB	1:A:574:ILE:CD1	2.66	0.69
1:A:1313:GLN:O	1:A:1317:LYS:CA	2.40	0.69
1:C:2211:PRO:O	1:C:2647:LEU:HD21	1.89	0.69
1:C:2268:TRP:O	1:C:2271:ARG:HD3	1.93	0.69
1:D:2622:ASP:CB	1:D:2628:PHE:CG	2.74	0.69
1:A:68:ALA:C	1:A:100:LYS:HZ1	1.96	0.69
1:A:68:ALA:HB1	1:A:96:ALA:HA	1.74	0.69
1:A:2276:TRP:HB3	1:A:2367:ILE:CD1	2.23	0.69
1:C:453:LEU:HD23	1:C:453:LEU:N	2.08	0.69
1:B:68:ALA:HB1	1:B:96:ALA:HA	1.74	0.69
1:B:89:LEU:O	1:B:92:LEU:HD22	1.87	0.69
1:B:92:LEU:HD13	1:B:92:LEU:N	2.07	0.69
1:B:2407:PHE:H	1:B:2408:VAL:HG22	1.55	0.69
1:B:2618:ARG:HD2	1:B:2628:PHE:CZ	2.26	0.69
1:D:520:PHE:CD1	1:D:523:LEU:CD1	2.70	0.69
1:A:2448:ALA:HB2	1:A:2581:VAL:HG21	1.74	0.69
1:A:2696:ARG:NH2	1:B:2696:ARG:HH22	1.91	0.69
1:A:2713:SER:CB	1:D:2715:GLN:HE21	2.01	0.69
1:A:2732:ARG:HB3	1:A:2732:ARG:NH1	2.03	0.69
1:C:275:ALA:CB	2:C:2801:JYP:N4	2.46	0.69
1:C:2285:VAL:HG23	1:C:2288:ASN:HD21	1.57	0.69
1:C:2345:ILE:HG23	1:C:2348:VAL:CG1	2.22	0.69
1:C:2399:LEU:O	1:C:2402:CYS:HB2	1.92	0.69
1:B:78:PRO:C	1:B:81:ASN:O	2.29	0.69
1:B:2272:ASN:CG	1:B:2276:TRP:CZ2	2.63	0.69
1:B:2276:TRP:HB3	1:B:2367:ILE:CD1	2.23	0.69
1:D:85:ASP:OD1	1:D:85:ASP:N	2.16	0.69
1:D:92:LEU:N	1:D:92:LEU:HD13	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:453:LEU:CA	1:D:521:LYS:HZ2	2.02	0.69
1:D:646:PRO:C	1:D:649:GLN:N	2.45	0.69
1:D:2285:VAL:HG23	1:D:2288:ASN:HD21	1.57	0.69
1:D:2399:LEU:O	1:D:2402:CYS:HB2	1.92	0.69
1:A:270:GLN:HE22	1:A:271:SER:H	1.37	0.69
1:C:2622:ASP:CG	1:C:2628:PHE:CE1	2.61	0.69
1:C:2694:GLU:N	1:C:2698:LEU:HD12	2.07	0.69
1:B:441:ARG:CZ	1:B:441:ARG:HB2	2.23	0.69
1:B:2239:LYS:HZ3	1:B:2677:ARG:CD	2.04	0.69
1:B:2612:PHE:CD2	1:B:2638:MET:SD	2.85	0.69
1:D:2216:CYS:HG	1:D:2646:VAL:HG21	1.56	0.69
1:D:2276:TRP:HB3	1:D:2367:ILE:CD1	2.23	0.69
1:D:2368:PHE:CE2	1:D:2395:HIS:CE1	2.76	0.69
1:D:2387:VAL:HG13	1:D:2388:LEU:HD23	1.73	0.69
1:A:2243:PHE:HE2	1:A:2638:MET:HB3	1.50	0.69
1:A:2560:GLU:CG	1:A:2563:PHE:HE2	1.80	0.69
1:A:2649:LYS:HA	1:A:2649:LYS:HZ2	1.54	0.69
1:C:2427:LEU:HD11	1:B:2447:LEU:HD13	1.74	0.69
1:C:2619:ASP:N	1:C:2619:ASP:OD2	2.25	0.69
1:B:460:LEU:HD13	1:B:460:LEU:C	2.14	0.69
1:B:514:ASN:HB3	1:B:517:LYS:N	2.07	0.69
1:B:2349:GLY:O	1:B:2352:PRO:CD	2.40	0.69
1:B:2628:PHE:O	1:B:2631:HIS:ND1	2.25	0.69
1:D:448:ASP:HA	1:D:451:LYS:HD2	1.75	0.69
1:D:2345:ILE:O	1:D:2348:VAL:HG12	1.86	0.69
1:D:2683:LEU:C	1:D:2684:VAL:HG22	2.11	0.69
1:A:104:GLU:C	1:A:106:GLU:H	1.95	0.68
1:A:2348:VAL:CG2	1:A:2353:THR:HG22	2.21	0.68
1:C:2181:ASP:O	1:C:2183:ASP:OD1	2.11	0.68
1:C:2288:ASN:HB2	1:C:2413:TYR:CB	2.19	0.68
1:C:2365:LYS:CE	1:C:2395:HIS:O	2.40	0.68
1:B:1961:ALA:O	1:B:1965:ILE:N	2.22	0.68
1:B:2365:LYS:CE	1:B:2395:HIS:O	2.40	0.68
1:B:2558:LYS:CD	1:B:2560:GLU:CG	2.71	0.68
1:B:2560:GLU:CG	1:B:2563:PHE:HE2	1.79	0.68
1:D:2345:ILE:HG23	1:D:2348:VAL:CG1	2.22	0.68
1:A:460:LEU:HD13	1:A:460:LEU:C	2.14	0.68
1:A:2239:LYS:HG3	1:A:2613:ILE:CG2	2.24	0.68
1:A:2349:GLY:O	1:A:2352:PRO:CD	2.40	0.68
1:A:2354:LEU:C	1:A:2354:LEU:HD12	2.14	0.68
1:C:441:ARG:HB2	1:C:441:ARG:CZ	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:646:PRO:C	1:B:649:GLN:N	2.45	0.68
1:B:2348:VAL:CG2	1:B:2353:THR:HG22	2.21	0.68
1:B:2354:LEU:C	1:B:2354:LEU:HD12	2.14	0.68
1:D:89:LEU:O	1:D:92:LEU:HD22	1.87	0.68
1:D:514:ASN:HB3	1:D:517:LYS:N	2.07	0.68
1:D:2365:LYS:CE	1:D:2395:HIS:O	2.40	0.68
1:A:453:LEU:O	1:A:521:LYS:HD2	1.94	0.68
1:A:514:ASN:O	1:A:515:ILE:C	2.32	0.68
1:A:2181:ASP:O	1:A:2183:ASP:OD1	2.11	0.68
1:A:2619:ASP:OD2	1:A:2619:ASP:N	2.25	0.68
1:C:68:ALA:HB1	1:C:96:ALA:HA	1.74	0.68
1:C:104:GLU:C	1:C:106:GLU:H	1.95	0.68
1:C:460:LEU:HD13	1:C:460:LEU:C	2.13	0.68
1:C:2271:ARG:HH12	1:C:2272:ASN:ND2	1.89	0.68
1:C:2623:ASN:CG	1:B:2677:ARG:NH2	2.45	0.68
1:D:68:ALA:HB1	1:D:96:ALA:HA	1.74	0.68
1:D:453:LEU:O	1:D:521:LYS:HD2	1.94	0.68
1:A:2623:ASN:OD1	1:D:2677:ARG:CD	2.38	0.68
1:A:2699:GLN:HA	1:D:2700:GLU:CD	2.12	0.68
1:C:2240:ILE:N	1:C:2240:ILE:HD12	2.08	0.68
1:B:2399:LEU:O	1:B:2402:CYS:HB2	1.92	0.68
1:D:441:ARG:CZ	1:D:441:ARG:HB2	2.23	0.68
1:A:514:ASN:HB3	1:A:517:LYS:N	2.07	0.68
1:A:2559:GLU:OE1	1:A:2562:LEU:HD23	1.70	0.68
1:C:443:LEU:HD22	1:C:443:LEU:C	2.14	0.68
1:B:2288:ASN:HB2	1:B:2413:TYR:CB	2.19	0.68
1:D:2211:PRO:O	1:D:2647:LEU:HD21	1.89	0.68
1:A:2268:TRP:O	1:A:2271:ARG:HD3	1.93	0.68
1:A:2285:VAL:HG23	1:A:2288:ASN:HD21	1.57	0.68
1:A:2288:ASN:HD21	1:A:2417:LEU:CB	1.91	0.68
1:A:2622:ASP:CG	1:A:2628:PHE:CE1	2.61	0.68
1:C:453:LEU:O	1:C:521:LYS:HD2	1.94	0.68
1:B:646:PRO:O	1:B:650:GLU:N	2.24	0.68
1:B:2240:ILE:N	1:B:2240:ILE:HD12	2.08	0.68
1:D:2213:PRO:HG3	1:D:2647:LEU:CA	2.06	0.68
1:D:2732:ARG:HH11	1:D:2732:ARG:CB	2.03	0.68
1:C:2276:TRP:HB3	1:C:2367:ILE:CD1	2.23	0.68
1:C:2624:LYS:HB2	1:C:2624:LYS:HZ3	1.57	0.68
1:C:2655:GLU:OE1	1:C:2655:GLU:N	2.18	0.68
1:B:2268:TRP:O	1:B:2271:ARG:HD3	1.93	0.68
1:D:2181:ASP:O	1:D:2183:ASP:OD1	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:TRP:O	1:A:74:LYS:C	2.32	0.68
1:A:2624:LYS:HB2	1:A:2624:LYS:HZ3	1.58	0.68
1:C:2219:LEU:CD2	1:C:2254:MET:HE1	2.24	0.68
1:D:646:PRO:O	1:D:650:GLU:N	2.24	0.68
1:D:2354:LEU:C	1:D:2354:LEU:HD12	2.14	0.68
1:A:2240:ILE:N	1:A:2240:ILE:HD12	2.08	0.68
1:D:443:LEU:HD22	1:D:443:LEU:C	2.14	0.68
1:D:522:LEU:HD13	1:D:522:LEU:C	2.14	0.68
1:A:2399:LEU:HD22	1:A:2399:LEU:C	2.15	0.68
1:A:2558:LYS:CD	1:A:2560:GLU:CG	2.71	0.68
1:C:520:PHE:CD1	1:C:523:LEU:CD1	2.70	0.68
1:C:2354:LEU:HD12	1:C:2354:LEU:C	2.14	0.68
1:B:453:LEU:O	1:B:521:LYS:HD2	1.94	0.68
1:B:453:LEU:N	1:B:453:LEU:HD23	2.08	0.68
1:B:2181:ASP:O	1:B:2183:ASP:OD1	2.11	0.68
1:B:2239:LYS:HG3	1:B:2613:ILE:CG2	2.24	0.68
1:B:2243:PHE:CE2	1:B:2638:MET:CB	2.53	0.68
1:D:2399:LEU:HD22	1:D:2399:LEU:C	2.15	0.68
1:D:2628:PHE:O	1:D:2631:HIS:ND1	2.25	0.68
1:A:441:ARG:HB2	1:A:441:ARG:CZ	2.23	0.67
1:A:443:LEU:HD22	1:A:443:LEU:C	2.14	0.67
1:A:453:LEU:N	1:A:453:LEU:HD23	2.08	0.67
1:A:2399:LEU:O	1:A:2402:CYS:HB2	1.92	0.67
1:B:2720:LYS:HE2	1:B:2720:LYS:CA	2.24	0.67
1:D:179:GLY:H	1:D:220:ILE:HB	1.59	0.67
1:D:2612:PHE:HB3	1:D:2636:HIS:HB3	1.77	0.67
1:A:179:GLY:H	1:A:220:ILE:HB	1.59	0.67
1:A:448:ASP:HA	1:A:451:LYS:HD2	1.75	0.67
1:A:646:PRO:O	1:A:650:GLU:N	2.24	0.67
1:A:2272:ASN:CG	1:A:2276:TRP:CZ2	2.63	0.67
1:C:2573:PHE:O	1:C:2574:PHE:C	2.29	0.67
1:B:514:ASN:O	1:B:515:ILE:C	2.32	0.67
1:D:73:TRP:O	1:D:74:LYS:C	2.32	0.67
1:A:2345:ILE:C	1:A:2348:VAL:CG1	2.57	0.67
1:C:2628:PHE:O	1:C:2631:HIS:ND1	2.25	0.67
1:C:2732:ARG:HH11	1:C:2732:ARG:CB	2.03	0.67
1:B:443:LEU:HD22	1:B:443:LEU:C	2.14	0.67
1:B:564:GLN:HB2	1:B:574:ILE:HD12	1.74	0.67
1:B:2211:PRO:O	1:B:2647:LEU:HD21	1.89	0.67
1:D:2432:LYS:C	1:D:2434:VAL:N	2.47	0.67
1:A:1979:ASN:O	1:A:1980:HIS:C	2.32	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:448:ASP:HA	1:C:451:LYS:HD2	1.75	0.67
1:C:564:GLN:CB	1:C:574:ILE:CD1	2.66	0.67
1:C:564:GLN:HB2	1:C:574:ILE:HD12	1.74	0.67
1:C:2710:THR:CB	1:B:2707:LYS:HZ2	1.89	0.67
1:B:88:LEU:H	1:B:88:LEU:HD13	1.59	0.67
1:B:2213:PRO:HD3	1:B:2647:LEU:CG	2.24	0.67
1:B:2285:VAL:HG23	1:B:2417:LEU:HD13	1.69	0.67
1:B:2624:LYS:HB2	1:B:2624:LYS:HZ3	1.57	0.67
1:D:2349:GLY:O	1:D:2352:PRO:CD	2.40	0.67
1:A:2356:LEU:C	1:A:2356:LEU:HD12	2.15	0.67
1:A:2583:ASN:ND2	1:B:2586:PHE:CG	2.62	0.67
1:A:2713:SER:OG	1:D:2715:GLN:NE2	2.26	0.67
1:A:2720:LYS:HE2	1:A:2720:LYS:CA	2.24	0.67
1:C:524:GLN:HA	1:C:527:PHE:HD2	1.60	0.67
1:C:1979:ASN:O	1:C:1980:HIS:C	2.32	0.67
1:C:2239:LYS:HG3	1:C:2613:ILE:CG2	2.24	0.67
1:C:2285:VAL:HG22	1:C:2289:LEU:HD12	1.76	0.67
1:B:2285:VAL:HG23	1:B:2288:ASN:HD21	1.57	0.67
1:D:68:ALA:C	1:D:100:LYS:HZ1	1.97	0.67
1:D:72:PHE:O	1:D:75:ALA:HB2	1.94	0.67
1:D:2191:LYS:O	1:D:2192:HIS:CB	2.40	0.67
1:D:2720:LYS:HE2	1:D:2720:LYS:CA	2.24	0.67
1:A:72:PHE:O	1:A:75:ALA:HB2	1.94	0.67
1:A:2558:LYS:CE	1:A:2560:GLU:OE2	2.43	0.67
1:A:2683:LEU:C	1:A:2684:VAL:HG22	2.11	0.67
1:C:2699:GLN:CA	1:B:2700:GLU:OE1	2.40	0.67
1:D:453:LEU:N	1:D:453:LEU:HD23	2.08	0.67
1:D:524:GLN:HA	1:D:527:PHE:HD2	1.60	0.67
1:D:2239:LYS:HG3	1:D:2613:ILE:CG2	2.24	0.67
1:D:2573:PHE:O	1:D:2574:PHE:C	2.29	0.67
1:D:2650:VAL:HG23	1:D:2651:LYS:HG3	1.76	0.67
1:B:2216:CYS:SG	1:B:2646:VAL:HG13	2.35	0.67
1:B:2356:LEU:C	1:B:2356:LEU:HD12	2.15	0.67
1:B:2559:GLU:OE1	1:B:2562:LEU:HD23	1.70	0.67
1:D:2240:ILE:N	1:D:2240:ILE:HD12	2.08	0.67
1:A:522:LEU:HD13	1:A:522:LEU:C	2.14	0.67
1:C:391:ARG:NH1	1:C:396:ASN:OD1	2.28	0.67
1:C:2239:LYS:HE2	1:C:2240:ILE:HG13	1.77	0.67
1:C:2558:LYS:CD	1:C:2560:GLU:CG	2.71	0.67
1:B:391:ARG:NH1	1:B:396:ASN:OD1	2.28	0.67
1:D:104:GLU:C	1:D:106:GLU:H	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2219:LEU:CD2	1:A:2254:MET:HE1	2.24	0.67
1:A:2612:PHE:HB3	1:A:2636:HIS:HB3	1.77	0.67
1:C:2399:LEU:HD22	1:C:2399:LEU:C	2.15	0.67
1:C:2720:LYS:HE2	1:C:2720:LYS:CA	2.24	0.67
1:B:522:LEU:HD13	1:B:522:LEU:C	2.14	0.67
1:D:1979:ASN:O	1:D:1980:HIS:C	2.32	0.67
1:D:2356:LEU:C	1:D:2356:LEU:HD12	2.15	0.67
1:D:2558:LYS:CE	1:D:2560:GLU:OE2	2.43	0.67
1:A:85:ASP:OD1	1:A:85:ASP:N	2.16	0.67
1:A:524:GLN:HA	1:A:527:PHE:HD2	1.60	0.67
1:A:2191:LYS:O	1:A:2212:VAL:HG22	1.95	0.67
1:A:2348:VAL:HG12	1:A:2353:THR:HB	1.72	0.67
1:C:88:LEU:H	1:C:88:LEU:HD13	1.59	0.67
1:C:2566:ARG:HG3	1:C:2566:ARG:HH11	1.59	0.67
1:C:2650:VAL:HG23	1:C:2651:LYS:HG3	1.77	0.67
1:B:72:PHE:O	1:B:75:ALA:HB2	1.94	0.67
1:B:179:GLY:H	1:B:220:ILE:HB	1.60	0.67
1:B:2285:VAL:HG22	1:B:2289:LEU:HD12	1.76	0.67
1:D:2558:LYS:CD	1:D:2560:GLU:CG	2.71	0.67
1:A:391:ARG:NH1	1:A:396:ASN:OD1	2.28	0.66
1:A:2468:ILE:O	1:A:2526:HIS:ND1	2.28	0.66
1:C:488:THR:OG1	1:C:559:VAL:HG13	1.95	0.66
1:C:522:LEU:HD13	1:C:522:LEU:C	2.14	0.66
1:C:2706:MET:HG2	1:B:2703:GLU:OE2	1.89	0.66
1:B:2621:PHE:O	1:B:2624:LYS:CG	2.41	0.66
1:D:2285:VAL:HG22	1:D:2289:LEU:HD12	1.76	0.66
1:D:2655:GLU:OE1	1:D:2655:GLU:N	2.18	0.66
1:A:88:LEU:H	1:A:88:LEU:HD13	1.59	0.66
1:A:2566:ARG:HH11	1:A:2566:ARG:HG3	1.59	0.66
1:C:72:PHE:O	1:C:75:ALA:HB2	1.94	0.66
1:C:73:TRP:O	1:C:74:LYS:C	2.31	0.66
1:C:2239:LYS:HG3	1:C:2613:ILE:HG21	1.77	0.66
1:B:2399:LEU:HD22	1:B:2399:LEU:C	2.15	0.66
1:B:2558:LYS:CE	1:B:2560:GLU:OE2	2.43	0.66
1:A:488:THR:OG1	1:A:559:VAL:HG13	1.95	0.66
1:C:179:GLY:H	1:C:220:ILE:HB	1.59	0.66
1:C:2356:LEU:C	1:C:2356:LEU:HD12	2.15	0.66
1:B:488:THR:OG1	1:B:559:VAL:HG13	1.94	0.66
1:B:524:GLN:HA	1:B:527:PHE:HD2	1.60	0.66
1:B:2612:PHE:HB3	1:B:2636:HIS:HB3	1.77	0.66
1:D:88:LEU:H	1:D:88:LEU:HD13	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2715:GLN:CD	1:B:2713:SER:CB	2.62	0.66
1:C:2434:VAL:HG21	1:B:2584:LEU:CD1	2.16	0.66
1:D:391:ARG:NH1	1:D:396:ASN:OD1	2.28	0.66
1:D:450:SER:HA	1:D:453:LEU:HD12	1.77	0.66
1:D:460:LEU:HD13	1:D:460:LEU:C	2.14	0.66
1:D:1107:GLN:O	1:D:1110:ASP:N	2.28	0.66
1:D:2239:LYS:HG3	1:D:2613:ILE:HG21	1.77	0.66
1:D:2239:LYS:HE2	1:D:2240:ILE:HG13	1.77	0.66
1:D:2468:ILE:O	1:D:2526:HIS:ND1	2.28	0.66
1:A:2657:THR:HA	1:A:2660:GLU:HB2	1.78	0.66
1:A:2735:LEU:HD13	1:A:2735:LEU:C	2.16	0.66
1:C:1961:ALA:O	1:C:1965:ILE:N	2.22	0.66
1:C:2549:VAL:CG2	1:C:2573:PHE:HD2	2.09	0.66
1:B:2432:LYS:C	1:B:2434:VAL:N	2.47	0.66
1:B:2549:VAL:CG2	1:B:2573:PHE:HD2	2.09	0.66
1:D:108:ARG:NH1	1:D:108:ARG:O	2.29	0.66
1:D:488:THR:OG1	1:D:559:VAL:HG13	1.95	0.66
1:D:2243:PHE:HE2	1:D:2638:MET:HB3	1.50	0.66
1:A:2239:LYS:HG3	1:A:2613:ILE:HG21	1.77	0.66
1:A:2432:LYS:C	1:A:2434:VAL:N	2.47	0.66
1:A:2650:VAL:HG23	1:A:2651:LYS:HG3	1.77	0.66
1:A:2702:LEU:HD11	1:D:2700:GLU:HG2	1.75	0.66
1:C:450:SER:HA	1:C:453:LEU:HD12	1.77	0.66
1:B:448:ASP:HA	1:B:451:LYS:HD2	1.75	0.66
1:A:547:ALA:CB	1:A:548:PRO:CD	2.17	0.66
1:A:2285:VAL:HG22	1:A:2289:LEU:HD12	1.76	0.66
1:C:2288:ASN:ND2	1:C:2417:LEU:CB	2.51	0.66
1:B:1979:ASN:O	1:B:1980:HIS:C	2.32	0.66
1:B:2560:GLU:HG2	1:B:2563:PHE:CE2	2.16	0.66
1:B:2566:ARG:HH11	1:B:2566:ARG:HG3	1.59	0.66
1:D:2566:ARG:HH11	1:D:2566:ARG:HG3	1.59	0.66
1:A:1107:GLN:O	1:A:1110:ASP:N	2.28	0.66
1:A:2655:GLU:OE1	1:A:2655:GLU:N	2.18	0.66
1:C:456:ILE:HB	1:C:521:LYS:HZ2	1.61	0.66
1:C:2213:PRO:HD3	1:C:2647:LEU:CG	2.25	0.66
1:C:2432:LYS:C	1:C:2434:VAL:N	2.47	0.66
1:C:2612:PHE:HB3	1:C:2636:HIS:HB3	1.77	0.66
1:B:92:LEU:CD2	1:B:92:LEU:H	1.96	0.66
1:B:2365:LYS:HZ1	1:B:2395:HIS:HB3	1.60	0.66
1:D:2191:LYS:O	1:D:2212:VAL:HG22	1.95	0.66
1:A:2239:LYS:HE2	1:A:2240:ILE:HG13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2243:PHE:HZ	1:A:2638:MET:CB	2.03	0.66
1:A:2621:PHE:O	1:A:2624:LYS:CG	2.41	0.66
1:B:108:ARG:NH1	1:B:108:ARG:O	2.29	0.66
1:B:1107:GLN:O	1:B:1110:ASP:N	2.28	0.66
1:B:2735:LEU:C	1:B:2735:LEU:HD13	2.16	0.66
1:D:92:LEU:HD22	1:D:92:LEU:N	2.07	0.66
1:A:2190:ALA:C	1:A:2192:HIS:N	2.48	0.66
1:C:1107:GLN:O	1:C:1110:ASP:N	2.28	0.66
1:B:88:LEU:C	1:B:92:LEU:HD11	2.01	0.66
1:B:2345:ILE:C	1:B:2348:VAL:CG1	2.57	0.66
1:B:2370:MET:HA	1:B:2370:MET:HE3	1.76	0.66
1:B:2401:ILE:HG13	1:B:2402:CYS:H	1.61	0.66
1:B:2468:ILE:O	1:B:2526:HIS:ND1	2.28	0.66
1:D:564:GLN:NE2	1:D:578:PHE:CD2	2.64	0.66
1:D:2397:LEU:HD23	1:D:2400:LEU:HD12	1.78	0.66
1:A:89:LEU:O	1:A:92:LEU:HD22	1.87	0.65
1:A:108:ARG:NH1	1:A:108:ARG:O	2.29	0.65
1:C:68:ALA:C	1:C:100:LYS:HZ3	1.97	0.65
1:C:2216:CYS:SG	1:C:2646:VAL:HG13	2.35	0.65
1:C:2397:LEU:HD23	1:C:2400:LEU:HD12	1.78	0.65
1:B:2178:GLY:O	1:B:2186:LEU:CG	2.44	0.65
1:D:2239:LYS:CE	1:D:2240:ILE:HG13	2.27	0.65
1:C:92:LEU:HD22	1:C:92:LEU:N	2.07	0.65
1:C:2191:LYS:O	1:C:2212:VAL:HG22	1.95	0.65
1:C:2621:PHE:O	1:C:2624:LYS:CG	2.41	0.65
1:B:2650:VAL:HG23	1:B:2651:LYS:HG3	1.76	0.65
1:D:2370:MET:HA	1:D:2370:MET:HE3	1.78	0.65
1:C:2558:LYS:CE	1:C:2560:GLU:OE2	2.43	0.65
1:B:68:ALA:C	1:B:100:LYS:HZ1	1.98	0.65
1:B:107:ASN:HA	1:B:110:LEU:HD12	1.79	0.65
1:B:2657:THR:HA	1:B:2660:GLU:HB2	1.78	0.65
1:D:2434:VAL:O	1:D:2434:VAL:HG12	1.97	0.65
1:D:2576:MET:HE1	1:D:2580:ILE:CG1	2.18	0.65
1:D:2735:LEU:HD13	1:D:2735:LEU:C	2.16	0.65
1:A:250:PHE:O	1:A:264:LEU:HB2	1.96	0.65
1:C:523:LEU:HD22	1:C:523:LEU:C	2.17	0.65
1:C:2468:ILE:O	1:C:2526:HIS:ND1	2.28	0.65
1:C:2707:LYS:HE2	1:D:2706:MET:C	2.17	0.65
1:B:2191:LYS:O	1:B:2212:VAL:HG22	1.95	0.65
1:B:2345:ILE:CD1	1:B:2356:LEU:HD23	2.15	0.65
1:B:2397:LEU:HD23	1:B:2400:LEU:HD12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2649:LYS:HA	1:B:2649:LYS:HZ2	1.58	0.65
1:D:2549:VAL:CG2	1:D:2573:PHE:HD2	2.09	0.65
1:A:2397:LEU:HD23	1:A:2400:LEU:HD12	1.78	0.65
1:A:2434:VAL:O	1:A:2434:VAL:HG12	1.97	0.65
1:A:2720:LYS:HD3	1:D:2725:GLU:OE1	1.97	0.65
1:C:509:LEU:C	1:C:512:GLU:HB3	2.17	0.65
1:C:514:ASN:OD1	1:C:516:LEU:HD13	1.95	0.65
1:C:2657:THR:HA	1:C:2660:GLU:HB2	1.78	0.65
1:B:2190:ALA:C	1:B:2192:HIS:N	2.48	0.65
1:B:2239:LYS:CE	1:B:2240:ILE:HG13	2.27	0.65
1:D:514:ASN:OD1	1:D:516:LEU:HD13	1.96	0.65
1:A:450:SER:HA	1:A:453:LEU:HD12	1.77	0.65
1:A:2191:LYS:O	1:A:2192:HIS:CB	2.40	0.65
1:A:2549:VAL:CG2	1:A:2573:PHE:HD2	2.09	0.65
1:A:2695:LEU:O	1:A:2698:LEU:N	2.30	0.65
1:C:107:ASN:HA	1:C:110:LEU:HD12	1.79	0.65
1:C:2178:GLY:O	1:C:2186:LEU:CG	2.44	0.65
1:B:270:GLN:HE22	1:B:271:SER:H	1.38	0.65
1:B:564:GLN:NE2	1:B:578:PHE:CD2	2.64	0.65
1:D:2695:LEU:N	1:D:2695:LEU:HD12	2.12	0.65
1:A:2178:GLY:O	1:A:2186:LEU:CG	2.44	0.65
1:A:2698:LEU:O	1:A:2698:LEU:HD23	1.97	0.65
1:C:108:ARG:NH1	1:C:108:ARG:O	2.29	0.65
1:C:2696:ARG:HH12	1:B:2696:ARG:HH21	1.35	0.65
1:B:523:LEU:C	1:B:523:LEU:HD22	2.17	0.65
1:D:509:LEU:C	1:D:512:GLU:HB3	2.17	0.65
1:D:2190:ALA:C	1:D:2192:HIS:N	2.48	0.65
1:D:2621:PHE:O	1:D:2624:LYS:CG	2.41	0.65
1:A:2213:PRO:HD3	1:A:2647:LEU:CG	2.24	0.65
1:B:250:PHE:O	1:B:264:LEU:HB2	1.96	0.65
1:B:2239:LYS:HG3	1:B:2613:ILE:HG21	1.77	0.65
1:B:2276:TRP:HB3	1:B:2367:ILE:HD13	1.79	0.65
1:B:2578:ILE:HD12	1:B:2578:ILE:O	1.97	0.65
1:A:523:LEU:HD22	1:A:523:LEU:C	2.17	0.65
1:A:564:GLN:NE2	1:A:578:PHE:CD2	2.64	0.65
1:A:564:GLN:HB2	1:A:574:ILE:HD12	1.74	0.65
1:A:2695:LEU:HD12	1:A:2695:LEU:N	2.12	0.65
1:C:2285:VAL:O	1:C:2289:LEU:HD13	1.97	0.65
1:C:2401:ILE:HG13	1:C:2402:CYS:H	1.61	0.65
1:B:2242:ASP:HA	1:B:2245:LEU:HD12	1.79	0.65
1:D:2213:PRO:HD3	1:D:2647:LEU:CG	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2276:TRP:HB3	1:D:2367:ILE:HD13	1.79	0.65
1:C:89:LEU:O	1:C:92:LEU:HD22	1.87	0.65
1:C:2038:GLU:O	1:C:2042:GLU:N	2.30	0.65
1:C:2189:TYR:O	1:C:2192:HIS:CA	2.46	0.65
1:B:2428:LEU:HD13	1:B:2428:LEU:C	2.18	0.65
1:D:250:PHE:O	1:D:264:LEU:HB2	1.96	0.65
1:D:2428:LEU:C	1:D:2428:LEU:HD13	2.18	0.65
1:A:2239:LYS:CE	1:A:2240:ILE:HG13	2.27	0.64
1:A:2285:VAL:O	1:A:2289:LEU:HD13	1.97	0.64
1:A:2288:ASN:O	1:A:2291:VAL:HG22	1.97	0.64
1:C:441:ARG:HB2	1:C:441:ARG:NH1	2.13	0.64
1:C:514:ASN:O	1:C:515:ILE:C	2.32	0.64
1:C:2412:PHE:HA	1:C:2415:LEU:HD12	1.79	0.64
1:B:450:SER:HA	1:B:453:LEU:HD12	1.77	0.64
1:B:2384:ARG:HB3	1:B:2387:VAL:HG12	1.79	0.64
1:D:441:ARG:HB2	1:D:441:ARG:NH1	2.13	0.64
1:A:509:LEU:C	1:A:512:GLU:HB3	2.17	0.64
1:C:2190:ALA:C	1:C:2192:HIS:N	2.48	0.64
1:C:2276:TRP:HB3	1:C:2367:ILE:HD13	1.78	0.64
1:C:2428:LEU:HD13	1:C:2428:LEU:C	2.18	0.64
1:C:2735:LEU:C	1:C:2735:LEU:HD13	2.16	0.64
1:B:453:LEU:O	1:B:521:LYS:CD	2.46	0.64
1:B:2038:GLU:O	1:B:2042:GLU:N	2.30	0.64
1:B:2730:LYS:C	1:B:2730:LYS:HD3	2.18	0.64
1:D:2178:GLY:O	1:D:2186:LEU:CG	2.44	0.64
1:D:2727:ARG:HA	1:D:2727:ARG:CZ	2.28	0.64
1:A:816:ILE:O	1:A:878:PHE:CA	2.46	0.64
1:A:2401:ILE:HG13	1:A:2402:CYS:H	1.61	0.64
1:A:2578:ILE:HD12	1:A:2578:ILE:O	1.97	0.64
1:B:547:ALA:CB	1:B:548:PRO:CD	2.17	0.64
1:B:2289:LEU:N	1:B:2289:LEU:HD13	2.13	0.64
1:B:2401:ILE:CG1	1:B:2402:CYS:N	2.61	0.64
1:B:2423:ARG:HD2	1:B:2423:ARG:C	2.18	0.64
1:A:2216:CYS:SG	1:A:2646:VAL:HG13	2.35	0.64
1:A:2242:ASP:HA	1:A:2245:LEU:HD12	1.79	0.64
1:A:2384:ARG:HB3	1:A:2387:VAL:HG12	1.79	0.64
1:A:2707:LYS:HG2	1:B:2706:MET:HB3	1.80	0.64
1:C:453:LEU:O	1:C:521:LYS:CD	2.46	0.64
1:C:2288:ASN:O	1:C:2291:VAL:HG22	1.97	0.64
1:C:2695:LEU:HD12	1:C:2695:LEU:N	2.12	0.64
1:B:1680:ARG:O	1:B:1684:THR:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2038:GLU:O	1:A:2042:GLU:N	2.30	0.64
1:A:2730:LYS:HD3	1:A:2730:LYS:C	2.18	0.64
1:C:2612:PHE:CD1	1:C:2638:MET:SD	2.91	0.64
1:B:443:LEU:HD21	1:B:513:GLN:NE2	2.13	0.64
1:B:2288:ASN:O	1:B:2291:VAL:HG22	1.97	0.64
1:D:523:LEU:C	1:D:523:LEU:HD22	2.17	0.64
1:D:816:ILE:O	1:D:878:PHE:CA	2.46	0.64
1:D:1680:ARG:O	1:D:1684:THR:N	2.31	0.64
1:D:2284:ALA:O	1:D:2287:MET:CB	2.41	0.64
1:D:2448:ALA:CB	1:D:2581:VAL:HG21	2.27	0.64
1:A:453:LEU:CA	1:A:521:LYS:HZ2	2.05	0.64
1:A:2189:TYR:C	1:A:2192:HIS:H	2.00	0.64
1:A:2288:ASN:ND2	1:A:2417:LEU:CB	2.51	0.64
1:A:2448:ALA:CB	1:A:2581:VAL:HG21	2.26	0.64
1:C:237:GLY:O	1:C:283:GLU:CG	2.45	0.64
1:C:646:PRO:O	1:C:650:GLU:N	2.24	0.64
1:C:816:ILE:O	1:C:878:PHE:CA	2.46	0.64
1:C:2434:VAL:O	1:C:2434:VAL:HG12	1.97	0.64
1:C:2448:ALA:CB	1:C:2581:VAL:HG21	2.27	0.64
1:C:2727:ARG:HA	1:C:2727:ARG:CZ	2.28	0.64
1:B:2239:LYS:HE2	1:B:2240:ILE:HG13	1.77	0.64
1:B:2239:LYS:HZ2	1:B:2677:ARG:NE	1.94	0.64
1:B:2448:ALA:CB	1:B:2581:VAL:HG21	2.26	0.64
1:B:2698:LEU:HD23	1:B:2698:LEU:O	1.97	0.64
1:D:237:GLY:O	1:D:283:GLU:CG	2.46	0.64
1:D:516:LEU:N	1:D:516:LEU:HD12	2.12	0.64
1:D:1995:THR:CA	1:D:1998:ASN:O	2.46	0.64
1:D:2348:VAL:HG21	1:D:2353:THR:HG22	1.78	0.64
1:A:1508:VAL:CA	1:A:1536:CYS:CA	2.76	0.64
1:A:2276:TRP:HB3	1:A:2367:ILE:HD13	1.78	0.64
1:A:2727:ARG:HA	1:A:2727:ARG:CZ	2.27	0.64
1:C:250:PHE:O	1:C:264:LEU:HB2	1.96	0.64
1:C:443:LEU:CD2	1:C:513:GLN:NE2	2.61	0.64
1:C:2191:LYS:O	1:C:2192:HIS:CB	2.40	0.64
1:C:2239:LYS:CE	1:C:2240:ILE:HG13	2.27	0.64
1:C:2576:MET:HE1	1:C:2580:ILE:CG1	2.17	0.64
1:B:2695:LEU:O	1:B:2698:LEU:N	2.30	0.64
1:B:2727:ARG:HA	1:B:2727:ARG:CZ	2.27	0.64
1:D:2189:TYR:C	1:D:2192:HIS:H	2.00	0.64
1:D:2612:PHE:CD1	1:D:2638:MET:SD	2.91	0.64
1:A:2032:LEU:O	1:A:2036:THR:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2189:TYR:O	1:A:2192:HIS:CA	2.46	0.64
1:A:2345:ILE:O	1:A:2348:VAL:HG12	1.86	0.64
1:A:2401:ILE:CG1	1:A:2402:CYS:N	2.61	0.64
1:C:270:GLN:O	1:C:272:ALA:C	2.37	0.64
1:C:1680:ARG:O	1:C:1684:THR:N	2.31	0.64
1:C:2289:LEU:N	1:C:2289:LEU:HD13	2.13	0.64
1:B:73:TRP:O	1:B:74:LYS:C	2.32	0.64
1:D:170:ARG:NH1	1:D:180:ASP:OD1	2.31	0.64
1:D:2216:CYS:SG	1:D:2646:VAL:HG13	2.35	0.64
1:A:170:ARG:NH1	1:A:180:ASP:OD1	2.31	0.64
1:A:567:TYR:CD1	2:A:2801:JYP:O8	2.51	0.64
1:A:2284:ALA:O	1:A:2287:MET:CB	2.41	0.64
1:A:2289:LEU:N	1:A:2289:LEU:HD13	2.13	0.64
1:A:2612:PHE:CD1	1:A:2638:MET:SD	2.91	0.64
1:A:2696:ARG:HH22	1:B:2696:ARG:HH22	1.46	0.64
1:C:2401:ILE:CG1	1:C:2402:CYS:N	2.61	0.64
1:C:2698:LEU:O	1:C:2698:LEU:HD23	1.97	0.64
1:B:270:GLN:O	1:B:272:ALA:C	2.37	0.64
1:B:275:ALA:CB	2:B:2801:JYP:N4	2.46	0.64
1:B:453:LEU:CA	1:B:521:LYS:HZ2	2.05	0.64
1:B:509:LEU:C	1:B:512:GLU:HB3	2.17	0.64
1:B:2058:HIS:O	1:B:2062:GLY:N	2.20	0.64
1:D:107:ASN:HA	1:D:110:LEU:HD12	1.79	0.64
1:D:2412:PHE:HA	1:D:2415:LEU:HD12	1.79	0.64
1:D:2571:LEU:O	1:D:2575:PHE:N	2.31	0.64
1:D:2698:LEU:O	1:D:2698:LEU:HD23	1.97	0.64
1:A:443:LEU:HD21	1:A:513:GLN:NE2	2.13	0.64
1:A:571:GLN:HG3	1:A:574:ILE:CD1	2.28	0.64
1:A:2428:LEU:C	1:A:2428:LEU:HD13	2.18	0.64
1:C:270:GLN:HE22	1:C:271:SER:H	1.37	0.64
1:C:2285:VAL:O	1:C:2288:ASN:N	2.31	0.64
1:C:2560:GLU:CG	1:C:2563:PHE:HE2	1.79	0.64
1:B:2239:LYS:HZ2	1:B:2677:ARG:HE	1.46	0.64
1:B:2412:PHE:HA	1:B:2415:LEU:HD12	1.79	0.64
1:B:2434:VAL:HG12	1:B:2434:VAL:O	1.97	0.64
1:D:1508:VAL:CA	1:D:1536:CYS:CA	2.76	0.64
1:D:2189:TYR:O	1:D:2192:HIS:CA	2.46	0.64
1:D:2285:VAL:O	1:D:2288:ASN:N	2.31	0.64
1:D:2626:VAL:CG1	1:D:2627:THR:N	1.88	0.64
1:D:2695:LEU:O	1:D:2698:LEU:N	2.30	0.64
1:A:107:ASN:HA	1:A:110:LEU:HD12	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:GLY:O	1:A:283:GLU:CG	2.46	0.63
1:A:441:ARG:HB2	1:A:441:ARG:NH1	2.13	0.63
1:A:1995:THR:CA	1:A:1998:ASN:O	2.46	0.63
1:A:2204:THR:H	1:A:2679:ARG:NH1	1.96	0.63
1:A:2560:GLU:C	1:A:2563:PHE:HB2	2.16	0.63
1:C:488:THR:HB	1:C:559:VAL:HG13	1.80	0.63
1:C:547:ALA:HB1	1:C:548:PRO:HD2	0.67	0.63
1:C:567:TYR:CD1	2:C:2801:JYP:O8	2.51	0.63
2:C:2801:JYP:O7	2:C:2801:JYP:O12	2.17	0.63
1:B:237:GLY:O	1:B:283:GLU:CG	2.46	0.63
1:B:443:LEU:CD2	1:B:513:GLN:NE2	2.61	0.63
1:B:816:ILE:O	1:B:878:PHE:CA	2.46	0.63
1:B:2285:VAL:O	1:B:2289:LEU:HD13	1.97	0.63
1:B:2573:PHE:O	1:B:2574:PHE:C	2.29	0.63
1:B:2695:LEU:N	1:B:2695:LEU:HD12	2.12	0.63
1:D:567:TYR:CD1	2:D:2801:JYP:O8	2.51	0.63
1:D:2032:LEU:O	1:D:2036:THR:N	2.31	0.63
1:D:2038:GLU:O	1:D:2042:GLU:N	2.30	0.63
1:D:2730:LYS:HD3	1:D:2730:LYS:C	2.18	0.63
1:C:453:LEU:CA	1:C:521:LYS:HZ3	2.11	0.63
1:C:2578:ILE:HD12	1:C:2578:ILE:O	1.97	0.63
1:C:2730:LYS:C	1:C:2730:LYS:HD3	2.18	0.63
1:B:170:ARG:NH1	1:B:180:ASP:OD1	2.31	0.63
1:B:441:ARG:HB2	1:B:441:ARG:NH1	2.13	0.63
1:B:1995:THR:CA	1:B:1998:ASN:O	2.46	0.63
1:B:2189:TYR:C	1:B:2192:HIS:H	2.00	0.63
1:B:2204:THR:H	1:B:2679:ARG:NH1	1.97	0.63
1:D:2288:ASN:ND2	1:D:2417:LEU:CB	2.51	0.63
1:D:2349:GLY:C	1:D:2351:GLN:N	2.50	0.63
1:D:2649:LYS:C	1:D:2650:VAL:CG2	2.54	0.63
1:D:2657:THR:HA	1:D:2660:GLU:HB2	1.78	0.63
1:A:453:LEU:O	1:A:521:LYS:CD	2.46	0.63
1:A:2425:GLU:C	1:A:2428:LEU:HB3	2.19	0.63
1:C:2204:THR:H	1:C:2679:ARG:NH1	1.96	0.63
1:B:269:ARG:HB3	2:B:2801:JYP:C3	2.29	0.63
1:B:2219:LEU:CD2	1:B:2254:MET:HE1	2.28	0.63
1:B:2713:SER:HA	1:B:2716:LEU:HD11	1.80	0.63
1:D:2242:ASP:HA	1:D:2245:LEU:HD12	1.79	0.63
1:D:2273:MET:CA	1:D:2276:TRP:CD1	2.71	0.63
1:D:2285:VAL:O	1:D:2289:LEU:HD13	1.97	0.63
1:D:2578:ILE:HD12	1:D:2578:ILE:O	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2573:PHE:O	1:A:2574:PHE:C	2.29	0.63
1:A:2707:LYS:CG	1:B:2706:MET:HB3	2.28	0.63
1:C:1619:VAL:C	1:C:1621:ALA:N	2.41	0.63
1:C:2285:VAL:HG23	1:C:2288:ASN:ND2	2.14	0.63
1:C:2348:VAL:HG12	1:C:2353:THR:HB	1.72	0.63
1:B:1508:VAL:CA	1:B:1536:CYS:CA	2.76	0.63
1:D:443:LEU:CD2	1:D:513:GLN:NE2	2.61	0.63
1:D:453:LEU:O	1:D:521:LYS:CD	2.46	0.63
1:D:547:ALA:HB1	1:D:548:PRO:HD2	0.67	0.63
1:D:2204:THR:H	1:D:2679:ARG:NH1	1.97	0.63
1:D:2216:CYS:HG	1:D:2646:VAL:CG2	2.07	0.63
1:D:2285:VAL:HG23	1:D:2288:ASN:ND2	2.14	0.63
1:D:2289:LEU:N	1:D:2289:LEU:HD13	2.13	0.63
1:A:92:LEU:HD22	1:A:92:LEU:N	2.07	0.63
1:A:443:LEU:CD2	1:A:513:GLN:NE2	2.61	0.63
1:A:2201:LEU:CA	1:A:2662:TYR:OH	2.46	0.63
1:A:2713:SER:HA	1:A:2716:LEU:HD11	1.80	0.63
1:C:443:LEU:HD21	1:C:513:GLN:NE2	2.13	0.63
1:C:819:TYR:H	1:C:877:GLY:CA	2.11	0.63
1:C:1508:VAL:CA	1:C:1536:CYS:CA	2.76	0.63
1:C:2189:TYR:C	1:C:2192:HIS:H	2.00	0.63
1:C:2242:ASP:HA	1:C:2245:LEU:HD12	1.79	0.63
1:C:2411:PHE:O	1:C:2413:TYR:HD2	1.82	0.63
1:B:488:THR:HB	1:B:559:VAL:HG13	1.80	0.63
1:B:819:TYR:H	1:B:877:GLY:CA	2.11	0.63
1:B:2612:PHE:CD1	1:B:2638:MET:SD	2.91	0.63
1:D:103:ASN:HA	1:D:106:GLU:CD	2.19	0.63
1:D:441:ARG:HH11	1:D:441:ARG:HG3	1.63	0.63
1:D:2035:GLN:O	1:D:2039:SER:N	2.32	0.63
1:A:2034:ASN:O	1:A:2038:GLU:N	2.30	0.63
1:A:2412:PHE:HA	1:A:2415:LEU:HD12	1.79	0.63
1:B:516:LEU:N	1:B:516:LEU:HD12	2.12	0.63
1:B:2035:GLN:O	1:B:2039:SER:N	2.32	0.63
1:B:2189:TYR:O	1:B:2192:HIS:CA	2.46	0.63
1:D:514:ASN:O	1:D:515:ILE:C	2.32	0.63
1:D:819:TYR:H	1:D:877:GLY:CA	2.11	0.63
1:D:2201:LEU:CA	1:D:2662:TYR:OH	2.46	0.63
1:C:170:ARG:NH1	1:C:180:ASP:OD1	2.31	0.63
1:C:269:ARG:HB3	2:C:2801:JYP:C3	2.29	0.63
1:C:1995:THR:CA	1:C:1998:ASN:O	2.46	0.63
1:B:92:LEU:HD22	1:B:92:LEU:N	2.07	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2411:PHE:O	1:B:2413:TYR:HD2	1.82	0.63
1:D:2649:LYS:HA	1:D:2649:LYS:HZ2	1.62	0.63
1:A:12:GLY:H	1:A:60:LEU:HB2	1.64	0.63
1:A:269:ARG:HB3	2:A:2801:JYP:C3	2.29	0.63
1:C:2281:PHE:CB	1:C:2420:LEU:HD22	2.29	0.63
1:C:2384:ARG:HB3	1:C:2387:VAL:HG12	1.79	0.63
1:C:2532:LEU:HD22	1:D:2295:TYR:CD1	2.34	0.63
1:B:103:ASN:HA	1:B:106:GLU:CD	2.19	0.63
1:B:2032:LEU:O	1:B:2036:THR:N	2.31	0.63
1:B:2372:PHE:CD2	1:B:2395:HIS:ND1	2.59	0.63
1:D:564:GLN:HB2	1:D:574:ILE:HD12	1.74	0.63
1:D:2288:ASN:O	1:D:2291:VAL:HG22	1.97	0.63
1:A:2035:GLN:O	1:A:2039:SER:N	2.32	0.63
1:A:2285:VAL:O	1:A:2288:ASN:N	2.31	0.63
1:A:2639:TRP:HA	1:A:2642:LEU:HD22	1.81	0.63
1:C:2035:GLN:O	1:C:2039:SER:N	2.32	0.63
1:C:2345:ILE:C	1:C:2348:VAL:CG1	2.57	0.63
1:B:2201:LEU:CA	1:B:2662:TYR:OH	2.46	0.63
1:B:2285:VAL:O	1:B:2288:ASN:N	2.31	0.63
1:B:2560:GLU:C	1:B:2563:PHE:HB2	2.17	0.63
1:D:968:MET:O	1:D:972:LEU:N	2.32	0.63
1:D:2401:ILE:HG13	1:D:2402:CYS:H	1.61	0.63
1:A:103:ASN:HA	1:A:106:GLU:CD	2.19	0.62
1:A:582:GLN:NE2	1:A:582:GLN:O	2.32	0.62
1:A:2348:VAL:HG11	1:A:2353:THR:HG1	1.60	0.62
1:C:2586:PHE:CG	1:B:2583:ASN:ND2	2.66	0.62
1:B:509:LEU:CA	1:B:512:GLU:HB3	2.29	0.62
1:B:567:TYR:CD1	2:B:2801:JYP:O8	2.51	0.62
1:D:582:GLN:NE2	1:D:582:GLN:O	2.32	0.62
1:D:2384:ARG:HB3	1:D:2387:VAL:HG12	1.79	0.62
1:D:2401:ILE:CG1	1:D:2402:CYS:N	2.61	0.62
1:A:275:ALA:N	2:A:2801:JYP:N4	2.47	0.62
1:A:509:LEU:CA	1:A:512:GLU:HB3	2.29	0.62
1:A:2285:VAL:HG23	1:A:2288:ASN:ND2	2.14	0.62
1:A:2447:LEU:HD13	1:B:2427:LEU:HD11	1.81	0.62
1:A:2571:LEU:O	1:A:2575:PHE:N	2.31	0.62
1:C:2348:VAL:HG21	1:C:2353:THR:HG22	1.78	0.62
1:C:2586:PHE:CD1	1:B:2583:ASN:ND2	2.67	0.62
1:B:2285:VAL:HG23	1:B:2288:ASN:ND2	2.14	0.62
1:D:269:ARG:HB3	2:D:2801:JYP:C3	2.29	0.62
1:D:270:GLN:O	1:D:272:ALA:C	2.37	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:443:LEU:HD21	1:D:513:GLN:NE2	2.13	0.62
1:D:2425:GLU:C	1:D:2428:LEU:HB3	2.19	0.62
1:A:488:THR:HB	1:A:559:VAL:HG13	1.80	0.62
1:A:516:LEU:N	1:A:516:LEU:HD12	2.12	0.62
1:A:2348:VAL:HB	1:A:2353:THR:HG22	1.81	0.62
1:A:2372:PHE:CD2	1:A:2395:HIS:ND1	2.59	0.62
1:C:275:ALA:N	2:C:2801:JYP:N4	2.47	0.62
1:C:2201:LEU:HD12	1:C:2203:ARG:HH22	1.64	0.62
1:C:2566:ARG:HH11	1:C:2566:ARG:CG	2.13	0.62
1:C:2616:LEU:HD11	1:C:2621:PHE:CE2	2.35	0.62
1:C:2713:SER:HA	1:C:2716:LEU:HD11	1.80	0.62
1:B:582:GLN:O	1:B:582:GLN:NE2	2.32	0.62
1:D:275:ALA:N	2:D:2801:JYP:N4	2.47	0.62
1:D:2423:ARG:HD2	1:D:2423:ARG:C	2.18	0.62
1:D:2560:GLU:C	1:D:2563:PHE:HB2	2.17	0.62
1:C:103:ASN:HA	1:C:106:GLU:CD	2.19	0.62
1:C:509:LEU:CA	1:C:512:GLU:HB3	2.29	0.62
1:C:520:PHE:O	1:C:520:PHE:HD1	1.83	0.62
1:C:1807:LEU:O	1:C:1811:LEU:N	2.32	0.62
1:C:2281:PHE:HB2	1:C:2420:LEU:HD13	1.81	0.62
1:C:2396:LEU:HD22	1:C:2396:LEU:C	2.20	0.62
1:B:2425:GLU:C	1:B:2428:LEU:HB3	2.19	0.62
1:B:2639:TRP:HA	1:B:2642:LEU:HD22	1.81	0.62
1:A:263:PHE:CE2	1:A:265:ARG:NE	2.58	0.62
1:A:270:GLN:O	1:A:272:ALA:C	2.37	0.62
1:A:520:PHE:HD1	1:A:520:PHE:O	1.83	0.62
1:A:819:TYR:H	1:A:877:GLY:CA	2.11	0.62
1:A:2372:PHE:CZ	1:A:2392:PHE:HB3	2.34	0.62
1:B:2201:LEU:HD12	1:B:2203:ARG:HH22	1.64	0.62
1:D:270:GLN:HE22	1:D:271:SER:H	1.37	0.62
1:D:488:THR:HB	1:D:559:VAL:HG13	1.80	0.62
1:D:2713:SER:HA	1:D:2716:LEU:HD11	1.80	0.62
1:C:441:ARG:HG3	1:C:441:ARG:HH11	1.64	0.62
1:C:582:GLN:NE2	1:C:582:GLN:O	2.32	0.62
1:B:520:PHE:O	1:B:520:PHE:HD1	1.83	0.62
1:B:569:LYS:CE	2:B:2801:JYP:C10	2.72	0.62
1:B:2034:ASN:O	1:B:2038:GLU:N	2.30	0.62
1:D:32:LEU:CB	1:D:445:PHE:CE2	2.82	0.62
1:D:1126:VAL:O	1:D:1130:GLU:N	2.27	0.62
1:D:2411:PHE:O	1:D:2413:TYR:HD2	1.82	0.62
1:D:2639:TRP:HA	1:D:2642:LEU:HD22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:453:LEU:HB3	1:A:521:LYS:HZ3	1.65	0.62
1:A:554:ARG:HH12	1:A:585:ILE:HD13	1.65	0.62
1:A:569:LYS:CE	2:A:2801:JYP:C10	2.72	0.62
1:C:2434:VAL:CG1	1:C:2589:ILE:HD12	2.30	0.62
1:B:12:GLY:H	1:B:60:LEU:HB2	1.64	0.62
1:B:441:ARG:HH11	1:B:441:ARG:HG3	1.63	0.62
1:B:2642:LEU:HD13	1:B:2642:LEU:N	2.15	0.62
1:D:2372:PHE:CZ	1:D:2392:PHE:HB3	2.34	0.62
1:D:2578:ILE:HG23	1:D:2579:ILE:HG12	1.82	0.62
1:C:2201:LEU:CA	1:C:2662:TYR:OH	2.46	0.62
1:B:447:ASN:HB3	1:B:513:GLN:HG3	1.82	0.62
1:B:547:ALA:HB1	1:B:548:PRO:HD2	0.67	0.62
1:B:2213:PRO:N	1:B:2647:LEU:HD13	2.15	0.62
1:B:2281:PHE:CB	1:B:2420:LEU:HD22	2.29	0.62
1:B:2571:LEU:O	1:B:2575:PHE:N	2.31	0.62
1:B:2616:LEU:HD11	1:B:2621:PHE:CE2	2.35	0.62
2:B:2801:JYP:O7	2:B:2801:JYP:O12	2.17	0.62
1:D:1807:LEU:O	1:D:1811:LEU:N	2.32	0.62
1:D:2213:PRO:N	1:D:2647:LEU:HD13	2.15	0.62
1:D:2649:LYS:HA	1:D:2649:LYS:HZ3	1.62	0.62
1:A:32:LEU:CB	1:A:445:PHE:CE2	2.82	0.62
1:A:453:LEU:CB	1:A:521:LYS:HZ3	2.13	0.62
1:A:525:ALA:CB	1:A:526:PRO:HD2	2.30	0.62
1:A:2201:LEU:HD12	1:A:2203:ARG:HH22	1.64	0.62
1:A:2281:PHE:HB2	1:A:2420:LEU:HD13	1.81	0.62
1:A:2616:LEU:HD11	1:A:2621:PHE:CE2	2.35	0.62
2:A:2801:JYP:O7	2:A:2801:JYP:O12	2.17	0.62
1:C:12:GLY:H	1:C:60:LEU:HB2	1.64	0.62
1:C:32:LEU:CB	1:C:445:PHE:CE2	2.82	0.62
1:C:564:GLN:NE2	1:C:578:PHE:CD2	2.64	0.62
1:C:2032:LEU:O	1:C:2036:THR:N	2.31	0.62
1:C:2103:ARG:C	1:C:2105:ASP:N	2.53	0.62
1:C:2579:ILE:O	1:C:2580:ILE:O	2.18	0.62
1:B:32:LEU:CB	1:B:445:PHE:CE2	2.82	0.62
1:B:519:ILE:HD11	1:B:560:LEU:HD22	1.82	0.62
1:B:547:ALA:HB3	1:B:548:PRO:HD2	1.68	0.62
1:B:582:GLN:CA	1:B:582:GLN:HE21	2.12	0.62
1:D:453:LEU:HB3	1:D:521:LYS:HZ3	1.65	0.62
1:D:520:PHE:HD1	1:D:520:PHE:O	1.83	0.62
1:D:2281:PHE:HB2	1:D:2420:LEU:HD13	1.81	0.62
1:D:2345:ILE:C	1:D:2348:VAL:CG1	2.57	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2357:LEU:HD13	1:D:2360:PHE:HE1	1.65	0.62
1:D:2616:LEU:HD11	1:D:2621:PHE:CE2	2.35	0.62
1:A:968:MET:O	1:A:972:LEU:N	2.32	0.62
1:C:1334:LEU:O	1:C:1337:SER:O	2.17	0.62
1:C:2423:ARG:HD2	1:C:2423:ARG:C	2.18	0.62
1:C:2642:LEU:HD13	1:C:2642:LEU:N	2.15	0.62
1:B:2357:LEU:HD13	1:B:2360:PHE:HE1	1.65	0.62
1:B:2372:PHE:CZ	1:B:2392:PHE:HB3	2.34	0.62
1:D:2103:ARG:C	1:D:2105:ASP:N	2.53	0.62
1:D:2201:LEU:HD12	1:D:2203:ARG:HH22	1.64	0.62
1:D:2288:ASN:HA	1:D:2413:TYR:CB	2.28	0.62
1:D:2396:LEU:HD22	1:D:2396:LEU:C	2.20	0.62
1:A:2695:LEU:O	1:A:2696:ARG:C	2.38	0.61
1:C:87:VAL:HG23	1:C:88:LEU:HD12	1.82	0.61
1:C:582:GLN:CA	1:C:582:GLN:HE21	2.12	0.61
1:C:2030:VAL:O	1:C:2034:ASN:N	2.32	0.61
1:C:2213:PRO:N	1:C:2647:LEU:HD13	2.15	0.61
1:C:2372:PHE:CZ	1:C:2392:PHE:HB3	2.34	0.61
1:C:2571:LEU:O	1:C:2575:PHE:N	2.31	0.61
1:C:2695:LEU:O	1:C:2698:LEU:N	2.30	0.61
1:B:453:LEU:HB3	1:B:521:LYS:HZ3	1.65	0.61
1:D:571:GLN:HG3	1:D:574:ILE:CD1	2.28	0.61
1:A:582:GLN:CA	1:A:582:GLN:HE21	2.12	0.61
1:A:2281:PHE:CB	1:A:2420:LEU:HD22	2.29	0.61
1:A:2411:PHE:O	1:A:2413:TYR:HD2	1.82	0.61
1:C:447:ASN:HB3	1:C:513:GLN:HG3	1.82	0.61
1:C:2560:GLU:C	1:C:2563:PHE:HB2	2.16	0.61
1:B:1334:LEU:O	1:B:1337:SER:O	2.18	0.61
1:D:2695:LEU:O	1:D:2696:ARG:C	2.38	0.61
1:A:87:VAL:HG23	1:A:88:LEU:HD12	1.82	0.61
1:A:165:PRO:HG2	1:A:168:LYS:HA	1.82	0.61
1:A:2195:GLN:HA	1:A:2209:VAL:HG12	1.83	0.61
1:A:2578:ILE:HG23	1:A:2579:ILE:HG12	1.82	0.61
1:C:77:LYS:HB2	1:C:78:PRO:HD2	1.82	0.61
1:C:519:ILE:HD11	1:C:560:LEU:HD22	1.82	0.61
1:C:2378:THR:HG23	1:C:2378:THR:O	2.00	0.61
1:C:2425:GLU:C	1:C:2428:LEU:HB3	2.19	0.61
1:B:275:ALA:N	2:B:2801:JYP:N4	2.47	0.61
1:B:2538:VAL:O	1:B:2542:GLY:N	2.33	0.61
1:D:1334:LEU:O	1:D:1337:SER:O	2.18	0.61
1:D:2243:PHE:HZ	1:D:2638:MET:CB	2.03	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2345:ILE:CD1	1:D:2356:LEU:HD23	2.16	0.61
1:D:2362:VAL:CG1	1:D:2363:CYS:N	2.63	0.61
1:D:2434:VAL:CG1	1:D:2589:ILE:HD12	2.30	0.61
1:A:547:ALA:HB1	1:A:548:PRO:HD2	0.67	0.61
1:A:2362:VAL:CG1	1:A:2363:CYS:N	2.63	0.61
1:A:2538:VAL:O	1:A:2542:GLY:N	2.33	0.61
1:B:554:ARG:HH12	1:B:585:ILE:HD13	1.65	0.61
1:B:774:PRO:O	1:B:778:ARG:N	2.33	0.61
1:B:2558:LYS:O	1:B:2560:GLU:HG3	2.00	0.61
1:B:2578:ILE:HG23	1:B:2579:ILE:HG12	1.82	0.61
1:B:2695:LEU:O	1:B:2696:ARG:C	2.38	0.61
1:D:88:LEU:C	1:D:92:LEU:HD11	2.01	0.61
1:D:509:LEU:CA	1:D:512:GLU:HB3	2.29	0.61
1:D:2030:VAL:O	1:D:2034:ASN:N	2.32	0.61
1:D:2195:GLN:HA	1:D:2209:VAL:HG12	1.83	0.61
2:D:2801:JYP:O7	2:D:2801:JYP:O12	2.16	0.61
1:A:2357:LEU:HD13	1:A:2360:PHE:HE1	1.65	0.61
1:C:450:SER:CA	1:C:453:LEU:HG	2.31	0.61
1:C:2021:LEU:C	1:C:2023:LEU:N	2.54	0.61
1:C:2362:VAL:CG1	1:C:2363:CYS:N	2.63	0.61
1:B:450:SER:CA	1:B:453:LEU:HG	2.31	0.61
1:B:2239:LYS:CG	1:B:2240:ILE:N	2.54	0.61
1:D:2581:VAL:HA	1:D:2584:LEU:HB2	1.82	0.61
1:D:2642:LEU:HD13	1:D:2642:LEU:N	2.15	0.61
1:A:2558:LYS:O	1:A:2560:GLU:HG3	2.00	0.61
1:A:2581:VAL:HA	1:A:2584:LEU:HB2	1.82	0.61
1:C:547:ALA:HB3	1:C:548:PRO:HD2	1.68	0.61
1:C:1126:VAL:O	1:C:1130:GLU:N	2.27	0.61
1:C:2284:ALA:O	1:C:2287:MET:CB	2.41	0.61
1:C:2288:ASN:HA	1:C:2413:TYR:CB	2.28	0.61
1:B:453:LEU:CB	1:B:521:LYS:HZ3	2.13	0.61
1:D:2036:THR:O	1:D:2040:LEU:N	2.33	0.61
1:D:2106:SER:O	1:D:2110:GLU:N	2.34	0.61
1:D:2239:LYS:HZ3	1:D:2677:ARG:CD	2.11	0.61
1:D:2538:VAL:O	1:D:2542:GLY:N	2.33	0.61
1:A:441:ARG:HH11	1:A:441:ARG:HG3	1.63	0.61
1:A:447:ASN:HB3	1:A:513:GLN:HG3	1.82	0.61
1:A:517:LYS:HA	1:A:517:LYS:HZ2	1.64	0.61
1:C:582:GLN:HE21	1:C:582:GLN:HA	1.66	0.61
1:C:2058:HIS:O	1:C:2062:GLY:N	2.20	0.61
1:C:2357:LEU:HD13	1:C:2360:PHE:HE1	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2695:LEU:O	1:C:2696:ARG:C	2.38	0.61
1:B:77:LYS:HB2	1:B:78:PRO:HD2	1.81	0.61
1:B:2289:LEU:CD1	1:B:2289:LEU:H	2.14	0.61
1:B:2566:ARG:HH11	1:B:2566:ARG:CG	2.13	0.61
1:B:2622:ASP:CG	1:B:2628:PHE:CD1	2.74	0.61
1:D:77:LYS:HB2	1:D:78:PRO:HD2	1.82	0.61
1:D:165:PRO:HG2	1:D:168:LYS:HA	1.82	0.61
1:D:2378:THR:HG23	1:D:2378:THR:O	2.00	0.61
1:A:1680:ARG:O	1:A:1684:THR:N	2.31	0.61
1:A:2103:ARG:C	1:A:2105:ASP:N	2.53	0.61
1:A:2558:LYS:HE3	1:B:2528:CYS:HA	1.82	0.61
1:C:870:ALA:O	1:C:874:ILE:N	2.34	0.61
1:C:2195:GLN:HA	1:C:2209:VAL:HG12	1.83	0.61
1:C:2639:TRP:HA	1:C:2642:LEU:HD22	1.81	0.61
1:C:2713:SER:OG	1:B:2715:GLN:NE2	2.33	0.61
1:B:2396:LEU:HD22	1:B:2396:LEU:C	2.20	0.61
1:B:2434:VAL:CG1	1:B:2589:ILE:HD12	2.30	0.61
1:B:2692:GLN:O	1:B:2692:GLN:HG2	2.00	0.61
1:D:582:GLN:HE21	1:D:582:GLN:CA	2.12	0.61
1:A:819:TYR:H	1:A:877:GLY:N	1.99	0.61
1:A:870:ALA:O	1:A:874:ILE:N	2.34	0.61
1:C:2700:GLU:OE1	1:D:2699:GLN:HG3	2.00	0.61
1:B:87:VAL:HG23	1:B:88:LEU:HD12	1.82	0.61
1:B:653:CYS:O	1:B:657:LEU:N	2.31	0.61
1:B:2195:GLN:HA	1:B:2209:VAL:HG12	1.83	0.61
1:B:2653:SER:OG	1:B:2664:ALA:CB	2.49	0.61
1:D:12:GLY:H	1:D:60:LEU:HB2	1.64	0.61
1:D:2110:GLU:O	1:D:2114:TYR:N	2.34	0.61
1:A:77:LYS:HB2	1:A:78:PRO:HD2	1.82	0.61
1:A:92:LEU:CD2	1:A:92:LEU:H	1.96	0.61
1:A:519:ILE:HD11	1:A:560:LEU:HD22	1.82	0.61
1:A:2036:THR:O	1:A:2040:LEU:N	2.33	0.61
1:A:2213:PRO:CD	1:A:2647:LEU:CG	2.79	0.61
1:A:2213:PRO:N	1:A:2647:LEU:HD13	2.15	0.61
1:A:2434:VAL:CG1	1:A:2589:ILE:HD12	2.30	0.61
1:A:2566:ARG:HH11	1:A:2566:ARG:CG	2.13	0.61
1:C:819:TYR:H	1:C:877:GLY:N	1.99	0.61
1:C:2653:SER:OG	1:C:2664:ALA:CB	2.49	0.61
1:B:525:ALA:HB3	1:B:526:PRO:CD	2.30	0.61
1:B:819:TYR:H	1:B:877:GLY:N	1.99	0.61
1:B:2281:PHE:HB2	1:B:2420:LEU:HD13	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:87:VAL:HG23	1:D:88:LEU:HD12	1.82	0.61
1:D:450:SER:CA	1:D:453:LEU:HG	2.31	0.61
1:D:453:LEU:C	1:D:521:LYS:HZ2	2.04	0.61
1:D:2566:ARG:HH11	1:D:2566:ARG:CG	2.13	0.61
1:D:2579:ILE:O	1:D:2580:ILE:O	2.18	0.61
1:A:2425:GLU:HA	1:A:2428:LEU:CB	2.31	0.60
1:C:525:ALA:HB3	1:C:526:PRO:CD	2.30	0.60
1:C:554:ARG:HH12	1:C:585:ILE:HD13	1.65	0.60
1:C:2219:LEU:CD2	1:C:2254:MET:CE	2.77	0.60
1:D:2281:PHE:CB	1:D:2420:LEU:HD22	2.29	0.60
1:D:2692:GLN:O	1:D:2692:GLN:HG2	2.01	0.60
1:A:1334:LEU:O	1:A:1337:SER:O	2.18	0.60
1:A:2106:SER:O	1:A:2110:GLU:N	2.34	0.60
1:A:2289:LEU:CD1	1:A:2289:LEU:H	2.14	0.60
1:C:2581:VAL:HA	1:C:2584:LEU:HB2	1.82	0.60
1:C:2656:TYR:O	1:C:2660:GLU:CG	2.50	0.60
1:B:968:MET:O	1:B:972:LEU:N	2.32	0.60
1:D:554:ARG:HH12	1:D:585:ILE:HD13	1.65	0.60
1:D:774:PRO:O	1:D:778:ARG:N	2.33	0.60
1:D:2021:LEU:C	1:D:2023:LEU:N	2.54	0.60
1:D:2425:GLU:HA	1:D:2428:LEU:CB	2.31	0.60
1:A:144:LYS:CB	1:B:1302:HIS:O	2.50	0.60
1:A:2396:LEU:HD22	1:A:2396:LEU:C	2.20	0.60
1:C:516:LEU:N	1:C:516:LEU:HD12	2.12	0.60
1:C:2289:LEU:CD1	1:C:2289:LEU:H	2.14	0.60
1:C:2349:GLY:C	1:C:2351:GLN:N	2.50	0.60
1:B:525:ALA:CB	1:B:526:PRO:HD2	2.30	0.60
1:B:1807:LEU:O	1:B:1811:LEU:N	2.33	0.60
1:B:2288:ASN:ND2	1:B:2417:LEU:CB	2.51	0.60
1:B:2362:VAL:CG1	1:B:2363:CYS:N	2.63	0.60
1:B:2433:SER:HA	1:B:2592:THR:CG2	2.32	0.60
1:D:870:ALA:O	1:D:874:ILE:N	2.34	0.60
1:D:2622:ASP:CG	1:D:2628:PHE:CD1	2.74	0.60
1:D:2683:LEU:HD13	1:D:2683:LEU:N	2.17	0.60
1:A:582:GLN:HE21	1:A:582:GLN:HA	1.66	0.60
1:A:2622:ASP:CG	1:A:2628:PHE:CD1	2.74	0.60
1:A:2706:MET:C	1:D:2707:LYS:HE2	2.22	0.60
1:C:270:GLN:O	1:C:272:ALA:CA	2.50	0.60
1:C:2365:LYS:HE2	1:C:2395:HIS:O	2.02	0.60
1:C:2538:VAL:O	1:C:2542:GLY:N	2.33	0.60
1:C:2578:ILE:HG23	1:C:2579:ILE:HG12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2583:ASN:HD22	1:D:2586:PHE:CA	2.14	0.60
1:C:2692:GLN:HG2	1:C:2692:GLN:O	2.01	0.60
1:B:270:GLN:O	1:B:272:ALA:CA	2.50	0.60
1:B:2103:ARG:C	1:B:2105:ASP:N	2.53	0.60
1:B:2110:GLU:O	1:B:2114:TYR:N	2.34	0.60
1:B:2713:SER:O	1:B:2716:LEU:HD21	1.95	0.60
1:D:519:ILE:HD11	1:D:560:LEU:HD22	1.82	0.60
1:A:450:SER:CA	1:A:453:LEU:HG	2.31	0.60
1:A:2378:THR:O	1:A:2378:THR:HG23	2.00	0.60
1:A:2423:ARG:HD2	1:A:2423:ARG:C	2.18	0.60
1:A:2696:ARG:CZ	1:D:2696:ARG:NH2	2.62	0.60
1:B:583:LYS:HD2	1:B:583:LYS:C	2.21	0.60
1:B:2683:LEU:HD13	1:B:2683:LEU:N	2.17	0.60
1:D:2365:LYS:HE2	1:D:2395:HIS:O	2.02	0.60
1:D:2368:PHE:HE2	1:D:2395:HIS:CB	2.10	0.60
1:D:2653:SER:OG	1:D:2664:ALA:CB	2.49	0.60
1:A:90:ASN:O	1:A:94:HIS:HB3	2.02	0.60
1:A:2401:ILE:HG21	1:A:2416:LEU:CG	2.28	0.60
1:A:2642:LEU:HD13	1:A:2642:LEU:N	2.15	0.60
1:A:2656:TYR:O	1:A:2660:GLU:CG	2.49	0.60
1:C:88:LEU:C	1:C:92:LEU:HD11	2.01	0.60
1:C:2725:GLU:OE1	1:D:2720:LYS:HD3	2.02	0.60
1:B:870:ALA:O	1:B:874:ILE:N	2.34	0.60
1:B:2365:LYS:HE2	1:B:2395:HIS:O	2.02	0.60
1:D:270:GLN:O	1:D:272:ALA:CA	2.50	0.60
1:D:442:ASP:CG	1:D:483:PHE:HE2	2.05	0.60
1:D:1291:VAL:O	1:D:1295:PHE:N	2.32	0.60
1:A:442:ASP:CG	1:A:483:PHE:HE2	2.05	0.60
1:A:514:ASN:OD1	1:A:516:LEU:HD13	1.95	0.60
1:A:2683:LEU:HD13	1:A:2683:LEU:N	2.17	0.60
1:C:571:GLN:HG3	1:C:574:ILE:CD1	2.28	0.60
1:C:2106:SER:O	1:C:2110:GLU:N	2.34	0.60
1:C:2683:LEU:HD13	1:C:2683:LEU:N	2.17	0.60
1:B:2021:LEU:C	1:B:2023:LEU:N	2.54	0.60
1:B:2656:TYR:O	1:B:2660:GLU:CG	2.49	0.60
1:D:447:ASN:HB3	1:D:513:GLN:HG3	1.82	0.60
1:D:525:ALA:HB3	1:D:526:PRO:CD	2.30	0.60
1:D:653:CYS:O	1:D:657:LEU:N	2.31	0.60
1:A:486:GLY:CA	1:A:510:MET:HE3	2.31	0.60
1:C:90:ASN:O	1:C:94:HIS:HB3	2.02	0.60
1:C:525:ALA:CB	1:C:526:PRO:HD2	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:968:MET:O	1:C:972:LEU:N	2.32	0.60
1:C:2622:ASP:OD1	1:C:2628:PHE:CG	2.55	0.60
1:D:582:GLN:HE21	1:D:582:GLN:HA	1.66	0.60
1:D:646:PRO:C	1:D:648:THR:H	1.72	0.60
1:D:2289:LEU:CD1	1:D:2289:LEU:H	2.14	0.60
1:D:2433:SER:HA	1:D:2592:THR:CG2	2.32	0.60
1:A:2110:GLU:O	1:A:2114:TYR:N	2.34	0.60
1:A:2649:LYS:C	1:A:2650:VAL:CG2	2.54	0.60
1:A:2653:SER:OG	1:A:2664:ALA:CB	2.49	0.60
1:A:2692:GLN:O	1:A:2692:GLN:HG2	2.01	0.60
1:C:774:PRO:O	1:C:778:ARG:N	2.33	0.60
1:C:2034:ASN:O	1:C:2038:GLU:N	2.30	0.60
1:B:143:GLU:HG2	1:B:145:ASN:H	1.67	0.60
1:B:2579:ILE:O	1:B:2580:ILE:O	2.18	0.60
1:D:819:TYR:H	1:D:877:GLY:N	1.99	0.60
1:D:2058:HIS:O	1:D:2062:GLY:N	2.20	0.60
1:D:2372:PHE:HE2	1:D:2391:GLU:HG3	1.65	0.60
1:A:453:LEU:C	1:A:521:LYS:NZ	2.55	0.60
1:A:2288:ASN:HA	1:A:2413:TYR:CB	2.28	0.60
1:B:554:ARG:HH11	1:B:554:ARG:CG	2.13	0.60
1:B:2425:GLU:HA	1:B:2428:LEU:CB	2.31	0.60
1:D:508:LYS:CG	1:D:570:ASN:HD21	2.14	0.60
1:D:2283:LEU:HD23	1:D:2283:LEU:C	2.22	0.60
1:D:2656:TYR:O	1:D:2660:GLU:CG	2.49	0.60
1:A:441:ARG:HH11	1:A:441:ARG:CG	2.15	0.59
1:A:2433:SER:HA	1:A:2592:THR:CG2	2.32	0.59
1:A:2579:ILE:O	1:A:2580:ILE:O	2.18	0.59
1:C:2110:GLU:O	1:C:2114:TYR:N	2.34	0.59
1:C:2372:PHE:CD2	1:C:2395:HIS:ND1	2.59	0.59
1:C:2433:SER:HA	1:C:2592:THR:CG2	2.32	0.59
1:B:453:LEU:O	1:B:521:LYS:HE3	2.02	0.59
1:B:582:GLN:HE21	1:B:582:GLN:HA	1.66	0.59
1:B:2283:LEU:HD23	1:B:2283:LEU:C	2.22	0.59
1:B:2288:ASN:HA	1:B:2413:TYR:CB	2.28	0.59
1:B:2576:MET:CE	1:B:2580:ILE:CD1	2.80	0.59
1:D:275:ALA:CB	2:D:2801:JYP:N4	2.46	0.59
1:D:453:LEU:CB	1:D:521:LYS:HZ3	2.14	0.59
1:D:509:LEU:HD22	1:D:509:LEU:C	2.23	0.59
1:D:2558:LYS:O	1:D:2560:GLU:HG3	2.00	0.59
1:A:143:GLU:HG2	1:A:145:ASN:H	1.67	0.59
1:A:508:LYS:CG	1:A:570:ASN:HD21	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:570:ASN:CB	1:A:571:GLN:OE1	2.36	0.59
1:A:2365:LYS:HE2	1:A:2395:HIS:O	2.02	0.59
1:A:2716:LEU:H	1:A:2716:LEU:CD2	1.93	0.59
1:C:441:ARG:HH11	1:C:441:ARG:CG	2.15	0.59
1:C:2528:CYS:HA	1:B:2558:LYS:HE3	1.84	0.59
1:C:2558:LYS:O	1:C:2560:GLU:HG3	2.00	0.59
1:B:2378:THR:HG23	1:B:2378:THR:O	2.00	0.59
1:A:1406:ILE:N	1:A:1445:ASN:CA	2.66	0.59
1:A:2695:LEU:C	1:A:2697:ASN:N	2.56	0.59
1:C:165:PRO:HG2	1:C:168:LYS:HA	1.82	0.59
1:C:2549:VAL:HG21	1:C:2574:PHE:HA	1.84	0.59
1:B:517:LYS:HA	1:B:517:LYS:HZ2	1.66	0.59
1:B:2289:LEU:HD13	1:B:2289:LEU:H	1.67	0.59
1:D:583:LYS:HD2	1:D:583:LYS:C	2.22	0.59
1:A:300:ASN:CG	1:D:2730:LYS:CG	2.58	0.59
1:A:509:LEU:HD22	1:A:509:LEU:C	2.23	0.59
1:A:653:CYS:O	1:A:657:LEU:N	2.31	0.59
1:A:1807:LEU:O	1:A:1811:LEU:N	2.32	0.59
1:A:2021:LEU:C	1:A:2023:LEU:N	2.54	0.59
1:A:2549:VAL:HG21	1:A:2574:PHE:HA	1.84	0.59
1:C:2277:SER:O	1:C:2281:PHE:CD2	2.54	0.59
1:C:2289:LEU:HD13	1:C:2289:LEU:H	1.67	0.59
1:C:2425:GLU:HA	1:C:2428:LEU:CB	2.31	0.59
1:C:2710:THR:CG2	1:C:2711:ASN:ND2	2.64	0.59
1:B:165:PRO:HG2	1:B:168:LYS:HA	1.82	0.59
1:B:2030:VAL:O	1:B:2034:ASN:N	2.32	0.59
1:B:2372:PHE:HE2	1:B:2391:GLU:HG3	1.65	0.59
1:D:237:GLY:C	1:D:283:GLU:OE2	2.40	0.59
1:D:453:LEU:C	1:D:521:LYS:NZ	2.56	0.59
1:D:1406:ILE:N	1:D:1445:ASN:CA	2.66	0.59
1:A:2283:LEU:HD23	1:A:2283:LEU:C	2.22	0.59
1:A:2576:MET:CE	1:A:2580:ILE:CD1	2.80	0.59
1:A:2586:PHE:CZ	1:D:2583:ASN:HB2	2.36	0.59
1:A:2622:ASP:OD1	1:A:2628:PHE:CG	2.55	0.59
1:C:32:LEU:CB	1:C:445:PHE:CZ	2.85	0.59
1:C:1406:ILE:N	1:C:1445:ASN:CA	2.66	0.59
1:C:2623:ASN:ND2	1:B:2677:ARG:NH2	2.50	0.59
1:B:2401:ILE:HG21	1:B:2416:LEU:CG	2.28	0.59
1:D:2213:PRO:CD	1:D:2647:LEU:CG	2.79	0.59
1:D:2348:VAL:HG12	1:D:2353:THR:HB	1.72	0.59
1:A:453:LEU:O	1:A:521:LYS:HE3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:774:PRO:O	1:A:778:ARG:N	2.33	0.59
1:A:2427:LEU:HD11	1:D:2447:LEU:HD13	1.83	0.59
1:C:237:GLY:C	1:C:283:GLU:OE2	2.40	0.59
1:C:453:LEU:O	1:C:521:LYS:HE3	2.02	0.59
1:C:2283:LEU:HD13	1:C:2364:ASN:ND2	2.18	0.59
1:B:453:LEU:C	1:B:521:LYS:HZ2	2.06	0.59
1:B:453:LEU:C	1:B:521:LYS:NZ	2.56	0.59
1:A:525:ALA:HB3	1:A:526:PRO:CD	2.30	0.59
1:A:2277:SER:O	1:A:2281:PHE:CD2	2.54	0.59
1:C:509:LEU:HD22	1:C:509:LEU:C	2.23	0.59
1:C:2213:PRO:CD	1:C:2647:LEU:CG	2.79	0.59
1:B:508:LYS:CG	1:B:570:ASN:HD21	2.14	0.59
1:B:2581:VAL:HA	1:B:2584:LEU:HB2	1.82	0.59
1:D:2289:LEU:HD13	1:D:2289:LEU:H	1.67	0.59
1:A:32:LEU:CB	1:A:445:PHE:CZ	2.85	0.59
1:A:74:LYS:HA	1:A:74:LYS:HZ3	1.66	0.59
1:A:288:GLN:NE2	1:A:290:ASP:O	2.36	0.59
1:C:2036:THR:O	1:C:2040:LEU:N	2.33	0.59
1:C:2283:LEU:C	1:C:2283:LEU:HD23	2.22	0.59
1:B:237:GLY:C	1:B:283:GLU:OE2	2.40	0.59
1:B:571:GLN:HG3	1:B:574:ILE:CD1	2.28	0.59
1:B:2106:SER:O	1:B:2110:GLU:N	2.34	0.59
1:B:2271:ARG:CZ	1:B:2272:ASN:HD21	2.14	0.59
1:B:2368:PHE:HZ	1:B:2395:HIS:CD2	1.95	0.59
1:B:2655:GLU:OE1	1:B:2655:GLU:N	2.18	0.59
1:D:2271:ARG:HH12	1:D:2272:ASN:ND2	1.89	0.59
1:A:237:GLY:C	1:A:283:GLU:OE2	2.40	0.59
1:A:547:ALA:HB3	1:A:548:PRO:HD2	1.68	0.59
1:A:2271:ARG:HH12	1:A:2272:ASN:ND2	1.89	0.59
1:C:453:LEU:HA	1:C:521:LYS:HZ3	1.64	0.59
1:C:508:LYS:CG	1:C:570:ASN:HD21	2.14	0.59
1:C:520:PHE:HE1	1:C:523:LEU:CD1	2.13	0.59
1:C:998:LYS:O	1:C:1002:ASP:N	2.33	0.59
1:C:1817:SER:O	1:C:1821:PHE:N	2.36	0.59
1:C:2388:LEU:HD23	1:C:2388:LEU:N	2.08	0.59
1:B:90:ASN:O	1:B:94:HIS:HB3	2.02	0.59
1:B:442:ASP:CG	1:B:483:PHE:HE2	2.05	0.59
1:B:1406:ILE:N	1:B:1445:ASN:CA	2.66	0.59
1:D:441:ARG:HH11	1:D:441:ARG:CG	2.15	0.59
1:D:2239:LYS:HZ2	1:D:2677:ARG:CD	2.13	0.59
1:D:2558:LYS:O	1:D:2560:GLU:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:520:PHE:HE1	1:A:523:LEU:CD1	2.13	0.59
1:A:2345:ILE:CG2	1:A:2353:THR:HG1	2.10	0.59
1:A:2372:PHE:HE2	1:A:2391:GLU:HG3	1.65	0.59
1:C:2626:VAL:CG1	1:C:2627:THR:N	1.88	0.59
1:C:2699:GLN:HA	1:B:2700:GLU:CD	2.23	0.59
1:B:147:MET:HB2	1:B:211:SER:HB3	1.85	0.59
1:B:998:LYS:O	1:B:1002:ASP:N	2.33	0.59
1:D:32:LEU:CB	1:D:445:PHE:CZ	2.85	0.59
1:A:2283:LEU:HD13	1:A:2364:ASN:ND2	2.18	0.58
1:C:2348:VAL:HB	1:C:2353:THR:HG22	1.81	0.58
1:B:1197:SER:O	1:B:1201:GLN:N	2.36	0.58
1:B:2283:LEU:HD13	1:B:2364:ASN:ND2	2.18	0.58
1:B:2710:THR:HG23	1:B:2711:ASN:N	2.18	0.58
1:D:103:ASN:HA	1:D:106:GLU:OE1	2.03	0.58
1:D:2549:VAL:HG21	1:D:2574:PHE:HA	1.84	0.58
1:A:1126:VAL:O	1:A:1130:GLU:N	2.27	0.58
1:A:2239:LYS:HZ2	1:A:2677:ARG:CD	2.15	0.58
1:C:2372:PHE:HE2	1:C:2391:GLU:HG3	1.65	0.58
1:C:2558:LYS:O	1:C:2560:GLU:N	2.36	0.58
1:B:1334:LEU:O	1:B:1338:GLY:CA	2.51	0.58
1:B:1810:ASP:O	1:B:1814:ASN:N	2.36	0.58
1:D:90:ASN:O	1:D:94:HIS:HB3	2.02	0.58
1:D:143:GLU:HG2	1:D:145:ASN:H	1.67	0.58
1:D:1334:LEU:O	1:D:1338:GLY:CA	2.51	0.58
1:A:305:PHE:HB2	1:A:314:LEU:HB3	1.86	0.58
1:C:1334:LEU:O	1:C:1338:GLY:CA	2.51	0.58
1:C:2576:MET:CE	1:C:2580:ILE:CD1	2.80	0.58
1:B:2243:PHE:CD1	1:B:2642:LEU:CD1	2.67	0.58
1:B:2549:VAL:HG21	1:B:2574:PHE:HA	1.84	0.58
1:D:147:MET:HB2	1:D:211:SER:HB3	1.85	0.58
1:A:147:MET:HB2	1:A:211:SER:HB3	1.85	0.58
1:A:453:LEU:C	1:A:521:LYS:HZ2	2.06	0.58
1:A:2239:LYS:CG	1:A:2240:ILE:N	2.54	0.58
1:C:2033:ILE:O	1:C:2037:LEU:N	2.31	0.58
1:B:288:GLN:NE2	1:B:290:ASP:O	2.36	0.58
1:B:2277:SER:O	1:B:2281:PHE:CD2	2.54	0.58
1:D:520:PHE:HE1	1:D:523:LEU:CD1	2.13	0.58
1:D:2034:ASN:O	1:D:2038:GLU:N	2.30	0.58
1:D:2283:LEU:HD13	1:D:2364:ASN:ND2	2.18	0.58
1:D:2576:MET:CE	1:D:2580:ILE:CD1	2.81	0.58
1:A:2549:VAL:HG23	1:A:2573:PHE:HD2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:305:PHE:HB2	1:B:314:LEU:HB3	1.86	0.58
1:B:819:TYR:N	1:B:877:GLY:HA3	2.18	0.58
1:B:1961:ALA:O	1:B:1963:ILE:N	2.37	0.58
1:B:2213:PRO:CD	1:B:2647:LEU:CG	2.79	0.58
1:B:2716:LEU:H	1:B:2716:LEU:CD2	1.93	0.58
1:D:569:LYS:CE	2:D:2801:JYP:C10	2.72	0.58
1:D:602:ASN:O	1:D:603:ARG:O	2.22	0.58
1:D:1810:ASP:O	1:D:1814:ASN:N	2.36	0.58
1:A:1197:SER:O	1:A:1201:GLN:N	2.36	0.58
1:C:1810:ASP:O	1:C:1814:ASN:N	2.36	0.58
1:B:32:LEU:CB	1:B:445:PHE:CZ	2.85	0.58
1:B:509:LEU:HD22	1:B:509:LEU:C	2.23	0.58
1:B:1113:LYS:O	1:B:1117:GLN:N	2.37	0.58
1:B:2349:GLY:C	1:B:2351:GLN:N	2.50	0.58
1:B:2368:PHE:HE2	1:B:2395:HIS:CB	2.10	0.58
1:B:2626:VAL:CG1	1:B:2627:THR:N	1.88	0.58
1:D:2365:LYS:HZ1	1:D:2395:HIS:CB	2.17	0.58
1:D:2621:PHE:HA	1:D:2624:LYS:HG2	1.86	0.58
1:A:103:ASN:HA	1:A:106:GLU:OE1	2.03	0.58
1:A:1334:LEU:O	1:A:1338:GLY:CA	2.51	0.58
1:A:2370:MET:N	1:A:2370:MET:SD	2.77	0.58
1:A:2430:VAL:HG12	1:A:2593:PHE:CE1	2.39	0.58
1:A:2621:PHE:HA	1:A:2624:LYS:HG2	1.86	0.58
1:A:2700:GLU:HG2	1:B:2702:LEU:HD11	1.71	0.58
1:C:288:GLN:NE2	1:C:290:ASP:O	2.36	0.58
1:C:569:LYS:CE	2:C:2801:JYP:C10	2.72	0.58
1:C:2621:PHE:HA	1:C:2624:LYS:HG2	1.86	0.58
1:B:103:ASN:HA	1:B:106:GLU:OE1	2.03	0.58
1:B:2213:PRO:CB	1:B:2647:LEU:HD13	2.34	0.58
1:B:2558:LYS:O	1:B:2560:GLU:N	2.36	0.58
1:B:2621:PHE:HA	1:B:2624:LYS:HG2	1.86	0.58
1:D:2288:ASN:HD21	1:D:2417:LEU:CB	1.91	0.58
1:D:2370:MET:N	1:D:2370:MET:SD	2.77	0.58
1:D:2430:VAL:HG12	1:D:2593:PHE:CE1	2.39	0.58
1:A:2058:HIS:O	1:A:2062:GLY:N	2.20	0.58
1:C:147:MET:HB2	1:C:211:SER:HB3	1.85	0.58
1:C:263:PHE:CE2	1:C:265:ARG:NE	2.58	0.58
1:C:305:PHE:HB2	1:C:314:LEU:HB3	1.86	0.58
1:C:2288:ASN:CB	1:C:2413:TYR:C	2.72	0.58
1:C:2372:PHE:HD2	1:C:2395:HIS:CE1	2.22	0.58
1:B:1817:SER:O	1:B:1821:PHE:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2033:ILE:O	1:B:2037:LEU:N	2.31	0.58
1:D:564:GLN:HB2	1:D:574:ILE:CD1	2.33	0.58
1:D:2372:PHE:HD2	1:D:2395:HIS:CE1	2.22	0.58
1:A:2213:PRO:CB	1:A:2647:LEU:HD13	2.34	0.58
1:A:2427:LEU:HD12	1:A:2430:VAL:HG23	1.85	0.58
1:C:1197:SER:O	1:C:1201:GLN:N	2.36	0.58
1:C:2433:SER:C	1:C:2434:VAL:CG2	2.72	0.58
1:B:969:ASP:O	1:B:973:LYS:N	2.36	0.58
1:B:2036:THR:O	1:B:2040:LEU:N	2.33	0.58
1:D:1197:SER:O	1:D:1201:GLN:N	2.36	0.58
1:D:2576:MET:HE2	1:D:2580:ILE:CD1	2.34	0.58
1:D:2622:ASP:OD1	1:D:2628:PHE:CG	2.55	0.58
1:C:103:ASN:HA	1:C:106:GLU:OE1	2.03	0.58
1:C:143:GLU:HG2	1:C:145:ASN:H	1.67	0.58
1:C:583:LYS:HD2	1:C:583:LYS:C	2.22	0.58
1:C:2370:MET:N	1:C:2370:MET:SD	2.77	0.58
1:A:60:LEU:HG	1:A:115:ILE:HD13	1.86	0.57
1:A:269:ARG:HD3	1:A:272:ALA:HB3	1.86	0.57
1:A:602:ASN:O	1:A:603:ARG:O	2.22	0.57
1:A:1810:ASP:O	1:A:1814:ASN:N	2.36	0.57
1:A:2290:LEU:HD13	1:A:2290:LEU:C	2.25	0.57
1:A:2558:LYS:O	1:A:2560:GLU:N	2.36	0.57
1:C:304:ARG:NH1	1:C:366:SER:OG	2.37	0.57
1:C:2213:PRO:CB	1:C:2647:LEU:HD13	2.34	0.57
1:B:441:ARG:HH11	1:B:441:ARG:CG	2.15	0.57
1:B:2433:SER:C	1:B:2434:VAL:CG2	2.72	0.57
1:D:288:GLN:NE2	1:D:290:ASP:O	2.36	0.57
1:D:2192:HIS:CG	1:D:2211:PRO:HA	2.39	0.57
1:D:2290:LEU:HD13	1:D:2290:LEU:C	2.25	0.57
1:D:2710:THR:HG23	1:D:2711:ASN:N	2.18	0.57
1:A:252:THR:N	1:A:263:PHE:O	2.36	0.57
1:A:2289:LEU:HD13	1:A:2289:LEU:H	1.67	0.57
1:C:1291:VAL:O	1:C:1295:PHE:N	2.32	0.57
1:C:2192:HIS:CG	1:C:2211:PRO:HA	2.39	0.57
1:C:2239:LYS:HZ3	1:C:2677:ARG:CD	2.08	0.57
1:B:60:LEU:HG	1:B:115:ILE:HD13	1.86	0.57
1:B:974:ILE:O	1:B:978:LEU:N	2.35	0.57
1:B:2348:VAL:HG21	1:B:2353:THR:HG22	1.78	0.57
1:B:2549:VAL:HG23	1:B:2573:PHE:HD2	1.69	0.57
1:A:270:GLN:O	1:A:272:ALA:CA	2.50	0.57
1:A:971:LYS:O	1:A:975:ILE:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2560:GLU:HG2	1:A:2563:PHE:CE2	2.16	0.57
1:A:2713:SER:O	1:A:2716:LEU:HD21	1.95	0.57
1:C:2407:PHE:N	1:C:2407:PHE:HD1	2.02	0.57
1:B:2365:LYS:HZ3	1:B:2395:HIS:HA	1.68	0.57
1:B:2695:LEU:C	1:B:2697:ASN:N	2.56	0.57
1:D:305:PHE:HB2	1:D:314:LEU:HB3	1.86	0.57
1:D:2288:ASN:CB	1:D:2413:TYR:C	2.72	0.57
1:D:2618:ARG:HD2	1:D:2628:PHE:HZ	1.69	0.57
1:A:2372:PHE:HD2	1:A:2395:HIS:CE1	2.22	0.57
1:A:2407:PHE:H	1:A:2407:PHE:HD1	1.52	0.57
1:A:2407:PHE:HD1	1:A:2407:PHE:N	2.02	0.57
1:C:2401:ILE:HD12	1:C:2401:ILE:C	2.25	0.57
1:C:2427:LEU:HD12	1:C:2430:VAL:HG23	1.85	0.57
1:C:2583:ASN:HD22	1:D:2586:PHE:CB	2.17	0.57
1:B:1291:VAL:O	1:B:1295:PHE:N	2.32	0.57
1:D:453:LEU:O	1:D:521:LYS:HE3	2.02	0.57
1:D:525:ALA:CB	1:D:526:PRO:HD2	2.30	0.57
1:D:1961:ALA:O	1:D:1963:ILE:N	2.37	0.57
1:D:2401:ILE:HG21	1:D:2416:LEU:CG	2.28	0.57
1:D:2407:PHE:N	1:D:2407:PHE:HD1	2.02	0.57
1:D:2649:LYS:C	1:D:2650:VAL:CG1	2.70	0.57
1:A:2368:PHE:HE2	1:A:2395:HIS:CB	2.10	0.57
1:A:2700:GLU:OE1	1:B:2699:GLN:CG	2.52	0.57
1:B:304:ARG:NH1	1:B:366:SER:OG	2.37	0.57
1:B:602:ASN:O	1:B:603:ARG:O	2.22	0.57
1:B:2219:LEU:CD2	1:B:2254:MET:CE	2.77	0.57
1:B:2288:ASN:CB	1:B:2413:TYR:C	2.72	0.57
1:B:2372:PHE:HD2	1:B:2395:HIS:CE1	2.22	0.57
1:B:2407:PHE:N	1:B:2407:PHE:HD1	2.02	0.57
1:B:2427:LEU:HD12	1:B:2430:VAL:HG23	1.85	0.57
1:B:2710:THR:CG2	1:B:2711:ASN:ND2	2.64	0.57
1:D:2213:PRO:CB	1:D:2647:LEU:HD13	2.34	0.57
1:D:2277:SER:O	1:D:2281:PHE:CD2	2.54	0.57
1:D:2401:ILE:C	1:D:2401:ILE:HD12	2.25	0.57
1:A:2401:ILE:C	1:A:2401:ILE:HD12	2.25	0.57
1:C:1113:LYS:O	1:C:1117:GLN:N	2.37	0.57
1:C:1619:VAL:C	1:C:1621:ALA:H	2.05	0.57
1:C:2240:ILE:O	1:C:2241:ASN:C	2.43	0.57
1:C:2290:LEU:C	1:C:2290:LEU:HD13	2.25	0.57
1:C:2558:LYS:C	1:C:2560:GLU:N	2.53	0.57
1:C:2586:PHE:CB	1:B:2583:ASN:HD22	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:269:ARG:HD3	1:B:272:ALA:HB3	1.87	0.57
1:B:1619:VAL:O	1:B:1620:GLN:C	2.43	0.57
1:B:2370:MET:N	1:B:2370:MET:SD	2.77	0.57
1:D:269:ARG:HG2	1:D:272:ALA:HB3	1.86	0.57
1:D:2433:SER:C	1:D:2592:THR:HG21	2.25	0.57
1:A:2192:HIS:CG	1:A:2211:PRO:HA	2.39	0.57
1:A:2271:ARG:CZ	1:A:2272:ASN:HD21	2.14	0.57
1:C:514:ASN:HB3	1:C:517:LYS:N	2.06	0.57
1:C:602:ASN:O	1:C:603:ARG:O	2.22	0.57
1:C:1961:ALA:O	1:C:1963:ILE:N	2.37	0.57
1:C:2430:VAL:HG12	1:C:2593:PHE:CE1	2.39	0.57
1:B:2284:ALA:O	1:B:2287:MET:CB	2.41	0.57
1:D:525:ALA:CB	1:D:526:PRO:CD	2.83	0.57
1:D:2656:TYR:O	1:D:2660:GLU:HG2	2.05	0.57
1:A:525:ALA:CB	1:A:526:PRO:CD	2.83	0.57
1:A:1113:LYS:O	1:A:1117:GLN:N	2.37	0.57
1:A:1961:ALA:O	1:A:1963:ILE:N	2.37	0.57
1:A:2219:LEU:CD2	1:A:2254:MET:CE	2.77	0.57
1:C:554:ARG:HH11	1:C:554:ARG:CG	2.12	0.57
1:B:270:GLN:HE21	1:B:271:SER:N	1.96	0.57
1:B:964:ASP:O	1:B:968:MET:N	2.36	0.57
1:B:2239:LYS:HZ3	1:B:2677:ARG:NE	2.03	0.57
1:B:2430:VAL:HG12	1:B:2593:PHE:CE1	2.39	0.57
1:D:486:GLY:CA	1:D:510:MET:HE3	2.33	0.57
1:D:974:ILE:O	1:D:978:LEU:N	2.35	0.57
1:D:1817:SER:O	1:D:1821:PHE:N	2.36	0.57
1:A:2348:VAL:CB	1:A:2353:THR:HG22	2.31	0.57
1:A:2433:SER:C	1:A:2592:THR:HG21	2.25	0.57
1:A:2618:ARG:HD2	1:A:2628:PHE:CE2	2.40	0.57
1:A:2706:MET:HB3	1:D:2707:LYS:HD3	1.87	0.57
1:A:2710:THR:HG23	1:A:2711:ASN:N	2.18	0.57
1:C:525:ALA:CB	1:C:526:PRO:CD	2.83	0.57
1:C:2243:PHE:HZ	1:C:2638:MET:CB	2.03	0.57
1:C:2281:PHE:HB2	1:C:2420:LEU:HD22	1.87	0.57
1:C:2407:PHE:H	1:C:2407:PHE:HD1	1.52	0.57
1:B:2290:LEU:HD13	1:B:2290:LEU:C	2.25	0.57
1:D:1113:LYS:O	1:D:1117:GLN:N	2.37	0.57
1:D:2549:VAL:HG23	1:D:2573:PHE:HD2	1.69	0.57
1:D:2695:LEU:C	1:D:2697:ASN:N	2.56	0.57
1:A:304:ARG:NH1	1:A:366:SER:OG	2.37	0.57
1:A:998:LYS:O	1:A:1002:ASP:N	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2725:GLU:CD	1:B:2720:LYS:HD3	2.24	0.57
1:B:269:ARG:HG2	1:B:272:ALA:HB3	1.86	0.57
1:B:564:GLN:HB2	1:B:574:ILE:CD1	2.33	0.57
1:B:2407:PHE:H	1:B:2407:PHE:HD1	1.52	0.57
1:B:2618:ARG:HD2	1:B:2628:PHE:CE2	2.40	0.57
1:D:2618:ARG:HD2	1:D:2628:PHE:CE2	2.40	0.57
1:A:564:GLN:HB2	1:A:574:ILE:CD1	2.33	0.56
1:A:876:PHE:O	1:A:880:ASN:CA	2.53	0.56
1:A:1619:VAL:O	1:A:1620:GLN:C	2.43	0.56
1:A:2591:ASP:OD1	1:B:2597:ARG:NH1	2.38	0.56
1:C:823:GLY:O	1:C:825:SER:N	2.38	0.56
1:C:2656:TYR:O	1:C:2660:GLU:HG2	2.05	0.56
1:B:2401:ILE:C	1:B:2401:ILE:HD12	2.25	0.56
1:B:2411:PHE:CD2	1:B:2411:PHE:N	2.73	0.56
1:B:2433:SER:C	1:B:2592:THR:HG21	2.25	0.56
1:D:823:GLY:O	1:D:825:SER:N	2.38	0.56
1:D:876:PHE:O	1:D:880:ASN:CA	2.53	0.56
1:D:2710:THR:CG2	1:D:2711:ASN:ND2	2.64	0.56
1:A:269:ARG:HG2	1:A:272:ALA:HB3	1.86	0.56
1:A:2273:MET:CA	1:A:2276:TRP:CD1	2.71	0.56
1:A:2288:ASN:CB	1:A:2413:TYR:C	2.72	0.56
1:A:2626:VAL:CG1	1:A:2627:THR:N	1.88	0.56
1:B:823:GLY:O	1:B:825:SER:N	2.38	0.56
1:D:2240:ILE:O	1:D:2241:ASN:C	2.43	0.56
1:D:2427:LEU:HD12	1:D:2430:VAL:HG23	1.85	0.56
1:A:583:LYS:HD2	1:A:583:LYS:C	2.21	0.56
1:A:2281:PHE:HB2	1:A:2420:LEU:HD22	1.87	0.56
1:A:2549:VAL:HG22	1:A:2574:PHE:HA	1.86	0.56
1:A:2576:MET:HE1	1:A:2580:ILE:CD1	2.34	0.56
1:C:60:LEU:HG	1:C:115:ILE:HD13	1.86	0.56
1:C:269:ARG:HD3	1:C:272:ALA:HB3	1.86	0.56
1:C:564:GLN:HB2	1:C:574:ILE:CD1	2.33	0.56
1:C:2549:VAL:HG23	1:C:2573:PHE:HD2	1.69	0.56
1:C:2583:ASN:ND2	1:D:2586:PHE:CG	2.74	0.56
1:C:2710:THR:HG23	1:C:2711:ASN:N	2.18	0.56
1:B:2192:HIS:CG	1:B:2211:PRO:HA	2.40	0.56
1:B:2273:MET:HB2	1:B:2371:SER:HG	1.64	0.56
1:B:2407:PHE:N	1:B:2407:PHE:CD1	2.72	0.56
1:B:2452:VAL:CG2	1:B:2573:PHE:CZ	2.88	0.56
1:B:2571:LEU:HD13	1:B:2572:LEU:HG	1.88	0.56
1:B:2656:TYR:O	1:B:2660:GLU:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2271:ARG:CZ	1:D:2272:ASN:HD21	2.14	0.56
1:A:447:ASN:HB3	1:A:513:GLN:CG	2.35	0.56
1:A:2103:ARG:C	1:A:2105:ASP:H	2.09	0.56
1:A:2411:PHE:N	1:A:2411:PHE:CD2	2.73	0.56
1:A:2618:ARG:HD2	1:A:2628:PHE:HZ	1.68	0.56
1:C:453:LEU:HB3	1:C:521:LYS:HZ3	1.70	0.56
1:C:876:PHE:O	1:C:880:ASN:CA	2.53	0.56
1:C:2213:PRO:HA	1:C:2647:LEU:HD13	1.88	0.56
1:C:2411:PHE:CD2	1:C:2411:PHE:N	2.73	0.56
1:C:2695:LEU:C	1:C:2697:ASN:N	2.56	0.56
1:B:2103:ARG:C	1:B:2105:ASP:H	2.09	0.56
1:D:60:LEU:HG	1:D:115:ILE:HD13	1.86	0.56
1:D:447:ASN:HB3	1:D:513:GLN:CG	2.35	0.56
1:D:819:TYR:N	1:D:877:GLY:HA3	2.18	0.56
1:D:2707:LYS:HE3	1:D:2711:ASN:OD1	2.06	0.56
1:C:252:THR:N	1:C:263:PHE:O	2.36	0.56
1:C:269:ARG:HG2	1:C:272:ALA:HB3	1.86	0.56
1:C:447:ASN:HB3	1:C:513:GLN:CG	2.35	0.56
1:C:2716:LEU:H	1:C:2716:LEU:CD2	1.93	0.56
1:B:525:ALA:CB	1:B:526:PRO:CD	2.83	0.56
1:B:876:PHE:O	1:B:880:ASN:CA	2.53	0.56
1:B:2213:PRO:HA	1:B:2647:LEU:HD13	1.88	0.56
1:D:304:ARG:NH1	1:D:366:SER:OG	2.37	0.56
1:D:1356:GLN:N	1:D:1416:ILE:O	2.38	0.56
1:D:2278:SER:O	1:D:2281:PHE:CG	2.58	0.56
1:D:2549:VAL:HG22	1:D:2574:PHE:HA	1.86	0.56
1:A:90:ASN:CA	1:A:93:HIS:CE1	2.80	0.56
1:A:2030:VAL:O	1:A:2034:ASN:N	2.32	0.56
1:A:2715:GLN:OE1	1:A:2718:GLU:CD	2.42	0.56
1:C:570:ASN:CB	1:C:571:GLN:OE1	2.36	0.56
1:C:971:LYS:O	1:C:975:ILE:N	2.38	0.56
1:C:2528:CYS:HA	1:B:2558:LYS:CE	2.36	0.56
1:B:1356:GLN:N	1:B:1416:ILE:O	2.38	0.56
1:B:1619:VAL:C	1:B:1621:ALA:H	2.05	0.56
1:D:104:GLU:O	1:D:106:GLU:N	2.33	0.56
1:D:269:ARG:HD3	1:D:272:ALA:HB3	1.87	0.56
1:D:2407:PHE:H	1:D:2407:PHE:HD1	1.52	0.56
1:D:2411:PHE:N	1:D:2411:PHE:CD2	2.73	0.56
1:A:823:GLY:O	1:A:825:SER:N	2.38	0.56
1:C:2286:LEU:HA	1:C:2289:LEU:HD11	1.88	0.56
1:C:2401:ILE:HG21	1:C:2416:LEU:CG	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2433:SER:C	1:C:2592:THR:HG21	2.25	0.56
1:B:447:ASN:HB3	1:B:513:GLN:CG	2.35	0.56
1:B:971:LYS:O	1:B:975:ILE:N	2.38	0.56
1:A:2216:CYS:HG	1:A:2646:VAL:CG2	2.17	0.56
1:A:2407:PHE:N	1:A:2407:PHE:CD1	2.72	0.56
1:A:2571:LEU:HD13	1:A:2572:LEU:HG	1.88	0.56
1:C:453:LEU:C	1:C:521:LYS:NZ	2.55	0.56
1:D:77:LYS:N	1:D:77:LYS:HD3	2.21	0.56
1:D:2372:PHE:CD2	1:D:2395:HIS:ND1	2.59	0.56
1:A:77:LYS:N	1:A:77:LYS:HD3	2.21	0.56
1:A:964:ASP:O	1:A:968:MET:N	2.36	0.56
1:A:2707:LYS:HE3	1:A:2711:ASN:OD1	2.06	0.56
1:B:2726:GLN:HA	1:B:2726:GLN:OE1	2.05	0.56
1:D:64:ASN:ND2	1:D:107:ASN:HD21	2.04	0.56
1:D:547:ALA:CB	1:D:548:PRO:CD	2.17	0.56
1:D:2286:LEU:HA	1:D:2289:LEU:HD11	1.88	0.56
1:A:819:TYR:N	1:A:877:GLY:HA3	2.18	0.56
1:A:2286:LEU:HA	1:A:2289:LEU:HD11	1.88	0.56
1:C:1030:PHE:O	1:C:1034:GLU:N	2.39	0.56
1:C:2618:ARG:HD2	1:C:2628:PHE:CE2	2.40	0.56
1:C:2696:ARG:NH2	1:D:2696:ARG:NH2	2.53	0.56
1:B:1836:ASN:O	1:B:1840:GLN:N	2.33	0.56
1:B:2281:PHE:HB2	1:B:2420:LEU:HD22	1.86	0.56
1:D:380:SER:O	1:D:380:SER:OG	2.24	0.56
1:D:2345:ILE:CD1	1:D:2353:THR:OG1	2.54	0.56
1:A:128:SER:HA	1:A:445:PHE:CZ	2.41	0.55
1:A:2239:LYS:HZ3	1:A:2677:ARG:CD	2.09	0.55
1:A:2656:TYR:O	1:A:2660:GLU:HG2	2.05	0.55
1:C:442:ASP:CG	1:C:483:PHE:HE2	2.05	0.55
1:C:516:LEU:HD13	1:C:517:LYS:HE2	1.88	0.55
1:C:2433:SER:HA	1:C:2592:THR:HG21	1.88	0.55
1:C:2571:LEU:HD13	1:C:2572:LEU:HG	1.88	0.55
1:B:64:ASN:ND2	1:B:107:ASN:HD21	2.04	0.55
1:B:128:SER:HA	1:B:445:PHE:CZ	2.41	0.55
1:B:2240:ILE:O	1:B:2241:ASN:C	2.43	0.55
1:B:2348:VAL:HB	1:B:2353:THR:HG22	1.81	0.55
1:D:128:SER:HA	1:D:445:PHE:CZ	2.41	0.55
1:D:516:LEU:HD13	1:D:517:LYS:HE2	1.88	0.55
1:D:2407:PHE:N	1:D:2407:PHE:CD1	2.72	0.55
1:D:2425:GLU:CA	1:D:2428:LEU:HB3	2.36	0.55
1:D:2726:GLN:OE1	1:D:2726:GLN:HA	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:ASN:ND2	1:A:107:ASN:HD21	2.04	0.55
1:A:508:LYS:CE	1:A:511:ARG:HH11	2.15	0.55
1:A:2433:SER:C	1:A:2434:VAL:CG2	2.72	0.55
1:C:128:SER:HA	1:C:445:PHE:CZ	2.41	0.55
1:C:819:TYR:N	1:C:877:GLY:HA3	2.18	0.55
1:B:516:LEU:HD13	1:B:517:LYS:HE2	1.88	0.55
1:B:2012:GLY:O	1:B:2013:SER:C	2.45	0.55
1:B:2345:ILE:HD12	1:B:2353:THR:OG1	2.06	0.55
1:B:2388:LEU:HD23	1:B:2388:LEU:N	2.09	0.55
1:B:2433:SER:HA	1:B:2592:THR:HG21	1.88	0.55
1:B:2727:ARG:CZ	1:B:2727:ARG:CA	2.85	0.55
1:D:2103:ARG:C	1:D:2105:ASP:H	2.09	0.55
1:D:2239:LYS:HG2	1:D:2240:ILE:CD1	2.37	0.55
1:D:2281:PHE:HB2	1:D:2420:LEU:HD22	1.87	0.55
1:A:516:LEU:HD13	1:A:517:LYS:HE2	1.88	0.55
1:A:2425:GLU:CA	1:A:2428:LEU:HB3	2.36	0.55
1:A:2706:MET:HB3	1:D:2707:LYS:CD	2.36	0.55
1:A:2726:GLN:OE1	1:A:2726:GLN:HA	2.05	0.55
1:C:64:ASN:ND2	1:C:107:ASN:HD21	2.04	0.55
1:C:2427:LEU:HD21	1:B:2447:LEU:HD12	1.87	0.55
1:B:263:PHE:CE2	1:B:265:ARG:NE	2.58	0.55
1:B:2649:LYS:HA	1:B:2649:LYS:HZ3	1.66	0.55
1:B:2649:LYS:CE	1:B:2649:LYS:CA	2.84	0.55
1:D:310:THR:HB	1:D:312:HIS:HD2	1.72	0.55
1:D:2388:LEU:HD23	1:D:2388:LEU:N	2.09	0.55
1:D:2433:SER:C	1:D:2434:VAL:CG2	2.72	0.55
1:A:2345:ILE:CG2	1:A:2348:VAL:HG11	2.37	0.55
1:A:2349:GLY:C	1:A:2351:GLN:N	2.50	0.55
1:C:2345:ILE:CD1	1:C:2353:THR:OG1	2.54	0.55
1:C:2618:ARG:HD2	1:C:2628:PHE:HZ	1.68	0.55
1:C:2632:ILE:HD12	1:C:2633:LYS:HD2	1.89	0.55
1:B:185:ASN:ND2	1:B:190:GLY:O	2.39	0.55
1:B:441:ARG:CZ	1:B:441:ARG:CB	2.85	0.55
1:B:570:ASN:CB	1:B:571:GLN:OE1	2.36	0.55
1:B:646:PRO:C	1:B:650:GLU:H	2.08	0.55
1:B:2213:PRO:CD	1:B:2647:LEU:HD13	2.37	0.55
1:A:2345:ILE:CD1	1:A:2353:THR:OG1	2.54	0.55
1:A:2348:VAL:HG21	1:A:2353:THR:HG22	1.78	0.55
1:C:128:SER:HA	1:C:445:PHE:HZ	1.72	0.55
1:C:185:ASN:ND2	1:C:190:GLY:O	2.39	0.55
1:C:517:LYS:HA	1:C:517:LYS:HZ3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2191:LYS:O	1:C:2212:VAL:HG21	2.06	0.55
1:C:2239:LYS:HG2	1:C:2240:ILE:CD1	2.36	0.55
1:C:2345:ILE:HD12	1:C:2353:THR:OG1	2.06	0.55
1:C:2549:VAL:HG22	1:C:2574:PHE:HA	1.86	0.55
1:C:2576:MET:HE2	1:C:2580:ILE:CD1	2.36	0.55
1:C:2707:LYS:HE3	1:C:2711:ASN:OD1	2.06	0.55
1:C:2727:ARG:CZ	1:C:2727:ARG:CA	2.85	0.55
1:B:2356:LEU:HD12	1:B:2356:LEU:O	2.07	0.55
1:D:971:LYS:O	1:D:975:ILE:N	2.38	0.55
1:D:2727:ARG:CZ	1:D:2727:ARG:CA	2.85	0.55
1:A:969:ASP:O	1:A:973:LYS:N	2.36	0.55
1:A:2649:LYS:CE	1:A:2649:LYS:CA	2.85	0.55
1:C:974:ILE:O	1:C:978:LEU:N	2.35	0.55
1:B:78:PRO:CA	1:B:81:ASN:O	2.54	0.55
1:B:2286:LEU:HA	1:B:2289:LEU:HD11	1.88	0.55
1:B:2345:ILE:CG2	1:B:2348:VAL:HG11	2.37	0.55
1:B:2618:ARG:CZ	1:B:2618:ARG:CB	2.85	0.55
1:B:2632:ILE:HD12	1:B:2633:LYS:HD2	1.89	0.55
1:D:128:SER:HA	1:D:445:PHE:HZ	1.72	0.55
1:D:2239:LYS:CG	1:D:2240:ILE:N	2.54	0.55
1:D:2356:LEU:HD12	1:D:2356:LEU:O	2.07	0.55
1:A:269:ARG:CB	2:A:2801:JYP:C2	2.72	0.55
1:A:646:PRO:C	1:A:650:GLU:H	2.08	0.55
1:A:2243:PHE:CD1	1:A:2642:LEU:CD1	2.67	0.55
1:A:2710:THR:CG2	1:A:2711:ASN:ND2	2.64	0.55
1:A:2727:ARG:CZ	1:A:2727:ARG:CA	2.85	0.55
1:C:457:ALA:HB2	1:C:521:LYS:CD	2.37	0.55
1:C:2356:LEU:HD12	1:C:2356:LEU:O	2.07	0.55
1:C:2452:VAL:CG2	1:C:2573:PHE:CZ	2.88	0.55
1:B:1196:LYS:O	1:B:1200:GLN:N	2.40	0.55
1:D:270:GLN:C	1:D:272:ALA:H	2.10	0.55
1:D:580:PHE:CD1	1:D:580:PHE:N	2.73	0.55
1:D:2191:LYS:O	1:D:2212:VAL:HG21	2.06	0.55
1:D:2213:PRO:HA	1:D:2647:LEU:HD13	1.88	0.55
1:A:128:SER:HA	1:A:445:PHE:HZ	1.71	0.55
1:A:1817:SER:O	1:A:1821:PHE:N	2.36	0.55
1:A:2240:ILE:O	1:A:2241:ASN:C	2.43	0.55
1:C:78:PRO:CA	1:C:81:ASN:O	2.54	0.55
1:C:517:LYS:N	1:C:517:LYS:HE2	2.22	0.55
1:C:887:LEU:O	1:C:888:THR:C	2.42	0.55
1:C:2278:SER:O	1:C:2281:PHE:CG	2.58	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2365:LYS:HZ1	1:C:2395:HIS:CB	2.20	0.55
1:C:2368:PHE:HE2	1:C:2395:HIS:CB	2.10	0.55
1:C:2726:GLN:OE1	1:C:2726:GLN:HA	2.05	0.55
1:B:450:SER:HA	1:B:453:LEU:CG	2.37	0.55
1:B:2278:SER:O	1:B:2281:PHE:CG	2.58	0.55
1:D:78:PRO:CA	1:D:81:ASN:O	2.54	0.55
1:D:2452:VAL:CG2	1:D:2573:PHE:CZ	2.88	0.55
1:D:2549:VAL:CG2	1:D:2573:PHE:CD2	2.90	0.55
1:D:2576:MET:HE2	1:D:2580:ILE:HD12	1.88	0.55
1:A:310:THR:HB	1:A:312:HIS:HD2	1.72	0.55
1:A:568:ARG:N	1:A:571:GLN:HE22	2.05	0.55
1:A:576:LYS:O	1:A:580:PHE:HE1	1.90	0.55
1:A:2239:LYS:HG2	1:A:2240:ILE:CD1	2.37	0.55
1:A:2566:ARG:CZ	1:A:2566:ARG:CB	2.85	0.55
1:C:450:SER:HA	1:C:453:LEU:CG	2.37	0.55
1:C:486:GLY:CA	1:C:510:MET:HE3	2.36	0.55
1:C:2696:ARG:CZ	1:B:2696:ARG:NH2	2.69	0.55
1:B:128:SER:HA	1:B:445:PHE:HZ	1.72	0.55
1:B:508:LYS:CE	1:B:511:ARG:HH11	2.15	0.55
1:B:2549:VAL:HG22	1:B:2574:PHE:HA	1.86	0.55
1:D:457:ALA:HB2	1:D:521:LYS:CD	2.37	0.55
1:D:2571:LEU:HD13	1:D:2572:LEU:HG	1.88	0.55
1:D:2649:LYS:CE	1:D:2649:LYS:CA	2.84	0.55
1:A:450:SER:HA	1:A:453:LEU:CG	2.37	0.55
1:A:1836:ASN:O	1:A:1840:GLN:N	2.33	0.55
1:A:2012:GLY:O	1:A:2013:SER:C	2.45	0.55
1:A:2410:GLU:HB2	1:A:2411:PHE:CD1	2.42	0.55
1:C:567:TYR:CE1	2:C:2801:JYP:O8	2.61	0.55
1:C:2649:LYS:CE	1:C:2649:LYS:CA	2.84	0.55
1:B:64:ASN:HD21	1:B:107:ASN:ND2	2.05	0.55
1:B:567:TYR:CE1	2:B:2801:JYP:O8	2.60	0.55
1:B:965:ILE:O	1:B:969:ASP:N	2.40	0.55
1:B:2707:LYS:HE3	1:B:2711:ASN:OD1	2.06	0.55
1:D:64:ASN:HD21	1:D:107:ASN:ND2	2.05	0.55
1:D:998:LYS:O	1:D:999:ARG:C	2.43	0.55
1:D:1619:VAL:C	1:D:1621:ALA:H	2.05	0.55
1:D:2243:PHE:CD1	1:D:2642:LEU:CD1	2.67	0.55
1:A:185:ASN:ND2	1:A:190:GLY:O	2.39	0.54
1:A:457:ALA:HB2	1:A:521:LYS:CD	2.37	0.54
1:A:963:GLU:O	1:A:967:VAL:N	2.37	0.54
1:C:568:ARG:N	1:C:571:GLN:HE22	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:580:PHE:CD1	1:C:580:PHE:N	2.73	0.54
1:C:750:LEU:O	1:C:754:GLU:N	2.37	0.54
1:C:2549:VAL:CG2	1:C:2573:PHE:CD2	2.90	0.54
1:B:310:THR:HB	1:B:312:HIS:HD2	1.72	0.54
1:D:450:SER:HA	1:D:453:LEU:CG	2.37	0.54
1:D:508:LYS:CE	1:D:511:ARG:HH11	2.15	0.54
1:D:568:ARG:N	1:D:571:GLN:HE22	2.05	0.54
1:D:1809:ILE:O	1:D:1813:MET:N	2.40	0.54
1:D:2012:GLY:O	1:D:2013:SER:C	2.45	0.54
1:D:2348:VAL:HB	1:D:2353:THR:HG22	1.81	0.54
1:A:2033:ILE:O	1:A:2037:LEU:N	2.31	0.54
1:A:2213:PRO:HA	1:A:2647:LEU:HD13	1.88	0.54
1:A:2632:ILE:HD12	1:A:2633:LYS:HD2	1.89	0.54
1:C:64:ASN:HD21	1:C:107:ASN:ND2	2.05	0.54
1:C:1809:ILE:O	1:C:1813:MET:N	2.40	0.54
1:C:2213:PRO:CD	1:C:2647:LEU:HD13	2.37	0.54
1:B:1030:PHE:O	1:B:1034:GLU:N	2.38	0.54
1:B:1961:ALA:C	1:B:1963:ILE:N	2.59	0.54
1:B:2618:ARG:HD2	1:B:2628:PHE:HZ	1.69	0.54
1:D:58:PHE:HB3	1:D:123:LEU:HD22	1.89	0.54
1:D:263:PHE:CE2	1:D:265:ARG:NE	2.58	0.54
1:A:2412:PHE:O	1:A:2414:SER:CA	2.55	0.54
1:A:2583:ASN:HB3	1:B:2586:PHE:HE1	1.59	0.54
1:C:77:LYS:HD3	1:C:77:LYS:N	2.21	0.54
1:C:646:PRO:C	1:C:648:THR:H	1.72	0.54
1:C:2012:GLY:O	1:C:2013:SER:C	2.45	0.54
1:C:2272:ASN:ND2	1:C:2276:TRP:HZ2	2.06	0.54
1:B:77:LYS:N	1:B:77:LYS:HD3	2.21	0.54
1:B:998:LYS:O	1:B:999:ARG:C	2.43	0.54
1:B:2191:LYS:O	1:B:2212:VAL:HG21	2.06	0.54
1:B:2239:LYS:HG2	1:B:2240:ILE:CD1	2.37	0.54
1:B:2345:ILE:CD1	1:B:2353:THR:OG1	2.54	0.54
1:B:2398:TYR:CZ	1:B:2401:ILE:HG12	2.43	0.54
1:B:2559:GLU:C	1:B:2563:PHE:CE1	2.81	0.54
1:D:567:TYR:CE1	2:D:2801:JYP:O8	2.60	0.54
1:D:969:ASP:O	1:D:973:LYS:N	2.36	0.54
1:D:2345:ILE:HD12	1:D:2353:THR:OG1	2.06	0.54
1:D:2345:ILE:CG2	1:D:2348:VAL:HG11	2.37	0.54
1:D:2410:GLU:HB2	1:D:2411:PHE:CD1	2.43	0.54
1:D:2601:GLN:O	1:D:2605:GLU:N	2.41	0.54
1:A:1809:ILE:O	1:A:1813:MET:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:964:ASP:O	1:C:968:MET:N	2.37	0.54
1:C:2239:LYS:HZ2	1:C:2677:ARG:CD	2.16	0.54
1:B:104:GLU:O	1:B:106:GLU:N	2.33	0.54
1:B:281:LEU:HD22	1:B:308:LEU:HD22	1.89	0.54
1:D:2398:TYR:CZ	1:D:2401:ILE:HG12	2.43	0.54
1:D:2632:ILE:HD12	1:D:2633:LYS:HD2	1.89	0.54
1:A:243:PHE:HA	1:A:250:PHE:HA	1.90	0.54
1:A:517:LYS:N	1:A:517:LYS:HE2	2.22	0.54
1:A:2216:CYS:HG	1:A:2646:VAL:HG21	1.72	0.54
1:A:2295:TYR:CD1	1:D:2532:LEU:HD22	2.42	0.54
1:A:2406:LEU:HD13	1:A:2407:PHE:CE1	2.43	0.54
1:A:2649:LYS:HA	1:A:2649:LYS:HZ3	1.70	0.54
1:C:653:CYS:O	1:C:657:LEU:N	2.31	0.54
1:C:998:LYS:O	1:C:999:ARG:C	2.43	0.54
1:C:2345:ILE:CD1	1:C:2356:LEU:HD23	2.16	0.54
1:C:2601:GLN:O	1:C:2605:GLU:N	2.41	0.54
1:C:2720:LYS:HD3	1:B:2725:GLU:OE1	2.07	0.54
1:B:64:ASN:HD21	1:B:107:ASN:HD21	1.55	0.54
1:B:1796:GLN:O	1:B:1800:ASP:N	2.41	0.54
1:B:2601:GLN:O	1:B:2605:GLU:N	2.41	0.54
1:B:2716:LEU:HD23	1:B:2716:LEU:N	2.04	0.54
1:D:90:ASN:CA	1:D:93:HIS:CE1	2.80	0.54
1:D:570:ASN:CB	1:D:571:GLN:OE1	2.36	0.54
1:D:2213:PRO:CD	1:D:2647:LEU:HD13	2.37	0.54
1:D:2433:SER:HA	1:D:2592:THR:HG21	1.88	0.54
1:A:19:ALA:HB3	1:A:25:GLY:H	1.73	0.54
1:A:965:ILE:O	1:A:969:ASP:N	2.40	0.54
1:A:998:LYS:O	1:A:999:ARG:C	2.43	0.54
1:C:64:ASN:HD21	1:C:107:ASN:HD21	1.55	0.54
1:C:1196:LYS:O	1:C:1200:GLN:N	2.40	0.54
1:C:2345:ILE:CG2	1:C:2348:VAL:HG11	2.37	0.54
1:C:2407:PHE:N	1:C:2407:PHE:CD1	2.72	0.54
1:C:2410:GLU:HB2	1:C:2411:PHE:CD1	2.42	0.54
1:B:576:LYS:O	1:B:580:PHE:HE1	1.90	0.54
1:B:1809:ILE:O	1:B:1813:MET:N	2.40	0.54
1:B:2549:VAL:CG2	1:B:2573:PHE:CD2	2.90	0.54
1:D:185:ASN:ND2	1:D:190:GLY:O	2.39	0.54
1:D:2272:ASN:ND2	1:D:2276:TRP:HZ2	2.06	0.54
1:A:2345:ILE:HD12	1:A:2353:THR:OG1	2.06	0.54
1:A:2566:ARG:NH1	1:A:2566:ARG:CG	2.71	0.54
1:A:2601:GLN:O	1:A:2605:GLU:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2618:ARG:CZ	1:A:2618:ARG:CB	2.85	0.54
1:C:2243:PHE:CD1	1:C:2642:LEU:CD1	2.67	0.54
1:C:2276:TRP:HE3	1:C:2367:ILE:HD13	1.73	0.54
1:B:313:TYR:N	1:B:358:VAL:O	2.41	0.54
1:B:486:GLY:CA	1:B:510:MET:CE	2.86	0.54
1:B:568:ARG:N	1:B:571:GLN:HE22	2.05	0.54
1:D:486:GLY:CA	1:D:510:MET:CE	2.86	0.54
1:A:1796:GLN:O	1:A:1800:ASP:N	2.41	0.54
1:A:2276:TRP:HE3	1:A:2367:ILE:HD13	1.73	0.54
1:A:2356:LEU:HD12	1:A:2356:LEU:O	2.07	0.54
1:A:2549:VAL:CG2	1:A:2573:PHE:CD2	2.90	0.54
1:A:2559:GLU:C	1:A:2563:PHE:CE1	2.81	0.54
1:C:73:TRP:C	1:C:75:ALA:N	2.58	0.54
1:C:281:LEU:HD22	1:C:308:LEU:HD22	1.89	0.54
1:C:380:SER:O	1:C:380:SER:OG	2.24	0.54
1:C:2528:CYS:HA	1:B:2558:LYS:NZ	2.22	0.54
1:C:2715:GLN:OE1	1:C:2718:GLU:CD	2.42	0.54
1:B:457:ALA:HB2	1:B:521:LYS:CD	2.37	0.54
1:D:576:LYS:O	1:D:580:PHE:HE1	1.90	0.54
1:D:1030:PHE:O	1:D:1034:GLU:N	2.39	0.54
1:D:1196:LYS:O	1:D:1200:GLN:N	2.40	0.54
1:D:2235:GLU:HG3	1:D:2236:GLN:HG3	1.90	0.54
1:D:2566:ARG:CZ	1:D:2566:ARG:CB	2.85	0.54
1:A:1619:VAL:C	1:A:1621:ALA:H	2.05	0.54
1:A:2356:LEU:HG	1:A:2357:LEU:HD23	1.90	0.54
1:A:2433:SER:HA	1:A:2592:THR:HG21	1.88	0.54
1:C:508:LYS:CE	1:C:511:ARG:HH11	2.15	0.54
1:C:2559:GLU:C	1:C:2563:PHE:CE1	2.81	0.54
1:C:2707:LYS:NZ	1:D:2706:MET:O	2.41	0.54
1:B:252:THR:N	1:B:263:PHE:O	2.36	0.54
1:B:2351:GLN:HG3	1:B:2355:PHE:CZ	2.43	0.54
1:D:19:ALA:HB3	1:D:25:GLY:H	1.73	0.54
1:D:281:LEU:HD22	1:D:308:LEU:HD22	1.89	0.54
1:D:1961:ALA:O	1:D:1962:VAL:O	2.26	0.54
1:A:567:TYR:CE1	2:A:2801:JYP:O8	2.60	0.54
1:A:1196:LYS:O	1:A:1200:GLN:N	2.40	0.54
1:A:2357:LEU:HA	1:A:2360:PHE:CE1	2.43	0.54
1:A:2616:LEU:HD11	1:A:2621:PHE:CD2	2.43	0.54
1:C:1356:GLN:N	1:C:1416:ILE:O	2.38	0.54
1:C:1836:ASN:O	1:C:1840:GLN:N	2.33	0.54
1:C:1961:ALA:O	1:C:1962:VAL:O	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2213:PRO:HG2	1:C:2647:LEU:N	2.22	0.54
1:C:2398:TYR:CZ	1:C:2401:ILE:HG12	2.43	0.54
1:B:76:ALA:HB3	1:B:77:LYS:HE3	1.90	0.54
1:B:646:PRO:C	1:B:648:THR:H	1.73	0.54
1:B:2216:CYS:HG	1:B:2646:VAL:CG2	2.21	0.54
1:B:2272:ASN:ND2	1:B:2276:TRP:HZ2	2.06	0.54
1:B:2276:TRP:HE3	1:B:2367:ILE:HD13	1.73	0.54
1:B:2410:GLU:HB2	1:B:2411:PHE:CD1	2.42	0.54
1:B:2425:GLU:CA	1:B:2428:LEU:HB3	2.36	0.54
1:D:441:ARG:CZ	1:D:441:ARG:CB	2.85	0.54
1:D:1209:GLY:HA3	1:D:1259:ILE:CA	2.38	0.54
1:D:1796:GLN:O	1:D:1800:ASP:N	2.41	0.54
1:D:2356:LEU:HG	1:D:2357:LEU:HD23	1.90	0.54
1:D:2406:LEU:HD13	1:D:2407:PHE:CE1	2.43	0.54
1:A:281:LEU:HD22	1:A:308:LEU:HD22	1.89	0.53
1:A:887:LEU:O	1:A:888:THR:C	2.42	0.53
1:A:2398:TYR:CZ	1:A:2401:ILE:HG12	2.43	0.53
1:A:2706:MET:O	1:D:2707:LYS:NZ	2.41	0.53
1:C:76:ALA:HB3	1:C:77:LYS:HE3	1.90	0.53
1:C:270:GLN:C	1:C:272:ALA:H	2.10	0.53
1:C:450:SER:HA	1:C:453:LEU:CD1	2.38	0.53
1:C:2356:LEU:HG	1:C:2357:LEU:HD23	1.90	0.53
1:B:517:LYS:N	1:B:517:LYS:HE2	2.22	0.53
1:D:750:LEU:O	1:D:754:GLU:N	2.37	0.53
1:D:965:ILE:O	1:D:969:ASP:N	2.40	0.53
1:D:2276:TRP:HE3	1:D:2367:ILE:HD13	1.73	0.53
1:A:64:ASN:HD21	1:A:107:ASN:ND2	2.05	0.53
1:A:486:GLY:CA	1:A:510:MET:CE	2.86	0.53
1:A:1209:GLY:HA3	1:A:1259:ILE:CA	2.38	0.53
1:C:243:PHE:HA	1:C:250:PHE:HA	1.90	0.53
1:C:646:PRO:C	1:C:650:GLU:H	2.08	0.53
1:C:969:ASP:O	1:C:973:LYS:N	2.36	0.53
1:C:2285:VAL:CG2	1:C:2417:LEU:CD1	2.61	0.53
1:C:2549:VAL:HG21	1:C:2573:PHE:CD2	2.44	0.53
1:B:58:PHE:HB3	1:B:123:LEU:HD22	1.90	0.53
1:B:1209:GLY:HA3	1:B:1259:ILE:CA	2.38	0.53
1:B:2204:THR:O	1:B:2679:ARG:NH2	2.41	0.53
1:B:2356:LEU:HG	1:B:2357:LEU:HD23	1.90	0.53
1:B:2576:MET:HE1	1:B:2580:ILE:CD1	2.37	0.53
1:D:64:ASN:HD21	1:D:107:ASN:HD21	1.55	0.53
1:A:2213:PRO:CD	1:A:2647:LEU:HD13	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2351:GLN:HG3	1:A:2355:PHE:CZ	2.43	0.53
1:C:1097:PHE:C	1:C:1099:GLN:N	2.61	0.53
1:C:2682:SER:HB2	1:C:2683:LEU:HD13	1.91	0.53
1:B:2215:ILE:O	1:B:2254:MET:HE1	2.09	0.53
1:B:2348:VAL:HG11	1:B:2353:THR:HG1	1.67	0.53
1:B:2357:LEU:HA	1:B:2360:PHE:CE1	2.43	0.53
1:D:244:HIS:NE2	1:D:427:LYS:O	2.41	0.53
1:D:450:SER:HA	1:D:453:LEU:CD1	2.38	0.53
1:D:2351:GLN:HG3	1:D:2355:PHE:CZ	2.43	0.53
1:D:2357:LEU:HA	1:D:2360:PHE:CE1	2.43	0.53
1:A:58:PHE:HB3	1:A:123:LEU:HD22	1.90	0.53
1:A:2682:SER:HB2	1:A:2683:LEU:HD13	1.91	0.53
1:A:2737:GLY:O	1:B:393:LEU:HD21	2.09	0.53
1:C:313:TYR:N	1:C:358:VAL:O	2.41	0.53
1:C:1209:GLY:HA3	1:C:1259:ILE:CA	2.38	0.53
1:C:2425:GLU:CA	1:C:2428:LEU:HB3	2.36	0.53
1:B:2566:ARG:CZ	1:B:2566:ARG:CB	2.85	0.53
1:D:270:GLN:HE21	1:D:271:SER:N	1.96	0.53
1:A:76:ALA:HB3	1:A:77:LYS:HE3	1.90	0.53
1:A:514:ASN:C	1:A:516:LEU:H	2.05	0.53
1:A:2046:GLY:O	1:A:2047:PRO:C	2.46	0.53
1:A:2272:ASN:ND2	1:A:2276:TRP:HZ2	2.06	0.53
1:A:2624:LYS:NZ	1:A:2624:LYS:CB	2.72	0.53
1:C:576:LYS:O	1:C:580:PHE:HE1	1.90	0.53
1:C:1116:LYS:O	1:C:1117:GLN:C	2.47	0.53
1:C:1796:GLN:O	1:C:1800:ASP:N	2.41	0.53
1:C:2243:PHE:HE2	1:C:2638:MET:HB3	1.50	0.53
1:B:520:PHE:HE1	1:B:523:LEU:CD1	2.13	0.53
1:B:887:LEU:O	1:B:888:THR:C	2.42	0.53
1:B:2235:GLU:HG3	1:B:2236:GLN:HG3	1.90	0.53
1:B:2406:LEU:HD13	1:B:2407:PHE:CE1	2.43	0.53
1:D:74:LYS:CE	1:D:74:LYS:CA	2.85	0.53
1:D:269:ARG:CB	2:D:2801:JYP:C2	2.72	0.53
1:D:517:LYS:N	1:D:517:LYS:HE2	2.22	0.53
1:D:2549:VAL:HG21	1:D:2573:PHE:CD2	2.44	0.53
1:D:2559:GLU:C	1:D:2563:PHE:CE1	2.81	0.53
1:D:2618:ARG:CZ	1:D:2618:ARG:CB	2.85	0.53
1:D:2642:LEU:CD1	1:D:2642:LEU:N	2.72	0.53
1:A:161:PHE:HB3	1:A:184:LEU:HD22	1.91	0.53
1:A:313:TYR:N	1:A:358:VAL:O	2.41	0.53
1:A:2191:LYS:O	1:A:2212:VAL:HG21	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2278:SER:O	1:A:2281:PHE:CG	2.58	0.53
1:C:965:ILE:O	1:C:969:ASP:N	2.40	0.53
1:B:2612:PHE:CZ	1:B:2638:MET:CE	2.91	0.53
1:B:2616:LEU:HD11	1:B:2621:PHE:CD2	2.44	0.53
1:D:73:TRP:C	1:D:75:ALA:N	2.58	0.53
1:D:252:THR:N	1:D:263:PHE:O	2.36	0.53
1:D:646:PRO:C	1:D:650:GLU:H	2.08	0.53
1:A:8:PHE:HB2	1:A:178:ILE:HD11	1.91	0.53
1:A:64:ASN:HD21	1:A:107:ASN:HD21	1.55	0.53
1:A:78:PRO:CA	1:A:81:ASN:O	2.54	0.53
1:A:269:ARG:HB3	2:A:2801:JYP:C2	2.28	0.53
1:A:2625:THR:HG23	1:A:2626:VAL:HG23	1.90	0.53
1:C:104:GLU:O	1:C:106:GLU:N	2.33	0.53
1:C:517:LYS:HA	1:C:517:LYS:HZ2	1.70	0.53
1:C:2103:ARG:O	1:C:2105:ASP:N	2.39	0.53
1:C:2204:THR:O	1:C:2679:ARG:NH2	2.41	0.53
1:B:19:ALA:HB3	1:B:25:GLY:H	1.73	0.53
1:B:161:PHE:HB3	1:B:184:LEU:HD22	1.91	0.53
1:B:447:ASN:HB2	1:B:513:GLN:OE1	2.09	0.53
1:B:1795:VAL:O	1:B:1799:LEU:N	2.39	0.53
1:B:1961:ALA:O	1:B:1962:VAL:O	2.26	0.53
1:D:239:VAL:HG12	1:D:283:GLU:HB2	1.91	0.53
1:A:974:ILE:O	1:A:978:LEU:N	2.35	0.53
1:A:1961:ALA:C	1:A:1963:ILE:N	2.59	0.53
1:A:2586:PHE:CA	1:D:2583:ASN:HD22	2.20	0.53
1:A:2707:LYS:NZ	1:B:2706:MET:O	2.42	0.53
1:C:310:THR:HB	1:C:312:HIS:HD2	1.72	0.53
1:C:2625:THR:HG23	1:C:2626:VAL:HG23	1.90	0.53
1:B:85:ASP:HA	1:B:89:LEU:HD12	1.91	0.53
1:B:2243:PHE:HZ	1:B:2638:MET:CB	2.03	0.53
1:B:2625:THR:HG23	1:B:2626:VAL:HG23	1.90	0.53
1:D:76:ALA:HB3	1:D:77:LYS:HE3	1.90	0.53
1:D:1116:LYS:O	1:D:1117:GLN:C	2.47	0.53
1:D:2616:LEU:HD11	1:D:2621:PHE:CD2	2.43	0.53
1:D:2682:SER:HB2	1:D:2683:LEU:HD13	1.91	0.53
1:D:2715:GLN:OE1	1:D:2718:GLU:CD	2.42	0.53
1:A:2365:LYS:HG2	1:A:2399:LEU:HA	1.91	0.53
1:A:2549:VAL:HG21	1:A:2573:PHE:CD2	2.44	0.53
1:C:447:ASN:HB2	1:C:513:GLN:OE1	2.09	0.53
1:C:486:GLY:CA	1:C:510:MET:CE	2.86	0.53
1:C:1619:VAL:O	1:C:1620:GLN:C	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2406:LEU:HD13	1:C:2407:PHE:CE1	2.43	0.53
1:B:243:PHE:HA	1:B:250:PHE:HA	1.90	0.53
1:B:244:HIS:NE2	1:B:427:LYS:O	2.41	0.53
1:B:2365:LYS:HG2	1:B:2399:LEU:HA	1.91	0.53
1:B:2411:PHE:O	1:B:2413:TYR:CD2	2.62	0.53
1:B:2642:LEU:CD1	1:B:2642:LEU:N	2.72	0.53
1:B:2682:SER:HB2	1:B:2683:LEU:HD13	1.91	0.53
1:B:2707:LYS:CD	1:B:2711:ASN:HD21	2.19	0.53
1:D:249:LYS:CB	1:D:264:LEU:HD13	2.39	0.53
1:A:1961:ALA:O	1:A:1962:VAL:O	2.26	0.53
1:A:2204:THR:O	1:A:2679:ARG:NH2	2.41	0.53
1:A:2558:LYS:C	1:A:2560:GLU:N	2.53	0.53
1:C:117:TYR:HB2	1:C:173:GLY:H	1.74	0.53
1:C:2250:LEU:HD13	1:C:2250:LEU:C	2.28	0.53
1:C:2351:GLN:HG3	1:C:2355:PHE:CZ	2.43	0.53
1:B:2281:PHE:HB3	1:B:2420:LEU:HD22	1.91	0.53
1:A:2235:GLU:HG3	1:A:2236:GLN:HG3	1.90	0.52
1:A:2289:LEU:N	1:A:2289:LEU:CD1	2.72	0.52
1:A:2351:GLN:N	1:A:2352:PRO:CD	2.72	0.52
1:A:2583:ASN:ND2	1:B:2586:PHE:CD1	2.78	0.52
1:C:191:GLN:O	1:C:211:SER:OG	2.27	0.52
1:C:244:HIS:NE2	1:C:427:LYS:O	2.41	0.52
1:C:568:ARG:CA	1:C:571:GLN:HE22	2.23	0.52
1:C:2192:HIS:NE2	1:C:2210:PHE:O	2.42	0.52
1:B:74:LYS:CE	1:B:74:LYS:CA	2.85	0.52
1:B:117:TYR:HB2	1:B:173:GLY:H	1.74	0.52
1:B:1126:VAL:O	1:B:1130:GLU:N	2.27	0.52
1:B:2046:GLY:O	1:B:2047:PRO:C	2.46	0.52
1:B:2549:VAL:HG21	1:B:2573:PHE:CD2	2.44	0.52
1:D:514:ASN:C	1:D:516:LEU:H	2.05	0.52
1:D:2192:HIS:NE2	1:D:2210:PHE:O	2.42	0.52
1:D:2213:PRO:CG	1:D:2647:LEU:CG	2.70	0.52
1:A:23:THR:HG21	1:A:207:ASN:HD22	1.74	0.52
1:A:73:TRP:C	1:A:75:ALA:N	2.58	0.52
1:A:191:GLN:O	1:A:211:SER:OG	2.27	0.52
1:A:582:GLN:NE2	1:A:582:GLN:CA	2.72	0.52
1:C:161:PHE:HB3	1:C:184:LEU:HD22	1.91	0.52
1:C:449:ALA:C	1:C:453:LEU:CG	2.59	0.52
1:C:2357:LEU:HA	1:C:2360:PHE:CE1	2.43	0.52
1:C:2388:LEU:CD2	1:C:2388:LEU:H	1.93	0.52
1:C:2576:MET:HE2	1:C:2580:ILE:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2616:LEU:HD11	1:C:2621:PHE:CD2	2.43	0.52
1:C:2618:ARG:CZ	1:C:2618:ARG:CB	2.85	0.52
1:B:90:ASN:CA	1:B:93:HIS:CE1	2.80	0.52
1:B:514:ASN:CB	1:B:517:LYS:H	2.21	0.52
1:B:750:LEU:O	1:B:754:GLU:N	2.37	0.52
1:D:23:THR:HG21	1:D:207:ASN:HD22	1.74	0.52
1:D:313:TYR:N	1:D:358:VAL:O	2.41	0.52
1:D:2204:THR:O	1:D:2679:ARG:NH2	2.41	0.52
1:D:2287:MET:O	1:D:2290:LEU:HB2	2.08	0.52
1:D:2624:LYS:NZ	1:D:2624:LYS:CB	2.72	0.52
1:A:2573:PHE:CD1	1:A:2577:VAL:CG2	2.93	0.52
1:C:88:LEU:CA	1:C:92:LEU:HD11	2.39	0.52
1:C:2281:PHE:HB3	1:C:2420:LEU:HD22	1.91	0.52
1:C:2612:PHE:CZ	1:C:2638:MET:CE	2.91	0.52
1:C:2624:LYS:NZ	1:C:2624:LYS:CB	2.72	0.52
1:C:2642:LEU:CD1	1:C:2642:LEU:N	2.72	0.52
1:B:8:PHE:HB2	1:B:178:ILE:HD11	1.91	0.52
1:D:38:VAL:HB	1:D:206:CYS:HB3	1.92	0.52
1:D:554:ARG:HH11	1:D:554:ARG:CG	2.12	0.52
1:D:2411:PHE:O	1:D:2413:TYR:CD2	2.62	0.52
1:A:2713:SER:HB3	1:D:2715:GLN:NE2	2.11	0.52
1:C:19:ALA:HB3	1:C:25:GLY:H	1.73	0.52
1:C:2360:PHE:O	1:C:2364:ASN:N	2.38	0.52
1:B:438:ALA:HA	1:B:441:ARG:HH22	1.75	0.52
1:D:161:PHE:HB3	1:D:184:LEU:HD22	1.91	0.52
1:D:191:GLN:O	1:D:211:SER:OG	2.28	0.52
1:D:447:ASN:HB2	1:D:513:GLN:OE1	2.09	0.52
1:D:510:MET:C	1:D:515:ILE:HG21	2.28	0.52
1:D:2625:THR:HG23	1:D:2626:VAL:HG23	1.90	0.52
1:A:1356:GLN:N	1:A:1416:ILE:O	2.38	0.52
1:A:2184:GLU:N	1:A:2184:GLU:OE1	2.43	0.52
1:A:2192:HIS:NE2	1:A:2210:PHE:O	2.42	0.52
1:A:2612:PHE:CZ	1:A:2638:MET:CE	2.91	0.52
1:C:58:PHE:HB3	1:C:123:LEU:HD22	1.90	0.52
1:C:441:ARG:CZ	1:C:441:ARG:CB	2.85	0.52
1:C:1795:VAL:O	1:C:1799:LEU:N	2.39	0.52
1:C:2235:GLU:HG3	1:C:2236:GLN:HG3	1.90	0.52
1:C:2271:ARG:CZ	1:C:2272:ASN:HD21	2.14	0.52
1:C:2411:PHE:O	1:C:2413:TYR:CD2	2.62	0.52
1:C:2566:ARG:NH1	1:C:2566:ARG:CG	2.71	0.52
1:C:2707:LYS:CD	1:C:2711:ASN:HD21	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1456:VAL:C	1:B:1507:PRO:O	2.47	0.52
1:B:2213:PRO:HG2	1:B:2647:LEU:N	2.22	0.52
1:B:2389:ASP:HA	1:B:2392:PHE:CE1	2.44	0.52
1:A:571:GLN:HB3	1:A:574:ILE:CD1	2.38	0.52
1:A:2388:LEU:HD23	1:A:2388:LEU:N	2.09	0.52
1:C:23:THR:HG21	1:C:207:ASN:HD22	1.74	0.52
1:C:249:LYS:CB	1:C:264:LEU:HD13	2.39	0.52
1:C:2566:ARG:NH1	1:C:2566:ARG:CB	2.73	0.52
1:C:2571:LEU:C	1:C:2571:LEU:HD22	2.30	0.52
1:B:2192:HIS:NE2	1:B:2210:PHE:O	2.42	0.52
1:B:2239:LYS:HZ2	1:B:2677:ARG:CD	2.21	0.52
1:B:2365:LYS:HZ1	1:B:2368:PHE:HD2	1.48	0.52
1:B:2622:ASP:OD1	1:B:2628:PHE:CG	2.55	0.52
1:D:1097:PHE:C	1:D:1099:GLN:N	2.61	0.52
1:D:2425:GLU:O	1:D:2429:ASN:N	2.43	0.52
1:D:2571:LEU:HD22	1:D:2571:LEU:C	2.30	0.52
1:A:2186:LEU:HD23	1:A:2189:TYR:CD2	2.45	0.52
1:A:2365:LYS:HZ1	1:A:2395:HIS:CB	2.21	0.52
1:C:507:GLN:CG	1:C:567:TYR:CE1	2.76	0.52
1:C:1456:VAL:C	1:C:1507:PRO:O	2.47	0.52
1:C:2186:LEU:HD23	1:C:2189:TYR:CD2	2.45	0.52
1:C:2389:ASP:HA	1:C:2392:PHE:CE1	2.44	0.52
1:C:2706:MET:O	1:B:2707:LYS:CE	2.57	0.52
1:B:569:LYS:HB2	2:B:2801:JYP:O14	2.10	0.52
1:B:2186:LEU:HD23	1:B:2189:TYR:CD2	2.45	0.52
1:D:8:PHE:HB2	1:D:178:ILE:HD11	1.91	0.52
1:D:77:LYS:N	1:D:77:LYS:CD	2.72	0.52
1:D:509:LEU:HA	1:D:512:GLU:CB	2.39	0.52
1:D:2186:LEU:HD23	1:D:2189:TYR:CD2	2.45	0.52
1:D:2350:LEU:CD2	1:D:2350:LEU:N	2.73	0.52
1:D:2412:PHE:O	1:D:2414:SER:CA	2.56	0.52
1:D:2575:PHE:CD1	1:D:2575:PHE:C	2.83	0.52
1:A:85:ASP:HA	1:A:89:LEU:HD12	1.91	0.52
1:A:239:VAL:HG12	1:A:283:GLU:HB2	1.91	0.52
1:A:2213:PRO:HG2	1:A:2647:LEU:N	2.22	0.52
1:C:453:LEU:CB	1:C:521:LYS:HZ3	2.23	0.52
1:C:569:LYS:HB2	2:C:2801:JYP:O14	2.10	0.52
1:C:2365:LYS:HG2	1:C:2399:LEU:HA	1.91	0.52
1:B:2360:PHE:O	1:B:2364:ASN:CG	2.49	0.52
1:B:2736:LEU:HD23	1:B:2736:LEU:C	2.30	0.52
1:D:88:LEU:CA	1:D:92:LEU:HD11	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:LYS:CB	1:A:264:LEU:HD13	2.39	0.52
1:A:568:ARG:CA	1:A:571:GLN:HE22	2.23	0.52
1:A:1116:LYS:O	1:A:1117:GLN:C	2.47	0.52
1:A:2281:PHE:HB3	1:A:2420:LEU:HD22	1.91	0.52
1:A:2642:LEU:CD1	1:A:2642:LEU:N	2.72	0.52
1:B:191:GLN:O	1:B:211:SER:OG	2.27	0.52
1:B:450:SER:N	1:B:453:LEU:HG	2.24	0.52
1:B:568:ARG:CA	1:B:571:GLN:HE22	2.23	0.52
1:B:582:GLN:NE2	1:B:582:GLN:CA	2.72	0.52
1:B:1116:LYS:O	1:B:1117:GLN:C	2.47	0.52
1:B:2571:LEU:C	1:B:2571:LEU:HD22	2.30	0.52
1:D:2365:LYS:HG2	1:D:2399:LEU:HA	1.91	0.52
1:A:88:LEU:CA	1:A:92:LEU:HD11	2.39	0.52
1:A:199:GLN:NE2	1:A:203:ASN:O	2.43	0.52
1:A:514:ASN:CB	1:A:517:LYS:H	2.21	0.52
1:A:2365:LYS:HZ3	1:A:2395:HIS:HA	1.74	0.52
1:A:2411:PHE:O	1:A:2413:TYR:CD2	2.62	0.52
1:C:8:PHE:HB2	1:C:178:ILE:HD11	1.91	0.52
1:C:239:VAL:HG12	1:C:283:GLU:HB2	1.91	0.52
1:B:2345:ILE:CG2	1:B:2348:VAL:CG1	2.88	0.52
1:B:2412:PHE:O	1:B:2414:SER:CA	2.56	0.52
1:B:2566:ARG:NH1	1:B:2566:ARG:CB	2.73	0.52
1:D:243:PHE:HA	1:D:250:PHE:HA	1.90	0.52
1:D:887:LEU:O	1:D:888:THR:C	2.42	0.52
1:D:2184:GLU:N	1:D:2184:GLU:OE1	2.43	0.52
1:D:2213:PRO:HG2	1:D:2647:LEU:N	2.22	0.52
1:D:2389:ASP:HA	1:D:2392:PHE:CE1	2.44	0.52
1:D:2612:PHE:CZ	1:D:2638:MET:CE	2.91	0.52
1:A:77:LYS:N	1:A:77:LYS:CD	2.72	0.51
1:A:116:GLN:HA	1:A:175:SER:HA	1.92	0.51
1:A:1030:PHE:O	1:A:1034:GLU:N	2.39	0.51
1:A:1795:VAL:O	1:A:1799:LEU:N	2.39	0.51
1:A:2425:GLU:O	1:A:2429:ASN:N	2.43	0.51
1:A:2452:VAL:CG2	1:A:2573:PHE:CZ	2.88	0.51
1:A:2715:GLN:CD	1:B:2713:SER:HB3	2.30	0.51
1:C:77:LYS:N	1:C:77:LYS:CD	2.72	0.51
1:C:2436:ARG:NH2	1:C:2595:ASP:OD2	2.43	0.51
1:B:77:LYS:N	1:B:77:LYS:CD	2.72	0.51
1:B:88:LEU:CA	1:B:92:LEU:HD11	2.39	0.51
1:B:249:LYS:CB	1:B:264:LEU:HD13	2.39	0.51
1:B:2289:LEU:N	1:B:2289:LEU:CD1	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2436:ARG:NH2	1:B:2595:ASP:OD2	2.43	0.51
2:B:2801:JYP:O16	2:B:2801:JYP:C11	2.59	0.51
1:D:62:PRO:HB2	1:D:107:ASN:OD1	2.10	0.51
1:D:117:TYR:HB2	1:D:173:GLY:H	1.74	0.51
1:D:1813:MET:CA	1:D:1853:SER:CA	2.89	0.51
1:D:2281:PHE:HB3	1:D:2420:LEU:HD22	1.91	0.51
1:D:2345:ILE:CG2	1:D:2348:VAL:CG1	2.88	0.51
1:A:104:GLU:O	1:A:106:GLU:N	2.33	0.51
1:A:117:TYR:HB2	1:A:173:GLY:H	1.74	0.51
1:A:450:SER:HA	1:A:453:LEU:CD1	2.38	0.51
1:A:2389:ASP:HA	1:A:2392:PHE:CE1	2.44	0.51
1:A:2736:LEU:HD23	1:A:2736:LEU:C	2.30	0.51
1:C:88:LEU:CD1	1:C:88:LEU:N	2.72	0.51
1:C:438:ALA:HA	1:C:441:ARG:HH22	1.75	0.51
1:B:73:TRP:C	1:B:75:ALA:N	2.58	0.51
1:B:509:LEU:HA	1:B:512:GLU:CB	2.39	0.51
1:B:2285:VAL:CG2	1:B:2417:LEU:CD1	2.61	0.51
1:B:2576:MET:HE2	1:B:2580:ILE:CD1	2.41	0.51
1:D:514:ASN:C	1:D:517:LYS:H	2.14	0.51
1:D:569:LYS:HB2	2:D:2801:JYP:O14	2.10	0.51
1:D:998:LYS:O	1:D:1002:ASP:N	2.33	0.51
1:D:1795:VAL:O	1:D:1799:LEU:N	2.39	0.51
1:D:2250:LEU:HD13	1:D:2250:LEU:C	2.28	0.51
1:D:2360:PHE:O	1:D:2364:ASN:CG	2.48	0.51
1:D:2436:ARG:NH2	1:D:2595:ASP:OD2	2.43	0.51
1:D:2736:LEU:HD23	1:D:2736:LEU:C	2.30	0.51
1:A:62:PRO:HB2	1:A:107:ASN:OD1	2.10	0.51
1:C:514:ASN:C	1:C:517:LYS:H	2.14	0.51
1:C:2184:GLU:OE1	1:C:2184:GLU:N	2.43	0.51
1:C:2425:GLU:O	1:C:2429:ASN:N	2.43	0.51
1:B:449:ALA:C	1:B:453:LEU:CG	2.58	0.51
1:B:2184:GLU:OE1	1:B:2184:GLU:N	2.43	0.51
1:D:964:ASP:O	1:D:968:MET:N	2.36	0.51
1:A:38:VAL:HB	1:A:206:CYS:HB3	1.92	0.51
1:A:517:LYS:HA	1:A:517:LYS:HZ3	1.76	0.51
1:A:554:ARG:HH11	1:A:554:ARG:CG	2.12	0.51
1:A:1813:MET:CA	1:A:1853:SER:CA	2.89	0.51
1:A:2695:LEU:N	1:A:2695:LEU:CD1	2.74	0.51
1:C:38:VAL:HB	1:C:206:CYS:HB3	1.92	0.51
1:C:164:GLN:O	1:C:183:VAL:N	2.44	0.51
1:C:269:ARG:HB3	2:C:2801:JYP:C2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2350:LEU:N	1:C:2350:LEU:CD2	2.73	0.51
1:B:23:THR:HG21	1:B:207:ASN:HD22	1.74	0.51
1:B:963:GLU:O	1:B:967:VAL:N	2.37	0.51
1:D:116:GLN:HA	1:D:175:SER:HA	1.92	0.51
1:D:2573:PHE:CD1	1:D:2577:VAL:CG2	2.92	0.51
1:A:199:GLN:NE2	1:A:200:LEU:O	2.44	0.51
1:C:85:ASP:HA	1:C:89:LEU:HD12	1.91	0.51
1:C:2699:GLN:HB3	1:D:2699:GLN:OE1	2.08	0.51
2:C:2801:JYP:O16	2:C:2801:JYP:C11	2.59	0.51
1:B:199:GLN:NE2	1:B:200:LEU:O	2.44	0.51
1:B:199:GLN:NE2	1:B:203:ASN:O	2.43	0.51
1:B:450:SER:HA	1:B:453:LEU:CD1	2.38	0.51
1:B:2573:PHE:CD1	1:B:2577:VAL:CG2	2.92	0.51
1:D:582:GLN:NE2	1:D:582:GLN:CA	2.72	0.51
1:D:2391:GLU:OE1	1:D:2391:GLU:HA	2.11	0.51
1:D:2566:ARG:NH1	1:D:2566:ARG:CG	2.71	0.51
1:A:164:GLN:O	1:A:183:VAL:N	2.44	0.51
1:A:438:ALA:HA	1:A:441:ARG:HH22	1.75	0.51
1:A:1317:LYS:CA	1:A:1385:CYS:O	2.59	0.51
1:A:2360:PHE:O	1:A:2364:ASN:CG	2.48	0.51
1:A:2571:LEU:HD22	1:A:2571:LEU:C	2.30	0.51
1:C:2391:GLU:HA	1:C:2391:GLU:OE1	2.11	0.51
1:C:2736:LEU:HD23	1:C:2736:LEU:C	2.30	0.51
1:B:116:GLN:HA	1:B:175:SER:HA	1.92	0.51
1:B:517:LYS:HA	1:B:517:LYS:HZ3	1.74	0.51
1:B:1797:CYS:O	1:B:1801:LYS:N	2.39	0.51
1:D:568:ARG:CA	1:D:571:GLN:HE22	2.23	0.51
1:A:88:LEU:CD1	1:A:88:LEU:N	2.72	0.51
1:C:104:GLU:C	1:C:106:GLU:N	2.64	0.51
1:C:116:GLN:HA	1:C:175:SER:HA	1.92	0.51
1:C:1813:MET:CA	1:C:1853:SER:CA	2.89	0.51
1:C:2351:GLN:N	1:C:2352:PRO:CD	2.72	0.51
1:C:2707:LYS:CG	1:D:2706:MET:HB3	2.40	0.51
1:B:164:GLN:O	1:B:183:VAL:N	2.44	0.51
1:B:269:ARG:HB3	2:B:2801:JYP:C2	2.28	0.51
1:B:514:ASN:C	1:B:517:LYS:H	2.14	0.51
1:B:2391:GLU:OE1	1:B:2391:GLU:HA	2.11	0.51
1:D:85:ASP:HA	1:D:89:LEU:HD12	1.91	0.51
1:D:452:VAL:O	1:D:453:LEU:C	2.49	0.51
1:D:2566:ARG:NH1	1:D:2566:ARG:CB	2.73	0.51
1:D:2716:LEU:HD23	1:D:2716:LEU:N	2.04	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:447:ASN:HB2	1:A:513:GLN:OE1	2.09	0.51
1:A:507:GLN:CG	1:A:567:TYR:CE1	2.76	0.51
1:A:569:LYS:HB2	2:A:2801:JYP:O14	2.10	0.51
1:A:2350:LEU:N	1:A:2350:LEU:CD2	2.73	0.51
1:A:2436:ARG:NH2	1:A:2595:ASP:OD2	2.43	0.51
1:A:2586:PHE:CB	1:D:2583:ASN:HD22	2.24	0.51
1:A:2707:LYS:CD	1:B:2706:MET:HB3	2.41	0.51
1:C:1797:CYS:O	1:C:1801:LYS:N	2.39	0.51
1:C:2348:VAL:CB	1:C:2353:THR:HG22	2.31	0.51
1:B:239:VAL:HG12	1:B:283:GLU:HB2	1.91	0.51
1:B:2026:ASN:O	1:B:2029:ASN:N	2.41	0.51
1:B:2350:LEU:CD2	1:B:2350:LEU:N	2.73	0.51
1:D:275:ALA:CA	2:D:2801:JYP:N4	2.74	0.51
1:D:2695:LEU:N	1:D:2695:LEU:CD1	2.74	0.51
1:A:438:ALA:HA	1:A:441:ARG:HH12	1.76	0.51
1:A:1291:VAL:O	1:A:1295:PHE:N	2.32	0.51
1:A:2433:SER:C	1:A:2434:VAL:HG23	2.31	0.51
1:C:582:GLN:NE2	1:C:582:GLN:CA	2.72	0.51
1:C:2360:PHE:O	1:C:2364:ASN:CG	2.48	0.51
1:C:2433:SER:CA	1:C:2592:THR:HG21	2.41	0.51
1:B:2362:VAL:HG13	1:B:2363:CYS:N	2.26	0.51
1:B:2433:SER:CA	1:B:2592:THR:HG21	2.41	0.51
1:B:2581:VAL:HG23	1:B:2581:VAL:O	2.11	0.51
1:A:2412:PHE:C	1:A:2414:SER:H	2.14	0.51
1:A:2566:ARG:NH1	1:A:2566:ARG:CB	2.73	0.51
1:C:74:LYS:HA	1:C:74:LYS:HZ3	1.70	0.51
1:C:441:ARG:NH1	1:C:441:ARG:CG	2.73	0.51
1:C:2412:PHE:O	1:C:2414:SER:CA	2.56	0.51
1:B:62:PRO:HB2	1:B:107:ASN:OD1	2.10	0.51
1:D:199:GLN:NE2	1:D:200:LEU:O	2.44	0.51
1:D:2046:GLY:O	1:D:2047:PRO:C	2.46	0.51
1:D:2219:LEU:HD12	1:D:2250:LEU:HD11	1.93	0.51
1:D:2412:PHE:C	1:D:2414:SER:H	2.14	0.51
1:D:2559:GLU:O	1:D:2563:PHE:CD1	2.64	0.51
2:D:2801:JYP:O16	2:D:2801:JYP:C11	2.58	0.51
1:A:2404:MET:HG3	1:A:2412:PHE:CE1	2.47	0.50
2:A:2801:JYP:O16	2:A:2801:JYP:C11	2.59	0.50
1:C:509:LEU:HA	1:C:512:GLU:CB	2.39	0.50
1:C:514:ASN:CB	1:C:517:LYS:H	2.21	0.50
1:C:2453:TYR:O	1:C:2456:SER:OG	2.26	0.50
1:B:1296:VAL:O	1:B:1301:THR:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2384:ARG:HB3	1:B:2387:VAL:CG1	2.41	0.50
1:B:2571:LEU:O	1:B:2574:PHE:N	2.45	0.50
1:D:85:ASP:H	1:D:89:LEU:HD12	1.76	0.50
1:D:2239:LYS:HE2	1:D:2240:ILE:CG1	2.41	0.50
1:D:2372:PHE:CD1	1:D:2372:PHE:C	2.85	0.50
1:A:270:GLN:C	1:A:272:ALA:H	2.10	0.50
1:A:275:ALA:CA	2:A:2801:JYP:N4	2.74	0.50
1:A:2239:LYS:HE2	1:A:2240:ILE:CG1	2.41	0.50
1:A:2423:ARG:NH2	1:A:2425:GLU:HG3	2.26	0.50
1:A:2559:GLU:O	1:A:2563:PHE:CD1	2.64	0.50
1:C:199:GLN:NE2	1:C:200:LEU:O	2.44	0.50
1:C:2559:GLU:O	1:C:2563:PHE:CD1	2.64	0.50
1:B:1813:MET:CA	1:B:1853:SER:CA	2.89	0.50
1:B:2219:LEU:HD12	1:B:2250:LEU:HD11	1.93	0.50
1:B:2239:LYS:HE2	1:B:2240:ILE:CG1	2.41	0.50
1:B:2287:MET:O	1:B:2290:LEU:HB2	2.08	0.50
1:B:2370:MET:CE	1:B:2370:MET:CA	2.85	0.50
1:B:2423:ARG:NH2	1:B:2425:GLU:HG3	2.26	0.50
1:B:2715:GLN:OE1	1:B:2718:GLU:CD	2.42	0.50
1:D:2219:LEU:CD2	1:D:2254:MET:CE	2.77	0.50
1:D:2389:ASP:HA	1:D:2392:PHE:CZ	2.47	0.50
1:A:85:ASP:H	1:A:89:LEU:HD12	1.76	0.50
1:A:508:LYS:HG3	1:A:570:ASN:HD21	1.77	0.50
1:A:2219:LEU:HD12	1:A:2250:LEU:HD11	1.93	0.50
1:A:2427:LEU:HD21	1:D:2447:LEU:HD12	1.93	0.50
1:C:2385:ALA:HA	1:C:2388:LEU:HD21	1.94	0.50
1:C:2581:VAL:HG23	1:C:2581:VAL:O	2.11	0.50
1:C:2583:ASN:HB3	1:D:2586:PHE:HE1	1.62	0.50
1:C:2696:ARG:NH2	1:D:2696:ARG:HH22	2.09	0.50
1:B:85:ASP:H	1:B:89:LEU:HD12	1.76	0.50
1:B:2433:SER:C	1:B:2434:VAL:HG23	2.31	0.50
1:B:2624:LYS:HE3	1:B:2625:THR:HB	1.94	0.50
1:B:2695:LEU:N	1:B:2695:LEU:CD1	2.74	0.50
1:D:438:ALA:HA	1:D:441:ARG:HH22	1.75	0.50
1:D:447:ASN:CB	1:D:513:GLN:OE1	2.60	0.50
1:D:1317:LYS:CA	1:D:1385:CYS:O	2.58	0.50
1:D:1808:VAL:O	1:D:1812:ILE:N	2.40	0.50
1:D:2581:VAL:O	1:D:2581:VAL:HG23	2.11	0.50
1:A:450:SER:N	1:A:453:LEU:HG	2.24	0.50
1:A:2372:PHE:CD1	1:A:2372:PHE:C	2.85	0.50
1:A:2696:ARG:NH1	1:D:2696:ARG:HH21	2.02	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:199:GLN:NE2	1:C:203:ASN:O	2.43	0.50
1:C:2289:LEU:N	1:C:2289:LEU:CD1	2.72	0.50
1:C:2345:ILE:CG2	1:C:2348:VAL:CG1	2.88	0.50
1:C:2365:LYS:HZ3	1:C:2395:HIS:HA	1.75	0.50
1:C:2423:ARG:NH2	1:C:2425:GLU:HG3	2.26	0.50
1:B:886:ARG:O	1:B:889:LYS:C	2.44	0.50
1:B:2559:GLU:O	1:B:2563:PHE:CD1	2.64	0.50
1:D:104:GLU:C	1:D:106:GLU:N	2.64	0.50
1:D:2410:GLU:HB2	1:D:2411:PHE:CG	2.47	0.50
1:D:2624:LYS:HE3	1:D:2625:THR:HB	1.94	0.50
1:A:457:ALA:N	1:A:521:LYS:HE3	2.27	0.50
1:A:2190:ALA:C	1:A:2192:HIS:H	2.15	0.50
1:A:2362:VAL:HG13	1:A:2363:CYS:N	2.26	0.50
1:A:2393:LEU:C	1:A:2393:LEU:HD12	2.32	0.50
1:A:2410:GLU:HB2	1:A:2411:PHE:CG	2.47	0.50
1:A:2710:THR:CG2	1:A:2711:ASN:N	2.74	0.50
1:C:62:PRO:HB2	1:C:107:ASN:OD1	2.10	0.50
1:C:447:ASN:CB	1:C:513:GLN:OE1	2.60	0.50
1:C:450:SER:N	1:C:453:LEU:HG	2.24	0.50
1:C:2433:SER:C	1:C:2434:VAL:HG23	2.31	0.50
1:C:2571:LEU:O	1:C:2574:PHE:N	2.45	0.50
1:C:2695:LEU:N	1:C:2695:LEU:CD1	2.74	0.50
1:B:38:VAL:HB	1:B:206:CYS:HB3	1.92	0.50
1:B:380:SER:O	1:B:380:SER:OG	2.24	0.50
1:B:438:ALA:HA	1:B:441:ARG:HH12	1.76	0.50
1:B:2559:GLU:OE2	1:B:2562:LEU:CG	2.47	0.50
1:B:2575:PHE:C	1:B:2575:PHE:CD1	2.83	0.50
1:D:72:PHE:CE1	1:D:93:HIS:CB	2.86	0.50
1:D:438:ALA:HA	1:D:441:ARG:HH12	1.76	0.50
1:D:2404:MET:HG3	1:D:2412:PHE:CE1	2.47	0.50
1:D:2433:SER:C	1:D:2434:VAL:HG23	2.31	0.50
1:A:1296:VAL:O	1:A:1301:THR:N	2.44	0.50
1:A:2624:LYS:HE3	1:A:2625:THR:HB	1.94	0.50
1:C:517:LYS:NZ	1:C:517:LYS:CA	2.73	0.50
1:C:2624:LYS:HE3	1:C:2625:THR:HB	1.94	0.50
1:B:270:GLN:C	1:B:272:ALA:H	2.10	0.50
1:B:2190:ALA:C	1:B:2192:HIS:H	2.15	0.50
1:D:2412:PHE:CD1	1:D:2415:LEU:CD1	2.95	0.50
1:D:2423:ARG:NH2	1:D:2425:GLU:HG3	2.26	0.50
1:A:74:LYS:CE	1:A:74:LYS:CA	2.85	0.50
1:A:2215:ILE:O	1:A:2254:MET:HE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2345:ILE:CG2	1:A:2348:VAL:CG1	2.88	0.50
1:A:2571:LEU:O	1:A:2574:PHE:N	2.45	0.50
1:C:275:ALA:CA	2:C:2801:JYP:N4	2.74	0.50
1:C:2186:LEU:HD23	1:C:2189:TYR:CE2	2.47	0.50
1:C:2393:LEU:C	1:C:2393:LEU:HD12	2.32	0.50
1:C:2710:THR:CG2	1:C:2711:ASN:N	2.74	0.50
1:B:2372:PHE:C	1:B:2372:PHE:CD1	2.85	0.50
1:B:2389:ASP:HA	1:B:2392:PHE:CZ	2.46	0.50
1:B:2393:LEU:C	1:B:2393:LEU:HD12	2.32	0.50
1:B:2404:MET:HG3	1:B:2412:PHE:CE1	2.47	0.50
1:B:2410:GLU:HB2	1:B:2411:PHE:CG	2.47	0.50
1:D:164:GLN:O	1:D:183:VAL:N	2.44	0.50
1:D:457:ALA:N	1:D:521:LYS:HE3	2.27	0.50
1:D:1296:VAL:O	1:D:1301:THR:N	2.44	0.50
1:D:1798:HIS:O	1:D:1802:GLU:N	2.40	0.50
1:D:2393:LEU:C	1:D:2393:LEU:HD12	2.32	0.50
1:A:104:GLU:C	1:A:106:GLU:N	2.64	0.50
1:A:441:ARG:CZ	1:A:441:ARG:CB	2.85	0.50
1:A:2558:LYS:CE	1:B:2528:CYS:HA	2.42	0.50
1:C:85:ASP:H	1:C:89:LEU:HD12	1.76	0.50
1:C:253:CYS:HA	1:C:262:VAL:HA	1.94	0.50
1:C:438:ALA:HA	1:C:441:ARG:HH12	1.76	0.50
1:C:457:ALA:N	1:C:521:LYS:HE3	2.27	0.50
1:C:1296:VAL:O	1:C:1301:THR:N	2.44	0.50
1:C:2026:ASN:O	1:C:2029:ASN:N	2.41	0.50
1:C:2239:LYS:HE2	1:C:2240:ILE:CG1	2.41	0.50
1:C:2271:ARG:HH12	1:C:2272:ASN:CG	1.88	0.50
1:C:2362:VAL:HG13	1:C:2363:CYS:N	2.26	0.50
1:B:447:ASN:CB	1:B:513:GLN:OE1	2.60	0.50
1:B:450:SER:HA	1:B:453:LEU:HG	1.94	0.50
1:B:508:LYS:HG3	1:B:570:ASN:HD21	1.77	0.50
1:B:2107:GLU:O	1:B:2111:ARG:N	2.45	0.50
1:B:2412:PHE:CD1	1:B:2415:LEU:CD1	2.95	0.50
1:B:2425:GLU:O	1:B:2429:ASN:N	2.43	0.50
1:B:2710:THR:CG2	1:B:2711:ASN:N	2.74	0.50
1:D:83:THR:O	1:D:85:ASP:CB	2.60	0.50
1:D:253:CYS:HA	1:D:262:VAL:HA	1.94	0.50
1:D:2385:ALA:HA	1:D:2388:LEU:HD21	1.94	0.50
1:A:447:ASN:CB	1:A:513:GLN:OE1	2.60	0.50
1:A:2186:LEU:HD23	1:A:2189:TYR:CE2	2.47	0.50
1:C:527:PHE:CD1	1:C:527:PHE:C	2.86	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1995:THR:C	1:C:1998:ASN:O	2.50	0.50
1:C:2372:PHE:CD1	1:C:2372:PHE:C	2.85	0.50
1:C:2384:ARG:HB3	1:C:2387:VAL:CG1	2.41	0.50
1:C:2573:PHE:CD1	1:C:2577:VAL:CG2	2.93	0.50
1:B:486:GLY:HA3	1:B:510:MET:CE	2.42	0.50
1:B:1995:THR:C	1:B:1998:ASN:O	2.50	0.50
1:B:2385:ALA:HA	1:B:2388:LEU:HD21	1.94	0.50
1:D:2186:LEU:HD23	1:D:2189:TYR:CE2	2.47	0.50
1:D:2433:SER:CA	1:D:2592:THR:HG21	2.41	0.50
1:A:450:SER:HA	1:A:453:LEU:HG	1.94	0.49
1:A:514:ASN:C	1:A:517:LYS:H	2.14	0.49
1:A:1798:HIS:O	1:A:1802:GLU:N	2.40	0.49
1:C:1317:LYS:CA	1:C:1385:CYS:O	2.58	0.49
1:C:2345:ILE:HD11	1:C:2356:LEU:CD1	2.42	0.49
1:C:2412:PHE:C	1:C:2414:SER:H	2.14	0.49
1:B:74:LYS:HA	1:B:74:LYS:HZ3	1.74	0.49
1:B:253:CYS:HA	1:B:262:VAL:HA	1.94	0.49
1:D:1995:THR:C	1:D:1998:ASN:O	2.50	0.49
1:D:2710:THR:CG2	1:D:2711:ASN:N	2.74	0.49
1:A:250:PHE:O	1:A:264:LEU:CB	2.61	0.49
1:A:503:ASN:HD21	1:A:505:GLU:HB2	1.77	0.49
1:A:2384:ARG:HB3	1:A:2387:VAL:CG1	2.41	0.49
1:A:2707:LYS:HG2	1:B:2706:MET:CB	2.38	0.49
1:C:81:ASN:N	1:C:81:ASN:ND2	2.60	0.49
1:C:508:LYS:HG3	1:C:570:ASN:HD21	1.77	0.49
1:B:64:ASN:ND2	1:B:103:ASN:HB3	2.28	0.49
1:B:2345:ILE:HD11	1:B:2356:LEU:HD11	1.94	0.49
1:D:64:ASN:ND2	1:D:103:ASN:HB3	2.27	0.49
1:D:517:LYS:NZ	1:D:517:LYS:CA	2.73	0.49
1:D:2264:PRO:HA	1:D:2267:TYR:CD2	2.48	0.49
1:D:2345:ILE:HD11	1:D:2356:LEU:CD1	2.42	0.49
1:A:300:ASN:ND2	1:D:2730:LYS:HG2	2.27	0.49
1:A:509:LEU:HA	1:A:512:GLU:CB	2.39	0.49
1:A:510:MET:C	1:A:515:ILE:HG21	2.28	0.49
1:A:1209:GLY:CA	1:A:1259:ILE:CA	2.91	0.49
1:A:2345:ILE:HD11	1:A:2356:LEU:HD11	1.94	0.49
1:A:2433:SER:CA	1:A:2592:THR:HG21	2.41	0.49
1:A:2581:VAL:O	1:A:2581:VAL:HG23	2.11	0.49
1:C:1808:VAL:O	1:C:1812:ILE:N	2.40	0.49
1:C:2389:ASP:HA	1:C:2392:PHE:CZ	2.47	0.49
1:C:2393:LEU:HD11	1:C:2394:TYR:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:571:GLN:HB3	1:B:574:ILE:CD1	2.38	0.49
1:B:2626:VAL:HG12	1:B:2627:THR:H	0.34	0.49
1:D:444:ASP:HA	1:D:447:ASN:ND2	2.28	0.49
1:D:2345:ILE:HD11	1:D:2356:LEU:HD11	1.94	0.49
1:D:2362:VAL:HG13	1:D:2363:CYS:N	2.26	0.49
1:D:2384:ARG:HB3	1:D:2387:VAL:CG1	2.41	0.49
1:A:64:ASN:ND2	1:A:103:ASN:HB3	2.28	0.49
1:A:253:CYS:HA	1:A:262:VAL:HA	1.94	0.49
1:A:443:LEU:HD23	1:A:513:GLN:NE2	2.28	0.49
1:A:486:GLY:HA3	1:A:510:MET:CE	2.42	0.49
1:A:2626:VAL:HG12	1:A:2627:THR:H	0.34	0.49
1:A:2651:LYS:HE2	1:A:2653:SER:H	1.77	0.49
1:C:64:ASN:ND2	1:C:103:ASN:HB3	2.28	0.49
1:C:524:GLN:HA	1:C:527:PHE:CD2	2.45	0.49
1:C:2219:LEU:HD12	1:C:2250:LEU:HD11	1.93	0.49
1:C:2348:VAL:HG23	1:C:2350:LEU:HD22	1.95	0.49
1:C:2410:GLU:HB2	1:C:2411:PHE:CG	2.47	0.49
1:B:503:ASN:HD21	1:B:505:GLU:HB2	1.77	0.49
1:B:1619:VAL:O	1:B:1621:ALA:C	2.50	0.49
1:B:2351:GLN:N	1:B:2352:PRO:CD	2.72	0.49
1:B:2393:LEU:HD11	1:B:2394:TYR:CZ	2.48	0.49
1:D:57:LEU:HD12	1:D:127:LYS:HB2	1.95	0.49
1:D:503:ASN:HD21	1:D:505:GLU:HB2	1.77	0.49
1:D:527:PHE:CD1	1:D:527:PHE:C	2.85	0.49
1:D:549:PHE:CD1	1:D:549:PHE:C	2.86	0.49
1:D:1961:ALA:C	1:D:1963:ILE:N	2.59	0.49
1:D:2348:VAL:HG23	1:D:2350:LEU:HD22	1.95	0.49
1:D:2384:ARG:O	1:D:2388:LEU:HD23	2.06	0.49
1:A:444:ASP:HA	1:A:447:ASN:ND2	2.28	0.49
1:A:452:VAL:O	1:A:453:LEU:C	2.49	0.49
1:A:1302:HIS:C	1:D:144:LYS:CB	2.81	0.49
1:A:2396:LEU:HD22	1:A:2400:LEU:HG	1.95	0.49
1:A:2412:PHE:CD1	1:A:2415:LEU:CD1	2.95	0.49
1:A:2448:ALA:O	1:A:2452:VAL:N	2.39	0.49
1:C:57:LEU:HD12	1:C:127:LYS:HB2	1.95	0.49
1:C:2046:GLY:O	1:C:2047:PRO:C	2.46	0.49
1:C:2404:MET:HG3	1:C:2412:PHE:CE1	2.47	0.49
1:C:2651:LYS:HE2	1:C:2653:SER:H	1.77	0.49
1:C:2677:ARG:CD	1:D:2623:ASN:OD1	2.40	0.49
1:B:457:ALA:N	1:B:521:LYS:HE3	2.27	0.49
1:B:563:SER:HB3	1:B:567:TYR:HE2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2348:VAL:HG23	1:B:2350:LEU:HD22	1.95	0.49
1:D:1209:GLY:CA	1:D:1259:ILE:CA	2.91	0.49
1:D:2251:PHE:CD1	1:D:2251:PHE:C	2.86	0.49
1:D:2393:LEU:HD11	1:D:2394:TYR:CZ	2.47	0.49
1:D:2571:LEU:O	1:D:2574:PHE:N	2.45	0.49
1:A:81:ASN:N	1:A:81:ASN:ND2	2.60	0.49
1:A:244:HIS:NE2	1:A:427:LYS:O	2.41	0.49
1:A:750:LEU:O	1:A:754:GLU:N	2.37	0.49
1:A:2571:LEU:O	1:A:2574:PHE:CB	2.56	0.49
1:C:39:VAL:N	1:C:207:ASN:O	2.45	0.49
1:C:549:PHE:CD1	1:C:549:PHE:C	2.86	0.49
1:C:563:SER:HB3	1:C:567:TYR:HE2	1.77	0.49
1:C:2412:PHE:CD1	1:C:2415:LEU:CD1	2.95	0.49
1:C:2586:PHE:CA	1:B:2583:ASN:HD22	2.26	0.49
1:C:2716:LEU:HD23	1:C:2716:LEU:N	2.04	0.49
1:C:2728:LYS:HA	1:C:2731:GLN:OE1	2.13	0.49
1:B:81:ASN:N	1:B:81:ASN:ND2	2.60	0.49
1:B:452:VAL:O	1:B:455:SER:N	2.46	0.49
1:B:2365:LYS:HZ1	1:B:2395:HIS:CB	2.26	0.49
1:B:2651:LYS:HE2	1:B:2653:SER:H	1.77	0.49
1:D:508:LYS:HG3	1:D:570:ASN:HD21	1.77	0.49
1:D:567:TYR:O	1:D:571:GLN:NE2	2.46	0.49
1:D:2622:ASP:CG	1:D:2628:PHE:CE1	2.61	0.49
1:A:567:TYR:O	1:A:571:GLN:NE2	2.46	0.49
1:A:2287:MET:O	1:A:2290:LEU:HB2	2.08	0.49
1:A:2345:ILE:HD11	1:A:2356:LEU:CD1	2.42	0.49
1:A:2385:ALA:HA	1:A:2388:LEU:HD21	1.94	0.49
1:A:2393:LEU:HD11	1:A:2394:TYR:CZ	2.47	0.49
1:A:2556:PRO:O	1:A:2563:PHE:HE1	1.96	0.49
1:C:444:ASP:HA	1:C:447:ASN:ND2	2.28	0.49
1:C:450:SER:HA	1:C:453:LEU:HG	1.94	0.49
1:C:638:CYS:O	1:C:643:LYS:N	2.46	0.49
1:C:963:GLU:O	1:C:967:VAL:N	2.37	0.49
1:C:1295:PHE:O	1:C:1299:ILE:N	2.44	0.49
1:C:2215:ILE:O	1:C:2254:MET:HE1	2.12	0.49
1:B:83:THR:O	1:B:85:ASP:CB	2.60	0.49
1:D:1198:ARG:O	1:D:1202:GLN:N	2.46	0.49
1:D:1295:PHE:O	1:D:1299:ILE:N	2.44	0.49
1:D:1837:THR:O	1:D:1841:HIS:N	2.37	0.49
1:A:203:ASN:HB3	1:A:206:CYS:HB2	1.95	0.49
1:A:1198:ARG:O	1:A:1202:GLN:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2389:ASP:HA	1:A:2392:PHE:CZ	2.47	0.49
1:A:2575:PHE:CD1	1:A:2575:PHE:C	2.83	0.49
1:A:2699:GLN:CG	1:D:2700:GLU:OE1	2.61	0.49
1:C:2239:LYS:CG	1:C:2240:ILE:N	2.54	0.49
1:C:2575:PHE:CD1	1:C:2575:PHE:C	2.83	0.49
1:B:275:ALA:CA	2:B:2801:JYP:N4	2.74	0.49
1:B:520:PHE:CE1	1:B:523:LEU:HD11	2.45	0.49
1:B:2278:SER:HB2	1:B:2281:PHE:HZ	1.60	0.49
1:B:2345:ILE:HD11	1:B:2356:LEU:CD1	2.42	0.49
1:D:963:GLU:O	1:D:967:VAL:N	2.37	0.49
1:D:2240:ILE:N	1:D:2240:ILE:CD1	2.71	0.49
1:A:2348:VAL:HG23	1:A:2350:LEU:HD22	1.95	0.49
1:A:2391:GLU:OE1	1:A:2391:GLU:HA	2.11	0.49
1:A:2401:ILE:HG21	1:A:2416:LEU:HD13	0.59	0.49
1:C:449:ALA:O	1:C:453:LEU:N	2.30	0.49
1:C:568:ARG:N	1:C:571:GLN:NE2	2.60	0.49
1:C:2264:PRO:HA	1:C:2267:TYR:CD2	2.48	0.49
1:B:444:ASP:HA	1:B:447:ASN:ND2	2.28	0.49
1:B:527:PHE:C	1:B:527:PHE:CD1	2.86	0.49
1:B:1209:GLY:CA	1:B:1259:ILE:CA	2.91	0.49
1:B:1619:VAL:O	1:B:1621:ALA:CA	2.58	0.49
1:B:2349:GLY:C	1:B:2351:GLN:H	2.12	0.49
1:D:199:GLN:NE2	1:D:203:ASN:O	2.44	0.49
1:D:443:LEU:HD23	1:D:513:GLN:NE2	2.28	0.49
1:D:2026:ASN:O	1:D:2029:ASN:N	2.41	0.49
1:D:2728:LYS:HA	1:D:2731:GLN:OE1	2.13	0.49
1:A:57:LEU:HD12	1:A:127:LYS:HB2	1.95	0.49
1:A:520:PHE:CE1	1:A:523:LEU:HD11	2.45	0.49
1:A:1995:THR:C	1:A:1998:ASN:O	2.50	0.49
1:A:2264:PRO:HA	1:A:2267:TYR:CD2	2.48	0.49
1:C:516:LEU:H	1:C:516:LEU:CD1	2.14	0.49
1:C:886:ARG:O	1:C:889:LYS:C	2.44	0.49
1:C:2273:MET:HB2	1:C:2371:SER:HG	1.66	0.49
1:B:510:MET:C	1:B:515:ILE:HG21	2.28	0.49
1:B:2234:ASP:N	1:B:2234:ASP:OD1	2.46	0.49
1:D:81:ASN:N	1:D:81:ASN:ND2	2.60	0.49
1:D:638:CYS:O	1:D:643:LYS:N	2.46	0.49
1:D:1619:VAL:O	1:D:1620:GLN:C	2.43	0.49
1:D:2033:ILE:O	1:D:2037:LEU:N	2.31	0.49
1:D:2401:ILE:HG21	1:D:2416:LEU:HD13	0.59	0.49
1:D:2556:PRO:O	1:D:2563:PHE:HE1	1.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:527:PHE:CD1	1:A:527:PHE:C	2.85	0.48
1:A:568:ARG:N	1:A:571:GLN:NE2	2.60	0.48
1:C:2107:GLU:O	1:C:2111:ARG:N	2.45	0.48
1:C:2213:PRO:CG	1:C:2647:LEU:CG	2.70	0.48
1:C:2345:ILE:HD11	1:C:2356:LEU:HD11	1.94	0.48
1:C:2699:GLN:CG	1:B:2700:GLU:OE1	2.60	0.48
1:B:2396:LEU:HD22	1:B:2400:LEU:HG	1.95	0.48
1:D:514:ASN:CB	1:D:517:LYS:H	2.21	0.48
1:D:563:SER:HB3	1:D:567:TYR:HE2	1.77	0.48
1:D:2651:LYS:HE2	1:D:2653:SER:H	1.77	0.48
1:A:131:TYR:HB2	1:A:152:ASP:HB3	1.95	0.48
1:C:203:ASN:HB3	1:C:206:CYS:HB2	1.95	0.48
1:C:2556:PRO:O	1:C:2563:PHE:HE1	1.96	0.48
1:B:88:LEU:CD1	1:B:88:LEU:N	2.72	0.48
1:B:443:LEU:HD23	1:B:513:GLN:NE2	2.28	0.48
1:B:638:CYS:O	1:B:643:LYS:N	2.46	0.48
1:B:2186:LEU:HD23	1:B:2189:TYR:CE2	2.47	0.48
1:B:2264:PRO:HA	1:B:2267:TYR:CD2	2.48	0.48
1:B:2271:ARG:HH12	1:B:2272:ASN:ND2	1.89	0.48
1:B:2576:MET:HE2	1:B:2580:ILE:HD12	1.95	0.48
1:D:2107:GLU:O	1:D:2111:ARG:N	2.45	0.48
1:A:452:VAL:O	1:A:455:SER:N	2.46	0.48
1:A:573:TYR:O	1:A:577:GLN:CD	2.52	0.48
1:A:2370:MET:CE	1:A:2370:MET:CA	2.85	0.48
1:A:2728:LYS:HA	1:A:2731:GLN:OE1	2.13	0.48
1:C:250:PHE:O	1:C:264:LEU:CB	2.61	0.48
1:C:1209:GLY:CA	1:C:1259:ILE:CA	2.91	0.48
1:C:1798:HIS:O	1:C:1802:GLU:N	2.40	0.48
1:B:269:ARG:CB	2:B:2801:JYP:C2	2.71	0.48
1:B:568:ARG:N	1:B:571:GLN:NE2	2.60	0.48
1:B:2453:TYR:O	1:B:2456:SER:OG	2.26	0.48
1:D:250:PHE:O	1:D:264:LEU:CB	2.61	0.48
1:D:269:ARG:HB3	2:D:2801:JYP:C2	2.28	0.48
1:D:2252:ASN:HA	1:D:2255:ASN:HD21	1.79	0.48
1:D:2626:VAL:HG12	1:D:2627:THR:H	0.34	0.48
1:A:638:CYS:O	1:A:643:LYS:N	2.46	0.48
1:A:2362:VAL:HG12	1:A:2363:CYS:SG	2.53	0.48
1:C:503:ASN:HD21	1:C:505:GLU:HB2	1.77	0.48
1:C:523:LEU:HD22	1:C:523:LEU:O	2.13	0.48
1:C:1961:ALA:C	1:C:1963:ILE:N	2.60	0.48
1:C:2396:LEU:HD22	1:C:2400:LEU:HG	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2447:LEU:CD1	1:D:2427:LEU:HD21	2.42	0.48
1:C:2626:VAL:HG12	1:C:2627:THR:H	0.34	0.48
1:C:2725:GLU:CD	1:D:2720:LYS:HD3	2.33	0.48
1:B:131:TYR:HB2	1:B:152:ASP:HB3	1.95	0.48
1:D:571:GLN:HB3	1:D:574:ILE:CD1	2.38	0.48
1:D:2680:ALA:O	1:D:2682:SER:N	2.45	0.48
1:A:646:PRO:CA	1:A:648:THR:H	2.26	0.48
1:A:2360:PHE:O	1:A:2364:ASN:N	2.38	0.48
1:C:100:LYS:HA	1:C:103:ASN:ND2	2.29	0.48
1:C:573:TYR:O	1:C:577:GLN:CD	2.52	0.48
1:C:2707:LYS:CD	1:C:2711:ASN:ND2	2.74	0.48
1:B:57:LEU:HD12	1:B:127:LYS:HB2	1.95	0.48
1:B:203:ASN:HB3	1:B:206:CYS:HB2	1.95	0.48
1:B:1198:ARG:O	1:B:1202:GLN:N	2.46	0.48
1:B:2612:PHE:CE1	1:B:2638:MET:CE	2.97	0.48
1:D:100:LYS:HA	1:D:103:ASN:ND2	2.29	0.48
1:D:162:TYR:HD2	1:D:185:ASN:HB3	1.79	0.48
1:D:578:PHE:CD1	1:D:578:PHE:C	2.87	0.48
1:D:824:ALA:O	1:D:829:ILE:CA	2.62	0.48
1:A:244:HIS:HE1	1:A:246:GLU:HB2	1.79	0.48
1:A:523:LEU:HD22	1:A:523:LEU:O	2.13	0.48
1:A:563:SER:HB3	1:A:567:TYR:HE2	1.77	0.48
1:A:824:ALA:O	1:A:829:ILE:CA	2.62	0.48
1:A:2252:ASN:HA	1:A:2255:ASN:HD21	1.79	0.48
1:C:571:GLN:HB3	1:C:574:ILE:CD1	2.38	0.48
1:B:2273:MET:CA	1:B:2276:TRP:CD1	2.71	0.48
1:D:2362:VAL:HG12	1:D:2363:CYS:SG	2.53	0.48
1:A:1961:ALA:C	1:A:1964:THR:H	2.17	0.48
1:A:2272:ASN:CG	1:A:2276:TRP:HZ2	2.17	0.48
1:A:2351:GLN:OE1	1:A:2351:GLN:HA	2.14	0.48
1:C:1198:ARG:O	1:C:1202:GLN:N	2.46	0.48
1:C:2180:VAL:C	1:C:2182:GLY:H	2.17	0.48
1:C:2251:PHE:CD1	1:C:2251:PHE:C	2.86	0.48
1:C:2590:ILE:HD12	1:C:2590:ILE:HA	1.72	0.48
1:B:100:LYS:HA	1:B:103:ASN:ND2	2.29	0.48
1:B:523:LEU:HD22	1:B:523:LEU:O	2.13	0.48
1:B:567:TYR:O	1:B:571:GLN:NE2	2.46	0.48
1:A:62:PRO:HG2	1:A:107:ASN:OD1	2.14	0.48
1:A:74:LYS:CA	1:A:74:LYS:HE2	2.44	0.48
1:A:2612:PHE:CE1	1:A:2638:MET:CE	2.97	0.48
1:C:452:VAL:O	1:C:455:SER:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:508:LYS:HD2	1:C:570:ASN:HD21	1.79	0.48
1:C:1837:THR:O	1:C:1841:HIS:N	2.37	0.48
1:C:2706:MET:HB3	1:B:2707:LYS:HD3	1.96	0.48
1:B:244:HIS:HE1	1:B:246:GLU:HB2	1.79	0.48
1:B:452:VAL:O	1:B:453:LEU:C	2.49	0.48
1:B:510:MET:O	1:B:515:ILE:HG22	2.08	0.48
1:B:2728:LYS:HA	1:B:2731:GLN:OE1	2.13	0.48
1:D:1961:ALA:C	1:D:1964:THR:H	2.17	0.48
1:C:2252:ASN:HA	1:C:2255:ASN:HD21	1.79	0.48
1:C:2571:LEU:O	1:C:2574:PHE:CB	2.56	0.48
1:B:578:PHE:CD1	1:B:578:PHE:C	2.86	0.48
1:B:2203:ARG:N	1:B:2679:ARG:HH11	2.12	0.48
1:B:2345:ILE:HD12	1:B:2357:LEU:CD2	2.44	0.48
1:B:2362:VAL:HG12	1:B:2363:CYS:SG	2.53	0.48
1:B:2663:VAL:HA	1:B:2666:MET:HB2	1.96	0.48
1:D:447:ASN:HB3	1:D:513:GLN:CD	2.34	0.48
1:D:452:VAL:O	1:D:455:SER:N	2.46	0.48
1:D:486:GLY:HA3	1:D:510:MET:CE	2.41	0.48
1:D:2200:ARG:CD	1:D:2662:TYR:CG	2.92	0.48
1:A:380:SER:O	1:A:380:SER:OG	2.24	0.48
1:A:2287:MET:SD	1:A:2287:MET:C	2.92	0.48
1:C:244:HIS:HE1	1:C:246:GLU:HB2	1.79	0.48
1:C:447:ASN:HB3	1:C:513:GLN:CD	2.34	0.48
1:C:555:LEU:HD23	1:C:555:LEU:HA	1.72	0.48
1:C:2216:CYS:SG	1:C:2646:VAL:CB	3.02	0.48
1:C:2351:GLN:OE1	1:C:2351:GLN:HA	2.14	0.48
1:C:2612:PHE:CE1	1:C:2638:MET:CE	2.97	0.48
1:B:646:PRO:CA	1:B:648:THR:H	2.26	0.48
1:B:1072:TYR:O	1:B:1075:LEU:N	2.47	0.48
1:B:2287:MET:SD	1:B:2287:MET:C	2.92	0.48
1:B:2556:PRO:O	1:B:2563:PHE:HE1	1.96	0.48
1:D:62:PRO:HG2	1:D:107:ASN:OD1	2.14	0.48
1:D:2190:ALA:C	1:D:2192:HIS:H	2.15	0.48
1:D:2216:CYS:SG	1:D:2646:VAL:CB	3.02	0.48
1:D:2663:VAL:HA	1:D:2666:MET:HB2	1.96	0.48
1:A:162:TYR:HD2	1:A:185:ASN:HB3	1.79	0.47
1:A:446:ALA:HA	1:A:480:LEU:HD11	1.96	0.47
1:A:508:LYS:HD2	1:A:570:ASN:ND2	2.29	0.47
1:A:2203:ARG:N	1:A:2679:ARG:HH11	2.12	0.47
1:C:443:LEU:HD23	1:C:513:GLN:NE2	2.28	0.47
1:C:510:MET:C	1:C:515:ILE:HG21	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:824:ALA:O	1:C:829:ILE:CA	2.62	0.47
1:C:1619:VAL:O	1:C:1621:ALA:CA	2.58	0.47
1:C:2201:LEU:HA	1:C:2201:LEU:HD22	1.34	0.47
1:C:2576:MET:HE1	1:C:2580:ILE:CD1	2.42	0.47
1:C:2723:MET:C	1:C:2723:MET:SD	2.93	0.47
1:B:580:PHE:CD1	1:B:580:PHE:N	2.73	0.47
1:B:1798:HIS:O	1:B:1802:GLU:N	2.40	0.47
1:D:450:SER:N	1:D:453:LEU:HG	2.24	0.47
1:D:1072:TYR:O	1:D:1075:LEU:N	2.47	0.47
1:A:1072:TYR:O	1:A:1075:LEU:N	2.47	0.47
1:A:2103:ARG:O	1:A:2105:ASP:N	2.39	0.47
1:A:2199:VAL:HG22	1:A:2206:GLU:H	1.80	0.47
1:A:2696:ARG:HH22	1:D:2696:ARG:NH2	2.12	0.47
1:C:81:ASN:N	1:C:81:ASN:HD22	2.12	0.47
1:C:83:THR:O	1:C:85:ASP:CB	2.60	0.47
1:C:578:PHE:C	1:C:578:PHE:CD1	2.86	0.47
1:C:2190:ALA:C	1:C:2192:HIS:H	2.15	0.47
1:C:2285:VAL:O	1:C:2287:MET:C	2.53	0.47
1:C:2285:VAL:CG1	1:C:2286:LEU:H	2.24	0.47
1:B:92:LEU:N	1:B:92:LEU:CD1	2.73	0.47
1:B:1317:LYS:CA	1:B:1385:CYS:CA	2.92	0.47
1:B:1792:LEU:O	1:B:1797:CYS:N	2.44	0.47
1:B:1837:THR:O	1:B:1841:HIS:N	2.37	0.47
1:B:2405:GLY:N	1:B:2408:VAL:HG23	2.29	0.47
1:B:2441:ILE:HD12	1:B:2441:ILE:HA	1.77	0.47
1:D:74:LYS:CA	1:D:74:LYS:HE2	2.44	0.47
1:D:81:ASN:N	1:D:81:ASN:HD22	2.12	0.47
1:D:131:TYR:HB2	1:D:152:ASP:HB3	1.95	0.47
1:D:203:ASN:HB3	1:D:206:CYS:HB2	1.95	0.47
1:D:646:PRO:CA	1:D:648:THR:H	2.26	0.47
1:D:2199:VAL:HG22	1:D:2206:GLU:H	1.79	0.47
1:D:2272:ASN:O	1:D:2276:TRP:HD1	1.78	0.47
1:D:2361:ASN:ND2	1:D:2401:ILE:CD1	2.50	0.47
1:D:2396:LEU:HD22	1:D:2400:LEU:HG	1.95	0.47
1:A:549:PHE:CD1	1:A:549:PHE:C	2.86	0.47
1:C:567:TYR:O	1:C:571:GLN:NE2	2.46	0.47
1:C:646:PRO:CA	1:C:648:THR:H	2.26	0.47
1:C:1961:ALA:C	1:C:1964:THR:H	2.17	0.47
1:C:2199:VAL:HG22	1:C:2206:GLU:H	1.80	0.47
1:C:2362:VAL:HG12	1:C:2363:CYS:SG	2.54	0.47
1:B:74:LYS:CA	1:B:74:LYS:HE2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:250:PHE:O	1:B:264:LEU:CB	2.61	0.47
1:B:446:ALA:HA	1:B:480:LEU:HD11	1.96	0.47
1:B:447:ASN:HB3	1:B:513:GLN:CD	2.34	0.47
1:B:514:ASN:HD21	1:B:517:LYS:HD2	1.56	0.47
1:B:517:LYS:NZ	1:B:517:LYS:CA	2.73	0.47
1:B:824:ALA:O	1:B:829:ILE:CA	2.62	0.47
1:B:1961:ALA:C	1:B:1964:THR:H	2.17	0.47
1:B:2285:VAL:CG1	1:B:2286:LEU:H	2.24	0.47
1:D:302:LEU:HG	1:D:367:ILE:HG22	1.95	0.47
1:D:441:ARG:NH1	1:D:441:ARG:CG	2.72	0.47
1:D:523:LEU:HD22	1:D:523:LEU:O	2.13	0.47
1:D:2559:GLU:OE2	1:D:2562:LEU:CG	2.47	0.47
1:D:2632:ILE:H	1:D:2632:ILE:HG13	1.39	0.47
1:A:2250:LEU:HD13	1:A:2250:LEU:C	2.28	0.47
1:A:2285:VAL:O	1:A:2287:MET:C	2.53	0.47
1:A:2301:ARG:HG3	1:A:2303:GLY:H	1.80	0.47
1:A:2639:TRP:HA	1:A:2639:TRP:HE3	1.79	0.47
1:C:71:GLN:HA	1:C:74:LYS:HB2	1.96	0.47
1:C:1317:LYS:CA	1:C:1385:CYS:CA	2.92	0.47
1:C:2203:ARG:N	1:C:2679:ARG:HH11	2.12	0.47
1:C:2287:MET:C	1:C:2287:MET:SD	2.92	0.47
1:C:2345:ILE:HD12	1:C:2357:LEU:CD2	2.44	0.47
1:B:62:PRO:HG2	1:B:107:ASN:OD1	2.14	0.47
1:B:508:LYS:HD2	1:B:570:ASN:ND2	2.29	0.47
1:B:886:ARG:O	1:B:889:LYS:N	2.48	0.47
1:B:2199:VAL:HG22	1:B:2206:GLU:H	1.80	0.47
1:B:2285:VAL:O	1:B:2287:MET:C	2.53	0.47
1:D:886:ARG:O	1:D:889:LYS:N	2.48	0.47
1:D:2288:ASN:HB3	1:D:2413:TYR:CB	2.38	0.47
1:D:2345:ILE:HD12	1:D:2357:LEU:CD2	2.44	0.47
1:D:2448:ALA:O	1:D:2452:VAL:N	2.39	0.47
1:D:2639:TRP:HA	1:D:2639:TRP:HE3	1.79	0.47
1:A:100:LYS:HA	1:A:103:ASN:ND2	2.29	0.47
1:A:453:LEU:C	1:A:521:LYS:HD2	2.35	0.47
1:A:578:PHE:C	1:A:578:PHE:CD1	2.87	0.47
1:A:886:ARG:O	1:A:889:LYS:N	2.48	0.47
1:A:2201:LEU:HA	1:A:2662:TYR:OH	2.15	0.47
1:A:2345:ILE:HD12	1:A:2357:LEU:CD2	2.44	0.47
1:A:2423:ARG:HH22	1:A:2425:GLU:HG3	1.79	0.47
1:A:2723:MET:SD	1:A:2723:MET:C	2.93	0.47
1:C:302:LEU:HG	1:C:367:ILE:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1619:VAL:O	1:C:1621:ALA:C	2.50	0.47
1:C:2384:ARG:O	1:C:2388:LEU:HD23	2.06	0.47
1:B:81:ASN:N	1:B:81:ASN:HD22	2.12	0.47
1:B:162:TYR:HD2	1:B:185:ASN:HB3	1.79	0.47
1:B:453:LEU:C	1:B:521:LYS:HD2	2.35	0.47
1:B:2213:PRO:CD	1:B:2647:LEU:CD1	2.93	0.47
1:B:2566:ARG:NH1	1:B:2566:ARG:CG	2.71	0.47
1:B:2723:MET:SD	1:B:2723:MET:C	2.93	0.47
1:D:508:LYS:HD2	1:D:570:ASN:HD21	1.79	0.47
1:D:581:MET:SD	1:D:582:GLN:N	2.88	0.47
1:D:2285:VAL:O	1:D:2287:MET:C	2.53	0.47
1:D:2287:MET:C	1:D:2287:MET:SD	2.92	0.47
1:A:81:ASN:N	1:A:81:ASN:HD22	2.12	0.47
1:A:302:LEU:HG	1:A:367:ILE:HG22	1.95	0.47
1:A:546:HIS:HB2	1:A:547:ALA:H	1.48	0.47
1:A:1837:THR:O	1:A:1841:HIS:N	2.37	0.47
1:A:2441:ILE:HD12	1:A:2444:THR:HB	1.97	0.47
1:C:62:PRO:HG2	1:C:107:ASN:OD1	2.14	0.47
1:C:90:ASN:CA	1:C:93:HIS:CE1	2.80	0.47
1:C:760:ASP:C	1:C:762:ASP:N	2.68	0.47
1:C:1072:TYR:O	1:C:1075:LEU:N	2.47	0.47
1:C:2273:MET:CA	1:C:2276:TRP:CD1	2.71	0.47
1:C:2423:ARG:HH22	1:C:2425:GLU:HG3	1.79	0.47
1:B:39:VAL:HB	1:B:207:ASN:HB2	1.96	0.47
1:B:508:LYS:HD2	1:B:570:ASN:HD21	1.79	0.47
1:B:2240:ILE:N	1:B:2240:ILE:CD1	2.71	0.47
1:B:2283:LEU:HD21	1:B:2360:PHE:CE1	2.50	0.47
1:B:2351:GLN:OE1	1:B:2351:GLN:HA	2.14	0.47
1:B:2441:ILE:HD12	1:B:2444:THR:HB	1.97	0.47
1:D:508:LYS:HD2	1:D:570:ASN:ND2	2.30	0.47
1:D:1317:LYS:CA	1:D:1385:CYS:CA	2.92	0.47
1:D:2180:VAL:C	1:D:2182:GLY:H	2.17	0.47
1:D:2201:LEU:HA	1:D:2662:TYR:OH	2.15	0.47
1:D:2405:GLY:N	1:D:2408:VAL:HG23	2.29	0.47
1:A:21:GLY:N	1:A:24:ASN:OD1	2.48	0.47
1:A:72:PHE:CE1	1:A:93:HIS:CB	2.86	0.47
1:A:447:ASN:HB3	1:A:513:GLN:CD	2.34	0.47
1:A:517:LYS:NZ	1:A:517:LYS:CA	2.73	0.47
1:A:580:PHE:CD1	1:A:580:PHE:N	2.73	0.47
1:A:1209:GLY:CA	1:A:1259:ILE:C	2.83	0.47
1:A:2180:VAL:C	1:A:2182:GLY:H	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2251:PHE:CD1	1:A:2251:PHE:C	2.86	0.47
1:A:2441:ILE:HD12	1:A:2441:ILE:HA	1.77	0.47
1:C:55:ASP:O	1:C:125:HIS:NE2	2.48	0.47
1:C:74:LYS:CA	1:C:74:LYS:HE2	2.44	0.47
1:C:131:TYR:HB2	1:C:152:ASP:HB3	1.95	0.47
1:C:452:VAL:O	1:C:453:LEU:C	2.49	0.47
1:C:581:MET:SD	1:C:582:GLN:N	2.88	0.47
1:C:886:ARG:O	1:C:889:LYS:N	2.48	0.47
1:C:2103:ARG:C	1:C:2105:ASP:H	2.09	0.47
1:C:2283:LEU:HD21	1:C:2360:PHE:CE1	2.50	0.47
1:C:2441:ILE:HD12	1:C:2444:THR:HB	1.97	0.47
1:C:2649:LYS:C	1:C:2650:VAL:CG2	2.54	0.47
1:C:2691:GLU:OE1	1:C:2691:GLU:HA	2.15	0.47
1:D:71:GLN:HA	1:D:74:LYS:HB2	1.96	0.47
1:D:446:ALA:HA	1:D:480:LEU:HD11	1.96	0.47
1:D:1107:GLN:O	1:D:1108:ASP:C	2.53	0.47
1:D:2234:ASP:N	1:D:2234:ASP:OD1	2.46	0.47
1:D:2301:ARG:HG3	1:D:2303:GLY:H	1.80	0.47
1:D:2400:LEU:HD23	1:D:2400:LEU:HA	1.69	0.47
1:D:2612:PHE:CE1	1:D:2638:MET:CE	2.97	0.47
1:D:2723:MET:SD	1:D:2723:MET:C	2.93	0.47
1:A:581:MET:SD	1:A:582:GLN:N	2.88	0.47
1:A:1317:LYS:CA	1:A:1385:CYS:CA	2.92	0.47
1:A:2196:ILE:N	1:A:2208:ILE:O	2.47	0.47
1:A:2243:PHE:CZ	1:A:2638:MET:CA	2.98	0.47
1:A:2405:GLY:N	1:A:2408:VAL:HG23	2.29	0.47
1:A:2680:ALA:O	1:A:2682:SER:N	2.45	0.47
1:A:2696:ARG:NH2	1:D:2696:ARG:NH2	2.63	0.47
1:C:162:TYR:HD2	1:C:185:ASN:HB3	1.79	0.47
1:C:270:GLN:HE21	1:C:271:SER:N	1.96	0.47
1:C:2591:ASP:OD1	1:D:2597:ARG:NH1	2.48	0.47
1:C:2663:VAL:HA	1:C:2666:MET:HB2	1.96	0.47
1:C:2707:LYS:HG2	1:D:2706:MET:HB3	1.96	0.47
1:C:2723:MET:SD	1:C:2727:ARG:HD2	2.55	0.47
1:C:2732:ARG:NH1	1:C:2732:ARG:CB	2.72	0.47
1:B:441:ARG:NH1	1:B:441:ARG:CG	2.72	0.47
1:B:2423:ARG:HH22	1:B:2425:GLU:HG3	1.79	0.47
1:D:55:ASP:O	1:D:125:HIS:NE2	2.48	0.47
1:D:568:ARG:N	1:D:571:GLN:NE2	2.60	0.47
1:D:760:ASP:C	1:D:762:ASP:N	2.68	0.47
1:D:2039:SER:O	1:D:2043:TYR:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2351:GLN:OE1	1:D:2351:GLN:HA	2.14	0.47
1:A:317:GLU:O	1:A:353:TYR:N	2.48	0.47
1:A:449:ALA:C	1:A:453:LEU:CG	2.59	0.47
1:A:760:ASP:C	1:A:762:ASP:N	2.68	0.47
1:A:1619:VAL:O	1:A:1621:ALA:CA	2.58	0.47
1:A:2107:GLU:O	1:A:2111:ARG:N	2.45	0.47
1:A:2203:ARG:H	1:A:2679:ARG:HH11	1.63	0.47
1:A:2716:LEU:HD23	1:A:2716:LEU:N	2.04	0.47
1:C:504:ARG:HD3	2:C:2801:JYP:O7	2.15	0.47
1:C:2639:TRP:HA	1:C:2639:TRP:HE3	1.79	0.47
1:B:577:GLN:O	1:B:580:PHE:HD1	1.98	0.47
1:B:2180:VAL:C	1:B:2182:GLY:H	2.17	0.47
1:B:2243:PHE:CZ	1:B:2638:MET:CA	2.98	0.47
1:B:2251:PHE:CD1	1:B:2251:PHE:C	2.86	0.47
1:D:244:HIS:HE1	1:D:246:GLU:HB2	1.79	0.47
1:D:1619:VAL:O	1:D:1621:ALA:CA	2.58	0.47
1:A:39:VAL:HB	1:A:207:ASN:HB2	1.96	0.47
1:A:886:ARG:O	1:A:889:LYS:CA	2.63	0.47
1:A:2361:ASN:ND2	1:A:2401:ILE:CD1	2.50	0.47
1:C:72:PHE:CE1	1:C:93:HIS:CB	2.86	0.47
1:C:508:LYS:HD2	1:C:570:ASN:ND2	2.29	0.47
1:C:2397:LEU:HD23	1:C:2397:LEU:HA	1.46	0.47
1:C:2453:TYR:HE1	1:C:2536:VAL:HG23	1.80	0.47
1:B:21:GLY:N	1:B:24:ASN:OD1	2.48	0.47
1:B:99:GLU:HG2	1:B:102:GLN:NE2	2.30	0.47
1:B:581:MET:SD	1:B:582:GLN:N	2.88	0.47
1:B:2203:ARG:H	1:B:2679:ARG:HH11	1.63	0.47
1:B:2252:ASN:HA	1:B:2255:ASN:HD21	1.79	0.47
1:B:2301:ARG:HG3	1:B:2303:GLY:H	1.80	0.47
1:D:449:ALA:O	1:D:453:LEU:N	2.30	0.47
1:D:2441:ILE:HD12	1:D:2444:THR:HB	1.97	0.47
1:D:2578:ILE:HG23	1:D:2579:ILE:CD1	2.45	0.47
1:A:83:THR:O	1:A:85:ASP:CB	2.60	0.46
1:A:99:GLU:HG2	1:A:102:GLN:NE2	2.30	0.46
1:C:453:LEU:C	1:C:521:LYS:HD2	2.35	0.46
1:C:1035:GLU:O	1:C:1039:GLY:N	2.49	0.46
1:C:1209:GLY:CA	1:C:1259:ILE:C	2.83	0.46
1:C:2201:LEU:HA	1:C:2662:TYR:OH	2.15	0.46
1:B:92:LEU:H	1:B:92:LEU:HD13	1.79	0.46
1:B:2200:ARG:CD	1:B:2662:TYR:CG	2.92	0.46
1:D:2360:PHE:O	1:D:2364:ASN:N	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2423:ARG:HH22	1:D:2425:GLU:HG3	1.79	0.46
1:D:2556:PRO:HB2	1:D:2563:PHE:CD1	2.50	0.46
1:D:2639:TRP:HA	1:D:2639:TRP:CE3	2.50	0.46
1:A:8:PHE:CE2	1:A:176:VAL:HB	2.50	0.46
1:A:524:GLN:HA	1:A:527:PHE:CD2	2.45	0.46
1:A:1456:VAL:C	1:A:1507:PRO:O	2.47	0.46
1:A:2283:LEU:HD21	1:A:2360:PHE:CE1	2.50	0.46
1:A:2556:PRO:HB2	1:A:2563:PHE:CD1	2.50	0.46
1:C:92:LEU:CD2	1:C:92:LEU:H	1.96	0.46
1:C:2188:PHE:HD1	1:C:2191:LYS:HD3	1.81	0.46
1:C:2639:TRP:HA	1:C:2639:TRP:CE3	2.50	0.46
1:B:77:LYS:HZ2	1:B:77:LYS:N	2.05	0.46
1:B:317:GLU:O	1:B:353:TYR:N	2.48	0.46
1:B:462:LYS:HA	1:B:462:LYS:HD3	1.64	0.46
1:B:549:PHE:C	1:B:549:PHE:CD1	2.86	0.46
1:B:2216:CYS:SG	1:B:2646:VAL:CB	3.02	0.46
1:B:2571:LEU:O	1:B:2574:PHE:CB	2.56	0.46
1:B:2707:LYS:CD	1:B:2711:ASN:ND2	2.74	0.46
1:D:21:GLY:N	1:D:24:ASN:OD1	2.48	0.46
1:D:885:LEU:O	1:D:888:THR:CA	2.64	0.46
1:D:2203:ARG:N	1:D:2679:ARG:HH11	2.12	0.46
1:A:39:VAL:N	1:A:207:ASN:O	2.45	0.46
1:A:2200:ARG:CD	1:A:2662:TYR:CG	2.92	0.46
1:A:2276:TRP:HB3	1:A:2367:ILE:HD12	1.96	0.46
1:C:21:GLY:N	1:C:24:ASN:OD1	2.48	0.46
1:C:886:ARG:O	1:C:889:LYS:CA	2.63	0.46
1:C:2234:ASP:OD1	1:C:2234:ASP:N	2.46	0.46
1:C:2405:GLY:N	1:C:2408:VAL:HG23	2.30	0.46
1:C:2558:LYS:HA	1:C:2558:LYS:HD3	1.77	0.46
1:B:302:LEU:HG	1:B:367:ILE:HG22	1.95	0.46
1:B:504:ARG:HD3	2:B:2801:JYP:O7	2.15	0.46
1:B:2723:MET:SD	1:B:2727:ARG:HD2	2.55	0.46
1:D:8:PHE:CE2	1:D:176:VAL:HB	2.50	0.46
1:D:39:VAL:HB	1:D:207:ASN:HB2	1.96	0.46
1:D:567:TYR:HB3	1:D:570:ASN:HB3	1.96	0.46
1:D:646:PRO:CA	1:D:650:GLU:H	2.29	0.46
1:D:817:ASP:CA	1:D:878:PHE:C	2.84	0.46
1:A:55:ASP:O	1:A:125:HIS:NE2	2.48	0.46
1:A:504:ARG:HD3	2:A:2801:JYP:O7	2.15	0.46
1:A:562:HIS:ND1	1:A:562:HIS:O	2.49	0.46
1:A:751:ALA:O	1:A:755:ILE:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2578:ILE:HG23	1:A:2579:ILE:CD1	2.45	0.46
1:A:2663:VAL:HA	1:A:2666:MET:HB2	1.96	0.46
1:A:2691:GLU:OE1	1:A:2691:GLU:HA	2.15	0.46
1:A:2732:ARG:CB	1:A:2732:ARG:NH1	2.72	0.46
1:C:39:VAL:HB	1:C:207:ASN:HB2	1.96	0.46
1:C:646:PRO:CA	1:C:650:GLU:H	2.29	0.46
1:C:2696:ARG:HH22	1:D:2696:ARG:HH22	1.63	0.46
1:C:2707:LYS:CD	1:D:2706:MET:HB3	2.45	0.46
1:B:55:ASP:O	1:B:125:HIS:NE2	2.48	0.46
1:B:508:LYS:CD	1:B:570:ASN:HD21	2.29	0.46
1:B:1317:LYS:CA	1:B:1385:CYS:O	2.58	0.46
1:D:817:ASP:C	1:D:878:PHE:N	2.69	0.46
1:D:1209:GLY:CA	1:D:1259:ILE:C	2.83	0.46
1:D:1797:CYS:O	1:D:1801:LYS:N	2.39	0.46
1:D:1836:ASN:O	1:D:1840:GLN:N	2.33	0.46
1:D:2213:PRO:CD	1:D:2647:LEU:CD1	2.93	0.46
1:D:2365:LYS:HZ3	1:D:2395:HIS:HA	1.80	0.46
1:D:2578:ILE:HD12	1:D:2578:ILE:HA	1.65	0.46
1:D:2585:ILE:HD13	1:D:2585:ILE:HA	1.53	0.46
1:A:577:GLN:O	1:A:580:PHE:HD1	1.98	0.46
1:A:1085:ARG:C	1:A:1088:SER:H	2.18	0.46
1:A:1295:PHE:O	1:A:1299:ILE:N	2.44	0.46
1:A:1302:HIS:O	1:D:144:LYS:CB	2.64	0.46
1:A:2188:PHE:HD1	1:A:2191:LYS:HD3	1.81	0.46
1:A:2349:GLY:C	1:A:2351:GLN:H	2.12	0.46
1:A:2397:LEU:HD23	1:A:2397:LEU:HA	1.46	0.46
1:A:2453:TYR:HE1	1:A:2536:VAL:HG23	1.80	0.46
1:C:269:ARG:CB	2:C:2801:JYP:C2	2.72	0.46
1:C:317:GLU:O	1:C:353:TYR:N	2.48	0.46
1:C:446:ALA:HA	1:C:480:LEU:HD11	1.96	0.46
1:C:817:ASP:C	1:C:878:PHE:N	2.69	0.46
1:C:2039:SER:O	1:C:2043:TYR:N	2.46	0.46
1:C:2276:TRP:HB3	1:C:2367:ILE:HD12	1.96	0.46
1:C:2556:PRO:HB2	1:C:2563:PHE:CD1	2.50	0.46
1:B:1035:GLU:O	1:B:1039:GLY:N	2.49	0.46
1:B:2578:ILE:HG23	1:B:2579:ILE:CD1	2.45	0.46
1:B:2624:LYS:NZ	1:B:2624:LYS:CB	2.72	0.46
1:D:453:LEU:HA	1:D:521:LYS:HZ3	1.55	0.46
1:D:573:TYR:O	1:D:577:GLN:CD	2.52	0.46
1:D:2188:PHE:HD1	1:D:2191:LYS:HD3	1.81	0.46
1:D:2283:LEU:HD21	1:D:2360:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2250:LEU:HD22	1:A:2250:LEU:HA	1.41	0.46
1:C:2301:ARG:HG3	1:C:2303:GLY:H	1.80	0.46
1:C:2707:LYS:HD3	1:D:2706:MET:HB3	1.97	0.46
1:C:2719:LEU:C	1:C:2719:LEU:HD12	2.36	0.46
1:B:39:VAL:N	1:B:207:ASN:O	2.45	0.46
1:B:751:ALA:O	1:B:755:ILE:N	2.49	0.46
1:B:2639:TRP:HA	1:B:2639:TRP:CE3	2.50	0.46
1:B:2639:TRP:HA	1:B:2639:TRP:HE3	1.79	0.46
1:B:2680:ALA:O	1:B:2682:SER:N	2.45	0.46
1:B:2691:GLU:OE1	1:B:2691:GLU:HA	2.15	0.46
1:D:504:ARG:HD3	2:D:2801:JYP:O7	2.15	0.46
1:D:1035:GLU:O	1:D:1039:GLY:N	2.48	0.46
1:D:2203:ARG:H	1:D:2679:ARG:HH11	1.63	0.46
1:D:2423:ARG:C	1:D:2423:ARG:CD	2.84	0.46
1:D:2645:ILE:HA	1:D:2648:VAL:HG22	1.98	0.46
1:A:553:CYS:HA	1:A:556:CYS:SG	2.56	0.46
1:A:886:ARG:O	1:A:889:LYS:C	2.44	0.46
1:A:2352:PRO:HA	1:A:2355:PHE:CD2	2.51	0.46
1:A:2723:MET:SD	1:A:2727:ARG:HD2	2.55	0.46
1:C:8:PHE:CE2	1:C:176:VAL:HB	2.50	0.46
1:C:2698:LEU:HD23	1:C:2698:LEU:C	2.36	0.46
1:B:503:ASN:HB3	1:B:506:ARG:CB	2.46	0.46
1:B:1085:ARG:C	1:B:1088:SER:H	2.19	0.46
1:B:1806:ASN:O	1:B:1810:ASP:N	2.43	0.46
1:B:2719:LEU:HD12	1:B:2719:LEU:C	2.36	0.46
1:D:453:LEU:C	1:D:521:LYS:HD2	2.35	0.46
1:D:558:ARG:HA	1:D:561:ARG:HD3	1.98	0.46
1:D:562:HIS:ND1	1:D:562:HIS:O	2.49	0.46
1:D:2243:PHE:CZ	1:D:2638:MET:CA	2.98	0.46
1:D:2642:LEU:HD13	1:D:2642:LEU:H	1.81	0.46
1:D:2719:LEU:C	1:D:2719:LEU:HD12	2.36	0.46
1:D:2732:ARG:NH1	1:D:2732:ARG:CB	2.72	0.46
1:A:514:ASN:HD21	1:A:517:LYS:HD2	1.56	0.46
1:A:885:LEU:O	1:A:888:THR:CA	2.64	0.46
1:A:2201:LEU:HD12	1:A:2203:ARG:NH2	2.31	0.46
1:A:2406:LEU:C	1:A:2406:LEU:CD2	2.85	0.46
1:A:2642:LEU:HD13	1:A:2642:LEU:H	1.81	0.46
1:C:477:LEU:HD22	1:C:556:CYS:SG	2.56	0.46
1:C:497:VAL:CB	1:C:504:ARG:CZ	2.61	0.46
1:C:885:LEU:O	1:C:888:THR:CA	2.64	0.46
1:B:71:GLN:HA	1:B:74:LYS:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:886:ARG:O	1:B:889:LYS:CA	2.63	0.46
1:B:2556:PRO:HB2	1:B:2563:PHE:CD1	2.50	0.46
1:B:2590:ILE:HD12	1:B:2590:ILE:HA	1.72	0.46
1:D:503:ASN:HB3	1:D:506:ARG:CB	2.46	0.46
1:D:2406:LEU:C	1:D:2406:LEU:CD2	2.85	0.46
1:A:508:LYS:HD2	1:A:570:ASN:HD21	1.79	0.46
1:A:508:LYS:CD	1:A:570:ASN:HD21	2.28	0.46
1:A:2719:LEU:C	1:A:2719:LEU:HD12	2.36	0.46
1:C:2295:TYR:CD1	1:B:2532:LEU:HD22	2.51	0.46
1:B:885:LEU:O	1:B:888:THR:CA	2.64	0.46
1:D:317:GLU:O	1:D:353:TYR:N	2.48	0.46
1:D:522:LEU:HD22	1:D:522:LEU:HA	1.67	0.46
1:D:1085:ARG:C	1:D:1088:SER:H	2.19	0.46
1:D:1456:VAL:C	1:D:1507:PRO:O	2.47	0.46
1:D:2453:TYR:HE1	1:D:2536:VAL:HG23	1.80	0.46
1:D:2651:LYS:HE2	1:D:2651:LYS:HB2	1.70	0.46
1:D:2698:LEU:HD23	1:D:2698:LEU:C	2.36	0.46
1:D:2707:LYS:CD	1:D:2711:ASN:ND2	2.74	0.46
1:D:2723:MET:SD	1:D:2727:ARG:HD2	2.55	0.46
1:A:503:ASN:ND2	1:A:505:GLU:HB2	2.31	0.46
1:A:817:ASP:CA	1:A:878:PHE:C	2.84	0.46
1:A:1035:GLU:O	1:A:1039:GLY:N	2.49	0.46
1:C:503:ASN:ND2	1:C:505:GLU:HB2	2.31	0.46
1:C:508:LYS:CD	1:C:570:ASN:HD21	2.28	0.46
1:C:2203:ARG:H	1:C:2679:ARG:HH11	1.63	0.46
1:C:2583:ASN:ND2	1:D:2586:PHE:CD1	2.83	0.46
1:B:8:PHE:CE2	1:B:176:VAL:HB	2.50	0.46
1:B:1295:PHE:O	1:B:1299:ILE:N	2.44	0.46
1:B:1808:VAL:O	1:B:1812:ILE:N	2.40	0.46
1:D:886:ARG:O	1:D:889:LYS:C	2.44	0.46
1:D:2453:TYR:O	1:D:2456:SER:OG	2.26	0.46
1:A:71:GLN:HA	1:A:74:LYS:HB2	1.96	0.45
1:A:477:LEU:HD22	1:A:556:CYS:SG	2.56	0.45
1:A:523:LEU:C	1:A:523:LEU:CD2	2.85	0.45
1:A:2528:CYS:HA	1:D:2558:LYS:HE3	1.98	0.45
1:A:2586:PHE:CG	1:D:2583:ASN:ND2	2.83	0.45
1:A:2612:PHE:CG	1:A:2638:MET:SD	3.09	0.45
1:C:486:GLY:HA3	1:C:510:MET:CE	2.41	0.45
1:C:2578:ILE:HG23	1:C:2579:ILE:CD1	2.45	0.45
1:C:2706:MET:C	1:B:2707:LYS:HE2	2.36	0.45
1:C:2710:THR:HB	1:B:2707:LYS:HZ1	0.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:477:LEU:HD22	1:B:556:CYS:SG	2.56	0.45
1:B:516:LEU:H	1:B:516:LEU:CD1	2.14	0.45
1:B:553:CYS:HA	1:B:556:CYS:SG	2.56	0.45
1:B:573:TYR:O	1:B:577:GLN:CD	2.52	0.45
1:B:2612:PHE:CG	1:B:2638:MET:SD	3.09	0.45
1:B:2645:ILE:HA	1:B:2648:VAL:HG22	1.98	0.45
1:D:88:LEU:CD1	1:D:88:LEU:N	2.72	0.45
1:D:91:LYS:HA	1:D:94:HIS:HD2	1.81	0.45
1:D:477:LEU:HD22	1:D:556:CYS:SG	2.56	0.45
1:D:886:ARG:O	1:D:889:LYS:CA	2.63	0.45
1:D:2571:LEU:O	1:D:2574:PHE:CB	2.56	0.45
1:D:2620:LYS:O	1:D:2624:LYS:HG2	2.17	0.45
1:A:127:LYS:O	1:A:441:ARG:CG	2.65	0.45
1:A:646:PRO:CA	1:A:650:GLU:H	2.29	0.45
1:A:2698:LEU:HD23	1:A:2698:LEU:C	2.36	0.45
1:A:2706:MET:CA	1:D:2707:LYS:HE2	2.45	0.45
1:C:503:ASN:HB3	1:C:506:ARG:CB	2.46	0.45
1:C:2251:PHE:CD1	1:C:2251:PHE:O	2.70	0.45
1:C:2530:THR:HG23	1:C:2534:CYS:HB3	1.98	0.45
1:B:562:HIS:ND1	1:B:562:HIS:O	2.49	0.45
1:B:2251:PHE:CD1	1:B:2251:PHE:O	2.70	0.45
1:B:2352:PRO:HA	1:B:2355:PHE:CD2	2.51	0.45
1:D:127:LYS:O	1:D:441:ARG:CG	2.65	0.45
1:D:2352:PRO:HA	1:D:2355:PHE:CD2	2.51	0.45
1:A:108:ARG:NH2	1:A:111:LEU:HD12	2.32	0.45
1:A:503:ASN:HB3	1:A:506:ARG:CB	2.46	0.45
1:A:510:MET:O	1:A:515:ILE:HG22	2.08	0.45
1:A:558:ARG:HA	1:A:561:ARG:HD3	1.98	0.45
1:A:817:ASP:C	1:A:878:PHE:N	2.69	0.45
1:C:751:ALA:O	1:C:755:ILE:N	2.49	0.45
1:C:1085:ARG:C	1:C:1088:SER:H	2.19	0.45
1:C:2243:PHE:CZ	1:C:2638:MET:CA	2.98	0.45
1:B:318:VAL:HA	1:B:353:TYR:HB2	1.98	0.45
1:B:817:ASP:C	1:B:878:PHE:N	2.69	0.45
1:B:1107:GLN:O	1:B:1108:ASP:C	2.53	0.45
1:B:2196:ILE:N	1:B:2208:ILE:O	2.47	0.45
1:B:2388:LEU:CD2	1:B:2388:LEU:N	2.73	0.45
1:D:39:VAL:N	1:D:207:ASN:O	2.45	0.45
1:D:99:GLU:HG2	1:D:102:GLN:NE2	2.30	0.45
1:D:503:ASN:ND2	1:D:505:GLU:HB2	2.31	0.45
1:D:508:LYS:CD	1:D:570:ASN:HD21	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:751:ALA:O	1:D:755:ILE:N	2.49	0.45
1:D:2345:ILE:CD1	1:D:2356:LEU:CG	2.80	0.45
1:D:2365:LYS:HE2	1:D:2398:TYR:CB	2.37	0.45
1:D:2375:ASN:ND2	1:D:2375:ASN:N	2.65	0.45
1:D:2612:PHE:CG	1:D:2638:MET:SD	3.09	0.45
1:D:2723:MET:SD	1:D:2727:ARG:NH1	2.85	0.45
1:A:441:ARG:NH1	1:A:441:ARG:CG	2.72	0.45
1:C:91:LYS:HA	1:C:94:HIS:HD2	1.81	0.45
1:C:553:CYS:HA	1:C:556:CYS:SG	2.56	0.45
1:C:562:HIS:ND1	1:C:562:HIS:O	2.49	0.45
1:C:638:CYS:C	1:C:639:VAL:O	2.55	0.45
1:C:2401:ILE:HG21	1:C:2416:LEU:HD13	0.59	0.45
1:C:2730:LYS:C	1:C:2730:LYS:CD	2.85	0.45
1:B:524:GLN:HA	1:B:527:PHE:CD2	2.45	0.45
1:B:2039:SER:O	1:B:2043:TYR:N	2.46	0.45
1:B:2188:PHE:HD1	1:B:2191:LYS:HD3	1.81	0.45
1:B:2250:LEU:HD13	1:B:2250:LEU:C	2.28	0.45
1:B:2406:LEU:C	1:B:2406:LEU:CD2	2.85	0.45
1:B:2453:TYR:HE1	1:B:2536:VAL:HG23	1.80	0.45
1:B:2698:LEU:HD23	1:B:2698:LEU:C	2.36	0.45
1:D:256:HIS:HB3	1:D:261:HIS:HD2	1.81	0.45
1:D:273:THR:OG1	1:D:274:SER:N	2.49	0.45
1:D:449:ALA:C	1:D:453:LEU:CG	2.59	0.45
1:D:1619:VAL:O	1:D:1621:ALA:C	2.50	0.45
1:D:2196:ILE:N	1:D:2208:ILE:O	2.47	0.45
1:D:2210:PHE:HE2	1:D:2647:LEU:CG	2.29	0.45
1:D:2349:GLY:C	1:D:2351:GLN:H	2.12	0.45
1:D:2730:LYS:C	1:D:2730:LYS:CD	2.85	0.45
1:A:72:PHE:CE1	1:A:93:HIS:CD2	3.05	0.45
1:A:2423:ARG:C	1:A:2423:ARG:CD	2.84	0.45
1:A:2453:TYR:O	1:A:2456:SER:OG	2.26	0.45
1:A:2706:MET:HB3	1:D:2707:LYS:CG	2.46	0.45
1:C:273:THR:OG1	1:C:274:SER:N	2.49	0.45
1:C:2203:ARG:HE	1:C:2203:ARG:HB2	1.71	0.45
1:C:2406:LEU:CD2	1:C:2406:LEU:C	2.85	0.45
1:B:108:ARG:NH2	1:B:111:LEU:HD12	2.32	0.45
1:D:577:GLN:O	1:D:580:PHE:HD1	1.98	0.45
1:D:638:CYS:O	1:D:642:ASN:N	2.50	0.45
1:A:2620:LYS:O	1:A:2624:LYS:HG2	2.17	0.45
1:A:2639:TRP:HA	1:A:2639:TRP:CE3	2.50	0.45
1:C:72:PHE:CE1	1:C:93:HIS:CD2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2370:MET:HE3	1:C:2370:MET:CA	2.39	0.45
1:C:2441:ILE:HD12	1:C:2441:ILE:HA	1.77	0.45
1:B:72:PHE:CE1	1:B:93:HIS:CD2	3.05	0.45
1:B:2210:PHE:HE2	1:B:2647:LEU:CG	2.29	0.45
1:B:2276:TRP:HB3	1:B:2367:ILE:HD12	1.96	0.45
1:B:2279:ILE:HD13	1:B:2279:ILE:HA	1.71	0.45
1:D:97:ASP:HA	1:D:100:LYS:HG2	1.99	0.45
1:D:2251:PHE:CD1	1:D:2251:PHE:O	2.70	0.45
1:D:2588:VAL:O	1:D:2592:THR:OG1	2.29	0.45
1:D:2691:GLU:OE1	1:D:2691:GLU:HA	2.15	0.45
1:A:2245:LEU:H	1:A:2245:LEU:HG	1.57	0.45
1:A:2251:PHE:CD1	1:A:2251:PHE:O	2.70	0.45
1:A:2398:TYR:O	1:A:2398:TYR:CD1	2.70	0.45
1:C:514:ASN:C	1:C:516:LEU:H	2.05	0.45
1:C:1107:GLN:O	1:C:1108:ASP:C	2.53	0.45
1:C:2696:ARG:NH1	1:B:2696:ARG:HE	2.09	0.45
1:C:2706:MET:HB3	1:B:2707:LYS:CD	2.45	0.45
1:B:11:ILE:HD12	1:B:62:PRO:HG3	1.99	0.45
1:B:97:ASP:HA	1:B:100:LYS:HG2	1.98	0.45
1:B:2448:ALA:O	1:B:2452:VAL:N	2.39	0.45
1:D:553:CYS:HA	1:D:556:CYS:SG	2.56	0.45
1:A:554:ARG:CD	1:A:554:ARG:C	2.85	0.45
1:A:646:PRO:C	1:A:648:THR:H	1.72	0.45
1:A:1792:LEU:O	1:A:1797:CYS:N	2.44	0.45
1:A:2210:PHE:HE2	1:A:2647:LEU:CG	2.29	0.45
1:A:2401:ILE:CD1	1:A:2401:ILE:C	2.85	0.45
1:A:2558:LYS:HA	1:A:2558:LYS:HD3	1.77	0.45
1:A:2621:PHE:HA	1:A:2624:LYS:CG	2.47	0.45
1:A:2639:TRP:CE3	1:A:2639:TRP:O	2.70	0.45
1:A:2653:SER:OG	1:A:2664:ALA:HB2	2.16	0.45
1:A:2723:MET:SD	1:A:2727:ARG:NH1	2.85	0.45
1:C:2612:PHE:CG	1:C:2638:MET:SD	3.09	0.45
1:C:2620:LYS:O	1:C:2624:LYS:HG2	2.17	0.45
1:C:2677:ARG:HH21	1:D:2623:ASN:CB	2.29	0.45
1:B:1209:GLY:CA	1:B:1259:ILE:C	2.83	0.45
1:B:2530:THR:HG23	1:B:2534:CYS:HB3	1.98	0.45
1:D:554:ARG:CD	1:D:554:ARG:C	2.85	0.45
1:D:638:CYS:C	1:D:639:VAL:O	2.55	0.45
1:D:2285:VAL:O	1:D:2287:MET:CA	2.64	0.45
1:D:2354:LEU:C	1:D:2354:LEU:CD1	2.85	0.45
1:D:2530:THR:HG23	1:D:2534:CYS:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:CYS:O	1:A:642:ASN:N	2.50	0.45
1:A:2365:LYS:HE3	1:A:2395:HIS:O	2.16	0.45
1:A:2729:GLN:O	1:A:2732:ARG:N	2.50	0.45
1:C:99:GLU:HG2	1:C:102:GLN:NE2	2.30	0.45
1:C:108:ARG:NH2	1:C:111:LEU:HD12	2.32	0.45
1:C:318:VAL:HA	1:C:353:TYR:HB2	1.98	0.45
1:C:554:ARG:C	1:C:554:ARG:CD	2.85	0.45
1:C:567:TYR:HB3	1:C:570:ASN:HB3	1.96	0.45
1:C:577:GLN:O	1:C:580:PHE:HD1	1.98	0.45
1:C:2210:PHE:HE2	1:C:2647:LEU:CG	2.29	0.45
1:C:2278:SER:HB2	1:C:2281:PHE:HZ	1.60	0.45
1:C:2365:LYS:HD2	1:C:2368:PHE:HB3	1.99	0.45
1:C:2398:TYR:O	1:C:2398:TYR:CD1	2.70	0.45
1:C:2639:TRP:CE3	1:C:2639:TRP:O	2.70	0.45
1:C:2696:ARG:HH22	1:B:2696:ARG:NH2	2.14	0.45
1:B:558:ARG:HA	1:B:561:ARG:HD3	1.98	0.45
1:B:2361:ASN:ND2	1:B:2401:ILE:CD1	2.50	0.45
1:B:2398:TYR:CD1	1:B:2398:TYR:O	2.70	0.45
1:B:2412:PHE:C	1:B:2414:SER:H	2.14	0.45
1:B:2441:ILE:O	1:B:2444:THR:HG22	2.17	0.45
1:B:2649:LYS:C	1:B:2650:VAL:CG2	2.54	0.45
1:B:2698:LEU:C	1:B:2698:LEU:CD2	2.86	0.45
1:D:2285:VAL:CG2	1:D:2417:LEU:CD1	2.61	0.45
1:D:2348:VAL:CB	1:D:2353:THR:HG22	2.31	0.45
1:D:2369:LEU:HG	1:D:2370:MET:HE3	1.99	0.45
1:A:2213:PRO:CD	1:A:2647:LEU:CD1	2.93	0.45
1:A:2651:LYS:HE2	1:A:2652:ASP:N	2.32	0.45
1:C:143:GLU:OE2	1:C:145:ASN:ND2	2.37	0.45
1:C:2197:GLU:HA	1:C:2207:GLN:HA	1.99	0.45
1:C:2345:ILE:HD12	1:C:2357:LEU:HD23	1.99	0.45
1:B:77:LYS:HB2	1:B:78:PRO:CD	2.47	0.45
1:B:256:HIS:HB3	1:B:261:HIS:HD2	1.82	0.45
1:B:578:PHE:CD1	1:B:578:PHE:O	2.70	0.45
1:B:646:PRO:CA	1:B:650:GLU:H	2.29	0.45
1:B:2401:ILE:CD1	1:B:2401:ILE:C	2.85	0.45
1:B:2621:PHE:HA	1:B:2624:LYS:CG	2.47	0.45
1:D:520:PHE:CE1	1:D:523:LEU:HD11	2.45	0.45
1:D:2653:SER:OG	1:D:2664:ALA:HB2	2.16	0.45
1:A:11:ILE:HD12	1:A:62:PRO:HG3	1.99	0.44
1:A:2530:THR:HG23	1:A:2534:CYS:HB3	1.98	0.44
1:A:2645:ILE:HA	1:A:2648:VAL:HG22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:256:HIS:HB3	1:C:261:HIS:HD2	1.81	0.44
1:C:578:PHE:CD1	1:C:578:PHE:O	2.70	0.44
1:C:1302:HIS:C	1:B:144:LYS:CB	2.80	0.44
1:C:2201:LEU:HB3	1:C:2202:ASP:H	1.56	0.44
1:C:2285:VAL:O	1:C:2287:MET:CA	2.64	0.44
1:B:379:ASP:OD2	1:B:379:ASP:N	2.50	0.44
1:B:554:ARG:C	1:B:554:ARG:CD	2.85	0.44
1:B:2188:PHE:HA	1:B:2191:LYS:HD3	1.99	0.44
1:B:2201:LEU:HA	1:B:2201:LEU:HD22	1.34	0.44
1:B:2239:LYS:HZ2	1:B:2677:ARG:HA	1.81	0.44
1:B:2729:GLN:O	1:B:2732:ARG:N	2.50	0.44
1:D:77:LYS:HB2	1:D:78:PRO:CD	2.47	0.44
1:D:2215:ILE:O	1:D:2254:MET:HE1	2.17	0.44
1:A:578:PHE:CD1	1:A:578:PHE:O	2.70	0.44
1:A:584:GLN:HE21	1:A:585:ILE:HG22	1.82	0.44
1:A:1107:GLN:O	1:A:1108:ASP:C	2.53	0.44
1:A:2216:CYS:SG	1:A:2646:VAL:CB	3.02	0.44
1:A:2698:LEU:C	1:A:2698:LEU:CD2	2.86	0.44
1:C:817:ASP:CA	1:C:878:PHE:C	2.84	0.44
1:C:2196:ILE:N	1:C:2208:ILE:O	2.47	0.44
1:C:2365:LYS:HE3	1:C:2395:HIS:O	2.16	0.44
1:C:2698:LEU:C	1:C:2698:LEU:CD2	2.85	0.44
1:B:503:ASN:ND2	1:B:505:GLU:HB2	2.31	0.44
1:B:638:CYS:C	1:B:639:VAL:O	2.55	0.44
1:B:2345:ILE:CD1	1:B:2357:LEU:CD2	2.95	0.44
1:D:72:PHE:CE1	1:D:93:HIS:CD2	3.05	0.44
1:D:578:PHE:CD1	1:D:578:PHE:O	2.70	0.44
1:D:2197:GLU:HA	1:D:2207:GLN:HA	1.99	0.44
1:D:2729:GLN:O	1:D:2732:ARG:N	2.50	0.44
1:A:92:LEU:H	1:A:92:LEU:HD13	1.79	0.44
1:A:318:VAL:HA	1:A:353:TYR:HB2	1.98	0.44
1:A:2285:VAL:CG1	1:A:2286:LEU:H	2.24	0.44
1:C:1806:ASN:O	1:C:1810:ASP:N	2.43	0.44
1:C:2201:LEU:HD12	1:C:2203:ARG:NH2	2.31	0.44
1:C:2352:PRO:HA	1:C:2355:PHE:CD2	2.51	0.44
1:C:2375:ASN:ND2	1:C:2375:ASN:N	2.65	0.44
1:C:2448:ALA:O	1:C:2452:VAL:N	2.39	0.44
1:C:2645:ILE:HA	1:C:2648:VAL:HG22	1.98	0.44
1:B:2285:VAL:O	1:B:2286:LEU:C	2.54	0.44
1:B:2620:LYS:O	1:B:2624:LYS:HG2	2.16	0.44
1:D:507:GLN:CG	1:D:567:TYR:CE1	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2398:TYR:CD1	1:D:2398:TYR:O	2.70	0.44
1:A:273:THR:OG1	1:A:274:SER:N	2.49	0.44
1:C:74:LYS:CE	1:C:74:LYS:CA	2.85	0.44
1:C:92:LEU:H	1:C:92:LEU:HD13	1.79	0.44
1:C:520:PHE:CE1	1:C:523:LEU:HD11	2.45	0.44
1:C:2642:LEU:HD13	1:C:2642:LEU:H	1.81	0.44
1:B:638:CYS:O	1:B:642:ASN:N	2.50	0.44
1:B:2201:LEU:HA	1:B:2662:TYR:OH	2.15	0.44
1:B:2639:TRP:CE3	1:B:2639:TRP:O	2.70	0.44
1:B:2653:SER:OG	1:B:2664:ALA:HB2	2.16	0.44
1:D:2572:LEU:HD23	1:D:2572:LEU:HA	1.73	0.44
1:A:2345:ILE:CD1	1:A:2357:LEU:CD2	2.95	0.44
1:A:2559:GLU:OE2	1:A:2562:LEU:CG	2.47	0.44
1:A:2576:MET:HE2	1:A:2580:ILE:CD1	2.44	0.44
1:C:2272:ASN:O	1:C:2276:TRP:HD1	1.79	0.44
1:C:2441:ILE:O	1:C:2444:THR:HG22	2.17	0.44
1:C:2729:GLN:O	1:C:2732:ARG:N	2.50	0.44
1:B:523:LEU:C	1:B:523:LEU:CD2	2.85	0.44
1:B:584:GLN:HE21	1:B:585:ILE:HG22	1.82	0.44
1:B:2285:VAL:O	1:B:2287:MET:CA	2.64	0.44
1:B:2360:PHE:O	1:B:2364:ASN:N	2.38	0.44
1:B:2365:LYS:HD2	1:B:2368:PHE:HB3	1.99	0.44
1:D:516:LEU:H	1:D:516:LEU:CD1	2.14	0.44
1:D:2651:LYS:HE2	1:D:2652:ASP:N	2.32	0.44
1:A:638:CYS:O	1:A:639:VAL:O	2.36	0.44
1:A:2585:ILE:HA	1:A:2585:ILE:HD13	1.53	0.44
1:C:77:LYS:HZ2	1:C:77:LYS:N	2.06	0.44
1:C:127:LYS:O	1:C:441:ARG:CG	2.65	0.44
1:C:2621:PHE:HA	1:C:2624:LYS:CG	2.47	0.44
1:C:2735:LEU:HD22	1:C:2735:LEU:C	2.35	0.44
1:B:2258:LYS:HA	1:B:2258:LYS:HD2	1.77	0.44
1:D:77:LYS:HZ2	1:D:77:LYS:N	2.06	0.44
1:D:460:LEU:HD22	1:D:460:LEU:HA	1.62	0.44
1:D:510:MET:C	1:D:515:ILE:CG2	2.81	0.44
1:D:1072:TYR:O	1:D:1073:PRO:C	2.55	0.44
1:D:2345:ILE:CD1	1:D:2357:LEU:CD2	2.95	0.44
1:D:2345:ILE:HD12	1:D:2357:LEU:HD23	1.99	0.44
1:D:2639:TRP:CE3	1:D:2639:TRP:O	2.70	0.44
1:D:2726:GLN:N	1:D:2726:GLN:CD	2.71	0.44
1:A:91:LYS:HA	1:A:94:HIS:HD2	1.81	0.44
1:A:462:LYS:HD3	1:A:462:LYS:HA	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1808:VAL:O	1:A:1812:ILE:N	2.40	0.44
1:A:2354:LEU:C	1:A:2354:LEU:CD1	2.85	0.44
1:A:2365:LYS:HZ1	1:A:2368:PHE:HD2	1.55	0.44
1:A:2441:ILE:O	1:A:2444:THR:HG22	2.17	0.44
1:A:2707:LYS:CD	1:A:2711:ASN:ND2	2.74	0.44
1:C:441:ARG:NH1	1:C:441:ARG:CB	2.81	0.44
1:C:510:MET:O	1:C:515:ILE:HG22	2.08	0.44
1:C:574:ILE:HG13	1:C:575:ALA:N	2.33	0.44
1:C:2345:ILE:CD1	1:C:2356:LEU:CG	2.80	0.44
1:C:2738:HIS:O	1:C:2738:HIS:CG	2.70	0.44
1:B:2345:ILE:HD12	1:B:2357:LEU:HD23	1.99	0.44
1:B:2566:ARG:C	1:B:2566:ARG:NE	2.71	0.44
1:B:2642:LEU:HD13	1:B:2642:LEU:H	1.81	0.44
1:D:460:LEU:C	1:D:460:LEU:CD1	2.85	0.44
1:D:2188:PHE:HA	1:D:2191:LYS:HD3	1.99	0.44
1:D:2365:LYS:HD2	1:D:2368:PHE:HB3	1.99	0.44
1:D:2698:LEU:C	1:D:2698:LEU:CD2	2.85	0.44
1:A:256:HIS:HB3	1:A:261:HIS:HD2	1.81	0.44
1:A:1072:TYR:O	1:A:1073:PRO:C	2.55	0.44
1:A:1806:ASN:O	1:A:1810:ASP:N	2.43	0.44
1:A:2197:GLU:HA	1:A:2207:GLN:HA	1.99	0.44
1:A:2285:VAL:O	1:A:2287:MET:CA	2.64	0.44
1:C:11:ILE:HD12	1:C:62:PRO:HG3	1.99	0.44
1:C:13:ASP:HB2	1:C:60:LEU:HD23	2.00	0.44
1:C:97:ASP:HA	1:C:100:LYS:HG2	1.99	0.44
1:C:558:ARG:HA	1:C:561:ARG:HD3	1.98	0.44
1:C:2188:PHE:HA	1:C:2191:LYS:HD3	1.99	0.44
1:C:2222:GLU:H	1:C:2222:GLU:HG3	1.59	0.44
1:C:2250:LEU:HA	1:C:2250:LEU:HD22	1.41	0.44
1:C:2423:ARG:C	1:C:2423:ARG:CD	2.84	0.44
1:B:45:ASP:HB2	1:B:48:ASN:H	1.83	0.44
1:B:72:PHE:CE1	1:B:93:HIS:CB	2.86	0.44
1:B:2727:ARG:NE	1:B:2727:ARG:CA	2.73	0.44
1:B:2728:LYS:O	1:B:2731:GLN:HB2	2.18	0.44
1:D:45:ASP:HB2	1:D:48:ASN:HB2	1.99	0.44
1:D:574:ILE:HG13	1:D:575:ALA:N	2.33	0.44
1:D:2278:SER:HB2	1:D:2281:PHE:HZ	1.60	0.44
1:D:2576:MET:HE1	1:D:2580:ILE:CD1	2.44	0.44
1:A:2278:SER:O	1:A:2281:PHE:CZ	2.58	0.44
1:A:2280:SER:OG	1:A:2281:PHE:N	2.51	0.44
1:A:2365:LYS:HE2	1:A:2398:TYR:CB	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2584:LEU:HD23	1:A:2584:LEU:HA	1.68	0.44
1:C:45:ASP:HB2	1:C:48:ASN:HB2	1.99	0.44
1:C:265:ARG:NE	1:C:265:ARG:CA	2.70	0.44
1:C:269:ARG:HD3	1:C:272:ALA:CB	2.48	0.44
1:C:355:LEU:HD22	1:C:418:ILE:HB	2.00	0.44
1:C:1842:SER:O	1:C:1846:ARG:N	2.41	0.44
1:C:2345:ILE:CD1	1:C:2357:LEU:CD2	2.95	0.44
1:C:2622:ASP:CG	1:C:2628:PHE:CD1	2.74	0.44
1:B:84:THR:HB	1:B:85:ASP:H	1.66	0.44
1:B:91:LYS:HA	1:B:94:HIS:HD2	1.81	0.44
1:B:273:THR:OG1	1:B:274:SER:N	2.49	0.44
1:B:1072:TYR:O	1:B:1073:PRO:C	2.55	0.44
1:B:2272:ASN:CG	1:B:2276:TRP:HZ2	2.17	0.44
1:B:2578:ILE:HG23	1:B:2579:ILE:CG1	2.48	0.44
1:B:2651:LYS:HE2	1:B:2652:ASP:N	2.32	0.44
1:D:194:HIS:N	1:D:210:ASN:O	2.36	0.44
1:D:1172:ASN:O	1:D:1176:VAL:N	2.51	0.44
1:D:1791:SER:O	1:D:1795:VAL:N	2.37	0.44
1:D:2280:SER:OG	1:D:2281:PHE:N	2.51	0.44
1:D:2370:MET:HA	1:D:2370:MET:HE2	1.94	0.44
1:D:2566:ARG:C	1:D:2566:ARG:NE	2.71	0.44
1:A:97:ASP:HA	1:A:100:LYS:HG2	1.99	0.43
1:A:564:GLN:CA	1:A:574:ILE:HD12	2.47	0.43
1:A:638:CYS:C	1:A:639:VAL:O	2.55	0.43
1:A:2240:ILE:C	1:A:2242:ASP:N	2.70	0.43
1:A:2707:LYS:CD	1:A:2711:ASN:HD21	2.19	0.43
1:C:638:CYS:O	1:C:642:ASN:N	2.50	0.43
1:C:2354:LEU:C	1:C:2354:LEU:CD1	2.85	0.43
1:C:2632:ILE:H	1:C:2632:ILE:HG13	1.39	0.43
1:C:2651:LYS:HE2	1:C:2652:ASP:N	2.32	0.43
1:C:2653:SER:OG	1:C:2664:ALA:HB2	2.16	0.43
1:B:45:ASP:HB2	1:B:48:ASN:HB2	1.99	0.43
1:B:69:GLN:CD	1:B:100:LYS:HD2	1.90	0.43
1:B:760:ASP:C	1:B:762:ASP:N	2.68	0.43
1:B:1172:ASN:O	1:B:1176:VAL:N	2.51	0.43
1:B:2369:LEU:HG	1:B:2370:MET:HE3	2.00	0.43
1:D:108:ARG:NH2	1:D:111:LEU:HD12	2.32	0.43
1:D:318:VAL:HA	1:D:353:TYR:HB2	1.98	0.43
1:D:355:LEU:HD22	1:D:418:ILE:HB	2.00	0.43
1:D:1871:ILE:O	1:D:1875:VAL:N	2.47	0.43
1:D:2441:ILE:O	1:D:2444:THR:HG22	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2621:PHE:HA	1:D:2624:LYS:CG	2.47	0.43
1:D:2735:LEU:HD22	1:D:2735:LEU:C	2.34	0.43
1:A:1619:VAL:O	1:A:1621:ALA:C	2.50	0.43
1:A:2188:PHE:HA	1:A:2191:LYS:HD3	1.99	0.43
1:A:2576:MET:HE2	1:A:2580:ILE:HD12	1.99	0.43
1:A:2699:GLN:HB3	1:B:2699:GLN:OE1	2.05	0.43
1:A:2728:LYS:O	1:A:2731:GLN:HB2	2.18	0.43
1:C:584:GLN:HE21	1:C:585:ILE:HG22	1.82	0.43
1:C:1072:TYR:O	1:C:1073:PRO:C	2.55	0.43
1:C:1072:TYR:O	1:C:1075:LEU:C	2.47	0.43
1:C:2366:ILE:HD13	1:C:2366:ILE:HA	1.57	0.43
1:B:2103:ARG:O	1:B:2105:ASP:N	2.39	0.43
1:B:2199:VAL:HG21	1:B:2680:ALA:HB2	2.00	0.43
1:B:2558:LYS:HA	1:B:2558:LYS:HD3	1.77	0.43
1:D:2728:LYS:O	1:D:2731:GLN:HB2	2.18	0.43
1:A:460:LEU:HA	1:A:460:LEU:HD22	1.62	0.43
1:A:2278:SER:HB2	1:A:2281:PHE:HZ	1.60	0.43
1:A:2578:ILE:HG23	1:A:2579:ILE:CG1	2.48	0.43
1:C:443:LEU:C	1:C:443:LEU:CD2	2.84	0.43
1:C:2258:LYS:HD2	1:C:2261:ARG:HG3	2.01	0.43
1:C:2280:SER:OG	1:C:2281:PHE:N	2.51	0.43
1:C:2728:LYS:O	1:C:2731:GLN:HB2	2.18	0.43
1:B:475:LYS:HA	1:B:552:ILE:HD13	2.00	0.43
1:B:1292:VAL:O	1:B:1296:VAL:N	2.51	0.43
1:B:2258:LYS:HD2	1:B:2261:ARG:HG3	2.01	0.43
1:B:2280:SER:OG	1:B:2281:PHE:N	2.51	0.43
1:D:2370:MET:CE	1:D:2370:MET:CA	2.85	0.43
1:D:2412:PHE:HD1	1:D:2415:LEU:CD1	2.31	0.43
1:A:475:LYS:HA	1:A:552:ILE:HD13	2.00	0.43
1:A:2566:ARG:NE	1:A:2566:ARG:C	2.71	0.43
1:A:2654:THR:C	1:A:2657:THR:HG22	2.27	0.43
1:C:523:LEU:HD22	1:C:527:PHE:HB3	2.01	0.43
1:C:2566:ARG:C	1:C:2566:ARG:NE	2.71	0.43
1:B:15:CYS:HA	1:B:223:PHE:H	1.84	0.43
1:B:355:LEU:HD22	1:B:418:ILE:HB	2.00	0.43
1:B:1085:ARG:O	1:B:1088:SER:N	2.47	0.43
1:D:13:ASP:HB2	1:D:60:LEU:HD23	2.00	0.43
1:D:524:GLN:HA	1:D:527:PHE:CD2	2.45	0.43
1:D:2276:TRP:HB3	1:D:2367:ILE:HD12	1.96	0.43
1:A:15:CYS:HA	1:A:223:PHE:H	1.84	0.43
1:A:2026:ASN:O	1:A:2029:ASN:N	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:523:LEU:HD22	1:B:527:PHE:HB3	2.01	0.43
1:B:2366:ILE:HA	1:B:2366:ILE:HD13	1.57	0.43
1:B:2384:ARG:O	1:B:2388:LEU:HD23	2.06	0.43
1:D:401:SER:N	1:D:428:GLU:OE2	2.52	0.43
1:D:584:GLN:HE21	1:D:585:ILE:HG22	1.82	0.43
1:D:2621:PHE:CA	1:D:2624:LYS:HG2	2.48	0.43
1:D:2707:LYS:CD	1:D:2711:ASN:HD21	2.19	0.43
1:A:8:PHE:CE2	1:A:115:ILE:HB	2.54	0.43
1:A:45:ASP:HB2	1:A:48:ASN:HB2	1.99	0.43
1:A:401:SER:N	1:A:428:GLU:OE2	2.52	0.43
1:A:523:LEU:HD22	1:A:527:PHE:HB3	2.01	0.43
1:A:574:ILE:HG13	1:A:575:ALA:N	2.33	0.43
1:A:1172:ASN:O	1:A:1176:VAL:N	2.51	0.43
1:A:2104:HIS:O	1:A:2105:ASP:C	2.56	0.43
1:A:2201:LEU:HA	1:A:2201:LEU:HD22	1.34	0.43
1:A:2285:VAL:CG2	1:A:2417:LEU:CD1	2.61	0.43
1:A:2707:LYS:HD3	1:B:2706:MET:HB3	2.01	0.43
1:C:2104:HIS:O	1:C:2105:ASP:C	2.56	0.43
1:C:2656:TYR:O	1:C:2660:GLU:HG3	2.18	0.43
1:B:13:ASP:HB2	1:B:60:LEU:HD23	2.00	0.43
1:B:401:SER:N	1:B:428:GLU:OE2	2.52	0.43
1:B:574:ILE:HG13	1:B:575:ALA:N	2.33	0.43
1:B:638:CYS:O	1:B:639:VAL:O	2.36	0.43
1:B:2239:LYS:HG2	1:B:2240:ILE:CB	2.47	0.43
1:B:2354:LEU:C	1:B:2354:LEU:CD1	2.85	0.43
1:B:2554:ARG:NE	1:B:2554:ARG:HA	2.34	0.43
1:D:475:LYS:HA	1:D:552:ILE:HD13	2.00	0.43
1:D:1806:ASN:O	1:D:1810:ASP:N	2.43	0.43
1:D:2285:VAL:CB	1:D:2417:LEU:HD13	2.43	0.43
1:D:2397:LEU:HD23	1:D:2397:LEU:HA	1.46	0.43
1:A:269:ARG:HD3	1:A:272:ALA:CB	2.48	0.43
1:A:2365:LYS:HD2	1:A:2368:PHE:HB3	1.99	0.43
1:A:2738:HIS:O	1:A:2738:HIS:CG	2.70	0.43
1:C:2239:LYS:HG2	1:C:2240:ILE:CB	2.47	0.43
1:C:2597:ARG:O	1:C:2600:LYS:N	2.50	0.43
1:C:2661:SER:HA	1:C:2664:ALA:HB3	2.01	0.43
1:B:127:LYS:O	1:B:441:ARG:CG	2.65	0.43
1:B:2104:HIS:O	1:B:2105:ASP:C	2.56	0.43
1:B:2350:LEU:N	1:B:2350:LEU:HD22	2.34	0.43
1:B:2654:THR:C	1:B:2657:THR:HG22	2.27	0.43
1:B:2732:ARG:CB	1:B:2732:ARG:NH1	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:45:ASP:HB2	1:D:48:ASN:H	1.83	0.43
1:D:523:LEU:HD22	1:D:527:PHE:HB3	2.01	0.43
1:D:1292:VAL:O	1:D:1296:VAL:N	2.51	0.43
1:D:2201:LEU:HB3	1:D:2202:ASP:H	1.56	0.43
1:A:515:ILE:HD12	1:A:515:ILE:C	2.35	0.43
1:A:1292:VAL:O	1:A:1296:VAL:N	2.51	0.43
1:A:2200:ARG:HB2	1:A:2662:TYR:CD2	2.49	0.43
1:A:2234:ASP:N	1:A:2234:ASP:OD1	2.46	0.43
1:A:2286:LEU:HD13	1:A:2342:LEU:HD21	2.01	0.43
1:A:2590:ILE:HD12	1:A:2590:ILE:HA	1.72	0.43
1:C:45:ASP:HB2	1:C:48:ASN:H	1.83	0.43
1:C:462:LYS:HD3	1:C:462:LYS:HA	1.64	0.43
1:C:1292:VAL:O	1:C:1296:VAL:N	2.51	0.43
1:C:2365:LYS:NZ	1:C:2395:HIS:HA	2.34	0.43
1:C:2400:LEU:HD23	1:C:2400:LEU:HA	1.69	0.43
1:B:2197:GLU:HA	1:B:2207:GLN:HA	1.99	0.43
1:D:134:VAL:HG22	1:D:149:VAL:HG22	2.00	0.43
1:D:608:LYS:C	1:D:610:ILE:N	2.72	0.43
1:D:2104:HIS:O	1:D:2105:ASP:C	2.57	0.43
1:A:355:LEU:HD22	1:A:418:ILE:HB	2.00	0.43
1:A:514:ASN:O	1:A:516:LEU:N	2.51	0.43
1:A:2199:VAL:HG21	1:A:2680:ALA:HB2	2.00	0.43
1:A:2375:ASN:ND2	1:A:2375:ASN:N	2.65	0.43
1:A:2575:PHE:CE2	1:A:2579:ILE:HG13	2.54	0.43
1:A:2732:ARG:O	1:A:2732:ARG:HG2	2.19	0.43
1:C:252:THR:O	1:C:263:PHE:N	2.37	0.43
1:C:475:LYS:HA	1:C:552:ILE:HD13	2.00	0.43
1:C:546:HIS:HB2	1:C:547:ALA:H	1.48	0.43
1:C:638:CYS:O	1:C:639:VAL:O	2.36	0.43
1:C:1172:ASN:O	1:C:1176:VAL:N	2.51	0.43
1:C:2199:VAL:HG21	1:C:2680:ALA:HB2	2.00	0.43
1:C:2398:TYR:CE1	1:C:2401:ILE:HG12	2.54	0.43
1:C:2401:ILE:HG12	1:C:2416:LEU:CD1	2.48	0.43
1:B:77:LYS:HD3	1:B:77:LYS:HA	1.92	0.43
1:B:481:VAL:CG1	1:B:559:VAL:HG11	2.45	0.43
1:B:817:ASP:CA	1:B:878:PHE:C	2.84	0.43
1:B:2290:LEU:HD13	1:B:2290:LEU:O	2.19	0.43
1:B:2423:ARG:C	1:B:2423:ARG:CD	2.84	0.43
1:B:2559:GLU:C	1:B:2563:PHE:CD1	2.93	0.43
1:D:108:ARG:HH11	1:D:108:ARG:CG	2.08	0.43
1:D:481:VAL:CG1	1:D:559:VAL:HG11	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1085:ARG:O	1:D:1088:SER:N	2.47	0.43
1:D:2258:LYS:HA	1:D:2258:LYS:HD2	1.77	0.43
1:D:2401:ILE:HG12	1:D:2416:LEU:CD1	2.48	0.43
1:D:2428:LEU:HD22	1:D:2428:LEU:C	2.32	0.43
1:A:45:ASP:HB2	1:A:48:ASN:H	1.83	0.43
1:A:134:VAL:HG22	1:A:149:VAL:HG22	2.00	0.43
1:A:517:LYS:N	1:A:517:LYS:CE	2.82	0.43
1:A:555:LEU:HD23	1:A:555:LEU:HA	1.72	0.43
1:A:2258:LYS:HD2	1:A:2258:LYS:HA	1.77	0.43
1:A:2258:LYS:HD2	1:A:2261:ARG:HG3	2.01	0.43
1:A:2554:ARG:HA	1:A:2554:ARG:NE	2.34	0.43
1:A:2732:ARG:CD	1:A:2733:ILE:HD13	2.49	0.43
1:C:2412:PHE:HD1	1:C:2415:LEU:CD1	2.31	0.43
1:B:108:ARG:NH1	1:B:108:ARG:C	2.73	0.43
1:B:449:ALA:O	1:B:453:LEU:N	2.30	0.43
1:B:477:LEU:HD22	1:B:556:CYS:HB3	2.01	0.43
1:B:2365:LYS:NZ	1:B:2395:HIS:HA	2.34	0.43
1:D:11:ILE:HD12	1:D:62:PRO:HG3	1.99	0.43
1:D:2559:GLU:C	1:D:2563:PHE:CD1	2.93	0.43
1:D:2661:SER:HA	1:D:2664:ALA:HB3	2.01	0.43
1:A:85:ASP:N	1:A:89:LEU:HD12	2.34	0.42
1:A:1797:CYS:O	1:A:1801:LYS:N	2.39	0.42
1:A:2039:SER:O	1:A:2043:TYR:N	2.46	0.42
1:A:2192:HIS:CD2	1:A:2211:PRO:HA	2.54	0.42
1:A:2558:LYS:NZ	1:B:2528:CYS:HA	2.34	0.42
1:A:2735:LEU:HD22	1:A:2735:LEU:C	2.35	0.42
1:C:8:PHE:CE2	1:C:115:ILE:HB	2.54	0.42
1:C:134:VAL:HG22	1:C:149:VAL:HG22	2.00	0.42
1:C:608:LYS:C	1:C:610:ILE:N	2.72	0.42
1:C:1792:LEU:O	1:C:1797:CYS:N	2.44	0.42
1:C:2200:ARG:CD	1:C:2662:TYR:CG	2.92	0.42
1:C:2256:TRP:CZ2	1:C:2377:GLY:HA3	2.54	0.42
1:C:2554:ARG:NE	1:C:2554:ARG:HA	2.34	0.42
1:C:2559:GLU:C	1:C:2563:PHE:CD1	2.93	0.42
1:B:85:ASP:N	1:B:89:LEU:HD12	2.34	0.42
1:B:94:HIS:ND1	1:B:94:HIS:C	2.72	0.42
1:B:2192:HIS:CD2	1:B:2211:PRO:HA	2.54	0.42
1:B:2726:GLN:N	1:B:2726:GLN:CD	2.71	0.42
1:D:638:CYS:O	1:D:639:VAL:O	2.36	0.42
1:D:2285:VAL:CG1	1:D:2286:LEU:H	2.24	0.42
1:D:2398:TYR:CE1	1:D:2401:ILE:HG12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2441:ILE:HD12	1:D:2441:ILE:HA	1.77	0.42
1:D:2590:ILE:HA	1:D:2590:ILE:HD12	1.72	0.42
1:A:2401:ILE:HG12	1:A:2416:LEU:CD1	2.48	0.42
1:A:2559:GLU:C	1:A:2563:PHE:CD1	2.93	0.42
1:A:2709:VAL:HA	1:A:2712:LEU:HD22	2.01	0.42
1:C:92:LEU:H	1:C:92:LEU:CD1	2.31	0.42
1:C:2345:ILE:HD11	1:C:2356:LEU:HG	2.00	0.42
1:B:8:PHE:CE2	1:B:115:ILE:HB	2.54	0.42
1:B:515:ILE:HD12	1:B:515:ILE:C	2.35	0.42
1:B:555:LEU:HD23	1:B:555:LEU:HA	1.72	0.42
1:B:1871:ILE:O	1:B:1875:VAL:N	2.47	0.42
1:B:2530:THR:HA	1:B:2534:CYS:HB3	2.01	0.42
1:B:2639:TRP:CE3	1:B:2639:TRP:CA	3.02	0.42
1:B:2709:VAL:HA	1:B:2712:LEU:HD22	2.01	0.42
1:B:2732:ARG:O	1:B:2732:ARG:HG2	2.19	0.42
1:D:2199:VAL:HG21	1:D:2680:ALA:HB2	2.00	0.42
1:D:2258:LYS:HD2	1:D:2261:ARG:HG3	2.01	0.42
1:D:2575:PHE:CE2	1:D:2579:ILE:HG13	2.54	0.42
1:A:80:ALA:C	1:A:81:ASN:ND2	2.73	0.42
1:A:94:HIS:ND1	1:A:94:HIS:C	2.72	0.42
1:A:264:LEU:C	1:A:264:LEU:HD12	2.40	0.42
1:A:582:GLN:NE2	1:A:582:GLN:C	2.73	0.42
1:A:2288:ASN:O	1:A:2289:LEU:C	2.57	0.42
1:A:2412:PHE:HD1	1:A:2415:LEU:CD1	2.31	0.42
1:A:2606:ILE:HA	1:A:2610:THR:HG22	2.02	0.42
1:C:85:ASP:N	1:C:89:LEU:HD12	2.34	0.42
1:C:108:ARG:NH1	1:C:108:ARG:C	2.73	0.42
1:C:401:SER:N	1:C:428:GLU:OE2	2.52	0.42
1:C:517:LYS:N	1:C:517:LYS:CE	2.82	0.42
1:C:554:ARG:NE	1:C:554:ARG:C	2.73	0.42
1:C:2530:THR:HA	1:C:2534:CYS:HB3	2.01	0.42
1:C:2558:LYS:HD2	1:C:2560:GLU:HG2	1.95	0.42
1:C:2621:PHE:CA	1:C:2624:LYS:HG2	2.48	0.42
1:C:2732:ARG:CD	1:C:2733:ILE:HD13	2.49	0.42
1:B:516:LEU:N	1:B:516:LEU:CD1	2.79	0.42
1:B:2201:LEU:HD12	1:B:2203:ARG:NH2	2.31	0.42
1:B:2281:PHE:CD1	1:B:2282:ASN:N	2.87	0.42
1:B:2606:ILE:HA	1:B:2610:THR:HG22	2.02	0.42
1:D:8:PHE:CE2	1:D:115:ILE:HB	2.54	0.42
1:D:85:ASP:N	1:D:89:LEU:HD12	2.34	0.42
1:D:2281:PHE:CD1	1:D:2282:ASN:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2369:LEU:HG	1:D:2370:MET:CE	2.49	0.42
1:A:13:ASP:HB2	1:A:60:LEU:HD23	2.00	0.42
1:A:77:LYS:HB2	1:A:78:PRO:CD	2.47	0.42
1:A:2256:TRP:CZ2	1:A:2377:GLY:CA	3.03	0.42
1:A:2350:LEU:N	1:A:2350:LEU:HD22	2.34	0.42
1:A:2656:TYR:O	1:A:2660:GLU:HG3	2.18	0.42
1:C:77:LYS:HB2	1:C:78:PRO:CD	2.47	0.42
1:C:108:ARG:HH11	1:C:108:ARG:CG	2.08	0.42
1:C:571:GLN:CD	1:C:571:GLN:N	2.73	0.42
1:C:2192:HIS:CD2	1:C:2211:PRO:HA	2.54	0.42
1:C:2585:ILE:HA	1:C:2585:ILE:HD13	1.53	0.42
1:C:2639:TRP:CE3	1:C:2639:TRP:CA	3.02	0.42
1:C:2720:LYS:CA	1:C:2720:LYS:CE	2.96	0.42
1:B:104:GLU:C	1:B:106:GLU:N	2.64	0.42
1:B:564:GLN:CA	1:B:574:ILE:HD12	2.47	0.42
1:B:2401:ILE:HG12	1:B:2416:LEU:CD1	2.48	0.42
1:B:2730:LYS:C	1:B:2730:LYS:CD	2.85	0.42
1:D:517:LYS:N	1:D:517:LYS:CE	2.82	0.42
1:D:1995:THR:O	1:D:1998:ASN:CA	2.68	0.42
1:D:2283:LEU:C	1:D:2283:LEU:CD2	2.88	0.42
1:D:2580:ILE:CG2	1:D:2584:LEU:HD12	2.50	0.42
1:D:2694:GLU:OE1	1:D:2694:GLU:HA	2.20	0.42
1:A:2031:ALA:O	1:A:2035:GLN:N	2.44	0.42
1:A:2365:LYS:NZ	1:A:2395:HIS:HA	2.34	0.42
1:A:2369:LEU:HG	1:A:2370:MET:CE	2.49	0.42
1:A:2547:GLY:C	1:B:2545:SER:HA	2.40	0.42
1:A:2644:PHE:CE1	1:A:2648:VAL:HG11	2.55	0.42
1:A:2694:GLU:OE1	1:A:2694:GLU:HA	2.20	0.42
1:C:15:CYS:HA	1:C:223:PHE:H	1.84	0.42
1:C:2281:PHE:CD1	1:C:2282:ASN:N	2.87	0.42
1:C:2286:LEU:CA	1:C:2289:LEU:HD11	2.50	0.42
1:C:2287:MET:O	1:C:2290:LEU:HB2	2.08	0.42
1:C:2288:ASN:C	1:C:2290:LEU:N	2.73	0.42
1:C:2369:LEU:HG	1:C:2370:MET:CE	2.49	0.42
1:C:2694:GLU:OE1	1:C:2694:GLU:HA	2.20	0.42
1:B:269:ARG:HD3	1:B:272:ALA:CB	2.48	0.42
1:B:1072:TYR:O	1:B:1075:LEU:C	2.47	0.42
1:B:2732:ARG:CD	1:B:2733:ILE:HD13	2.49	0.42
1:D:92:LEU:H	1:D:92:LEU:HD13	1.79	0.42
1:D:94:HIS:ND1	1:D:94:HIS:C	2.72	0.42
1:D:108:ARG:NH1	1:D:108:ARG:C	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2286:LEU:HD13	1:D:2342:LEU:HD21	2.01	0.42
1:D:2351:GLN:H	1:D:2352:PRO:HD2	1.82	0.42
1:D:2365:LYS:NZ	1:D:2395:HIS:HA	2.34	0.42
1:D:2597:ARG:O	1:D:2600:LYS:N	2.50	0.42
1:A:1995:THR:O	1:A:1998:ASN:CA	2.68	0.42
1:A:2203:ARG:HE	1:A:2203:ARG:HB2	1.71	0.42
1:A:2240:ILE:N	1:A:2240:ILE:CD1	2.71	0.42
1:A:2345:ILE:HD12	1:A:2357:LEU:HD23	1.99	0.42
1:A:2586:PHE:CD1	1:D:2583:ASN:ND2	2.87	0.42
1:A:2632:ILE:H	1:A:2632:ILE:HG13	1.39	0.42
1:C:254:ASP:O	1:C:261:HIS:N	2.53	0.42
1:C:264:LEU:C	1:C:264:LEU:HD12	2.40	0.42
1:C:1634:GLU:O	1:C:1637:PHE:C	2.58	0.42
1:C:2575:PHE:CE2	1:C:2579:ILE:HG13	2.54	0.42
1:B:2256:TRP:CZ2	1:B:2377:GLY:HA3	2.54	0.42
1:B:2412:PHE:HD1	1:B:2415:LEU:CD1	2.31	0.42
1:B:2558:LYS:C	1:B:2560:GLU:N	2.53	0.42
1:B:2656:TYR:O	1:B:2660:GLU:HG3	2.18	0.42
1:D:15:CYS:HA	1:D:223:PHE:H	1.84	0.42
1:D:441:ARG:NH1	1:D:441:ARG:CB	2.81	0.42
1:D:554:ARG:NE	1:D:554:ARG:C	2.73	0.42
1:D:2200:ARG:HB2	1:D:2662:TYR:CD2	2.49	0.42
1:D:2366:ILE:HA	1:D:2366:ILE:HD13	1.57	0.42
1:D:2554:ARG:HA	1:D:2554:ARG:NE	2.34	0.42
1:D:2709:VAL:HA	1:D:2712:LEU:HD22	2.01	0.42
1:A:72:PHE:HD1	1:A:93:HIS:CB	2.19	0.42
1:A:554:ARG:NE	1:A:554:ARG:C	2.73	0.42
1:C:2279:ILE:HA	1:C:2279:ILE:HD13	1.71	0.42
1:C:2429:ASN:HA	1:C:2432:LYS:HE2	2.02	0.42
1:C:2644:PHE:CE1	1:C:2648:VAL:HG11	2.55	0.42
1:B:1634:GLU:O	1:B:1637:PHE:C	2.58	0.42
1:B:1995:THR:O	1:B:1998:ASN:CA	2.68	0.42
1:B:2585:ILE:HA	1:B:2585:ILE:HD13	1.53	0.42
1:B:2694:GLU:OE1	1:B:2694:GLU:HA	2.20	0.42
1:D:269:ARG:HB2	2:D:2801:JYP:C2	2.33	0.42
1:D:450:SER:HA	1:D:453:LEU:HG	1.94	0.42
1:D:1792:LEU:O	1:D:1797:CYS:N	2.44	0.42
1:A:85:ASP:CA	1:A:89:LEU:HD12	2.50	0.42
1:A:2661:SER:HA	1:A:2664:ALA:HB3	2.01	0.42
1:C:80:ALA:C	1:C:81:ASN:ND2	2.73	0.42
1:C:85:ASP:CA	1:C:89:LEU:HD12	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:477:LEU:HD22	1:C:556:CYS:HB3	2.01	0.42
1:C:564:GLN:O	1:C:571:GLN:HG2	2.20	0.42
1:C:2239:LYS:HZ2	1:C:2677:ARG:HA	1.85	0.42
1:C:2290:LEU:HD13	1:C:2290:LEU:O	2.19	0.42
1:C:2411:PHE:H	1:C:2412:PHE:HD2	1.68	0.42
1:C:2580:ILE:CG2	1:C:2584:LEU:HD12	2.50	0.42
1:B:80:ALA:C	1:B:81:ASN:ND2	2.73	0.42
1:B:460:LEU:C	1:B:460:LEU:CD1	2.85	0.42
1:B:2429:ASN:HA	1:B:2432:LYS:HE2	2.02	0.42
1:B:2559:GLU:O	1:B:2562:LEU:HB2	2.20	0.42
1:B:2575:PHE:CE2	1:B:2579:ILE:HG13	2.54	0.42
1:D:477:LEU:HD22	1:D:556:CYS:HB3	2.01	0.42
1:D:482:TYR:HA	1:D:485:THR:HA	2.02	0.42
1:D:582:GLN:NE2	1:D:582:GLN:C	2.73	0.42
1:D:2027:GLU:O	1:D:2028:LYS:C	2.57	0.42
1:D:2256:TRP:CZ2	1:D:2377:GLY:CA	3.03	0.42
1:A:108:ARG:NH1	1:A:108:ARG:C	2.73	0.42
1:A:564:GLN:O	1:A:571:GLN:HG2	2.20	0.42
1:A:2281:PHE:CD1	1:A:2282:ASN:N	2.87	0.42
1:A:2580:ILE:CG2	1:A:2584:LEU:HD12	2.50	0.42
1:C:94:HIS:ND1	1:C:94:HIS:C	2.72	0.42
1:C:305:PHE:HD2	1:C:314:LEU:HD23	1.85	0.42
1:C:2240:ILE:C	1:C:2242:ASP:N	2.70	0.42
1:C:2401:ILE:CG2	1:C:2416:LEU:CD1	2.41	0.42
1:C:2598:SER:HA	1:C:2601:GLN:HE22	1.85	0.42
1:B:254:ASP:O	1:B:261:HIS:N	2.53	0.42
1:B:264:LEU:C	1:B:264:LEU:HD12	2.40	0.42
1:B:517:LYS:N	1:B:517:LYS:CE	2.82	0.42
1:B:2256:TRP:CZ2	1:B:2377:GLY:CA	3.03	0.42
1:B:2286:LEU:HD13	1:B:2342:LEU:HD21	2.01	0.42
1:D:80:ALA:C	1:D:81:ASN:ND2	2.73	0.42
1:D:2656:TYR:O	1:D:2660:GLU:HG3	2.18	0.42
1:A:90:ASN:ND2	1:A:90:ASN:C	2.74	0.42
1:A:1791:SER:O	1:A:1795:VAL:N	2.37	0.42
1:A:2285:VAL:O	1:A:2286:LEU:C	2.54	0.42
1:A:2726:GLN:N	1:A:2726:GLN:CD	2.71	0.42
1:C:14:ILE:HB	1:C:224:MET:HB3	2.02	0.42
1:C:264:LEU:O	1:C:264:LEU:HD12	2.20	0.42
1:C:1995:THR:O	1:C:1998:ASN:CA	2.67	0.42
1:C:2365:LYS:HE2	1:C:2398:TYR:CB	2.37	0.42
1:C:2726:GLN:N	1:C:2726:GLN:CD	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:443:LEU:C	1:B:443:LEU:CD2	2.84	0.42
1:B:554:ARG:NE	1:B:554:ARG:C	2.73	0.42
1:B:2288:ASN:O	1:B:2289:LEU:C	2.57	0.42
1:B:2369:LEU:HG	1:B:2370:MET:CE	2.49	0.42
1:B:2375:ASN:ND2	1:B:2375:ASN:N	2.65	0.42
1:B:2398:TYR:CE1	1:B:2401:ILE:HG12	2.54	0.42
1:B:2411:PHE:H	1:B:2412:PHE:HD2	1.68	0.42
1:B:2644:PHE:CE1	1:B:2648:VAL:HG11	2.55	0.42
1:B:2712:LEU:HD12	1:B:2712:LEU:HA	1.77	0.42
1:D:125:HIS:HB3	1:D:130:LYS:H	1.85	0.42
1:D:264:LEU:C	1:D:264:LEU:HD12	2.40	0.42
1:D:1245:CYS:C	1:D:1247:GLY:N	2.41	0.42
1:D:2103:ARG:O	1:D:2105:ASP:N	2.39	0.42
1:D:2256:TRP:CZ2	1:D:2377:GLY:HA3	2.54	0.42
1:D:2365:LYS:HE3	1:D:2395:HIS:O	2.16	0.42
1:D:2732:ARG:CD	1:D:2733:ILE:HD13	2.49	0.42
1:A:482:TYR:HA	1:A:485:THR:HA	2.02	0.41
1:A:571:GLN:CD	1:A:571:GLN:N	2.73	0.41
1:A:2290:LEU:HD13	1:A:2290:LEU:O	2.19	0.41
1:A:2558:LYS:CD	1:A:2560:GLU:HG3	2.50	0.41
1:A:2559:GLU:O	1:A:2562:LEU:HB2	2.20	0.41
1:A:2677:ARG:HH21	1:B:2623:ASN:CB	2.28	0.41
1:C:1389:LYS:O	1:C:1436:VAL:CA	2.68	0.41
1:C:2228:TYR:HD1	1:C:2228:TYR:HA	1.74	0.41
1:C:2256:TRP:CZ2	1:C:2377:GLY:CA	3.03	0.41
1:B:482:TYR:HA	1:B:485:THR:HA	2.02	0.41
1:B:608:LYS:C	1:B:610:ILE:N	2.72	0.41
1:B:2240:ILE:C	1:B:2242:ASP:N	2.70	0.41
1:B:2345:ILE:CG2	1:B:2353:THR:HG1	2.15	0.41
1:D:2406:LEU:HD22	1:D:2407:PHE:CD1	2.55	0.41
1:D:2422:TYR:C	1:D:2424:GLU:N	2.74	0.41
1:D:2530:THR:HA	1:D:2534:CYS:HB3	2.01	0.41
1:D:2606:ILE:HA	1:D:2610:THR:HG22	2.02	0.41
1:D:2732:ARG:O	1:D:2732:ARG:HG2	2.19	0.41
1:A:84:THR:HB	1:A:89:LEU:HG	2.02	0.41
1:A:516:LEU:H	1:A:516:LEU:CD1	2.14	0.41
1:A:2256:TRP:CZ2	1:A:2377:GLY:HA3	2.54	0.41
1:A:2388:LEU:CD2	1:A:2388:LEU:N	2.73	0.41
1:A:2406:LEU:HD22	1:A:2407:PHE:CD1	2.55	0.41
1:C:90:ASN:ND2	1:C:90:ASN:C	2.74	0.41
1:C:582:GLN:NE2	1:C:582:GLN:C	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2350:LEU:N	1:C:2350:LEU:HD22	2.34	0.41
1:C:2406:LEU:HD22	1:C:2407:PHE:CD1	2.55	0.41
1:C:2535:ILE:H	1:C:2535:ILE:HG13	1.62	0.41
1:C:2606:ILE:HA	1:C:2610:THR:HG22	2.02	0.41
1:B:571:GLN:CD	1:B:571:GLN:N	2.73	0.41
1:B:2661:SER:HA	1:B:2664:ALA:HB3	2.01	0.41
1:D:76:ALA:HB3	1:D:77:LYS:CE	2.50	0.41
1:D:305:PHE:HD2	1:D:314:LEU:HD23	1.85	0.41
1:D:2160:ALA:O	1:D:2164:ALA:N	2.53	0.41
1:D:2350:LEU:N	1:D:2350:LEU:HD22	2.34	0.41
1:D:2411:PHE:H	1:D:2412:PHE:HD2	1.68	0.41
1:D:2558:LYS:HD2	1:D:2560:GLU:HG2	1.95	0.41
1:D:2639:TRP:CE3	1:D:2639:TRP:CA	3.02	0.41
1:A:76:ALA:HB3	1:A:77:LYS:CE	2.50	0.41
1:A:254:ASP:O	1:A:261:HIS:N	2.53	0.41
1:A:446:ALA:CB	1:A:480:LEU:HD21	2.50	0.41
1:A:507:GLN:HA	1:A:510:MET:SD	2.61	0.41
1:A:562:HIS:ND1	1:A:562:HIS:C	2.72	0.41
1:A:2555:LYS:NZ	1:B:2526:HIS:HB2	2.36	0.41
1:C:74:LYS:HA	1:C:74:LYS:HE2	2.01	0.41
1:C:460:LEU:HD22	1:C:460:LEU:HA	1.62	0.41
1:C:481:VAL:CG1	1:C:559:VAL:HG11	2.45	0.41
1:C:2361:ASN:ND2	1:C:2401:ILE:CD1	2.50	0.41
1:B:2283:LEU:C	1:B:2283:LEU:CD2	2.88	0.41
1:B:2406:LEU:HD22	1:B:2407:PHE:CD1	2.55	0.41
1:B:2422:TYR:C	1:B:2424:GLU:N	2.74	0.41
1:B:2582:LEU:HD23	1:B:2582:LEU:HA	1.53	0.41
1:B:2621:PHE:CA	1:B:2624:LYS:HG2	2.48	0.41
1:D:254:ASP:O	1:D:261:HIS:N	2.53	0.41
1:D:462:LYS:HD3	1:D:462:LYS:HA	1.64	0.41
1:D:571:GLN:CD	1:D:571:GLN:N	2.73	0.41
1:D:2239:LYS:HG2	1:D:2240:ILE:CB	2.47	0.41
1:D:2290:LEU:HD13	1:D:2290:LEU:O	2.19	0.41
1:D:2406:LEU:C	1:D:2406:LEU:HD23	2.41	0.41
1:D:2598:SER:HA	1:D:2601:GLN:HE22	1.85	0.41
1:D:2644:PHE:CE1	1:D:2648:VAL:HG11	2.55	0.41
1:A:73:TRP:HZ3	1:A:156:ASN:HD21	1.69	0.41
1:A:305:PHE:HD2	1:A:314:LEU:HD23	1.85	0.41
1:A:2256:TRP:CZ2	1:A:2377:GLY:N	2.89	0.41
1:A:2398:TYR:CE1	1:A:2401:ILE:HG12	2.54	0.41
1:A:2524:LYS:HD3	1:A:2524:LYS:HA	1.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2588:VAL:O	1:A:2592:THR:OG1	2.29	0.41
1:A:2598:SER:HA	1:A:2601:GLN:HE22	1.85	0.41
1:A:2639:TRP:CE3	1:A:2639:TRP:CA	3.02	0.41
1:C:76:ALA:HB3	1:C:77:LYS:CE	2.50	0.41
1:C:91:LYS:HA	1:C:94:HIS:CD2	2.56	0.41
1:C:446:ALA:CB	1:C:480:LEU:HD21	2.50	0.41
1:C:482:TYR:HA	1:C:485:THR:HA	2.02	0.41
1:C:2356:LEU:C	1:C:2356:LEU:CD1	2.85	0.41
1:B:90:ASN:ND2	1:B:90:ASN:C	2.74	0.41
1:B:305:PHE:HD2	1:B:314:LEU:HD23	1.85	0.41
1:B:2031:ALA:O	1:B:2035:GLN:N	2.43	0.41
1:B:2288:ASN:C	1:B:2290:LEU:N	2.73	0.41
1:B:2387:VAL:HA	1:B:2390:VAL:HG12	2.03	0.41
1:D:85:ASP:CA	1:D:89:LEU:HD12	2.50	0.41
1:D:264:LEU:O	1:D:264:LEU:HD12	2.20	0.41
1:D:510:MET:O	1:D:515:ILE:HG22	2.08	0.41
1:D:515:ILE:HD12	1:D:515:ILE:C	2.35	0.41
1:D:1634:GLU:O	1:D:1637:PHE:C	2.58	0.41
1:A:269:ARG:HB2	2:A:2801:JYP:C2	2.33	0.41
1:A:2243:PHE:HZ	1:A:2638:MET:C	2.24	0.41
1:C:1791:SER:O	1:C:1795:VAL:N	2.37	0.41
1:C:2256:TRP:CZ2	1:C:2377:GLY:N	2.89	0.41
1:C:2353:THR:HA	1:C:2356:LEU:HD23	2.03	0.41
1:C:2378:THR:HG22	1:C:2380:THR:HB	2.03	0.41
1:B:134:VAL:HG22	1:B:149:VAL:HG22	2.00	0.41
1:B:2222:GLU:H	1:B:2222:GLU:HG3	1.59	0.41
1:B:2252:ASN:HA	1:B:2255:ASN:ND2	2.36	0.41
1:B:2584:LEU:HD23	1:B:2584:LEU:HA	1.68	0.41
1:B:2735:LEU:HD22	1:B:2735:LEU:C	2.35	0.41
1:D:269:ARG:CG	1:D:272:ALA:HB3	2.51	0.41
1:D:507:GLN:HA	1:D:510:MET:SD	2.61	0.41
1:D:564:GLN:O	1:D:571:GLN:HG2	2.20	0.41
1:D:2192:HIS:CD2	1:D:2211:PRO:HA	2.54	0.41
1:D:2201:LEU:HD12	1:D:2203:ARG:NH2	2.31	0.41
1:D:2243:PHE:HZ	1:D:2638:MET:C	2.24	0.41
1:D:2406:LEU:HD22	1:D:2407:PHE:CG	2.56	0.41
1:D:2554:ARG:HH21	1:D:2556:PRO:HD3	1.85	0.41
1:A:125:HIS:HB3	1:A:130:LYS:H	1.85	0.41
1:A:477:LEU:CD2	1:A:556:CYS:HB3	2.51	0.41
1:A:1389:LYS:O	1:A:1436:VAL:CA	2.68	0.41
1:A:2427:LEU:HD13	1:D:2444:THR:OG1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2530:THR:HA	1:A:2534:CYS:HB3	2.01	0.41
1:A:2572:LEU:HA	1:A:2572:LEU:HD23	1.74	0.41
1:C:108:ARG:O	1:C:108:ARG:CZ	2.69	0.41
1:C:2286:LEU:HD13	1:C:2342:LEU:HD21	2.01	0.41
1:C:2422:TYR:C	1:C:2424:GLU:N	2.74	0.41
1:C:2732:ARG:O	1:C:2732:ARG:HG2	2.19	0.41
1:B:125:HIS:HB3	1:B:130:LYS:H	1.85	0.41
1:B:477:LEU:CD2	1:B:556:CYS:HB3	2.51	0.41
1:B:514:ASN:OD1	1:B:516:LEU:HD13	1.95	0.41
1:B:2243:PHE:HZ	1:B:2638:MET:C	2.24	0.41
1:B:2406:LEU:C	1:B:2406:LEU:HD23	2.41	0.41
1:B:2406:LEU:HD22	1:B:2407:PHE:CG	2.56	0.41
1:B:2572:LEU:HD23	1:B:2572:LEU:HA	1.74	0.41
1:D:91:LYS:HA	1:D:94:HIS:CD2	2.56	0.41
1:D:446:ALA:CB	1:D:480:LEU:HD21	2.50	0.41
1:D:2271:ARG:HH12	1:D:2272:ASN:CG	1.88	0.41
1:D:2419:ASP:HA	1:D:2422:TYR:HB3	2.03	0.41
1:D:2429:ASN:HA	1:D:2432:LYS:HE2	2.02	0.41
1:D:2528:CYS:HB2	1:D:2529:GLU:H	1.72	0.41
1:D:2578:ILE:HG23	1:D:2579:ILE:CG1	2.48	0.41
1:A:14:ILE:HB	1:A:224:MET:HB3	2.02	0.41
1:A:69:GLN:H	1:A:100:LYS:HZ3	1.65	0.41
1:A:477:LEU:HD22	1:A:556:CYS:HB3	2.01	0.41
1:A:1380:GLU:CA	1:A:1423:TYR:O	2.69	0.41
1:A:2378:THR:HG22	1:A:2380:THR:HB	2.03	0.41
1:A:2429:ASN:HA	1:A:2432:LYS:HE2	2.02	0.41
1:A:2732:ARG:HD2	1:A:2733:ILE:HD13	2.03	0.41
1:C:84:THR:HB	1:C:89:LEU:HG	2.02	0.41
1:C:477:LEU:CD2	1:C:556:CYS:HB3	2.51	0.41
1:C:2252:ASN:HA	1:C:2255:ASN:ND2	2.36	0.41
1:C:2345:ILE:HD12	1:C:2353:THR:HG1	1.84	0.41
1:C:2709:VAL:HA	1:C:2712:LEU:HD22	2.01	0.41
1:B:14:ILE:HB	1:B:224:MET:HB3	2.02	0.41
1:B:76:ALA:HB3	1:B:77:LYS:CE	2.50	0.41
1:B:85:ASP:CA	1:B:89:LEU:HD12	2.50	0.41
1:B:264:LEU:O	1:B:264:LEU:HD12	2.20	0.41
1:B:497:VAL:CB	1:B:504:ARG:NE	2.83	0.41
1:B:516:LEU:HB2	1:B:517:LYS:HE2	2.03	0.41
1:B:2365:LYS:HE3	1:B:2395:HIS:O	2.16	0.41
1:B:2398:TYR:HA	1:B:2401:ILE:HG23	2.03	0.41
1:B:2409:HIS:C	1:B:2409:HIS:HD1	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2580:ILE:CG2	1:B:2584:LEU:HD12	2.50	0.41
1:D:108:ARG:NH1	1:D:108:ARG:CG	2.72	0.41
1:D:1380:GLU:CA	1:D:1423:TYR:O	2.69	0.41
1:D:2240:ILE:C	1:D:2242:ASP:N	2.70	0.41
1:A:169:LEU:O	1:B:387:TYR:OH	2.17	0.41
1:A:252:THR:O	1:A:263:PHE:N	2.37	0.41
1:A:2201:LEU:N	1:A:2662:TYR:CZ	2.79	0.41
1:A:2286:LEU:CA	1:A:2289:LEU:HD11	2.50	0.41
1:A:2406:LEU:HD22	1:A:2407:PHE:CG	2.56	0.41
1:A:2419:ASP:HA	1:A:2422:TYR:HB3	2.03	0.41
1:A:2700:GLU:OE1	1:B:2699:GLN:CB	2.67	0.41
1:C:125:HIS:HB3	1:C:130:LYS:H	1.85	0.41
1:C:562:HIS:ND1	1:C:562:HIS:C	2.72	0.41
1:C:2398:TYR:HA	1:C:2401:ILE:HG23	2.03	0.41
1:C:2406:LEU:HD22	1:C:2407:PHE:CG	2.56	0.41
1:C:2432:LYS:HE2	1:C:2432:LYS:HB2	1.89	0.41
1:C:2558:LYS:CD	1:C:2560:GLU:HG3	2.49	0.41
1:C:2572:LEU:HD23	1:C:2572:LEU:HA	1.74	0.41
1:C:2732:ARG:HD2	1:C:2733:ILE:HD13	2.03	0.41
1:B:108:ARG:O	1:B:108:ARG:CZ	2.69	0.41
1:B:162:TYR:CZ	1:B:187:VAL:HG22	2.56	0.41
1:B:446:ALA:CB	1:B:480:LEU:HD21	2.50	0.41
1:B:2245:LEU:H	1:B:2245:LEU:HG	1.57	0.41
1:B:2353:THR:HA	1:B:2356:LEU:HD23	2.03	0.41
1:B:2370:MET:HA	1:B:2370:MET:HE2	1.95	0.41
1:B:2400:LEU:HD23	1:B:2400:LEU:HA	1.69	0.41
1:B:2573:PHE:CD1	1:B:2577:VAL:HG23	2.56	0.41
1:D:90:ASN:C	1:D:90:ASN:ND2	2.74	0.41
1:D:497:VAL:CB	1:D:504:ARG:NE	2.83	0.41
1:D:2250:LEU:HA	1:D:2250:LEU:HD22	1.41	0.41
1:D:2387:VAL:HA	1:D:2390:VAL:HG12	2.03	0.41
1:D:2720:LYS:CA	1:D:2720:LYS:CE	2.96	0.41
1:D:2736:LEU:C	1:D:2736:LEU:CD2	2.89	0.41
1:A:264:LEU:O	1:A:264:LEU:HD12	2.20	0.41
1:A:269:ARG:CG	1:A:272:ALA:HB3	2.51	0.41
1:A:281:LEU:HB3	1:A:308:LEU:HB2	2.03	0.41
1:A:438:ALA:HA	1:A:441:ARG:NH2	2.36	0.41
1:A:441:ARG:NH1	1:A:441:ARG:CB	2.81	0.41
1:A:608:LYS:C	1:A:610:ILE:N	2.72	0.41
1:A:2160:ALA:O	1:A:2164:ALA:N	2.53	0.41
1:A:2252:ASN:HA	1:A:2255:ASN:ND2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2345:ILE:CD1	1:A:2356:LEU:CG	2.80	0.41
1:A:2554:ARG:HH21	1:A:2556:PRO:HD3	1.85	0.41
1:A:2558:LYS:HD2	1:A:2560:GLU:HG2	1.94	0.41
1:A:2702:LEU:HD23	1:A:2702:LEU:HA	1.97	0.41
1:C:497:VAL:CB	1:C:504:ARG:NE	2.83	0.41
1:C:2239:LYS:HZ3	1:C:2677:ARG:NE	2.12	0.41
1:C:2524:LYS:HA	1:C:2524:LYS:HD3	1.78	0.41
1:C:2558:LYS:NZ	1:D:2528:CYS:HA	2.36	0.41
1:C:2559:GLU:O	1:C:2562:LEU:HB2	2.20	0.41
1:C:2578:ILE:HG23	1:C:2579:ILE:CG1	2.48	0.41
1:C:2707:LYS:HG2	1:D:2706:MET:CB	2.51	0.41
1:B:84:THR:HB	1:B:89:LEU:HG	2.02	0.41
1:B:200:LEU:HD21	1:B:208:GLU:HB2	2.03	0.41
1:B:486:GLY:O	1:B:510:MET:HE1	2.20	0.41
1:B:582:GLN:NE2	1:B:582:GLN:C	2.73	0.41
1:B:2571:LEU:C	1:B:2571:LEU:CD2	2.89	0.41
1:B:2598:SER:HA	1:B:2601:GLN:HE22	1.85	0.41
1:B:2738:HIS:O	1:B:2738:HIS:CG	2.70	0.41
1:D:73:TRP:HZ3	1:D:156:ASN:HD21	1.69	0.41
1:D:269:ARG:HD3	1:D:272:ALA:CB	2.48	0.41
1:D:281:LEU:HB3	1:D:308:LEU:HB2	2.03	0.41
1:D:1389:LYS:O	1:D:1436:VAL:CA	2.68	0.41
1:D:2245:LEU:H	1:D:2245:LEU:HG	1.57	0.41
1:D:2571:LEU:C	1:D:2571:LEU:CD2	2.89	0.41
1:D:2578:ILE:CD1	1:D:2578:ILE:O	2.68	0.41
1:D:2584:LEU:HA	1:D:2584:LEU:HD23	1.69	0.41
1:D:2647:LEU:O	1:D:2650:VAL:CG2	2.69	0.41
1:A:107:ASN:HA	1:A:110:LEU:HB2	2.03	0.41
1:A:162:TYR:CZ	1:A:187:VAL:HG22	2.56	0.41
1:A:497:VAL:CB	1:A:504:ARG:NE	2.83	0.41
1:A:1818:ASP:O	1:A:1822:HIS:N	2.38	0.41
1:A:2272:ASN:O	1:A:2276:TRP:HD1	1.79	0.41
1:A:2712:LEU:HD12	1:A:2712:LEU:HA	1.77	0.41
1:A:2736:LEU:C	1:A:2736:LEU:CD2	2.89	0.41
1:C:107:ASN:HA	1:C:110:LEU:HB2	2.03	0.41
1:C:507:GLN:HA	1:C:510:MET:SD	2.61	0.41
1:C:1380:GLU:CA	1:C:1423:TYR:O	2.69	0.41
1:C:2343:ARG:HB3	1:C:2346:PHE:HE2	1.87	0.41
1:C:2370:MET:CE	1:C:2370:MET:CA	2.85	0.41
1:C:2428:LEU:HD22	1:C:2428:LEU:C	2.32	0.41
1:C:2428:LEU:C	1:C:2428:LEU:CD1	2.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2444:THR:OG1	1:D:2427:LEU:HD13	2.21	0.41
1:C:2647:LEU:O	1:C:2650:VAL:CG2	2.69	0.41
1:C:2713:SER:HA	1:C:2716:LEU:CD2	2.44	0.41
1:B:441:ARG:NH1	1:B:441:ARG:CB	2.81	0.41
1:B:564:GLN:O	1:B:571:GLN:HG2	2.20	0.41
1:B:1116:LYS:O	1:B:1118:ASP:N	2.54	0.41
1:B:1389:LYS:O	1:B:1436:VAL:CA	2.68	0.41
1:B:2256:TRP:CZ2	1:B:2377:GLY:N	2.89	0.41
1:B:2401:ILE:HG21	1:B:2416:LEU:HD13	0.59	0.41
1:B:2407:PHE:HD1	1:B:2408:VAL:HG22	1.86	0.41
1:B:2554:ARG:HH21	1:B:2556:PRO:HD3	1.85	0.41
1:B:2720:LYS:CA	1:B:2720:LYS:CE	2.96	0.41
1:D:14:ILE:HB	1:D:224:MET:HB3	2.02	0.41
1:A:2411:PHE:H	1:A:2412:PHE:HD2	1.68	0.40
1:A:2621:PHE:CA	1:A:2624:LYS:HG2	2.48	0.40
1:A:2699:GLN:OE1	1:D:2699:GLN:HB3	2.18	0.40
1:C:269:ARG:CG	1:C:272:ALA:HB3	2.51	0.40
1:C:358:VAL:HA	1:C:359:PRO:HD3	1.91	0.40
1:C:2283:LEU:C	1:C:2283:LEU:CD2	2.88	0.40
1:B:107:ASN:HA	1:B:110:LEU:HB2	2.03	0.40
1:B:507:GLN:HA	1:B:510:MET:SD	2.61	0.40
1:B:2201:LEU:N	1:B:2662:TYR:CZ	2.78	0.40
1:B:2219:LEU:HD13	1:B:2219:LEU:HA	1.90	0.40
1:B:2412:PHE:O	1:B:2414:SER:C	2.58	0.40
1:B:2632:ILE:H	1:B:2632:ILE:HG13	1.39	0.40
1:B:2723:MET:SD	1:B:2727:ARG:NH1	2.85	0.40
1:D:107:ASN:HA	1:D:110:LEU:HB2	2.03	0.40
1:D:1086:HIS:C	1:D:1088:SER:N	2.74	0.40
1:D:2252:ASN:HA	1:D:2255:ASN:ND2	2.35	0.40
1:D:2286:LEU:CA	1:D:2289:LEU:HD11	2.50	0.40
1:D:2409:HIS:HD1	1:D:2409:HIS:C	2.24	0.40
1:D:2577:VAL:O	1:D:2577:VAL:CG1	2.69	0.40
1:D:2738:HIS:O	1:D:2738:HIS:CG	2.70	0.40
1:A:2573:PHE:CD1	1:A:2577:VAL:HG23	2.56	0.40
1:C:162:TYR:CZ	1:C:187:VAL:HG22	2.56	0.40
1:C:885:LEU:O	1:C:888:THR:C	2.55	0.40
1:C:1116:LYS:O	1:C:1118:ASP:N	2.54	0.40
1:C:2430:VAL:HG12	1:C:2593:PHE:CZ	2.56	0.40
1:C:2554:ARG:HH21	1:C:2556:PRO:HD3	1.85	0.40
1:C:2573:PHE:CD1	1:C:2577:VAL:HG23	2.56	0.40
1:C:2582:LEU:HA	1:C:2582:LEU:HD23	1.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2706:MET:O	1:B:2707:LYS:NZ	2.53	0.40
1:B:514:ASN:O	1:B:516:LEU:N	2.51	0.40
1:B:2430:VAL:HG12	1:B:2593:PHE:CZ	2.56	0.40
1:B:2524:LYS:HD3	1:B:2524:LYS:HA	1.78	0.40
1:B:2713:SER:HA	1:B:2716:LEU:CD2	2.44	0.40
1:B:2738:HIS:O	1:B:2739:PRO:C	2.48	0.40
1:D:108:ARG:O	1:D:108:ARG:CZ	2.69	0.40
1:D:127:LYS:O	1:D:441:ARG:HG2	2.22	0.40
1:D:477:LEU:CD2	1:D:556:CYS:HB3	2.51	0.40
1:D:2243:PHE:HE2	1:D:2638:MET:CB	2.01	0.40
1:D:2353:THR:HA	1:D:2356:LEU:HD23	2.03	0.40
1:D:2558:LYS:HD3	1:D:2558:LYS:HA	1.77	0.40
1:A:108:ARG:O	1:A:108:ARG:CZ	2.69	0.40
1:A:449:ALA:O	1:A:453:LEU:N	2.30	0.40
1:A:1209:GLY:C	1:A:1259:ILE:CA	2.90	0.40
1:A:2279:ILE:HD13	1:A:2279:ILE:HA	1.71	0.40
1:A:2407:PHE:HD1	1:A:2408:VAL:HG22	1.86	0.40
1:A:2537:THR:OG1	1:A:2538:VAL:N	2.55	0.40
1:A:2639:TRP:CE3	1:A:2642:LEU:HB2	2.56	0.40
1:A:2647:LEU:O	1:A:2650:VAL:CG2	2.69	0.40
1:C:194:HIS:N	1:C:210:ASN:O	2.36	0.40
1:C:840:VAL:O	1:C:844:LEU:CA	2.69	0.40
1:C:2160:ALA:O	1:C:2164:ALA:N	2.53	0.40
1:C:2406:LEU:C	1:C:2406:LEU:HD23	2.41	0.40
1:C:2419:ASP:HA	1:C:2422:TYR:HB3	2.03	0.40
1:C:2623:ASN:OD1	1:B:2677:ARG:CD	2.56	0.40
1:C:2639:TRP:CE3	1:C:2642:LEU:HB2	2.56	0.40
1:B:91:LYS:HA	1:B:94:HIS:CD2	2.56	0.40
1:B:486:GLY:CA	1:B:510:MET:HE3	2.43	0.40
1:D:299:TRP:CZ2	1:D:380:SER:CB	2.99	0.40
1:D:516:LEU:HB2	1:D:517:LYS:HE2	2.03	0.40
1:D:562:HIS:ND1	1:D:562:HIS:C	2.72	0.40
1:D:886:ARG:C	1:D:889:LYS:N	2.75	0.40
1:D:2288:ASN:O	1:D:2289:LEU:C	2.57	0.40
1:D:2559:GLU:O	1:D:2562:LEU:HB2	2.20	0.40
1:A:602:ASN:CA	1:A:606:LEU:H	2.34	0.40
1:A:2353:THR:HA	1:A:2356:LEU:HD23	2.03	0.40
1:A:2406:LEU:C	1:A:2406:LEU:HD23	2.41	0.40
1:C:60:LEU:HD13	1:C:60:LEU:HA	1.97	0.40
1:C:256:HIS:NE2	1:C:409:GLU:OE1	2.55	0.40
1:B:1032:HIS:O	1:B:1036:GLN:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1380:GLU:CA	1:B:1423:TYR:O	2.69	0.40
1:B:2343:ARG:HB3	1:B:2346:PHE:HE2	1.87	0.40
1:B:2412:PHE:CD1	1:B:2415:LEU:HD12	2.57	0.40
1:B:2597:ARG:O	1:B:2600:LYS:N	2.50	0.40
1:D:64:ASN:CG	1:D:107:ASN:HD21	2.25	0.40
1:D:438:ALA:HA	1:D:441:ARG:NH2	2.36	0.40
1:D:523:LEU:C	1:D:523:LEU:CD2	2.85	0.40
1:D:2397:LEU:HD23	1:D:2400:LEU:HB2	2.04	0.40
1:A:1085:ARG:O	1:A:1088:SER:N	2.47	0.40
1:A:1116:LYS:O	1:A:1118:ASP:N	2.54	0.40
1:A:1634:GLU:O	1:A:1637:PHE:C	2.58	0.40
1:A:2400:LEU:HD23	1:A:2400:LEU:HA	1.69	0.40
1:A:2409:HIS:HD1	1:A:2409:HIS:C	2.24	0.40
1:A:2412:PHE:CD1	1:A:2415:LEU:HD12	2.57	0.40
1:A:2578:ILE:O	1:A:2582:LEU:HB2	2.21	0.40
1:A:2729:GLN:O	1:A:2730:LYS:C	2.60	0.40
1:C:2031:ALA:O	1:C:2035:GLN:N	2.44	0.40
1:C:2696:ARG:NH2	1:B:2696:ARG:NH2	2.68	0.40
1:B:73:TRP:HZ3	1:B:156:ASN:HD21	1.69	0.40
1:B:237:GLY:O	1:B:238:ASP:C	2.60	0.40
1:B:554:ARG:NH1	1:B:585:ILE:HD13	2.35	0.40
1:D:132:LEU:O	1:D:159:SER:OG	2.30	0.40
1:D:162:TYR:CZ	1:D:187:VAL:HG22	2.56	0.40
1:D:363:ASP:OD1	1:D:363:ASP:N	2.55	0.40
1:D:1032:HIS:O	1:D:1036:GLN:N	2.55	0.40
1:D:2256:TRP:CZ2	1:D:2377:GLY:N	2.89	0.40
1:D:2732:ARG:HD2	1:D:2733:ILE:HD13	2.03	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	A	2109/2739 (77%)	1793 (85%)	255 (12%)	61 (3%)	3	27
1	B	2109/2739 (77%)	1793 (85%)	255 (12%)	61 (3%)	3	27
1	C	2109/2739 (77%)	1792 (85%)	256 (12%)	61 (3%)	3	27
1	D	2109/2739 (77%)	1792 (85%)	256 (12%)	61 (3%)	3	27
All	All	8436/10956 (77%)	7170 (85%)	1022 (12%)	244 (3%)	6	27

All (244) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	271	SER
1	A	646	PRO
1	A	663	ASP
1	A	761	VAL
1	A	772	ASN
1	A	794	PRO
1	A	896	ASP
1	A	1098	LYS
1	A	1246	ALA
1	A	1316	VAL
1	A	1344	PHE
1	A	1385	CYS
1	A	1405	ASP
1	A	1441	ILE
1	A	1620	GLN
1	A	1653	ILE
1	A	1667	ASN
1	A	1852	LYS
1	A	1980	HIS
1	A	2063	ILE
1	A	2180	VAL
1	A	2351	GLN
1	A	2413	TYR
1	A	2433	SER
1	A	2650	VAL
1	A	2696	ARG
1	C	271	SER
1	C	646	PRO
1	C	663	ASP
1	C	761	VAL
1	C	772	ASN
1	C	794	PRO
1	C	896	ASP

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Mol	Chain	Res	Type
1	C	1098	LYS
1	C	1246	ALA
1	C	1316	VAL
1	C	1344	PHE
1	C	1385	CYS
1	C	1405	ASP
1	C	1441	ILE
1	C	1620	GLN
1	C	1653	ILE
1	C	1667	ASN
1	C	1852	LYS
1	C	1980	HIS
1	C	2063	ILE
1	C	2180	VAL
1	C	2351	GLN
1	C	2413	TYR
1	C	2433	SER
1	C	2650	VAL
1	C	2696	ARG
1	B	271	SER
1	B	646	PRO
1	B	663	ASP
1	B	761	VAL
1	B	772	ASN
1	B	794	PRO
1	B	896	ASP
1	B	1098	LYS
1	B	1246	ALA
1	B	1316	VAL
1	B	1344	PHE
1	B	1385	CYS
1	B	1405	ASP
1	B	1441	ILE
1	B	1620	GLN
1	B	1653	ILE
1	B	1667	ASN
1	B	1852	LYS
1	B	1980	HIS
1	B	2063	ILE
1	B	2180	VAL
1	B	2351	GLN
1	B	2413	TYR

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Mol	Chain	Res	Type
1	B	2433	SER
1	B	2650	VAL
1	B	2696	ARG
1	D	271	SER
1	D	646	PRO
1	D	663	ASP
1	D	761	VAL
1	D	772	ASN
1	D	794	PRO
1	D	896	ASP
1	D	1098	LYS
1	D	1246	ALA
1	D	1316	VAL
1	D	1344	PHE
1	D	1385	CYS
1	D	1405	ASP
1	D	1441	ILE
1	D	1620	GLN
1	D	1653	ILE
1	D	1667	ASN
1	D	1852	LYS
1	D	1980	HIS
1	D	2063	ILE
1	D	2180	VAL
1	D	2351	GLN
1	D	2413	TYR
1	D	2433	SER
1	D	2650	VAL
1	D	2696	ARG
1	A	515	ILE
1	A	547	ALA
1	A	637	LEU
1	A	825	SER
1	A	1684	THR
1	A	2021	LEU
1	A	2022	GLY
1	A	2105	ASP
1	C	515	ILE
1	C	547	ALA
1	C	637	LEU
1	C	825	SER
1	C	1684	THR

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Mol	Chain	Res	Type
1	C	2021	LEU
1	C	2022	GLY
1	C	2105	ASP
1	B	515	ILE
1	B	547	ALA
1	B	637	LEU
1	B	825	SER
1	B	1684	THR
1	B	2021	LEU
1	B	2022	GLY
1	B	2105	ASP
1	D	515	ILE
1	D	547	ALA
1	D	637	LEU
1	D	825	SER
1	D	1684	THR
1	D	2021	LEU
1	D	2022	GLY
1	D	2105	ASP
1	A	610	ILE
1	A	773	LEU
1	A	1278	MET
1	A	2192	HIS
1	A	2286	LEU
1	A	2412	PHE
1	A	2626	VAL
1	C	610	ILE
1	C	773	LEU
1	C	1278	MET
1	C	2192	HIS
1	C	2286	LEU
1	C	2412	PHE
1	C	2626	VAL
1	B	610	ILE
1	B	773	LEU
1	B	1278	MET
1	B	2192	HIS
1	B	2286	LEU
1	B	2412	PHE
1	B	2626	VAL
1	D	610	ILE
1	D	773	LEU

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Mol	Chain	Res	Type
1	D	1278	MET
1	D	2192	HIS
1	D	2286	LEU
1	D	2412	PHE
1	D	2626	VAL
1	A	639	VAL
1	A	1007	GLN
1	A	1101	GLN
1	A	1412	HIS
1	A	2047	PRO
1	A	2143	GLU
1	A	2182	GLY
1	A	2410	GLU
1	C	639	VAL
1	C	1007	GLN
1	C	1101	GLN
1	C	1412	HIS
1	C	2047	PRO
1	C	2143	GLU
1	C	2182	GLY
1	C	2410	GLU
1	B	639	VAL
1	B	1007	GLN
1	B	1101	GLN
1	B	1412	HIS
1	B	2047	PRO
1	B	2143	GLU
1	B	2182	GLY
1	B	2410	GLU
1	D	639	VAL
1	D	1007	GLN
1	D	1101	GLN
1	D	1412	HIS
1	D	2047	PRO
1	D	2143	GLU
1	D	2182	GLY
1	D	2410	GLU
1	A	84	THR
1	A	1306	VAL
1	A	1525	LEU
1	A	1991	GLN
1	A	2381	ARG

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Mol	Chain	Res	Type
1	A	2681	MET
1	C	1306	VAL
1	C	1525	LEU
1	C	1991	GLN
1	C	2381	ARG
1	C	2681	MET
1	B	84	THR
1	B	1306	VAL
1	B	1525	LEU
1	B	1991	GLN
1	B	2381	ARG
1	B	2681	MET
1	D	84	THR
1	D	1306	VAL
1	D	1525	LEU
1	D	1991	GLN
1	D	2381	ARG
1	D	2681	MET
1	A	2079	LYS
1	C	84	THR
1	C	2079	LYS
1	B	2079	LYS
1	D	2079	LYS
1	A	1100	VAL
1	C	1100	VAL
1	B	1100	VAL
1	D	1100	VAL
1	A	1962	VAL
1	A	2348	VAL
1	C	1962	VAL
1	C	2348	VAL
1	B	1962	VAL
1	B	2348	VAL
1	D	1962	VAL
1	D	2348	VAL
1	A	2062	GLY
1	A	2405	GLY
1	C	2062	GLY
1	C	2405	GLY
1	B	2062	GLY
1	B	2405	GLY
1	D	2062	GLY

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Mol	Chain	Res	Type
1	D	2405	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	A	857/2449 (35%)	711 (83%)	146 (17%)	1	11
1	B	857/2449 (35%)	712 (83%)	145 (17%)	1	11
1	C	857/2449 (35%)	712 (83%)	145 (17%)	1	11
1	D	857/2449 (35%)	710 (83%)	147 (17%)	1	10
All	All	3428/9796 (35%)	2845 (83%)	583 (17%)	4	11

All (583) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	74	LYS
1	A	77	LYS
1	A	78	PRO
1	A	81	ASN
1	A	85	ASP
1	A	88	LEU
1	A	89	LEU
1	A	90	ASN
1	A	92	LEU
1	A	94	HIS
1	A	97	ASP
1	A	99	GLU
1	A	102	GLN
1	A	105	THR
1	A	108	ARG
1	A	185	ASN
1	A	265	ARG
1	A	269	ARG
1	A	270	GLN
1	A	288	GLN

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Mol	Chain	Res	Type
1	A	300	ASN
1	A	403	ASN
1	A	442	ASP
1	A	443	LEU
1	A	501	LYS
1	A	509	LEU
1	A	515	ILE
1	A	516	LEU
1	A	517	LYS
1	A	520	PHE
1	A	523	LEU
1	A	526	PRO
1	A	527	PHE
1	A	546	HIS
1	A	549	PHE
1	A	553	CYS
1	A	554	ARG
1	A	562	HIS
1	A	572	GLU
1	A	580	PHE
1	A	581	MET
1	A	582	GLN
1	A	584	GLN
1	A	2184	GLU
1	A	2187	GLU
1	A	2198	ILE
1	A	2201	LEU
1	A	2203	ARG
1	A	2204	THR
1	A	2208	ILE
1	A	2221	LYS
1	A	2225	LEU
1	A	2240	ILE
1	A	2241	ASN
1	A	2243	PHE
1	A	2245	LEU
1	A	2248	GLU
1	A	2250	LEU
1	A	2251	PHE
1	A	2253	GLU
1	A	2254	MET
1	A	2267	TYR

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Mol	Chain	Res	Type
1	A	2269	CYS
1	A	2271	ARG
1	A	2275	PHE
1	A	2286	LEU
1	A	2289	LEU
1	A	2291	VAL
1	A	2341	ILE
1	A	2354	LEU
1	A	2356	LEU
1	A	2357	LEU
1	A	2360	PHE
1	A	2363	CYS
1	A	2366	ILE
1	A	2370	MET
1	A	2372	PHE
1	A	2376	CYS
1	A	2378	THR
1	A	2380	THR
1	A	2381	ARG
1	A	2388	LEU
1	A	2392	PHE
1	A	2393	LEU
1	A	2396	LEU
1	A	2397	LEU
1	A	2399	LEU
1	A	2401	ILE
1	A	2402	CYS
1	A	2404	MET
1	A	2406	LEU
1	A	2407	PHE
1	A	2408	VAL
1	A	2409	HIS
1	A	2415	LEU
1	A	2418	PHE
1	A	2421	VAL
1	A	2422	TYR
1	A	2423	ARG
1	A	2430	VAL
1	A	2437	ASN
1	A	2441	ILE
1	A	2447	LEU
1	A	2461	LEU

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Mol	Chain	Res	Type
1	A	2524	LYS
1	A	2531	LEU
1	A	2535	ILE
1	A	2541	HIS
1	A	2543	LEU
1	A	2554	ARG
1	A	2558	LYS
1	A	2566	ARG
1	A	2571	LEU
1	A	2576	MET
1	A	2581	VAL
1	A	2596	LEU
1	A	2608	LYS
1	A	2616	LEU
1	A	2618	ARG
1	A	2619	ASP
1	A	2624	LYS
1	A	2632	ILE
1	A	2639	TRP
1	A	2642	LEU
1	A	2646	VAL
1	A	2649	LYS
1	A	2651	LYS
1	A	2665	GLU
1	A	2667	ILE
1	A	2670	ARG
1	A	2679	ARG
1	A	2683	LEU
1	A	2712	LEU
1	A	2715	GLN
1	A	2716	LEU
1	A	2718	GLU
1	A	2719	LEU
1	A	2720	LYS
1	A	2722	GLN
1	A	2724	THR
1	A	2726	GLN
1	A	2727	ARG
1	A	2730	LYS
1	A	2732	ARG
1	A	2733	ILE
1	A	2738	HIS

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Mol	Chain	Res	Type
1	C	74	LYS
1	C	77	LYS
1	C	78	PRO
1	C	81	ASN
1	C	85	ASP
1	C	88	LEU
1	C	89	LEU
1	C	90	ASN
1	C	92	LEU
1	C	94	HIS
1	C	97	ASP
1	C	99	GLU
1	C	102	GLN
1	C	105	THR
1	C	108	ARG
1	C	185	ASN
1	C	265	ARG
1	C	269	ARG
1	C	270	GLN
1	C	288	GLN
1	C	300	ASN
1	C	403	ASN
1	C	442	ASP
1	C	443	LEU
1	C	501	LYS
1	C	509	LEU
1	C	515	ILE
1	C	516	LEU
1	C	517	LYS
1	C	520	PHE
1	C	523	LEU
1	C	526	PRO
1	C	527	PHE
1	C	546	HIS
1	C	549	PHE
1	C	553	CYS
1	C	554	ARG
1	C	562	HIS
1	C	572	GLU
1	C	580	PHE
1	C	581	MET
1	C	582	GLN

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Mol	Chain	Res	Type
1	C	584	GLN
1	C	2184	GLU
1	C	2187	GLU
1	C	2198	ILE
1	C	2201	LEU
1	C	2203	ARG
1	C	2204	THR
1	C	2208	ILE
1	C	2221	LYS
1	C	2225	LEU
1	C	2240	ILE
1	C	2241	ASN
1	C	2243	PHE
1	C	2245	LEU
1	C	2248	GLU
1	C	2250	LEU
1	C	2251	PHE
1	C	2253	GLU
1	C	2254	MET
1	C	2267	TYR
1	C	2269	CYS
1	C	2271	ARG
1	C	2275	PHE
1	C	2286	LEU
1	C	2289	LEU
1	C	2291	VAL
1	C	2341	ILE
1	C	2354	LEU
1	C	2356	LEU
1	C	2357	LEU
1	C	2360	PHE
1	C	2363	CYS
1	C	2366	ILE
1	C	2370	MET
1	C	2372	PHE
1	C	2376	CYS
1	C	2378	THR
1	C	2380	THR
1	C	2381	ARG
1	C	2388	LEU
1	C	2392	PHE
1	C	2393	LEU

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Mol	Chain	Res	Type
1	C	2396	LEU
1	C	2397	LEU
1	C	2399	LEU
1	C	2401	ILE
1	C	2402	CYS
1	C	2404	MET
1	C	2406	LEU
1	C	2407	PHE
1	C	2408	VAL
1	C	2409	HIS
1	C	2415	LEU
1	C	2418	PHE
1	C	2421	VAL
1	C	2422	TYR
1	C	2423	ARG
1	C	2430	VAL
1	C	2437	ASN
1	C	2441	ILE
1	C	2447	LEU
1	C	2461	LEU
1	C	2524	LYS
1	C	2531	LEU
1	C	2541	HIS
1	C	2543	LEU
1	C	2554	ARG
1	C	2558	LYS
1	C	2566	ARG
1	C	2571	LEU
1	C	2576	MET
1	C	2581	VAL
1	C	2596	LEU
1	C	2608	LYS
1	C	2616	LEU
1	C	2618	ARG
1	C	2619	ASP
1	C	2624	LYS
1	C	2632	ILE
1	C	2639	TRP
1	C	2642	LEU
1	C	2646	VAL
1	C	2649	LYS
1	C	2651	LYS

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Mol	Chain	Res	Type
1	C	2665	GLU
1	C	2667	ILE
1	C	2670	ARG
1	C	2679	ARG
1	C	2683	LEU
1	C	2712	LEU
1	C	2715	GLN
1	C	2716	LEU
1	C	2718	GLU
1	C	2719	LEU
1	C	2720	LYS
1	C	2722	GLN
1	C	2724	THR
1	C	2726	GLN
1	C	2727	ARG
1	C	2730	LYS
1	C	2732	ARG
1	C	2733	ILE
1	C	2738	HIS
1	B	74	LYS
1	B	77	LYS
1	B	78	PRO
1	B	81	ASN
1	B	85	ASP
1	B	88	LEU
1	B	89	LEU
1	B	90	ASN
1	B	92	LEU
1	B	94	HIS
1	B	97	ASP
1	B	99	GLU
1	B	102	GLN
1	B	105	THR
1	B	108	ARG
1	B	185	ASN
1	B	265	ARG
1	B	269	ARG
1	B	270	GLN
1	B	288	GLN
1	B	300	ASN
1	B	403	ASN
1	B	442	ASP

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Mol	Chain	Res	Type
1	B	443	LEU
1	B	501	LYS
1	B	509	LEU
1	B	515	ILE
1	B	516	LEU
1	B	517	LYS
1	B	520	PHE
1	B	523	LEU
1	B	526	PRO
1	B	527	PHE
1	B	546	HIS
1	B	549	PHE
1	B	553	CYS
1	B	554	ARG
1	B	562	HIS
1	B	572	GLU
1	B	580	PHE
1	B	581	MET
1	B	582	GLN
1	B	584	GLN
1	B	2184	GLU
1	B	2187	GLU
1	B	2198	ILE
1	B	2201	LEU
1	B	2203	ARG
1	B	2204	THR
1	B	2208	ILE
1	B	2221	LYS
1	B	2225	LEU
1	B	2240	ILE
1	B	2241	ASN
1	B	2243	PHE
1	B	2245	LEU
1	B	2248	GLU
1	B	2250	LEU
1	B	2251	PHE
1	B	2253	GLU
1	B	2254	MET
1	B	2267	TYR
1	B	2269	CYS
1	B	2271	ARG
1	B	2275	PHE

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Mol	Chain	Res	Type
1	B	2286	LEU
1	B	2289	LEU
1	B	2291	VAL
1	B	2341	ILE
1	B	2354	LEU
1	B	2356	LEU
1	B	2357	LEU
1	B	2360	PHE
1	B	2363	CYS
1	B	2366	ILE
1	B	2370	MET
1	B	2372	PHE
1	B	2376	CYS
1	B	2378	THR
1	B	2380	THR
1	B	2381	ARG
1	B	2388	LEU
1	B	2392	PHE
1	B	2393	LEU
1	B	2396	LEU
1	B	2397	LEU
1	B	2399	LEU
1	B	2401	ILE
1	B	2402	CYS
1	B	2404	MET
1	B	2406	LEU
1	B	2407	PHE
1	B	2408	VAL
1	B	2409	HIS
1	B	2415	LEU
1	B	2418	PHE
1	B	2421	VAL
1	B	2422	TYR
1	B	2423	ARG
1	B	2430	VAL
1	B	2437	ASN
1	B	2441	ILE
1	B	2447	LEU
1	B	2461	LEU
1	B	2524	LYS
1	B	2531	LEU
1	B	2541	HIS

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Mol	Chain	Res	Type
1	B	2543	LEU
1	B	2554	ARG
1	B	2558	LYS
1	B	2566	ARG
1	B	2571	LEU
1	B	2576	MET
1	B	2581	VAL
1	B	2596	LEU
1	B	2608	LYS
1	B	2616	LEU
1	B	2618	ARG
1	B	2619	ASP
1	B	2624	LYS
1	B	2632	ILE
1	B	2639	TRP
1	B	2642	LEU
1	B	2646	VAL
1	B	2649	LYS
1	B	2651	LYS
1	B	2665	GLU
1	B	2667	ILE
1	B	2670	ARG
1	B	2679	ARG
1	B	2683	LEU
1	B	2712	LEU
1	B	2715	GLN
1	B	2716	LEU
1	B	2718	GLU
1	B	2719	LEU
1	B	2720	LYS
1	B	2722	GLN
1	B	2724	THR
1	B	2726	GLN
1	B	2727	ARG
1	B	2730	LYS
1	B	2732	ARG
1	B	2733	ILE
1	B	2738	HIS
1	D	74	LYS
1	D	77	LYS
1	D	78	PRO
1	D	81	ASN

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Mol	Chain	Res	Type
1	D	85	ASP
1	D	88	LEU
1	D	89	LEU
1	D	90	ASN
1	D	92	LEU
1	D	94	HIS
1	D	97	ASP
1	D	99	GLU
1	D	102	GLN
1	D	105	THR
1	D	108	ARG
1	D	185	ASN
1	D	265	ARG
1	D	269	ARG
1	D	270	GLN
1	D	288	GLN
1	D	300	ASN
1	D	403	ASN
1	D	442	ASP
1	D	443	LEU
1	D	501	LYS
1	D	509	LEU
1	D	515	ILE
1	D	516	LEU
1	D	517	LYS
1	D	520	PHE
1	D	523	LEU
1	D	526	PRO
1	D	527	PHE
1	D	546	HIS
1	D	549	PHE
1	D	553	CYS
1	D	554	ARG
1	D	562	HIS
1	D	572	GLU
1	D	580	PHE
1	D	581	MET
1	D	582	GLN
1	D	584	GLN
1	D	2184	GLU
1	D	2187	GLU
1	D	2198	ILE

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Mol	Chain	Res	Type
1	D	2201	LEU
1	D	2203	ARG
1	D	2204	THR
1	D	2208	ILE
1	D	2221	LYS
1	D	2225	LEU
1	D	2240	ILE
1	D	2241	ASN
1	D	2243	PHE
1	D	2245	LEU
1	D	2248	GLU
1	D	2250	LEU
1	D	2251	PHE
1	D	2253	GLU
1	D	2254	MET
1	D	2267	TYR
1	D	2269	CYS
1	D	2271	ARG
1	D	2275	PHE
1	D	2279	ILE
1	D	2286	LEU
1	D	2289	LEU
1	D	2291	VAL
1	D	2341	ILE
1	D	2354	LEU
1	D	2356	LEU
1	D	2357	LEU
1	D	2360	PHE
1	D	2363	CYS
1	D	2366	ILE
1	D	2370	MET
1	D	2372	PHE
1	D	2376	CYS
1	D	2378	THR
1	D	2380	THR
1	D	2381	ARG
1	D	2388	LEU
1	D	2392	PHE
1	D	2393	LEU
1	D	2396	LEU
1	D	2397	LEU
1	D	2399	LEU

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Mol	Chain	Res	Type
1	D	2401	ILE
1	D	2402	CYS
1	D	2404	MET
1	D	2406	LEU
1	D	2407	PHE
1	D	2408	VAL
1	D	2409	HIS
1	D	2415	LEU
1	D	2418	PHE
1	D	2421	VAL
1	D	2422	TYR
1	D	2423	ARG
1	D	2430	VAL
1	D	2437	ASN
1	D	2441	ILE
1	D	2447	LEU
1	D	2454	LEU
1	D	2461	LEU
1	D	2524	LYS
1	D	2531	LEU
1	D	2541	HIS
1	D	2543	LEU
1	D	2554	ARG
1	D	2558	LYS
1	D	2566	ARG
1	D	2571	LEU
1	D	2576	MET
1	D	2581	VAL
1	D	2596	LEU
1	D	2608	LYS
1	D	2616	LEU
1	D	2618	ARG
1	D	2619	ASP
1	D	2624	LYS
1	D	2632	ILE
1	D	2639	TRP
1	D	2642	LEU
1	D	2646	VAL
1	D	2649	LYS
1	D	2651	LYS
1	D	2665	GLU
1	D	2667	ILE

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Mol	Chain	Res	Type
1	D	2670	ARG
1	D	2679	ARG
1	D	2683	LEU
1	D	2712	LEU
1	D	2715	GLN
1	D	2716	LEU
1	D	2718	GLU
1	D	2719	LEU
1	D	2720	LYS
1	D	2722	GLN
1	D	2724	THR
1	D	2726	GLN
1	D	2727	ARG
1	D	2730	LYS
1	D	2732	ARG
1	D	2733	ILE
1	D	2738	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (110) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	69	GLN
1	A	81	ASN
1	A	102	GLN
1	A	107	ASN
1	A	135	ASN
1	A	156	ASN
1	A	185	ASN
1	A	194	HIS
1	A	198	HIS
1	A	203	ASN
1	A	261	HIS
1	A	270	GLN
1	A	288	GLN
1	A	312	HIS
1	A	403	ASN
1	A	565	GLN
1	A	571	GLN
1	A	582	GLN
1	A	2255	ASN
1	A	2361	ASN
1	A	2364	ASN

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Mol	Chain	Res	Type
1	A	2437	ASN
1	A	2637	ASN
1	A	2640	HIS
1	A	2711	ASN
1	A	2722	GLN
1	C	69	GLN
1	C	81	ASN
1	C	102	GLN
1	C	107	ASN
1	C	135	ASN
1	C	156	ASN
1	C	185	ASN
1	C	194	HIS
1	C	198	HIS
1	C	203	ASN
1	C	261	HIS
1	C	270	GLN
1	C	288	GLN
1	C	312	HIS
1	C	403	ASN
1	C	565	GLN
1	C	571	GLN
1	C	582	GLN
1	C	584	GLN
1	C	2255	ASN
1	C	2361	ASN
1	C	2364	ASN
1	C	2437	ASN
1	C	2637	ASN
1	C	2640	HIS
1	C	2711	ASN
1	C	2722	GLN
1	B	69	GLN
1	B	81	ASN
1	B	102	GLN
1	B	107	ASN
1	B	135	ASN
1	B	156	ASN
1	B	185	ASN
1	B	194	HIS
1	B	198	HIS
1	B	203	ASN

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Mol	Chain	Res	Type
1	B	261	HIS
1	B	270	GLN
1	B	288	GLN
1	B	312	HIS
1	B	403	ASN
1	B	565	GLN
1	B	571	GLN
1	B	582	GLN
1	B	584	GLN
1	B	2255	ASN
1	B	2361	ASN
1	B	2364	ASN
1	B	2437	ASN
1	B	2637	ASN
1	B	2640	HIS
1	B	2711	ASN
1	B	2715	GLN
1	B	2722	GLN
1	D	69	GLN
1	D	81	ASN
1	D	102	GLN
1	D	107	ASN
1	D	135	ASN
1	D	156	ASN
1	D	185	ASN
1	D	194	HIS
1	D	198	HIS
1	D	203	ASN
1	D	261	HIS
1	D	270	GLN
1	D	288	GLN
1	D	312	HIS
1	D	403	ASN
1	D	565	GLN
1	D	571	GLN
1	D	582	GLN
1	D	584	GLN
1	D	2255	ASN
1	D	2272	ASN
1	D	2361	ASN
1	D	2364	ASN
1	D	2437	ASN

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Mol	Chain	Res	Type
1	D	2637	ASN
1	D	2640	HIS
1	D	2711	ASN
1	D	2715	GLN
1	D	2722	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

4 ligands 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
2	JYP	A	2801	-	41,45,45	2.04	10 (24%)	58,70,70	1.52	5 (8%)
2	JYP	D	2801	-	41,45,45	2.05	10 (24%)	58,70,70	1.52	5 (8%)
2	JYP	B	2801	-	41,45,45	2.04	10 (24%)	58,70,70	1.52	5 (8%)
2	JYP	C	2801	-	41,45,45	2.05	9 (21%)	58,70,70	1.52	5 (8%)

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
2	JYP	A	2801	-	-	10/23/63/63	0/4/4/4
2	JYP	D	2801	-	-	10/23/63/63	0/4/4/4
2	JYP	B	2801	-	-	10/23/63/63	0/4/4/4
2	JYP	C	2801	-	-	10/23/63/63	0/4/4/4

All (39) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	2801	JYP	O1-C6	5.26	1.47	1.40
2	A	2801	JYP	O1-C6	5.20	1.47	1.40
2	B	2801	JYP	O1-C6	5.19	1.47	1.40
2	D	2801	JYP	O1-C6	5.18	1.47	1.40
2	D	2801	JYP	P3-O15	4.85	1.68	1.59
2	C	2801	JYP	P1-O6	4.85	1.68	1.59
2	D	2801	JYP	P1-O6	4.83	1.68	1.59
2	A	2801	JYP	P1-O6	4.82	1.68	1.59
2	C	2801	JYP	P3-O15	4.82	1.68	1.59
2	B	2801	JYP	P3-O15	4.82	1.68	1.59
2	A	2801	JYP	P3-O15	4.81	1.68	1.59
2	B	2801	JYP	P1-O6	4.80	1.67	1.59
2	D	2801	JYP	C3-N4	4.19	1.54	1.39
2	B	2801	JYP	C3-N4	4.19	1.54	1.39
2	A	2801	JYP	C3-N4	4.18	1.54	1.39
2	C	2801	JYP	C3-N4	4.17	1.54	1.39
2	D	2801	JYP	C4-N3	3.56	1.46	1.34
2	A	2801	JYP	C4-N3	3.56	1.46	1.34
2	B	2801	JYP	C4-N3	3.54	1.46	1.34
2	C	2801	JYP	C4-N3	3.53	1.46	1.34
2	D	2801	JYP	P2-O10	3.51	1.65	1.59
2	B	2801	JYP	P2-O10	3.48	1.65	1.59
2	A	2801	JYP	P2-O10	3.47	1.65	1.59
2	C	2801	JYP	P2-O10	3.46	1.65	1.59
2	A	2801	JYP	C8-C7	-3.38	1.46	1.53
2	C	2801	JYP	C8-C7	-3.38	1.46	1.53
2	B	2801	JYP	C8-C7	-3.36	1.46	1.53
2	D	2801	JYP	C8-C7	-3.35	1.46	1.53
2	B	2801	JYP	C1-N1	3.34	1.37	1.32
2	A	2801	JYP	C1-N1	3.34	1.37	1.32
2	D	2801	JYP	C1-N1	3.33	1.37	1.32
2	C	2801	JYP	C1-N1	3.32	1.37	1.32
2	C	2801	JYP	C5-N4	2.12	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	2801	JYP	C5-N4	2.11	1.38	1.34
2	B	2801	JYP	C5-N4	2.11	1.38	1.34
2	D	2801	JYP	C5-N4	2.07	1.38	1.34
2	B	2801	JYP	C4-C3	-2.01	1.35	1.43
2	A	2801	JYP	C4-C3	-2.01	1.35	1.43
2	D	2801	JYP	C4-C3	-2.01	1.35	1.43

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	2801	JYP	N1-C1-N2	-6.32	120.09	128.67
2	B	2801	JYP	N1-C1-N2	-6.32	120.10	128.67
2	A	2801	JYP	N1-C1-N2	-6.31	120.10	128.67
2	C	2801	JYP	N1-C1-N2	-6.30	120.12	128.67
2	D	2801	JYP	C6-N5-C2	-4.98	117.89	126.64
2	B	2801	JYP	C6-N5-C2	-4.96	117.92	126.64
2	A	2801	JYP	C6-N5-C2	-4.95	117.94	126.64
2	C	2801	JYP	C6-N5-C2	-4.93	117.98	126.64
2	C	2801	JYP	C11-O3-C8	-3.56	109.53	117.98
2	B	2801	JYP	C11-O3-C8	-3.56	109.53	117.98
2	A	2801	JYP	C11-O3-C8	-3.55	109.56	117.98
2	D	2801	JYP	C11-O3-C8	-3.55	109.56	117.98
2	D	2801	JYP	C2-C3-N4	-3.02	106.15	109.34
2	A	2801	JYP	C2-C3-N4	-3.00	106.17	109.34
2	B	2801	JYP	C2-C3-N4	-2.99	106.18	109.34
2	C	2801	JYP	C2-C3-N4	-2.97	106.19	109.34
2	C	2801	JYP	C9-O1-C6	-2.74	107.41	109.92
2	A	2801	JYP	C9-O1-C6	-2.73	107.42	109.92
2	B	2801	JYP	C9-O1-C6	-2.71	107.44	109.92
2	D	2801	JYP	C9-O1-C6	-2.71	107.45	109.92

There are no chirality outliers.

All (40) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	2801	JYP	C8-C7-O15-P3
2	C	2801	JYP	C8-C7-O15-P3
2	B	2801	JYP	C8-C7-O15-P3
2	D	2801	JYP	C8-C7-O15-P3
2	A	2801	JYP	O4-C15-C16-O5
2	C	2801	JYP	O4-C15-C16-O5
2	B	2801	JYP	O4-C15-C16-O5

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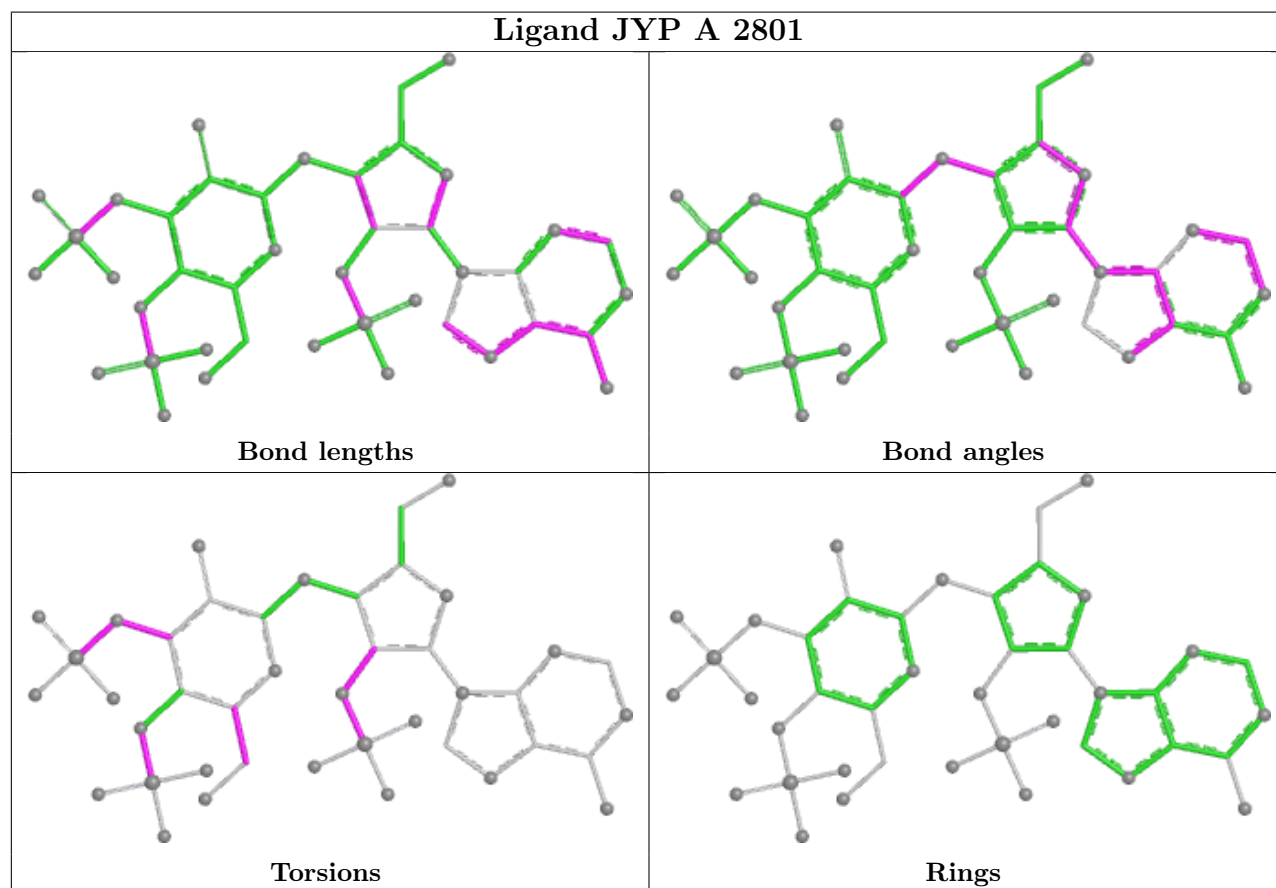
Mol	Chain	Res	Type	Atoms
2	D	2801	JYP	O4-C15-C16-O5
2	A	2801	JYP	C14-C15-C16-O5
2	C	2801	JYP	C14-C15-C16-O5
2	B	2801	JYP	C14-C15-C16-O5
2	D	2801	JYP	C14-C15-C16-O5
2	A	2801	JYP	C12-C13-O10-P2
2	C	2801	JYP	C12-C13-O10-P2
2	B	2801	JYP	C12-C13-O10-P2
2	D	2801	JYP	C12-C13-O10-P2
2	A	2801	JYP	C14-C13-O10-P2
2	C	2801	JYP	C14-C13-O10-P2
2	B	2801	JYP	C14-C13-O10-P2
2	D	2801	JYP	C14-C13-O10-P2
2	A	2801	JYP	C13-O10-P2-O13
2	C	2801	JYP	C13-O10-P2-O13
2	B	2801	JYP	C13-O10-P2-O13
2	D	2801	JYP	C13-O10-P2-O13
2	A	2801	JYP	C14-O6-P1-O8
2	A	2801	JYP	C7-O15-P3-O17
2	C	2801	JYP	C14-O6-P1-O8
2	C	2801	JYP	C7-O15-P3-O17
2	B	2801	JYP	C14-O6-P1-O8
2	B	2801	JYP	C7-O15-P3-O17
2	D	2801	JYP	C14-O6-P1-O8
2	D	2801	JYP	C7-O15-P3-O17
2	A	2801	JYP	C14-O6-P1-O7
2	A	2801	JYP	C14-O6-P1-O9
2	C	2801	JYP	C14-O6-P1-O7
2	C	2801	JYP	C14-O6-P1-O9
2	B	2801	JYP	C14-O6-P1-O7
2	B	2801	JYP	C14-O6-P1-O9
2	D	2801	JYP	C14-O6-P1-O7
2	D	2801	JYP	C14-O6-P1-O9

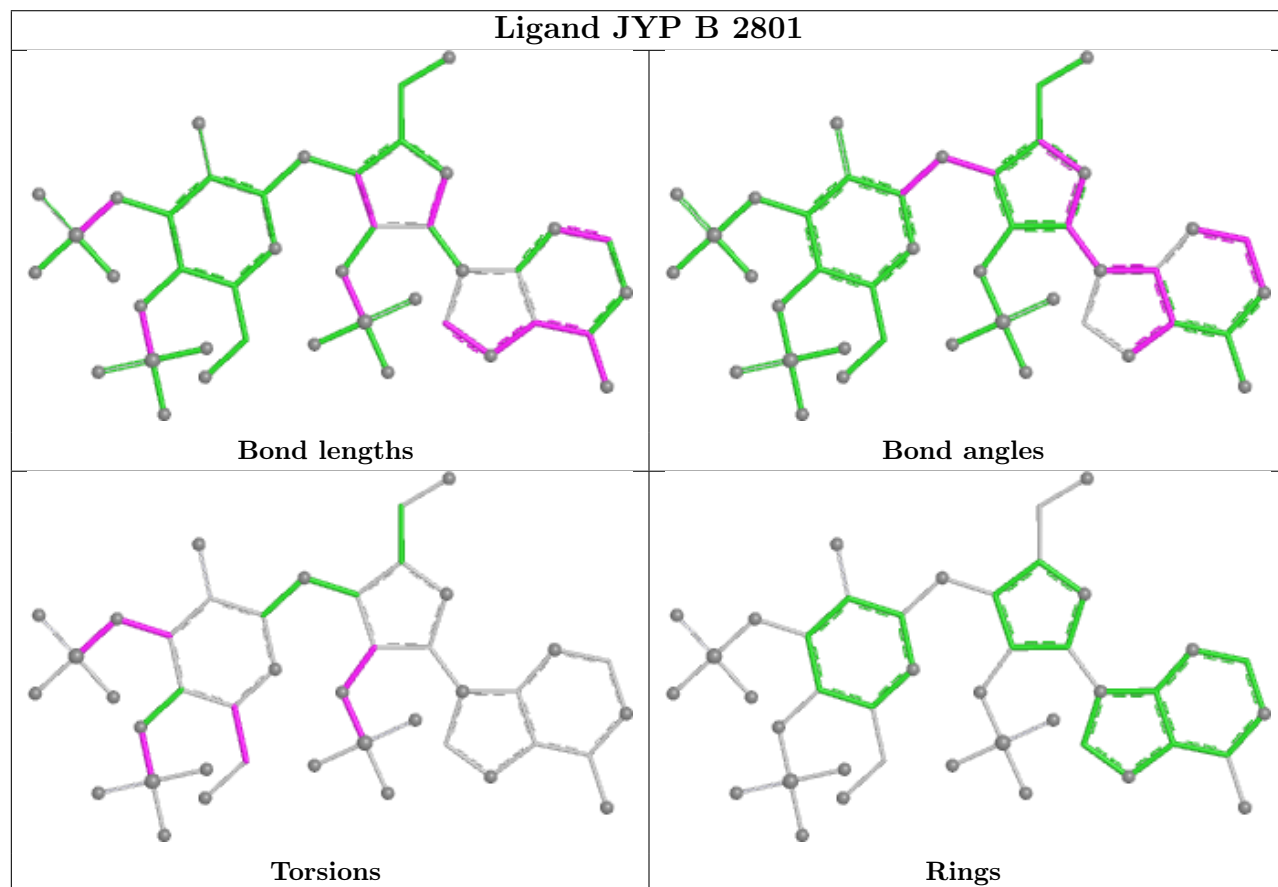
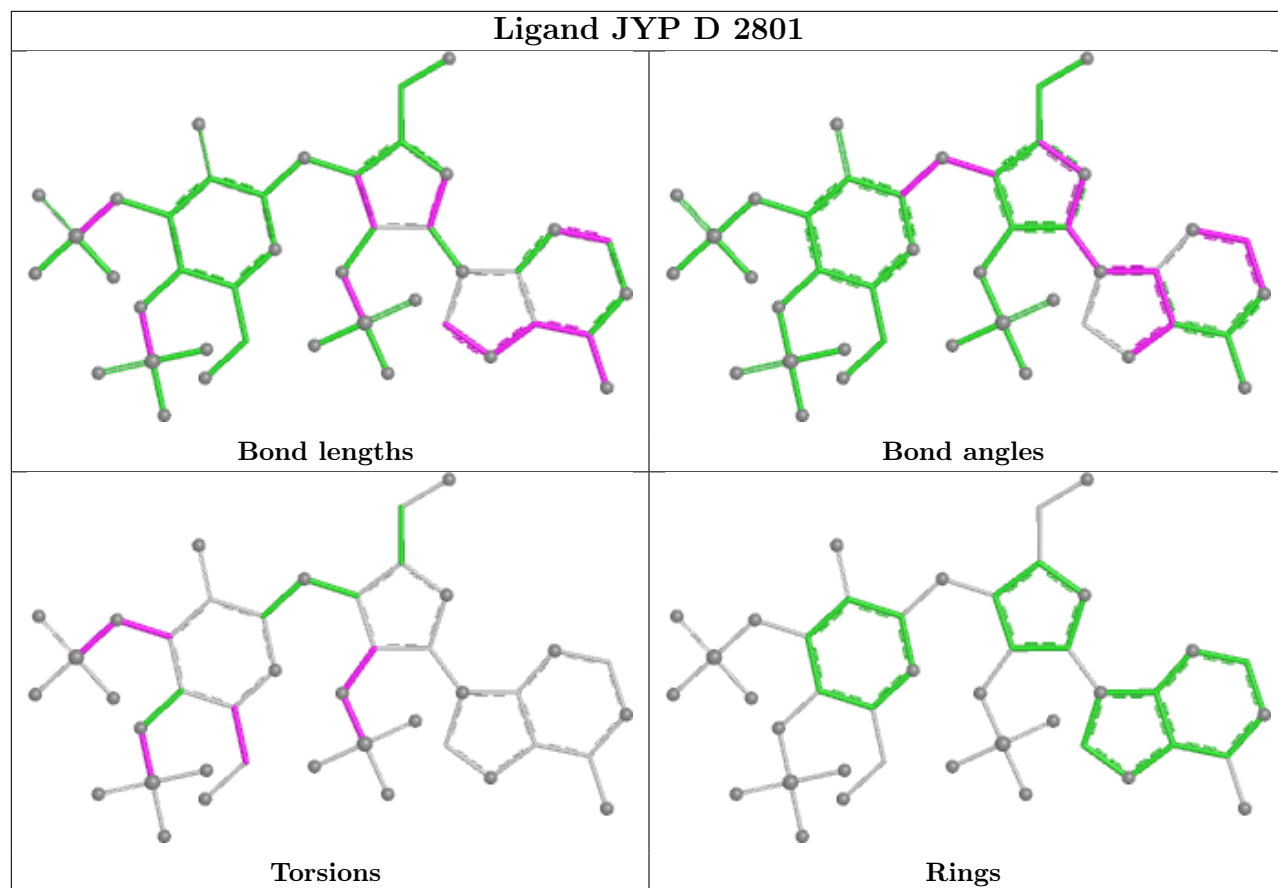
There are no ring outliers.

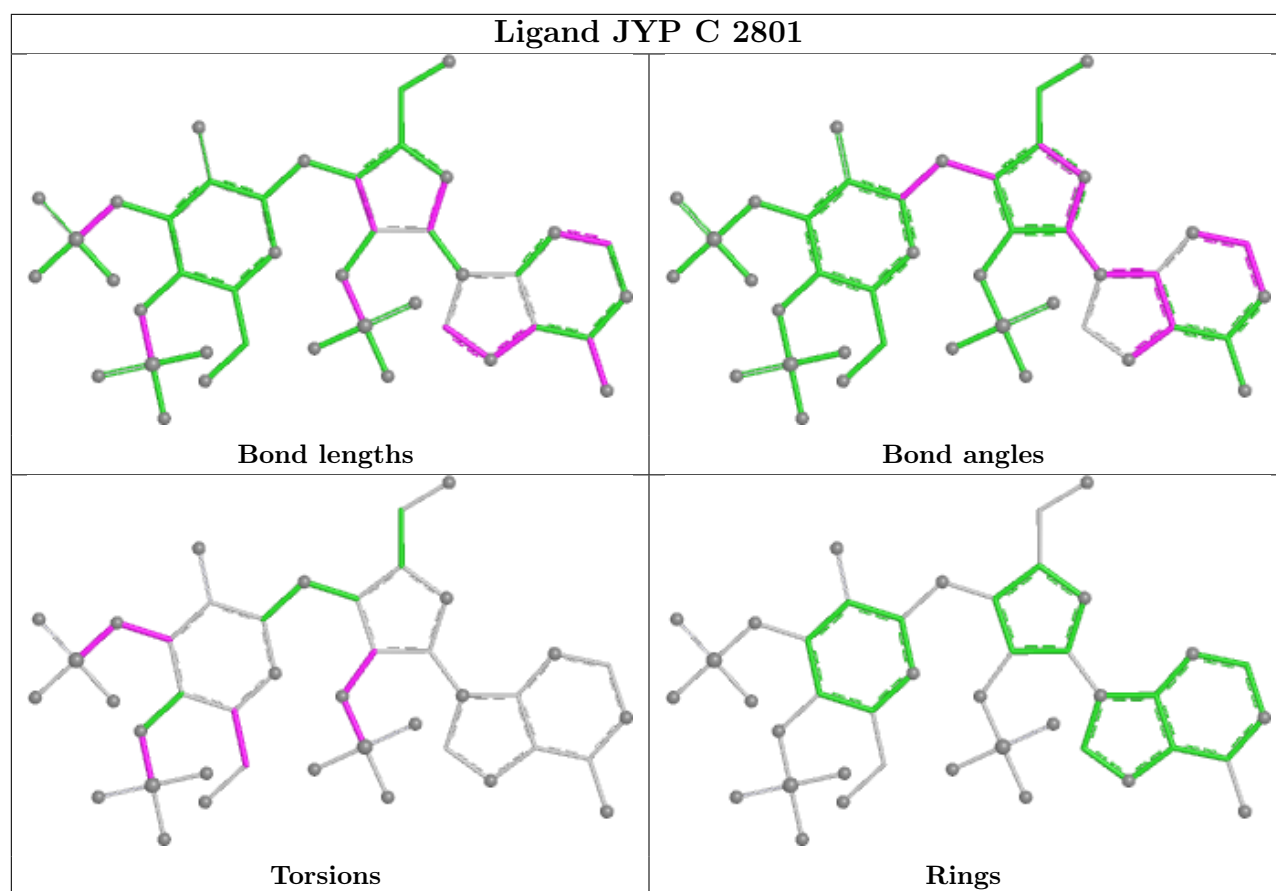
4 monomers are involved in 102 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	2801	JYP	26	0
2	D	2801	JYP	26	0
2	B	2801	JYP	25	0
2	C	2801	JYP	25	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.







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.

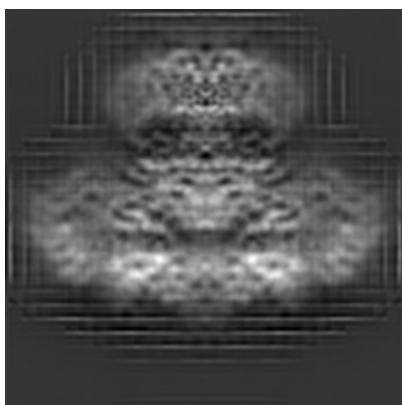
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9243. These allow visual inspection of the internal detail of the map and identification of artifacts.

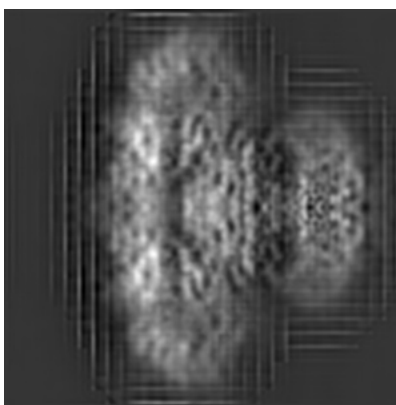
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

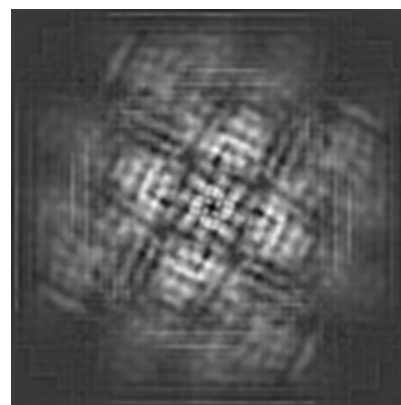
6.1.1 Primary map



X



Y

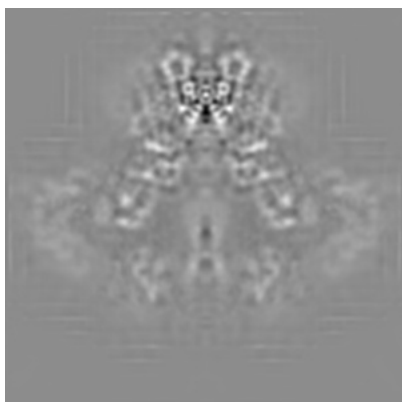


Z

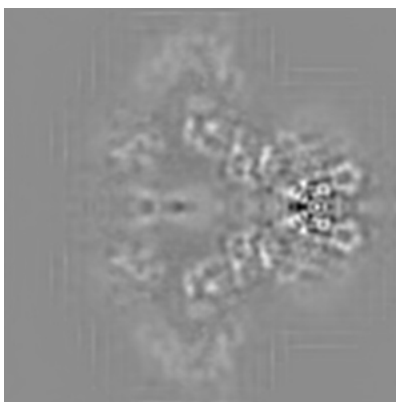
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

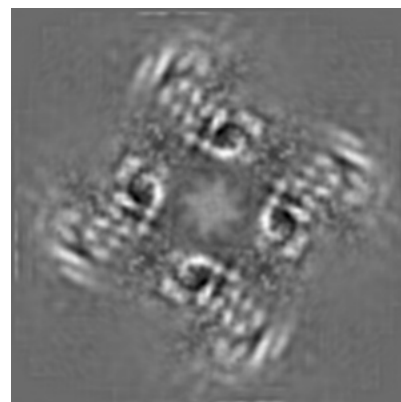
6.2.1 Primary map



X Index: 100



Y Index: 100

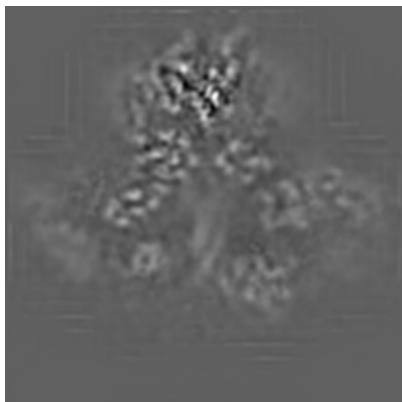


Z Index: 100

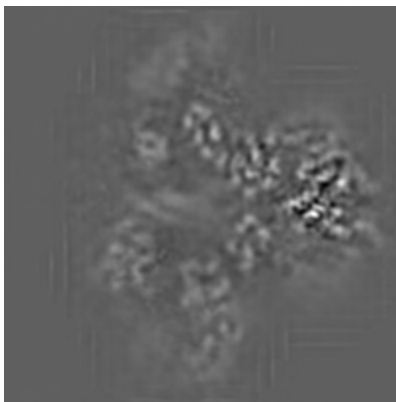
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [\(i\)](#)

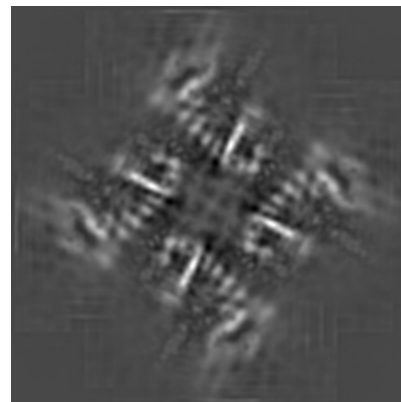
6.3.1 Primary map



X Index: 94



Y Index: 94

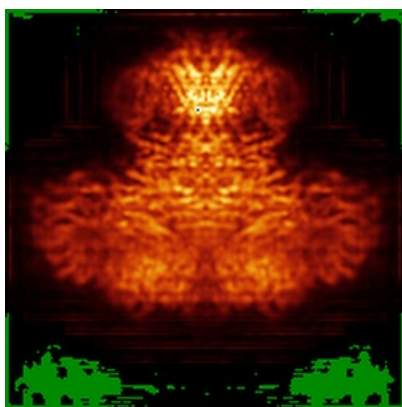


Z Index: 109

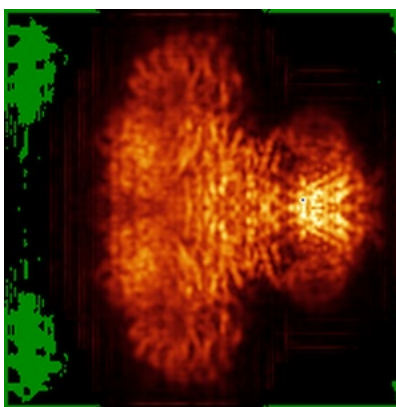
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [\(i\)](#)

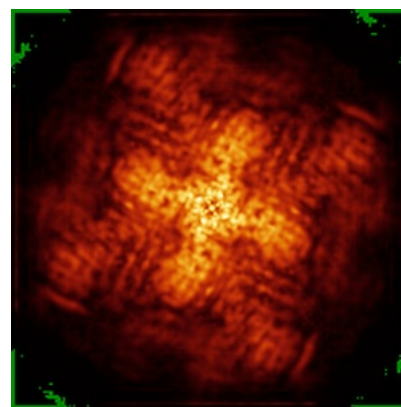
6.4.1 Primary map



X



Y

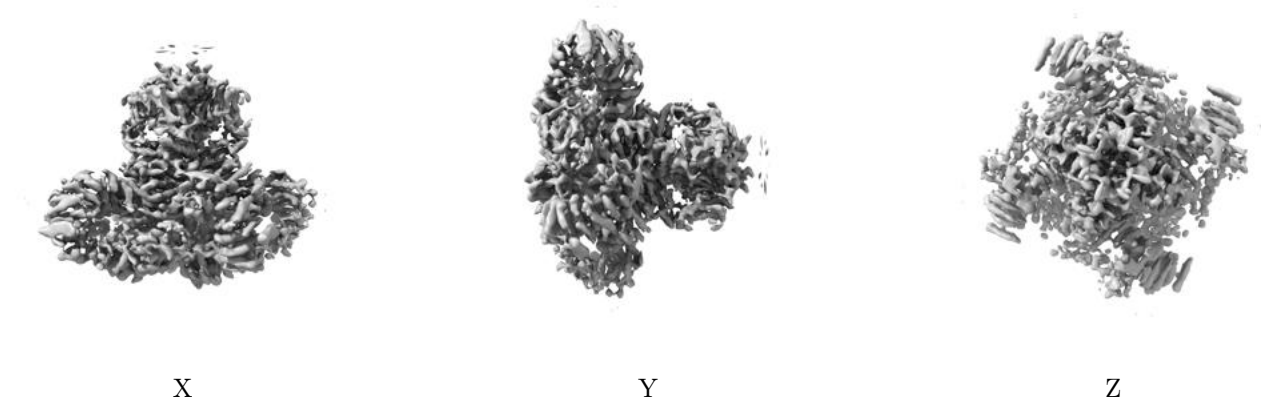


Z

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



The images above show the 3D surface view of the map at the recommended contour level 1.75. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

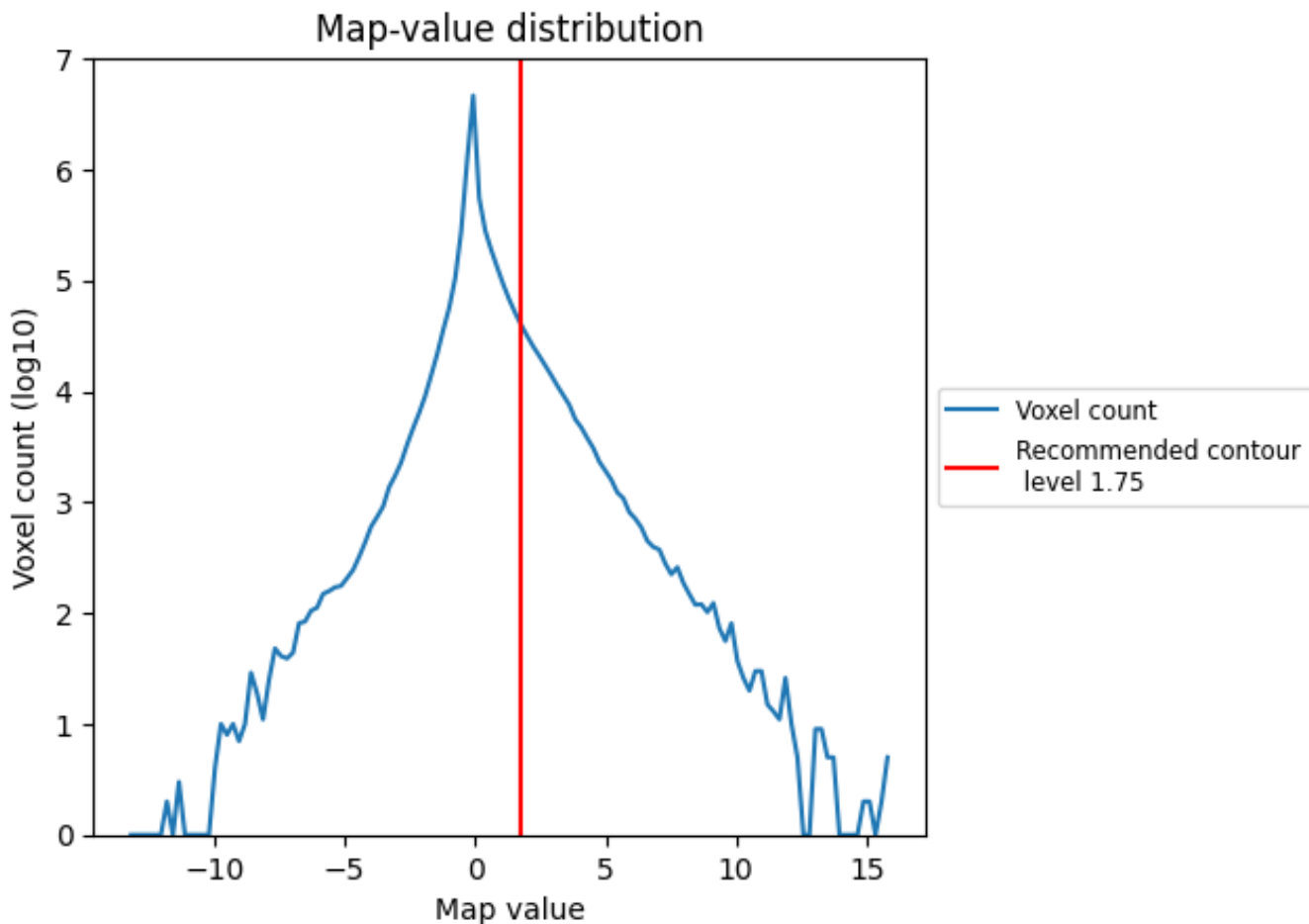
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

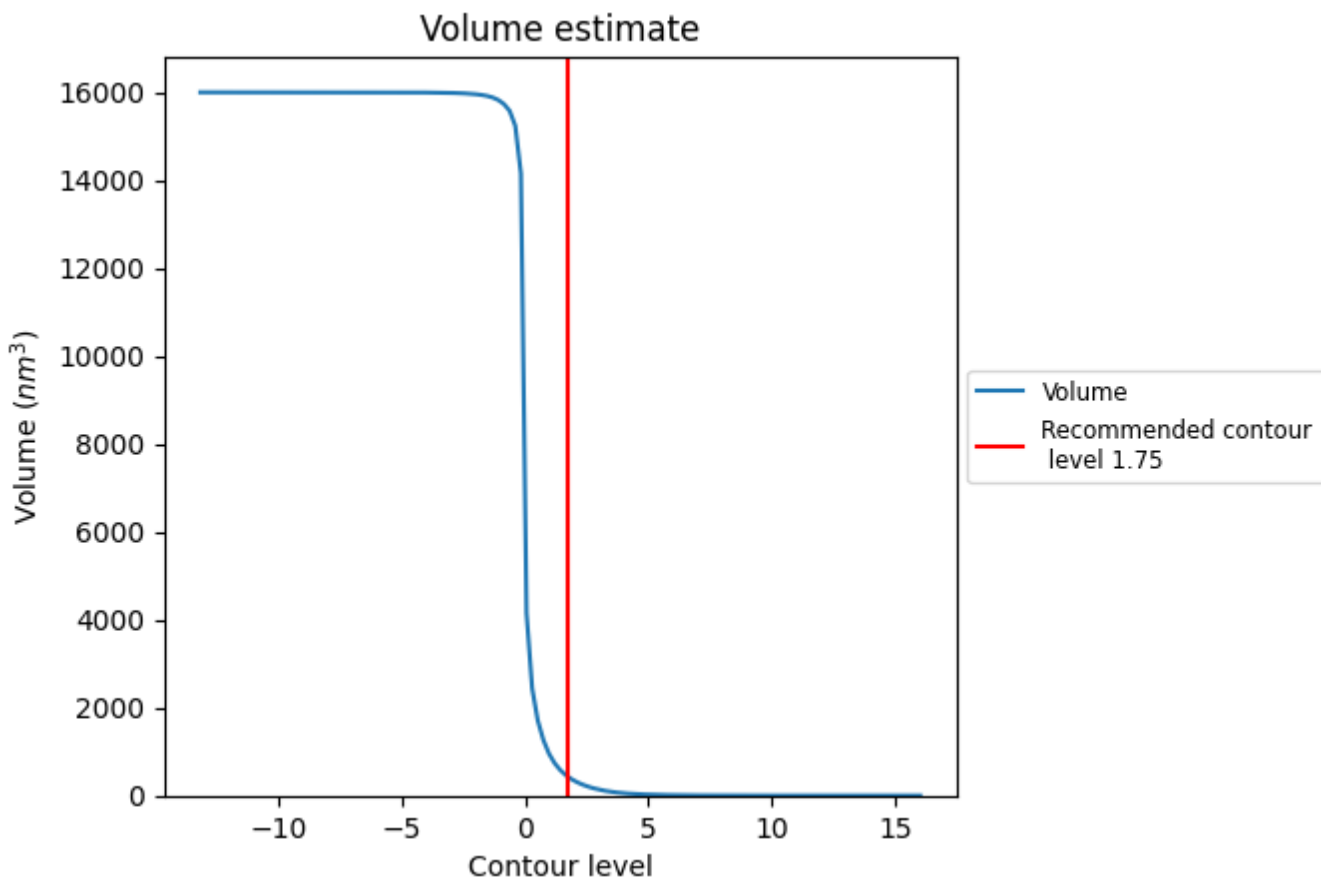
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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.

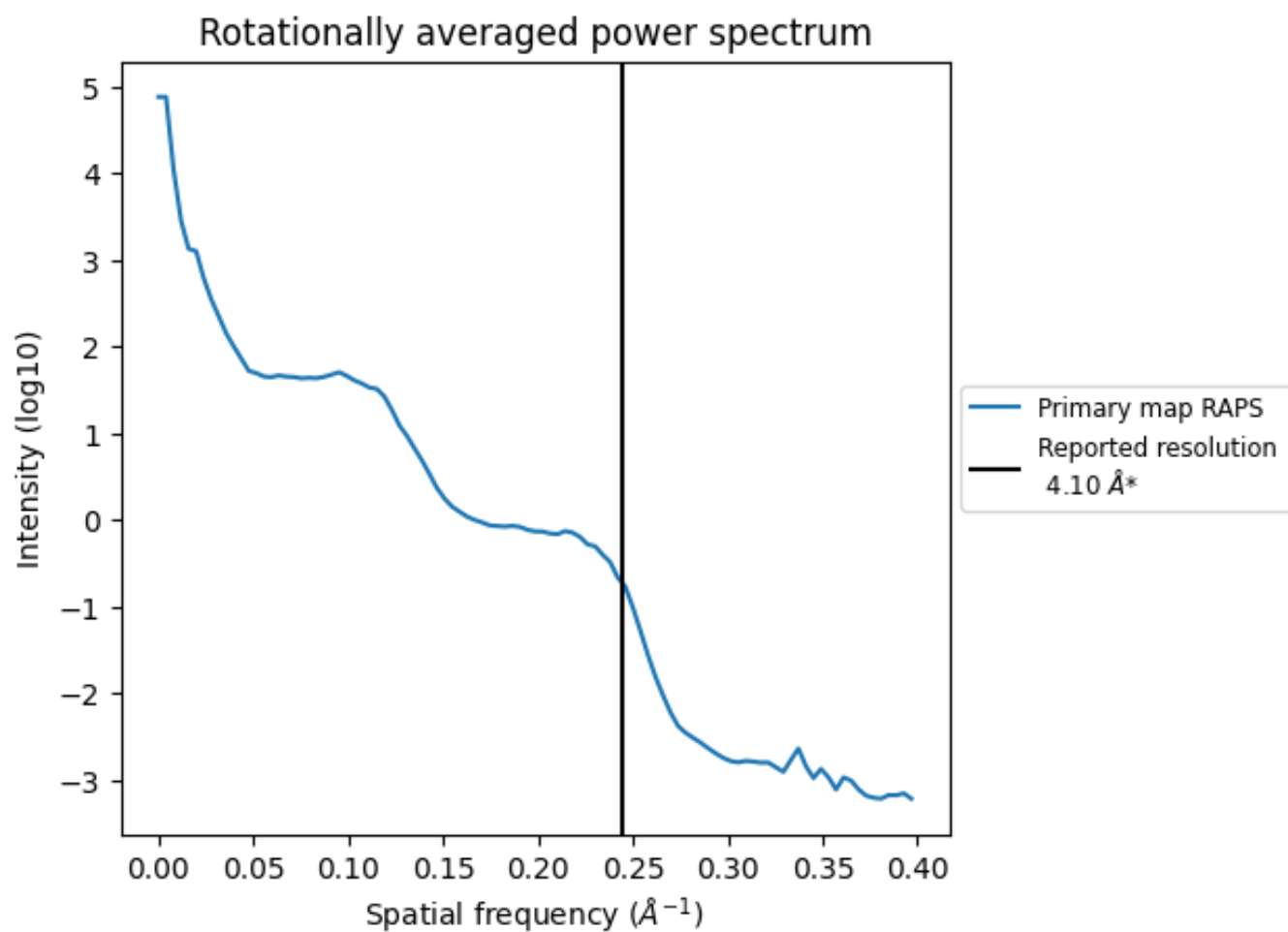
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 423 nm³; this corresponds to an approximate mass of 382 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 0.244 Å⁻¹

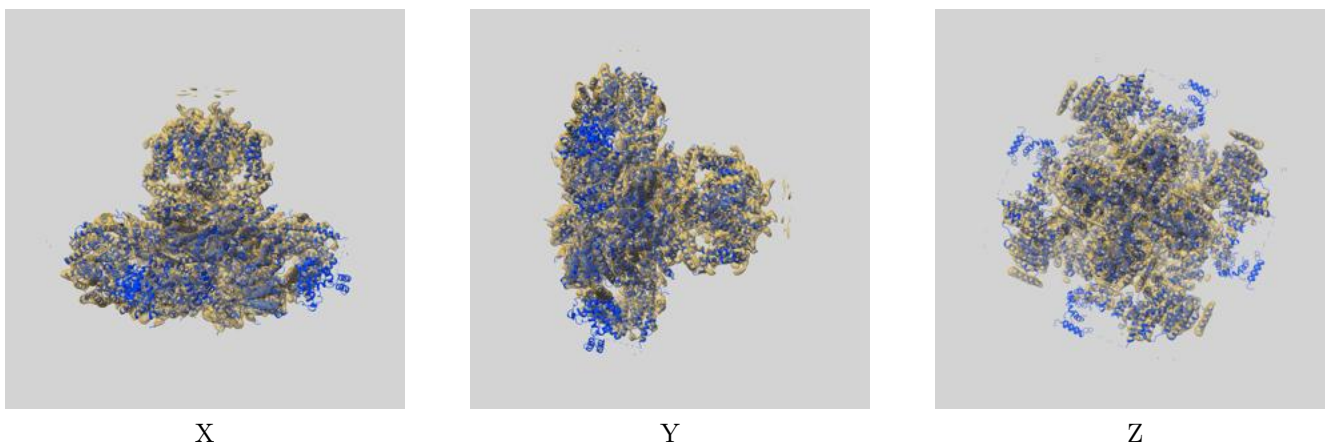
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

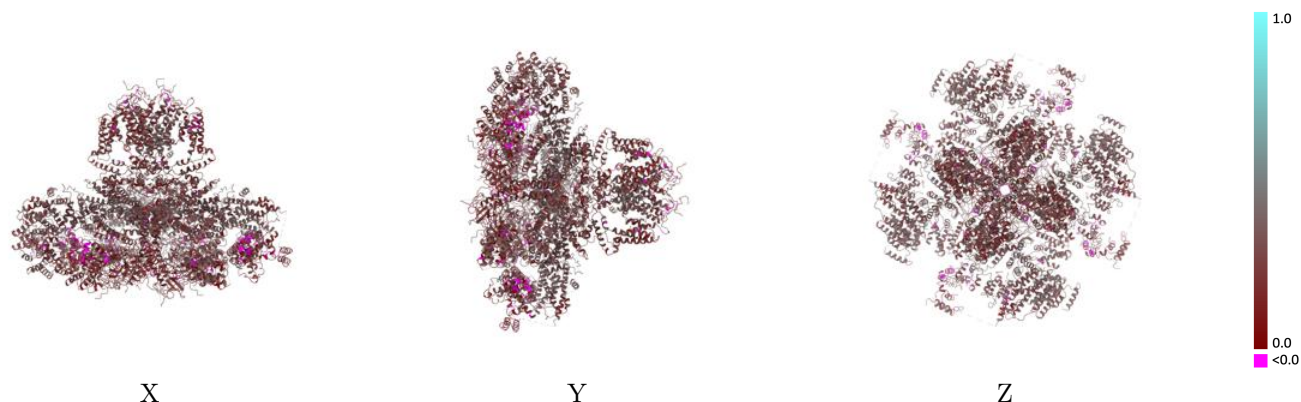
This section contains information regarding the fit between EMDB map EMD-9243 and PDB model 6MU1. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



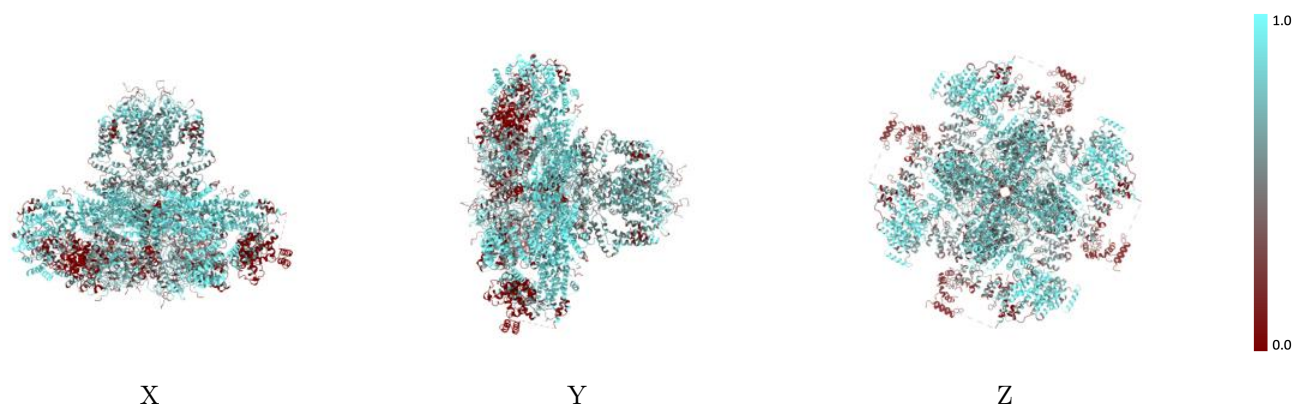
The images above show the 3D surface view of the map at the recommended contour level 1.75 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



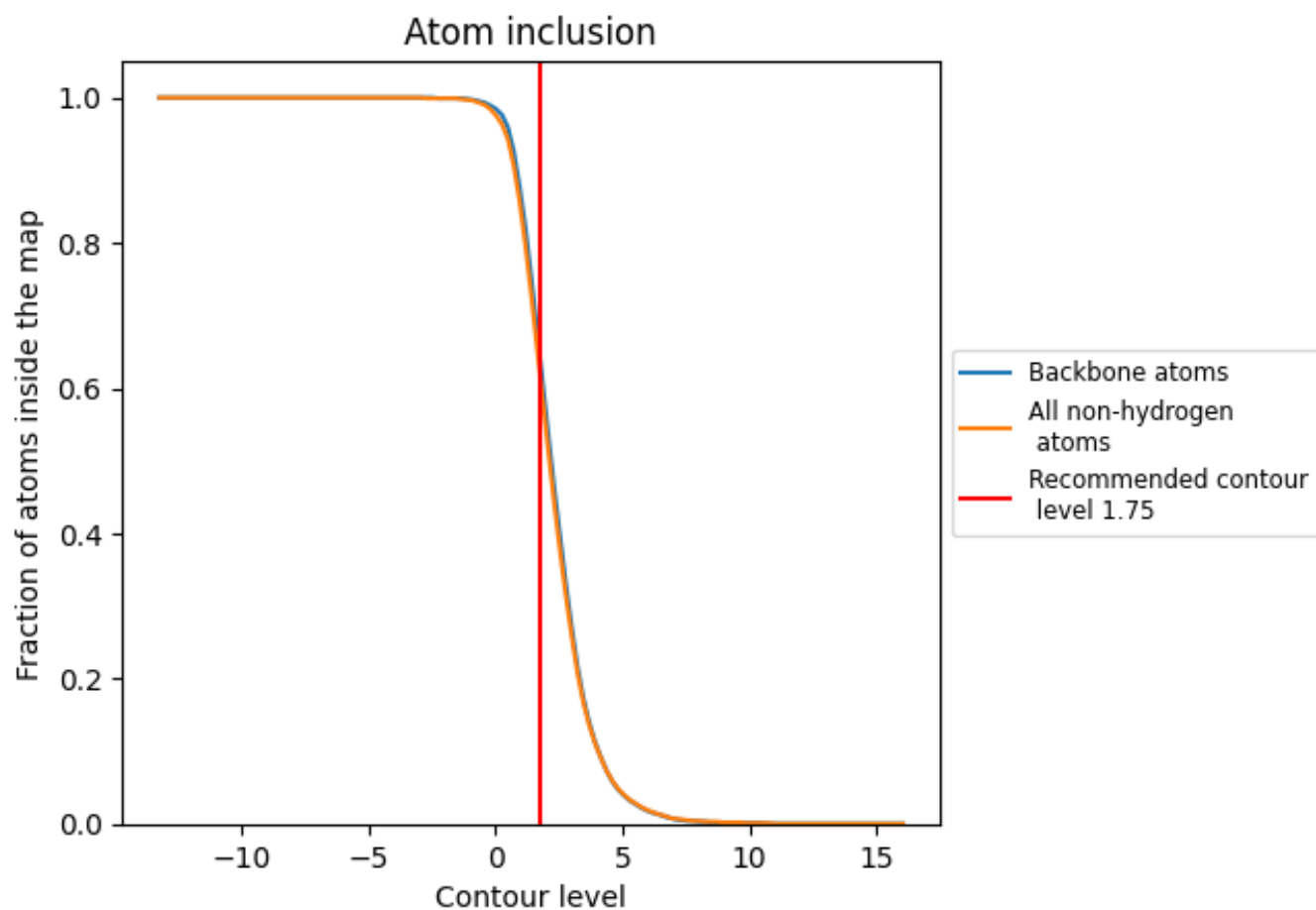
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 [i](#)



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 (1.75).






9.4 Atom inclusion [i](#)



At the recommended contour level, 65% of all backbone atoms, 62% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (1.75) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6230	 0.2630
A	 0.6270	 0.2640
B	 0.6250	 0.2610
C	 0.6240	 0.2630
D	 0.6260	 0.2640

