



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 03:45 AM UTC

PDB ID : 3JAV / pdb_00003jav
EMDB ID : EMD-6369
Title : Structure of full-length IP3R1 channel in the apo-state determined by single particle cryo-EM
Authors : Fan, G.; Baker, M.L.; Wang, Z.; Baker, M.R.; Sinyagovskiy, P.A.; Chiu, W.; Ludtke, S.J.; Serysheva, I.I.
Deposited on : 2015-06-30
Resolution : 4.70 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:

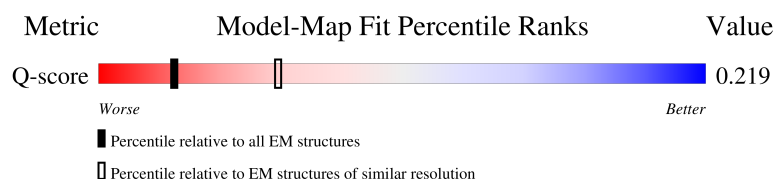
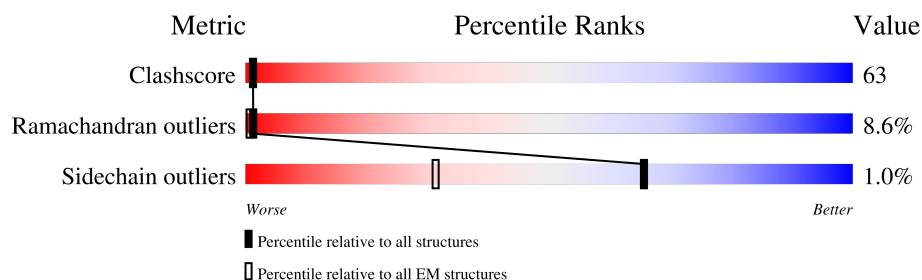
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 4.70 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	1989 (4.20 - 5.20)

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	2750	12% 58% 22% • 15%
1	B	2750	12% 57% 23% • 15%
1	C	2750	12% 58% 23% • 15%
1	D	2750	12% 57% 23% • 15%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 33472 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

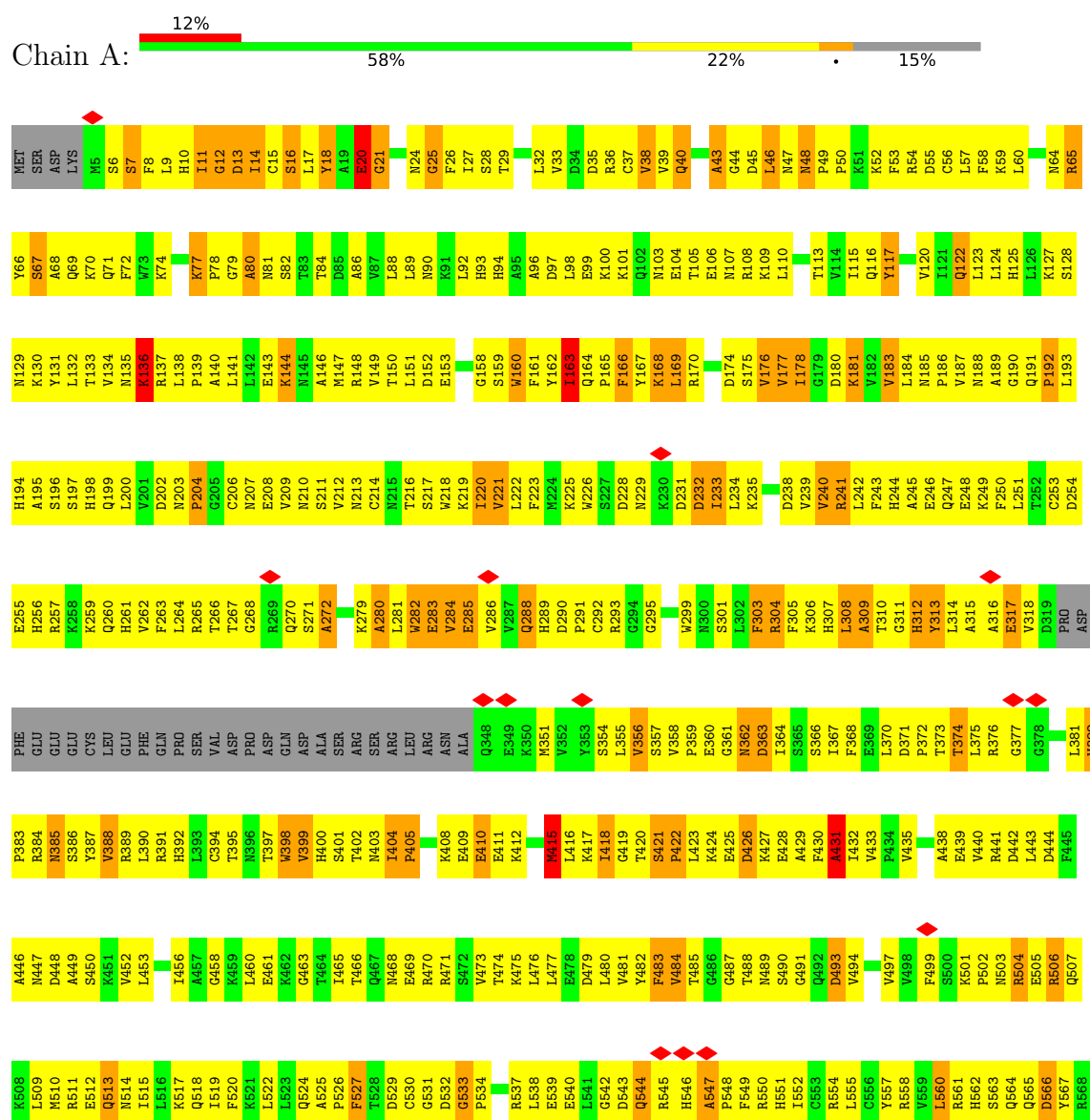
- Molecule 1 is a protein called Inositol 1,4,5-trisphosphate receptor type 1.

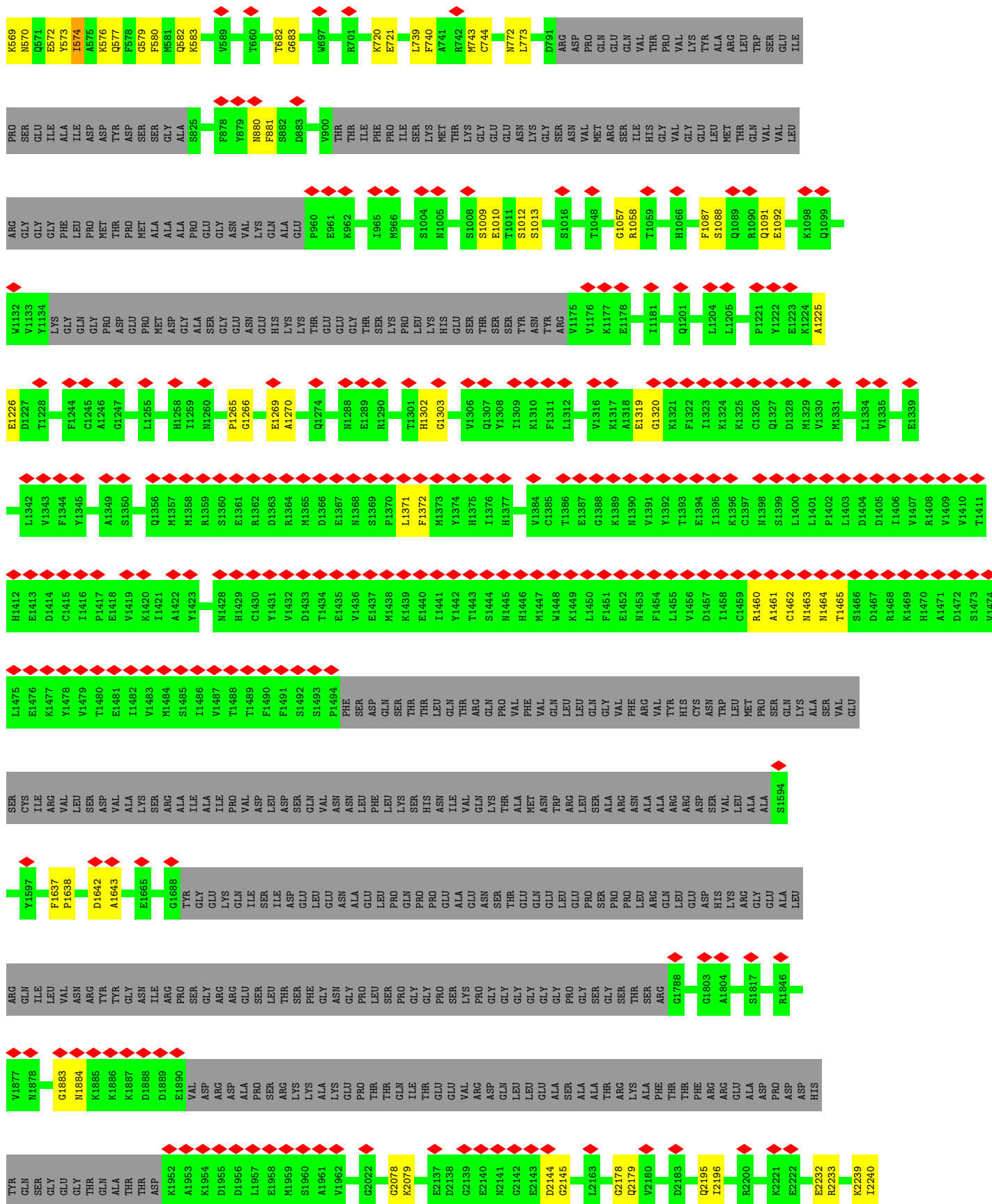
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	2327	Total	C	N	O	S	0	1459
			8368	5879	1191	1265	33		
1	B	2327	Total	C	N	O	S	0	1459
			8368	5879	1191	1265	33		
1	C	2327	Total	C	N	O	S	0	1459
			8368	5879	1191	1265	33		
1	D	2327	Total	C	N	O	S	0	1459
			8368	5879	1191	1265	33		

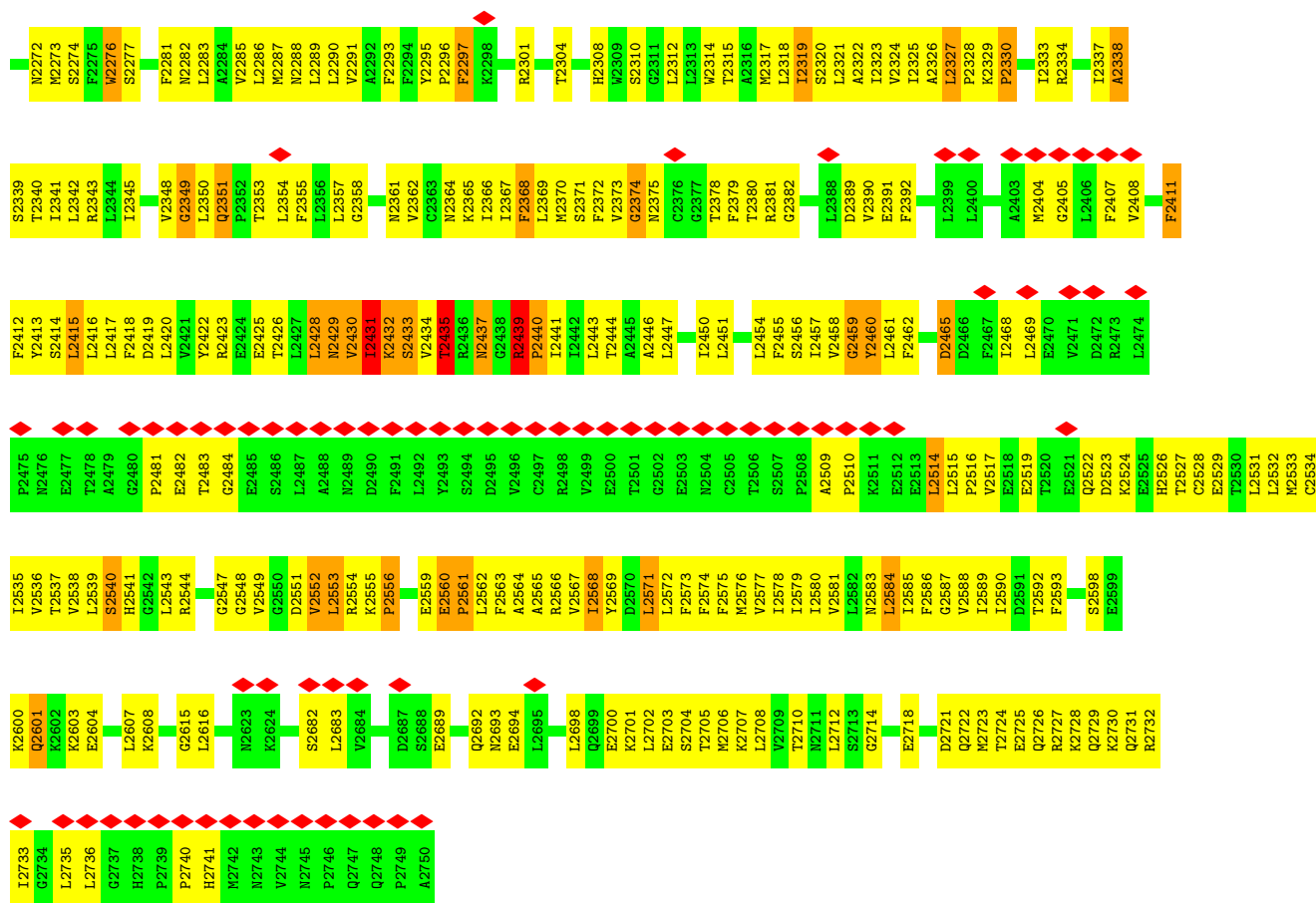
3 Residue-property plots

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.

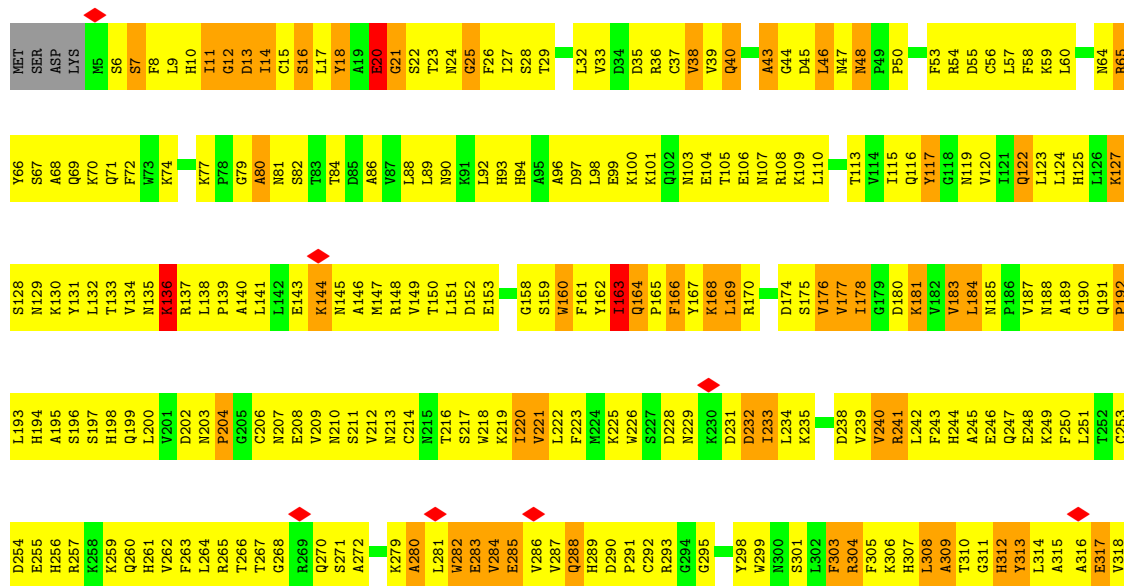
- Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1



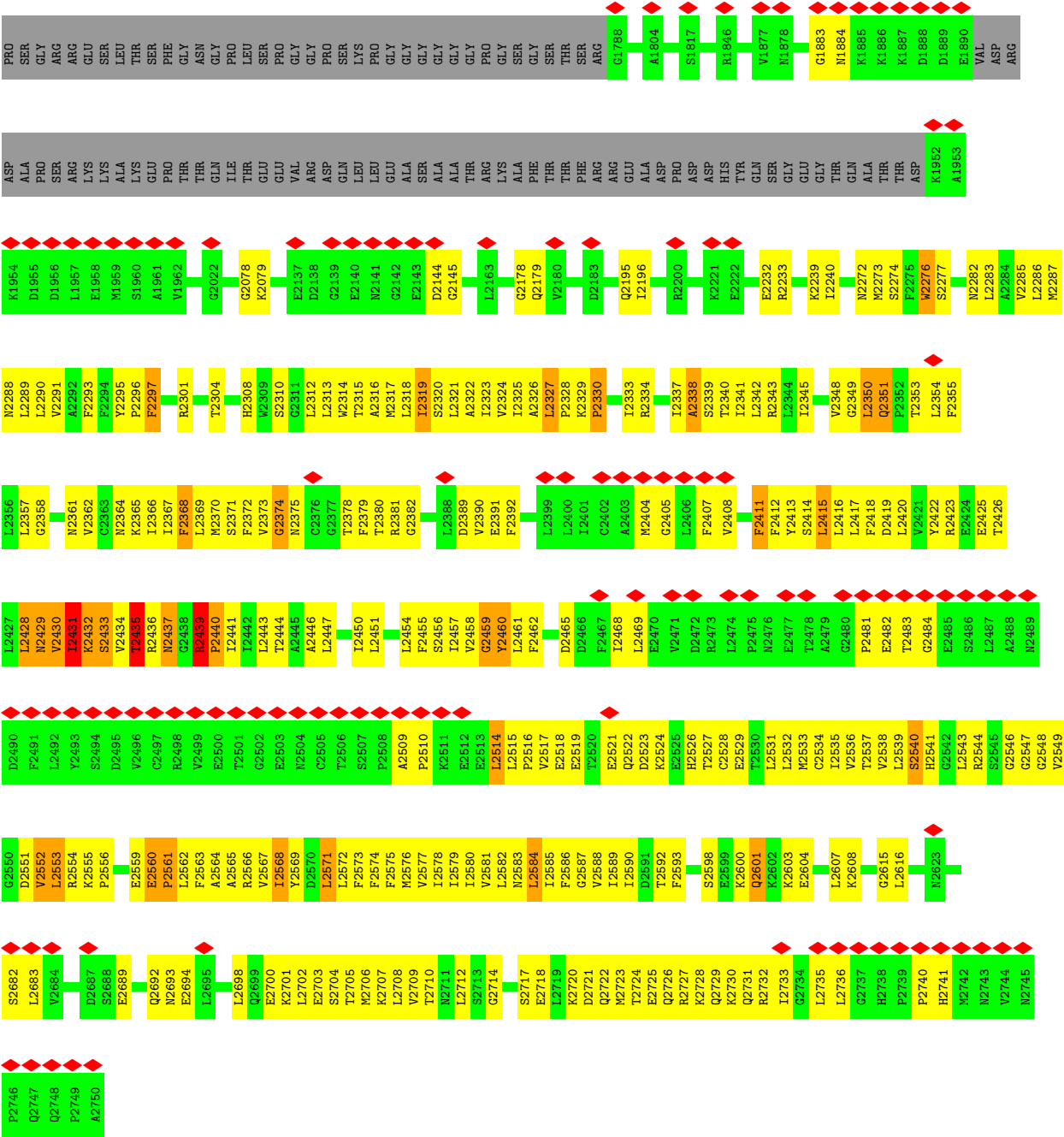




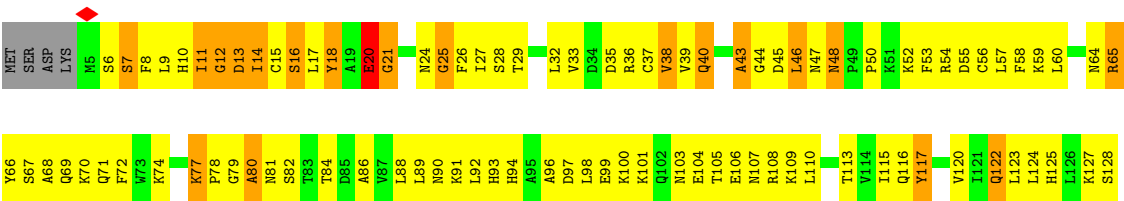
• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1



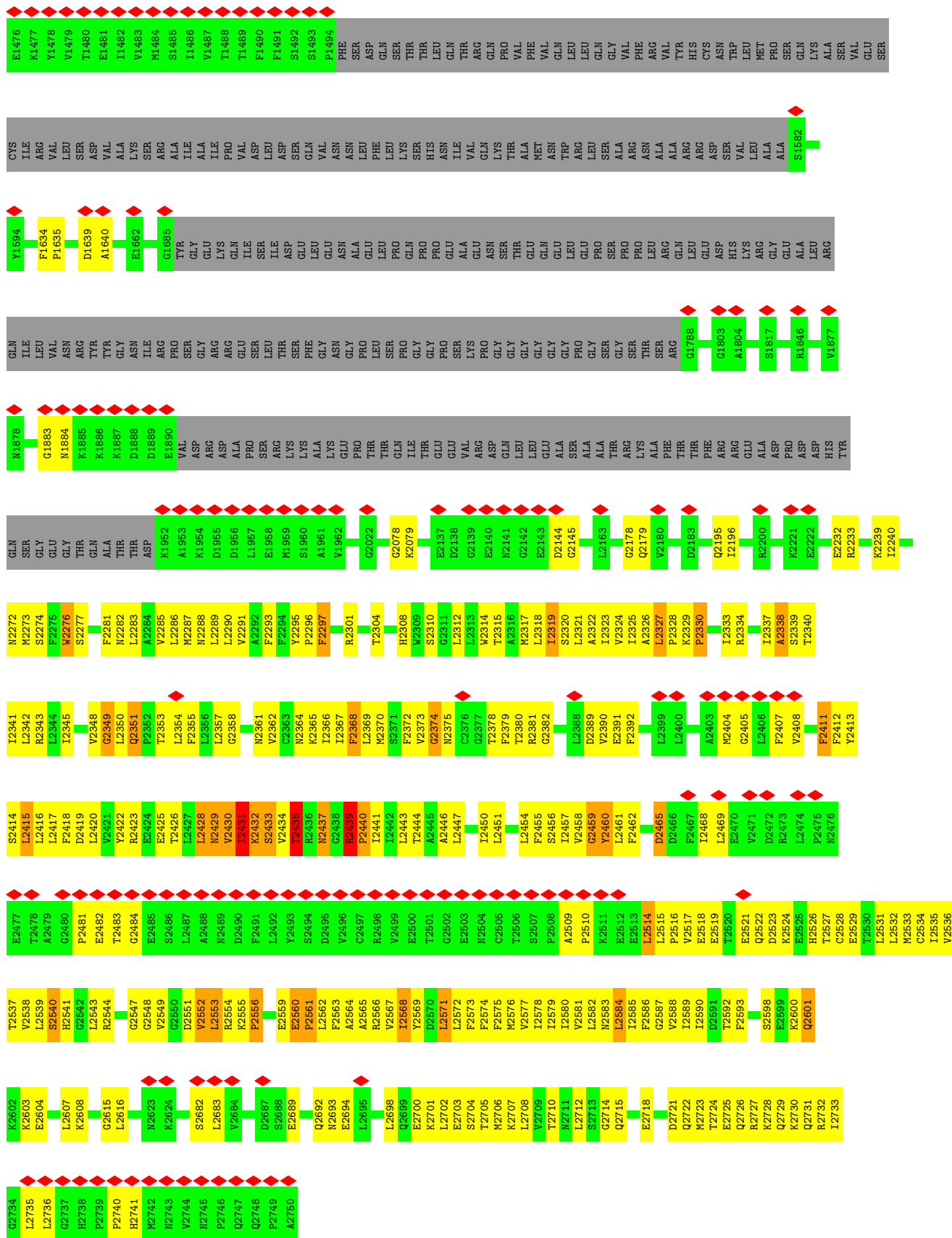




● Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1







- 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	96106	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	CTFFIND3	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	22	Depositor
Minimum defocus (nm)	600	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	30886	Depositor
Image detector	GATAN K2 (4k x 4k)	Depositor
Maximum map value	16.272	Depositor
Minimum map value	-6.215	Depositor
Average map value	0.030	Depositor
Map value standard deviation	0.385	Depositor
Recommended contour level	0.7	Depositor
Map size ($\text{\AA}$)	414.72, 414.72, 414.72	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.62, 1.62, 1.62	Depositor

5 Model quality

5.1 Standard geometry

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	2.29	27/7045 (0.4%)	1.25	77/9516 (0.8%)
1	B	2.29	27/7045 (0.4%)	1.25	79/9516 (0.8%)
1	C	2.29	27/7045 (0.4%)	1.25	79/9516 (0.8%)
1	D	2.32	34/7045 (0.5%)	1.31	85/9516 (0.9%)
All	All	2.30	115/28180 (0.4%)	1.26	320/38064 (0.8%)

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	8
1	B	0	8
1	C	0	8
1	D	0	8
All	All	0	32

All (115) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	176	VAL	CA-CB	139.10	3.18	1.54
1	B	176	VAL	CA-CB	139.03	3.18	1.54
1	C	176	VAL	CA-CB	138.98	3.18	1.54
1	A	176	VAL	CA-CB	138.94	3.18	1.54
1	B	285	GLU	CA-C	68.45	2.44	1.52
1	D	285	GLU	CA-C	68.44	2.44	1.52
1	A	285	GLU	CA-C	68.42	2.44	1.52
1	C	285	GLU	CA-C	68.42	2.44	1.52
1	B	20	GLU	CG-CD	49.29	2.75	1.52
1	D	20	GLU	CG-CD	49.29	2.75	1.52
1	C	20	GLU	CG-CD	49.28	2.75	1.52
1	A	20	GLU	CG-CD	49.24	2.75	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	303	PHE	CD2-CE2	27.91	2.22	1.38
1	C	303	PHE	CD2-CE2	27.91	2.22	1.38
1	D	303	PHE	CD2-CE2	27.84	2.22	1.38
1	B	303	PHE	CD2-CE2	27.84	2.22	1.38
1	D	303	PHE	CD1-CE1	27.48	2.21	1.38
1	A	303	PHE	CD1-CE1	27.46	2.21	1.38
1	B	303	PHE	CD1-CE1	27.44	2.21	1.38
1	C	303	PHE	CD1-CE1	27.42	2.21	1.38
1	A	18	TYR	CD2-CE2	25.69	2.15	1.38
1	C	18	TYR	CD2-CE2	25.69	2.15	1.38
1	D	18	TYR	CD2-CE2	25.62	2.15	1.38
1	B	18	TYR	CD2-CE2	25.62	2.15	1.38
1	D	303	PHE	CE2-CZ	24.68	2.12	1.38
1	C	303	PHE	CE2-CZ	24.68	2.12	1.38
1	B	303	PHE	CE2-CZ	24.66	2.12	1.38
1	A	303	PHE	CE2-CZ	24.66	2.12	1.38
1	B	303	PHE	CE1-CZ	24.15	2.11	1.38
1	D	303	PHE	CE1-CZ	24.15	2.11	1.38
1	C	303	PHE	CE1-CZ	24.13	2.11	1.38
1	A	303	PHE	CE1-CZ	24.12	2.10	1.38
1	C	18	TYR	CD1-CE1	23.63	2.09	1.38
1	A	18	TYR	CD1-CE1	23.62	2.09	1.38
1	B	18	TYR	CD1-CE1	23.60	2.09	1.38
1	D	18	TYR	CD1-CE1	23.59	2.09	1.38
1	D	117	TYR	CD2-CE2	22.06	2.04	1.38
1	C	117	TYR	CD2-CE2	22.06	2.04	1.38
1	B	117	TYR	CD2-CE2	22.04	2.04	1.38
1	A	117	TYR	CD2-CE2	22.04	2.04	1.38
1	A	117	TYR	CD1-CE1	20.97	2.01	1.38
1	C	117	TYR	CD1-CE1	20.97	2.01	1.38
1	B	117	TYR	CD1-CE1	20.92	2.01	1.38
1	D	117	TYR	CD1-CE1	20.92	2.01	1.38
1	D	2428	LEU	CA-C	18.67	1.75	1.52
1	D	303	PHE	CG-CD2	17.97	1.76	1.38
1	B	303	PHE	CG-CD2	17.93	1.76	1.38
1	A	303	PHE	CG-CD2	17.93	1.76	1.38
1	C	303	PHE	CG-CD2	17.93	1.76	1.38
1	A	18	TYR	CE2-CZ	17.51	1.80	1.38
1	B	18	TYR	CE2-CZ	17.50	1.80	1.38
1	D	18	TYR	CE2-CZ	17.50	1.80	1.38
1	C	18	TYR	CE2-CZ	17.50	1.80	1.38
1	C	117	TYR	CE1-CZ	17.45	1.80	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	117	TYR	CE1-CZ	17.44	1.80	1.38
1	D	18	TYR	CE1-CZ	17.42	1.80	1.38
1	D	117	TYR	CE1-CZ	17.41	1.80	1.38
1	B	18	TYR	CE1-CZ	17.40	1.80	1.38
1	B	117	TYR	CE1-CZ	17.40	1.80	1.38
1	A	18	TYR	CE1-CZ	17.39	1.79	1.38
1	C	18	TYR	CE1-CZ	17.38	1.79	1.38
1	A	303	PHE	CG-CD1	17.31	1.75	1.38
1	C	303	PHE	CG-CD1	17.31	1.75	1.38
1	B	303	PHE	CG-CD1	17.31	1.75	1.38
1	D	303	PHE	CG-CD1	17.27	1.75	1.38
1	B	117	TYR	CE2-CZ	16.99	1.79	1.38
1	D	117	TYR	CE2-CZ	16.99	1.79	1.38
1	C	117	TYR	CE2-CZ	16.96	1.78	1.38
1	A	117	TYR	CE2-CZ	16.95	1.78	1.38
1	A	117	TYR	CG-CD2	15.78	1.72	1.39
1	C	117	TYR	CG-CD2	15.75	1.72	1.39
1	D	117	TYR	CG-CD2	15.75	1.72	1.39
1	B	117	TYR	CG-CD2	15.71	1.72	1.39
1	D	18	TYR	CG-CD1	15.39	1.71	1.39
1	B	18	TYR	CG-CD1	15.36	1.71	1.39
1	C	18	TYR	CG-CD1	15.36	1.71	1.39
1	C	18	TYR	CG-CD2	15.34	1.71	1.39
1	A	18	TYR	CG-CD1	15.34	1.71	1.39
1	B	18	TYR	CG-CD2	15.32	1.71	1.39
1	D	18	TYR	CG-CD2	15.32	1.71	1.39
1	A	18	TYR	CG-CD2	15.32	1.71	1.39
1	A	117	TYR	CG-CD1	14.80	1.70	1.39
1	C	117	TYR	CG-CD1	14.80	1.70	1.39
1	B	117	TYR	CG-CD1	14.78	1.70	1.39
1	D	117	TYR	CG-CD1	14.78	1.70	1.39
1	D	2428	LEU	N-CA	12.66	1.62	1.45
1	D	2435	THR	C-O	8.53	1.33	1.24
1	D	2428	LEU	C-O	7.95	1.33	1.23
1	D	2439	ARG	CA-C	7.71	1.62	1.52
1	D	2431	ILE	C-O	7.08	1.31	1.24
1	D	2427	LEU	C-N	6.52	1.42	1.33
1	C	2435	THR	C-O	6.51	1.31	1.24
1	B	2435	THR	C-O	6.43	1.31	1.24
1	A	2435	THR	C-O	6.43	1.31	1.24
1	B	2439	ARG	CA-C	5.97	1.60	1.52
1	B	2433	SER	C-O	5.97	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	2439	ARG	N-CA	5.94	1.54	1.46
1	C	2439	ARG	CA-C	5.93	1.60	1.52
1	A	2439	ARG	CA-C	5.92	1.60	1.52
1	A	2433	SER	C-O	5.85	1.30	1.24
1	C	2433	SER	C-O	5.85	1.30	1.24
1	A	176	VAL	CB-CG2	5.53	1.70	1.52
1	C	176	VAL	CB-CG2	5.52	1.70	1.52
1	D	176	VAL	CB-CG2	5.52	1.70	1.52
1	B	176	VAL	CB-CG2	5.50	1.70	1.52
1	A	2429	ASN	CA-C	5.46	1.60	1.52
1	B	2429	ASN	CA-C	5.46	1.60	1.52
1	D	2434	VAL	CA-CB	-5.45	1.47	1.54
1	C	2429	ASN	CA-C	5.44	1.60	1.52
1	D	2431	ILE	N-CA	-5.39	1.40	1.46
1	C	176	VAL	CB-CG1	5.30	1.70	1.52
1	A	176	VAL	CB-CG1	5.27	1.70	1.52
1	B	176	VAL	CB-CG1	5.24	1.69	1.52
1	D	176	VAL	CB-CG1	5.24	1.69	1.52
1	D	2433	SER	C-O	5.23	1.30	1.24

All (320) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2429	ASN	N-CA-C	20.73	133.25	111.07
1	D	2428	LEU	N-CA-C	20.44	140.11	109.24
1	A	285	GLU	O-C-N	-14.78	102.94	122.59
1	C	285	GLU	O-C-N	-14.77	102.94	122.59
1	D	285	GLU	O-C-N	-14.76	102.96	122.59
1	B	285	GLU	O-C-N	-14.73	103.00	122.59
1	C	2429	ASN	N-CA-C	13.21	138.93	110.80
1	A	2429	ASN	N-CA-C	13.19	138.90	110.80
1	B	2429	ASN	N-CA-C	13.18	138.87	110.80
1	B	404	ILE	N-CA-C	10.37	119.39	107.77
1	C	404	ILE	N-CA-C	10.32	119.33	107.77
1	D	404	ILE	N-CA-C	10.30	119.31	107.77
1	A	404	ILE	N-CA-C	10.27	119.28	107.77
1	D	2428	LEU	CA-C-O	10.16	132.88	121.40
1	A	176	VAL	CA-CB-CG2	10.11	127.59	110.40
1	B	176	VAL	CA-CB-CG2	10.11	127.59	110.40
1	D	176	VAL	CA-CB-CG2	10.11	127.58	110.40
1	C	176	VAL	CA-CB-CG2	10.10	127.56	110.40
1	A	20	GLU	CB-CG-CD	10.04	129.67	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	20	GLU	CB-CG-CD	10.04	129.66	112.60
1	D	20	GLU	CB-CG-CD	10.02	129.64	112.60
1	C	20	GLU	CB-CG-CD	9.99	129.58	112.60
1	B	176	VAL	CB-CA-C	9.64	125.20	110.83
1	D	176	VAL	CB-CA-C	9.63	125.19	110.83
1	C	176	VAL	CB-CA-C	9.63	125.18	110.83
1	A	176	VAL	CB-CA-C	9.63	125.17	110.83
1	A	48	ASN	CA-C-N	9.52	126.61	119.66
1	A	48	ASN	C-N-CA	9.52	126.61	119.66
1	B	48	ASN	CA-C-N	9.50	126.50	119.66
1	B	48	ASN	C-N-CA	9.50	126.50	119.66
1	B	20	GLU	OE1-CD-OE2	-9.48	100.15	122.90
1	D	20	GLU	OE1-CD-OE2	-9.47	100.16	122.90
1	A	20	GLU	OE1-CD-OE2	-9.47	100.17	122.90
1	C	20	GLU	OE1-CD-OE2	-9.46	100.19	122.90
1	C	285	GLU	N-CA-CB	-9.35	94.69	110.49
1	D	48	ASN	CA-C-N	9.33	126.47	119.66
1	D	48	ASN	C-N-CA	9.33	126.47	119.66
1	A	285	GLU	N-CA-CB	-9.32	94.74	110.49
1	B	285	GLU	N-CA-CB	-9.30	94.77	110.49
1	D	285	GLU	N-CA-CB	-9.30	94.77	110.49
1	A	176	VAL	CA-CB-CG1	9.25	126.13	110.40
1	C	176	VAL	CA-CB-CG1	9.24	126.10	110.40
1	C	48	ASN	CA-C-N	9.22	126.39	119.66
1	C	48	ASN	C-N-CA	9.22	126.39	119.66
1	B	176	VAL	CA-CB-CG1	9.22	126.08	110.40
1	D	176	VAL	CA-CB-CG1	9.22	126.07	110.40
1	B	176	VAL	N-CA-C	-8.87	95.75	108.17
1	D	176	VAL	N-CA-C	-8.87	95.75	108.17
1	A	176	VAL	N-CA-C	-8.76	95.91	108.17
1	C	176	VAL	N-CA-C	-8.74	95.94	108.17
1	B	176	VAL	N-CA-CB	8.66	123.03	111.25
1	D	176	VAL	N-CA-CB	8.66	123.03	111.25
1	A	176	VAL	N-CA-CB	8.57	122.91	111.25
1	C	176	VAL	N-CA-CB	8.55	122.89	111.25
1	D	2427	LEU	CA-C-N	8.51	136.00	122.21
1	D	2427	LEU	C-N-CA	8.51	136.00	122.21
1	D	574	ILE	N-CA-C	-8.49	105.05	113.20
1	B	574	ILE	N-CA-C	-8.47	105.07	113.20
1	D	2429	ASN	CB-CA-C	-8.28	97.88	110.88
1	A	574	ILE	N-CA-C	-8.11	105.41	113.20
1	C	574	ILE	N-CA-C	-8.08	105.44	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2276	TRP	N-CA-C	-7.92	102.64	111.28
1	B	2276	TRP	N-CA-C	-7.91	102.66	111.28
1	A	2276	TRP	N-CA-C	-7.83	102.74	111.28
1	C	2276	TRP	N-CA-C	-7.83	102.74	111.28
1	B	430	PHE	N-CA-C	7.83	120.33	109.29
1	D	430	PHE	N-CA-C	7.82	120.32	109.29
1	B	285	GLU	CB-CA-C	7.57	125.47	110.42
1	D	285	GLU	CB-CA-C	7.56	125.47	110.42
1	C	285	GLU	CB-CA-C	7.55	125.45	110.42
1	A	285	GLU	CB-CA-C	7.54	125.43	110.42
1	C	285	GLU	N-CA-C	7.42	126.60	110.80
1	A	285	GLU	N-CA-C	7.40	126.56	110.80
1	B	285	GLU	N-CA-C	7.39	126.53	110.80
1	D	285	GLU	N-CA-C	7.38	126.51	110.80
1	C	2601	GLN	N-CA-C	-7.33	103.90	112.92
1	D	2601	GLN	N-CA-C	-7.33	103.91	112.92
1	B	2601	GLN	N-CA-C	-7.32	103.91	112.92
1	A	2601	GLN	N-CA-C	-7.30	103.94	112.92
1	D	2430	VAL	CB-CA-C	-7.19	101.01	112.16
1	D	2428	LEU	CA-C-N	7.17	129.76	120.44
1	D	2428	LEU	C-N-CA	7.17	129.76	120.44
1	A	415	MET	N-CA-C	7.15	121.18	108.24
1	C	415	MET	N-CA-C	7.15	121.18	108.24
1	D	415	MET	N-CA-C	7.12	121.12	108.24
1	D	2431	ILE	N-CA-CB	-7.10	102.88	110.62
1	B	415	MET	N-CA-C	7.07	121.04	108.24
1	B	12	GLY	N-CA-C	-7.02	106.34	114.69
1	D	288	GLN	N-CA-C	7.00	118.84	110.44
1	D	12	GLY	N-CA-C	-6.98	106.39	114.69
1	D	430	PHE	CB-CA-C	-6.90	105.77	114.40
1	A	12	GLY	N-CA-C	-6.89	106.50	114.69
1	C	12	GLY	N-CA-C	-6.88	106.51	114.69
1	B	430	PHE	CB-CA-C	-6.88	105.81	114.40
1	D	2429	ASN	N-CA-CB	-6.83	100.11	110.01
1	C	579	GLY	N-CA-C	-6.79	104.27	113.37
1	A	288	GLN	N-CA-C	6.79	118.59	110.44
1	C	288	GLN	N-CA-C	6.79	118.58	110.44
1	D	2411	PHE	CA-C-N	6.74	129.63	120.54
1	D	2411	PHE	C-N-CA	6.74	129.63	120.54
1	B	2411	PHE	CA-C-N	6.73	129.62	120.54
1	B	2411	PHE	C-N-CA	6.73	129.62	120.54
1	A	2430	VAL	CB-CA-C	-6.64	99.11	111.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2430	VAL	CB-CA-C	-6.63	99.13	111.79
1	B	2430	VAL	CB-CA-C	-6.62	99.14	111.79
1	A	2411	PHE	CA-C-N	6.58	129.42	120.54
1	A	2411	PHE	C-N-CA	6.58	129.42	120.54
1	C	2411	PHE	CA-C-N	6.54	129.37	120.54
1	C	2411	PHE	C-N-CA	6.54	129.37	120.54
1	D	579	GLY	N-CA-C	-6.51	104.44	112.77
1	A	579	GLY	N-CA-C	-6.50	104.45	112.77
1	B	579	GLY	N-CA-C	-6.43	104.53	112.77
1	C	362	ASN	CB-CA-C	-6.37	108.21	115.79
1	D	2431	ILE	N-CA-C	-6.34	104.15	110.30
1	A	362	ASN	CB-CA-C	-6.32	108.27	115.79
1	A	40	GLN	CA-C-N	6.30	126.21	119.28
1	A	40	GLN	C-N-CA	6.30	126.21	119.28
1	A	2431	ILE	CB-CA-C	-6.28	103.93	111.97
1	C	2431	ILE	CB-CA-C	-6.28	103.93	111.97
1	B	362	ASN	CB-CA-C	-6.28	108.32	115.79
1	D	362	ASN	CB-CA-C	-6.28	108.32	115.79
1	B	288	GLN	N-CA-C	6.27	118.91	110.88
1	B	316	ALA	N-CA-C	6.25	119.53	110.28
1	B	2431	ILE	CB-CA-C	-6.24	103.98	111.97
1	D	40	GLN	CA-C-N	6.24	126.14	119.28
1	D	40	GLN	C-N-CA	6.24	126.14	119.28
1	D	316	ALA	N-CA-C	6.23	119.51	110.28
1	D	25	GLY	N-CA-C	6.23	119.41	111.37
1	C	40	GLN	CA-C-N	6.23	126.13	119.28
1	C	40	GLN	C-N-CA	6.23	126.13	119.28
1	B	268	GLY	N-CA-C	-6.22	106.65	115.30
1	C	25	GLY	N-CA-C	6.18	119.34	111.37
1	B	25	GLY	N-CA-C	6.16	119.32	111.37
1	A	25	GLY	N-CA-C	6.16	119.31	111.37
1	C	316	ALA	N-CA-C	6.16	119.39	110.28
1	A	316	ALA	N-CA-C	6.15	119.38	110.28
1	C	544	GLN	N-CA-C	-6.08	101.42	110.23
1	C	195	ALA	N-CA-C	-6.07	105.78	113.43
1	B	304	ARG	N-CA-C	6.07	119.05	110.50
1	B	13	ASP	N-CA-C	-6.06	101.51	110.48
1	B	2374	GLY	N-CA-C	-6.06	105.46	112.73
1	D	304	ARG	N-CA-C	6.06	119.04	110.50
1	A	195	ALA	N-CA-C	-6.05	105.81	113.43
1	B	40	GLN	CA-C-N	6.05	125.93	119.28
1	B	40	GLN	C-N-CA	6.05	125.93	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	544	GLN	N-CA-C	-6.04	101.47	110.23
1	B	80	ALA	CA-C-N	6.03	132.55	121.70
1	B	80	ALA	C-N-CA	6.03	132.55	121.70
1	D	13	ASP	N-CA-C	-6.02	101.57	110.48
1	B	2552	VAL	CA-C-N	6.02	132.53	121.70
1	B	2552	VAL	C-N-CA	6.02	132.53	121.70
1	A	304	ARG	N-CA-C	6.01	118.98	110.50
1	D	80	ALA	CA-C-N	6.00	132.50	121.70
1	D	80	ALA	C-N-CA	6.00	132.50	121.70
1	C	304	ARG	N-CA-C	6.00	118.96	110.50
1	C	80	ALA	CA-C-N	6.00	132.50	121.70
1	C	80	ALA	C-N-CA	6.00	132.50	121.70
1	D	2374	GLY	N-CA-C	-6.00	105.54	112.73
1	B	544	GLN	N-CA-C	-5.99	101.54	110.23
1	B	2437	ASN	N-CA-CB	5.99	120.88	110.39
1	D	2552	VAL	CA-C-N	5.99	132.47	121.70
1	D	2552	VAL	C-N-CA	5.99	132.47	121.70
1	B	282	TRP	N-CA-C	5.97	117.31	108.60
1	D	544	GLN	N-CA-C	-5.97	101.58	110.23
1	B	195	ALA	N-CA-C	-5.96	105.92	113.43
1	A	80	ALA	CA-C-N	5.96	132.43	121.70
1	A	80	ALA	C-N-CA	5.96	132.43	121.70
1	A	2437	ASN	N-CA-CB	5.96	120.82	110.39
1	C	268	GLY	N-CA-C	-5.94	106.75	115.30
1	D	282	TRP	N-CA-C	5.94	117.27	108.60
1	A	46	LEU	N-CA-C	-5.94	103.99	111.11
1	C	282	TRP	N-CA-C	5.93	117.26	108.60
1	C	46	LEU	N-CA-C	-5.92	104.00	111.11
1	B	46	LEU	N-CA-C	-5.92	104.01	111.11
1	B	308	LEU	CA-C-N	5.92	132.36	121.70
1	B	308	LEU	C-N-CA	5.92	132.36	121.70
1	C	2437	ASN	N-CA-CB	5.92	120.75	110.39
1	A	13	ASP	N-CA-C	-5.92	101.72	110.48
1	A	282	TRP	N-CA-C	5.91	117.23	108.60
1	D	2437	ASN	N-CA-CB	5.91	120.74	110.39
1	C	13	ASP	N-CA-C	-5.91	101.73	110.48
1	D	46	LEU	N-CA-C	-5.91	104.02	111.11
1	D	308	LEU	CA-C-N	5.90	132.33	121.70
1	D	308	LEU	C-N-CA	5.90	132.33	121.70
1	C	410	GLU	CA-C-N	5.90	132.31	121.70
1	C	410	GLU	C-N-CA	5.90	132.31	121.70
1	A	2560	GLU	N-CA-C	5.89	118.16	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	410	GLU	CA-C-N	5.88	132.29	121.70
1	B	410	GLU	C-N-CA	5.88	132.29	121.70
1	C	2560	GLU	N-CA-C	5.88	118.15	109.50
1	C	308	LEU	CA-C-N	5.88	132.29	121.70
1	C	308	LEU	C-N-CA	5.88	132.29	121.70
1	D	410	GLU	CA-C-N	5.88	132.29	121.70
1	D	410	GLU	C-N-CA	5.88	132.29	121.70
1	A	308	LEU	CA-C-N	5.88	132.28	121.70
1	A	308	LEU	C-N-CA	5.88	132.28	121.70
1	A	410	GLU	CA-C-N	5.87	132.26	121.70
1	A	410	GLU	C-N-CA	5.87	132.26	121.70
1	D	195	ALA	N-CA-C	-5.87	106.04	113.43
1	A	2552	VAL	CA-C-N	5.86	132.25	121.70
1	A	2552	VAL	C-N-CA	5.86	132.25	121.70
1	C	2552	VAL	CA-C-N	5.86	132.25	121.70
1	C	2552	VAL	C-N-CA	5.86	132.25	121.70
1	C	241	ARG	N-CA-C	5.85	118.81	110.10
1	A	402	THR	CB-CA-C	-5.82	108.86	115.79
1	C	402	THR	CB-CA-C	-5.82	108.86	115.79
1	D	2560	GLU	N-CA-C	5.80	118.03	109.50
1	B	402	THR	CB-CA-C	-5.80	108.89	115.79
1	A	241	ARG	N-CA-C	5.80	118.74	110.10
1	A	2374	GLY	N-CA-C	-5.79	105.78	112.73
1	D	402	THR	CB-CA-C	-5.78	108.92	115.79
1	B	2560	GLU	N-CA-C	5.76	117.97	109.50
1	C	2374	GLY	N-CA-C	-5.72	105.86	112.73
1	C	2431	ILE	N-CA-CB	-5.70	103.88	110.55
1	D	241	ARG	N-CA-C	5.70	118.59	110.10
1	B	2431	ILE	N-CA-CB	-5.68	103.90	110.55
1	A	2431	ILE	N-CA-CB	-5.68	103.91	110.55
1	B	241	ARG	N-CA-C	5.65	118.42	110.23
1	D	20	GLU	CG-CD-OE1	5.63	131.35	118.40
1	A	20	GLU	CG-CD-OE1	5.63	131.35	118.40
1	B	20	GLU	CG-CD-OE1	5.63	131.34	118.40
1	C	20	GLU	CG-CD-OE1	5.62	131.34	118.40
1	A	2319	ILE	N-CA-C	-5.62	107.50	112.90
1	A	483	PHE	N-CA-C	-5.56	106.45	113.18
1	B	483	PHE	N-CA-C	-5.54	106.47	113.18
1	D	483	PHE	N-CA-C	-5.54	106.47	113.18
1	A	163	ILE	CA-C-N	-5.51	116.38	123.16
1	A	163	ILE	C-N-CA	-5.51	116.38	123.16
1	D	163	ILE	CA-C-N	-5.50	116.49	123.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	163	ILE	C-N-CA	-5.50	116.49	123.15
1	C	483	PHE	N-CA-C	-5.50	106.52	113.18
1	B	2319	ILE	N-CA-C	-5.46	107.42	112.83
1	D	2319	ILE	N-CA-C	-5.43	107.45	112.83
1	B	421	SER	CA-C-N	5.41	126.60	119.84
1	B	421	SER	C-N-CA	5.41	126.60	119.84
1	A	356	VAL	N-CA-C	5.38	117.38	109.63
1	D	421	SER	CA-C-N	5.38	126.56	119.84
1	D	421	SER	C-N-CA	5.38	126.56	119.84
1	C	2568	ILE	N-CA-C	-5.37	105.29	110.72
1	C	2319	ILE	N-CA-C	-5.37	107.52	112.83
1	D	164	GLN	N-CA-C	5.37	118.38	108.94
1	C	560	LEU	N-CA-C	-5.35	105.62	111.82
1	D	268	GLY	N-CA-C	-5.34	106.68	114.90
1	C	356	VAL	N-CA-C	5.33	117.31	109.63
1	A	560	LEU	N-CA-C	-5.33	105.64	111.82
1	A	2432	LYS	N-CA-C	-5.33	105.47	111.28
1	C	2432	LYS	N-CA-C	-5.31	105.49	111.28
1	A	2351	GLN	N-CA-C	5.30	119.96	112.75
1	C	421	SER	CA-C-N	5.30	126.46	119.84
1	C	421	SER	C-N-CA	5.30	126.46	119.84
1	D	356	VAL	N-CA-C	5.29	117.25	109.63
1	B	560	LEU	N-CA-C	-5.29	105.69	111.82
1	A	268	GLY	N-CA-C	-5.28	106.77	114.90
1	B	356	VAL	N-CA-C	5.28	117.24	109.63
1	B	163	ILE	CA-C-N	-5.28	116.33	123.46
1	B	163	ILE	C-N-CA	-5.28	116.33	123.46
1	B	2568	ILE	N-CA-C	-5.28	105.39	110.72
1	B	2432	LYS	N-CA-C	-5.27	105.54	111.28
1	C	163	ILE	CA-C-N	-5.26	116.36	123.46
1	C	163	ILE	C-N-CA	-5.26	116.36	123.46
1	A	2568	ILE	N-CA-C	-5.25	105.27	110.62
1	D	560	LEU	N-CA-C	-5.23	105.75	111.82
1	C	2351	GLN	N-CA-C	5.23	119.86	112.75
1	A	136	LYS	CA-C-N	5.22	131.10	121.70
1	A	136	LYS	C-N-CA	5.22	131.10	121.70
1	D	181	LYS	N-CA-C	5.22	116.74	108.96
1	B	136	LYS	CA-C-N	5.22	131.09	121.70
1	B	136	LYS	C-N-CA	5.22	131.09	121.70
1	D	43	ALA	CB-CA-C	-5.21	109.59	115.79
1	D	136	LYS	CA-C-N	5.20	131.06	121.70
1	D	136	LYS	C-N-CA	5.20	131.06	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	136	LYS	CA-C-N	5.18	131.03	121.70
1	C	136	LYS	C-N-CA	5.18	131.03	121.70
1	B	181	LYS	N-CA-C	5.18	116.68	108.96
1	A	2723	MET	N-CA-C	-5.18	105.81	111.82
1	A	181	LYS	N-CA-C	5.18	116.67	108.96
1	C	43	ALA	CB-CA-C	-5.18	109.63	115.79
1	C	181	LYS	N-CA-C	5.18	116.67	108.96
1	D	2351	GLN	N-CA-C	5.16	119.77	112.75
1	B	184	LEU	N-CA-C	5.16	117.37	110.35
1	B	280	ALA	CA-C-N	5.16	130.99	121.70
1	B	280	ALA	C-N-CA	5.16	130.99	121.70
1	B	43	ALA	CB-CA-C	-5.15	109.66	115.79
1	D	184	LEU	N-CA-C	5.15	117.35	110.35
1	B	164	GLN	N-CA-C	5.13	118.48	108.21
1	B	2368	PHE	N-CA-C	-5.13	105.60	111.14
1	D	2433	SER	N-CA-C	5.13	116.56	111.07
1	D	280	ALA	CA-C-N	5.13	130.93	121.70
1	D	280	ALA	C-N-CA	5.13	130.93	121.70
1	A	43	ALA	CB-CA-C	-5.13	109.69	115.79
1	A	531	GLY	N-CA-C	-5.12	108.61	115.32
1	B	2429	ASN	CB-CA-C	-5.12	100.23	110.42
1	A	280	ALA	CA-C-N	5.12	130.91	121.70
1	A	280	ALA	C-N-CA	5.12	130.91	121.70
1	C	280	ALA	CA-C-N	5.11	130.90	121.70
1	C	280	ALA	C-N-CA	5.11	130.90	121.70
1	D	2368	PHE	N-CA-C	-5.11	105.62	111.14
1	D	2568	ILE	N-CA-C	-5.11	105.41	110.62
1	C	440	VAL	N-CA-C	-5.10	104.71	111.09
1	B	2351	GLN	N-CA-C	5.10	119.69	112.75
1	C	531	GLY	N-CA-C	-5.09	108.66	115.32
1	A	421	SER	CA-C-N	5.08	126.19	119.84
1	A	421	SER	C-N-CA	5.08	126.19	119.84
1	B	2723	MET	N-CA-C	-5.08	105.93	111.82
1	C	2723	MET	N-CA-C	-5.08	105.93	111.82
1	A	2368	PHE	N-CA-C	-5.07	105.66	111.14
1	C	2429	ASN	CB-CA-C	-5.07	100.33	110.42
1	A	440	VAL	N-CA-C	-5.07	104.76	111.09
1	A	2429	ASN	CB-CA-C	-5.05	100.36	110.42
1	A	2439	ARG	CA-C-N	-5.04	113.54	119.84
1	A	2439	ARG	C-N-CA	-5.04	113.54	119.84
1	C	2368	PHE	N-CA-C	-5.04	105.70	111.14
1	D	2723	MET	N-CA-C	-5.03	105.98	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	127	LYS	N-CA-C	-5.02	107.10	113.18
1	B	2429	ASN	N-CA-CB	-5.02	102.00	110.49
1	C	184	LEU	N-CA-C	5.02	117.17	110.35
1	C	164	GLN	N-CA-C	5.01	118.24	108.21
1	D	127	LYS	N-CA-C	-5.01	107.11	113.18
1	C	2439	ARG	CA-C-N	-5.00	113.59	119.84
1	C	2439	ARG	C-N-CA	-5.00	113.59	119.84

There are no chirality outliers.

All (32) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	12	GLY	Peptide
1	A	136	LYS	Peptide
1	A	163	ILE	Peptide
1	A	169	LEU	Peptide
1	A	240	VAL	Peptide
1	A	374	THR	Peptide
1	A	415	MET	Peptide
1	A	431	ALA	Peptide
1	B	12	GLY	Peptide
1	B	136	LYS	Peptide
1	B	163	ILE	Peptide
1	B	169	LEU	Peptide
1	B	240	VAL	Peptide
1	B	374	THR	Peptide
1	B	415	MET	Peptide
1	B	431	ALA	Peptide
1	C	12	GLY	Peptide
1	C	136	LYS	Peptide
1	C	163	ILE	Peptide
1	C	169	LEU	Peptide
1	C	240	VAL	Peptide
1	C	374	THR	Peptide
1	C	415	MET	Peptide
1	C	431	ALA	Peptide
1	D	12	GLY	Peptide
1	D	136	LYS	Peptide
1	D	163	ILE	Peptide
1	D	169	LEU	Peptide
1	D	240	VAL	Peptide
1	D	374	THR	Peptide

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Mol	Chain	Res	Type	Group
1	D	415	MET	Peptide
1	D	431	ALA	Peptide

5.2 Too-close contacts

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	8368	0	6997	1017	0
1	B	8368	0	6997	1024	0
1	C	8368	0	6997	1020	0
1	D	8368	0	6997	1026	0
All	All	33472	0	27988	3892	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 63.

All (3892) 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:D:303:PHE:CG	1:D:303:PHE:CD1	1.75	1.72
1:B:303:PHE:CD1	1:B:303:PHE:CG	1.75	1.71
1:D:117:TYR:CE1	1:D:117:TYR:CZ	1.80	1.70
1:A:117:TYR:CE2	1:A:117:TYR:CZ	1.78	1.70
1:B:18:TYR:CZ	1:B:18:TYR:CE2	1.80	1.69
1:C:117:TYR:CZ	1:C:117:TYR:CE1	1.80	1.68
1:C:117:TYR:CZ	1:C:117:TYR:CE2	1.79	1.68
1:C:303:PHE:CD2	1:C:303:PHE:CG	1.76	1.68
1:B:117:TYR:CZ	1:B:117:TYR:CE2	1.79	1.67
1:C:303:PHE:CG	1:C:303:PHE:CD1	1.75	1.67
1:C:18:TYR:CE1	1:C:18:TYR:CZ	1.80	1.66
1:A:303:PHE:CG	1:A:303:PHE:CD1	1.75	1.66
1:D:18:TYR:CZ	1:D:18:TYR:CE2	1.80	1.65
1:D:117:TYR:CZ	1:D:117:TYR:CE2	1.79	1.65
1:D:303:PHE:CG	1:D:303:PHE:CD2	1.76	1.65
1:B:18:TYR:CZ	1:B:18:TYR:CE1	1.80	1.64
1:A:18:TYR:CZ	1:A:18:TYR:CE2	1.80	1.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:303:PHE:CG	1:A:303:PHE:CD2	1.76	1.64
1:B:117:TYR:CZ	1:B:117:TYR:CE1	1.80	1.62
1:A:18:TYR:CZ	1:A:18:TYR:CE1	1.80	1.62
1:C:18:TYR:CZ	1:C:18:TYR:CE2	1.80	1.61
1:B:303:PHE:CG	1:B:303:PHE:CD2	1.76	1.61
1:A:117:TYR:CZ	1:A:117:TYR:CE1	1.80	1.60
1:D:18:TYR:CZ	1:D:18:TYR:CE1	1.80	1.59
1:D:2428:LEU:CA	1:D:2428:LEU:C	1.75	1.57
1:A:117:TYR:CE1	1:A:117:TYR:CD1	2.01	1.48
1:B:117:TYR:CE1	1:B:117:TYR:CD1	2.01	1.48
1:A:2586:PHE:CD2	1:B:2586:PHE:CZ	1.99	1.48
1:D:117:TYR:CE1	1:D:117:TYR:CD1	2.01	1.48
1:C:2586:PHE:CD2	1:D:2586:PHE:CZ	2.00	1.47
1:C:117:TYR:CE1	1:C:117:TYR:CD1	2.01	1.47
1:D:117:TYR:CE2	1:D:117:TYR:CD2	2.04	1.45
1:A:117:TYR:CE2	1:A:117:TYR:CD2	2.04	1.43
1:B:117:TYR:CE2	1:B:117:TYR:CD2	2.04	1.43
1:A:2586:PHE:CZ	1:D:2586:PHE:CD2	2.07	1.43
1:C:117:TYR:CE2	1:C:117:TYR:CD2	2.04	1.43
1:B:18:TYR:CE1	1:B:18:TYR:CD1	2.09	1.41
1:C:18:TYR:CE1	1:C:18:TYR:CD1	2.09	1.41
1:A:117:TYR:CD1	1:A:176:VAL:HB	1.55	1.40
1:C:117:TYR:CD1	1:C:176:VAL:HB	1.55	1.40
1:D:117:TYR:CD1	1:D:176:VAL:HB	1.55	1.40
1:B:117:TYR:CD1	1:B:176:VAL:HB	1.55	1.39
1:D:303:PHE:CE1	1:D:303:PHE:CZ	2.11	1.39
1:B:2586:PHE:CD2	1:C:2586:PHE:CZ	2.07	1.39
1:B:117:TYR:CE2	1:B:176:VAL:HA	1.58	1.39
1:A:18:TYR:CE1	1:A:18:TYR:CD1	2.09	1.38
1:A:303:PHE:CE1	1:A:303:PHE:CZ	2.11	1.38
1:D:117:TYR:CE2	1:D:176:VAL:HA	1.58	1.38
1:C:117:TYR:CE2	1:C:176:VAL:HA	1.58	1.38
1:C:303:PHE:CE1	1:C:303:PHE:CZ	2.11	1.38
1:D:18:TYR:CE1	1:D:18:TYR:CD1	2.09	1.38
1:A:117:TYR:CE2	1:A:176:VAL:HA	1.58	1.38
1:B:303:PHE:CZ	1:B:303:PHE:CE1	2.11	1.37
1:C:303:PHE:CZ	1:C:303:PHE:CE2	2.12	1.37
1:A:303:PHE:CZ	1:A:303:PHE:CE2	2.12	1.37
1:C:2586:PHE:CE2	1:D:2586:PHE:CZ	2.13	1.36
1:B:303:PHE:CZ	1:B:303:PHE:CE2	2.12	1.35
1:D:303:PHE:CZ	1:D:303:PHE:CE2	2.12	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:TYR:CE2	1:A:18:TYR:CD2	2.15	1.35
1:D:18:TYR:CE2	1:D:18:TYR:CD2	2.15	1.35
1:A:2586:PHE:CE2	1:B:2586:PHE:CZ	2.13	1.34
1:B:18:TYR:CE2	1:B:18:TYR:CD2	2.15	1.33
1:C:18:TYR:CE2	1:C:18:TYR:CD2	2.15	1.32
1:C:303:PHE:CD1	1:C:303:PHE:CE1	2.20	1.29
1:A:2586:PHE:CZ	1:D:2586:PHE:CE2	2.20	1.29
1:B:2586:PHE:CE2	1:C:2586:PHE:CZ	2.20	1.28
1:A:303:PHE:CD1	1:A:303:PHE:CE1	2.21	1.28
1:C:2586:PHE:CD2	1:D:2586:PHE:HZ	1.41	1.28
1:D:303:PHE:CD1	1:D:303:PHE:CE1	2.21	1.27
1:D:303:PHE:CD2	1:D:303:PHE:CE2	2.22	1.27
1:B:303:PHE:CD1	1:B:303:PHE:CE1	2.21	1.27
1:B:303:PHE:CD2	1:B:303:PHE:CE2	2.22	1.27
1:A:2586:PHE:CD2	1:B:2586:PHE:HZ	1.41	1.26
1:C:303:PHE:CD2	1:C:303:PHE:CE2	2.22	1.25
1:A:303:PHE:CD2	1:A:303:PHE:CE2	2.22	1.25
1:D:285:GLU:HA	1:D:303:PHE:CD1	1.72	1.25
1:A:285:GLU:HA	1:A:303:PHE:CD1	1.72	1.24
1:C:285:GLU:HA	1:C:303:PHE:CD1	1.71	1.24
1:A:117:TYR:CE1	1:A:176:VAL:HB	1.73	1.23
1:D:285:GLU:HA	1:D:303:PHE:CE1	1.73	1.23
1:A:2428:LEU:HG	1:A:2429:ASN:OD1	1.35	1.23
1:C:117:TYR:CE1	1:C:176:VAL:HB	1.73	1.23
1:B:117:TYR:CE1	1:B:176:VAL:HB	1.73	1.23
1:B:285:GLU:HA	1:B:303:PHE:CD1	1.72	1.23
1:C:2428:LEU:HG	1:C:2429:ASN:OD1	1.35	1.22
1:D:117:TYR:CE1	1:D:176:VAL:HB	1.73	1.22
1:A:285:GLU:HA	1:A:303:PHE:CE1	1.74	1.22
1:B:285:GLU:HA	1:B:303:PHE:CE1	1.73	1.22
1:C:285:GLU:HA	1:C:303:PHE:CE1	1.74	1.21
1:D:18:TYR:CE2	1:D:20:GLU:CD	2.20	1.20
1:B:18:TYR:CE2	1:B:20:GLU:CD	2.20	1.19
1:A:18:TYR:CE2	1:A:20:GLU:CD	2.20	1.19
1:B:2586:PHE:CD2	1:C:2586:PHE:HZ	1.52	1.19
1:C:18:TYR:CE2	1:C:20:GLU:CD	2.20	1.19
1:A:2437:ASN:CB	1:A:2592:THR:HG21	1.74	1.18
1:B:2428:LEU:HG	1:B:2429:ASN:OD1	1.42	1.18
1:C:285:GLU:C	1:C:303:PHE:CD2	2.22	1.18
1:D:285:GLU:C	1:D:303:PHE:CD2	2.23	1.17
1:A:18:TYR:CD2	1:A:20:GLU:CD	2.23	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:18:TYR:CD2	1:D:20:GLU:CD	2.23	1.17
1:B:285:GLU:C	1:B:303:PHE:CD2	2.23	1.17
1:C:18:TYR:CD2	1:C:20:GLU:CD	2.23	1.17
1:C:2437:ASN:CB	1:C:2592:THR:HG21	1.73	1.17
1:B:2437:ASN:CB	1:B:2592:THR:HG21	1.75	1.17
1:B:18:TYR:CD2	1:B:20:GLU:CD	2.23	1.16
1:A:285:GLU:C	1:A:303:PHE:CD2	2.22	1.16
1:C:2586:PHE:CE2	1:D:2586:PHE:CE2	2.34	1.15
1:B:285:GLU:C	1:B:303:PHE:CE2	2.25	1.15
1:C:285:GLU:C	1:C:303:PHE:CE2	2.25	1.15
1:A:285:GLU:C	1:A:303:PHE:CZ	2.25	1.15
1:B:285:GLU:C	1:B:303:PHE:CZ	2.25	1.15
1:C:285:GLU:C	1:C:303:PHE:CZ	2.25	1.15
1:A:2586:PHE:CE2	1:B:2586:PHE:CE2	2.34	1.14
1:A:18:TYR:CZ	1:A:20:GLU:CD	2.25	1.14
1:C:18:TYR:CZ	1:C:20:GLU:CD	2.25	1.14
1:B:18:TYR:CZ	1:B:20:GLU:CD	2.25	1.14
1:D:285:GLU:C	1:D:303:PHE:CZ	2.25	1.14
1:A:285:GLU:C	1:A:303:PHE:CE2	2.25	1.14
1:C:2325:ILE:HG22	1:C:2329:LYS:NZ	1.64	1.13
1:D:285:GLU:C	1:D:303:PHE:CE2	2.25	1.13
1:D:18:TYR:CZ	1:D:20:GLU:CD	2.25	1.13
1:A:2586:PHE:HE2	1:B:2586:PHE:CE2	1.66	1.13
1:D:117:TYR:CE2	1:D:176:VAL:CA	2.33	1.12
1:A:2586:PHE:HZ	1:D:2586:PHE:CD2	1.52	1.12
1:C:2586:PHE:CE2	1:D:2586:PHE:HZ	1.57	1.12
1:D:18:TYR:CD1	1:D:20:GLU:CD	2.28	1.12
1:A:117:TYR:CE2	1:A:176:VAL:CA	2.33	1.11
1:C:18:TYR:CD1	1:C:20:GLU:CD	2.28	1.11
1:A:18:TYR:CD1	1:A:20:GLU:CD	2.28	1.11
1:A:285:GLU:C	1:A:303:PHE:CE1	2.29	1.11
1:B:18:TYR:CD1	1:B:20:GLU:CD	2.28	1.11
1:C:117:TYR:CE2	1:C:176:VAL:CA	2.33	1.11
1:B:117:TYR:CE2	1:B:176:VAL:CA	2.33	1.10
1:D:285:GLU:C	1:D:303:PHE:CE1	2.29	1.10
1:D:2425:GLU:OE2	1:D:2431:ILE:HG23	1.50	1.10
1:A:285:GLU:C	1:A:303:PHE:CD1	2.30	1.10
1:D:18:TYR:CE1	1:D:20:GLU:CG	2.35	1.10
1:D:2437:ASN:CB	1:D:2592:THR:HG21	1.81	1.10
1:A:18:TYR:CE1	1:A:20:GLU:CG	2.35	1.10
1:A:18:TYR:CE1	1:A:20:GLU:CD	2.30	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:285:GLU:C	1:B:303:PHE:CE1	2.29	1.10
1:C:285:GLU:C	1:C:303:PHE:CE1	2.29	1.10
1:A:2439:ARG:O	1:A:2441:ILE:N	1.84	1.10
1:A:2586:PHE:CE2	1:D:2586:PHE:CE2	2.40	1.10
1:A:2586:PHE:CE2	1:B:2586:PHE:HZ	1.57	1.10
1:D:285:GLU:C	1:D:303:PHE:CD1	2.30	1.10
1:B:285:GLU:C	1:B:303:PHE:CD1	2.29	1.09
1:C:18:TYR:CE1	1:C:20:GLU:CD	2.30	1.09
1:D:2325:ILE:HG22	1:D:2329:LYS:NZ	1.67	1.09
1:B:18:TYR:CE1	1:B:20:GLU:CD	2.30	1.09
1:B:18:TYR:CE1	1:B:20:GLU:CG	2.35	1.09
1:C:18:TYR:CE1	1:C:20:GLU:CG	2.35	1.09
1:C:285:GLU:C	1:C:303:PHE:CD1	2.30	1.09
1:C:2586:PHE:HE2	1:D:2586:PHE:CE2	1.66	1.09
1:B:2586:PHE:CE2	1:C:2586:PHE:CE2	2.40	1.09
1:D:18:TYR:CE1	1:D:20:GLU:CD	2.30	1.09
1:D:286:VAL:N	1:D:303:PHE:CE2	2.21	1.09
1:D:2439:ARG:O	1:D:2441:ILE:N	1.86	1.09
1:A:286:VAL:N	1:A:303:PHE:CE2	2.21	1.08
1:D:18:TYR:CD1	1:D:20:GLU:CG	2.36	1.08
1:A:18:TYR:CD1	1:A:20:GLU:CG	2.36	1.08
1:C:18:TYR:CG	1:C:20:GLU:CD	2.32	1.08
1:C:286:VAL:N	1:C:303:PHE:CE2	2.21	1.08
1:C:2439:ARG:O	1:C:2441:ILE:N	1.84	1.08
1:A:285:GLU:C	1:A:303:PHE:CG	2.32	1.08
1:C:18:TYR:CD1	1:C:20:GLU:CG	2.36	1.08
1:C:285:GLU:C	1:C:303:PHE:CG	2.32	1.08
1:D:117:TYR:CD2	1:D:176:VAL:CA	2.37	1.08
1:D:285:GLU:C	1:D:303:PHE:CG	2.32	1.08
1:D:285:GLU:CA	1:D:303:PHE:CE1	2.37	1.08
1:A:117:TYR:CZ	1:A:176:VAL:CA	2.37	1.07
1:A:117:TYR:CD2	1:A:176:VAL:CA	2.37	1.07
1:B:117:TYR:CD2	1:B:176:VAL:CA	2.37	1.07
1:C:117:TYR:CD2	1:C:176:VAL:CA	2.37	1.07
1:A:18:TYR:CG	1:A:20:GLU:CD	2.32	1.07
1:B:2439:ARG:O	1:B:2441:ILE:N	1.85	1.07
1:D:2437:ASN:HB3	1:D:2592:THR:HG21	1.11	1.07
1:A:285:GLU:CA	1:A:303:PHE:CE1	2.37	1.07
1:B:285:GLU:C	1:B:303:PHE:CG	2.32	1.07
1:D:18:TYR:CG	1:D:20:GLU:CD	2.32	1.07
1:D:117:TYR:CZ	1:D:176:VAL:CA	2.37	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:18:TYR:CG	1:B:20:GLU:CD	2.32	1.07
1:B:285:GLU:CA	1:B:303:PHE:CE1	2.37	1.07
1:B:286:VAL:N	1:B:303:PHE:CE2	2.21	1.07
1:B:2325:ILE:HG22	1:B:2329:LYS:NZ	1.67	1.07
1:C:285:GLU:CA	1:C:303:PHE:CE1	2.37	1.07
1:B:2586:PHE:CE2	1:C:2586:PHE:HZ	1.64	1.06
1:A:2437:ASN:HB3	1:A:2592:THR:CG2	1.85	1.06
1:B:18:TYR:CD1	1:B:20:GLU:CG	2.36	1.06
1:C:2437:ASN:HB3	1:C:2592:THR:CG2	1.84	1.06
1:B:117:TYR:CZ	1:B:176:VAL:CA	2.37	1.06
1:C:117:TYR:CZ	1:C:176:VAL:CA	2.37	1.06
1:B:2586:PHE:HE2	1:C:2586:PHE:CE2	1.74	1.06
1:B:2437:ASN:HB3	1:B:2592:THR:CG2	1.84	1.06
1:C:2437:ASN:CB	1:C:2592:THR:CG2	2.34	1.05
1:D:18:TYR:CZ	1:D:20:GLU:CG	2.40	1.05
1:A:2325:ILE:HG22	1:A:2329:LYS:NZ	1.70	1.05
1:D:2434:VAL:HG22	1:D:2593:PHE:CZ	1.92	1.04
1:B:18:TYR:CZ	1:B:20:GLU:CG	2.40	1.04
1:A:18:TYR:CZ	1:A:20:GLU:CG	2.40	1.04
1:C:18:TYR:CZ	1:C:20:GLU:CG	2.40	1.04
1:A:2431:ILE:H	1:A:2431:ILE:HD12	1.23	1.03
1:A:2437:ASN:CB	1:A:2592:THR:CG2	2.35	1.03
1:B:18:TYR:CE2	1:B:20:GLU:CG	2.42	1.03
1:B:2431:ILE:H	1:B:2431:ILE:HD12	1.23	1.03
1:C:117:TYR:CE1	1:C:176:VAL:CB	2.41	1.03
1:A:18:TYR:CE2	1:A:20:GLU:CG	2.42	1.03
1:C:117:TYR:CD1	1:C:176:VAL:CB	2.42	1.03
1:A:18:TYR:CD2	1:A:20:GLU:CG	2.42	1.03
1:A:2586:PHE:CE2	1:D:2586:PHE:HE2	1.74	1.03
1:B:2437:ASN:CB	1:B:2592:THR:CG2	2.35	1.03
1:D:18:TYR:CD2	1:D:20:GLU:CG	2.42	1.03
1:A:2586:PHE:HZ	1:D:2586:PHE:CE2	1.64	1.03
1:B:18:TYR:CD2	1:B:20:GLU:CG	2.42	1.03
1:B:117:TYR:CD1	1:B:176:VAL:CB	2.42	1.03
1:C:18:TYR:CD2	1:C:20:GLU:CG	2.42	1.03
1:D:18:TYR:CE2	1:D:20:GLU:CG	2.42	1.03
1:A:117:TYR:CE1	1:A:176:VAL:CB	2.41	1.02
1:A:117:TYR:CD1	1:A:176:VAL:CB	2.42	1.02
1:D:117:TYR:CD1	1:D:176:VAL:CB	2.42	1.02
1:C:18:TYR:CE2	1:C:20:GLU:CG	2.42	1.02
1:D:117:TYR:CE1	1:D:176:VAL:CB	2.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2425:GLU:OE2	1:D:2431:ILE:CG2	2.07	1.02
1:B:2437:ASN:HB3	1:B:2592:THR:HG21	1.02	1.02
1:B:117:TYR:CE1	1:B:176:VAL:CB	2.41	1.02
1:A:2437:ASN:HB3	1:A:2592:THR:HG21	1.02	1.01
1:C:2586:PHE:HD2	1:D:2586:PHE:CZ	1.78	1.01
1:A:285:GLU:CA	1:A:303:PHE:CZ	2.44	1.01
1:C:2437:ASN:HB3	1:C:2592:THR:HG21	1.02	1.01
1:C:373:THR:H	1:C:388:VAL:HG21	1.26	1.01
1:D:285:GLU:CA	1:D:303:PHE:CZ	2.44	1.01
1:A:373:THR:H	1:A:388:VAL:HG21	1.25	1.00
1:B:18:TYR:CG	1:B:20:GLU:CG	2.44	1.00
1:C:18:TYR:CG	1:C:20:GLU:CG	2.44	1.00
1:D:373:THR:H	1:D:388:VAL:HG21	1.26	1.00
1:B:285:GLU:CA	1:B:303:PHE:CZ	2.44	1.00
1:D:18:TYR:CG	1:D:20:GLU:CG	2.45	1.00
1:A:18:TYR:CG	1:A:20:GLU:CG	2.44	0.99
1:C:285:GLU:CA	1:C:303:PHE:CZ	2.44	0.99
1:D:285:GLU:CA	1:D:303:PHE:CE2	2.46	0.99
1:D:2431:ILE:HD12	1:D:2431:ILE:H	1.25	0.99
1:C:2431:ILE:H	1:C:2431:ILE:HD12	1.23	0.99
1:A:2586:PHE:HD2	1:B:2586:PHE:CZ	1.78	0.99
1:A:285:GLU:CA	1:A:303:PHE:CE2	2.46	0.99
1:A:117:TYR:CE2	1:A:176:VAL:CB	2.46	0.99
1:B:117:TYR:CD2	1:B:176:VAL:CB	2.46	0.99
1:D:18:TYR:CD1	1:D:20:GLU:HG3	1.98	0.98
1:A:117:TYR:CE1	1:A:176:VAL:CA	2.46	0.98
1:C:285:GLU:CA	1:C:303:PHE:CD1	2.46	0.98
1:C:285:GLU:CA	1:C:303:PHE:CE2	2.46	0.98
1:D:117:TYR:CD2	1:D:176:VAL:CB	2.46	0.98
1:B:117:TYR:CE1	1:B:176:VAL:CA	2.46	0.98
1:C:2434:VAL:HG22	1:C:2593:PHE:CZ	1.99	0.98
1:C:117:TYR:CZ	1:C:176:VAL:CB	2.47	0.98
1:A:117:TYR:CD2	1:A:176:VAL:CB	2.46	0.98
1:B:117:TYR:CE2	1:B:176:VAL:CB	2.46	0.98
1:A:117:TYR:CZ	1:A:176:VAL:CB	2.46	0.98
1:A:2434:VAL:HG22	1:A:2593:PHE:CZ	1.98	0.98
1:D:18:TYR:CE1	1:D:20:GLU:HG2	1.99	0.98
1:D:117:TYR:CE1	1:D:176:VAL:CA	2.46	0.98
1:C:117:TYR:CD2	1:C:176:VAL:CB	2.46	0.98
1:B:285:GLU:CA	1:B:303:PHE:CD1	2.46	0.98
1:D:285:GLU:CA	1:D:303:PHE:CD1	2.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:285:GLU:CA	1:B:303:PHE:CE2	2.46	0.97
1:C:18:TYR:CE1	1:C:20:GLU:HG2	1.99	0.97
1:C:117:TYR:CE1	1:C:176:VAL:CA	2.46	0.97
1:D:2437:ASN:HB3	1:D:2592:THR:CG2	1.93	0.97
1:C:117:TYR:CE2	1:C:176:VAL:CB	2.46	0.97
1:A:18:TYR:CE1	1:A:20:GLU:HG2	1.99	0.97
1:A:2607:LEU:C	1:A:2608:LYS:CA	2.37	0.97
1:C:18:TYR:CD1	1:C:20:GLU:HG3	1.98	0.97
1:C:2430:VAL:O	1:C:2433:SER:OG	1.82	0.97
1:D:117:TYR:CE2	1:D:176:VAL:CB	2.46	0.97
1:B:18:TYR:CD1	1:B:20:GLU:HG3	1.98	0.97
1:A:285:GLU:CA	1:A:303:PHE:CD1	2.46	0.97
1:B:18:TYR:CE1	1:B:20:GLU:HG2	1.99	0.97
1:B:117:TYR:CZ	1:B:176:VAL:CB	2.46	0.97
1:D:117:TYR:CZ	1:D:176:VAL:CB	2.47	0.97
1:C:2607:LEU:C	1:C:2608:LYS:CA	2.37	0.97
1:A:2430:VAL:O	1:A:2433:SER:OG	1.82	0.97
1:A:18:TYR:CD1	1:A:20:GLU:HG3	1.98	0.96
1:B:2607:LEU:C	1:B:2608:LYS:CA	2.37	0.96
1:D:2607:LEU:C	1:D:2608:LYS:CA	2.37	0.96
1:C:117:TYR:CD1	1:C:176:VAL:CA	2.49	0.96
1:C:582:GLN:C	1:C:583:LYS:CA	2.39	0.96
1:D:117:TYR:CD1	1:D:176:VAL:CA	2.49	0.96
1:B:117:TYR:CG	1:B:176:VAL:CA	2.49	0.96
1:A:582:GLN:C	1:A:583:LYS:CA	2.39	0.96
1:D:582:GLN:C	1:D:583:LYS:CA	2.39	0.96
1:B:373:THR:H	1:B:388:VAL:HG21	1.27	0.96
1:C:117:TYR:CG	1:C:176:VAL:CA	2.49	0.96
1:D:117:TYR:CG	1:D:176:VAL:CA	2.49	0.96
1:B:2430:VAL:O	1:B:2433:SER:OG	1.82	0.96
1:D:2437:ASN:CB	1:D:2592:THR:CG2	2.44	0.96
1:D:2430:VAL:O	1:D:2433:SER:OG	1.82	0.95
1:A:242:LEU:HD13	1:A:282:TRP:HA	1.48	0.95
1:D:242:LEU:HD13	1:D:282:TRP:HA	1.47	0.95
1:D:2428:LEU:C	1:D:2431:ILE:HD13	1.91	0.95
1:A:117:TYR:CD1	1:A:176:VAL:CA	2.49	0.95
1:A:117:TYR:CG	1:A:176:VAL:CA	2.49	0.95
1:B:2434:VAL:HG22	1:B:2593:PHE:CZ	2.01	0.95
1:B:582:GLN:C	1:B:583:LYS:CA	2.39	0.95
1:B:242:LEU:HD13	1:B:282:TRP:HA	1.47	0.95
1:C:117:TYR:CG	1:C:176:VAL:CB	2.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:117:TYR:CG	1:D:176:VAL:CB	2.50	0.94
1:B:117:TYR:CD1	1:B:176:VAL:CA	2.49	0.94
1:C:285:GLU:O	1:C:303:PHE:CD1	2.21	0.94
1:C:2586:PHE:HE2	1:D:2586:PHE:HE2	1.10	0.94
1:A:117:TYR:CG	1:A:176:VAL:CB	2.50	0.94
1:B:117:TYR:CG	1:B:176:VAL:CB	2.50	0.94
1:B:285:GLU:O	1:B:303:PHE:CD1	2.21	0.93
1:D:285:GLU:O	1:D:303:PHE:CD1	2.21	0.93
1:B:415:MET:HA	1:B:417:LYS:HE2	1.49	0.93
1:A:2586:PHE:HE2	1:B:2586:PHE:HE2	1.10	0.93
1:C:242:LEU:HD13	1:C:282:TRP:HA	1.48	0.93
1:A:285:GLU:O	1:A:303:PHE:CD1	2.21	0.92
1:D:415:MET:HA	1:D:417:LYS:HE2	1.49	0.92
1:D:2468:ILE:C	1:D:2469:LEU:CA	2.43	0.92
1:B:2468:ILE:C	1:B:2469:LEU:CA	2.43	0.91
1:A:2381:ARG:C	1:A:2382:GLY:CA	2.44	0.91
1:C:2468:ILE:C	1:C:2469:LEU:CA	2.43	0.91
1:C:2381:ARG:C	1:C:2382:GLY:CA	2.44	0.91
1:B:2381:ARG:C	1:B:2382:GLY:CA	2.44	0.91
1:B:2586:PHE:HD2	1:C:2586:PHE:CZ	1.87	0.91
1:C:285:GLU:C	1:C:285:GLU:CA	2.44	0.91
1:B:286:VAL:N	1:B:303:PHE:CD2	2.39	0.91
1:C:222:LEU:HB3	1:C:292:CYS:HB2	1.53	0.91
1:B:285:GLU:C	1:B:285:GLU:CA	2.44	0.91
1:D:285:GLU:C	1:D:285:GLU:CA	2.44	0.91
1:D:286:VAL:N	1:D:303:PHE:CD2	2.39	0.90
1:D:2381:ARG:C	1:D:2382:GLY:CA	2.44	0.90
1:A:2468:ILE:C	1:A:2469:LEU:CA	2.43	0.90
1:B:222:LEU:HB3	1:B:292:CYS:HB2	1.52	0.90
1:C:415:MET:HA	1:C:417:LYS:HE2	1.51	0.90
1:A:285:GLU:C	1:A:285:GLU:CA	2.44	0.90
1:D:2428:LEU:HG	1:D:2429:ASN:H	1.34	0.90
1:D:2428:LEU:HG	1:D:2429:ASN:N	1.87	0.90
1:A:286:VAL:N	1:A:303:PHE:CD2	2.40	0.90
1:B:2439:ARG:O	1:B:2440:PRO:C	2.13	0.89
1:B:312:HIS:ND1	1:B:358:VAL:O	2.05	0.89
1:A:312:HIS:ND1	1:A:358:VAL:O	2.05	0.89
1:A:415:MET:HA	1:A:417:LYS:HE2	1.51	0.89
1:C:286:VAL:N	1:C:303:PHE:CD2	2.40	0.89
1:D:285:GLU:O	1:D:303:PHE:CE1	2.26	0.89
1:D:312:HIS:ND1	1:D:358:VAL:O	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:222:LEU:HB3	1:D:292:CYS:HB2	1.51	0.89
1:B:130:LYS:HE3	1:B:152:ASP:HA	1.55	0.89
1:C:312:HIS:ND1	1:C:358:VAL:O	2.05	0.89
1:C:285:GLU:O	1:C:303:PHE:CE1	2.26	0.88
1:D:2428:LEU:HD21	1:D:2429:ASN:HD21	1.37	0.88
1:D:130:LYS:HE3	1:D:152:ASP:HA	1.55	0.88
1:A:2552:VAL:HA	1:A:2553:LEU:HB2	1.56	0.88
1:D:2434:VAL:HG22	1:D:2593:PHE:HZ	1.36	0.88
1:B:117:TYR:CD2	1:B:176:VAL:HA	2.09	0.88
1:B:511:ARG:NH2	1:B:569:LYS:O	2.07	0.88
1:C:2439:ARG:O	1:C:2440:PRO:C	2.12	0.88
1:C:2552:VAL:HA	1:C:2553:LEU:HB2	1.56	0.88
1:B:285:GLU:O	1:B:303:PHE:CE1	2.26	0.87
1:D:511:ARG:NH2	1:D:569:LYS:O	2.07	0.87
1:D:2432:LYS:O	1:D:2435:THR:HG23	1.74	0.87
1:C:2428:LEU:HG	1:C:2429:ASN:CG	1.99	0.87
1:D:2552:VAL:HA	1:D:2553:LEU:HB2	1.56	0.87
1:A:222:LEU:HB3	1:A:292:CYS:HB2	1.53	0.87
1:A:285:GLU:CA	1:A:303:PHE:CD2	2.58	0.87
1:A:2428:LEU:HG	1:A:2429:ASN:CG	1.99	0.87
1:D:285:GLU:CA	1:D:303:PHE:CD2	2.58	0.87
1:A:16:SER:HA	1:A:58:PHE:H	1.39	0.87
1:B:2552:VAL:HA	1:B:2553:LEU:HB2	1.56	0.87
1:D:2439:ARG:O	1:D:2440:PRO:C	2.17	0.87
1:A:2439:ARG:O	1:A:2440:PRO:C	2.12	0.87
1:B:285:GLU:CA	1:B:303:PHE:CD2	2.58	0.87
1:C:285:GLU:CA	1:C:303:PHE:CD2	2.58	0.87
1:D:2428:LEU:C	1:D:2428:LEU:HA	1.98	0.87
1:B:2586:PHE:HE2	1:C:2586:PHE:HE2	1.17	0.87
1:D:16:SER:HA	1:D:58:PHE:H	1.40	0.86
1:C:130:LYS:HE3	1:C:152:ASP:HA	1.57	0.86
1:A:130:LYS:HE3	1:A:152:ASP:HA	1.57	0.86
1:A:2732:ARG:C	1:A:2733:ILE:CA	2.48	0.86
1:B:16:SER:HA	1:B:58:PHE:H	1.40	0.86
1:D:2429:ASN:OD1	1:D:2430:VAL:N	2.07	0.86
1:D:2732:ARG:C	1:D:2733:ILE:CA	2.48	0.86
1:C:2732:ARG:C	1:C:2733:ILE:CA	2.48	0.86
1:A:2586:PHE:HE2	1:D:2586:PHE:HE2	1.17	0.86
1:B:2732:ARG:C	1:B:2733:ILE:CA	2.48	0.86
1:A:285:GLU:O	1:A:303:PHE:CE1	2.27	0.86
1:A:117:TYR:CD2	1:A:176:VAL:HA	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:117:TYR:CD2	1:C:176:VAL:HA	2.10	0.85
1:C:285:GLU:N	1:C:303:PHE:CZ	2.44	0.85
1:C:285:GLU:CA	1:C:303:PHE:CG	2.59	0.85
1:C:2434:VAL:HG22	1:C:2593:PHE:HZ	1.38	0.85
1:A:285:GLU:N	1:A:303:PHE:CZ	2.44	0.85
1:A:2586:PHE:CZ	1:D:2586:PHE:HD2	1.87	0.85
1:B:285:GLU:N	1:B:303:PHE:CZ	2.44	0.85
1:B:2428:LEU:HG	1:B:2429:ASN:CG	2.01	0.85
1:D:285:GLU:CA	1:D:303:PHE:CG	2.60	0.85
1:A:2434:VAL:HG22	1:A:2593:PHE:HZ	1.37	0.85
1:B:177:VAL:HG12	1:B:178:ILE:HD12	1.58	0.85
1:D:2430:VAL:N	1:D:2431:ILE:HD12	1.91	0.85
1:D:117:TYR:CD2	1:D:176:VAL:HA	2.09	0.85
1:D:177:VAL:HG12	1:D:178:ILE:HD12	1.58	0.85
1:A:511:ARG:NH2	1:A:569:LYS:O	2.10	0.84
1:A:2432:LYS:O	1:A:2435:THR:HG23	1.77	0.84
1:B:285:GLU:CA	1:B:303:PHE:CG	2.60	0.84
1:D:232:ASP:OD2	1:D:385:ASN:ND2	2.11	0.84
1:D:285:GLU:N	1:D:303:PHE:CZ	2.45	0.84
1:A:285:GLU:CA	1:A:303:PHE:CG	2.60	0.84
1:B:2432:LYS:O	1:B:2435:THR:HG23	1.77	0.84
1:A:18:TYR:CZ	1:A:20:GLU:HG2	2.11	0.84
1:C:18:TYR:CZ	1:C:20:GLU:HG2	2.11	0.84
1:D:2431:ILE:H	1:D:2431:ILE:CD1	1.87	0.84
1:A:232:ASP:OD2	1:A:385:ASN:ND2	2.11	0.83
1:D:249:LYS:NZ	1:D:265:ARG:O	2.11	0.83
1:B:249:LYS:NZ	1:B:265:ARG:O	2.11	0.83
1:C:16:SER:HA	1:C:58:PHE:H	1.39	0.83
1:C:511:ARG:NH2	1:C:569:LYS:O	2.10	0.83
1:A:177:VAL:HG12	1:A:178:ILE:HD12	1.60	0.83
1:C:2432:LYS:O	1:C:2435:THR:HG23	1.77	0.83
1:B:232:ASP:OD2	1:B:385:ASN:ND2	2.11	0.83
1:B:2407:PHE:CA	1:B:2408:VAL:N	2.42	0.83
1:B:18:TYR:CZ	1:B:20:GLU:HG2	2.11	0.83
1:C:177:VAL:HG12	1:C:178:ILE:HD12	1.60	0.83
1:C:249:LYS:NZ	1:C:265:ARG:O	2.10	0.83
1:D:18:TYR:CZ	1:D:20:GLU:HG2	2.11	0.83
1:C:232:ASP:OD2	1:C:385:ASN:ND2	2.11	0.83
1:D:2407:PHE:CA	1:D:2408:VAL:N	2.42	0.83
1:A:2407:PHE:CA	1:A:2408:VAL:N	2.42	0.83
1:A:285:GLU:CB	1:A:303:PHE:CD2	2.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:285:GLU:HB2	1:B:303:PHE:CG	2.14	0.82
1:B:285:GLU:CB	1:B:303:PHE:CD2	2.62	0.82
1:C:2407:PHE:CA	1:C:2408:VAL:N	2.42	0.82
1:C:2272:ASN:CA	1:C:2273:MET:N	2.42	0.82
1:D:18:TYR:CG	1:D:20:GLU:HG3	2.15	0.82
1:C:280:ALA:HA	1:C:281:LEU:HB2	1.62	0.82
1:B:280:ALA:HA	1:B:281:LEU:HB2	1.62	0.82
1:C:18:TYR:CG	1:C:20:GLU:HG3	2.14	0.82
1:C:117:TYR:CG	1:C:176:VAL:N	2.47	0.82
1:C:2580:ILE:HD13	1:C:2583:ASN:HD21	1.45	0.82
1:D:117:TYR:CG	1:D:176:VAL:N	2.48	0.82
1:A:2272:ASN:CA	1:A:2273:MET:N	2.42	0.82
1:C:285:GLU:HB2	1:C:303:PHE:CG	2.15	0.82
1:D:18:TYR:CD2	1:D:20:GLU:OE1	2.33	0.82
1:D:2272:ASN:CA	1:D:2273:MET:N	2.42	0.82
1:B:2272:ASN:CA	1:B:2273:MET:N	2.42	0.82
1:C:192:PRO:HG2	1:C:213:ASN:HD22	1.45	0.82
1:B:285:GLU:HB2	1:B:303:PHE:CD2	2.15	0.82
1:B:18:TYR:CD2	1:B:20:GLU:OE1	2.33	0.81
1:D:192:PRO:HG2	1:D:213:ASN:HD22	1.45	0.81
1:B:58:PHE:HB3	1:B:123:LEU:HD11	1.62	0.81
1:B:18:TYR:CG	1:B:20:GLU:HG3	2.15	0.81
1:C:285:GLU:CB	1:C:303:PHE:CD2	2.62	0.81
1:C:2682:SER:CA	1:C:2683:LEU:N	2.43	0.81
1:D:285:GLU:CB	1:D:303:PHE:CD2	2.62	0.81
1:D:285:GLU:HB2	1:D:303:PHE:CD2	2.15	0.81
1:A:285:GLU:HB2	1:A:303:PHE:CD2	2.15	0.81
1:A:2554:ARG:HD3	1:B:2523:ASP:HA	1.62	0.81
1:D:285:GLU:HB2	1:D:303:PHE:CG	2.14	0.81
1:A:117:TYR:CG	1:A:176:VAL:N	2.48	0.81
1:A:285:GLU:HB2	1:A:303:PHE:CG	2.15	0.81
1:A:2523:ASP:HA	1:D:2554:ARG:HD3	1.62	0.81
1:B:192:PRO:HG2	1:B:213:ASN:HD22	1.45	0.81
1:A:58:PHE:HB3	1:A:123:LEU:HD11	1.62	0.81
1:C:2431:ILE:H	1:C:2431:ILE:CD1	1.89	0.81
1:B:117:TYR:CG	1:B:176:VAL:N	2.48	0.81
1:B:2682:SER:CA	1:B:2683:LEU:N	2.43	0.81
1:A:2682:SER:CA	1:A:2683:LEU:N	2.43	0.81
1:C:18:TYR:CD2	1:C:20:GLU:OE1	2.33	0.81
1:C:387:TYR:OH	1:C:432:ILE:O	1.99	0.81
1:A:249:LYS:NZ	1:A:265:ARG:O	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2682:SER:CA	1:D:2683:LEU:N	2.43	0.81
1:B:2431:ILE:H	1:B:2431:ILE:CD1	1.89	0.81
1:D:387:TYR:OH	1:D:432:ILE:O	1.99	0.80
1:A:18:TYR:CD2	1:A:20:GLU:OE1	2.33	0.80
1:A:192:PRO:HG2	1:A:213:ASN:HD22	1.45	0.80
1:C:2374:GLY:O	1:C:2378:THR:OG1	2.00	0.80
1:A:2509:ALA:CA	1:A:2510:PRO:N	2.44	0.80
1:B:266:THR:HG22	1:B:267:THR:HG23	1.63	0.80
1:D:280:ALA:HA	1:D:281:LEU:HB2	1.62	0.80
1:D:2509:ALA:CA	1:D:2510:PRO:N	2.44	0.80
1:A:280:ALA:HA	1:A:281:LEU:HB2	1.62	0.80
1:B:2509:ALA:CA	1:B:2510:PRO:N	2.44	0.80
1:A:387:TYR:OH	1:A:432:ILE:O	1.99	0.80
1:C:285:GLU:HB2	1:C:303:PHE:CD2	2.15	0.80
1:D:58:PHE:HB3	1:D:123:LEU:HD11	1.62	0.80
1:D:2566:ARG:HA	1:D:2569:TYR:HB3	1.64	0.80
1:D:40:GLN:HG3	1:D:43:ALA:H	1.47	0.80
1:B:2434:VAL:HG22	1:B:2593:PHE:HZ	1.43	0.80
1:A:117:TYR:CE1	1:A:176:VAL:C	2.60	0.80
1:A:2566:ARG:HA	1:A:2569:TYR:HB3	1.64	0.80
1:B:2374:GLY:O	1:B:2378:THR:OG1	1.99	0.80
1:B:2580:ILE:HD13	1:B:2583:ASN:HD21	1.46	0.80
1:D:2374:GLY:O	1:D:2378:THR:OG1	1.99	0.80
1:C:18:TYR:CE1	1:C:20:GLU:OE2	2.35	0.80
1:C:2509:ALA:CA	1:C:2510:PRO:N	2.44	0.80
1:A:2580:ILE:HD13	1:A:2583:ASN:HD21	1.45	0.80
1:B:2554:ARG:HD3	1:C:2523:ASP:HA	1.62	0.80
1:C:58:PHE:HB3	1:C:123:LEU:HD11	1.62	0.80
1:A:14:ILE:HG12	1:A:59:LYS:HG3	1.63	0.79
1:D:117:TYR:CE1	1:D:176:VAL:C	2.60	0.79
1:D:2434:VAL:CG2	1:D:2593:PHE:HZ	1.95	0.79
1:A:18:TYR:CG	1:A:20:GLU:HG3	2.14	0.79
1:A:18:TYR:CE1	1:A:20:GLU:OE2	2.35	0.79
1:D:2434:VAL:HG13	1:D:2589:ILE:HG23	1.64	0.79
1:D:18:TYR:CE1	1:D:20:GLU:OE2	2.35	0.79
1:D:117:TYR:N	1:D:174:ASP:O	2.16	0.79
1:A:2434:VAL:HG13	1:A:2589:ILE:HG23	1.65	0.79
1:B:117:TYR:CE1	1:B:176:VAL:C	2.60	0.79
1:D:2580:ILE:HD13	1:D:2583:ASN:HD21	1.46	0.79
1:B:2434:VAL:HG13	1:B:2589:ILE:HG23	1.65	0.79
1:C:117:TYR:CE1	1:C:176:VAL:C	2.60	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2554:ARG:HD3	1:D:2523:ASP:HA	1.62	0.79
1:B:18:TYR:CE1	1:B:20:GLU:OE2	2.35	0.79
1:C:266:THR:HG22	1:C:267:THR:HG23	1.64	0.79
1:C:2434:VAL:HG13	1:C:2589:ILE:HG23	1.65	0.79
1:C:2437:ASN:CG	1:C:2592:THR:CG2	2.56	0.79
1:D:2428:LEU:O	1:D:2431:ILE:HD13	1.83	0.79
1:A:2414:SER:HB3	1:D:2457:ILE:HD13	1.63	0.78
1:A:117:TYR:N	1:A:174:ASP:O	2.16	0.78
1:A:266:THR:HG22	1:A:267:THR:HG23	1.64	0.78
1:B:117:TYR:N	1:B:174:ASP:O	2.16	0.78
1:B:387:TYR:OH	1:B:432:ILE:O	1.99	0.78
1:D:266:THR:HG22	1:D:267:THR:HG23	1.63	0.78
1:C:2703:GLU:HA	1:C:2706:MET:HE3	1.66	0.78
1:D:117:TYR:CZ	1:D:176:VAL:HA	2.19	0.78
1:D:2703:GLU:HA	1:D:2706:MET:HE3	1.66	0.78
1:B:2566:ARG:HA	1:B:2569:TYR:HB3	1.63	0.78
1:C:117:TYR:N	1:C:174:ASP:O	2.16	0.78
1:C:14:ILE:HG12	1:C:59:LYS:HG3	1.63	0.78
1:C:2318:LEU:HD12	1:C:2319:ILE:HG12	1.65	0.78
1:C:117:TYR:CZ	1:C:176:VAL:HA	2.18	0.78
1:A:194:HIS:ND1	1:A:210:ASN:O	2.17	0.78
1:A:2374:GLY:O	1:A:2378:THR:OG1	1.99	0.78
1:B:194:HIS:ND1	1:B:210:ASN:O	2.17	0.78
1:C:14:ILE:HG23	1:C:59:LYS:HA	1.66	0.78
1:D:194:HIS:ND1	1:D:210:ASN:O	2.17	0.78
1:D:551:HIS:O	1:D:555:LEU:N	2.17	0.78
1:A:2434:VAL:HG13	1:A:2589:ILE:HD12	1.66	0.77
1:B:551:HIS:O	1:B:555:LEU:N	2.17	0.77
1:D:14:ILE:HG12	1:D:59:LYS:HG3	1.65	0.77
1:A:2318:LEU:HD12	1:A:2319:ILE:HG12	1.65	0.77
1:A:2437:ASN:CG	1:A:2592:THR:CG2	2.56	0.77
1:B:2457:ILE:HD13	1:C:2414:SER:HB3	1.65	0.77
1:C:2434:VAL:HG13	1:C:2589:ILE:HD12	1.65	0.77
1:C:2555:LYS:HZ2	1:C:2562:LEU:HD11	1.46	0.77
1:A:2457:ILE:HD13	1:B:2414:SER:HB3	1.66	0.77
1:B:14:ILE:HG12	1:B:59:LYS:HG3	1.65	0.77
1:C:40:GLN:HG3	1:C:43:ALA:H	1.48	0.77
1:C:2566:ARG:HA	1:C:2569:TYR:HB3	1.64	0.77
1:A:2434:VAL:CG2	1:A:2593:PHE:HZ	1.97	0.77
1:D:2555:LYS:HZ2	1:D:2562:LEU:HD11	1.47	0.77
1:A:368:PHE:HB3	1:A:390:LEU:HD11	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:551:HIS:O	1:A:555:LEU:N	2.17	0.77
1:D:511:ARG:HA	1:D:515:ILE:HG12	1.67	0.77
1:D:2379:PHE:HB2	1:D:2416:LEU:HD13	1.66	0.77
1:A:2703:GLU:HA	1:A:2706:MET:HE3	1.66	0.77
1:B:2318:LEU:HD12	1:B:2319:ILE:HG12	1.66	0.77
1:B:368:PHE:HB3	1:B:390:LEU:HD11	1.66	0.77
1:C:194:HIS:ND1	1:C:210:ASN:O	2.17	0.77
1:C:511:ARG:HA	1:C:515:ILE:HG12	1.67	0.77
1:C:2434:VAL:CG2	1:C:2593:PHE:HZ	1.98	0.77
1:D:2318:LEU:HD12	1:D:2319:ILE:HG12	1.66	0.77
1:A:40:GLN:HG3	1:A:43:ALA:H	1.48	0.77
1:C:368:PHE:HB3	1:C:390:LEU:HD11	1.65	0.77
1:C:2547:GLY:H	1:D:2544:ARG:HB3	1.49	0.77
1:B:40:GLN:HG3	1:B:43:ALA:H	1.48	0.76
1:B:511:ARG:HA	1:B:515:ILE:HG12	1.67	0.76
1:B:2703:GLU:HA	1:B:2706:MET:HE3	1.65	0.76
1:C:551:HIS:O	1:C:555:LEU:N	2.17	0.76
1:A:253:CYS:HA	1:A:262:VAL:HA	1.67	0.76
1:A:2431:ILE:H	1:A:2431:ILE:CD1	1.89	0.76
1:A:2544:ARG:HB3	1:D:2547:GLY:H	1.50	0.76
1:B:2379:PHE:HB2	1:B:2416:LEU:HD13	1.67	0.76
1:A:117:TYR:CZ	1:A:176:VAL:HA	2.18	0.76
1:A:511:ARG:HA	1:A:515:ILE:HG12	1.67	0.76
1:A:2295:TYR:HB2	1:D:2531:LEU:HD13	1.68	0.76
1:A:2547:GLY:H	1:B:2544:ARG:HB3	1.50	0.76
1:B:2437:ASN:CG	1:B:2592:THR:CG2	2.58	0.76
1:A:14:ILE:HG23	1:A:59:LYS:HA	1.66	0.76
1:B:117:TYR:CZ	1:B:176:VAL:HA	2.18	0.76
1:C:2457:ILE:HD13	1:D:2414:SER:HB3	1.66	0.76
1:B:246:GLU:N	1:B:428:GLU:OE2	2.19	0.75
1:D:2329:LYS:CG	1:D:2330:PRO:HD3	2.16	0.75
1:A:2274:SER:HB3	1:A:2339:SER:HB3	1.68	0.75
1:A:2431:ILE:O	1:A:2435:THR:HG22	1.87	0.75
1:B:2431:ILE:O	1:B:2435:THR:HG22	1.86	0.75
1:B:2547:GLY:H	1:C:2544:ARG:HB3	1.50	0.75
1:C:2437:ASN:CG	1:C:2592:THR:HG22	2.12	0.75
1:C:246:GLU:N	1:C:428:GLU:OE2	2.20	0.75
1:C:253:CYS:HA	1:C:262:VAL:HA	1.67	0.75
1:C:315:ALA:HA	1:C:355:LEU:HA	1.69	0.75
1:D:208:GLU:HG2	1:D:209:VAL:H	1.52	0.75
1:D:368:PHE:HB3	1:D:390:LEU:HD11	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2274:SER:HB3	1:B:2339:SER:HB3	1.69	0.75
1:D:117:TYR:CZ	1:D:176:VAL:CG1	2.70	0.75
1:D:2434:VAL:HG22	1:D:2593:PHE:CE1	2.22	0.75
1:B:65:ARG:HG3	1:B:99:GLU:HG2	1.69	0.75
1:C:2524:LYS:HD2	1:C:2526:HIS:HD2	1.52	0.75
1:D:180:ASP:HB2	1:D:218:TRP:H	1.52	0.75
1:A:315:ALA:HA	1:A:355:LEU:HA	1.69	0.75
1:A:65:ARG:HG3	1:A:99:GLU:HG2	1.69	0.75
1:A:117:TYR:CZ	1:A:176:VAL:CG1	2.70	0.75
1:C:2274:SER:HB3	1:C:2339:SER:HB3	1.69	0.75
1:B:36:ARG:NH2	1:B:202:ASP:OD1	2.18	0.74
1:B:2329:LYS:CG	1:B:2330:PRO:HD3	2.17	0.74
1:C:65:ARG:HG3	1:C:99:GLU:HG2	1.69	0.74
1:C:2379:PHE:HB2	1:C:2416:LEU:HD13	1.69	0.74
1:C:2531:LEU:HD13	1:D:2295:TYR:HB2	1.69	0.74
1:D:404:ILE:HA	1:D:417:LYS:HD2	1.69	0.74
1:A:180:ASP:HB2	1:A:218:TRP:H	1.52	0.74
1:D:65:ARG:HG3	1:D:99:GLU:HG2	1.69	0.74
1:B:404:ILE:HA	1:B:417:LYS:HD2	1.69	0.74
1:B:2524:LYS:HD2	1:B:2526:HIS:HD2	1.53	0.74
1:D:263:PHE:HD1	1:D:416:LEU:HB3	1.53	0.74
1:D:2428:LEU:HG	1:D:2429:ASN:CG	2.13	0.74
1:A:404:ILE:HA	1:A:417:LYS:HD2	1.70	0.74
1:B:117:TYR:CZ	1:B:176:VAL:CG1	2.70	0.74
1:B:315:ALA:HA	1:B:355:LEU:HA	1.69	0.74
1:C:2329:LYS:CG	1:C:2330:PRO:HD3	2.17	0.74
1:A:36:ARG:NH2	1:A:202:ASP:OD1	2.19	0.74
1:A:263:PHE:HD1	1:A:416:LEU:HB3	1.53	0.74
1:D:315:ALA:HA	1:D:355:LEU:HA	1.69	0.74
1:A:2524:LYS:HD2	1:A:2526:HIS:HD2	1.51	0.74
1:D:246:GLU:N	1:D:428:GLU:OE2	2.19	0.74
1:B:107:ASN:HA	1:B:110:LEU:HB2	1.70	0.74
1:B:194:HIS:HB2	1:B:209:VAL:HA	1.70	0.74
1:B:2531:LEU:HD13	1:C:2295:TYR:HB2	1.67	0.74
1:D:36:ARG:NH2	1:D:202:ASP:OD1	2.18	0.74
1:C:2434:VAL:HG13	1:C:2589:ILE:CG2	2.18	0.73
1:D:2274:SER:HB3	1:D:2339:SER:HB3	1.69	0.73
1:A:2434:VAL:HG13	1:A:2589:ILE:CG2	2.18	0.73
1:A:2437:ASN:CG	1:A:2592:THR:HG22	2.12	0.73
1:C:404:ILE:HA	1:C:417:LYS:HD2	1.70	0.73
1:D:14:ILE:HG23	1:D:59:LYS:HA	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2428:LEU:HD11	1:D:2429:ASN:ND2	2.03	0.73
1:A:2379:PHE:HB2	1:A:2416:LEU:HD13	1.69	0.73
1:C:263:PHE:HD1	1:C:416:LEU:HB3	1.52	0.73
1:D:107:ASN:HA	1:D:110:LEU:HB2	1.70	0.73
1:D:194:HIS:HB2	1:D:209:VAL:HA	1.70	0.73
1:C:2431:ILE:O	1:C:2435:THR:HG22	1.87	0.73
1:D:2428:LEU:C	1:D:2428:LEU:CB	2.61	0.73
1:B:69:GLN:NE2	1:B:96:ALA:O	2.22	0.73
1:C:117:TYR:CZ	1:C:176:VAL:CG1	2.70	0.73
1:C:180:ASP:HB2	1:C:218:TRP:H	1.53	0.73
1:A:107:ASN:HA	1:A:110:LEU:HB2	1.71	0.73
1:A:208:GLU:HG2	1:A:209:VAL:H	1.54	0.73
1:B:253:CYS:HA	1:B:262:VAL:HA	1.70	0.73
1:B:263:PHE:HD1	1:B:416:LEU:HB3	1.53	0.73
1:A:194:HIS:HB2	1:A:209:VAL:HA	1.71	0.73
1:B:208:GLU:HG2	1:B:209:VAL:H	1.52	0.73
1:B:240:VAL:HG21	1:B:435:VAL:HB	1.71	0.73
1:D:2428:LEU:HD21	1:D:2429:ASN:ND2	2.03	0.73
1:A:398:TRP:H	1:A:422:PRO:HG2	1.54	0.73
1:A:2432:LYS:HA	1:A:2435:THR:CG2	2.19	0.73
1:B:2437:ASN:CG	1:B:2592:THR:HG22	2.13	0.73
1:D:15:CYS:HB3	1:D:223:PHE:HB2	1.70	0.73
1:D:253:CYS:HA	1:D:262:VAL:HA	1.70	0.72
1:B:180:ASP:HB2	1:B:218:TRP:H	1.52	0.72
1:C:107:ASN:HA	1:C:110:LEU:HB2	1.71	0.72
1:C:398:TRP:H	1:C:422:PRO:HG2	1.54	0.72
1:A:2531:LEU:HD13	1:B:2295:TYR:HB2	1.70	0.72
1:B:14:ILE:HG23	1:B:59:LYS:HA	1.69	0.72
1:A:2428:LEU:CG	1:A:2429:ASN:OD1	2.29	0.72
1:C:194:HIS:HB2	1:C:209:VAL:HA	1.71	0.72
1:D:164:GLN:O	1:D:181:LYS:NZ	2.16	0.72
1:C:2325:ILE:CG2	1:C:2329:LYS:NZ	2.49	0.72
1:D:240:VAL:HG21	1:D:435:VAL:HB	1.71	0.72
1:A:117:TYR:CG	1:A:176:VAL:HB	2.21	0.72
1:A:240:VAL:HG21	1:A:435:VAL:HB	1.71	0.72
1:C:160:TRP:NE1	1:C:185:ASN:OD1	2.23	0.72
1:B:15:CYS:HB3	1:B:223:PHE:HB2	1.70	0.72
1:D:511:ARG:HD2	1:D:515:ILE:HG21	1.72	0.72
1:C:69:GLN:NE2	1:C:96:ALA:O	2.22	0.72
1:C:285:GLU:HB3	1:C:304:ARG:O	1.90	0.72
1:D:2524:LYS:HD2	1:D:2526:HIS:HD2	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:CYS:HB3	1:A:223:PHE:HB2	1.72	0.71
1:C:2430:VAL:N	1:C:2431:ILE:HD12	2.05	0.71
1:C:2712:LEU:HD21	1:D:2707:LYS:HB3	1.73	0.71
1:A:410:GLU:HA	1:A:411:GLU:HB3	1.72	0.71
1:B:285:GLU:HB3	1:B:304:ARG:O	1.90	0.71
1:B:2434:VAL:HG13	1:B:2589:ILE:CG2	2.20	0.71
1:B:2434:VAL:CG2	1:B:2593:PHE:HZ	2.02	0.71
1:B:2462:PHE:H	1:B:2566:ARG:HH21	1.38	0.71
1:A:511:ARG:HD2	1:A:515:ILE:HG21	1.73	0.71
1:A:2430:VAL:N	1:A:2431:ILE:HD12	2.05	0.71
1:B:2434:VAL:HG13	1:B:2589:ILE:HD12	1.71	0.71
1:C:36:ARG:NH2	1:C:202:ASP:OD1	2.19	0.71
1:C:2549:VAL:HG22	1:C:2551:ASP:H	1.55	0.71
1:D:2437:ASN:CG	1:D:2592:THR:CG2	2.63	0.71
1:A:2549:VAL:HG22	1:A:2551:ASP:H	1.56	0.71
1:C:125:HIS:CE1	1:C:127:LYS:HB3	2.25	0.71
1:A:246:GLU:N	1:A:428:GLU:OE2	2.20	0.71
1:C:410:GLU:HA	1:C:411:GLU:HB3	1.72	0.71
1:C:2425:GLU:OE2	1:C:2431:ILE:CG2	2.39	0.71
1:C:2432:LYS:HA	1:C:2435:THR:CG2	2.19	0.71
1:D:160:TRP:NE1	1:D:185:ASN:OD1	2.24	0.71
1:A:160:TRP:NE1	1:A:185:ASN:OD1	2.23	0.71
1:D:2429:ASN:OD1	1:D:2430:VAL:HG23	1.91	0.71
1:B:291:PRO:O	1:B:293:ARG:NH1	2.24	0.71
1:B:548:PRO:O	1:B:552:ILE:N	2.24	0.71
1:D:410:GLU:HA	1:D:411:GLU:HB3	1.72	0.71
1:C:240:VAL:HG21	1:C:435:VAL:HB	1.71	0.70
1:C:567:TYR:CZ	1:C:570:ASN:HB3	2.26	0.70
1:D:285:GLU:HB3	1:D:304:ARG:O	1.90	0.70
1:A:285:GLU:HB3	1:A:304:ARG:O	1.90	0.70
1:A:2425:GLU:OE2	1:A:2431:ILE:CG2	2.39	0.70
1:A:2712:LEU:HD21	1:B:2707:LYS:HB3	1.72	0.70
1:B:511:ARG:HD2	1:B:515:ILE:HG21	1.72	0.70
1:B:2432:LYS:HA	1:B:2435:THR:CG2	2.21	0.70
1:C:291:PRO:O	1:C:293:ARG:NH1	2.25	0.70
1:C:2350:LEU:O	1:C:2353:THR:OG1	2.09	0.70
1:D:220:ILE:HG22	1:D:221:VAL:H	1.56	0.70
1:D:291:PRO:O	1:D:293:ARG:NH1	2.24	0.70
1:D:2462:PHE:H	1:D:2566:ARG:HH21	1.38	0.70
1:A:567:TYR:CZ	1:A:570:ASN:HB3	2.26	0.70
1:A:2232:GLU:CA	1:A:2233:ARG:CA	2.70	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2428:LEU:CA	1:D:2429:ASN:N	2.52	0.70
1:D:548:PRO:O	1:D:552:ILE:N	2.24	0.70
1:D:2549:VAL:HG22	1:D:2551:ASP:H	1.57	0.70
1:A:2350:LEU:O	1:A:2353:THR:OG1	2.08	0.70
1:B:160:TRP:NE1	1:B:185:ASN:OD1	2.24	0.70
1:B:2232:GLU:CA	1:B:2233:ARG:CA	2.70	0.70
1:B:2430:VAL:N	1:B:2431:ILE:HD12	2.05	0.70
1:B:249:LYS:HE3	1:B:264:LEU:HD23	1.73	0.70
1:C:164:GLN:O	1:C:181:LYS:NZ	2.17	0.70
1:D:45:ASP:HB3	1:D:48:ASN:HB3	1.73	0.70
1:A:116:GLN:OE1	1:A:175:SER:OG	2.09	0.70
1:A:2462:PHE:H	1:A:2566:ARG:HH21	1.38	0.70
1:B:398:TRP:H	1:B:422:PRO:HG2	1.57	0.70
1:C:54:ARG:HG2	1:C:127:LYS:HE3	1.74	0.70
1:D:249:LYS:HE3	1:D:264:LEU:HD23	1.73	0.70
1:A:125:HIS:CE1	1:A:127:LYS:HB3	2.26	0.70
1:A:2604:GLU:OE1	1:A:2604:GLU:N	2.24	0.70
1:B:194:HIS:H	1:B:210:ASN:H	1.39	0.70
1:B:410:GLU:HA	1:B:411:GLU:HB3	1.72	0.70
1:C:466:THR:OG1	1:C:469:GLU:N	2.24	0.70
1:C:2232:GLU:CA	1:C:2233:ARG:CA	2.69	0.70
1:D:125:HIS:CE1	1:D:127:LYS:HB3	2.27	0.70
1:D:2232:GLU:CA	1:D:2233:ARG:CA	2.70	0.70
1:A:291:PRO:O	1:A:293:ARG:NH1	2.25	0.70
1:B:45:ASP:HB3	1:B:48:ASN:HB3	1.73	0.70
1:C:15:CYS:HB3	1:C:223:PHE:HB2	1.72	0.70
1:C:208:GLU:HG2	1:C:209:VAL:H	1.54	0.70
1:B:220:ILE:HG22	1:B:221:VAL:H	1.56	0.70
1:B:484:VAL:HG11	1:B:497:VAL:HG13	1.74	0.70
1:C:548:PRO:O	1:C:552:ILE:N	2.24	0.70
1:C:2462:PHE:H	1:C:2566:ARG:HH21	1.38	0.70
1:D:116:GLN:OE1	1:D:175:SER:OG	2.10	0.69
1:A:548:PRO:O	1:A:552:ILE:N	2.24	0.69
1:A:2329:LYS:CG	1:A:2330:PRO:HD3	2.22	0.69
1:B:2420:LEU:O	1:B:2423:ARG:HG2	1.92	0.69
1:B:2549:VAL:HG22	1:B:2551:ASP:H	1.56	0.69
1:C:117:TYR:CG	1:C:176:VAL:HB	2.21	0.69
1:C:2420:LEU:O	1:C:2423:ARG:HG2	1.92	0.69
1:A:249:LYS:HE3	1:A:264:LEU:HD23	1.73	0.69
1:A:2273:MET:N	1:A:2343:ARG:HH12	1.90	0.69
1:B:2712:LEU:HD21	1:C:2707:LYS:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:567:TYR:CZ	1:D:570:ASN:HB3	2.28	0.69
1:A:45:ASP:HB3	1:A:48:ASN:HB3	1.74	0.69
1:B:194:HIS:ND1	1:B:210:ASN:OD1	2.26	0.69
1:B:466:THR:OG1	1:B:469:GLU:N	2.24	0.69
1:C:249:LYS:HE3	1:C:264:LEU:HD23	1.73	0.69
1:C:511:ARG:HD2	1:C:515:ILE:HG21	1.73	0.69
1:D:398:TRP:H	1:D:422:PRO:HG2	1.57	0.69
1:A:484:VAL:HG11	1:A:497:VAL:HG13	1.73	0.69
1:A:2420:LEU:O	1:A:2423:ARG:HG2	1.92	0.69
1:B:125:HIS:CE1	1:B:127:LYS:HB3	2.27	0.69
1:C:2604:GLU:N	1:C:2604:GLU:OE1	2.24	0.69
1:D:69:GLN:NE2	1:D:96:ALA:O	2.22	0.69
1:C:484:VAL:HG11	1:C:497:VAL:HG13	1.73	0.69
1:D:2273:MET:N	1:D:2343:ARG:HH12	1.90	0.69
1:A:54:ARG:HG2	1:A:127:LYS:HE3	1.74	0.69
1:A:466:THR:OG1	1:A:469:GLU:N	2.24	0.69
1:A:2707:LYS:HB3	1:D:2712:LEU:HD21	1.74	0.69
1:B:2604:GLU:OE1	1:B:2604:GLU:N	2.25	0.69
1:C:18:TYR:CE2	1:C:20:GLU:OE1	2.46	0.69
1:C:2329:LYS:HG3	1:C:2330:PRO:HD3	1.74	0.69
1:C:2428:LEU:CG	1:C:2429:ASN:OD1	2.28	0.69
1:D:484:VAL:HG11	1:D:497:VAL:HG13	1.74	0.69
1:B:164:GLN:O	1:B:181:LYS:NZ	2.16	0.69
1:C:116:GLN:OE1	1:C:175:SER:OG	2.09	0.69
1:C:2526:HIS:ND1	1:C:2528:CYS:SG	2.66	0.69
1:B:169:LEU:HD21	1:C:389:ARG:HH12	1.58	0.68
1:C:220:ILE:HG22	1:C:221:VAL:H	1.58	0.68
1:D:466:THR:OG1	1:D:469:GLU:N	2.24	0.68
1:A:2433:SER:OG	1:A:2593:PHE:CE1	2.45	0.68
1:D:194:HIS:H	1:D:210:ASN:H	1.39	0.68
1:D:2604:GLU:OE1	1:D:2604:GLU:N	2.25	0.68
1:C:45:ASP:HB3	1:C:48:ASN:HB3	1.74	0.68
1:C:2273:MET:N	1:C:2343:ARG:HH12	1.90	0.68
1:D:54:ARG:HG2	1:D:127:LYS:HE3	1.75	0.68
1:D:194:HIS:ND1	1:D:210:ASN:OD1	2.26	0.68
1:A:141:LEU:HB2	1:A:148:ARG:HG2	1.76	0.68
1:B:2425:GLU:OE2	1:B:2431:ILE:CG2	2.42	0.68
1:C:2433:SER:OG	1:C:2593:PHE:CE1	2.45	0.68
1:D:189:ALA:HB3	1:D:190:GLY:HA2	1.76	0.68
1:D:2434:VAL:CG2	1:D:2593:PHE:CZ	2.70	0.68
1:A:18:TYR:CE2	1:A:20:GLU:OE1	2.46	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:GLN:HG2	1:A:181:LYS:HE3	1.76	0.68
1:A:2526:HIS:ND1	1:A:2528:CYS:SG	2.66	0.68
1:B:2273:MET:N	1:B:2343:ARG:HH12	1.91	0.68
1:B:2329:LYS:HG3	1:B:2330:PRO:HD3	1.75	0.68
1:D:2425:GLU:OE2	1:D:2431:ILE:HG21	1.93	0.68
1:B:181:LYS:HD3	1:B:219:LYS:HE2	1.76	0.68
1:B:189:ALA:HB3	1:B:190:GLY:HA2	1.75	0.68
1:C:2437:ASN:CG	1:C:2592:THR:HG21	2.19	0.68
1:D:2420:LEU:O	1:D:2423:ARG:HG2	1.92	0.68
1:D:2460:TYR:OH	1:D:2551:ASP:OD2	2.09	0.68
1:A:189:ALA:HB3	1:A:190:GLY:HA2	1.76	0.68
1:B:54:ARG:HG2	1:B:127:LYS:HE3	1.75	0.68
1:B:180:ASP:HA	1:B:219:LYS:HB2	1.76	0.68
1:D:2434:VAL:HG13	1:D:2589:ILE:CG2	2.24	0.68
1:A:220:ILE:HG22	1:A:221:VAL:H	1.58	0.68
1:D:141:LEU:HB2	1:D:148:ARG:HG2	1.74	0.68
1:A:169:LEU:HD21	1:B:389:ARG:HH12	1.59	0.68
1:B:2555:LYS:HZ2	1:B:2562:LEU:HD11	1.57	0.68
1:C:169:LEU:HD21	1:D:389:ARG:HH12	1.59	0.68
1:C:2707:LYS:O	1:C:2710:THR:OG1	2.09	0.68
1:D:2329:LYS:HG3	1:D:2330:PRO:HD3	1.74	0.68
1:D:2726:GLN:OE1	1:D:2729:GLN:NE2	2.27	0.68
1:B:567:TYR:CZ	1:B:570:ASN:HB3	2.28	0.67
1:B:2321:LEU:HA	1:B:2324:VAL:HB	1.76	0.67
1:C:2726:GLN:OE1	1:C:2729:GLN:NE2	2.26	0.67
1:D:288:GLN:N	1:D:289:HIS:O	2.27	0.67
1:A:69:GLN:NE2	1:A:96:ALA:O	2.22	0.67
1:A:2726:GLN:OE1	1:A:2729:GLN:NE2	2.26	0.67
1:C:164:GLN:HG2	1:C:181:LYS:HE3	1.76	0.67
1:C:241:ARG:HA	1:C:282:TRP:HB3	1.77	0.67
1:D:2321:LEU:HA	1:D:2324:VAL:HB	1.76	0.67
1:A:136:LYS:HD3	1:A:188:ASN:HB3	1.76	0.67
1:A:2555:LYS:HZ2	1:A:2562:LEU:HD11	1.58	0.67
1:D:180:ASP:HA	1:D:219:LYS:HB2	1.76	0.67
1:D:181:LYS:HD3	1:D:219:LYS:HE2	1.76	0.67
1:D:285:GLU:CB	1:D:303:PHE:CG	2.77	0.67
1:D:2350:LEU:O	1:D:2353:THR:OG1	2.12	0.67
1:A:389:ARG:HH12	1:D:169:LEU:HD21	1.58	0.67
1:B:288:GLN:N	1:B:289:HIS:O	2.27	0.67
1:B:2726:GLN:OE1	1:B:2729:GLN:NE2	2.27	0.67
1:C:180:ASP:HA	1:C:219:LYS:HB2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:194:HIS:H	1:C:210:ASN:H	1.41	0.67
1:D:11:ILE:O	1:D:226:TRP:NE1	2.28	0.67
1:A:28:SER:HB2	1:A:56:CYS:HA	1.76	0.67
1:A:124:LEU:HA	1:A:131:TYR:HB2	1.77	0.67
1:B:2439:ARG:HB3	1:B:2440:PRO:HD2	1.77	0.67
1:C:2439:ARG:HB3	1:C:2440:PRO:HD2	1.77	0.67
1:D:136:LYS:HD3	1:D:188:ASN:HB3	1.76	0.67
1:D:164:GLN:HG2	1:D:181:LYS:HE3	1.77	0.67
1:B:141:LEU:HB2	1:B:148:ARG:HG2	1.75	0.67
1:B:241:ARG:HA	1:B:282:TRP:HB3	1.77	0.67
1:B:2554:ARG:NH2	1:C:2519:GLU:O	2.28	0.67
1:D:18:TYR:CE2	1:D:20:GLU:OE1	2.47	0.67
1:A:2325:ILE:CG2	1:A:2329:LYS:NZ	2.55	0.67
1:A:2554:ARG:NH2	1:B:2519:GLU:O	2.28	0.67
1:B:164:GLN:HG2	1:B:181:LYS:HE3	1.77	0.67
1:C:285:GLU:CB	1:C:303:PHE:CG	2.78	0.67
1:D:2526:HIS:ND1	1:D:2528:CYS:SG	2.68	0.67
1:A:194:HIS:H	1:A:210:ASN:H	1.41	0.67
1:B:18:TYR:CE2	1:B:20:GLU:OE1	2.47	0.67
1:D:229:ASN:O	1:D:235:LYS:NZ	2.28	0.67
1:A:164:GLN:O	1:A:181:LYS:NZ	2.17	0.67
1:A:180:ASP:HA	1:A:219:LYS:HB2	1.76	0.67
1:A:181:LYS:HD3	1:A:219:LYS:HE2	1.76	0.67
1:B:285:GLU:CB	1:B:303:PHE:CG	2.77	0.67
1:A:117:TYR:CG	1:A:176:VAL:CG2	2.78	0.66
1:A:2707:LYS:O	1:A:2710:THR:OG1	2.09	0.66
1:B:178:ILE:HG12	1:B:221:VAL:HA	1.77	0.66
1:B:229:ASN:O	1:B:235:LYS:NZ	2.28	0.66
1:B:2350:LEU:O	1:B:2353:THR:OG1	2.12	0.66
1:B:2526:HIS:ND1	1:B:2528:CYS:SG	2.68	0.66
1:C:11:ILE:O	1:C:226:TRP:NE1	2.28	0.66
1:C:136:LYS:HD3	1:C:188:ASN:HB3	1.76	0.66
1:A:2439:ARG:HB3	1:A:2440:PRO:HD2	1.77	0.66
1:B:389:ARG:NH1	1:B:427:LYS:O	2.28	0.66
1:C:28:SER:HB2	1:C:56:CYS:HA	1.77	0.66
1:C:181:LYS:HD3	1:C:219:LYS:HE2	1.76	0.66
1:B:117:TYR:CG	1:B:176:VAL:CG2	2.79	0.66
1:C:288:GLN:N	1:C:289:HIS:O	2.28	0.66
1:D:159:SER:HA	1:D:160:TRP:O	1.96	0.66
1:D:2437:ASN:CG	1:D:2592:THR:HG22	2.21	0.66
1:A:159:SER:HA	1:A:160:TRP:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2434:VAL:CG2	1:A:2593:PHE:CZ	2.74	0.66
1:B:2433:SER:OG	1:B:2593:PHE:CE1	2.48	0.66
1:C:141:LEU:HB2	1:C:148:ARG:HG2	1.76	0.66
1:C:198:HIS:N	1:C:207:ASN:OD1	2.29	0.66
1:C:574:ILE:HA	1:C:577:GLN:HB2	1.77	0.66
1:C:2434:VAL:CG1	1:C:2589:ILE:HD12	2.26	0.66
1:D:178:ILE:HG12	1:D:221:VAL:HA	1.77	0.66
1:A:288:GLN:N	1:A:289:HIS:O	2.28	0.66
1:A:2321:LEU:HA	1:A:2324:VAL:HB	1.78	0.66
1:A:2329:LYS:HG3	1:A:2330:PRO:HD3	1.78	0.66
1:A:2437:ASN:CG	1:A:2592:THR:HG21	2.19	0.66
1:A:2457:ILE:HD13	1:B:2414:SER:CB	2.26	0.66
1:B:2325:ILE:CG2	1:B:2329:LYS:NZ	2.54	0.66
1:B:2434:VAL:CG2	1:B:2593:PHE:CZ	2.77	0.66
1:B:2707:LYS:O	1:B:2710:THR:OG1	2.09	0.66
1:C:563:SER:O	1:C:570:ASN:ND2	2.27	0.66
1:C:2554:ARG:NH2	1:D:2519:GLU:O	2.28	0.66
1:A:178:ILE:HG12	1:A:221:VAL:HA	1.77	0.66
1:A:389:ARG:NH1	1:A:427:LYS:O	2.29	0.66
1:B:2457:ILE:HD13	1:C:2414:SER:CB	2.26	0.66
1:D:389:ARG:NH1	1:D:427:LYS:O	2.28	0.66
1:A:193:LEU:HA	1:A:210:ASN:C	2.21	0.66
1:A:194:HIS:ND1	1:A:210:ASN:OD1	2.28	0.66
1:A:563:SER:O	1:A:570:ASN:ND2	2.28	0.66
1:B:11:ILE:O	1:B:226:TRP:NE1	2.28	0.66
1:B:136:LYS:HD3	1:B:188:ASN:HB3	1.76	0.66
1:C:229:ASN:O	1:C:235:LYS:NZ	2.29	0.66
1:A:2348:VAL:HG13	1:A:2351:GLN:HB2	1.78	0.66
1:B:28:SER:HB2	1:B:56:CYS:HA	1.78	0.66
1:B:133:THR:O	1:B:137:ARG:NH1	2.28	0.66
1:C:159:SER:HA	1:C:160:TRP:O	1.96	0.66
1:C:189:ALA:HB3	1:C:190:GLY:HA2	1.76	0.66
1:C:193:LEU:HA	1:C:210:ASN:C	2.21	0.66
1:D:28:SER:HB2	1:D:56:CYS:HA	1.78	0.66
1:D:193:LEU:HA	1:D:210:ASN:C	2.21	0.66
1:A:241:ARG:HA	1:A:282:TRP:HB3	1.77	0.66
1:A:285:GLU:CB	1:A:303:PHE:CG	2.78	0.66
1:A:384:ARG:O	1:A:386:SER:N	2.29	0.66
1:A:2414:SER:CB	1:D:2457:ILE:HD13	2.26	0.66
1:A:2519:GLU:O	1:D:2554:ARG:NH2	2.28	0.66
1:C:117:TYR:CG	1:C:176:VAL:CG2	2.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:384:ARG:O	1:C:386:SER:N	2.29	0.66
1:C:2527:THR:OG1	1:C:2529:GLU:OE1	2.14	0.66
1:A:11:ILE:O	1:A:226:TRP:NE1	2.28	0.65
1:B:2348:VAL:HG13	1:B:2351:GLN:HB2	1.78	0.65
1:C:124:LEU:HA	1:C:131:TYR:HB2	1.77	0.65
1:D:117:TYR:CG	1:D:176:VAL:CG2	2.79	0.65
1:A:198:HIS:N	1:A:207:ASN:OD1	2.29	0.65
1:B:193:LEU:HA	1:B:210:ASN:C	2.21	0.65
1:C:2586:PHE:CD2	1:D:2586:PHE:CE2	2.75	0.65
1:D:307:HIS:HD2	1:D:309:ALA:HB3	1.61	0.65
1:A:122:GLN:NE2	1:A:159:SER:O	2.30	0.65
1:B:159:SER:HA	1:B:160:TRP:O	1.96	0.65
1:C:178:ILE:HG12	1:C:221:VAL:HA	1.77	0.65
1:D:241:ARG:HA	1:D:282:TRP:HB3	1.77	0.65
1:A:133:THR:O	1:A:137:ARG:NH1	2.29	0.65
1:A:229:ASN:O	1:A:235:LYS:NZ	2.29	0.65
1:B:124:LEU:HA	1:B:131:TYR:HB2	1.78	0.65
1:B:2437:ASN:CG	1:B:2592:THR:HG21	2.21	0.65
1:C:524:GLN:HA	1:C:527:PHE:HB3	1.79	0.65
1:C:2516:PRO:HA	1:C:2519:GLU:HG2	1.79	0.65
1:A:371:ASP:HB3	1:A:389:ARG:HB2	1.79	0.65
1:C:2321:LEU:HA	1:C:2324:VAL:HB	1.78	0.65
1:C:2429:ASN:OD1	1:C:2429:ASN:N	2.29	0.65
1:A:505:GLU:O	1:A:507:GLN:N	2.29	0.65
1:C:194:HIS:ND1	1:C:210:ASN:OD1	2.28	0.65
1:C:389:ARG:NH1	1:C:427:LYS:O	2.29	0.65
1:C:2457:ILE:HD13	1:D:2414:SER:CB	2.26	0.65
1:D:133:THR:O	1:D:137:ARG:NH1	2.28	0.65
1:D:2527:THR:OG1	1:D:2529:GLU:OE1	2.13	0.65
1:B:198:HIS:N	1:B:207:ASN:OD1	2.29	0.65
1:B:505:GLU:O	1:B:507:GLN:N	2.30	0.65
1:C:2348:VAL:HG13	1:C:2351:GLN:HB2	1.78	0.65
1:D:13:ASP:OD1	1:D:225:LYS:HA	1.97	0.65
1:D:539:GLU:O	1:D:543:ASP:N	2.30	0.65
1:D:2348:VAL:HG13	1:D:2351:GLN:HB2	1.78	0.65
1:B:170:ARG:HH12	1:C:373:THR:HG21	1.62	0.65
1:B:2527:THR:OG1	1:B:2529:GLU:OE1	2.13	0.65
1:C:2731:GLN:HE21	1:D:394:CYS:HB3	1.62	0.65
1:A:2516:PRO:HA	1:A:2519:GLU:HG2	1.79	0.65
1:B:2460:TYR:OH	1:B:2551:ASP:OD2	2.09	0.65
1:C:133:THR:O	1:C:137:ARG:NH1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:124:LEU:HA	1:D:131:TYR:HB2	1.78	0.65
1:D:198:HIS:N	1:D:207:ASN:OD1	2.29	0.65
1:A:2434:VAL:CG1	1:A:2589:ILE:HD12	2.27	0.65
1:C:13:ASP:OD1	1:C:225:LYS:HA	1.97	0.65
1:D:384:ARG:O	1:D:386:SER:N	2.30	0.65
1:D:505:GLU:O	1:D:507:GLN:N	2.30	0.65
1:D:2516:PRO:HA	1:D:2519:GLU:HG2	1.79	0.65
1:C:371:ASP:HB3	1:C:389:ARG:HB2	1.79	0.64
1:D:453:LEU:HA	1:D:456:ILE:HG12	1.80	0.64
1:D:2437:ASN:CG	1:D:2592:THR:HG21	2.22	0.64
1:D:2439:ARG:HB3	1:D:2440:PRO:HD2	1.79	0.64
1:A:13:ASP:OD1	1:A:225:LYS:HA	1.97	0.64
1:A:574:ILE:HA	1:A:577:GLN:HB2	1.77	0.64
1:A:2731:GLN:HE21	1:B:394:CYS:HB3	1.62	0.64
1:B:122:GLN:NE2	1:B:159:SER:O	2.30	0.64
1:A:524:GLN:HA	1:A:527:PHE:HB3	1.79	0.64
1:C:122:GLN:NE2	1:C:159:SER:O	2.30	0.64
1:D:117:TYR:CZ	1:D:176:VAL:C	2.76	0.64
1:D:533:GLY:HA2	1:D:537:ARG:HB3	1.79	0.64
1:A:250:PHE:CZ	1:A:272:ALA:HB1	2.33	0.64
1:B:307:HIS:HD2	1:B:309:ALA:HB3	1.62	0.64
1:B:384:ARG:O	1:B:386:SER:N	2.30	0.64
1:B:453:LEU:HA	1:B:456:ILE:HG12	1.80	0.64
1:B:533:GLY:HA2	1:B:537:ARG:HB3	1.79	0.64
1:B:551:HIS:HA	1:B:554:ARG:HD3	1.80	0.64
1:B:2516:PRO:HA	1:B:2519:GLU:HG2	1.79	0.64
1:B:563:SER:O	1:B:570:ASN:ND2	2.31	0.64
1:D:563:SER:O	1:D:570:ASN:ND2	2.31	0.64
1:A:307:HIS:CD2	1:A:309:ALA:HB3	2.33	0.64
1:C:250:PHE:CZ	1:C:272:ALA:HB1	2.33	0.64
1:A:307:HIS:HD2	1:A:309:ALA:HB3	1.63	0.64
1:A:477:LEU:HG	1:A:555:LEU:HD22	1.79	0.64
1:A:2429:ASN:OD1	1:A:2429:ASN:N	2.30	0.64
1:C:307:HIS:HD2	1:C:309:ALA:HB3	1.63	0.64
1:C:505:GLU:O	1:C:507:GLN:N	2.30	0.64
1:C:2615:GLY:CA	1:C:2616:LEU:CA	2.76	0.64
1:D:250:PHE:CZ	1:D:272:ALA:HB1	2.33	0.64
1:A:185:ASN:HB3	1:A:191:GLN:HG3	1.80	0.64
1:A:2600:LYS:HD3	1:A:2603:LYS:HZ3	1.62	0.64
1:B:1091:GLN:CA	1:B:1092:GLU:CA	2.76	0.64
1:A:303:PHE:CD2	1:A:303:PHE:CB	2.76	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:391:ARG:HD3	1:A:398:TRP:CE3	2.33	0.64
1:A:533:GLY:HA2	1:A:537:ARG:HB3	1.79	0.64
1:C:453:LEU:HA	1:C:456:ILE:HG12	1.80	0.64
1:D:392:HIS:NE2	1:D:394:CYS:SG	2.39	0.64
1:D:2707:LYS:O	1:D:2710:THR:OG1	2.08	0.64
1:A:2615:GLY:CA	1:A:2616:LEU:CA	2.76	0.63
1:B:307:HIS:CD2	1:B:309:ALA:HB3	2.33	0.63
1:C:27:ILE:HG13	1:C:218:TRP:HZ3	1.63	0.63
1:C:117:TYR:CE2	1:C:170:ARG:HD3	2.33	0.63
1:C:391:ARG:HD3	1:C:398:TRP:CE3	2.33	0.63
1:D:117:TYR:CE2	1:D:170:ARG:HD3	2.33	0.63
1:A:373:THR:HG21	1:D:170:ARG:HH12	1.62	0.63
1:A:547:ALA:HB3	1:A:548:PRO:HD3	1.80	0.63
1:B:493:ASP:O	1:B:558:ARG:NH2	2.32	0.63
1:B:545:ARG:HE	1:B:547:ALA:HA	1.63	0.63
1:D:307:HIS:CD2	1:D:309:ALA:HB3	2.33	0.63
1:D:400:HIS:ND1	1:D:422:PRO:HB3	2.13	0.63
1:A:18:TYR:CE2	1:A:20:GLU:CB	2.82	0.63
1:A:27:ILE:HG13	1:A:218:TRP:HZ3	1.63	0.63
1:A:551:HIS:HA	1:A:554:ARG:HD3	1.80	0.63
1:B:2731:GLN:HE21	1:C:394:CYS:HB3	1.63	0.63
1:C:368:PHE:HA	1:C:392:HIS:HA	1.80	0.63
1:C:1091:GLN:CA	1:C:1092:GLU:CA	2.76	0.63
1:D:125:HIS:O	1:D:129:ASN:N	2.31	0.63
1:D:1091:GLN:CA	1:D:1092:GLU:CA	2.76	0.63
1:B:13:ASP:OD1	1:B:225:LYS:HA	1.97	0.63
1:B:139:PRO:HG2	1:B:148:ARG:HH12	1.63	0.63
1:B:400:HIS:ND1	1:B:422:PRO:HB3	2.13	0.63
1:D:122:GLN:NE2	1:D:159:SER:O	2.30	0.63
1:D:191:GLN:HB3	1:D:192:PRO:HA	1.81	0.63
1:D:574:ILE:HA	1:D:577:GLN:HB2	1.80	0.63
1:A:117:TYR:CE2	1:A:170:ARG:HD3	2.33	0.63
1:B:117:TYR:CE2	1:B:170:ARG:HD3	2.33	0.63
1:B:191:GLN:HB3	1:B:192:PRO:HA	1.81	0.63
1:C:191:GLN:HB3	1:C:192:PRO:HA	1.81	0.63
1:C:453:LEU:HG	1:C:456:ILE:HD11	1.80	0.63
1:A:191:GLN:HB3	1:A:192:PRO:HA	1.81	0.63
1:A:2429:ASN:C	1:A:2431:ILE:HD12	2.24	0.63
1:B:27:ILE:HG13	1:B:218:TRP:HZ3	1.64	0.63
1:B:453:LEU:HG	1:B:456:ILE:HD11	1.81	0.63
1:B:2317:MET:HA	1:B:2320:SER:HA	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:307:HIS:CD2	1:C:309:ALA:HB3	2.33	0.63
1:D:2598:SER:O	1:D:2601:GLN:HG2	1.99	0.63
1:A:117:TYR:CZ	1:A:176:VAL:C	2.76	0.63
1:A:453:LEU:HA	1:A:456:ILE:HG12	1.80	0.63
1:A:2547:GLY:N	1:B:2544:ARG:HD2	2.14	0.63
1:B:125:HIS:O	1:B:129:ASN:N	2.31	0.63
1:B:250:PHE:CZ	1:B:272:ALA:HB1	2.33	0.63
1:B:547:ALA:HB3	1:B:548:PRO:HD3	1.81	0.63
1:B:2455:PHE:HA	1:B:2458:VAL:HG12	1.81	0.63
1:C:18:TYR:CE2	1:C:20:GLU:CB	2.81	0.63
1:C:400:HIS:ND1	1:C:422:PRO:HB3	2.14	0.63
1:C:2455:PHE:HA	1:C:2458:VAL:HG12	1.81	0.63
1:D:477:LEU:HG	1:D:555:LEU:HD22	1.79	0.63
1:D:493:ASP:O	1:D:558:ARG:NH2	2.31	0.63
1:D:2446:ALA:O	1:D:2450:ILE:HG12	1.99	0.63
1:D:2455:PHE:HA	1:D:2458:VAL:HG12	1.81	0.63
1:A:45:ASP:OD1	1:A:46:LEU:N	2.32	0.63
1:A:394:CYS:HB3	1:D:2731:GLN:HE21	1.63	0.63
1:A:551:HIS:HA	1:A:554:ARG:HB2	1.80	0.63
1:A:1091:GLN:CA	1:A:1092:GLU:CA	2.76	0.63
1:B:2429:ASN:OD1	1:B:2429:ASN:N	2.31	0.63
1:B:2446:ALA:O	1:B:2450:ILE:HG12	1.99	0.63
1:B:2615:GLY:CA	1:B:2616:LEU:CA	2.76	0.63
1:C:117:TYR:CZ	1:C:176:VAL:C	2.76	0.63
1:A:2455:PHE:HA	1:A:2458:VAL:HG12	1.80	0.63
1:B:18:TYR:CE2	1:B:20:GLU:CB	2.82	0.63
1:B:315:ALA:O	1:B:421:SER:OG	2.16	0.63
1:C:185:ASN:HB3	1:C:191:GLN:HG3	1.80	0.63
1:C:2446:ALA:O	1:C:2450:ILE:HG12	1.99	0.63
1:D:105:THR:HG23	1:D:108:ARG:HH21	1.64	0.63
1:D:371:ASP:HB3	1:D:389:ARG:HB2	1.81	0.63
1:A:539:GLU:O	1:A:543:ASP:N	2.31	0.62
1:B:117:TYR:CZ	1:B:176:VAL:C	2.76	0.62
1:C:551:HIS:HA	1:C:554:ARG:HB2	1.80	0.62
1:A:170:ARG:HH12	1:B:373:THR:HG21	1.64	0.62
1:C:551:HIS:HA	1:C:554:ARG:HD3	1.80	0.62
1:A:71:GLN:HA	1:A:74:LYS:HZ3	1.63	0.62
1:B:162:TYR:HB2	1:B:185:ASN:HB3	1.82	0.62
1:B:574:ILE:HA	1:B:577:GLN:HB2	1.80	0.62
1:C:493:ASP:O	1:C:558:ARG:NH2	2.32	0.62
1:C:2434:VAL:CG2	1:C:2593:PHE:CZ	2.75	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2523:ASP:OD1	1:C:2524:LYS:N	2.32	0.62
1:D:551:HIS:HA	1:D:554:ARG:HD3	1.80	0.62
1:A:368:PHE:HA	1:A:392:HIS:HA	1.80	0.62
1:A:2598:SER:O	1:A:2601:GLN:HG2	1.99	0.62
1:B:371:ASP:HB3	1:B:389:ARG:HB2	1.81	0.62
1:B:507:GLN:NE2	1:B:562:HIS:O	2.33	0.62
1:C:45:ASP:OD1	1:C:46:LEU:N	2.32	0.62
1:C:170:ARG:HH12	1:D:373:THR:HG21	1.65	0.62
1:D:368:PHE:HA	1:D:392:HIS:HA	1.82	0.62
1:D:450:SER:HA	1:D:517:LYS:HE2	1.80	0.62
1:D:453:LEU:HG	1:D:456:ILE:HD11	1.81	0.62
1:D:2317:MET:HA	1:D:2320:SER:HA	1.81	0.62
1:D:2615:GLY:CA	1:D:2616:LEU:CA	2.76	0.62
1:A:493:ASP:O	1:A:558:ARG:NH2	2.32	0.62
1:C:533:GLY:HA2	1:C:537:ARG:HB3	1.79	0.62
1:D:162:TYR:HB2	1:D:185:ASN:HB3	1.82	0.62
1:A:162:TYR:HB2	1:A:185:ASN:HB3	1.81	0.62
1:B:116:GLN:OE1	1:B:175:SER:OG	2.10	0.62
1:B:368:PHE:HA	1:B:392:HIS:HA	1.81	0.62
1:B:2429:ASN:C	1:B:2431:ILE:HD12	2.24	0.62
1:C:146:ALA:O	1:C:147:MET:HG3	2.00	0.62
1:C:162:TYR:HB2	1:C:185:ASN:HB3	1.82	0.62
1:C:249:LYS:HB3	1:C:264:LEU:HD23	1.82	0.62
1:D:27:ILE:HG13	1:D:218:TRP:HZ3	1.64	0.62
1:D:139:PRO:HG2	1:D:148:ARG:HH12	1.63	0.62
1:A:400:HIS:ND1	1:A:422:PRO:HB3	2.14	0.62
1:B:256:HIS:N	1:B:259:LYS:O	2.31	0.62
1:B:397:THR:HG21	1:B:423:LEU:HA	1.81	0.62
1:C:196:SER:HB2	1:C:207:ASN:HB3	1.82	0.62
1:C:231:ASP:O	1:C:233:ILE:N	2.33	0.62
1:C:2429:ASN:C	1:C:2431:ILE:HD12	2.24	0.62
1:C:2460:TYR:OH	1:C:2551:ASP:OD2	2.10	0.62
1:D:18:TYR:CE2	1:D:20:GLU:CB	2.82	0.62
1:D:524:GLN:HA	1:D:527:PHE:HB3	1.81	0.62
1:D:545:ARG:HE	1:D:547:ALA:HA	1.64	0.62
1:A:139:PRO:HG2	1:A:148:ARG:HH12	1.64	0.62
1:B:281:LEU:HG	1:B:309:ALA:HB1	1.82	0.62
1:B:146:ALA:O	1:B:147:MET:HG3	2.00	0.62
1:B:539:GLU:O	1:B:543:ASP:N	2.30	0.62
1:B:2523:ASP:OD1	1:B:2524:LYS:N	2.33	0.62
1:B:2598:SER:O	1:B:2601:GLN:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:547:ALA:HB3	1:C:548:PRO:HD3	1.80	0.62
1:D:397:THR:HG21	1:D:423:LEU:HA	1.81	0.62
1:D:2325:ILE:CG2	1:D:2329:LYS:NZ	2.54	0.62
1:A:146:ALA:O	1:A:147:MET:HG3	2.00	0.62
1:A:577:GLN:OE1	1:A:577:GLN:N	2.32	0.62
1:B:249:LYS:HB3	1:B:264:LEU:HD23	1.82	0.62
1:B:477:LEU:HG	1:B:555:LEU:HD22	1.80	0.62
1:C:270:GLN:HG3	1:C:271:SER:H	1.64	0.62
1:C:397:THR:HG21	1:C:423:LEU:HA	1.81	0.62
1:C:477:LEU:HG	1:C:555:LEU:HD22	1.79	0.62
1:C:2288:ASN:HA	1:C:2291:VAL:HG12	1.82	0.62
1:D:18:TYR:CD2	1:D:20:GLU:CB	2.83	0.62
1:D:249:LYS:HB3	1:D:264:LEU:HD23	1.82	0.62
1:D:547:ALA:HB3	1:D:548:PRO:HD3	1.81	0.62
1:D:2600:LYS:HD3	1:D:2603:LYS:HZ3	1.64	0.62
1:A:18:TYR:CD2	1:A:20:GLU:CB	2.83	0.61
1:A:397:THR:HG21	1:A:423:LEU:HA	1.81	0.61
1:A:453:LEU:HG	1:A:456:ILE:HD11	1.80	0.61
1:B:18:TYR:CD2	1:B:20:GLU:CB	2.83	0.61
1:C:29:THR:HG21	1:C:37:CYS:HA	1.82	0.61
1:D:69:GLN:HE22	1:D:100:LYS:HG2	1.65	0.61
1:D:281:LEU:HG	1:D:309:ALA:HB1	1.82	0.61
1:D:391:ARG:HD3	1:D:398:TRP:CE3	2.35	0.61
1:D:507:GLN:NE2	1:D:562:HIS:O	2.33	0.61
1:D:2523:ASP:OD1	1:D:2524:LYS:N	2.32	0.61
1:B:450:SER:HA	1:B:517:LYS:HE2	1.80	0.61
1:C:125:HIS:O	1:C:129:ASN:N	2.33	0.61
1:D:45:ASP:OD1	1:D:46:LEU:N	2.33	0.61
1:A:29:THR:HG21	1:A:37:CYS:HA	1.82	0.61
1:A:2523:ASP:OD1	1:A:2524:LYS:N	2.32	0.61
1:B:20:GLU:HA	1:B:24:ASN:HA	1.82	0.61
1:A:2317:MET:HA	1:A:2320:SER:HA	1.81	0.61
1:B:196:SER:HB2	1:B:207:ASN:HB3	1.82	0.61
1:B:303:PHE:CD2	1:B:303:PHE:CB	2.76	0.61
1:C:739:LEU:CA	1:C:740:PHE:CA	2.78	0.61
1:C:2460:TYR:HA	1:C:2566:ARG:NH1	2.15	0.61
1:C:2598:SER:O	1:C:2601:GLN:HG2	2.00	0.61
1:D:2460:TYR:HA	1:D:2566:ARG:NH1	2.16	0.61
1:A:18:TYR:CD1	1:A:20:GLU:OE2	2.54	0.61
1:A:270:GLN:HG3	1:A:271:SER:H	1.64	0.61
1:A:2446:ALA:O	1:A:2450:ILE:HG12	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:VAL:HB	1:B:283:GLU:HA	1.82	0.61
1:B:400:HIS:HB2	1:B:420:THR:HG21	1.82	0.61
1:B:2600:LYS:HA	1:B:2603:LYS:HG2	1.82	0.61
1:C:539:GLU:O	1:C:543:ASP:N	2.30	0.61
1:C:2600:LYS:HD3	1:C:2603:LYS:HZ3	1.64	0.61
1:D:20:GLU:HA	1:D:24:ASN:HA	1.83	0.61
1:D:231:ASP:O	1:D:233:ILE:N	2.34	0.61
1:D:2432:LYS:C	1:D:2435:THR:HG23	2.26	0.61
1:A:231:ASP:O	1:A:233:ILE:N	2.33	0.61
1:B:45:ASP:OD1	1:B:46:LEU:N	2.33	0.61
1:B:105:THR:HG23	1:B:108:ARG:HH21	1.64	0.61
1:B:2460:TYR:HA	1:B:2566:ARG:NH1	2.15	0.61
1:D:146:ALA:O	1:D:147:MET:HG3	2.00	0.61
1:A:392:HIS:NE2	1:A:394:CYS:SG	2.38	0.61
1:A:2460:TYR:HA	1:A:2566:ARG:NH1	2.15	0.61
1:A:2600:LYS:HA	1:A:2603:LYS:HG2	1.83	0.61
1:B:2600:LYS:HD3	1:B:2603:LYS:HZ3	1.64	0.61
1:C:359:PRO:HB2	1:C:360:GLU:HA	1.83	0.61
1:C:450:SER:HA	1:C:517:LYS:HE2	1.81	0.61
1:A:739:LEU:CA	1:A:740:PHE:CA	2.78	0.61
1:A:2527:THR:OG1	1:A:2529:GLU:OE1	2.14	0.61
1:C:2547:GLY:N	1:D:2544:ARG:HD2	2.15	0.61
1:D:2600:LYS:HA	1:D:2603:LYS:HG2	1.82	0.61
1:A:105:THR:HG23	1:A:108:ARG:HH21	1.65	0.61
1:A:125:HIS:O	1:A:129:ASN:N	2.33	0.61
1:A:181:LYS:HB2	1:A:219:LYS:HZ3	1.65	0.61
1:A:450:SER:HA	1:A:517:LYS:HE2	1.81	0.61
1:A:2288:ASN:HA	1:A:2291:VAL:HG12	1.82	0.61
1:A:2432:LYS:C	1:A:2435:THR:HG23	2.26	0.61
1:A:2460:TYR:OH	1:A:2551:ASP:OD2	2.10	0.61
1:B:2434:VAL:HG22	1:B:2593:PHE:CE1	2.35	0.61
1:D:281:LEU:HG	1:D:309:ALA:CB	2.31	0.61
1:D:2430:VAL:H	1:D:2431:ILE:HD12	1.66	0.61
1:A:429:ALA:HB2	1:D:169:LEU:HG	1.83	0.61
1:B:231:ASP:O	1:B:233:ILE:N	2.34	0.61
1:B:551:HIS:HA	1:B:554:ARG:HB2	1.82	0.61
1:C:18:TYR:CD2	1:C:20:GLU:CB	2.83	0.61
1:C:139:PRO:HG2	1:C:148:ARG:HH12	1.64	0.61
1:C:392:HIS:NE2	1:C:394:CYS:SG	2.38	0.61
1:C:2600:LYS:HA	1:C:2603:LYS:HG2	1.83	0.61
1:A:249:LYS:HB3	1:A:264:LEU:HD23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:29:THR:HG21	1:B:37:CYS:HA	1.83	0.60
1:B:281:LEU:HG	1:B:309:ALA:CB	2.31	0.60
1:C:468:ASN:HA	1:C:471:ARG:HG2	1.82	0.60
1:C:545:ARG:HE	1:C:547:ALA:HA	1.66	0.60
1:D:315:ALA:O	1:D:421:SER:OG	2.16	0.60
1:D:739:LEU:CA	1:D:740:PHE:CA	2.79	0.60
1:A:281:LEU:HG	1:A:309:ALA:CB	2.31	0.60
1:B:524:GLN:HA	1:B:527:PHE:HB3	1.81	0.60
1:C:181:LYS:HB2	1:C:219:LYS:HZ3	1.66	0.60
1:D:303:PHE:CD2	1:D:303:PHE:CB	2.76	0.60
1:D:359:PRO:HB2	1:D:360:GLU:HA	1.83	0.60
1:D:551:HIS:HA	1:D:554:ARG:HB2	1.82	0.60
1:A:196:SER:HB2	1:A:207:ASN:HB3	1.82	0.60
1:B:399:VAL:N	1:B:422:PRO:HG2	2.16	0.60
1:C:281:LEU:HG	1:C:309:ALA:HB1	1.83	0.60
1:C:489:ASN:HB3	1:C:490:SER:OG	2.02	0.60
1:C:2432:LYS:C	1:C:2435:THR:HG23	2.26	0.60
1:D:29:THR:HG21	1:D:37:CYS:HA	1.83	0.60
1:D:2288:ASN:HA	1:D:2291:VAL:HG12	1.84	0.60
1:D:2434:VAL:HG13	1:D:2589:ILE:HD12	1.83	0.60
1:C:2317:MET:HA	1:C:2320:SER:HA	1.81	0.60
1:D:162:TYR:HB3	1:D:183:VAL:O	2.02	0.60
1:D:399:VAL:N	1:D:422:PRO:HG2	2.16	0.60
1:D:400:HIS:HB2	1:D:420:THR:HG21	1.82	0.60
1:A:143:GLU:HG3	1:A:144:LYS:H	1.66	0.60
1:B:10:HIS:HB3	1:B:115:ILE:HD12	1.84	0.60
1:B:391:ARG:HD3	1:B:398:TRP:CE3	2.35	0.60
1:C:281:LEU:HG	1:C:309:ALA:CB	2.31	0.60
1:C:399:VAL:N	1:C:422:PRO:HG2	2.17	0.60
1:D:395:THR:HG23	1:D:397:THR:H	1.67	0.60
1:A:168:LYS:HZ3	1:B:247:GLN:HA	1.67	0.60
1:A:468:ASN:HA	1:A:471:ARG:HG2	1.83	0.60
1:A:507:GLN:NE2	1:A:562:HIS:O	2.34	0.60
1:B:2288:ASN:HA	1:B:2291:VAL:HG12	1.84	0.60
1:C:69:GLN:HE22	1:C:100:LYS:HG2	1.66	0.60
1:C:105:THR:HG23	1:C:108:ARG:HH21	1.66	0.60
1:C:2425:GLU:OE2	1:C:2431:ILE:HG23	2.02	0.60
1:D:20:GLU:CD	1:D:20:GLU:CG	2.75	0.60
1:D:143:GLU:HG3	1:D:144:LYS:H	1.66	0.60
1:D:2431:ILE:HD12	1:D:2431:ILE:N	2.08	0.60
1:D:2441:ILE:O	1:D:2444:THR:OG1	2.11	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:69:GLN:HE22	1:A:100:LYS:HG2	1.66	0.60
1:A:545:ARG:HE	1:A:547:ALA:HA	1.66	0.60
1:A:2604:GLU:HA	1:A:2607:LEU:HB3	1.84	0.60
1:B:20:GLU:CD	1:B:20:GLU:CG	2.75	0.60
1:B:739:LEU:CA	1:B:740:PHE:CA	2.79	0.60
1:C:507:GLN:NE2	1:C:562:HIS:O	2.34	0.60
1:D:196:SER:HB2	1:D:207:ASN:HB3	1.83	0.60
1:A:20:GLU:CD	1:A:20:GLU:CG	2.75	0.60
1:A:281:LEU:HG	1:A:309:ALA:HB1	1.83	0.60
1:B:181:LYS:HB2	1:B:219:LYS:HZ3	1.65	0.60
1:B:395:THR:HG23	1:B:397:THR:H	1.67	0.60
1:C:2358:GLY:HA2	1:C:2361:ASN:ND2	2.16	0.60
1:D:10:HIS:HB3	1:D:115:ILE:HD12	1.84	0.60
1:D:2312:LEU:O	1:D:2315:THR:OG1	2.14	0.60
1:A:399:VAL:N	1:A:422:PRO:HG2	2.17	0.60
1:A:1642:ASP:CA	1:A:1643:ALA:CA	2.80	0.60
1:A:2358:GLY:HA2	1:A:2361:ASN:ND2	2.16	0.60
1:B:18:TYR:CD1	1:B:20:GLU:OE2	2.55	0.60
1:B:117:TYR:CD2	1:B:176:VAL:CG2	2.85	0.60
1:B:162:TYR:HB3	1:B:183:VAL:O	2.01	0.60
1:C:18:TYR:CD1	1:C:20:GLU:OE2	2.54	0.60
1:C:169:LEU:HG	1:D:429:ALA:HB2	1.84	0.60
1:D:1642:ASP:CA	1:D:1643:ALA:CA	2.80	0.60
1:B:143:GLU:HG3	1:B:144:LYS:H	1.66	0.59
1:C:20:GLU:CD	1:C:20:GLU:CG	2.75	0.59
1:D:2604:GLU:HA	1:D:2607:LEU:HB3	1.84	0.59
1:A:10:HIS:HB3	1:A:115:ILE:HD12	1.84	0.59
1:A:20:GLU:HA	1:A:24:ASN:HA	1.84	0.59
1:A:239:VAL:HB	1:A:283:GLU:HA	1.84	0.59
1:A:246:GLU:HG3	1:A:429:ALA:HB3	1.84	0.59
1:B:468:ASN:HA	1:B:471:ARG:HG2	1.83	0.59
1:B:577:GLN:OE1	1:B:577:GLN:N	2.32	0.59
1:C:20:GLU:HA	1:C:24:ASN:HA	1.84	0.59
1:C:162:TYR:HB3	1:C:183:VAL:O	2.02	0.59
1:D:239:VAL:HB	1:D:283:GLU:HA	1.83	0.59
1:B:2425:GLU:OE2	1:B:2431:ILE:HG23	2.03	0.59
1:B:2547:GLY:N	1:C:2544:ARG:HD2	2.17	0.59
1:A:33:VAL:H	1:A:35:ASP:HB2	1.67	0.59
1:C:264:LEU:O	1:C:415:MET:HG3	2.02	0.59
1:C:2312:LEU:O	1:C:2315:THR:OG1	2.15	0.59
1:C:2425:GLU:OE2	1:C:2431:ILE:HG21	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2708:LEU:O	1:C:2712:LEU:HG	2.02	0.59
1:D:468:ASN:HA	1:D:471:ARG:HG2	1.83	0.59
1:D:577:GLN:OE1	1:D:577:GLN:N	2.32	0.59
1:A:359:PRO:HB2	1:A:360:GLU:HA	1.83	0.59
1:B:69:GLN:HE22	1:B:100:LYS:HG2	1.66	0.59
1:B:185:ASN:HB3	1:B:191:GLN:HG3	1.84	0.59
1:B:514:ASN:C	1:B:518:GLN:HE22	2.10	0.59
1:B:2358:GLY:HA2	1:B:2361:ASN:ND2	2.17	0.59
1:B:2432:LYS:C	1:B:2435:THR:HG23	2.27	0.59
1:C:143:GLU:H	1:C:146:ALA:HB2	1.67	0.59
1:C:246:GLU:HG3	1:C:429:ALA:HB3	1.84	0.59
1:C:577:GLN:OE1	1:C:577:GLN:N	2.33	0.59
1:A:117:TYR:CD2	1:A:176:VAL:CG2	2.86	0.59
1:B:304:ARG:NH2	1:B:363:ASP:O	2.36	0.59
1:B:2144:ASP:CA	1:B:2145:GLY:CA	2.81	0.59
1:D:134:VAL:HG23	1:D:149:VAL:HA	1.83	0.59
1:D:2144:ASP:CA	1:D:2145:GLY:CA	2.81	0.59
1:B:134:VAL:HG23	1:B:149:VAL:HA	1.83	0.59
1:B:169:LEU:HG	1:C:429:ALA:HB2	1.83	0.59
1:B:2434:VAL:CG1	1:B:2589:ILE:HD12	2.33	0.59
1:B:2509:ALA:CA	1:B:2510:PRO:CD	2.81	0.59
1:B:2604:GLU:HA	1:B:2607:LEU:HB3	1.84	0.59
1:C:143:GLU:HG3	1:C:144:LYS:H	1.66	0.59
1:C:2144:ASP:CA	1:C:2145:GLY:CA	2.80	0.59
1:D:18:TYR:CD1	1:D:20:GLU:OE2	2.55	0.59
1:D:117:TYR:CD2	1:D:176:VAL:CG2	2.86	0.59
1:D:286:VAL:HG22	1:D:295:GLY:H	1.67	0.59
1:A:143:GLU:H	1:A:146:ALA:HB2	1.67	0.59
1:B:264:LEU:O	1:B:415:MET:HG3	2.03	0.59
1:B:359:PRO:HB2	1:B:360:GLU:HA	1.84	0.59
1:B:1642:ASP:CA	1:B:1643:ALA:CA	2.80	0.59
1:C:315:ALA:O	1:C:421:SER:OG	2.20	0.59
1:D:238:ASP:HA	1:D:283:GLU:OE2	2.03	0.59
1:D:264:LEU:O	1:D:415:MET:HG3	2.03	0.59
1:D:270:GLN:HG3	1:D:271:SER:H	1.67	0.59
1:D:489:ASN:HB3	1:D:490:SER:OG	2.03	0.59
1:A:162:TYR:HB3	1:A:183:VAL:O	2.02	0.59
1:A:392:HIS:CD2	1:A:395:THR:HG22	2.38	0.59
1:A:2527:THR:OG1	1:A:2528:CYS:HA	2.03	0.59
1:B:489:ASN:HB3	1:B:490:SER:OG	2.03	0.59
1:C:304:ARG:NH2	1:C:363:ASP:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1639:ASP:CA	1:C:1640:ALA:CA	2.81	0.59
1:D:33:VAL:H	1:D:35:ASP:HB2	1.67	0.59
1:D:71:GLN:HA	1:D:74:LYS:HZ3	1.68	0.59
1:A:169:LEU:HG	1:B:429:ALA:HB2	1.83	0.59
1:A:2144:ASP:CA	1:A:2145:GLY:CA	2.80	0.59
1:A:2509:ALA:CA	1:A:2510:PRO:CD	2.81	0.59
1:A:2544:ARG:HD2	1:D:2547:GLY:N	2.17	0.59
1:B:2708:LEU:O	1:B:2712:LEU:HG	2.03	0.59
1:C:71:GLN:HA	1:C:74:LYS:HZ3	1.68	0.59
1:D:417:LYS:HB2	1:D:418:ILE:HD12	1.85	0.59
1:D:1883:GLY:CA	1:D:1884:ASN:CA	2.81	0.59
1:A:264:LEU:O	1:A:415:MET:HG3	2.02	0.58
1:A:304:ARG:NH2	1:A:363:ASP:O	2.36	0.58
1:C:1225:ALA:CA	1:C:1226:GLU:CA	2.81	0.58
1:C:2604:GLU:HA	1:C:2607:LEU:HB3	1.84	0.58
1:D:304:ARG:NH2	1:D:363:ASP:O	2.36	0.58
1:D:513:GLN:OE1	1:D:513:GLN:N	2.36	0.58
1:D:514:ASN:C	1:D:518:GLN:HE22	2.11	0.58
1:D:2327:LEU:HB3	1:D:2328:PRO:HD3	1.85	0.58
1:D:2509:ALA:CA	1:D:2510:PRO:CD	2.81	0.58
1:A:489:ASN:HB3	1:A:490:SER:OG	2.02	0.58
1:A:1225:ALA:CA	1:A:1226:GLU:CA	2.81	0.58
1:A:1371:LEU:CA	1:A:1372:PHE:CA	2.81	0.58
1:B:238:ASP:HA	1:B:283:GLU:OE2	2.03	0.58
1:C:247:GLN:O	1:C:249:LYS:HG2	2.03	0.58
1:C:1883:GLY:CA	1:C:1884:ASN:CA	2.81	0.58
1:C:2509:ALA:CA	1:C:2510:PRO:CD	2.81	0.58
1:D:181:LYS:HB2	1:D:219:LYS:HZ3	1.68	0.58
1:D:2358:GLY:HA2	1:D:2361:ASN:ND2	2.17	0.58
1:D:2708:LEU:O	1:D:2712:LEU:HG	2.03	0.58
1:B:1883:GLY:CA	1:B:1884:ASN:CA	2.81	0.58
1:C:117:TYR:CD2	1:C:176:VAL:CG2	2.86	0.58
1:C:239:VAL:HB	1:C:283:GLU:HA	1.84	0.58
1:C:400:HIS:HB2	1:C:420:THR:HG21	1.85	0.58
1:D:392:HIS:CD2	1:D:395:THR:HG22	2.38	0.58
1:A:514:ASN:C	1:A:518:GLN:HE22	2.11	0.58
1:A:2434:VAL:HG22	1:A:2593:PHE:CE1	2.38	0.58
1:A:2555:LYS:HZ2	1:A:2562:LEU:HD21	1.68	0.58
1:B:33:VAL:H	1:B:35:ASP:HB2	1.67	0.58
1:B:2554:ARG:NH2	1:C:2522:GLN:HB2	2.18	0.58
1:C:1371:LEU:CA	1:C:1372:PHE:CA	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:238:ASP:HA	1:A:283:GLU:OE2	2.04	0.58
1:A:376:ARG:NH2	1:D:178:ILE:O	2.37	0.58
1:A:2425:GLU:OE2	1:A:2431:ILE:HG23	2.02	0.58
1:A:2425:GLU:OE2	1:A:2431:ILE:HG21	2.03	0.58
1:B:71:GLN:HA	1:B:74:LYS:HZ3	1.67	0.58
1:B:1225:ALA:CA	1:B:1226:GLU:CA	2.82	0.58
1:C:2434:VAL:HG22	1:C:2593:PHE:CE1	2.39	0.58
1:C:2561:PRO:HA	1:C:2564:ALA:HB3	1.85	0.58
1:D:256:HIS:N	1:D:259:LYS:O	2.31	0.58
1:A:256:HIS:N	1:A:259:LYS:O	2.32	0.58
1:A:2708:LEU:O	1:A:2712:LEU:HG	2.02	0.58
1:C:2527:THR:OG1	1:C:2528:CYS:HA	2.03	0.58
1:D:549:PHE:HA	1:D:552:ILE:HD12	1.85	0.58
1:D:2404:MET:CA	1:D:2405:GLY:CA	2.82	0.58
1:A:2327:LEU:HB3	1:A:2328:PRO:HD3	1.86	0.58
1:A:2561:PRO:HA	1:A:2564:ALA:HB3	1.85	0.58
1:B:513:GLN:OE1	1:B:513:GLN:N	2.37	0.58
1:B:2404:MET:CA	1:B:2405:GLY:CA	2.82	0.58
1:C:33:VAL:H	1:C:35:ASP:HB2	1.67	0.58
1:C:54:ARG:HH21	1:C:282:TRP:HE1	1.52	0.58
1:C:152:ASP:OD1	1:C:153:GLU:N	2.37	0.58
1:D:247:GLN:O	1:D:249:LYS:HG2	2.03	0.58
1:D:1225:ALA:CA	1:D:1226:GLU:CA	2.82	0.58
1:A:506:ARG:O	1:A:509:LEU:HG	2.03	0.58
1:A:2404:MET:CA	1:A:2405:GLY:CA	2.82	0.58
1:B:131:TYR:N	1:B:152:ASP:O	2.37	0.58
1:B:270:GLN:HG3	1:B:271:SER:H	1.67	0.58
1:B:286:VAL:HG22	1:B:295:GLY:H	1.67	0.58
1:B:549:PHE:HA	1:B:552:ILE:HD12	1.85	0.58
1:C:238:ASP:HA	1:C:283:GLU:OE2	2.04	0.58
1:C:286:VAL:HG22	1:C:295:GLY:H	1.68	0.58
1:D:185:ASN:HB3	1:D:191:GLN:HG3	1.84	0.58
1:D:1371:LEU:CA	1:D:1372:PHE:CA	2.82	0.58
1:A:1883:GLY:CA	1:A:1884:ASN:CA	2.81	0.58
1:B:54:ARG:HH21	1:B:282:TRP:HE1	1.52	0.58
1:B:194:HIS:H	1:B:210:ASN:N	2.02	0.58
1:B:2327:LEU:HB3	1:B:2328:PRO:HD3	1.85	0.58
1:C:10:HIS:NE2	1:C:176:VAL:O	2.36	0.58
1:C:513:GLN:OE1	1:C:513:GLN:N	2.37	0.58
1:A:72:PHE:HD1	1:A:92:LEU:HD23	1.68	0.58
1:A:286:VAL:HG22	1:A:295:GLY:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2432:LYS:HA	1:A:2435:THR:HG23	1.86	0.58
1:B:27:ILE:HG13	1:B:218:TRP:CZ3	2.39	0.58
1:B:417:LYS:HB2	1:B:418:ILE:HD12	1.85	0.58
1:C:69:GLN:HG3	1:C:99:GLU:CD	2.29	0.58
1:C:514:ASN:C	1:C:518:GLN:HE22	2.11	0.58
1:C:2404:MET:CA	1:C:2405:GLY:CA	2.82	0.58
1:A:372:PRO:HB2	1:A:374:THR:HG23	1.86	0.57
1:A:2522:GLN:HB2	1:D:2554:ARG:NH2	2.19	0.57
1:B:178:ILE:O	1:C:376:ARG:NH2	2.37	0.57
1:B:2555:LYS:HZ2	1:B:2562:LEU:HD21	1.67	0.57
1:C:10:HIS:HB3	1:C:115:ILE:HD12	1.84	0.57
1:C:1319:GLU:CA	1:C:1320:GLY:CA	2.82	0.57
1:D:442:ASP:OD2	1:D:504:ARG:NH2	2.37	0.57
1:A:69:GLN:HG3	1:A:99:GLU:CD	2.29	0.57
1:A:373:THR:N	1:A:388:VAL:HG21	2.09	0.57
1:A:2552:VAL:HA	1:A:2553:LEU:CB	2.32	0.57
1:A:2554:ARG:NH2	1:B:2522:GLN:HB2	2.19	0.57
1:B:143:GLU:H	1:B:146:ALA:HB2	1.68	0.57
1:C:506:ARG:O	1:C:509:LEU:HG	2.03	0.57
1:C:2295:TYR:CD1	1:C:2296:PRO:HD2	2.40	0.57
1:D:143:GLU:H	1:D:146:ALA:HB2	1.69	0.57
1:D:161:PHE:CE1	1:D:184:LEU:HD12	2.39	0.57
1:D:2527:THR:OG1	1:D:2528:CYS:HA	2.04	0.57
1:A:247:GLN:O	1:A:249:LYS:HG2	2.03	0.57
1:B:392:HIS:CD2	1:B:395:THR:HG22	2.38	0.57
1:C:2554:ARG:NH2	1:D:2522:GLN:HB2	2.19	0.57
1:D:69:GLN:HG3	1:D:99:GLU:CD	2.30	0.57
1:D:2310:SER:HB3	1:D:2312:LEU:HG	1.87	0.57
1:A:2462:PHE:H	1:A:2566:ARG:NH2	2.02	0.57
1:B:247:GLN:O	1:B:249:LYS:HG2	2.03	0.57
1:B:506:ARG:O	1:B:509:LEU:HG	2.03	0.57
1:C:27:ILE:HG13	1:C:218:TRP:CZ3	2.40	0.57
1:C:303:PHE:CD1	1:C:303:PHE:CB	2.77	0.57
1:C:439:GLU:OE1	1:C:439:GLU:N	2.38	0.57
1:C:1009:SER:CA	1:C:1010:GLU:CA	2.82	0.57
1:A:54:ARG:HH21	1:A:282:TRP:HE1	1.52	0.57
1:A:720:LYS:CA	1:A:721:GLU:CA	2.83	0.57
1:B:299:TRP:CD1	1:B:372:PRO:HG3	2.40	0.57
1:B:1371:LEU:CA	1:B:1372:PHE:CA	2.81	0.57
1:C:392:HIS:CD2	1:C:395:THR:HG22	2.38	0.57
1:D:1319:GLU:CA	1:D:1320:GLY:CA	2.83	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:THR:HG21	1:A:88:LEU:HD13	1.87	0.57
1:A:152:ASP:OD1	1:A:153:GLU:N	2.37	0.57
1:A:373:THR:HG21	1:D:170:ARG:NH1	2.20	0.57
1:A:1009:SER:CA	1:A:1010:GLU:CA	2.82	0.57
1:B:69:GLN:HG3	1:B:99:GLU:CD	2.29	0.57
1:B:2295:TYR:CD1	1:B:2296:PRO:HD2	2.40	0.57
1:D:299:TRP:CD1	1:D:372:PRO:HG3	2.40	0.57
1:D:720:LYS:CA	1:D:721:GLU:CA	2.83	0.57
1:A:513:GLN:OE1	1:A:513:GLN:N	2.37	0.57
1:A:2295:TYR:CD1	1:A:2296:PRO:HD2	2.39	0.57
1:C:72:PHE:HD1	1:C:92:LEU:HD23	1.68	0.57
1:C:134:VAL:HG23	1:C:149:VAL:HA	1.87	0.57
1:C:2455:PHE:HB2	1:C:2573:PHE:CE1	2.40	0.57
1:C:2552:VAL:HA	1:C:2553:LEU:CB	2.32	0.57
1:D:54:ARG:HH21	1:D:282:TRP:HE1	1.52	0.57
1:D:235:LYS:HB3	1:D:238:ASP:OD1	2.05	0.57
1:D:1009:SER:CA	1:D:1010:GLU:CA	2.82	0.57
1:D:2428:LEU:CG	1:D:2429:ASN:H	2.11	0.57
1:A:442:ASP:OD2	1:A:504:ARG:NH2	2.38	0.57
1:C:44:GLY:HA3	1:C:50:PRO:HD3	1.86	0.57
1:C:161:PHE:CE1	1:C:184:LEU:HD12	2.40	0.57
1:C:2327:LEU:HB3	1:C:2328:PRO:HD3	1.86	0.57
1:D:44:GLY:HA3	1:D:50:PRO:HD3	1.87	0.57
1:D:506:ARG:O	1:D:509:LEU:HG	2.04	0.57
1:A:1319:GLU:CA	1:A:1320:GLY:CA	2.82	0.57
1:B:246:GLU:HG3	1:B:429:ALA:HB3	1.87	0.57
1:B:387:TYR:CD1	1:B:431:ALA:HB3	2.40	0.57
1:B:772:ASN:CA	1:B:773:LEU:CA	2.83	0.57
1:C:235:LYS:HB3	1:C:238:ASP:OD1	2.05	0.57
1:C:395:THR:HG23	1:C:397:THR:H	1.70	0.57
1:C:720:LYS:CA	1:C:721:GLU:CA	2.83	0.57
1:D:2429:ASN:N	1:D:2431:ILE:HD13	2.19	0.57
1:A:53:PHE:HA	1:A:56:CYS:HB3	1.87	0.57
1:B:161:PHE:CE1	1:B:184:LEU:HD12	2.39	0.57
1:C:299:TRP:CD1	1:C:372:PRO:HG3	2.40	0.57
1:D:152:ASP:OD1	1:D:153:GLU:N	2.37	0.57
1:D:772:ASN:CA	1:D:773:LEU:CA	2.83	0.57
1:D:2514:LEU:HA	1:D:2517:VAL:HG12	1.87	0.57
1:A:387:TYR:CD1	1:A:431:ALA:HB3	2.40	0.56
1:A:2433:SER:OG	1:A:2434:VAL:N	2.38	0.56
1:B:2701:LYS:HB2	1:C:2700:GLU:OE2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:130:LYS:NZ	1:D:153:GLU:OE1	2.34	0.56
1:D:2455:PHE:HB2	1:D:2573:PHE:CE1	2.40	0.56
1:A:10:HIS:NE2	1:A:176:VAL:O	2.36	0.56
1:A:134:VAL:HG23	1:A:149:VAL:HA	1.87	0.56
1:B:235:LYS:HB3	1:B:238:ASP:OD1	2.05	0.56
1:B:442:ASP:OD2	1:B:504:ARG:NH2	2.37	0.56
1:B:1009:SER:CA	1:B:1010:GLU:CA	2.82	0.56
1:B:2310:SER:HB3	1:B:2312:LEU:HG	1.86	0.56
1:B:2527:THR:OG1	1:B:2528:CYS:HA	2.04	0.56
1:C:84:THR:HG21	1:C:88:LEU:HD13	1.87	0.56
1:C:193:LEU:O	1:C:214:CYS:HB3	2.06	0.56
1:A:44:GLY:HA3	1:A:50:PRO:HD3	1.86	0.56
1:A:772:ASN:CA	1:A:773:LEU:CA	2.84	0.56
1:A:2701:LYS:HB2	1:B:2700:GLU:OE2	2.05	0.56
1:B:72:PHE:HD1	1:B:92:LEU:HD23	1.71	0.56
1:B:392:HIS:NE2	1:B:394:CYS:SG	2.39	0.56
1:B:720:LYS:CA	1:B:721:GLU:CA	2.83	0.56
1:C:303:PHE:CD2	1:C:303:PHE:CB	2.76	0.56
1:D:2295:TYR:CD1	1:D:2296:PRO:HD2	2.40	0.56
1:D:2563:PHE:C	1:D:2567:VAL:HG12	2.30	0.56
1:B:308:LEU:N	1:B:309:ALA:HB2	2.20	0.56
1:B:1319:GLU:CA	1:B:1320:GLY:CA	2.83	0.56
1:C:193:LEU:N	1:C:212:VAL:O	2.39	0.56
1:C:308:LEU:N	1:C:309:ALA:HB2	2.21	0.56
1:C:2514:LEU:HA	1:C:2517:VAL:HG12	1.88	0.56
1:D:1462:CYS:CA	1:D:1463:ASN:CA	2.83	0.56
1:A:193:LEU:O	1:A:214:CYS:HB3	2.06	0.56
1:A:308:LEU:N	1:A:309:ALA:HB2	2.21	0.56
1:B:168:LYS:NZ	1:C:247:GLN:HA	2.21	0.56
1:B:170:ARG:NH1	1:C:373:THR:HG21	2.20	0.56
1:B:2312:LEU:O	1:B:2315:THR:OG1	2.14	0.56
1:C:549:PHE:HA	1:C:552:ILE:HD12	1.87	0.56
1:C:1462:CYS:CA	1:C:1463:ASN:CA	2.84	0.56
1:D:131:TYR:N	1:D:152:ASP:O	2.37	0.56
1:D:194:HIS:H	1:D:210:ASN:N	2.02	0.56
1:D:387:TYR:CD1	1:D:431:ALA:HB3	2.40	0.56
1:D:477:LEU:O	1:D:480:LEU:HB2	2.06	0.56
1:A:2700:GLU:OE2	1:D:2701:LYS:HB2	2.06	0.56
1:B:44:GLY:HA3	1:B:50:PRO:HD3	1.87	0.56
1:B:2428:LEU:CG	1:B:2429:ASN:OD1	2.35	0.56
1:C:477:LEU:O	1:C:480:LEU:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2701:LYS:HB2	1:D:2700:GLU:OE2	2.05	0.56
1:A:299:TRP:CD1	1:A:372:PRO:HG3	2.41	0.56
1:A:2333:ILE:HG13	1:A:2334:ARG:N	2.21	0.56
1:B:282:TRP:H	1:B:308:LEU:H	1.54	0.56
1:C:2282:ASN:O	1:C:2285:VAL:HG22	2.06	0.56
1:A:161:PHE:CE1	1:A:184:LEU:HD12	2.40	0.56
1:A:235:LYS:HB3	1:A:238:ASP:OD1	2.05	0.56
1:A:311:GLY:HA2	1:A:359:PRO:HD3	1.87	0.56
1:A:2735:LEU:CA	1:A:2736:LEU:CA	2.84	0.56
1:B:152:ASP:OD1	1:B:153:GLU:N	2.37	0.56
1:B:2552:VAL:HA	1:B:2553:LEU:CB	2.32	0.56
1:B:2735:LEU:CA	1:B:2736:LEU:CA	2.84	0.56
1:C:256:HIS:N	1:C:259:LYS:O	2.32	0.56
1:C:311:GLY:HA2	1:C:359:PRO:HD3	1.87	0.56
1:C:2432:LYS:HA	1:C:2435:THR:HG23	1.86	0.56
1:D:27:ILE:HG13	1:D:218:TRP:CZ3	2.39	0.56
1:D:2283:LEU:O	1:D:2286:LEU:HB3	2.06	0.56
1:A:2312:LEU:O	1:A:2315:THR:OG1	2.14	0.56
1:B:518:GLN:H	1:B:518:GLN:CD	2.14	0.56
1:B:1462:CYS:CA	1:B:1463:ASN:CA	2.83	0.56
1:C:29:THR:OG1	1:C:38:VAL:N	2.32	0.56
1:C:194:HIS:H	1:C:210:ASN:N	2.04	0.56
1:C:372:PRO:HB2	1:C:374:THR:HG23	1.87	0.56
1:C:442:ASP:OD2	1:C:504:ARG:NH2	2.38	0.56
1:D:53:PHE:HA	1:D:56:CYS:HB3	1.88	0.56
1:D:72:PHE:HD1	1:D:92:LEU:HD23	1.71	0.56
1:D:103:ASN:HA	1:D:106:GLU:OE2	2.05	0.56
1:D:372:PRO:HB2	1:D:374:THR:HG23	1.88	0.56
1:A:549:PHE:HA	1:A:552:ILE:HD12	1.87	0.56
1:A:1462:CYS:CA	1:A:1463:ASN:CA	2.84	0.56
1:A:2563:PHE:C	1:A:2567:VAL:HG12	2.31	0.56
1:B:103:ASN:HA	1:B:106:GLU:OE2	2.06	0.56
1:B:477:LEU:O	1:B:480:LEU:HB2	2.06	0.56
1:C:131:TYR:N	1:C:152:ASP:O	2.37	0.56
1:C:387:TYR:CD1	1:C:431:ALA:HB3	2.40	0.56
1:C:2455:PHE:HB2	1:C:2573:PHE:CZ	2.41	0.56
1:D:242:LEU:HD22	1:D:307:HIS:HB3	1.88	0.56
1:A:27:ILE:HG13	1:A:218:TRP:CZ3	2.39	0.55
1:A:306:LYS:HA	1:A:313:TYR:HB3	1.87	0.55
1:A:315:ALA:O	1:A:421:SER:OG	2.21	0.55
1:A:2329:LYS:O	1:A:2333:ILE:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2483:THR:CA	1:A:2484:GLY:CA	2.84	0.55
1:B:2326:ALA:HA	1:B:2329:LYS:CE	2.37	0.55
1:B:2561:PRO:HA	1:B:2564:ALA:HB3	1.86	0.55
1:C:306:LYS:HA	1:C:313:TYR:HB3	1.87	0.55
1:C:391:ARG:HD3	1:C:398:TRP:HE3	1.70	0.55
1:D:282:TRP:H	1:D:308:LEU:H	1.54	0.55
1:D:525:ALA:HB3	1:D:526:PRO:HD3	1.89	0.55
1:A:193:LEU:N	1:A:212:VAL:O	2.39	0.55
1:A:2282:ASN:O	1:A:2285:VAL:HG22	2.06	0.55
1:B:246:GLU:H	1:B:428:GLU:CD	2.14	0.55
1:C:170:ARG:NH1	1:D:373:THR:HG21	2.22	0.55
1:D:246:GLU:HG3	1:D:429:ALA:HB3	1.87	0.55
1:D:311:GLY:HA2	1:D:359:PRO:HD3	1.87	0.55
1:D:484:VAL:HG13	1:D:562:HIS:CE1	2.41	0.55
1:D:2329:LYS:HG2	1:D:2330:PRO:HD3	1.88	0.55
1:A:439:GLU:N	1:A:439:GLU:OE1	2.38	0.55
1:A:540:GLU:O	1:A:544:GLN:HG2	2.06	0.55
1:A:2455:PHE:HB2	1:A:2573:PHE:CZ	2.41	0.55
1:B:311:GLY:HA2	1:B:359:PRO:HD3	1.87	0.55
1:B:2283:LEU:O	1:B:2286:LEU:HB3	2.06	0.55
1:C:2563:PHE:C	1:C:2567:VAL:HG12	2.31	0.55
1:D:308:LEU:N	1:D:309:ALA:HB2	2.20	0.55
1:D:418:ILE:HG22	1:D:419:GLY:N	2.21	0.55
1:D:1057:GLY:CA	1:D:1058:ARG:CA	2.84	0.55
1:A:395:THR:HG23	1:A:397:THR:H	1.69	0.55
1:A:504:ARG:HG2	1:A:506:ARG:H	1.71	0.55
1:A:1057:GLY:CA	1:A:1058:ARG:CA	2.84	0.55
1:B:242:LEU:HD22	1:B:307:HIS:HB3	1.89	0.55
1:C:6:SER:O	1:C:7:SER:OG	2.23	0.55
1:C:6:SER:O	1:D:376:ARG:HG3	2.07	0.55
1:C:484:VAL:HG13	1:C:562:HIS:CE1	2.41	0.55
1:C:2178:GLY:CA	1:C:2179:GLN:CA	2.85	0.55
1:C:2483:THR:CA	1:C:2484:GLY:CA	2.84	0.55
1:C:2735:LEU:CA	1:C:2736:LEU:CA	2.84	0.55
1:D:2326:ALA:HA	1:D:2329:LYS:CE	2.36	0.55
1:D:2431:ILE:O	1:D:2435:THR:HG22	2.05	0.55
1:A:32:LEU:N	1:A:33:VAL:HA	2.22	0.55
1:A:388:VAL:O	1:A:429:ALA:HA	2.07	0.55
1:A:400:HIS:HB2	1:A:420:THR:HG21	1.86	0.55
1:B:388:VAL:O	1:B:429:ALA:HA	2.07	0.55
1:B:418:ILE:HG22	1:B:419:GLY:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2514:LEU:HA	1:B:2517:VAL:HG12	1.87	0.55
1:C:53:PHE:HA	1:C:56:CYS:HB3	1.87	0.55
1:C:103:ASN:HA	1:C:106:GLU:OE2	2.06	0.55
1:C:246:GLU:H	1:C:428:GLU:CD	2.14	0.55
1:C:1057:GLY:CA	1:C:1058:ARG:CA	2.84	0.55
1:C:2283:LEU:O	1:C:2286:LEU:HB3	2.07	0.55
1:D:2552:VAL:HA	1:D:2553:LEU:CB	2.32	0.55
1:A:124:LEU:HD12	1:A:131:TYR:HB2	1.87	0.55
1:B:10:HIS:NE2	1:B:176:VAL:O	2.39	0.55
1:B:2178:GLY:CA	1:B:2179:GLN:CA	2.85	0.55
1:C:124:LEU:HD12	1:C:131:TYR:HB2	1.87	0.55
1:C:518:GLN:H	1:C:518:GLN:CD	2.14	0.55
1:D:193:LEU:O	1:D:214:CYS:HB3	2.06	0.55
1:D:2274:SER:H	1:D:2343:ARG:NH1	2.05	0.55
1:D:2462:PHE:H	1:D:2566:ARG:NH2	2.03	0.55
1:D:2561:PRO:HA	1:D:2564:ALA:HB3	1.88	0.55
1:A:26:PHE:HB3	1:A:56:CYS:SG	2.47	0.55
1:A:2455:PHE:HB2	1:A:2573:PHE:CE1	2.40	0.55
1:A:2514:LEU:HA	1:A:2517:VAL:HG12	1.88	0.55
1:B:209:VAL:HG11	1:B:218:TRP:HZ2	1.72	0.55
1:B:372:PRO:HB2	1:B:374:THR:HG23	1.87	0.55
1:B:2455:PHE:HB2	1:B:2573:PHE:CE1	2.40	0.55
1:B:2462:PHE:H	1:B:2566:ARG:NH2	2.03	0.55
1:C:168:LYS:NZ	1:D:247:GLN:HA	2.22	0.55
1:C:388:VAL:O	1:C:429:ALA:HA	2.07	0.55
1:C:772:ASN:CA	1:C:773:LEU:CA	2.84	0.55
1:C:2333:ILE:HG13	1:C:2334:ARG:N	2.21	0.55
1:D:2735:LEU:CA	1:D:2736:LEU:CA	2.84	0.55
1:A:2310:SER:HB3	1:A:2312:LEU:HG	1.89	0.55
1:B:244:HIS:CD2	1:B:430:PHE:HB3	2.42	0.55
1:B:439:GLU:OE1	1:B:439:GLU:N	2.39	0.55
1:B:2483:THR:CA	1:B:2484:GLY:CA	2.85	0.55
1:C:389:ARG:HD2	1:C:398:TRP:HE1	1.72	0.55
1:C:417:LYS:HB2	1:C:418:ILE:HD12	1.89	0.55
1:C:499:PHE:O	1:C:502:PRO:HD2	2.07	0.55
1:C:525:ALA:HB3	1:C:526:PRO:HD3	1.89	0.55
1:D:299:TRP:CG	1:D:372:PRO:HG3	2.42	0.55
1:D:439:GLU:N	1:D:439:GLU:OE1	2.39	0.55
1:A:6:SER:O	1:B:376:ARG:HG3	2.06	0.55
1:A:246:GLU:H	1:A:428:GLU:CD	2.14	0.55
1:A:484:VAL:HG13	1:A:562:HIS:CE1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:PHE:O	1:A:502:PRO:HD2	2.07	0.55
1:B:2333:ILE:HG13	1:B:2334:ARG:N	2.21	0.55
1:B:2433:SER:OG	1:B:2434:VAL:N	2.38	0.55
1:B:2563:PHE:C	1:B:2567:VAL:HG12	2.32	0.55
1:C:540:GLU:O	1:C:544:GLN:HG2	2.07	0.55
1:C:2462:PHE:H	1:C:2566:ARG:NH2	2.02	0.55
1:D:388:VAL:O	1:D:429:ALA:HA	2.07	0.55
1:D:2483:THR:CA	1:D:2484:GLY:CA	2.85	0.55
1:A:194:HIS:H	1:A:210:ASN:N	2.04	0.55
1:A:477:LEU:O	1:A:480:LEU:HB2	2.06	0.55
1:A:2274:SER:H	1:A:2343:ARG:NH1	2.05	0.55
1:B:53:PHE:HA	1:B:56:CYS:HB3	1.88	0.55
1:B:193:LEU:O	1:B:214:CYS:HB3	2.06	0.55
1:B:254:ASP:OD1	1:B:255:GLU:N	2.40	0.55
1:B:299:TRP:CG	1:B:372:PRO:HG3	2.41	0.55
1:B:484:VAL:HG13	1:B:562:HIS:CE1	2.41	0.55
1:B:162:TYR:H	1:B:185:ASN:H	1.56	0.54
1:B:298:TYR:O	1:B:301:SER:OG	2.15	0.54
1:B:2432:LYS:HA	1:B:2435:THR:HG23	1.88	0.54
1:C:2362:VAL:O	1:C:2366:ILE:HG12	2.07	0.54
1:C:2433:SER:OG	1:C:2434:VAL:N	2.38	0.54
1:D:192:PRO:HG2	1:D:213:ASN:HA	1.89	0.54
1:D:504:ARG:HG2	1:D:506:ARG:H	1.72	0.54
1:D:2178:GLY:CA	1:D:2179:GLN:CA	2.85	0.54
1:A:525:ALA:HB3	1:A:526:PRO:HD3	1.90	0.54
1:A:2178:GLY:CA	1:A:2179:GLN:CA	2.85	0.54
1:B:373:THR:N	1:B:388:VAL:HG21	2.11	0.54
1:B:499:PHE:O	1:B:502:PRO:HD2	2.08	0.54
1:B:504:ARG:HG2	1:B:506:ARG:H	1.73	0.54
1:B:1057:GLY:CA	1:B:1058:ARG:CA	2.84	0.54
1:B:2324:VAL:C	1:B:2326:ALA:H	2.16	0.54
1:B:2585:ILE:O	1:B:2589:ILE:HG12	2.07	0.54
1:C:254:ASP:OD1	1:C:255:GLU:N	2.40	0.54
1:D:244:HIS:CD2	1:D:430:PHE:HB3	2.42	0.54
1:A:170:ARG:NH1	1:B:373:THR:HG21	2.21	0.54
1:C:2310:SER:HB3	1:C:2312:LEU:HG	1.89	0.54
1:D:540:GLU:O	1:D:544:GLN:HG2	2.08	0.54
1:D:2585:ILE:O	1:D:2589:ILE:HG12	2.07	0.54
1:A:192:PRO:HB2	1:A:212:VAL:O	2.08	0.54
1:A:247:GLN:HA	1:D:168:LYS:NZ	2.21	0.54
1:D:246:GLU:H	1:D:428:GLU:CD	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:254:ASP:OD1	1:D:255:GLU:N	2.41	0.54
1:D:2282:ASN:O	1:D:2285:VAL:HG22	2.06	0.54
1:A:417:LYS:HB2	1:A:418:ILE:HD12	1.90	0.54
1:B:418:ILE:HG22	1:B:419:GLY:H	1.72	0.54
1:B:2274:SER:H	1:B:2343:ARG:NH1	2.05	0.54
1:C:33:VAL:HG23	1:C:35:ASP:HB2	1.90	0.54
1:C:143:GLU:HG2	1:C:194:HIS:CD2	2.43	0.54
1:C:261:HIS:ND1	1:C:355:LEU:HD11	2.23	0.54
1:C:504:ARG:HG2	1:C:506:ARG:H	1.71	0.54
1:D:162:TYR:H	1:D:185:ASN:H	1.56	0.54
1:D:2419:ASP:O	1:D:2422:TYR:HB3	2.08	0.54
1:D:2455:PHE:HB2	1:D:2573:PHE:CZ	2.41	0.54
1:A:103:ASN:HA	1:A:106:GLU:OE2	2.06	0.54
1:A:261:HIS:ND1	1:A:355:LEU:HD11	2.23	0.54
1:A:2362:VAL:O	1:A:2366:ILE:HG12	2.07	0.54
1:A:2415:LEU:HA	1:A:2418:PHE:CZ	2.43	0.54
1:B:6:SER:O	1:B:7:SER:OG	2.24	0.54
1:B:2282:ASN:O	1:B:2285:VAL:HG22	2.06	0.54
1:B:2455:PHE:HB2	1:B:2573:PHE:CZ	2.42	0.54
1:C:120:VAL:HG13	1:C:161:PHE:H	1.73	0.54
1:C:192:PRO:HB2	1:C:212:VAL:O	2.08	0.54
1:D:192:PRO:HB2	1:D:212:VAL:O	2.08	0.54
1:D:518:GLN:CD	1:D:518:GLN:H	2.14	0.54
1:A:389:ARG:HD2	1:A:398:TRP:HE1	1.73	0.54
1:A:2283:LEU:O	1:A:2286:LEU:HB3	2.07	0.54
1:B:2329:LYS:HG2	1:B:2330:PRO:HD3	1.88	0.54
1:B:2555:LYS:NZ	1:B:2562:LEU:HD11	2.22	0.54
1:C:2337:ILE:O	1:C:2341:ILE:HG22	2.08	0.54
1:D:32:LEU:N	1:D:33:VAL:HA	2.22	0.54
1:D:199:GLN:HB2	1:D:206:CYS:HB3	1.90	0.54
1:D:2333:ILE:HG13	1:D:2334:ARG:N	2.21	0.54
1:A:168:LYS:NZ	1:B:247:GLN:HA	2.22	0.54
1:A:391:ARG:HD3	1:A:398:TRP:HE3	1.70	0.54
1:A:2337:ILE:O	1:A:2341:ILE:HG22	2.08	0.54
1:B:143:GLU:HG2	1:B:194:HIS:CD2	2.43	0.54
1:B:192:PRO:HG2	1:B:213:ASN:HA	1.89	0.54
1:B:525:ALA:HB3	1:B:526:PRO:HD3	1.89	0.54
1:B:2362:VAL:O	1:B:2366:ILE:HG12	2.08	0.54
1:C:2274:SER:H	1:C:2343:ARG:NH1	2.05	0.54
1:D:499:PHE:O	1:D:502:PRO:HD2	2.07	0.54
1:D:2721:ASP:OD1	1:D:2722:GLN:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:VAL:HG13	1:A:161:PHE:H	1.73	0.54
1:A:2527:THR:HB	1:A:2533:MET:HE1	1.90	0.54
1:A:2540:SER:O	1:A:2544:ARG:HG2	2.07	0.54
1:B:32:LEU:N	1:B:33:VAL:HA	2.22	0.54
1:B:33:VAL:HG23	1:B:35:ASP:HB2	1.90	0.54
1:B:117:TYR:CZ	1:B:177:VAL:N	2.76	0.54
1:B:193:LEU:N	1:B:212:VAL:O	2.41	0.54
1:B:1460:ARG:CA	1:B:1461:ALA:CA	2.86	0.54
1:C:2415:LEU:HA	1:C:2418:PHE:CZ	2.43	0.54
1:D:26:PHE:HB3	1:D:56:CYS:SG	2.48	0.54
1:D:143:GLU:HG2	1:D:194:HIS:CD2	2.43	0.54
1:D:1460:ARG:CA	1:D:1461:ALA:CA	2.86	0.54
1:D:2481:PRO:CA	1:D:2482:GLU:CA	2.86	0.54
1:A:282:TRP:H	1:A:308:LEU:H	1.56	0.54
1:A:2451:LEU:O	1:A:2454:LEU:HG	2.08	0.54
1:A:2555:LYS:NZ	1:A:2562:LEU:HD11	2.22	0.54
1:C:26:PHE:HB3	1:C:56:CYS:SG	2.47	0.54
1:C:32:LEU:N	1:C:33:VAL:HA	2.22	0.54
1:C:418:ILE:HG22	1:C:419:GLY:N	2.23	0.54
1:C:2540:SER:O	1:C:2544:ARG:HG2	2.07	0.54
1:D:47:ASN:HA	1:D:291:PRO:HD3	1.89	0.54
1:D:209:VAL:HG11	1:D:218:TRP:HZ2	1.72	0.54
1:D:2451:LEU:O	1:D:2454:LEU:HG	2.08	0.54
1:A:143:GLU:HG2	1:A:194:HIS:CD2	2.43	0.53
1:A:254:ASP:OD1	1:A:255:GLU:N	2.40	0.53
1:A:1464:ASN:CA	1:A:1465:THR:CA	2.87	0.53
1:B:199:GLN:HB2	1:B:206:CYS:HB3	1.91	0.53
1:B:1464:ASN:CA	1:B:1465:THR:CA	2.87	0.53
1:B:2329:LYS:O	1:B:2333:ILE:HG12	2.08	0.53
1:B:2337:ILE:O	1:B:2341:ILE:HG22	2.08	0.53
1:B:2481:PRO:CA	1:B:2482:GLU:CA	2.86	0.53
1:C:299:TRP:CG	1:C:372:PRO:HG3	2.43	0.53
1:C:373:THR:N	1:C:388:VAL:HG21	2.09	0.53
1:C:546:HIS:H	1:C:549:PHE:HE2	1.56	0.53
1:C:2274:SER:H	1:C:2343:ARG:CZ	2.21	0.53
1:D:117:TYR:CZ	1:D:177:VAL:N	2.76	0.53
1:D:193:LEU:N	1:D:212:VAL:O	2.41	0.53
1:D:317:GLU:HG3	1:D:318:VAL:O	2.08	0.53
1:D:1464:ASN:CA	1:D:1465:THR:CA	2.86	0.53
1:A:117:TYR:CZ	1:A:177:VAL:N	2.77	0.53
1:A:2419:ASP:O	1:A:2422:TYR:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:18:TYR:CD2	1:B:20:GLU:HB2	2.43	0.53
1:B:391:ARG:HD3	1:B:398:TRP:HE3	1.73	0.53
1:B:540:GLU:O	1:B:544:GLN:HG2	2.08	0.53
1:B:2451:LEU:O	1:B:2454:LEU:HG	2.08	0.53
1:B:2540:SER:OG	1:B:2541:HIS:N	2.41	0.53
1:A:1460:ARG:CA	1:A:1461:ALA:CA	2.87	0.53
1:B:26:PHE:HB3	1:B:56:CYS:SG	2.48	0.53
1:B:2721:ASP:OD1	1:B:2722:GLN:N	2.41	0.53
1:C:242:LEU:HD22	1:C:307:HIS:HB3	1.91	0.53
1:C:2329:LYS:HG2	1:C:2330:PRO:HD3	1.89	0.53
1:C:2329:LYS:O	1:C:2333:ILE:HG12	2.08	0.53
1:D:2428:LEU:CG	1:D:2429:ASN:CG	2.82	0.53
1:D:2540:SER:OG	1:D:2541:HIS:N	2.41	0.53
1:A:6:SER:O	1:A:7:SER:OG	2.23	0.53
1:A:18:TYR:CD2	1:A:20:GLU:HB2	2.43	0.53
1:A:127:LYS:NZ	1:A:444:ASP:OD2	2.39	0.53
1:A:133:THR:OG1	1:A:159:SER:OG	2.22	0.53
1:A:2355:PHE:CZ	1:A:2357:LEU:HD23	2.44	0.53
1:B:130:LYS:NZ	1:B:153:GLU:OE1	2.34	0.53
1:B:577:GLN:HA	1:B:580:PHE:CD2	2.44	0.53
1:C:1460:ARG:CA	1:C:1461:ALA:CA	2.86	0.53
1:C:2481:PRO:CA	1:C:2482:GLU:CA	2.87	0.53
1:D:306:LYS:HA	1:D:313:TYR:HB3	1.90	0.53
1:D:2337:ILE:O	1:D:2341:ILE:HG22	2.08	0.53
1:D:2355:PHE:CZ	1:D:2357:LEU:HD23	2.44	0.53
1:A:314:LEU:O	1:A:356:VAL:N	2.42	0.53
1:B:29:THR:OG1	1:B:38:VAL:N	2.31	0.53
1:B:317:GLU:HG3	1:B:318:VAL:O	2.08	0.53
1:C:192:PRO:HG2	1:C:213:ASN:HA	1.91	0.53
1:C:577:GLN:HA	1:C:580:PHE:CD2	2.44	0.53
1:C:2355:PHE:CZ	1:C:2357:LEU:HD23	2.44	0.53
1:D:6:SER:O	1:D:7:SER:OG	2.24	0.53
1:D:418:ILE:HG22	1:D:419:GLY:H	1.72	0.53
1:A:577:GLN:HA	1:A:580:PHE:CD2	2.44	0.53
1:A:2721:ASP:OD1	1:A:2722:GLN:N	2.42	0.53
1:B:2355:PHE:CZ	1:B:2357:LEU:HD23	2.44	0.53
1:B:2370:MET:HA	1:B:2373:VAL:HG22	1.91	0.53
1:B:2540:SER:O	1:B:2544:ARG:HG2	2.08	0.53
1:C:18:TYR:CD2	1:C:20:GLU:HB2	2.43	0.53
1:C:2326:ALA:HA	1:C:2329:LYS:CE	2.39	0.53
1:C:2554:ARG:NH2	1:D:2519:GLU:HB2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:518:GLN:CD	1:A:518:GLN:H	2.14	0.53
1:B:506:ARG:HD3	1:B:562:HIS:CE1	2.44	0.53
1:B:2571:LEU:O	1:B:2575:PHE:HB3	2.09	0.53
1:C:117:TYR:CZ	1:C:177:VAL:N	2.76	0.53
1:C:2588:VAL:O	1:C:2592:THR:HG23	2.09	0.53
1:D:542:GLY:HA2	1:D:549:PHE:CE1	2.44	0.53
1:D:2329:LYS:O	1:D:2333:ILE:HG12	2.08	0.53
1:D:2362:VAL:O	1:D:2366:ILE:HG12	2.08	0.53
1:A:192:PRO:HG2	1:A:213:ASN:HA	1.91	0.53
1:A:564:GLN:N	1:A:564:GLN:OE1	2.42	0.53
1:A:2554:ARG:NH2	1:B:2519:GLU:HB2	2.23	0.53
1:C:282:TRP:H	1:C:308:LEU:H	1.56	0.53
1:D:543:ASP:OD1	1:D:550:ARG:NH2	2.37	0.53
1:D:2588:VAL:O	1:D:2592:THR:HG23	2.09	0.53
1:A:242:LEU:HD22	1:A:307:HIS:HB3	1.91	0.53
1:A:506:ARG:HD3	1:A:562:HIS:CE1	2.44	0.53
1:B:2588:VAL:O	1:B:2592:THR:HG23	2.09	0.53
1:C:244:HIS:CD2	1:C:430:PHE:HB3	2.43	0.53
1:C:317:GLU:HG3	1:C:318:VAL:O	2.09	0.53
1:C:1464:ASN:CA	1:C:1465:THR:CA	2.87	0.53
1:C:2370:MET:HA	1:C:2373:VAL:HG22	1.91	0.53
1:D:18:TYR:CD2	1:D:20:GLU:HB2	2.43	0.53
1:D:185:ASN:HB2	1:D:191:GLN:H	1.74	0.53
1:A:162:TYR:H	1:A:185:ASN:H	1.57	0.53
1:A:299:TRP:CG	1:A:372:PRO:HG3	2.43	0.53
1:C:2324:VAL:C	1:C:2326:ALA:H	2.16	0.53
1:C:2721:ASP:OD1	1:C:2722:GLN:N	2.42	0.53
1:D:84:THR:HG21	1:D:88:LEU:HD13	1.91	0.53
1:D:178:ILE:HG21	1:D:221:VAL:HG12	1.91	0.53
1:D:2540:SER:O	1:D:2544:ARG:HG2	2.08	0.53
1:A:2289:LEU:HA	1:A:2417:LEU:HD11	1.91	0.52
1:A:2481:PRO:CA	1:A:2482:GLU:CA	2.87	0.52
1:B:303:PHE:CD1	1:B:303:PHE:CB	2.77	0.52
1:B:314:LEU:O	1:B:356:VAL:N	2.42	0.52
1:B:1265:PRO:CA	1:B:1266:GLY:CA	2.87	0.52
1:B:2425:GLU:OE2	1:B:2431:ILE:HG21	2.08	0.52
1:B:2706:MET:HG3	1:B:2707:LYS:HD2	1.92	0.52
1:C:21:GLY:H	1:C:24:ASN:HA	1.74	0.52
1:C:314:LEU:O	1:C:356:VAL:N	2.42	0.52
1:D:33:VAL:HG23	1:D:35:ASP:HB2	1.90	0.52
1:A:33:VAL:HG23	1:A:35:ASP:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:192:PRO:HB2	1:B:212:VAL:O	2.08	0.52
1:B:2274:SER:H	1:B:2343:ARG:CZ	2.22	0.52
1:B:2291:VAL:HG21	1:B:2324:VAL:HG11	1.91	0.52
1:C:415:MET:CA	1:C:417:LYS:HE2	2.34	0.52
1:D:303:PHE:CD1	1:D:303:PHE:CB	2.77	0.52
1:D:2324:VAL:C	1:D:2326:ALA:H	2.16	0.52
1:D:2571:LEU:O	1:D:2575:PHE:HB3	2.09	0.52
1:A:209:VAL:HG11	1:A:218:TRP:HZ2	1.74	0.52
1:A:244:HIS:CD2	1:A:430:PHE:HB3	2.43	0.52
1:A:2432:LYS:CA	1:A:2435:THR:HG23	2.39	0.52
1:A:2563:PHE:O	1:A:2567:VAL:HG12	2.09	0.52
1:B:11:ILE:HD13	1:B:60:LEU:HB3	1.91	0.52
1:B:36:ARG:CZ	1:B:200:LEU:HG	2.40	0.52
1:B:47:ASN:HA	1:B:291:PRO:HD3	1.89	0.52
1:B:542:GLY:HA2	1:B:549:PHE:CE1	2.44	0.52
1:B:2419:ASP:O	1:B:2422:TYR:HB3	2.08	0.52
1:C:880:ASN:CA	1:C:881:PHE:CA	2.88	0.52
1:C:2432:LYS:CA	1:C:2435:THR:HG23	2.39	0.52
1:C:2540:SER:OG	1:C:2541:HIS:N	2.42	0.52
1:D:506:ARG:HD3	1:D:562:HIS:CE1	2.44	0.52
1:D:2274:SER:H	1:D:2343:ARG:CZ	2.22	0.52
1:D:2283:LEU:O	1:D:2287:MET:HG2	2.09	0.52
1:D:2524:LYS:HD2	1:D:2526:HIS:CD2	2.41	0.52
1:A:317:GLU:HG3	1:A:318:VAL:O	2.08	0.52
1:B:2554:ARG:NH2	1:C:2519:GLU:HB2	2.24	0.52
1:C:162:TYR:H	1:C:185:ASN:H	1.57	0.52
1:D:2370:MET:HA	1:D:2373:VAL:HG22	1.91	0.52
1:D:2527:THR:HB	1:D:2533:MET:HE1	1.92	0.52
1:A:6:SER:H	1:B:377:GLY:HA2	1.74	0.52
1:A:36:ARG:CZ	1:A:200:LEU:HG	2.40	0.52
1:A:2274:SER:H	1:A:2343:ARG:CZ	2.21	0.52
1:A:2519:GLU:HB2	1:D:2554:ARG:NH2	2.24	0.52
1:A:2540:SER:OG	1:A:2541:HIS:N	2.42	0.52
1:A:2548:GLY:HA2	1:A:2574:PHE:HE2	1.75	0.52
1:A:2588:VAL:O	1:A:2592:THR:HG23	2.09	0.52
1:B:178:ILE:HG21	1:B:221:VAL:HG12	1.91	0.52
1:B:2578:ILE:HA	1:B:2581:VAL:HG12	1.92	0.52
1:C:506:ARG:HD3	1:C:562:HIS:CE1	2.44	0.52
1:C:2459:GLY:C	1:C:2461:LEU:H	2.17	0.52
1:A:2370:MET:HA	1:A:2373:VAL:HG22	1.91	0.52
1:B:168:LYS:HD3	1:C:246:GLU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:306:LYS:HA	1:B:313:TYR:HB3	1.90	0.52
1:B:564:GLN:OE1	1:B:564:GLN:N	2.42	0.52
1:B:2563:PHE:O	1:B:2567:VAL:HG12	2.10	0.52
1:C:209:VAL:HG11	1:C:218:TRP:HZ2	1.74	0.52
1:C:1265:PRO:CA	1:C:1266:GLY:CA	2.87	0.52
1:C:2419:ASP:O	1:C:2422:TYR:HB3	2.08	0.52
1:D:36:ARG:CZ	1:D:200:LEU:HG	2.40	0.52
1:D:577:GLN:HA	1:D:580:PHE:CD2	2.44	0.52
1:D:2291:VAL:HG21	1:D:2324:VAL:HG11	1.91	0.52
1:A:246:GLU:O	1:D:168:LYS:HD3	2.09	0.52
1:A:2571:LEU:O	1:A:2575:PHE:HB3	2.10	0.52
1:A:2578:ILE:HA	1:A:2581:VAL:HG12	1.92	0.52
1:B:373:THR:HB	1:B:388:VAL:HG11	1.92	0.52
1:B:543:ASP:OD1	1:B:550:ARG:NH2	2.37	0.52
1:B:2441:ILE:O	1:B:2444:THR:OG1	2.11	0.52
1:C:11:ILE:HD13	1:C:60:LEU:HB3	1.91	0.52
1:C:36:ARG:CZ	1:C:200:LEU:HG	2.40	0.52
1:C:2285:VAL:O	1:C:2289:LEU:HB2	2.10	0.52
1:C:2571:LEU:O	1:C:2575:PHE:HB3	2.10	0.52
1:D:66:TYR:OH	1:D:160:TRP:HB2	2.10	0.52
1:D:564:GLN:OE1	1:D:564:GLN:N	2.42	0.52
1:D:2706:MET:HG3	1:D:2707:LYS:HD2	1.92	0.52
1:A:375:LEU:HG	1:D:177:VAL:HG21	1.92	0.52
1:A:546:HIS:H	1:A:549:PHE:HE2	1.56	0.52
1:A:2459:GLY:C	1:A:2461:LEU:H	2.17	0.52
1:A:2585:ILE:O	1:A:2589:ILE:HG12	2.10	0.52
1:B:84:THR:HG21	1:B:88:LEU:HD13	1.91	0.52
1:B:120:VAL:HG13	1:B:161:PHE:H	1.75	0.52
1:B:2288:ASN:HD22	1:B:2416:LEU:CD2	2.23	0.52
1:C:2365:LYS:O	1:C:2369:LEU:HB2	2.10	0.52
1:D:257:ARG:HH12	1:D:408:LYS:HD3	1.75	0.52
1:D:2285:VAL:O	1:D:2289:LEU:HB2	2.10	0.52
1:A:11:ILE:HD13	1:A:60:LEU:HB3	1.91	0.52
1:A:21:GLY:H	1:A:24:ASN:HA	1.74	0.52
1:A:2288:ASN:HD22	1:A:2416:LEU:CD2	2.23	0.52
1:A:2726:GLN:HA	1:A:2729:GLN:OE1	2.10	0.52
1:B:2415:LEU:HA	1:B:2418:PHE:CE2	2.45	0.52
1:C:364:ILE:HA	1:C:367:ILE:HD11	1.91	0.52
1:C:2527:THR:HB	1:C:2533:MET:HE1	1.90	0.52
1:D:194:HIS:O	1:D:209:VAL:HG22	2.10	0.52
1:D:314:LEU:O	1:D:356:VAL:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:373:THR:HB	1:D:388:VAL:HG11	1.92	0.52
1:D:405:PRO:O	1:D:417:LYS:NZ	2.43	0.52
1:D:446:ALA:HB1	1:D:513:GLN:HE22	1.75	0.52
1:D:2288:ASN:HD22	1:D:2416:LEU:CD2	2.23	0.52
1:D:2578:ILE:HA	1:D:2581:VAL:HG12	1.92	0.52
1:A:418:ILE:HG22	1:A:419:GLY:N	2.25	0.52
1:C:2524:LYS:HB3	1:C:2526:HIS:CD2	2.45	0.52
1:C:2563:PHE:O	1:C:2567:VAL:HG12	2.09	0.52
1:D:1265:PRO:CA	1:D:1266:GLY:CA	2.87	0.52
1:D:2415:LEU:HA	1:D:2418:PHE:CE2	2.45	0.52
1:D:2693:ASN:OD1	1:D:2694:GLU:N	2.43	0.52
1:A:253:CYS:SG	1:A:254:ASP:N	2.84	0.51
1:A:373:THR:HB	1:A:388:VAL:HG11	1.93	0.51
1:A:2283:LEU:O	1:A:2287:MET:HG2	2.10	0.51
1:B:364:ILE:HA	1:B:367:ILE:HD11	1.92	0.51
1:B:405:PRO:O	1:B:417:LYS:NZ	2.43	0.51
1:B:416:LEU:O	1:B:417:LYS:HD3	2.10	0.51
1:B:483:PHE:HD2	1:B:506:ARG:CZ	2.23	0.51
1:B:880:ASN:CA	1:B:881:PHE:CA	2.88	0.51
1:C:2451:LEU:O	1:C:2454:LEU:HG	2.09	0.51
1:C:2574:PHE:HA	1:C:2577:VAL:HG12	1.92	0.51
1:D:166:PHE:CG	1:D:167:TYR:N	2.78	0.51
1:D:364:ILE:HA	1:D:367:ILE:HD11	1.92	0.51
1:D:880:ASN:CA	1:D:881:PHE:CA	2.88	0.51
1:A:199:GLN:HB2	1:A:206:CYS:HB3	1.92	0.51
1:A:542:GLY:HA2	1:A:549:PHE:CE1	2.45	0.51
1:A:558:ARG:O	1:A:561:ARG:HB3	2.11	0.51
1:A:2326:ALA:HA	1:A:2329:LYS:CE	2.39	0.51
1:A:2706:MET:HG3	1:A:2707:LYS:HD2	1.92	0.51
1:B:66:TYR:OH	1:B:160:TRP:HB2	2.10	0.51
1:B:2285:VAL:O	1:B:2289:LEU:HB2	2.10	0.51
1:B:2365:LYS:O	1:B:2369:LEU:HB2	2.10	0.51
1:B:2583:ASN:OD1	1:B:2584:LEU:N	2.44	0.51
1:C:130:LYS:NZ	1:C:153:GLU:OE1	2.35	0.51
1:C:166:PHE:CG	1:C:167:TYR:N	2.79	0.51
1:C:178:ILE:HB	1:D:376:ARG:HH12	1.74	0.51
1:C:185:ASN:CB	1:C:191:GLN:HG3	2.40	0.51
1:C:416:LEU:O	1:C:417:LYS:HD3	2.11	0.51
1:C:2283:LEU:O	1:C:2287:MET:HG2	2.10	0.51
1:D:261:HIS:ND1	1:D:355:LEU:HD11	2.26	0.51
1:D:483:PHE:HD2	1:D:506:ARG:CZ	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:130:LYS:NZ	1:A:153:GLU:OE1	2.35	0.51
1:A:185:ASN:CB	1:A:191:GLN:HG3	2.40	0.51
1:A:1265:PRO:CA	1:A:1266:GLY:CA	2.87	0.51
1:A:2285:VAL:O	1:A:2289:LEU:HB2	2.10	0.51
1:A:2324:VAL:C	1:A:2326:ALA:H	2.16	0.51
1:B:21:GLY:H	1:B:24:ASN:HA	1.75	0.51
1:B:558:ARG:O	1:B:561:ARG:HB3	2.10	0.51
1:B:2283:LEU:O	1:B:2287:MET:HG2	2.10	0.51
1:B:2533:MET:HE3	1:B:2537:THR:HG21	1.92	0.51
1:B:2693:ASN:OD1	1:B:2694:GLU:N	2.43	0.51
1:C:199:GLN:HB2	1:C:206:CYS:HB3	1.92	0.51
1:C:253:CYS:SG	1:C:254:ASP:N	2.84	0.51
1:C:299:TRP:C	1:C:301:SER:H	2.18	0.51
1:C:542:GLY:HA2	1:C:549:PHE:CE1	2.45	0.51
1:C:2585:ILE:O	1:C:2589:ILE:HG12	2.10	0.51
1:D:2458:VAL:HG13	1:D:2569:TYR:HE1	1.76	0.51
1:A:196:SER:O	1:A:207:ASN:ND2	2.44	0.51
1:A:880:ASN:CA	1:A:881:PHE:CA	2.88	0.51
1:A:2365:LYS:O	1:A:2369:LEU:HB2	2.10	0.51
1:A:2574:PHE:HA	1:A:2577:VAL:HG12	1.92	0.51
1:B:185:ASN:HB2	1:B:191:GLN:H	1.74	0.51
1:B:2289:LEU:HA	1:B:2417:LEU:HD11	1.92	0.51
1:B:2726:GLN:HA	1:B:2729:GLN:OE1	2.11	0.51
1:B:2730:LYS:HD3	1:C:289:HIS:NE2	2.26	0.51
1:C:2288:ASN:HD22	1:C:2416:LEU:CD2	2.24	0.51
1:D:98:LEU:HD12	1:D:101:LYS:HZ1	1.75	0.51
1:D:400:HIS:CE1	1:D:422:PRO:HB3	2.45	0.51
1:D:558:ARG:O	1:D:561:ARG:HB3	2.11	0.51
1:D:2433:SER:OG	1:D:2434:VAL:N	2.42	0.51
1:A:66:TYR:OH	1:A:160:TRP:HB2	2.10	0.51
1:A:483:PHE:HD2	1:A:506:ARG:CZ	2.24	0.51
1:C:6:SER:H	1:D:377:GLY:HA2	1.75	0.51
1:C:117:TYR:CD2	1:C:176:VAL:N	2.78	0.51
1:C:168:LYS:HD3	1:D:246:GLU:O	2.11	0.51
1:C:398:TRP:N	1:C:422:PRO:HG2	2.23	0.51
1:C:2289:LEU:HA	1:C:2417:LEU:HD11	1.91	0.51
1:C:2413:TYR:O	1:C:2416:LEU:HB3	2.11	0.51
1:C:2555:LYS:NZ	1:C:2562:LEU:HD11	2.22	0.51
1:D:2555:LYS:NZ	1:D:2562:LEU:HD11	2.22	0.51
1:A:47:ASN:HA	1:A:291:PRO:HD3	1.92	0.51
1:A:247:GLN:HA	1:D:168:LYS:HZ3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:364:ILE:HA	1:A:367:ILE:HD11	1.92	0.51
1:A:2411:PHE:O	1:A:2414:SER:OG	2.26	0.51
1:A:2524:LYS:HB3	1:A:2526:HIS:CD2	2.46	0.51
1:A:2603:LYS:N	1:A:2604:GLU:OE1	2.43	0.51
1:B:127:LYS:NZ	1:B:444:ASP:OD2	2.39	0.51
1:B:299:TRP:C	1:B:301:SER:H	2.19	0.51
1:B:2432:LYS:CA	1:B:2435:THR:HG23	2.41	0.51
1:C:564:GLN:OE1	1:C:564:GLN:N	2.42	0.51
1:C:2348:VAL:HA	1:C:2351:GLN:CD	2.36	0.51
1:C:2457:ILE:O	1:C:2461:LEU:HB2	2.11	0.51
1:C:2533:MET:HE3	1:C:2537:THR:HG21	1.93	0.51
1:D:120:VAL:HG13	1:D:161:PHE:H	1.75	0.51
1:D:209:VAL:HG11	1:D:218:TRP:CZ2	2.46	0.51
1:D:482:TYR:CE1	1:D:488:THR:HG23	2.46	0.51
1:D:2365:LYS:O	1:D:2369:LEU:HB2	2.10	0.51
1:D:2559:GLU:O	1:D:2561:PRO:HD3	2.11	0.51
1:A:131:TYR:N	1:A:152:ASP:O	2.37	0.51
1:A:178:ILE:HG21	1:A:221:VAL:HG12	1.93	0.51
1:A:499:PHE:O	1:A:503:ASN:ND2	2.44	0.51
1:A:2423:ARG:O	1:A:2426:THR:HG22	2.11	0.51
1:A:2721:ASP:O	1:A:2724:THR:HB	2.11	0.51
1:B:177:VAL:HG21	1:C:375:LEU:HG	1.92	0.51
1:B:194:HIS:O	1:B:209:VAL:HG22	2.10	0.51
1:B:446:ALA:HB1	1:B:513:GLN:HE22	1.75	0.51
1:B:497:VAL:HG12	1:B:501:LYS:HG3	1.93	0.51
1:B:497:VAL:O	1:B:501:LYS:HG3	2.11	0.51
1:B:2329:LYS:HG3	1:B:2330:PRO:CD	2.40	0.51
1:B:2459:GLY:C	1:B:2461:LEU:H	2.19	0.51
1:C:66:TYR:OH	1:C:160:TRP:HB2	2.10	0.51
1:C:2548:GLY:HA2	1:C:2574:PHE:CE2	2.46	0.51
1:D:11:ILE:HD13	1:D:60:LEU:HB3	1.91	0.51
1:D:432:ILE:HG22	1:D:433:VAL:O	2.11	0.51
1:A:117:TYR:CD2	1:A:176:VAL:N	2.78	0.51
1:A:2548:GLY:HA2	1:A:2574:PHE:CE2	2.46	0.51
1:B:104:GLU:O	1:B:108:ARG:HG3	2.11	0.51
1:B:499:PHE:O	1:B:503:ASN:ND2	2.44	0.51
1:B:2458:VAL:HG13	1:B:2569:TYR:CE1	2.46	0.51
1:C:10:HIS:NE2	1:C:177:VAL:HA	2.26	0.51
1:C:117:TYR:CE1	1:C:181:LYS:HD2	2.46	0.51
1:C:444:ASP:O	1:C:448:ASP:HB3	2.11	0.51
1:C:2329:LYS:HG3	1:C:2330:PRO:CD	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2423:ARG:O	1:C:2426:THR:HG22	2.11	0.51
1:C:2559:GLU:O	1:C:2561:PRO:HD3	2.10	0.51
1:D:104:GLU:O	1:D:108:ARG:HG3	2.11	0.51
1:D:391:ARG:HD3	1:D:398:TRP:HE3	1.73	0.51
1:D:2329:LYS:HG3	1:D:2330:PRO:CD	2.40	0.51
1:D:2428:LEU:CD2	1:D:2429:ASN:ND2	2.72	0.51
1:B:253:CYS:SG	1:B:254:ASP:N	2.84	0.51
1:B:400:HIS:CE1	1:B:422:PRO:HB3	2.45	0.51
1:B:2574:PHE:HA	1:B:2577:VAL:HG12	1.93	0.51
1:C:266:THR:C	1:C:267:THR:HG1	2.18	0.51
1:C:312:HIS:N	1:C:358:VAL:O	2.44	0.51
1:C:373:THR:HB	1:C:388:VAL:HG11	1.93	0.51
1:C:2548:GLY:HA2	1:C:2574:PHE:HE2	1.75	0.51
1:D:86:ALA:HA	1:D:89:LEU:HB2	1.93	0.51
1:D:191:GLN:HA	1:D:192:PRO:O	2.11	0.51
1:D:299:TRP:C	1:D:301:SER:H	2.19	0.51
1:D:2289:LEU:HA	1:D:2417:LEU:HD11	1.92	0.51
1:D:2326:ALA:CA	1:D:2329:LYS:HE2	2.27	0.51
1:A:10:HIS:NE2	1:A:177:VAL:HA	2.26	0.51
1:A:2348:VAL:HA	1:A:2351:GLN:CD	2.36	0.51
1:B:209:VAL:HG11	1:B:218:TRP:CZ2	2.46	0.51
1:B:438:ALA:O	1:B:441:ARG:HB3	2.11	0.51
1:B:2325:ILE:HG22	1:B:2329:LYS:HZ3	1.72	0.51
1:B:2415:LEU:HA	1:B:2418:PHE:CZ	2.46	0.51
1:B:2527:THR:HB	1:B:2533:MET:HE1	1.92	0.51
1:C:191:GLN:HA	1:C:192:PRO:O	2.11	0.51
1:C:405:PRO:O	1:C:417:LYS:NZ	2.44	0.51
1:D:117:TYR:CE1	1:D:181:LYS:HD2	2.46	0.51
1:D:416:LEU:O	1:D:417:LYS:HD3	2.10	0.51
1:D:497:VAL:O	1:D:501:LYS:HG3	2.11	0.51
1:D:2389:ASP:CA	1:D:2390:VAL:CA	2.89	0.51
1:D:2415:LEU:HA	1:D:2418:PHE:CZ	2.46	0.51
1:D:2515:LEU:HB3	1:D:2516:PRO:HD3	1.93	0.51
1:D:2533:MET:HE3	1:D:2537:THR:HG21	1.92	0.51
1:A:185:ASN:HB2	1:A:191:GLN:H	1.76	0.50
1:A:400:HIS:CE1	1:A:422:PRO:HB3	2.46	0.50
1:A:2353:THR:HA	1:A:2354:LEU:HD23	1.94	0.50
1:A:2515:LEU:HB3	1:A:2516:PRO:HD3	1.93	0.50
1:A:2693:ASN:OD1	1:A:2694:GLU:N	2.44	0.50
1:B:444:ASP:O	1:B:448:ASP:HB3	2.11	0.50
1:B:482:TYR:CE1	1:B:488:THR:HG23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2524:LYS:HB3	1:B:2526:HIS:CD2	2.47	0.50
1:C:483:PHE:HD2	1:C:506:ARG:CZ	2.24	0.50
1:C:2578:ILE:HA	1:C:2581:VAL:HG12	1.92	0.50
1:D:2326:ALA:HA	1:D:2329:LYS:HE2	1.93	0.50
1:A:117:TYR:CE1	1:A:181:LYS:HD2	2.46	0.50
1:A:405:PRO:O	1:A:417:LYS:NZ	2.44	0.50
1:B:185:ASN:CB	1:B:191:GLN:HG3	2.42	0.50
1:B:370:LEU:HD23	1:B:390:LEU:HD13	1.93	0.50
1:C:55:ASP:HA	1:C:127:LYS:HG2	1.92	0.50
1:C:178:ILE:HG21	1:C:221:VAL:HG12	1.93	0.50
1:C:196:SER:O	1:C:207:ASN:ND2	2.44	0.50
1:C:558:ARG:O	1:C:561:ARG:HB3	2.11	0.50
1:C:2706:MET:HG3	1:C:2707:LYS:HD2	1.92	0.50
1:D:10:HIS:NE2	1:D:176:VAL:O	2.39	0.50
1:D:253:CYS:SG	1:D:254:ASP:N	2.84	0.50
1:D:546:HIS:H	1:D:549:PHE:HE2	1.58	0.50
1:A:178:ILE:HB	1:B:376:ARG:HH12	1.76	0.50
1:A:398:TRP:N	1:A:422:PRO:HG2	2.24	0.50
1:A:416:LEU:O	1:A:417:LYS:HD3	2.11	0.50
1:A:446:ALA:HB1	1:A:513:GLN:HE22	1.76	0.50
1:A:482:TYR:CE1	1:A:488:THR:HG23	2.47	0.50
1:B:261:HIS:ND1	1:B:355:LEU:HD11	2.26	0.50
1:C:47:ASN:HA	1:C:291:PRO:HD3	1.92	0.50
1:C:209:VAL:HG11	1:C:218:TRP:CZ2	2.47	0.50
1:C:482:TYR:CE1	1:C:488:THR:HG23	2.47	0.50
1:C:499:PHE:O	1:C:503:ASN:ND2	2.43	0.50
1:C:2515:LEU:HB3	1:C:2516:PRO:HD3	1.93	0.50
1:D:370:LEU:HD23	1:D:390:LEU:HD13	1.93	0.50
1:D:444:ASP:O	1:D:448:ASP:HB3	2.11	0.50
1:D:2339:SER:O	1:D:2342:LEU:HG	2.11	0.50
1:D:2726:GLN:HA	1:D:2729:GLN:OE1	2.11	0.50
1:A:191:GLN:HA	1:A:192:PRO:O	2.11	0.50
1:A:299:TRP:C	1:A:301:SER:H	2.18	0.50
1:A:376:ARG:HH12	1:D:178:ILE:HB	1.76	0.50
1:A:1302:HIS:CA	1:A:1303:GLY:CA	2.89	0.50
1:A:2333:ILE:HD13	1:A:2380:THR:OG1	2.11	0.50
1:A:2559:GLU:O	1:A:2561:PRO:HD3	2.10	0.50
1:B:117:TYR:CE1	1:B:181:LYS:HD2	2.46	0.50
1:B:2339:SER:O	1:B:2342:LEU:HG	2.12	0.50
1:B:2413:TYR:O	1:B:2416:LEU:HB3	2.11	0.50
1:C:185:ASN:HB2	1:C:191:GLN:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2429:ASN:C	1:C:2431:ILE:CD1	2.85	0.50
1:C:2458:VAL:HG13	1:C:2569:TYR:CE1	2.46	0.50
1:C:2726:GLN:HA	1:C:2729:GLN:OE1	2.10	0.50
1:D:389:ARG:NH2	1:D:426:ASP:O	2.44	0.50
1:D:2583:ASN:OD1	1:D:2584:LEU:N	2.44	0.50
1:A:168:LYS:HD3	1:B:246:GLU:O	2.11	0.50
1:A:249:LYS:HE3	1:A:264:LEU:CD2	2.42	0.50
1:A:2707:LYS:HE2	1:D:2712:LEU:HD13	1.94	0.50
1:B:166:PHE:CG	1:B:167:TYR:N	2.78	0.50
1:B:178:ILE:HB	1:C:376:ARG:HH12	1.76	0.50
1:B:432:ILE:HG22	1:B:433:VAL:O	2.11	0.50
1:B:2353:THR:HA	1:B:2354:LEU:HD23	1.94	0.50
1:B:2423:ARG:O	1:B:2426:THR:HG22	2.12	0.50
1:B:2429:ASN:C	1:B:2431:ILE:CD1	2.85	0.50
1:C:183:VAL:O	1:C:191:GLN:NE2	2.45	0.50
1:C:438:ALA:O	1:C:441:ARG:HB3	2.12	0.50
1:C:2389:ASP:CA	1:C:2390:VAL:CA	2.90	0.50
1:D:27:ILE:HG23	1:D:39:VAL:HG12	1.93	0.50
1:A:259:LYS:HB3	1:A:261:HIS:NE2	2.27	0.50
1:A:444:ASP:O	1:A:448:ASP:HB3	2.11	0.50
1:A:479:ASP:HA	1:A:482:TYR:CE2	2.46	0.50
1:A:2329:LYS:HG2	1:A:2330:PRO:HD3	1.94	0.50
1:B:191:GLN:HA	1:B:192:PRO:O	2.11	0.50
1:B:257:ARG:HH12	1:B:408:LYS:HD3	1.75	0.50
1:B:2548:GLY:HA2	1:B:2574:PHE:HE2	1.77	0.50
1:C:497:VAL:HG12	1:C:501:LYS:HG3	1.94	0.50
1:D:499:PHE:O	1:D:503:ASN:ND2	2.44	0.50
1:D:2433:SER:OG	1:D:2593:PHE:CE1	2.64	0.50
1:D:2548:GLY:HA2	1:D:2574:PHE:CE2	2.46	0.50
1:A:497:VAL:O	1:A:501:LYS:HG3	2.12	0.50
1:A:2389:ASP:CA	1:A:2390:VAL:CA	2.89	0.50
1:A:2714:GLY:O	1:A:2718:GLU:HG2	2.12	0.50
1:B:2389:ASP:CA	1:B:2390:VAL:CA	2.89	0.50
1:B:2524:LYS:HD2	1:B:2526:HIS:CD2	2.41	0.50
1:B:2559:GLU:O	1:B:2561:PRO:HD3	2.10	0.50
1:C:400:HIS:CE1	1:C:422:PRO:HB3	2.46	0.50
1:C:446:ALA:HB1	1:C:513:GLN:HE22	1.77	0.50
1:C:2339:SER:O	1:C:2342:LEU:HG	2.12	0.50
1:C:2458:VAL:HG13	1:C:2569:TYR:HE1	1.77	0.50
1:D:136:LYS:N	1:D:137:ARG:HB3	2.27	0.50
1:D:398:TRP:N	1:D:422:PRO:HG2	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:497:VAL:HG12	1:D:501:LYS:HG3	1.93	0.50
1:D:2353:THR:HA	1:D:2354:LEU:HD23	1.94	0.50
1:A:166:PHE:CG	1:A:167:TYR:N	2.79	0.50
1:A:476:LEU:O	1:A:479:ASP:HB2	2.12	0.50
1:A:543:ASP:OD1	1:A:550:ARG:NH2	2.37	0.50
1:A:2413:TYR:O	1:A:2416:LEU:HB3	2.11	0.50
1:B:249:LYS:HE3	1:B:264:LEU:CD2	2.42	0.50
1:B:364:ILE:HG23	1:B:367:ILE:HG13	1.94	0.50
1:B:389:ARG:NH2	1:B:426:ASP:O	2.44	0.50
1:B:2458:VAL:HG13	1:B:2569:TYR:HE1	1.75	0.50
1:C:194:HIS:O	1:C:209:VAL:HG22	2.11	0.50
1:C:238:ASP:OD1	1:C:238:ASP:N	2.43	0.50
1:C:1302:HIS:CA	1:C:1303:GLY:CA	2.89	0.50
1:C:2353:THR:HA	1:C:2354:LEU:HD23	1.93	0.50
1:C:2603:LYS:N	1:C:2604:GLU:OE1	2.43	0.50
1:D:1302:HIS:CA	1:D:1303:GLY:CA	2.89	0.50
1:D:2458:VAL:HG13	1:D:2569:TYR:CE1	2.46	0.50
1:A:55:ASP:HA	1:A:127:LYS:HG2	1.92	0.50
1:A:289:HIS:NE2	1:D:2730:LYS:HD3	2.26	0.50
1:B:124:LEU:HD12	1:B:131:TYR:HB2	1.94	0.50
1:B:285:GLU:N	1:B:303:PHE:CE2	2.80	0.50
1:B:2431:ILE:HD12	1:B:2431:ILE:N	2.08	0.50
1:C:2721:ASP:O	1:C:2724:THR:HB	2.11	0.50
1:D:2563:PHE:O	1:D:2567:VAL:HG12	2.12	0.50
1:A:438:ALA:O	1:A:441:ARG:HB3	2.12	0.49
1:A:2339:SER:O	1:A:2342:LEU:HG	2.12	0.49
1:A:2429:ASN:C	1:A:2431:ILE:CD1	2.85	0.49
1:B:1302:HIS:CA	1:B:1303:GLY:CA	2.89	0.49
1:C:131:TYR:O	1:C:152:ASP:N	2.45	0.49
1:C:136:LYS:N	1:C:137:ARG:HB3	2.28	0.49
1:C:240:VAL:HG22	1:C:241:ARG:N	2.27	0.49
1:C:309:ALA:HB3	1:C:310:THR:HA	1.94	0.49
1:C:370:LEU:HD23	1:C:390:LEU:HD13	1.95	0.49
1:C:497:VAL:O	1:C:501:LYS:HG3	2.12	0.49
1:C:2693:ASN:OD1	1:C:2694:GLU:N	2.44	0.49
1:D:21:GLY:H	1:D:24:ASN:HA	1.76	0.49
1:D:240:VAL:HG22	1:D:241:ARG:N	2.27	0.49
1:D:424:LYS:HD2	1:D:425:GLU:HG2	1.94	0.49
1:D:476:LEU:O	1:D:479:ASP:HB2	2.12	0.49
1:D:2333:ILE:HD13	1:D:2380:THR:OG1	2.12	0.49
1:D:2423:ARG:O	1:D:2426:THR:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:VAL:HG22	1:A:207:ASN:C	2.38	0.49
1:A:194:HIS:O	1:A:209:VAL:HG22	2.12	0.49
1:A:2458:VAL:HG13	1:A:2569:TYR:CE1	2.46	0.49
1:A:2533:MET:HE3	1:A:2537:THR:HG21	1.93	0.49
1:B:390:LEU:HD23	1:B:399:VAL:HG21	1.94	0.49
1:B:2721:ASP:O	1:B:2724:THR:HB	2.11	0.49
1:C:466:THR:OG1	1:C:469:GLU:HG3	2.12	0.49
1:C:2415:LEU:HA	1:C:2418:PHE:CE2	2.47	0.49
1:D:124:LEU:HD12	1:D:131:TYR:HB2	1.94	0.49
1:D:2459:GLY:O	1:D:2461:LEU:N	2.41	0.49
1:A:183:VAL:O	1:A:191:GLN:NE2	2.45	0.49
1:A:209:VAL:HG11	1:A:218:TRP:CZ2	2.47	0.49
1:A:312:HIS:N	1:A:358:VAL:O	2.44	0.49
1:A:458:GLY:HA2	1:A:461:GLU:OE2	2.13	0.49
1:A:2712:LEU:HD13	1:B:2707:LYS:HE2	1.94	0.49
1:B:97:ASP:OD1	1:B:98:LEU:N	2.46	0.49
1:B:136:LYS:N	1:B:137:ARG:HB3	2.27	0.49
1:B:2515:LEU:HB3	1:B:2516:PRO:HD3	1.93	0.49
1:C:39:VAL:HG22	1:C:207:ASN:C	2.37	0.49
1:C:135:ASN:HB2	1:C:138:LEU:O	2.12	0.49
1:C:364:ILE:HG23	1:C:367:ILE:HG13	1.95	0.49
1:C:543:ASP:OD1	1:C:550:ARG:NH2	2.36	0.49
1:C:2712:LEU:HD13	1:D:2707:LYS:HE2	1.94	0.49
1:D:2428:LEU:CD1	1:D:2429:ASN:ND2	2.73	0.49
1:D:2524:LYS:HB3	1:D:2526:HIS:CD2	2.47	0.49
1:D:2574:PHE:HA	1:D:2577:VAL:HG12	1.93	0.49
1:A:131:TYR:O	1:A:152:ASP:N	2.45	0.49
1:A:251:LEU:HG	1:A:264:LEU:HB2	1.94	0.49
1:A:364:ILE:HG23	1:A:367:ILE:HG13	1.94	0.49
1:A:2457:ILE:O	1:A:2461:LEU:HB2	2.11	0.49
1:B:2326:ALA:HA	1:B:2329:LYS:HE2	1.93	0.49
1:B:2437:ASN:CB	1:B:2592:THR:HG22	2.33	0.49
1:C:160:TRP:CD1	1:C:185:ASN:O	2.66	0.49
1:C:476:LEU:O	1:C:479:ASP:HB2	2.12	0.49
1:D:135:ASN:ND2	1:D:148:ARG:H	2.10	0.49
1:D:185:ASN:CB	1:D:191:GLN:HG3	2.42	0.49
1:D:438:ALA:O	1:D:441:ARG:HB3	2.11	0.49
1:D:507:GLN:HB2	1:D:567:TYR:HE2	1.78	0.49
1:A:545:ARG:HG3	1:A:549:PHE:CE2	2.47	0.49
1:A:2308:HIS:ND1	1:A:2308:HIS:O	2.46	0.49
1:B:2333:ILE:HD13	1:B:2380:THR:OG1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2586:PHE:HE2	1:D:2586:PHE:HE2	1.60	0.49
1:B:2603:LYS:N	1:B:2604:GLU:OE1	2.45	0.49
1:B:2712:LEU:HD13	1:C:2707:LYS:HE2	1.94	0.49
1:C:228:ASP:OD1	1:C:229:ASN:N	2.46	0.49
1:C:2333:ILE:HD13	1:C:2380:THR:OG1	2.12	0.49
1:C:2730:LYS:HD3	1:D:289:HIS:NE2	2.27	0.49
1:D:228:ASP:OD1	1:D:229:ASN:N	2.45	0.49
1:D:2413:TYR:O	1:D:2416:LEU:HB3	2.12	0.49
1:D:2587:GLY:HA2	1:D:2590:ILE:HG12	1.95	0.49
1:D:2721:ASP:O	1:D:2724:THR:HB	2.11	0.49
1:A:415:MET:CA	1:A:417:LYS:HE2	2.34	0.49
1:B:27:ILE:HG23	1:B:39:VAL:HG12	1.93	0.49
1:B:160:TRP:CD1	1:B:185:ASN:O	2.65	0.49
1:B:240:VAL:HG22	1:B:241:ARG:N	2.27	0.49
1:B:389:ARG:HD2	1:B:398:TRP:HE1	1.78	0.49
1:B:424:LYS:HD2	1:B:425:GLU:HG2	1.94	0.49
1:B:2411:PHE:O	1:B:2414:SER:OG	2.26	0.49
1:D:312:HIS:N	1:D:358:VAL:O	2.46	0.49
1:D:479:ASP:HA	1:D:482:TYR:CE2	2.48	0.49
1:D:545:ARG:HG3	1:D:549:PHE:CE2	2.47	0.49
1:D:2288:ASN:HD22	1:D:2416:LEU:HD23	1.78	0.49
1:D:2594:ALA:O	1:D:2598:SER:OG	2.29	0.49
1:A:94:HIS:O	1:A:98:LEU:HB2	2.13	0.49
1:A:104:GLU:O	1:A:108:ARG:HG3	2.12	0.49
1:A:104:GLU:HA	1:A:107:ASN:ND2	2.28	0.49
1:A:228:ASP:OD1	1:A:229:ASN:N	2.46	0.49
1:A:497:VAL:HG12	1:A:501:LYS:HG3	1.94	0.49
1:B:251:LEU:HG	1:B:264:LEU:HB2	1.94	0.49
1:B:259:LYS:HB3	1:B:261:HIS:NE2	2.28	0.49
1:B:476:LEU:O	1:B:479:ASP:HB2	2.12	0.49
1:B:2459:GLY:O	1:B:2461:LEU:N	2.41	0.49
1:B:2548:GLY:HA2	1:B:2574:PHE:CE2	2.46	0.49
1:B:2586:PHE:CD2	1:C:2586:PHE:CE2	2.80	0.49
1:C:104:GLU:O	1:C:108:ARG:HG3	2.12	0.49
1:C:251:LEU:HG	1:C:264:LEU:HB2	1.94	0.49
1:C:259:LYS:HB3	1:C:261:HIS:NE2	2.26	0.49
1:D:160:TRP:CD1	1:D:185:ASN:O	2.65	0.49
1:D:358:VAL:HG12	1:D:359:PRO:O	2.13	0.49
1:D:2308:HIS:ND1	1:D:2308:HIS:O	2.46	0.49
1:A:432:ILE:HG22	1:A:433:VAL:O	2.12	0.49
1:A:2730:LYS:HD3	1:B:289:HIS:NE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:ALA:HA	1:B:89:LEU:HB2	1.93	0.49
1:B:572:GLU:OE1	1:B:572:GLU:N	2.38	0.49
1:C:97:ASP:OD1	1:C:98:LEU:N	2.46	0.49
1:C:2308:HIS:ND1	1:C:2308:HIS:O	2.46	0.49
1:C:2583:ASN:OD1	1:C:2584:LEU:N	2.45	0.49
1:C:2714:GLY:O	1:C:2718:GLU:HG2	2.12	0.49
1:D:196:SER:O	1:D:207:ASN:ND2	2.46	0.49
1:D:364:ILE:HG23	1:D:367:ILE:HG13	1.95	0.49
1:D:466:THR:OG1	1:D:469:GLU:HG3	2.13	0.49
1:A:97:ASP:OD1	1:A:98:LEU:N	2.46	0.49
1:A:507:GLN:HB2	1:A:567:TYR:HE2	1.78	0.49
1:B:398:TRP:N	1:B:422:PRO:HG2	2.25	0.49
1:B:545:ARG:HG3	1:B:549:PHE:CE2	2.47	0.49
1:B:2702:LEU:HD23	1:B:2706:MET:HE2	1.95	0.49
1:C:545:ARG:HG3	1:C:549:PHE:CE2	2.47	0.49
1:D:2274:SER:O	1:D:2277:SER:HB2	2.13	0.49
1:D:2702:LEU:HD23	1:D:2706:MET:HE2	1.95	0.49
1:A:28:SER:OG	1:A:29:THR:N	2.46	0.49
1:A:160:TRP:CD1	1:A:185:ASN:O	2.66	0.49
1:A:314:LEU:HD23	1:A:366:SER:HB2	1.95	0.49
1:A:466:THR:OG1	1:A:469:GLU:HG3	2.12	0.49
1:A:2415:LEU:HA	1:A:2418:PHE:CE2	2.48	0.49
1:A:2458:VAL:HG13	1:A:2569:TYR:HE1	1.77	0.49
1:B:10:HIS:NE2	1:B:177:VAL:HA	2.28	0.49
1:B:228:ASP:OD1	1:B:229:ASN:N	2.45	0.49
1:B:466:THR:OG1	1:B:469:GLU:HG3	2.13	0.49
1:B:515:ILE:HA	1:B:518:GLN:HE22	1.78	0.49
1:C:358:VAL:HG12	1:C:359:PRO:O	2.13	0.49
1:C:458:GLY:HA2	1:C:461:GLU:OE2	2.13	0.49
1:C:2291:VAL:HG21	1:C:2324:VAL:HG11	1.94	0.49
1:D:390:LEU:HD23	1:D:399:VAL:HG21	1.94	0.49
1:A:135:ASN:HB2	1:A:138:LEU:O	2.12	0.48
1:A:370:LEU:HD23	1:A:390:LEU:HD13	1.95	0.48
1:A:2291:VAL:HG21	1:A:2324:VAL:HG11	1.94	0.48
1:B:6:SER:O	1:C:376:ARG:HG3	2.13	0.48
1:B:45:ASP:HB3	1:B:48:ASN:CB	2.43	0.48
1:B:104:GLU:HA	1:B:107:ASN:ND2	2.28	0.48
1:B:309:ALA:HB3	1:B:310:THR:HA	1.95	0.48
1:B:314:LEU:HD23	1:B:366:SER:HB2	1.95	0.48
1:C:432:ILE:HG22	1:C:433:VAL:O	2.13	0.48
1:C:479:ASP:HA	1:C:482:TYR:CE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2703:GLU:O	1:C:2707:LYS:HG2	2.13	0.48
1:D:231:ASP:H	1:D:384:ARG:NH2	2.11	0.48
1:D:285:GLU:N	1:D:303:PHE:CE2	2.80	0.48
1:A:136:LYS:N	1:A:137:ARG:HB3	2.27	0.48
1:A:139:PRO:HG2	1:A:148:ARG:NH1	2.28	0.48
1:A:160:TRP:CG	1:A:187:VAL:HG13	2.49	0.48
1:B:39:VAL:HG22	1:B:207:ASN:C	2.39	0.48
1:B:94:HIS:O	1:B:98:LEU:HB2	2.12	0.48
1:B:135:ASN:HB2	1:B:138:LEU:O	2.12	0.48
1:B:162:TYR:N	1:B:185:ASN:H	2.11	0.48
1:B:183:VAL:O	1:B:191:GLN:NE2	2.46	0.48
1:B:2703:GLU:O	1:B:2707:LYS:HG2	2.14	0.48
1:C:117:TYR:CG	1:C:176:VAL:HG23	2.48	0.48
1:C:139:PRO:HG2	1:C:148:ARG:NH1	2.28	0.48
1:C:484:VAL:HA	1:C:562:HIS:CE1	2.48	0.48
1:D:94:HIS:O	1:D:98:LEU:HB2	2.12	0.48
1:D:238:ASP:OD1	1:D:238:ASP:N	2.46	0.48
1:D:2378:THR:HA	1:D:2412:PHE:CE1	2.48	0.48
1:A:86:ALA:HA	1:A:89:LEU:HB2	1.94	0.48
1:A:117:TYR:CG	1:A:176:VAL:HG23	2.48	0.48
1:A:135:ASN:ND2	1:A:148:ARG:H	2.11	0.48
1:A:238:ASP:OD1	1:A:238:ASP:N	2.44	0.48
1:A:424:LYS:HD2	1:A:425:GLU:HG2	1.94	0.48
1:A:2274:SER:O	1:A:2277:SER:HB2	2.13	0.48
1:B:160:TRP:CG	1:B:187:VAL:HG13	2.48	0.48
1:B:168:LYS:HZ2	1:C:247:GLN:HA	1.78	0.48
1:B:484:VAL:HA	1:B:562:HIS:CE1	2.48	0.48
1:C:177:VAL:HG21	1:D:375:LEU:HG	1.94	0.48
1:C:2535:ILE:HG13	1:C:2536:VAL:N	2.28	0.48
1:D:10:HIS:NE2	1:D:177:VAL:HA	2.28	0.48
1:D:29:THR:OG1	1:D:38:VAL:N	2.31	0.48
1:D:117:TYR:CG	1:D:176:VAL:HG23	2.48	0.48
1:D:314:LEU:HD23	1:D:366:SER:HB2	1.96	0.48
1:D:484:VAL:HA	1:D:562:HIS:CE1	2.48	0.48
1:D:2459:GLY:C	1:D:2461:LEU:H	2.19	0.48
1:A:136:LYS:CB	1:A:188:ASN:HD22	2.26	0.48
1:A:309:ALA:HB3	1:A:310:THR:HA	1.95	0.48
1:A:2432:LYS:CA	1:A:2435:THR:CG2	2.91	0.48
1:A:2703:GLU:O	1:A:2707:LYS:HG2	2.13	0.48
1:B:135:ASN:ND2	1:B:148:ARG:H	2.10	0.48
1:B:479:ASP:HA	1:B:482:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2732:ARG:CA	1:B:2733:ILE:CA	2.92	0.48
1:C:86:ALA:HA	1:C:89:LEU:HB2	1.95	0.48
1:C:94:HIS:O	1:C:98:LEU:HB2	2.13	0.48
1:C:136:LYS:CB	1:C:188:ASN:HD22	2.26	0.48
1:C:424:LYS:HD2	1:C:425:GLU:HG2	1.94	0.48
1:C:2437:ASN:O	1:C:2441:ILE:HG13	2.14	0.48
1:D:2348:VAL:HA	1:D:2351:GLN:CD	2.38	0.48
1:D:2560:GLU:OE1	1:D:2560:GLU:N	2.43	0.48
1:A:389:ARG:NH2	1:A:426:ASP:O	2.47	0.48
1:A:2583:ASN:OD1	1:A:2584:LEU:N	2.45	0.48
1:B:109:LYS:O	1:B:113:THR:HG23	2.13	0.48
1:B:312:HIS:N	1:B:358:VAL:O	2.46	0.48
1:B:458:GLY:HA2	1:B:461:GLU:OE2	2.13	0.48
1:B:507:GLN:HB2	1:B:567:TYR:HE2	1.78	0.48
1:B:2239:LYS:CA	1:B:2240:ILE:CA	2.92	0.48
1:B:2587:GLY:HA2	1:B:2590:ILE:HG12	1.95	0.48
1:D:160:TRP:CG	1:D:187:VAL:HG13	2.48	0.48
1:D:200:LEU:HD12	1:D:202:ASP:H	1.79	0.48
1:D:251:LEU:HG	1:D:264:LEU:HB2	1.95	0.48
1:D:2381:ARG:HG3	1:D:2412:PHE:CZ	2.49	0.48
1:D:2702:LEU:HA	1:D:2705:THR:HG22	1.96	0.48
1:A:303:PHE:CD1	1:A:303:PHE:CB	2.77	0.48
1:A:400:HIS:H	1:A:420:THR:HG21	1.79	0.48
1:A:2274:SER:HB2	1:A:2343:ARG:CZ	2.44	0.48
1:B:395:THR:O	1:B:397:THR:HG22	2.14	0.48
1:C:249:LYS:HE3	1:C:264:LEU:CD2	2.42	0.48
1:C:2702:LEU:HD23	1:C:2706:MET:HE2	1.96	0.48
1:D:69:GLN:HE22	1:D:100:LYS:CG	2.26	0.48
1:D:139:PRO:HG2	1:D:148:ARG:NH1	2.28	0.48
1:D:162:TYR:N	1:D:185:ASN:H	2.11	0.48
1:D:249:LYS:HE2	1:D:415:MET:HE1	1.96	0.48
1:D:2548:GLY:HA2	1:D:2574:PHE:HE2	1.77	0.48
1:A:285:GLU:N	1:A:303:PHE:CE2	2.81	0.48
1:A:484:VAL:HA	1:A:562:HIS:CE1	2.48	0.48
1:A:2535:ILE:HG13	1:A:2536:VAL:N	2.28	0.48
1:B:139:PRO:HG2	1:B:148:ARG:NH1	2.28	0.48
1:B:234:LEU:HB2	1:B:383:PRO:HG2	1.95	0.48
1:B:243:PHE:CE2	1:B:432:ILE:HA	2.49	0.48
1:B:358:VAL:HG12	1:B:359:PRO:O	2.13	0.48
1:B:2308:HIS:ND1	1:B:2308:HIS:O	2.46	0.48
1:C:135:ASN:ND2	1:C:148:ARG:H	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:314:LEU:HD23	1:C:366:SER:HB2	1.95	0.48
1:D:104:GLU:HA	1:D:107:ASN:ND2	2.28	0.48
1:D:183:VAL:O	1:D:191:GLN:NE2	2.46	0.48
1:D:2274:SER:HB2	1:D:2343:ARG:CZ	2.44	0.48
1:D:2714:GLY:O	1:D:2718:GLU:HG2	2.13	0.48
1:A:128:SER:C	1:A:441:ARG:HE	2.22	0.48
1:A:197:SER:HA	1:A:207:ASN:HD21	1.79	0.48
1:B:90:ASN:O	1:B:93:HIS:HB2	2.14	0.48
1:B:196:SER:O	1:B:207:ASN:ND2	2.46	0.48
1:B:231:ASP:H	1:B:384:ARG:NH2	2.12	0.48
1:B:2274:SER:HB2	1:B:2343:ARG:CZ	2.44	0.48
1:B:2274:SER:O	1:B:2277:SER:HB2	2.13	0.48
1:C:285:GLU:HA	1:C:303:PHE:CG	2.46	0.48
1:C:2411:PHE:O	1:C:2414:SER:OG	2.26	0.48
1:C:2560:GLU:OE1	1:C:2560:GLU:N	2.44	0.48
1:D:132:LEU:HB3	1:D:150:THR:O	2.14	0.48
1:D:2239:LYS:CA	1:D:2240:ILE:CA	2.92	0.48
1:A:240:VAL:HG22	1:A:241:ARG:N	2.28	0.48
1:A:376:ARG:HG3	1:D:6:SER:O	2.13	0.48
1:A:2524:LYS:HD2	1:A:2526:HIS:CD2	2.41	0.48
1:A:2587:GLY:HA2	1:A:2590:ILE:HG12	1.95	0.48
1:A:2702:LEU:HD23	1:A:2706:MET:HE2	1.96	0.48
1:B:131:TYR:C	1:B:151:LEU:HA	2.39	0.48
1:B:2348:VAL:HA	1:B:2351:GLN:CD	2.38	0.48
1:B:2381:ARG:HG3	1:B:2412:PHE:CZ	2.49	0.48
1:C:417:LYS:HB2	1:C:418:ILE:CD1	2.44	0.48
1:C:2286:LEU:O	1:C:2289:LEU:HB3	2.13	0.48
1:C:2432:LYS:CA	1:C:2435:THR:CG2	2.91	0.48
1:D:39:VAL:HG22	1:D:207:ASN:C	2.39	0.48
1:D:97:ASP:OD1	1:D:98:LEU:N	2.46	0.48
1:D:131:TYR:C	1:D:151:LEU:HA	2.39	0.48
1:D:458:GLY:HA2	1:D:461:GLU:OE2	2.13	0.48
1:A:177:VAL:HG21	1:B:375:LEU:HG	1.95	0.48
1:A:358:VAL:HG12	1:A:359:PRO:O	2.13	0.48
1:A:555:LEU:HA	1:A:558:ARG:HB3	1.96	0.48
1:A:2571:LEU:HB3	1:B:2544:ARG:HH22	1.79	0.48
1:B:98:LEU:HD12	1:B:101:LYS:HZ1	1.79	0.48
1:B:397:THR:OG1	1:B:422:PRO:HB2	2.14	0.48
1:B:2288:ASN:HD22	1:B:2416:LEU:HD23	1.78	0.48
1:C:392:HIS:HD2	1:C:395:THR:HG22	1.79	0.48
1:C:2378:THR:HA	1:C:2412:PHE:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:136:LYS:CB	1:D:188:ASN:HD22	2.27	0.48
1:D:197:SER:HA	1:D:207:ASN:HD21	1.79	0.48
1:D:259:LYS:HB3	1:D:261:HIS:NE2	2.28	0.48
1:D:397:THR:OG1	1:D:422:PRO:HB2	2.14	0.48
1:D:2288:ASN:ND2	1:D:2420:LEU:HD12	2.29	0.48
1:D:2703:GLU:O	1:D:2707:LYS:HG2	2.13	0.48
1:B:55:ASP:HA	1:B:127:LYS:HG2	1.96	0.47
1:B:1269:GLU:CA	1:B:1270:ALA:CA	2.92	0.47
1:C:104:GLU:HA	1:C:107:ASN:ND2	2.28	0.47
1:C:109:LYS:O	1:C:113:THR:HG23	2.14	0.47
1:C:388:VAL:HG12	1:C:389:ARG:N	2.29	0.47
1:C:389:ARG:NH2	1:C:426:ASP:O	2.47	0.47
1:C:2430:VAL:O	1:C:2430:VAL:HG12	2.14	0.47
1:D:135:ASN:HB2	1:D:138:LEU:O	2.13	0.47
1:D:373:THR:N	1:D:388:VAL:HG21	2.10	0.47
1:D:395:THR:O	1:D:397:THR:HG22	2.14	0.47
1:D:2372:PHE:HA	1:D:2375:ASN:OD1	2.14	0.47
1:D:2434:VAL:CG1	1:D:2589:ILE:HD12	2.44	0.47
1:A:162:TYR:N	1:A:185:ASN:H	2.11	0.47
1:A:514:ASN:O	1:A:518:GLN:NE2	2.47	0.47
1:A:2333:ILE:O	1:A:2337:ILE:HG22	2.14	0.47
1:A:2372:PHE:HA	1:A:2375:ASN:OD1	2.14	0.47
1:B:117:TYR:CD2	1:B:176:VAL:N	2.79	0.47
1:B:2288:ASN:ND2	1:B:2420:LEU:HD12	2.29	0.47
1:B:2333:ILE:O	1:B:2337:ILE:HG22	2.15	0.47
1:B:2372:PHE:HA	1:B:2375:ASN:OD1	2.14	0.47
1:B:2430:VAL:O	1:B:2430:VAL:HG12	2.13	0.47
1:C:397:THR:OG1	1:C:422:PRO:HB2	2.15	0.47
1:C:2554:ARG:HH22	1:D:2519:GLU:HB2	1.79	0.47
1:D:133:THR:OG1	1:D:159:SER:OG	2.23	0.47
1:D:389:ARG:HD2	1:D:398:TRP:HE1	1.78	0.47
1:A:131:TYR:C	1:A:151:LEU:HA	2.39	0.47
1:A:257:ARG:HH12	1:A:408:LYS:HD3	1.79	0.47
1:A:2286:LEU:O	1:A:2289:LEU:HB3	2.13	0.47
1:A:2586:PHE:HE2	1:C:2586:PHE:HE2	1.61	0.47
1:A:2726:GLN:CD	1:A:2729:GLN:HE22	2.22	0.47
1:A:2732:ARG:CA	1:A:2733:ILE:CA	2.92	0.47
1:B:197:SER:HA	1:B:207:ASN:HD21	1.79	0.47
1:B:200:LEU:HD12	1:B:202:ASP:H	1.79	0.47
1:B:290:ASP:HB3	1:B:291:PRO:HD2	1.96	0.47
1:C:2274:SER:O	1:C:2277:SER:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2333:ILE:O	1:C:2337:ILE:HG22	2.14	0.47
1:C:2459:GLY:O	1:C:2461:LEU:N	2.44	0.47
1:D:65:ARG:NH2	1:D:100:LYS:HA	2.29	0.47
1:D:109:LYS:O	1:D:113:THR:HG23	2.13	0.47
1:D:515:ILE:HA	1:D:518:GLN:HE22	1.78	0.47
1:A:399:VAL:HA	1:A:420:THR:HB	1.95	0.47
1:A:417:LYS:HB2	1:A:418:ILE:CD1	2.44	0.47
1:A:460:LEU:C	1:A:463:GLY:H	2.23	0.47
1:B:64:ASN:O	1:B:66:TYR:N	2.48	0.47
1:B:136:LYS:CB	1:B:188:ASN:HD22	2.27	0.47
1:B:388:VAL:HG12	1:B:389:ARG:N	2.29	0.47
1:B:2535:ILE:HG13	1:B:2536:VAL:N	2.29	0.47
1:B:2560:GLU:OE1	1:B:2560:GLU:N	2.44	0.47
1:B:2714:GLY:O	1:B:2718:GLU:HG2	2.13	0.47
1:C:515:ILE:HA	1:C:518:GLN:HE22	1.80	0.47
1:D:117:TYR:CD2	1:D:176:VAL:N	2.79	0.47
1:D:234:LEU:HB2	1:D:383:PRO:HG2	1.95	0.47
1:D:243:PHE:CE2	1:D:432:ILE:HA	2.49	0.47
1:D:388:VAL:HG12	1:D:389:ARG:N	2.29	0.47
1:D:460:LEU:C	1:D:463:GLY:H	2.23	0.47
1:D:2732:ARG:CA	1:D:2733:ILE:CA	2.92	0.47
1:A:2285:VAL:HG12	1:A:2420:LEU:HD13	1.96	0.47
1:B:249:LYS:HE2	1:B:415:MET:HE1	1.95	0.47
1:B:415:MET:CA	1:B:417:LYS:HE2	2.34	0.47
1:B:546:HIS:H	1:B:549:PHE:HE2	1.58	0.47
1:B:2378:THR:HA	1:B:2412:PHE:CE1	2.48	0.47
1:B:2702:LEU:HA	1:B:2705:THR:HG22	1.96	0.47
1:C:18:TYR:CE2	1:C:20:GLU:HB3	2.49	0.47
1:C:128:SER:C	1:C:441:ARG:HE	2.22	0.47
1:C:2703:GLU:HG3	1:C:2706:MET:HE3	1.97	0.47
1:C:2732:ARG:CA	1:C:2733:ILE:CA	2.92	0.47
1:D:18:TYR:CE2	1:D:20:GLU:HB3	2.49	0.47
1:D:90:ASN:O	1:D:93:HIS:HB2	2.14	0.47
1:D:388:VAL:HG12	1:D:389:ARG:H	1.80	0.47
1:D:2726:GLN:CD	1:D:2729:GLN:HE22	2.22	0.47
1:A:200:LEU:HD12	1:A:202:ASP:H	1.80	0.47
1:A:410:GLU:HA	1:A:411:GLU:CB	2.43	0.47
1:A:2567:VAL:O	1:A:2571:LEU:HD12	2.15	0.47
1:B:2581:VAL:O	1:B:2585:ILE:HG12	2.15	0.47
1:C:28:SER:OG	1:C:29:THR:N	2.46	0.47
1:C:162:TYR:N	1:C:185:ASN:H	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:197:SER:HA	1:C:207:ASN:HD21	1.78	0.47
1:C:285:GLU:N	1:C:303:PHE:CE2	2.81	0.47
1:C:2288:ASN:ND2	1:C:2420:LEU:HD12	2.30	0.47
1:C:2355:PHE:CE2	1:C:2357:LEU:HB2	2.50	0.47
1:C:2391:GLU:CA	1:C:2392:PHE:CA	2.92	0.47
1:D:309:ALA:HB3	1:D:310:THR:HA	1.95	0.47
1:D:2704:SER:O	1:D:2708:LEU:HD13	2.15	0.47
1:A:18:TYR:CE2	1:A:20:GLU:HB3	2.49	0.47
1:A:69:GLN:HE22	1:A:100:LYS:CG	2.26	0.47
1:A:98:LEU:HA	1:A:101:LYS:HZ3	1.80	0.47
1:A:134:VAL:HA	1:A:137:ARG:HH12	1.79	0.47
1:A:283:GLU:HG2	1:A:284:VAL:HG23	1.96	0.47
1:A:1269:GLU:CA	1:A:1270:ALA:CA	2.92	0.47
1:A:2239:LYS:CA	1:A:2240:ILE:CA	2.92	0.47
1:A:2430:VAL:O	1:A:2430:VAL:HG12	2.14	0.47
1:A:2583:ASN:HA	1:B:2586:PHE:CE1	2.50	0.47
1:B:28:SER:OG	1:B:29:THR:N	2.48	0.47
1:B:69:GLN:HE22	1:B:100:LYS:CG	2.26	0.47
1:B:132:LEU:HB3	1:B:150:THR:O	2.14	0.47
1:B:392:HIS:CD2	1:B:394:CYS:HG	2.17	0.47
1:B:392:HIS:HD2	1:B:395:THR:HG22	1.80	0.47
1:B:2391:GLU:CA	1:B:2392:PHE:CA	2.93	0.47
1:B:2432:LYS:CA	1:B:2435:THR:CG2	2.92	0.47
1:C:45:ASP:HB3	1:C:48:ASN:CB	2.42	0.47
1:C:69:GLN:HE22	1:C:100:LYS:CG	2.26	0.47
1:C:139:PRO:HG2	1:C:148:ARG:HH22	1.80	0.47
1:C:160:TRP:CG	1:C:187:VAL:HG13	2.49	0.47
1:C:388:VAL:HG12	1:C:389:ARG:H	1.79	0.47
1:C:392:HIS:CD2	1:C:394:CYS:HG	2.16	0.47
1:C:399:VAL:HA	1:C:420:THR:HB	1.96	0.47
1:C:507:GLN:HB2	1:C:567:TYR:HE2	1.78	0.47
1:C:2571:LEU:HB3	1:D:2544:ARG:HH22	1.78	0.47
1:D:128:SER:C	1:D:441:ARG:HE	2.23	0.47
1:D:2288:ASN:ND2	1:D:2417:LEU:HA	2.30	0.47
1:D:2581:VAL:O	1:D:2585:ILE:HG12	2.15	0.47
1:D:2603:LYS:N	1:D:2604:GLU:OE1	2.45	0.47
1:A:139:PRO:HG2	1:A:148:ARG:HH22	1.79	0.47
1:A:2378:THR:HA	1:A:2412:PHE:CE1	2.49	0.47
1:A:2586:PHE:CD2	1:B:2586:PHE:CE2	2.75	0.47
1:B:18:TYR:CE2	1:B:20:GLU:HB3	2.49	0.47
1:B:388:VAL:HG12	1:B:389:ARG:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2288:ASN:ND2	1:B:2417:LEU:HA	2.30	0.47
1:C:131:TYR:C	1:C:151:LEU:HA	2.39	0.47
1:C:257:ARG:HH12	1:C:408:LYS:HD3	1.79	0.47
1:C:555:LEU:HA	1:C:558:ARG:HB3	1.96	0.47
1:C:2239:LYS:CA	1:C:2240:ILE:CA	2.92	0.47
1:C:2274:SER:HB2	1:C:2343:ARG:CZ	2.44	0.47
1:C:2372:PHE:HZ	1:C:2423:ARG:HE	1.63	0.47
1:D:135:ASN:HD22	1:D:139:PRO:C	2.23	0.47
1:D:156:ASN:OD1	1:D:156:ASN:N	2.47	0.47
1:D:248:GLU:OE2	1:D:271:SER:N	2.48	0.47
1:D:390:LEU:HD12	1:D:391:ARG:H	1.80	0.47
1:D:2535:ILE:HG13	1:D:2536:VAL:N	2.29	0.47
1:A:69:GLN:HG3	1:A:99:GLU:OE1	2.15	0.47
1:A:90:ASN:O	1:A:93:HIS:HB2	2.14	0.47
1:A:519:ILE:O	1:A:522:LEU:HB3	2.15	0.47
1:A:2355:PHE:CE2	1:A:2357:LEU:HB2	2.50	0.47
1:A:2441:ILE:O	1:A:2444:THR:OG1	2.11	0.47
1:A:2540:SER:O	1:A:2544:ARG:NH2	2.48	0.47
1:B:178:ILE:HB	1:C:376:ARG:NH1	2.30	0.47
1:B:283:GLU:HG2	1:B:284:VAL:HG23	1.97	0.47
1:B:537:ARG:HA	1:B:540:GLU:HG2	1.97	0.47
1:B:572:GLU:C	1:B:574:ILE:H	2.23	0.47
1:B:2704:SER:O	1:B:2708:LEU:HD13	2.15	0.47
1:B:2726:GLN:CD	1:B:2729:GLN:HE22	2.22	0.47
1:C:132:LEU:HB3	1:C:150:THR:O	2.15	0.47
1:C:134:VAL:HA	1:C:137:ARG:HH12	1.79	0.47
1:C:283:GLU:HG2	1:C:284:VAL:HG23	1.96	0.47
1:C:485:THR:HG23	1:C:487:GLY:H	1.80	0.47
1:C:514:ASN:O	1:C:518:GLN:NE2	2.48	0.47
1:C:2340:THR:HG21	1:C:2368:PHE:CZ	2.50	0.47
1:C:2575:PHE:CZ	1:C:2579:ILE:HD13	2.50	0.47
1:C:2704:SER:O	1:C:2708:LEU:HD13	2.14	0.47
1:D:28:SER:OG	1:D:29:THR:N	2.48	0.47
1:D:185:ASN:HB2	1:D:191:GLN:N	2.30	0.47
1:D:572:GLU:C	1:D:574:ILE:H	2.23	0.47
1:D:2379:PHE:HB2	1:D:2416:LEU:CD1	2.42	0.47
1:D:2391:GLU:CA	1:D:2392:PHE:CA	2.93	0.47
1:A:132:LEU:HB3	1:A:150:THR:O	2.15	0.47
1:A:515:ILE:HA	1:A:518:GLN:HE22	1.80	0.47
1:A:2326:ALA:HA	1:A:2329:LYS:HE2	1.96	0.47
1:B:7:SER:HB2	1:B:178:ILE:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2703:GLU:HG3	1:B:2706:MET:HE3	1.97	0.47
1:B:2728:LYS:HA	1:B:2732:ARG:HB2	1.97	0.47
1:C:200:LEU:HD12	1:C:202:ASP:H	1.80	0.47
1:C:2726:GLN:CD	1:C:2729:GLN:HE22	2.22	0.47
1:D:65:ARG:HE	1:D:103:ASN:HB2	1.80	0.47
1:A:161:PHE:CD1	1:A:184:LEU:HD12	2.50	0.46
1:A:376:ARG:NH1	1:D:178:ILE:HB	2.30	0.46
1:A:2288:ASN:ND2	1:A:2420:LEU:HD12	2.30	0.46
1:B:374:THR:OG1	1:B:375:LEU:N	2.48	0.46
1:B:390:LEU:HD12	1:B:391:ARG:H	1.80	0.46
1:B:2355:PHE:CE2	1:B:2357:LEU:HB2	2.50	0.46
1:C:9:LEU:HD23	1:C:226:TRP:CZ2	2.50	0.46
1:C:90:ASN:O	1:C:93:HIS:HB2	2.14	0.46
1:C:395:THR:O	1:C:397:THR:HG22	2.16	0.46
1:C:537:ARG:HA	1:C:540:GLU:HG2	1.98	0.46
1:C:572:GLU:C	1:C:574:ILE:H	2.24	0.46
1:C:2285:VAL:HG12	1:C:2420:LEU:HD13	1.97	0.46
1:C:2583:ASN:HA	1:D:2586:PHE:CE1	2.50	0.46
1:D:290:ASP:HB3	1:D:291:PRO:HD2	1.97	0.46
1:D:2340:THR:HG21	1:D:2368:PHE:CZ	2.49	0.46
1:A:9:LEU:HD23	1:A:226:TRP:CZ2	2.50	0.46
1:A:45:ASP:HB3	1:A:48:ASN:CB	2.43	0.46
1:A:388:VAL:HG12	1:A:389:ARG:H	1.80	0.46
1:A:2391:GLU:CA	1:A:2392:PHE:CA	2.92	0.46
1:A:2554:ARG:HH22	1:B:2519:GLU:HB2	1.79	0.46
1:A:2575:PHE:CZ	1:A:2579:ILE:HD13	2.50	0.46
1:A:2704:SER:O	1:A:2708:LEU:HD13	2.14	0.46
1:B:104:GLU:HA	1:B:107:ASN:HD21	1.80	0.46
1:B:117:TYR:CG	1:B:176:VAL:HG23	2.48	0.46
1:B:184:LEU:O	1:B:191:GLN:NE2	2.46	0.46
1:B:417:LYS:HB2	1:B:418:ILE:CD1	2.46	0.46
1:C:98:LEU:HD12	1:C:101:LYS:HZ1	1.79	0.46
1:C:226:TRP:N	1:C:226:TRP:CD1	2.83	0.46
1:C:410:GLU:HA	1:C:411:GLU:CB	2.43	0.46
1:C:1269:GLU:CA	1:C:1270:ALA:CA	2.93	0.46
1:C:2372:PHE:HA	1:C:2375:ASN:OD1	2.14	0.46
1:C:2381:ARG:HG3	1:C:2412:PHE:CZ	2.50	0.46
1:D:45:ASP:HB3	1:D:48:ASN:CB	2.43	0.46
1:D:64:ASN:O	1:D:66:TYR:N	2.48	0.46
1:D:249:LYS:HE3	1:D:264:LEU:CD2	2.42	0.46
1:D:374:THR:OG1	1:D:375:LEU:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:529:ASP:OD1	1:D:530:CYS:N	2.48	0.46
1:D:1269:GLU:CA	1:D:1270:ALA:CA	2.92	0.46
1:D:2286:LEU:O	1:D:2289:LEU:HB3	2.15	0.46
1:A:39:VAL:HG13	1:A:208:GLU:HG3	1.98	0.46
1:A:185:ASN:HB2	1:A:191:GLN:N	2.31	0.46
1:A:192:PRO:HB2	1:A:213:ASN:HA	1.97	0.46
1:A:388:VAL:HG12	1:A:389:ARG:N	2.29	0.46
1:A:465:ILE:HA	1:A:469:GLU:OE1	2.16	0.46
1:A:2587:GLY:O	1:A:2590:ILE:HG12	2.16	0.46
1:B:65:ARG:NH2	1:B:100:LYS:HA	2.29	0.46
1:B:514:ASN:O	1:B:518:GLN:NE2	2.47	0.46
1:B:529:ASP:OD1	1:B:530:CYS:N	2.49	0.46
1:B:1087:PHE:CA	1:B:1088:SER:CA	2.94	0.46
1:C:2567:VAL:O	1:C:2571:LEU:HD12	2.15	0.46
1:D:46:LEU:H	1:D:46:LEU:HD12	1.81	0.46
1:D:127:LYS:NZ	1:D:444:ASP:OD2	2.39	0.46
1:D:135:ASN:C	1:D:137:ARG:HB3	2.40	0.46
1:D:2428:LEU:HG	1:D:2429:ASN:OD1	2.16	0.46
1:D:2567:VAL:O	1:D:2571:LEU:HD12	2.15	0.46
1:A:64:ASN:O	1:A:66:TYR:N	2.48	0.46
1:A:390:LEU:HD12	1:A:391:ARG:H	1.81	0.46
1:A:1637:PHE:CA	1:A:1638:PRO:CA	2.94	0.46
1:A:2724:THR:HG23	1:A:2727:ARG:HE	1.81	0.46
1:B:58:PHE:CD2	1:B:123:LEU:HD21	2.51	0.46
1:B:2285:VAL:HG12	1:B:2420:LEU:HD13	1.97	0.46
1:B:2379:PHE:HB2	1:B:2416:LEU:CD1	2.42	0.46
1:B:2555:LYS:NZ	1:B:2562:LEU:HD21	2.31	0.46
1:C:104:GLU:HA	1:C:107:ASN:HD21	1.81	0.46
1:C:135:ASN:HD22	1:C:139:PRO:C	2.24	0.46
1:C:390:LEU:HD23	1:C:399:VAL:HG21	1.97	0.46
1:C:572:GLU:OE1	1:C:572:GLU:N	2.38	0.46
1:C:2555:LYS:NZ	1:C:2562:LEU:HD21	2.30	0.46
1:C:2587:GLY:HA2	1:C:2590:ILE:HG12	1.95	0.46
1:D:240:VAL:HG22	1:D:241:ARG:H	1.80	0.46
1:D:514:ASN:O	1:D:518:GLN:NE2	2.47	0.46
1:D:2333:ILE:O	1:D:2337:ILE:HG22	2.14	0.46
1:D:2355:PHE:CE2	1:D:2357:LEU:HB2	2.51	0.46
1:A:65:ARG:NH2	1:A:100:LYS:HA	2.31	0.46
1:A:231:ASP:H	1:A:384:ARG:NH2	2.14	0.46
1:A:2340:THR:HG21	1:A:2368:PHE:CZ	2.50	0.46
1:A:2555:LYS:NZ	1:A:2562:LEU:HD21	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:226:TRP:N	1:B:226:TRP:CD1	2.83	0.46
1:B:460:LEU:C	1:B:463:GLY:H	2.23	0.46
1:B:2372:PHE:HZ	1:B:2423:ARG:HE	1.62	0.46
1:B:2459:GLY:C	1:B:2461:LEU:N	2.74	0.46
1:B:2554:ARG:HH22	1:C:2519:GLU:HB2	1.80	0.46
1:C:46:LEU:H	1:C:46:LEU:HD12	1.81	0.46
1:C:185:ASN:HB2	1:C:191:GLN:N	2.31	0.46
1:C:1087:PHE:CA	1:C:1088:SER:CA	2.94	0.46
1:C:2587:GLY:O	1:C:2590:ILE:HG12	2.16	0.46
1:D:55:ASP:HA	1:D:127:LYS:HG2	1.96	0.46
1:D:161:PHE:CD1	1:D:184:LEU:HD12	2.51	0.46
1:D:208:GLU:HG2	1:D:209:VAL:N	2.26	0.46
1:D:283:GLU:HG2	1:D:284:VAL:HG23	1.97	0.46
1:D:381:LEU:HD12	1:D:381:LEU:O	2.16	0.46
1:D:465:ILE:HD11	1:D:470:ARG:NH2	2.31	0.46
1:D:2372:PHE:HZ	1:D:2423:ARG:HE	1.63	0.46
1:D:2555:LYS:NZ	1:D:2562:LEU:HD21	2.31	0.46
1:A:104:GLU:HA	1:A:107:ASN:HD21	1.81	0.46
1:A:231:ASP:CG	1:A:232:ASP:H	2.23	0.46
1:A:397:THR:OG1	1:A:422:PRO:HB2	2.14	0.46
1:A:2559:GLU:OE1	1:C:2301:ARG:HB3	2.16	0.46
1:B:381:LEU:O	1:B:381:LEU:HD12	2.16	0.46
1:B:545:ARG:HG3	1:B:549:PHE:HE2	1.81	0.46
1:B:2286:LEU:O	1:B:2289:LEU:HB3	2.15	0.46
1:C:447:ASN:OD1	1:C:448:ASP:N	2.49	0.46
1:C:2581:VAL:O	1:C:2585:ILE:HG12	2.15	0.46
1:D:139:PRO:HG2	1:D:148:ARG:HH22	1.79	0.46
1:D:417:LYS:HB2	1:D:418:ILE:CD1	2.46	0.46
1:D:537:ARG:HA	1:D:540:GLU:HG2	1.97	0.46
1:D:2541:HIS:HA	1:D:2544:ARG:HG2	1.98	0.46
1:A:9:LEU:HD23	1:A:226:TRP:CE2	2.51	0.46
1:A:395:THR:O	1:A:397:THR:HG22	2.16	0.46
1:B:135:ASN:C	1:B:137:ARG:HB3	2.41	0.46
1:B:248:GLU:OE2	1:B:271:SER:N	2.48	0.46
1:B:2355:PHE:CE2	1:B:2357:LEU:HD23	2.51	0.46
1:B:2367:ILE:O	1:B:2371:SER:OG	2.30	0.46
1:C:9:LEU:HD23	1:C:226:TRP:CE2	2.51	0.46
1:C:161:PHE:CD1	1:C:184:LEU:HD12	2.50	0.46
1:C:390:LEU:HD12	1:C:391:ARG:H	1.81	0.46
1:C:2431:ILE:HD12	1:C:2431:ILE:N	2.08	0.46
1:D:555:LEU:HA	1:D:558:ARG:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2355:PHE:CE2	1:D:2357:LEU:HD23	2.51	0.46
1:D:2411:PHE:O	1:D:2414:SER:OG	2.26	0.46
1:D:2535:ILE:O	1:D:2539:LEU:HD13	2.16	0.46
1:D:2575:PHE:CZ	1:D:2579:ILE:HD13	2.51	0.46
1:A:1012:SER:CA	1:A:1013:SER:CA	2.94	0.46
1:A:2437:ASN:O	1:A:2441:ILE:HG13	2.14	0.46
1:A:2568:ILE:O	1:A:2572:LEU:HB2	2.16	0.46
1:A:2581:VAL:O	1:A:2585:ILE:HG12	2.16	0.46
1:A:2584:LEU:O	1:A:2585:ILE:C	2.59	0.46
1:B:161:PHE:CD1	1:B:184:LEU:HD12	2.51	0.46
1:B:2340:THR:HG21	1:B:2368:PHE:CZ	2.50	0.46
1:B:2437:ASN:O	1:B:2441:ILE:HG13	2.16	0.46
1:B:2568:ILE:O	1:B:2572:LEU:HB2	2.15	0.46
1:C:374:THR:OG1	1:C:375:LEU:N	2.49	0.46
1:C:460:LEU:C	1:C:463:GLY:H	2.23	0.46
1:C:529:ASP:OD1	1:C:530:CYS:N	2.49	0.46
1:C:2540:SER:O	1:C:2544:ARG:NH2	2.48	0.46
1:D:7:SER:HB2	1:D:178:ILE:HD13	1.97	0.46
1:D:545:ARG:HG3	1:D:549:PHE:HE2	1.81	0.46
1:D:1087:PHE:CA	1:D:1088:SER:CA	2.94	0.46
1:D:2568:ILE:O	1:D:2572:LEU:HB2	2.16	0.46
1:D:2584:LEU:O	1:D:2585:ILE:C	2.59	0.46
1:D:2587:GLY:O	1:D:2590:ILE:HG12	2.16	0.46
1:A:46:LEU:H	1:A:46:LEU:HD12	1.81	0.46
1:A:68:ALA:O	1:A:71:GLN:HB3	2.16	0.46
1:A:240:VAL:HG22	1:A:241:ARG:H	1.80	0.46
1:A:404:ILE:HB	1:A:417:LYS:NZ	2.31	0.46
1:A:485:THR:HG23	1:A:487:GLY:H	1.80	0.46
1:A:2372:PHE:HZ	1:A:2423:ARG:HE	1.62	0.46
1:B:69:GLN:HG3	1:B:99:GLU:OE1	2.16	0.46
1:B:185:ASN:HB2	1:B:191:GLN:N	2.30	0.46
1:B:362:ASN:HB3	1:B:363:ASP:H	1.55	0.46
1:B:465:ILE:HA	1:B:469:GLU:OE1	2.16	0.46
1:B:465:ILE:HD11	1:B:470:ARG:NH2	2.31	0.46
1:B:2296:PRO:HB3	1:B:2321:LEU:HD21	1.98	0.46
1:B:2587:GLY:O	1:B:2590:ILE:HG12	2.16	0.46
1:C:65:ARG:NH2	1:C:100:LYS:HA	2.30	0.46
1:C:231:ASP:H	1:C:384:ARG:NH2	2.14	0.46
1:D:242:LEU:HD11	1:D:305:PHE:O	2.16	0.46
1:D:2358:GLY:O	1:D:2362:VAL:HG22	2.16	0.46
1:D:2459:GLY:C	1:D:2461:LEU:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:507:GLN:O	1:A:510:MET:HB3	2.16	0.46
1:A:572:GLU:C	1:A:574:ILE:H	2.24	0.46
1:A:1087:PHE:CA	1:A:1088:SER:CA	2.94	0.46
1:A:2355:PHE:CE2	1:A:2357:LEU:HD23	2.51	0.46
1:A:2703:GLU:HG3	1:A:2706:MET:HE3	1.97	0.46
1:B:128:SER:C	1:B:441:ARG:HE	2.23	0.46
1:B:242:LEU:HD11	1:B:305:PHE:O	2.16	0.46
1:B:1012:SER:CA	1:B:1013:SER:CA	2.94	0.46
1:B:1637:PHE:CA	1:B:1638:PRO:CA	2.94	0.46
1:B:2078:GLY:CA	1:B:2079:LYS:CA	2.94	0.46
1:B:2290:LEU:HD22	1:B:2304:THR:HB	1.98	0.46
1:C:64:ASN:O	1:C:66:TYR:N	2.48	0.46
1:C:69:GLN:HG3	1:C:99:GLU:OE1	2.16	0.46
1:C:135:ASN:C	1:C:137:ARG:HB3	2.42	0.46
1:C:246:GLU:O	1:C:248:GLU:N	2.42	0.46
1:C:260:GLN:HB3	1:C:357:SER:OG	2.16	0.46
1:C:519:ILE:O	1:C:522:LEU:HB3	2.15	0.46
1:C:545:ARG:HG3	1:C:549:PHE:HE2	1.81	0.46
1:D:58:PHE:CD2	1:D:123:LEU:HD21	2.51	0.46
1:D:511:ARG:HD2	1:D:515:ILE:HG12	1.98	0.46
1:D:571:GLN:HA	1:D:574:ILE:HD13	1.98	0.46
1:D:572:GLU:OE1	1:D:572:GLU:N	2.38	0.46
1:D:1012:SER:CA	1:D:1013:SER:CA	2.94	0.46
1:D:2290:LEU:HD22	1:D:2304:THR:HB	1.98	0.46
1:A:65:ARG:HE	1:A:103:ASN:HB2	1.81	0.45
1:A:135:ASN:HB2	1:A:138:LEU:C	2.41	0.45
1:A:2078:GLY:CA	1:A:2079:LYS:CA	2.94	0.45
1:A:2326:ALA:CA	1:A:2329:LYS:HE2	2.33	0.45
1:A:2329:LYS:HG3	1:A:2330:PRO:CD	2.45	0.45
1:B:139:PRO:HG2	1:B:148:ARG:HH22	1.80	0.45
1:B:238:ASP:OD1	1:B:238:ASP:N	2.46	0.45
1:B:485:THR:HG23	1:B:487:GLY:H	1.81	0.45
1:B:571:GLN:HA	1:B:574:ILE:HD13	1.98	0.45
1:B:2358:GLY:O	1:B:2362:VAL:HG22	2.16	0.45
1:B:2740:PRO:CA	1:B:2741:HIS:CA	2.94	0.45
1:C:135:ASN:HB2	1:C:138:LEU:C	2.41	0.45
1:C:231:ASP:CG	1:C:232:ASP:H	2.23	0.45
1:C:312:HIS:HB3	1:C:313:TYR:H	1.47	0.45
1:C:400:HIS:H	1:C:420:THR:HG21	1.80	0.45
1:C:2379:PHE:HB2	1:C:2416:LEU:CD1	2.44	0.45
1:C:2441:ILE:O	1:C:2444:THR:OG1	2.11	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2524:LYS:HD2	1:C:2526:HIS:CD2	2.41	0.45
1:C:2724:THR:HG23	1:C:2727:ARG:HE	1.81	0.45
1:C:2728:LYS:HA	1:C:2732:ARG:HB2	1.98	0.45
1:D:37:CYS:HB2	1:D:150:THR:HA	1.97	0.45
1:D:192:PRO:HB2	1:D:213:ASN:HA	1.98	0.45
1:D:447:ASN:OD1	1:D:448:ASP:N	2.49	0.45
1:D:465:ILE:HA	1:D:469:GLU:OE1	2.16	0.45
1:A:109:LYS:O	1:A:113:THR:HG23	2.14	0.45
1:A:134:VAL:HG12	1:A:138:LEU:HD22	1.98	0.45
1:A:234:LEU:HB2	1:A:383:PRO:HG2	1.98	0.45
1:A:248:GLU:OE2	1:A:271:SER:N	2.49	0.45
1:A:260:GLN:HB3	1:A:357:SER:OG	2.16	0.45
1:A:381:LEU:HD12	1:A:381:LEU:O	2.17	0.45
1:A:2301:ARG:HB3	1:C:2559:GLU:OE1	2.16	0.45
1:B:6:SER:H	1:C:377:GLY:HA2	1.81	0.45
1:B:555:LEU:HA	1:B:558:ARG:HB3	1.97	0.45
1:B:2535:ILE:O	1:B:2539:LEU:HD13	2.16	0.45
1:B:2575:PHE:CZ	1:B:2579:ILE:HD13	2.51	0.45
1:B:2580:ILE:HG23	1:B:2584:LEU:HD13	1.98	0.45
1:C:65:ARG:HE	1:C:103:ASN:HB2	1.81	0.45
1:C:192:PRO:HB2	1:C:213:ASN:HA	1.97	0.45
1:C:234:LEU:HB2	1:C:383:PRO:HG2	1.97	0.45
1:C:1634:PHE:CA	1:C:1635:PRO:CA	2.94	0.45
1:D:249:LYS:HZ3	1:D:267:THR:N	2.13	0.45
1:D:2285:VAL:HG12	1:D:2420:LEU:HD13	1.97	0.45
1:D:2728:LYS:HA	1:D:2732:ARG:HB2	1.97	0.45
1:A:8:PHE:HD1	1:B:375:LEU:HB3	1.81	0.45
1:A:128:SER:O	1:A:130:LYS:HG2	2.16	0.45
1:A:375:LEU:HB3	1:D:8:PHE:HD1	1.81	0.45
1:A:537:ARG:HA	1:A:540:GLU:HG2	1.98	0.45
1:B:9:LEU:HD23	1:B:226:TRP:CZ2	2.51	0.45
1:B:514:ASN:ND2	1:B:518:GLN:HE21	2.14	0.45
1:B:2341:ILE:O	1:B:2345:ILE:HG22	2.16	0.45
1:B:2567:VAL:O	1:B:2571:LEU:HD12	2.15	0.45
1:C:127:LYS:NZ	1:C:444:ASP:OD2	2.39	0.45
1:C:134:VAL:HG12	1:C:138:LEU:HD22	1.97	0.45
1:C:248:GLU:OE2	1:C:271:SER:N	2.49	0.45
1:C:465:ILE:HA	1:C:469:GLU:OE1	2.16	0.45
1:C:2355:PHE:CE2	1:C:2357:LEU:HD23	2.51	0.45
1:C:2358:GLY:O	1:C:2362:VAL:HG22	2.16	0.45
1:D:9:LEU:HD23	1:D:226:TRP:CZ2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:104:GLU:HA	1:D:107:ASN:HD21	1.80	0.45
1:D:514:ASN:ND2	1:D:518:GLN:HE21	2.14	0.45
1:D:2555:LYS:HZ2	1:D:2562:LEU:HD21	1.81	0.45
1:D:2725:GLU:HA	1:D:2728:LYS:HG2	1.97	0.45
1:A:7:SER:HB2	1:A:178:ILE:HD13	1.99	0.45
1:A:2459:GLY:C	1:A:2461:LEU:N	2.74	0.45
1:A:2519:GLU:HB2	1:D:2554:ARG:HH22	1.80	0.45
1:A:2725:GLU:HA	1:A:2728:LYS:HG2	1.98	0.45
1:A:2728:LYS:HA	1:A:2732:ARG:HB2	1.98	0.45
1:B:65:ARG:HH21	1:B:103:ASN:HB3	1.82	0.45
1:B:519:ILE:O	1:B:522:LEU:HB3	2.17	0.45
1:B:2324:VAL:C	1:B:2326:ALA:N	2.74	0.45
1:C:405:PRO:HD2	1:C:417:LYS:HD2	1.99	0.45
1:C:507:GLN:O	1:C:510:MET:HB3	2.16	0.45
1:C:1012:SER:CA	1:C:1013:SER:CA	2.94	0.45
1:C:2326:ALA:HA	1:C:2329:LYS:HE2	1.97	0.45
1:C:2568:ILE:O	1:C:2572:LEU:HB2	2.16	0.45
1:C:2702:LEU:HA	1:C:2705:THR:HG22	1.99	0.45
1:D:69:GLN:HG3	1:D:99:GLU:OE1	2.16	0.45
1:D:2319:ILE:HG22	1:D:2322:ALA:HB3	1.97	0.45
1:A:18:TYR:CE2	1:A:46:LEU:HG	2.51	0.45
1:A:2290:LEU:HD22	1:A:2304:THR:HB	1.98	0.45
1:A:2379:PHE:HB2	1:A:2416:LEU:CD1	2.44	0.45
1:A:2381:ARG:HG3	1:A:2412:PHE:CZ	2.51	0.45
1:A:2535:ILE:O	1:A:2539:LEU:HD13	2.16	0.45
1:B:240:VAL:HG22	1:B:241:ARG:H	1.81	0.45
1:B:404:ILE:HB	1:B:417:LYS:NZ	2.31	0.45
1:B:2725:GLU:HA	1:B:2728:LYS:HG2	1.97	0.45
1:C:8:PHE:HD1	1:D:375:LEU:HB3	1.81	0.45
1:C:2324:VAL:C	1:C:2326:ALA:N	2.74	0.45
1:C:2535:ILE:O	1:C:2539:LEU:HD13	2.16	0.45
1:D:131:TYR:O	1:D:152:ASP:N	2.46	0.45
1:D:469:GLU:O	1:D:473:VAL:HG12	2.17	0.45
1:D:2436:ARG:HD2	1:D:2436:ARG:HA	1.83	0.45
1:A:120:VAL:CG1	1:A:161:PHE:H	2.30	0.45
1:A:242:LEU:HD11	1:A:305:PHE:O	2.17	0.45
1:A:290:ASP:HB3	1:A:291:PRO:HD2	1.99	0.45
1:A:2541:HIS:HA	1:A:2544:ARG:HG2	1.99	0.45
1:B:8:PHE:HD1	1:C:375:LEU:HB3	1.81	0.45
1:B:64:ASN:ND2	1:B:103:ASN:OD1	2.49	0.45
1:B:103:ASN:HA	1:B:106:GLU:CD	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:312:HIS:HB3	1:B:313:TYR:H	1.47	0.45
1:B:410:GLU:HA	1:B:411:GLU:CB	2.43	0.45
1:C:168:LYS:HZ2	1:D:247:GLN:HA	1.80	0.45
1:C:242:LEU:HD11	1:C:305:PHE:O	2.17	0.45
1:C:2319:ILE:HG22	1:C:2322:ALA:HB3	1.98	0.45
1:D:68:ALA:O	1:D:71:GLN:HB3	2.17	0.45
1:D:246:GLU:O	1:D:248:GLU:N	2.45	0.45
1:D:415:MET:CA	1:D:417:LYS:HE2	2.34	0.45
1:D:2078:GLY:CA	1:D:2079:LYS:CA	2.94	0.45
1:D:2341:ILE:O	1:D:2345:ILE:HG22	2.17	0.45
1:D:2689:GLU:HA	1:D:2692:GLN:HB3	1.98	0.45
1:D:2703:GLU:HG3	1:D:2706:MET:HE3	1.97	0.45
1:A:199:GLN:HG3	1:A:204:PRO:O	2.17	0.45
1:A:208:GLU:HG2	1:A:209:VAL:N	2.27	0.45
1:A:243:PHE:CE2	1:A:432:ILE:HA	2.52	0.45
1:A:2327:LEU:C	1:A:2330:PRO:HD2	2.42	0.45
1:A:2532:LEU:O	1:A:2536:VAL:HG23	2.16	0.45
1:B:37:CYS:HB2	1:B:150:THR:HA	1.98	0.45
1:B:65:ARG:HE	1:B:103:ASN:HB2	1.80	0.45
1:B:511:ARG:HD2	1:B:515:ILE:HG12	1.98	0.45
1:B:2319:ILE:HG22	1:B:2322:ALA:HB3	1.97	0.45
1:C:39:VAL:HG13	1:C:208:GLU:HG3	1.98	0.45
1:C:128:SER:O	1:C:130:LYS:HG2	2.16	0.45
1:C:526:PRO:O	1:C:532:ASP:HB2	2.17	0.45
1:C:2078:GLY:CA	1:C:2079:LYS:CA	2.94	0.45
1:C:2701:LYS:HE3	1:D:2700:GLU:CD	2.42	0.45
1:C:2725:GLU:HA	1:C:2728:LYS:HG2	1.98	0.45
1:D:117:TYR:CD2	1:D:170:ARG:HD3	2.52	0.45
1:D:404:ILE:HB	1:D:417:LYS:NZ	2.31	0.45
1:D:2367:ILE:O	1:D:2371:SER:OG	2.30	0.45
1:A:135:ASN:HD22	1:A:139:PRO:C	2.24	0.45
1:A:219:LYS:HD3	1:A:219:LYS:HA	1.80	0.45
1:A:223:PHE:CE1	1:A:293:ARG:HB2	2.52	0.45
1:A:374:THR:OG1	1:A:375:LEU:N	2.49	0.45
1:A:405:PRO:HD2	1:A:417:LYS:HD2	1.99	0.45
1:A:526:PRO:O	1:A:532:ASP:HB2	2.17	0.45
1:A:529:ASP:OD1	1:A:530:CYS:N	2.48	0.45
1:A:2324:VAL:C	1:A:2326:ALA:N	2.74	0.45
1:A:2540:SER:HG	1:A:2541:HIS:H	1.65	0.45
1:A:2589:ILE:O	1:A:2592:THR:OG1	2.27	0.45
1:A:2702:LEU:HA	1:A:2705:THR:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:168:LYS:HD3	1:C:246:GLU:C	2.42	0.45
1:B:223:PHE:CE1	1:B:293:ARG:HB2	2.52	0.45
1:B:411:GLU:CD	1:B:412:LYS:HG3	2.42	0.45
1:B:447:ASN:OD1	1:B:448:ASP:N	2.50	0.45
1:B:2698:LEU:HD11	1:C:2693:ASN:HB3	1.98	0.45
1:C:68:ALA:O	1:C:71:GLN:HB3	2.16	0.45
1:C:381:LEU:HD12	1:C:381:LEU:O	2.17	0.45
1:D:485:THR:HG23	1:D:487:GLY:H	1.81	0.45
1:D:2296:PRO:HB3	1:D:2321:LEU:HD21	1.98	0.45
1:A:2367:ILE:O	1:A:2371:SER:OG	2.32	0.45
1:A:2701:LYS:HE3	1:B:2700:GLU:CD	2.42	0.45
1:B:135:ASN:HB2	1:B:138:LEU:C	2.42	0.45
1:B:135:ASN:HD22	1:B:139:PRO:C	2.24	0.45
1:B:192:PRO:HB2	1:B:213:ASN:HA	1.98	0.45
1:B:199:GLN:HG3	1:B:204:PRO:O	2.17	0.45
1:B:469:GLU:O	1:B:473:VAL:HG12	2.17	0.45
1:C:290:ASP:HB3	1:C:291:PRO:HD2	1.99	0.45
1:C:2290:LEU:HD22	1:C:2304:THR:HB	1.98	0.45
1:C:2459:GLY:C	1:C:2461:LEU:N	2.74	0.45
1:C:2740:PRO:CA	1:C:2741:HIS:CA	2.94	0.45
1:D:128:SER:O	1:D:130:LYS:HG2	2.17	0.45
1:D:404:ILE:HB	1:D:417:LYS:HZ2	1.81	0.45
1:D:1637:PHE:CA	1:D:1638:PRO:CA	2.94	0.45
1:D:2290:LEU:HA	1:D:2293:PHE:CE2	2.52	0.45
1:D:2740:PRO:CA	1:D:2741:HIS:CA	2.94	0.45
1:A:13:ASP:OD1	1:A:225:LYS:HD3	2.17	0.45
1:A:411:GLU:CD	1:A:412:LYS:HG3	2.42	0.45
1:A:2431:ILE:HD12	1:A:2431:ILE:N	2.08	0.45
1:A:2740:PRO:CA	1:A:2741:HIS:CA	2.94	0.45
1:B:147:MET:HE3	1:B:211:SER:HB3	1.99	0.45
1:B:260:GLN:HB3	1:B:357:SER:OG	2.17	0.45
1:B:285:GLU:HA	1:B:285:GLU:C	2.39	0.45
1:C:7:SER:HB2	1:C:178:ILE:HD13	1.98	0.45
1:C:27:ILE:HG23	1:C:39:VAL:HG12	1.99	0.45
1:C:136:LYS:HG2	1:C:147:MET:SD	2.57	0.45
1:C:404:ILE:HB	1:C:417:LYS:NZ	2.31	0.45
1:C:405:PRO:HD2	1:C:417:LYS:HA	1.99	0.45
1:C:411:GLU:CD	1:C:412:LYS:HG3	2.42	0.45
1:C:2288:ASN:ND2	1:C:2417:LEU:HA	2.32	0.45
1:C:2296:PRO:HB3	1:C:2321:LEU:HD21	1.99	0.45
1:C:2326:ALA:CA	1:C:2329:LYS:HE2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2353:THR:HA	1:C:2354:LEU:HA	1.70	0.45
1:D:199:GLN:HG3	1:D:204:PRO:O	2.17	0.45
1:D:2428:LEU:CG	1:D:2429:ASN:N	2.71	0.45
1:D:2732:ARG:HA	1:D:2733:ILE:CA	2.47	0.45
1:A:38:VAL:HB	1:A:39:VAL:H	1.60	0.44
1:A:377:GLY:HA2	1:D:6:SER:H	1.81	0.44
1:A:2288:ASN:ND2	1:A:2417:LEU:HA	2.32	0.44
1:B:68:ALA:O	1:B:71:GLN:HB3	2.17	0.44
1:B:231:ASP:CG	1:B:232:ASP:H	2.25	0.44
1:B:2290:LEU:HA	1:B:2293:PHE:CE2	2.52	0.44
1:B:2327:LEU:C	1:B:2330:PRO:HD2	2.42	0.44
1:C:39:VAL:HG22	1:C:207:ASN:O	2.17	0.44
1:C:240:VAL:HG22	1:C:241:ARG:H	1.80	0.44
1:C:554:ARG:O	1:C:558:ARG:N	2.50	0.44
1:C:2541:HIS:HA	1:C:2544:ARG:HG2	1.99	0.44
1:D:66:TYR:CZ	1:D:160:TRP:HB2	2.53	0.44
1:D:135:ASN:HB2	1:D:138:LEU:C	2.42	0.44
1:D:136:LYS:HG2	1:D:147:MET:SD	2.57	0.44
1:D:312:HIS:HB2	1:D:356:VAL:HG23	1.99	0.44
1:D:411:GLU:CD	1:D:412:LYS:HG3	2.42	0.44
1:D:519:ILE:O	1:D:522:LEU:HB3	2.17	0.44
1:D:2274:SER:CB	1:D:2339:SER:HB3	2.44	0.44
1:A:64:ASN:ND2	1:A:103:ASN:OD1	2.50	0.44
1:A:253:CYS:O	1:A:281:LEU:HD22	2.18	0.44
1:A:390:LEU:HD23	1:A:399:VAL:HG21	1.97	0.44
1:A:447:ASN:OD1	1:A:448:ASP:N	2.49	0.44
1:A:484:VAL:HA	1:A:506:ARG:HH11	1.82	0.44
1:A:2358:GLY:O	1:A:2362:VAL:HG22	2.16	0.44
1:A:2576:MET:O	1:A:2580:ILE:HG12	2.16	0.44
1:B:46:LEU:H	1:B:46:LEU:HD12	1.81	0.44
1:B:117:TYR:CD2	1:B:170:ARG:HD3	2.52	0.44
1:B:131:TYR:O	1:B:152:ASP:N	2.45	0.44
1:B:2541:HIS:HA	1:B:2544:ARG:HG2	1.99	0.44
1:B:2576:MET:O	1:B:2580:ILE:HG12	2.17	0.44
1:B:2689:GLU:HA	1:B:2692:GLN:HB3	1.98	0.44
1:C:58:PHE:CD2	1:C:123:LEU:HD21	2.53	0.44
1:C:136:LYS:HB3	1:C:188:ASN:HD22	1.81	0.44
1:C:253:CYS:O	1:C:281:LEU:HD22	2.18	0.44
1:C:2296:PRO:O	1:C:2297:PHE:CG	2.71	0.44
1:D:147:MET:HE3	1:D:211:SER:HB3	1.99	0.44
1:D:260:GLN:HB3	1:D:357:SER:OG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:489:ASN:HA	1:D:490:SER:HA	1.76	0.44
1:A:135:ASN:C	1:A:137:ARG:HB3	2.42	0.44
1:A:469:GLU:O	1:A:473:VAL:HG12	2.17	0.44
1:A:2422:TYR:O	1:A:2425:GLU:HB3	2.17	0.44
1:B:117:TYR:CD1	1:B:176:VAL:N	2.84	0.44
1:B:128:SER:O	1:B:130:LYS:HG2	2.17	0.44
1:B:312:HIS:HB2	1:B:356:VAL:HG23	1.98	0.44
1:B:507:GLN:O	1:B:510:MET:HB3	2.16	0.44
1:B:2287:MET:HA	1:B:2290:LEU:HG	2.00	0.44
1:B:2589:ILE:O	1:B:2592:THR:OG1	2.29	0.44
1:C:18:TYR:CE2	1:C:46:LEU:HG	2.51	0.44
1:C:469:GLU:O	1:C:473:VAL:HG12	2.17	0.44
1:C:2532:LEU:O	1:C:2536:VAL:HG23	2.16	0.44
1:C:2576:MET:O	1:C:2580:ILE:HG12	2.17	0.44
1:C:2584:LEU:O	1:C:2585:ILE:C	2.59	0.44
1:D:18:TYR:CE2	1:D:46:LEU:HG	2.52	0.44
1:D:507:GLN:O	1:D:510:MET:HB3	2.17	0.44
1:D:2296:PRO:O	1:D:2297:PHE:CG	2.71	0.44
1:D:2428:LEU:CG	1:D:2429:ASN:ND2	2.81	0.44
1:D:2576:MET:O	1:D:2580:ILE:HG12	2.17	0.44
1:A:45:ASP:N	1:A:48:ASN:O	2.50	0.44
1:A:70:LYS:O	1:A:74:LYS:HG2	2.17	0.44
1:A:226:TRP:N	1:A:226:TRP:CD1	2.83	0.44
1:A:392:HIS:HD2	1:A:395:THR:HG22	1.80	0.44
1:A:554:ARG:O	1:A:558:ARG:N	2.50	0.44
1:A:2290:LEU:HA	1:A:2293:PHE:CE2	2.53	0.44
1:A:2353:THR:HA	1:A:2354:LEU:HA	1.70	0.44
1:B:399:VAL:HA	1:B:420:THR:HB	2.00	0.44
1:C:249:LYS:HE2	1:C:415:MET:HE1	1.99	0.44
1:C:2288:ASN:HD22	1:C:2416:LEU:HD23	1.82	0.44
1:C:2355:PHE:O	1:C:2358:GLY:N	2.51	0.44
1:C:2724:THR:HG23	1:C:2727:ARG:NE	2.33	0.44
1:D:163:ILE:H	1:D:163:ILE:HD12	1.83	0.44
1:D:515:ILE:HB	1:D:573:TYR:CE2	2.53	0.44
1:D:2532:LEU:O	1:D:2536:VAL:HG23	2.16	0.44
1:A:136:LYS:HG2	1:A:147:MET:SD	2.57	0.44
1:A:400:HIS:O	1:A:420:THR:OG1	2.36	0.44
1:A:2319:ILE:HG22	1:A:2322:ALA:HB3	1.99	0.44
1:B:18:TYR:CE2	1:B:46:LEU:HG	2.52	0.44
1:B:163:ILE:HD12	1:B:163:ILE:H	1.83	0.44
1:B:309:ALA:H	1:B:310:THR:HB	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:389:ARG:NH2	1:B:427:LYS:HA	2.33	0.44
1:C:64:ASN:ND2	1:C:103:ASN:OD1	2.50	0.44
1:C:168:LYS:HD3	1:D:246:GLU:C	2.43	0.44
1:C:311:GLY:HA2	1:C:359:PRO:CD	2.48	0.44
1:D:231:ASP:CG	1:D:232:ASP:H	2.25	0.44
1:D:2540:SER:HG	1:D:2541:HIS:H	1.66	0.44
1:D:2580:ILE:HA	1:D:2583:ASN:OD1	2.17	0.44
1:A:58:PHE:CD2	1:A:123:LEU:HD21	2.53	0.44
1:A:168:LYS:HD3	1:B:246:GLU:C	2.43	0.44
1:A:178:ILE:HB	1:B:376:ARG:NH1	2.33	0.44
1:A:511:ARG:HD2	1:A:515:ILE:HG12	1.99	0.44
1:A:2287:MET:HA	1:A:2290:LEU:HG	2.00	0.44
1:A:2368:PHE:O	1:A:2372:PHE:HD2	2.01	0.44
1:A:2700:GLU:CD	1:D:2701:LYS:HE3	2.43	0.44
1:B:311:GLY:HA2	1:B:359:PRO:CD	2.47	0.44
1:B:2532:LEU:O	1:B:2536:VAL:HG23	2.17	0.44
1:B:2701:LYS:HE3	1:C:2700:GLU:CD	2.43	0.44
1:C:45:ASP:N	1:C:48:ASN:O	2.50	0.44
1:C:117:TYR:CD1	1:C:176:VAL:N	2.83	0.44
1:D:134:VAL:HA	1:D:137:ARG:HH12	1.82	0.44
1:D:223:PHE:CE1	1:D:293:ARG:HB2	2.52	0.44
1:D:317:GLU:C	1:D:421:SER:HB3	2.43	0.44
1:D:484:VAL:HA	1:D:506:ARG:HH11	1.83	0.44
1:D:2580:ILE:HG23	1:D:2584:LEU:HD13	1.98	0.44
1:A:29:THR:OG1	1:A:38:VAL:N	2.31	0.44
1:A:134:VAL:HB	1:A:135:ASN:HB3	1.99	0.44
1:A:163:ILE:H	1:A:163:ILE:HD12	1.83	0.44
1:A:246:GLU:C	1:D:168:LYS:HD3	2.42	0.44
1:A:401:SER:HA	1:A:418:ILE:HG12	2.00	0.44
1:A:405:PRO:HD2	1:A:417:LYS:HA	1.99	0.44
1:A:2728:LYS:O	1:A:2732:ARG:N	2.41	0.44
1:B:39:VAL:HG22	1:B:207:ASN:O	2.18	0.44
1:B:282:TRP:H	1:B:308:LEU:N	2.16	0.44
1:B:439:GLU:O	1:B:442:ASP:HB3	2.18	0.44
1:B:2353:THR:HA	1:B:2354:LEU:HA	1.70	0.44
1:B:2460:TYR:HA	1:B:2566:ARG:CZ	2.48	0.44
1:B:2580:ILE:HA	1:B:2583:ASN:OD1	2.18	0.44
1:C:25:GLY:HA2	1:C:43:ALA:HB2	1.99	0.44
1:C:70:LYS:O	1:C:74:LYS:HG2	2.18	0.44
1:C:120:VAL:HG11	1:C:160:TRP:CE3	2.53	0.44
1:C:120:VAL:CG1	1:C:161:PHE:H	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:243:PHE:CE2	1:C:432:ILE:HA	2.52	0.44
1:C:484:VAL:HA	1:C:506:ARG:HH11	1.82	0.44
1:C:2287:MET:HA	1:C:2290:LEU:HG	2.00	0.44
1:C:2422:TYR:O	1:C:2425:GLU:HB3	2.17	0.44
1:D:64:ASN:ND2	1:D:103:ASN:OD1	2.49	0.44
1:D:120:VAL:CG1	1:D:161:PHE:H	2.30	0.44
1:D:311:GLY:HA2	1:D:359:PRO:CD	2.47	0.44
1:D:389:ARG:NH2	1:D:427:LYS:HA	2.33	0.44
1:D:410:GLU:HA	1:D:411:GLU:CB	2.43	0.44
1:D:2327:LEU:C	1:D:2330:PRO:HD2	2.42	0.44
1:A:25:GLY:HA2	1:A:43:ALA:HB2	1.99	0.44
1:A:52:LYS:O	1:A:55:ASP:N	2.47	0.44
1:A:117:TYR:CD1	1:A:176:VAL:N	2.84	0.44
1:A:279:LYS:O	1:A:281:LEU:HD13	2.18	0.44
1:A:2288:ASN:HD22	1:A:2416:LEU:HD23	1.82	0.44
1:A:2296:PRO:HB3	1:A:2321:LEU:HD21	1.99	0.44
1:A:2547:GLY:H	1:B:2544:ARG:HD2	1.83	0.44
1:C:13:ASP:OD1	1:C:225:LYS:HD3	2.18	0.44
1:C:199:GLN:HG3	1:C:204:PRO:O	2.17	0.44
1:C:282:TRP:H	1:C:308:LEU:N	2.16	0.44
1:C:389:ARG:NH2	1:C:427:LYS:HA	2.33	0.44
1:C:524:GLN:HA	1:C:527:PHE:CB	2.48	0.44
1:D:120:VAL:HG13	1:D:161:PHE:HB2	2.00	0.44
1:D:2422:TYR:O	1:D:2425:GLU:HB3	2.18	0.44
1:D:2534:CYS:O	1:D:2538:VAL:HG13	2.18	0.44
1:A:362:ASN:HB3	1:A:363:ASP:H	1.54	0.44
1:A:389:ARG:NH2	1:A:427:LYS:HA	2.33	0.44
1:A:2460:TYR:HA	1:A:2566:ARG:CZ	2.48	0.44
1:A:2544:ARG:HH22	1:D:2571:LEU:HB3	1.82	0.44
1:A:2693:ASN:HB3	1:D:2698:LEU:HD11	1.98	0.44
1:B:116:GLN:HA	1:B:175:SER:HA	2.00	0.44
1:B:140:ALA:HA	1:B:147:MET:HA	2.00	0.44
1:B:405:PRO:HD2	1:B:417:LYS:HD2	2.00	0.44
1:B:2457:ILE:O	1:B:2461:LEU:HB2	2.18	0.44
1:B:2559:GLU:OE1	1:D:2301:ARG:HB3	2.18	0.44
1:C:37:CYS:HB2	1:C:150:THR:HA	1.99	0.44
1:C:65:ARG:HH21	1:C:103:ASN:HB3	1.82	0.44
1:C:2290:LEU:HA	1:C:2293:PHE:CE2	2.53	0.44
1:D:69:GLN:NE2	1:D:100:LYS:HG2	2.33	0.44
1:D:103:ASN:HA	1:D:106:GLU:CD	2.42	0.44
1:A:27:ILE:HG23	1:A:39:VAL:HG12	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:ARG:HH21	1:A:103:ASN:HB3	1.82	0.43
1:A:134:VAL:HA	1:A:135:ASN:HA	1.87	0.43
1:A:246:GLU:O	1:A:248:GLU:N	2.42	0.43
1:A:249:LYS:HE2	1:A:415:MET:HE1	1.99	0.43
1:A:317:GLU:C	1:A:421:SER:HB3	2.43	0.43
1:A:392:HIS:CD2	1:A:394:CYS:HG	2.16	0.43
1:A:2724:THR:HG23	1:A:2727:ARG:NE	2.33	0.43
1:B:38:VAL:HB	1:B:39:VAL:H	1.58	0.43
1:B:66:TYR:CZ	1:B:160:TRP:HB2	2.53	0.43
1:B:533:GLY:HA2	1:B:537:ARG:CB	2.47	0.43
1:C:2327:LEU:C	1:C:2330:PRO:HD2	2.42	0.43
1:C:2349:GLY:N	1:C:2351:GLN:OE1	2.35	0.43
1:C:2580:ILE:HG23	1:C:2584:LEU:HD13	2.01	0.43
1:D:11:ILE:HG12	1:D:115:ILE:HG13	2.00	0.43
1:D:65:ARG:HH21	1:D:103:ASN:HB3	1.82	0.43
1:D:147:MET:O	1:D:210:ASN:ND2	2.37	0.43
1:D:309:ALA:H	1:D:310:THR:HB	1.82	0.43
1:D:2325:ILE:HG22	1:D:2329:LYS:HZ3	1.70	0.43
1:D:2430:VAL:N	1:D:2431:ILE:CD1	2.73	0.43
1:D:2540:SER:O	1:D:2544:ARG:NH2	2.51	0.43
1:A:136:LYS:HB3	1:A:188:ASN:HD22	1.82	0.43
1:A:197:SER:HA	1:A:207:ASN:ND2	2.34	0.43
1:A:233:ILE:H	1:A:384:ARG:HE	1.66	0.43
1:A:465:ILE:HD11	1:A:470:ARG:NH2	2.32	0.43
1:A:2689:GLU:HA	1:A:2692:GLN:HB3	2.00	0.43
1:B:71:GLN:HA	1:B:74:LYS:NZ	2.33	0.43
1:B:120:VAL:CG1	1:B:161:PHE:H	2.30	0.43
1:B:136:LYS:HG2	1:B:147:MET:SD	2.57	0.43
1:B:253:CYS:O	1:B:281:LEU:HD22	2.18	0.43
1:B:526:PRO:O	1:B:532:ASP:HB2	2.18	0.43
1:B:682:THR:CA	1:B:683:GLY:CA	2.96	0.43
1:B:2571:LEU:HB3	1:C:2544:ARG:HH22	1.82	0.43
1:C:71:GLN:HA	1:C:74:LYS:NZ	2.34	0.43
1:C:117:TYR:CD2	1:C:170:ARG:HD3	2.53	0.43
1:C:143:GLU:HG3	1:C:144:LYS:N	2.33	0.43
1:C:163:ILE:H	1:C:163:ILE:HD12	1.83	0.43
1:C:239:VAL:HB	1:C:283:GLU:HG3	2.00	0.43
1:C:482:TYR:HB2	1:C:488:THR:HA	2.00	0.43
1:C:2460:TYR:HA	1:C:2566:ARG:CZ	2.48	0.43
1:D:439:GLU:O	1:D:442:ASP:HB3	2.18	0.43
1:D:2287:MET:HA	1:D:2290:LEU:HG	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2532:LEU:HD23	1:D:2532:LEU:HA	1.85	0.43
1:A:2296:PRO:O	1:A:2297:PHE:CG	2.70	0.43
1:B:120:VAL:HG13	1:B:161:PHE:HB2	2.00	0.43
1:B:131:TYR:CZ	1:B:132:LEU:HG	2.54	0.43
1:B:2301:ARG:HB3	1:D:2559:GLU:OE1	2.18	0.43
1:B:2584:LEU:O	1:B:2585:ILE:C	2.59	0.43
1:C:208:GLU:HG2	1:C:209:VAL:N	2.28	0.43
1:C:514:ASN:ND2	1:C:518:GLN:HE21	2.17	0.43
1:D:32:LEU:HB2	1:D:33:VAL:C	2.44	0.43
1:D:193:LEU:HD13	1:D:209:VAL:HG13	2.00	0.43
1:D:219:LYS:HD3	1:D:219:LYS:HA	1.79	0.43
1:D:2362:VAL:O	1:D:2365:LYS:HB3	2.19	0.43
1:A:16:SER:O	1:A:17:LEU:HG	2.19	0.43
1:A:39:VAL:HG22	1:A:207:ASN:O	2.17	0.43
1:A:86:ALA:O	1:A:89:LEU:HB2	2.18	0.43
1:A:120:VAL:HG13	1:A:161:PHE:HB2	2.01	0.43
1:A:184:LEU:O	1:A:191:GLN:NE2	2.48	0.43
1:A:285:GLU:HA	1:A:285:GLU:C	2.39	0.43
1:A:514:ASN:ND2	1:A:518:GLN:HE21	2.17	0.43
1:A:2586:PHE:O	1:A:2590:ILE:HG23	2.18	0.43
1:A:2732:ARG:HA	1:A:2733:ILE:CA	2.48	0.43
1:C:223:PHE:CE1	1:C:293:ARG:HB2	2.52	0.43
1:C:249:LYS:HZ3	1:C:267:THR:N	2.16	0.43
1:C:309:ALA:H	1:C:310:THR:HB	1.83	0.43
1:C:2689:GLU:HA	1:C:2692:GLN:HB3	2.00	0.43
1:A:158:GLY:C	1:A:160:TRP:HB3	2.44	0.43
1:A:239:VAL:HB	1:A:283:GLU:HG3	2.00	0.43
1:A:312:HIS:HB2	1:A:356:VAL:HG23	2.01	0.43
1:A:439:GLU:O	1:A:442:ASP:HB3	2.19	0.43
1:A:545:ARG:HG3	1:A:549:PHE:HE2	1.82	0.43
1:A:2341:ILE:O	1:A:2345:ILE:HG22	2.19	0.43
1:B:279:LYS:O	1:B:281:LEU:HD13	2.19	0.43
1:B:481:VAL:CG2	1:B:555:LEU:HD21	2.48	0.43
1:B:2326:ALA:CA	1:B:2329:LYS:CE	2.95	0.43
1:B:2422:TYR:O	1:B:2425:GLU:HB3	2.18	0.43
1:B:2534:CYS:O	1:B:2538:VAL:HG13	2.18	0.43
1:B:2732:ARG:HA	1:B:2733:ILE:CA	2.47	0.43
1:C:484:VAL:HG13	1:C:562:HIS:NE2	2.34	0.43
1:C:2314:TRP:HA	1:C:2317:MET:HG2	1.99	0.43
1:C:2580:ILE:HA	1:C:2583:ASN:OD1	2.18	0.43
1:C:2698:LEU:HD11	1:D:2693:ASN:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2732:ARG:HA	1:C:2733:ILE:CA	2.48	0.43
1:D:65:ARG:CZ	1:D:100:LYS:HD3	2.48	0.43
1:D:70:LYS:O	1:D:74:LYS:HG2	2.19	0.43
1:D:282:TRP:H	1:D:308:LEU:N	2.16	0.43
1:A:494:VAL:O	1:A:497:VAL:HB	2.18	0.43
1:A:2349:GLY:N	1:A:2351:GLN:OE1	2.34	0.43
1:A:2456:SER:CB	1:A:2535:ILE:HG22	2.49	0.43
1:A:2534:CYS:O	1:A:2538:VAL:HG13	2.18	0.43
1:A:2698:LEU:HD11	1:B:2693:ASN:HB3	2.01	0.43
1:B:11:ILE:HG12	1:B:115:ILE:HG13	2.00	0.43
1:B:16:SER:O	1:B:17:LEU:HG	2.19	0.43
1:B:134:VAL:HA	1:B:135:ASN:HA	1.87	0.43
1:B:134:VAL:HG12	1:B:138:LEU:HD22	2.00	0.43
1:B:317:GLU:C	1:B:421:SER:HB3	2.43	0.43
1:B:418:ILE:HG23	1:B:420:THR:OG1	2.19	0.43
1:B:477:LEU:CG	1:B:555:LEU:HD22	2.47	0.43
1:B:2296:PRO:O	1:B:2297:PHE:CG	2.71	0.43
1:B:2461:LEU:HB3	1:C:2411:PHE:HE2	1.83	0.43
1:C:134:VAL:HB	1:C:135:ASN:HB3	1.99	0.43
1:C:285:GLU:HA	1:C:285:GLU:C	2.39	0.43
1:C:682:THR:CA	1:C:683:GLY:CA	2.97	0.43
1:D:120:VAL:HG11	1:D:160:TRP:CE3	2.53	0.43
1:D:160:TRP:CD1	1:D:187:VAL:HG13	2.54	0.43
1:D:253:CYS:O	1:D:281:LEU:HD22	2.18	0.43
1:D:392:HIS:HD2	1:D:395:THR:HG22	1.80	0.43
1:D:2324:VAL:C	1:D:2326:ALA:N	2.74	0.43
1:A:32:LEU:HB2	1:A:33:VAL:C	2.44	0.43
1:A:484:VAL:HG13	1:A:562:HIS:NE2	2.34	0.43
1:A:2195:GLN:CA	1:A:2196:ILE:CA	2.97	0.43
1:A:2314:TRP:HA	1:A:2317:MET:HG2	1.99	0.43
1:B:9:LEU:HD23	1:B:226:TRP:CE2	2.54	0.43
1:B:32:LEU:HB2	1:B:33:VAL:C	2.44	0.43
1:B:351:MET:HE3	1:B:421:SER:HB2	2.01	0.43
1:B:2326:ALA:CA	1:B:2329:LYS:HE2	2.27	0.43
1:C:131:TYR:CZ	1:C:132:LEU:HG	2.53	0.43
1:C:2341:ILE:O	1:C:2345:ILE:HG22	2.18	0.43
1:C:2432:LYS:HA	1:C:2435:THR:HG21	2.00	0.43
1:C:2534:CYS:O	1:C:2538:VAL:HG13	2.18	0.43
1:D:39:VAL:HG22	1:D:207:ASN:O	2.18	0.43
1:D:67:SER:OG	1:D:68:ALA:N	2.52	0.43
1:D:134:VAL:HG12	1:D:138:LEU:HD22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:405:PRO:HD2	1:D:417:LYS:HD2	2.00	0.43
1:D:418:ILE:HG23	1:D:420:THR:OG1	2.19	0.43
1:D:524:GLN:HA	1:D:527:PHE:CB	2.48	0.43
1:D:526:PRO:O	1:D:532:ASP:HB2	2.18	0.43
1:D:554:ARG:O	1:D:558:ARG:N	2.51	0.43
1:A:117:TYR:CD2	1:A:170:ARG:HD3	2.53	0.43
1:A:193:LEU:HD13	1:A:209:VAL:HG13	2.01	0.43
1:A:482:TYR:HB2	1:A:488:THR:HA	2.00	0.43
1:A:2523:ASP:HB2	1:D:2552:VAL:HB	2.01	0.43
1:A:2560:GLU:OE1	1:A:2560:GLU:N	2.44	0.43
1:B:70:LYS:O	1:B:74:LYS:HG2	2.19	0.43
1:B:134:VAL:HA	1:B:137:ARG:HH12	1.82	0.43
1:B:136:LYS:HB3	1:B:188:ASN:HD22	1.84	0.43
1:B:246:GLU:O	1:B:248:GLU:N	2.44	0.43
1:B:405:PRO:HD2	1:B:417:LYS:HA	2.01	0.43
1:B:484:VAL:HA	1:B:506:ARG:HH11	1.83	0.43
1:B:2195:GLN:CA	1:B:2196:ILE:CA	2.96	0.43
1:C:16:SER:HB3	1:C:57:LEU:HA	2.01	0.43
1:C:32:LEU:HB2	1:C:33:VAL:C	2.44	0.43
1:C:97:ASP:O	1:C:100:LYS:HB2	2.19	0.43
1:C:103:ASN:HA	1:C:106:GLU:CD	2.44	0.43
1:C:160:TRP:CD1	1:C:187:VAL:HG13	2.54	0.43
1:C:184:LEU:O	1:C:191:GLN:NE2	2.48	0.43
1:C:193:LEU:HD13	1:C:209:VAL:HG13	2.01	0.43
1:C:279:LYS:O	1:C:281:LEU:HD13	2.18	0.43
1:C:465:ILE:HD11	1:C:470:ARG:NH2	2.33	0.43
1:C:2368:PHE:O	1:C:2372:PHE:HD2	2.01	0.43
1:C:2552:VAL:HB	1:D:2523:ASP:HB2	2.01	0.43
1:D:9:LEU:HD23	1:D:226:TRP:CE2	2.54	0.43
1:D:136:LYS:HB3	1:D:188:ASN:HD22	1.84	0.43
1:D:2601:GLN:HA	1:D:2604:GLU:OE2	2.19	0.43
1:A:147:MET:HE3	1:A:211:SER:HB3	2.01	0.43
1:A:202:ASP:OD1	1:A:203:ASN:N	2.52	0.43
1:B:65:ARG:CZ	1:B:100:LYS:HD3	2.49	0.43
1:B:120:VAL:HG11	1:B:160:TRP:CE3	2.53	0.43
1:B:134:VAL:HB	1:B:135:ASN:HB3	2.00	0.43
1:B:160:TRP:CD1	1:B:187:VAL:HG13	2.54	0.43
1:B:208:GLU:HG2	1:B:209:VAL:N	2.27	0.43
1:B:219:LYS:HA	1:B:219:LYS:HD3	1.79	0.43
1:B:482:TYR:HB2	1:B:488:THR:HA	2.01	0.43
1:B:494:VAL:O	1:B:497:VAL:HB	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2368:PHE:O	1:B:2372:PHE:HD2	2.01	0.43
1:C:86:ALA:O	1:C:89:LEU:HB2	2.18	0.43
1:C:216:THR:HG22	1:C:217:SER:O	2.19	0.43
1:C:244:HIS:HA	1:C:430:PHE:HA	2.01	0.43
1:C:2364:ASN:HA	1:C:2367:ILE:HG22	2.01	0.43
1:C:2456:SER:CB	1:C:2535:ILE:HG22	2.48	0.43
1:D:216:THR:HG22	1:D:217:SER:O	2.18	0.43
1:D:743:MET:CA	1:D:744:CYS:CA	2.97	0.43
1:D:2349:GLY:N	1:D:2351:GLN:OE1	2.36	0.43
1:D:2456:SER:CB	1:D:2535:ILE:HG22	2.49	0.43
1:A:45:ASP:HB3	1:A:48:ASN:H	1.83	0.43
1:A:231:ASP:O	1:A:233:ILE:HG23	2.19	0.43
1:A:2319:ILE:HB	1:A:2323:ILE:HD13	2.01	0.43
1:A:2437:ASN:CB	1:A:2592:THR:CB	2.96	0.43
1:A:2580:ILE:HG23	1:A:2584:LEU:HD13	2.00	0.43
1:B:20:GLU:OE1	1:B:46:LEU:HG	2.19	0.43
1:B:45:ASP:N	1:B:48:ASN:O	2.52	0.43
1:B:554:ARG:O	1:B:558:ARG:N	2.51	0.43
1:B:2364:ASN:HA	1:B:2367:ILE:HG22	2.01	0.43
1:B:2540:SER:O	1:B:2544:ARG:NH2	2.51	0.43
1:D:279:LYS:O	1:D:281:LEU:HD13	2.19	0.43
1:A:37:CYS:HB2	1:A:150:THR:HA	1.99	0.42
1:A:97:ASP:C	1:A:101:LYS:HZ3	2.27	0.42
1:A:103:ASN:HA	1:A:106:GLU:CD	2.44	0.42
1:A:120:VAL:HG11	1:A:160:TRP:CE3	2.53	0.42
1:A:140:ALA:HA	1:A:147:MET:HA	2.00	0.42
1:A:216:THR:HG22	1:A:217:SER:O	2.19	0.42
1:A:256:HIS:CE1	1:A:257:ARG:HG3	2.54	0.42
1:A:382:VAL:HA	1:A:383:PRO:HD2	1.92	0.42
1:A:517:LYS:HE3	1:A:517:LYS:HB3	1.74	0.42
1:A:682:THR:CA	1:A:683:GLY:CA	2.97	0.42
1:A:2411:PHE:HE2	1:D:2461:LEU:HB3	1.84	0.42
1:B:158:GLY:C	1:B:160:TRP:HB3	2.44	0.42
1:B:193:LEU:HD13	1:B:209:VAL:HG13	2.00	0.42
1:B:517:LYS:HE3	1:B:517:LYS:HB3	1.74	0.42
1:B:2319:ILE:HB	1:B:2323:ILE:HD13	2.01	0.42
1:C:45:ASP:HB3	1:C:48:ASN:H	1.83	0.42
1:C:517:LYS:HE3	1:C:517:LYS:HB3	1.75	0.42
1:D:134:VAL:HB	1:D:135:ASN:HB3	2.00	0.42
1:D:184:LEU:O	1:D:191:GLN:NE2	2.46	0.42
1:A:131:TYR:CZ	1:A:132:LEU:HG	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:309:ALA:H	1:A:310:THR:HB	1.83	0.42
1:A:2571:LEU:HD23	1:B:2543:LEU:HD12	2.00	0.42
1:A:2580:ILE:HA	1:A:2583:ASN:OD1	2.18	0.42
1:B:143:GLU:HG3	1:B:144:LYS:N	2.33	0.42
1:B:515:ILE:HB	1:B:573:TYR:CE2	2.53	0.42
1:B:2583:ASN:HA	1:C:2586:PHE:CE1	2.54	0.42
1:C:16:SER:O	1:C:17:LEU:HG	2.19	0.42
1:C:65:ARG:CZ	1:C:100:LYS:HD3	2.49	0.42
1:C:66:TYR:CZ	1:C:160:TRP:HB2	2.54	0.42
1:C:80:ALA:H	1:C:82:SER:HB2	1.84	0.42
1:C:178:ILE:HB	1:D:376:ARG:NH1	2.32	0.42
1:C:233:ILE:H	1:C:384:ARG:HE	1.66	0.42
1:C:256:HIS:CE1	1:C:257:ARG:HG3	2.54	0.42
1:C:511:ARG:HD2	1:C:515:ILE:HG12	2.00	0.42
1:C:515:ILE:HB	1:C:573:TYR:CE2	2.54	0.42
1:C:2579:ILE:O	1:C:2583:ASN:ND2	2.52	0.42
1:C:2589:ILE:O	1:C:2592:THR:OG1	2.27	0.42
1:D:97:ASP:O	1:D:100:LYS:HB2	2.19	0.42
1:D:117:TYR:CD1	1:D:176:VAL:N	2.84	0.42
1:D:143:GLU:HG3	1:D:144:LYS:N	2.33	0.42
1:D:226:TRP:N	1:D:226:TRP:CD1	2.84	0.42
1:D:399:VAL:HA	1:D:420:THR:HB	2.00	0.42
1:D:2368:PHE:O	1:D:2372:PHE:HD2	2.02	0.42
1:D:2443:LEU:O	1:D:2446:ALA:HB3	2.20	0.42
1:A:116:GLN:HA	1:A:175:SER:HA	2.00	0.42
1:A:542:GLY:HA2	1:A:549:PHE:CZ	2.54	0.42
1:A:2579:ILE:O	1:A:2583:ASN:ND2	2.52	0.42
1:C:71:GLN:HA	1:C:74:LYS:HG2	2.01	0.42
1:C:158:GLY:C	1:C:160:TRP:HB3	2.44	0.42
1:C:197:SER:HA	1:C:207:ASN:ND2	2.34	0.42
1:C:317:GLU:C	1:C:421:SER:HB3	2.43	0.42
1:C:425:GLU:O	1:C:426:ASP:HB2	2.20	0.42
1:C:2319:ILE:HB	1:C:2323:ILE:HD13	2.01	0.42
1:D:52:LYS:O	1:D:55:ASP:N	2.48	0.42
1:D:80:ALA:H	1:D:82:SER:HB2	1.85	0.42
1:A:66:TYR:CZ	1:A:160:TRP:HB2	2.54	0.42
1:A:452:VAL:HG13	1:A:453:LEU:HD12	2.01	0.42
1:A:572:GLU:OE1	1:A:572:GLU:N	2.38	0.42
1:A:2459:GLY:O	1:A:2461:LEU:N	2.44	0.42
1:B:97:ASP:O	1:B:100:LYS:HB2	2.19	0.42
1:B:145:ASN:HB2	1:B:212:VAL:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:202:ASP:OD1	1:B:203:ASN:N	2.52	0.42
1:B:216:THR:HG22	1:B:217:SER:O	2.18	0.42
1:B:359:PRO:CB	1:B:360:GLU:HA	2.48	0.42
1:C:247:GLN:N	1:C:428:GLU:OE2	2.52	0.42
1:C:439:GLU:O	1:C:442:ASP:HB3	2.19	0.42
1:C:538:LEU:HD12	1:C:539:GLU:N	2.35	0.42
1:C:2586:PHE:O	1:C:2590:ILE:HG23	2.18	0.42
1:D:116:GLN:HA	1:D:175:SER:HA	2.00	0.42
1:D:134:VAL:HA	1:D:137:ARG:HH22	1.84	0.42
1:D:197:SER:HA	1:D:207:ASN:ND2	2.33	0.42
1:D:494:VAL:O	1:D:497:VAL:HB	2.19	0.42
1:D:682:THR:CA	1:D:683:GLY:CA	2.96	0.42
1:A:69:GLN:NE2	1:A:100:LYS:HG2	2.34	0.42
1:A:515:ILE:HB	1:A:573:TYR:CE2	2.54	0.42
1:A:524:GLN:HA	1:A:527:PHE:CB	2.48	0.42
1:B:80:ALA:H	1:B:82:SER:HB2	1.85	0.42
1:B:484:VAL:HG13	1:B:562:HIS:NE2	2.35	0.42
1:B:2456:SER:CB	1:B:2535:ILE:HG22	2.49	0.42
1:B:2571:LEU:HD23	1:C:2543:LEU:HD12	2.01	0.42
1:C:38:VAL:HB	1:C:39:VAL:H	1.60	0.42
1:C:120:VAL:HG13	1:C:161:PHE:HB2	2.01	0.42
1:C:147:MET:HE3	1:C:211:SER:HB3	2.01	0.42
1:C:312:HIS:HB2	1:C:356:VAL:HG23	2.01	0.42
1:C:477:LEU:CG	1:C:555:LEU:HD22	2.47	0.42
1:C:494:VAL:O	1:C:497:VAL:HB	2.18	0.42
1:C:2532:LEU:HD23	1:C:2532:LEU:HA	1.86	0.42
1:D:131:TYR:CZ	1:D:132:LEU:HG	2.54	0.42
1:D:158:GLY:C	1:D:160:TRP:HB3	2.44	0.42
1:D:481:VAL:CG2	1:D:555:LEU:HD21	2.48	0.42
1:D:484:VAL:HG13	1:D:562:HIS:NE2	2.35	0.42
1:D:2460:TYR:HA	1:D:2566:ARG:CZ	2.48	0.42
1:D:2552:VAL:CA	1:D:2553:LEU:HB2	2.38	0.42
1:D:2563:PHE:HD1	1:D:2563:PHE:HA	1.73	0.42
1:A:11:ILE:HG12	1:A:115:ILE:HG13	2.02	0.42
1:A:282:TRP:H	1:A:308:LEU:N	2.16	0.42
1:A:481:VAL:CG2	1:A:555:LEU:HD21	2.49	0.42
1:A:2321:LEU:O	1:A:2325:ILE:HD12	2.20	0.42
1:A:2586:PHE:CE1	1:D:2583:ASN:HA	2.54	0.42
1:B:425:GLU:O	1:B:426:ASP:HB2	2.20	0.42
1:B:489:ASN:HA	1:B:490:SER:HA	1.76	0.42
1:B:2355:PHE:O	1:B:2358:GLY:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2552:VAL:HB	1:C:2523:ASP:HB2	2.01	0.42
1:C:136:LYS:HB3	1:C:136:LYS:HE3	1.82	0.42
1:C:140:ALA:HA	1:C:147:MET:HA	2.00	0.42
1:C:231:ASP:O	1:C:233:ILE:HG23	2.20	0.42
1:C:359:PRO:CB	1:C:360:GLU:HA	2.48	0.42
1:C:743:MET:CA	1:C:744:CYS:CA	2.98	0.42
1:C:2195:GLN:CA	1:C:2196:ILE:CA	2.96	0.42
1:C:2290:LEU:HA	1:C:2293:PHE:CD2	2.54	0.42
1:D:405:PRO:HD2	1:D:417:LYS:HA	2.01	0.42
1:D:2195:GLN:CA	1:D:2196:ILE:CA	2.97	0.42
1:D:2327:LEU:O	1:D:2330:PRO:HD2	2.20	0.42
1:A:351:MET:HE3	1:A:421:SER:HB2	2.01	0.42
1:A:2364:ASN:HA	1:A:2367:ILE:HG22	2.01	0.42
1:B:16:SER:HB3	1:B:57:LEU:HA	2.02	0.42
1:B:116:GLN:N	1:B:119:ASN:OD1	2.39	0.42
1:B:134:VAL:HA	1:B:137:ARG:HH22	1.84	0.42
1:B:256:HIS:CE1	1:B:257:ARG:HG3	2.54	0.42
1:B:743:MET:CA	1:B:744:CYS:CA	2.97	0.42
1:B:2552:VAL:CA	1:B:2553:LEU:HB2	2.38	0.42
1:B:2601:GLN:HA	1:B:2604:GLU:OE2	2.19	0.42
1:B:2728:LYS:O	1:B:2732:ARG:N	2.42	0.42
1:C:116:GLN:HA	1:C:175:SER:HA	2.00	0.42
1:C:266:THR:HA	1:C:415:MET:SD	2.60	0.42
1:C:471:ARG:O	1:C:475:LYS:HB2	2.20	0.42
1:C:481:VAL:CG2	1:C:555:LEU:HD21	2.49	0.42
1:C:2552:VAL:CA	1:C:2553:LEU:HB2	2.38	0.42
1:D:16:SER:O	1:D:17:LEU:HG	2.19	0.42
1:D:239:VAL:HB	1:D:283:GLU:HG3	2.02	0.42
1:D:244:HIS:HE1	1:D:428:GLU:O	2.03	0.42
1:D:256:HIS:CE1	1:D:257:ARG:HG3	2.54	0.42
1:D:2364:ASN:HA	1:D:2367:ILE:HG22	2.01	0.42
1:D:2541:HIS:HA	1:D:2544:ARG:CG	2.50	0.42
1:D:2555:LYS:HZ2	1:D:2562:LEU:CD1	2.25	0.42
1:D:2724:THR:HG23	1:D:2727:ARG:HE	1.85	0.42
1:A:16:SER:HB3	1:A:57:LEU:HA	2.01	0.42
1:A:65:ARG:CZ	1:A:100:LYS:HD3	2.49	0.42
1:A:80:ALA:HB3	1:A:81:ASN:C	2.45	0.42
1:A:160:TRP:CD1	1:A:187:VAL:HG13	2.54	0.42
1:A:244:HIS:HA	1:A:430:PHE:HA	2.01	0.42
1:A:743:MET:CA	1:A:744:CYS:CA	2.98	0.42
1:A:2290:LEU:HA	1:A:2293:PHE:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2355:PHE:O	1:A:2358:GLY:N	2.51	0.42
1:A:2362:VAL:O	1:A:2365:LYS:HB3	2.20	0.42
1:B:197:SER:HA	1:B:207:ASN:ND2	2.34	0.42
1:B:244:HIS:ND1	1:B:429:ALA:O	2.53	0.42
1:B:565:GLN:O	1:B:570:ASN:ND2	2.52	0.42
1:C:2571:LEU:HD23	1:D:2543:LEU:HD12	2.00	0.42
1:D:140:ALA:HA	1:D:147:MET:HA	2.00	0.42
1:D:351:MET:HE3	1:D:421:SER:HB2	2.00	0.42
1:A:97:ASP:O	1:A:100:LYS:HB2	2.19	0.42
1:A:137:ARG:HH21	1:A:138:LEU:HD13	1.85	0.42
1:A:221:VAL:HB	1:A:222:LEU:H	1.56	0.42
1:A:266:THR:HA	1:A:415:MET:SD	2.60	0.42
1:A:485:THR:HG23	1:A:487:GLY:N	2.35	0.42
1:A:2443:LEU:O	1:A:2446:ALA:HB3	2.20	0.42
1:B:25:GLY:HA2	1:B:43:ALA:HB2	2.02	0.42
1:B:542:GLY:HA2	1:B:549:PHE:CZ	2.55	0.42
1:B:2724:THR:HG23	1:B:2727:ARG:NE	2.35	0.42
1:C:134:VAL:HA	1:C:135:ASN:HA	1.86	0.42
1:C:219:LYS:HD3	1:C:219:LYS:HA	1.80	0.42
1:C:2540:SER:HG	1:C:2541:HIS:H	1.68	0.42
1:D:45:ASP:N	1:D:48:ASN:O	2.52	0.42
1:D:174:ASP:N	1:D:174:ASP:OD1	2.51	0.42
1:D:202:ASP:OD1	1:D:203:ASN:N	2.52	0.42
1:D:2314:TRP:HA	1:D:2317:MET:HG2	2.02	0.42
1:A:60:LEU:HD23	1:A:123:LEU:HD13	2.02	0.42
1:A:247:GLN:N	1:A:428:GLU:OE2	2.52	0.42
1:A:538:LEU:HD12	1:A:539:GLU:N	2.35	0.42
1:A:2437:ASN:HB2	1:A:2592:THR:HB	2.02	0.42
1:B:60:LEU:HD23	1:B:123:LEU:HD13	2.01	0.42
1:B:174:ASP:OD1	1:B:174:ASP:N	2.51	0.42
1:B:280:ALA:HB1	1:B:282:TRP:HE3	1.85	0.42
1:B:452:VAL:HG13	1:B:453:LEU:HD12	2.02	0.42
1:B:554:ARG:O	1:B:557:TYR:HB3	2.20	0.42
1:B:556:CYS:O	1:B:559:VAL:HG22	2.20	0.42
1:B:2314:TRP:HA	1:B:2317:MET:HG2	2.02	0.42
1:C:485:THR:HG23	1:C:487:GLY:N	2.35	0.42
1:D:60:LEU:HD23	1:D:123:LEU:HD13	2.01	0.42
1:D:145:ASN:HB2	1:D:212:VAL:HG23	2.02	0.42
1:A:477:LEU:CG	1:A:555:LEU:HD22	2.47	0.41
1:A:2461:LEU:HD12	1:B:2411:PHE:HE2	1.85	0.41
1:A:2541:HIS:HA	1:A:2544:ARG:CG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2552:VAL:HG12	1:A:2554:ARG:HG3	2.02	0.41
1:B:392:HIS:CD2	1:B:395:THR:H	2.38	0.41
1:B:446:ALA:O	1:B:449:ALA:N	2.53	0.41
1:B:2290:LEU:HA	1:B:2293:PHE:CD2	2.55	0.41
1:B:2444:THR:O	1:B:2447:LEU:HB3	2.20	0.41
1:C:11:ILE:HG12	1:C:115:ILE:HG13	2.02	0.41
1:C:498:VAL:HA	1:C:501:LYS:HD2	2.02	0.41
1:C:2321:LEU:O	1:C:2325:ILE:HD12	2.20	0.41
1:C:2728:LYS:O	1:C:2732:ARG:N	2.41	0.41
1:D:117:TYR:CD2	1:D:176:VAL:HG22	2.55	0.41
1:D:359:PRO:CB	1:D:360:GLU:HA	2.48	0.41
1:D:482:TYR:HB2	1:D:488:THR:HA	2.01	0.41
1:D:2465:ASP:OD1	1:D:2562:LEU:HA	2.20	0.41
1:A:65:ARG:HD3	1:A:69:GLN:OE1	2.20	0.41
1:A:180:ASP:OD1	1:A:180:ASP:N	2.53	0.41
1:A:312:HIS:HB3	1:A:313:TYR:H	1.47	0.41
1:A:392:HIS:CD2	1:A:395:THR:H	2.38	0.41
1:A:430:PHE:HB2	1:A:431:ALA:H	1.45	0.41
1:A:471:ARG:O	1:A:475:LYS:HB2	2.20	0.41
1:B:135:ASN:HD21	1:B:140:ALA:HA	1.85	0.41
1:B:239:VAL:HB	1:B:283:GLU:HG3	2.02	0.41
1:B:474:THR:HB	1:B:552:ILE:HD11	2.03	0.41
1:B:2327:LEU:O	1:B:2330:PRO:HD2	2.20	0.41
1:C:202:ASP:OD1	1:C:203:ASN:N	2.52	0.41
1:C:231:ASP:OD1	1:C:232:ASP:N	2.52	0.41
1:C:351:MET:HE3	1:C:421:SER:HB2	2.02	0.41
1:C:431:ALA:HB1	1:C:432:ILE:HD12	2.02	0.41
1:C:2541:HIS:HA	1:C:2544:ARG:CG	2.50	0.41
1:C:2543:LEU:HD23	1:C:2543:LEU:HA	1.82	0.41
1:D:71:GLN:HA	1:D:74:LYS:NZ	2.33	0.41
1:D:425:GLU:O	1:D:426:ASP:HB2	2.20	0.41
1:D:2288:ASN:OD1	1:D:2289:LEU:N	2.53	0.41
1:D:2337:ILE:HG23	1:D:2338:ALA:N	2.35	0.41
1:A:2273:MET:O	1:A:2276:TRP:HB2	2.20	0.41
1:A:2411:PHE:CE2	1:D:2461:LEU:HD12	2.55	0.41
1:B:117:TYR:CD2	1:B:176:VAL:HG22	2.55	0.41
1:B:391:ARG:HB2	1:B:398:TRP:CE3	2.56	0.41
1:B:514:ASN:C	1:B:518:GLN:NE2	2.78	0.41
1:C:10:HIS:HE2	1:C:177:VAL:HA	1.86	0.41
1:C:65:ARG:HD3	1:C:69:GLN:OE1	2.20	0.41
1:C:137:ARG:HH21	1:C:138:LEU:HD13	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:309:ALA:N	1:C:310:THR:HA	2.35	0.41
1:D:10:HIS:HE2	1:D:177:VAL:HA	1.85	0.41
1:D:86:ALA:O	1:D:89:LEU:HB2	2.20	0.41
1:D:392:HIS:CD2	1:D:394:CYS:HG	2.17	0.41
1:A:143:GLU:HG3	1:A:144:LYS:N	2.33	0.41
1:A:517:LYS:O	1:A:520:PHE:HB3	2.21	0.41
1:A:2327:LEU:O	1:A:2330:PRO:HD2	2.20	0.41
1:A:2543:LEU:HD12	1:D:2571:LEU:HD23	2.01	0.41
1:A:2731:GLN:HB3	1:B:393:LEU:HD23	2.02	0.41
1:B:247:GLN:N	1:B:428:GLU:OE2	2.54	0.41
1:B:2362:VAL:O	1:B:2365:LYS:HB3	2.19	0.41
1:B:2443:LEU:O	1:B:2446:ALA:HB3	2.20	0.41
1:B:2543:LEU:HA	1:B:2543:LEU:HD23	1.82	0.41
1:C:135:ASN:HD21	1:C:140:ALA:HA	1.86	0.41
1:C:418:ILE:HG22	1:C:419:GLY:H	1.83	0.41
1:C:452:VAL:HG13	1:C:453:LEU:HD12	2.02	0.41
1:C:554:ARG:O	1:C:557:TYR:HB3	2.20	0.41
1:C:2443:LEU:O	1:C:2446:ALA:HB3	2.20	0.41
1:D:13:ASP:OD1	1:D:225:LYS:HD3	2.20	0.41
1:D:38:VAL:HB	1:D:39:VAL:H	1.59	0.41
1:D:65:ARG:HD3	1:D:69:GLN:OE1	2.20	0.41
1:D:446:ALA:O	1:D:449:ALA:N	2.54	0.41
1:D:542:GLY:HA2	1:D:549:PHE:CZ	2.55	0.41
1:D:2589:ILE:O	1:D:2592:THR:OG1	2.29	0.41
1:D:2724:THR:HG23	1:D:2727:ARG:NE	2.35	0.41
1:A:71:GLN:HA	1:A:74:LYS:HG2	2.01	0.41
1:A:249:LYS:HZ3	1:A:267:THR:N	2.19	0.41
1:B:45:ASP:HB3	1:B:48:ASN:H	1.84	0.41
1:B:86:ALA:O	1:B:89:LEU:HB2	2.20	0.41
1:B:244:HIS:HE1	1:B:428:GLU:O	2.03	0.41
1:B:481:VAL:HG23	1:B:555:LEU:HD21	2.02	0.41
1:B:2717:SER:HA	1:B:2720:LYS:HG2	2.02	0.41
1:C:180:ASP:OD1	1:C:180:ASP:N	2.53	0.41
1:C:244:HIS:ND1	1:C:429:ALA:O	2.53	0.41
1:C:439:GLU:C	1:C:442:ASP:H	2.29	0.41
1:C:557:TYR:HA	1:C:560:LEU:HG	2.03	0.41
1:C:2437:ASN:CB	1:C:2592:THR:CB	2.96	0.41
1:D:16:SER:HB3	1:D:57:LEU:HA	2.02	0.41
1:D:20:GLU:OE1	1:D:46:LEU:HG	2.19	0.41
1:D:44:GLY:CA	1:D:50:PRO:HD3	2.51	0.41
1:D:287:VAL:HB	1:D:289:HIS:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:420:THR:C	1:D:422:PRO:HD3	2.46	0.41
1:D:554:ARG:O	1:D:557:TYR:HB3	2.20	0.41
1:D:576:LYS:HB3	1:D:580:PHE:CZ	2.55	0.41
1:D:2273:MET:O	1:D:2276:TRP:HB2	2.21	0.41
1:D:2290:LEU:HA	1:D:2293:PHE:CD2	2.55	0.41
1:D:2455:PHE:CE1	1:D:2569:TYR:CZ	3.09	0.41
1:D:2552:VAL:HG12	1:D:2554:ARG:HG3	2.02	0.41
1:A:67:SER:OG	1:A:68:ALA:N	2.51	0.41
1:A:174:ASP:N	1:A:174:ASP:OD1	2.51	0.41
1:A:371:ASP:N	1:A:389:ARG:O	2.49	0.41
1:A:446:ALA:O	1:A:449:ALA:N	2.53	0.41
1:A:554:ARG:O	1:A:557:TYR:HB3	2.20	0.41
1:A:576:LYS:HB3	1:A:580:PHE:CZ	2.56	0.41
1:A:2552:VAL:HB	1:B:2523:ASP:HB2	2.01	0.41
1:A:2703:GLU:O	1:A:2706:MET:HG2	2.20	0.41
1:B:10:HIS:HE2	1:B:177:VAL:HA	1.85	0.41
1:B:69:GLN:NE2	1:B:100:LYS:HG2	2.33	0.41
1:B:400:HIS:HB3	1:B:401:SER:H	1.68	0.41
1:B:430:PHE:HB2	1:B:431:ALA:H	1.43	0.41
1:B:524:GLN:HA	1:B:527:PHE:CB	2.48	0.41
1:B:538:LEU:HD12	1:B:539:GLU:N	2.36	0.41
1:B:2541:HIS:HA	1:B:2544:ARG:CG	2.51	0.41
1:C:117:TYR:CD2	1:C:176:VAL:HG22	2.55	0.41
1:C:371:ASP:N	1:C:389:ARG:O	2.49	0.41
1:C:533:GLY:HA2	1:C:537:ARG:CB	2.47	0.41
1:C:542:GLY:HA2	1:C:549:PHE:CZ	2.55	0.41
1:C:2581:VAL:HG13	1:C:2582:LEU:HD12	2.03	0.41
1:D:25:GLY:HA2	1:D:43:ALA:HB2	2.02	0.41
1:D:71:GLN:HA	1:D:74:LYS:HG2	2.03	0.41
1:D:180:ASP:OD1	1:D:180:ASP:N	2.53	0.41
1:D:392:HIS:CD2	1:D:395:THR:H	2.38	0.41
1:D:485:THR:HG23	1:D:487:GLY:N	2.36	0.41
1:A:264:LEU:HB3	1:A:415:MET:HE2	2.03	0.41
1:A:282:TRP:HH2	1:A:443:LEU:HD22	1.85	0.41
1:A:400:HIS:HB3	1:A:401:SER:H	1.69	0.41
1:A:505:GLU:N	1:A:505:GLU:OE1	2.53	0.41
1:A:565:GLN:O	1:A:566:ASP:HB2	2.20	0.41
1:A:2337:ILE:HG23	1:A:2338:ALA:N	2.35	0.41
1:A:2465:ASP:OD1	1:A:2562:LEU:HA	2.21	0.41
1:A:2601:GLN:HA	1:A:2604:GLU:OE2	2.21	0.41
1:B:65:ARG:HD3	1:B:69:GLN:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:80:ALA:HB3	1:B:81:ASN:HB2	2.03	0.41
1:B:314:LEU:HA	1:B:366:SER:CB	2.51	0.41
1:B:439:GLU:C	1:B:442:ASP:H	2.29	0.41
1:B:2598:SER:HA	1:B:2601:GLN:HG2	2.02	0.41
1:C:80:ALA:H	1:C:82:SER:N	2.19	0.41
1:C:124:LEU:HG	1:C:125:HIS:H	1.85	0.41
1:C:565:GLN:O	1:C:566:ASP:HB2	2.20	0.41
1:C:2274:SER:CB	1:C:2339:SER:HB3	2.44	0.41
1:D:45:ASP:HB3	1:D:48:ASN:H	1.84	0.41
1:D:77:LYS:H	1:D:78:PRO:HD2	1.85	0.41
1:D:244:HIS:ND1	1:D:429:ALA:O	2.53	0.41
1:D:501:LYS:HB2	1:D:502:PRO:HD3	2.03	0.41
1:A:20:GLU:OE1	1:A:46:LEU:HG	2.20	0.41
1:A:77:LYS:H	1:A:78:PRO:HD2	1.85	0.41
1:A:311:GLY:HA2	1:A:359:PRO:CD	2.48	0.41
1:A:2432:LYS:HA	1:A:2435:THR:HG21	2.00	0.41
1:A:2544:ARG:HD2	1:D:2547:GLY:H	1.86	0.41
1:A:2555:LYS:N	1:A:2556:PRO:HD3	2.36	0.41
1:B:21:GLY:N	1:B:24:ASN:OD1	2.54	0.41
1:B:505:GLU:OE1	1:B:505:GLU:N	2.53	0.41
1:B:2531:LEU:HA	1:B:2534:CYS:SG	2.61	0.41
1:B:2546:GLY:HA2	1:B:2547:GLY:HA3	1.86	0.41
1:B:2724:THR:HG23	1:B:2727:ARG:HE	1.85	0.41
1:C:147:MET:C	1:C:210:ASN:HD21	2.26	0.41
1:C:264:LEU:HB3	1:C:415:MET:HE2	2.03	0.41
1:C:392:HIS:CD2	1:C:395:THR:H	2.38	0.41
1:C:400:HIS:O	1:C:420:THR:OG1	2.36	0.41
1:C:2281:PHE:CE2	1:C:2372:PHE:HE1	2.39	0.41
1:C:2327:LEU:O	1:C:2330:PRO:HD2	2.20	0.41
1:C:2362:VAL:O	1:C:2365:LYS:HB3	2.20	0.41
1:C:2555:LYS:HZ2	1:C:2562:LEU:HD21	1.84	0.41
1:C:2555:LYS:N	1:C:2556:PRO:HD3	2.36	0.41
1:C:2601:GLN:HA	1:C:2604:GLU:OE2	2.21	0.41
1:D:405:PRO:HD2	1:D:417:LYS:CD	2.51	0.41
1:D:477:LEU:CG	1:D:555:LEU:HD22	2.47	0.41
1:D:565:GLN:O	1:D:566:ASP:HB2	2.21	0.41
1:A:71:GLN:HA	1:A:74:LYS:NZ	2.33	0.41
1:A:124:LEU:HG	1:A:125:HIS:H	1.85	0.41
1:A:239:VAL:HB	1:A:283:GLU:CA	2.51	0.41
1:A:244:HIS:ND1	1:A:429:ALA:O	2.53	0.41
1:A:309:ALA:N	1:A:310:THR:HA	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:314:LEU:HA	1:A:366:SER:CB	2.51	0.41
1:A:425:GLU:O	1:A:426:ASP:HB2	2.20	0.41
1:A:431:ALA:HB1	1:A:432:ILE:HD12	2.02	0.41
1:A:2543:LEU:HD23	1:A:2543:LEU:HA	1.82	0.41
1:A:2552:VAL:CA	1:A:2553:LEU:HB2	2.38	0.41
1:B:13:ASP:OD1	1:B:225:LYS:HD3	2.20	0.41
1:B:71:GLN:HA	1:B:74:LYS:HG2	2.03	0.41
1:B:80:ALA:H	1:B:82:SER:N	2.19	0.41
1:B:221:VAL:HB	1:B:222:LEU:H	1.56	0.41
1:B:231:ASP:OD1	1:B:232:ASP:N	2.52	0.41
1:B:404:ILE:HB	1:B:417:LYS:HZ2	1.86	0.41
1:B:405:PRO:HD2	1:B:417:LYS:CD	2.51	0.41
1:B:2288:ASN:OD1	1:B:2289:LEU:N	2.54	0.41
1:B:2321:LEU:O	1:B:2325:ILE:HD12	2.21	0.41
1:B:2337:ILE:HG23	1:B:2338:ALA:N	2.35	0.41
1:B:2455:PHE:CE1	1:B:2569:TYR:CZ	3.09	0.41
1:C:10:HIS:HB2	1:C:115:ILE:HB	2.03	0.41
1:C:91:LYS:HA	1:C:94:HIS:HD2	1.86	0.41
1:C:137:ARG:HB2	1:C:188:ASN:ND2	2.36	0.41
1:C:244:HIS:HE1	1:C:428:GLU:O	2.04	0.41
1:C:505:GLU:OE1	1:C:505:GLU:N	2.53	0.41
1:C:576:LYS:HB3	1:C:580:PHE:CZ	2.55	0.41
1:C:2337:ILE:HG23	1:C:2338:ALA:N	2.35	0.41
1:C:2437:ASN:HB2	1:C:2592:THR:HB	2.02	0.41
1:C:2447:LEU:HD23	1:C:2451:LEU:HD13	2.03	0.41
1:C:2465:ASP:OD1	1:C:2562:LEU:HA	2.21	0.41
1:C:2564:ALA:HA	1:C:2568:ILE:HG12	2.03	0.41
1:C:2724:THR:HG22	1:C:2728:LYS:HE3	2.03	0.41
1:D:79:GLY:HA3	1:D:82:SER:O	2.21	0.41
1:D:80:ALA:HB3	1:D:81:ASN:C	2.45	0.41
1:D:135:ASN:HD21	1:D:140:ALA:HA	1.85	0.41
1:D:147:MET:CE	1:D:211:SER:HB3	2.51	0.41
1:D:239:VAL:HB	1:D:283:GLU:CA	2.50	0.41
1:D:266:THR:O	1:D:267:THR:OG1	2.30	0.41
1:D:282:TRP:HH2	1:D:443:LEU:HD22	1.85	0.41
1:D:282:TRP:N	1:D:308:LEU:H	2.17	0.41
1:D:439:GLU:C	1:D:442:ASP:H	2.29	0.41
1:D:474:THR:HB	1:D:552:ILE:HD11	2.02	0.41
1:D:481:VAL:HG23	1:D:555:LEU:HD21	2.02	0.41
1:D:2313:LEU:HD12	1:D:2316:ALA:HB3	2.03	0.41
1:D:2319:ILE:HB	1:D:2323:ILE:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2598:SER:HA	1:D:2601:GLN:HG2	2.03	0.41
1:D:2705:THR:O	1:D:2709:VAL:HG23	2.21	0.41
1:A:10:HIS:HE2	1:A:177:VAL:HA	1.85	0.41
1:A:48:ASN:HA	1:A:49:PRO:HD2	1.88	0.41
1:A:80:ALA:H	1:A:82:SER:HB2	1.85	0.41
1:A:137:ARG:HG2	1:A:138:LEU:N	2.36	0.41
1:A:266:THR:C	1:A:267:THR:HG1	2.24	0.41
1:A:512:GLU:HB3	1:A:513:GLN:OE1	2.21	0.41
1:A:557:TYR:HA	1:A:560:LEU:HG	2.03	0.41
1:A:2288:ASN:OD1	1:A:2289:LEU:N	2.54	0.41
1:B:249:LYS:HZ3	1:B:267:THR:N	2.19	0.41
1:B:565:GLN:O	1:B:566:ASP:HB2	2.21	0.41
1:B:576:LYS:HB3	1:B:580:PHE:CZ	2.55	0.41
1:B:2461:LEU:HD12	1:C:2411:PHE:CE2	2.56	0.41
1:B:2574:PHE:HA	1:B:2574:PHE:HD1	1.78	0.41
1:C:60:LEU:HD23	1:C:123:LEU:HD13	2.02	0.41
1:C:80:ALA:HB3	1:C:81:ASN:C	2.45	0.41
1:C:282:TRP:HH2	1:C:443:LEU:HD22	1.85	0.41
1:C:314:LEU:HA	1:C:366:SER:CB	2.51	0.41
1:C:2273:MET:O	1:C:2276:TRP:HB2	2.20	0.41
1:C:2444:THR:O	1:C:2447:LEU:HB3	2.21	0.41
1:C:2731:GLN:HB3	1:D:393:LEU:HD23	2.02	0.41
1:D:400:HIS:HB3	1:D:401:SER:H	1.69	0.41
1:D:2444:THR:O	1:D:2447:LEU:HB3	2.20	0.41
1:D:2575:PHE:O	1:D:2579:ILE:HG12	2.21	0.41
1:D:2581:VAL:HG13	1:D:2582:LEU:HD12	2.03	0.41
1:A:117:TYR:CD2	1:A:176:VAL:HG22	2.56	0.40
1:A:286:VAL:N	1:A:303:PHE:CZ	2.86	0.40
1:A:439:GLU:C	1:A:442:ASP:H	2.28	0.40
1:A:514:ASN:C	1:A:518:GLN:NE2	2.78	0.40
1:A:2447:LEU:HD23	1:A:2451:LEU:HD13	2.03	0.40
1:A:2455:PHE:CE1	1:A:2569:TYR:CZ	3.09	0.40
1:A:2531:LEU:HA	1:A:2534:CYS:SG	2.61	0.40
1:A:2567:VAL:HG13	1:A:2568:ILE:N	2.36	0.40
1:B:64:ASN:ND2	1:B:103:ASN:HD21	2.19	0.40
1:B:79:GLY:HA3	1:B:82:SER:O	2.21	0.40
1:B:133:THR:C	1:B:137:ARG:HH12	2.29	0.40
1:B:147:MET:CE	1:B:211:SER:HB3	2.51	0.40
1:B:192:PRO:CG	1:B:213:ASN:HA	2.51	0.40
1:B:266:THR:HA	1:B:415:MET:SD	2.61	0.40
1:B:287:VAL:HB	1:B:289:HIS:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:501:LYS:HB2	1:B:502:PRO:HD3	2.03	0.40
1:B:2579:ILE:O	1:B:2583:ASN:CG	2.64	0.40
1:C:446:ALA:O	1:C:449:ALA:N	2.53	0.40
1:C:514:ASN:C	1:C:518:GLN:NE2	2.78	0.40
1:C:2288:ASN:OD1	1:C:2289:LEU:N	2.54	0.40
1:C:2715:GLN:HE21	1:D:2710:THR:HB	1.86	0.40
1:D:80:ALA:H	1:D:82:SER:N	2.19	0.40
1:D:480:LEU:HA	1:D:483:PHE:HB3	2.03	0.40
1:D:556:CYS:O	1:D:559:VAL:HG22	2.20	0.40
1:A:21:GLY:N	1:A:24:ASN:OD1	2.54	0.40
1:A:80:ALA:HB3	1:A:81:ASN:HB2	2.03	0.40
1:A:186:PRO:CD	1:A:190:GLY:HA3	2.51	0.40
1:B:80:ALA:HB3	1:B:81:ASN:C	2.45	0.40
1:B:312:HIS:NE2	1:B:360:GLU:O	2.55	0.40
1:B:480:LEU:HA	1:B:483:PHE:HB3	2.03	0.40
1:B:2273:MET:O	1:B:2276:TRP:HB2	2.21	0.40
1:B:2579:ILE:O	1:B:2583:ASN:ND2	2.53	0.40
1:B:2581:VAL:HG13	1:B:2582:LEU:HD12	2.03	0.40
1:B:2705:THR:O	1:B:2709:VAL:HG23	2.21	0.40
1:C:20:GLU:OE1	1:C:46:LEU:HG	2.21	0.40
1:C:52:LYS:O	1:C:55:ASP:N	2.47	0.40
1:C:79:GLY:HA3	1:C:82:SER:O	2.21	0.40
1:C:304:ARG:NH2	1:C:362:ASN:O	2.55	0.40
1:C:512:GLU:HB3	1:C:513:GLN:OE1	2.21	0.40
1:D:80:ALA:HB3	1:D:81:ASN:HB2	2.03	0.40
1:D:192:PRO:CG	1:D:213:ASN:HA	2.51	0.40
1:D:314:LEU:HA	1:D:366:SER:CB	2.51	0.40
1:D:538:LEU:HD12	1:D:539:GLU:N	2.36	0.40
1:D:2322:ALA:HA	1:D:2325:ILE:HD12	2.03	0.40
1:D:2425:GLU:CD	1:D:2431:ILE:HG21	2.46	0.40
1:D:2531:LEU:HA	1:D:2534:CYS:SG	2.61	0.40
1:D:2579:ILE:O	1:D:2583:ASN:CG	2.64	0.40
1:D:2579:ILE:O	1:D:2583:ASN:ND2	2.53	0.40
1:D:2717:SER:HA	1:D:2720:LYS:HG2	2.02	0.40
1:A:79:GLY:HA3	1:A:82:SER:O	2.21	0.40
1:A:131:TYR:CG	1:A:132:LEU:N	2.90	0.40
1:A:2281:PHE:CE2	1:A:2372:PHE:HE1	2.39	0.40
1:A:2531:LEU:O	1:A:2535:ILE:HG23	2.21	0.40
1:B:180:ASP:N	1:B:180:ASP:OD1	2.53	0.40
1:B:420:THR:C	1:B:422:PRO:HD3	2.46	0.40
1:C:21:GLY:N	1:C:24:ASN:OD1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:574:ILE:CA	1:C:577:GLN:HB2	2.49	0.40
1:C:2518:GLU:O	1:C:2521:GLU:HB2	2.21	0.40
1:C:2531:LEU:HA	1:C:2534:CYS:SG	2.62	0.40
1:C:2552:VAL:HG12	1:C:2554:ARG:HG3	2.02	0.40
1:C:2703:GLU:O	1:C:2706:MET:HG2	2.20	0.40
1:D:440:VAL:O	1:D:443:LEU:HB2	2.21	0.40
1:D:557:TYR:HA	1:D:560:LEU:HG	2.04	0.40
1:D:567:TYR:CD1	1:D:569:LYS:HB2	2.57	0.40
1:D:2555:LYS:N	1:D:2556:PRO:HD3	2.37	0.40
1:D:2564:ALA:HA	1:D:2568:ILE:HG12	2.02	0.40
1:D:2567:VAL:HG13	1:D:2568:ILE:N	2.36	0.40
1:A:135:ASN:HD21	1:A:140:ALA:HA	1.86	0.40
1:A:474:THR:HB	1:A:552:ILE:HD11	2.04	0.40
1:A:2361:ASN:OD1	1:A:2362:VAL:N	2.55	0.40
1:A:2444:THR:O	1:A:2447:LEU:HB3	2.21	0.40
1:B:22:SER:HA	1:B:23:THR:HA	1.92	0.40
1:B:253:CYS:CA	1:B:262:VAL:HA	2.46	0.40
1:B:287:VAL:HB	1:B:289:HIS:CA	2.52	0.40
1:B:309:ALA:N	1:B:310:THR:HA	2.36	0.40
1:B:557:TYR:HA	1:B:560:LEU:HG	2.04	0.40
1:B:2313:LEU:HD12	1:B:2316:ALA:HB3	2.02	0.40
1:B:2322:ALA:HA	1:B:2325:ILE:HD12	2.03	0.40
1:B:2432:LYS:NZ	1:B:2436:ARG:HD3	2.36	0.40
1:B:2518:GLU:O	1:B:2521:GLU:HB2	2.22	0.40
1:B:2531:LEU:O	1:B:2535:ILE:HG23	2.21	0.40
1:B:2540:SER:HG	1:B:2541:HIS:H	1.70	0.40
1:C:77:LYS:H	1:C:78:PRO:HD2	1.85	0.40
1:C:137:ARG:HG2	1:C:138:LEU:N	2.36	0.40
1:C:174:ASP:N	1:C:174:ASP:OD1	2.51	0.40
1:C:186:PRO:CD	1:C:190:GLY:HA3	2.51	0.40
1:C:420:THR:C	1:C:422:PRO:HD3	2.46	0.40
1:C:2455:PHE:CE1	1:C:2569:TYR:CZ	3.09	0.40
1:C:2461:LEU:HD12	1:D:2411:PHE:HE2	1.86	0.40
1:C:2531:LEU:O	1:C:2535:ILE:HG23	2.21	0.40
1:C:2567:VAL:HG13	1:C:2568:ILE:N	2.36	0.40
1:D:64:ASN:ND2	1:D:103:ASN:HD21	2.19	0.40
1:D:278:SER:OG	1:D:512:GLU:HG3	2.22	0.40
1:D:391:ARG:HB2	1:D:398:TRP:CE3	2.56	0.40
1:D:400:HIS:H	1:D:422:PRO:HG3	1.87	0.40
1:D:517:LYS:O	1:D:520:PHE:HB3	2.21	0.40
1:D:2518:GLU:O	1:D:2521:GLU:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2724:THR:HG23	1:D:2727:ARG:NH2	2.37	0.40
1:A:231:ASP:OD1	1:A:232:ASP:N	2.52	0.40
1:A:484:VAL:HG22	1:A:562:HIS:ND1	2.37	0.40
1:A:2274:SER:CB	1:A:2339:SER:HB3	2.44	0.40
1:A:2532:LEU:HA	1:A:2535:ILE:HG12	2.04	0.40
1:B:10:HIS:HB2	1:B:115:ILE:HB	2.04	0.40
1:B:131:TYR:CG	1:B:132:LEU:N	2.90	0.40
1:B:282:TRP:N	1:B:308:LEU:H	2.17	0.40
1:B:282:TRP:HH2	1:B:443:LEU:HD22	1.86	0.40
1:B:400:HIS:H	1:B:420:THR:HG21	1.87	0.40
1:B:485:THR:HG23	1:B:487:GLY:N	2.36	0.40
1:B:2437:ASN:HB2	1:B:2592:THR:HB	2.04	0.40
1:B:2532:LEU:HA	1:B:2535:ILE:HG12	2.04	0.40
1:B:2552:VAL:HG12	1:B:2554:ARG:HG3	2.02	0.40
1:C:243:PHE:CZ	1:C:432:ILE:HA	2.57	0.40
1:C:480:LEU:HA	1:C:483:PHE:HB3	2.04	0.40
1:C:2584:LEU:O	1:C:2587:GLY:N	2.55	0.40
1:C:2701:LYS:HB2	1:D:2700:GLU:CD	2.46	0.40
1:D:488:THR:O	1:D:489:ASN:ND2	2.55	0.40
1:D:505:GLU:OE1	1:D:505:GLU:N	2.53	0.40
1:D:2543:LEU:HD23	1:D:2543:LEU:HA	1.81	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	856/2750 (31%)	645 (75%)	137 (16%)	74 (9%)	0	9
1	B	856/2750 (31%)	647 (76%)	135 (16%)	74 (9%)	0	9
1	C	856/2750 (31%)	646 (76%)	137 (16%)	73 (8%)	0	9
1	D	856/2750 (31%)	649 (76%)	133 (16%)	74 (9%)	0	9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	3424/11000 (31%)	2587 (76%)	542 (16%)	295 (9%)	1 9

All (295) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	16	SER
1	A	20	GLU
1	A	144	LYS
1	A	165	PRO
1	A	166	PHE
1	A	183	VAL
1	A	204	PRO
1	A	245	ALA
1	A	284	VAL
1	A	313	TYR
1	A	317	GLU
1	A	385	ASN
1	A	399	VAL
1	A	426	ASP
1	A	431	ALA
1	A	506	ARG
1	A	534	PRO
1	A	547	ALA
1	A	2297	PHE
1	A	2440	PRO
1	A	2460	TYR
1	A	2465	ASP
1	A	2565	ALA
1	A	2584	LEU
1	B	16	SER
1	B	20	GLU
1	B	144	LYS
1	B	165	PRO
1	B	166	PHE
1	B	183	VAL
1	B	204	PRO
1	B	245	ALA
1	B	284	VAL
1	B	313	TYR
1	B	317	GLU
1	B	385	ASN
1	B	399	VAL

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Mol	Chain	Res	Type
1	B	426	ASP
1	B	431	ALA
1	B	506	ARG
1	B	534	PRO
1	B	547	ALA
1	B	2297	PHE
1	B	2440	PRO
1	B	2460	TYR
1	B	2465	ASP
1	B	2565	ALA
1	B	2584	LEU
1	C	16	SER
1	C	20	GLU
1	C	144	LYS
1	C	165	PRO
1	C	166	PHE
1	C	183	VAL
1	C	204	PRO
1	C	245	ALA
1	C	284	VAL
1	C	313	TYR
1	C	317	GLU
1	C	385	ASN
1	C	399	VAL
1	C	426	ASP
1	C	431	ALA
1	C	506	ARG
1	C	534	PRO
1	C	547	ALA
1	C	2297	PHE
1	C	2440	PRO
1	C	2460	TYR
1	C	2465	ASP
1	C	2565	ALA
1	C	2584	LEU
1	D	16	SER
1	D	20	GLU
1	D	144	LYS
1	D	165	PRO
1	D	166	PHE
1	D	183	VAL
1	D	204	PRO

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Mol	Chain	Res	Type
1	D	245	ALA
1	D	284	VAL
1	D	313	TYR
1	D	317	GLU
1	D	385	ASN
1	D	399	VAL
1	D	426	ASP
1	D	431	ALA
1	D	506	ARG
1	D	534	PRO
1	D	547	ALA
1	D	2297	PHE
1	D	2440	PRO
1	D	2460	TYR
1	D	2465	ASP
1	D	2565	ALA
1	D	2584	LEU
1	A	38	VAL
1	A	136	LYS
1	A	160	TRP
1	A	168	LYS
1	A	221	VAL
1	A	232	ASP
1	A	233	ILE
1	A	309	ALA
1	A	312	HIS
1	A	363	ASP
1	A	398	TRP
1	A	409	GLU
1	A	484	VAL
1	A	566	ASP
1	B	38	VAL
1	B	136	LYS
1	B	160	TRP
1	B	168	LYS
1	B	221	VAL
1	B	232	ASP
1	B	233	ILE
1	B	309	ALA
1	B	312	HIS
1	B	363	ASP
1	B	398	TRP

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Mol	Chain	Res	Type
1	B	409	GLU
1	B	484	VAL
1	B	566	ASP
1	B	2553	LEU
1	C	38	VAL
1	C	136	LYS
1	C	160	TRP
1	C	168	LYS
1	C	221	VAL
1	C	232	ASP
1	C	233	ILE
1	C	309	ALA
1	C	312	HIS
1	C	363	ASP
1	C	398	TRP
1	C	484	VAL
1	C	566	ASP
1	D	38	VAL
1	D	136	LYS
1	D	160	TRP
1	D	168	LYS
1	D	221	VAL
1	D	232	ASP
1	D	233	ILE
1	D	309	ALA
1	D	312	HIS
1	D	363	ASP
1	D	398	TRP
1	D	409	GLU
1	D	484	VAL
1	D	566	ASP
1	D	2553	LEU
1	A	67	SER
1	A	388	VAL
1	A	403	ASN
1	A	418	ILE
1	A	493	ASP
1	A	527	PHE
1	A	2327	LEU
1	A	2553	LEU
1	B	67	SER
1	B	388	VAL

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Mol	Chain	Res	Type
1	B	403	ASN
1	B	493	ASP
1	B	527	PHE
1	B	2327	LEU
1	C	67	SER
1	C	388	VAL
1	C	403	ASN
1	C	405	PRO
1	C	409	GLU
1	C	493	ASP
1	C	527	PHE
1	C	2327	LEU
1	C	2553	LEU
1	D	388	VAL
1	D	403	ASN
1	D	493	ASP
1	D	527	PHE
1	D	2327	LEU
1	A	7	SER
1	A	21	GLY
1	A	65	ARG
1	A	77	LYS
1	A	354	SER
1	A	405	PRO
1	A	504	ARG
1	A	2330	PRO
1	A	2338	ALA
1	A	2540	SER
1	B	7	SER
1	B	21	GLY
1	B	65	ARG
1	B	77	LYS
1	B	354	SER
1	B	405	PRO
1	B	418	ILE
1	B	504	ARG
1	B	2330	PRO
1	B	2338	ALA
1	B	2350	LEU
1	C	7	SER
1	C	21	GLY
1	C	65	ARG

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Mol	Chain	Res	Type
1	C	77	LYS
1	C	354	SER
1	C	418	ILE
1	C	504	ARG
1	C	2330	PRO
1	C	2338	ALA
1	C	2561	PRO
1	D	7	SER
1	D	21	GLY
1	D	65	ARG
1	D	67	SER
1	D	77	LYS
1	D	354	SER
1	D	405	PRO
1	D	418	ILE
1	D	504	ARG
1	D	2330	PRO
1	D	2338	ALA
1	D	2350	LEU
1	D	2561	PRO
1	A	11	ILE
1	A	177	VAL
1	A	422	PRO
1	A	513	GLN
1	A	2561	PRO
1	B	11	ILE
1	B	422	PRO
1	B	513	GLN
1	B	2540	SER
1	B	2561	PRO
1	C	11	ILE
1	C	177	VAL
1	C	422	PRO
1	C	513	GLN
1	C	2540	SER
1	D	11	ILE
1	D	422	PRO
1	D	513	GLN
1	D	2540	SER
1	A	122	GLN
1	A	272	ALA
1	A	283	GLU

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Mol	Chain	Res	Type
1	A	382	VAL
1	B	122	GLN
1	B	177	VAL
1	B	283	GLU
1	B	382	VAL
1	C	122	GLN
1	C	272	ALA
1	C	382	VAL
1	D	122	GLN
1	D	177	VAL
1	D	283	GLU
1	D	382	VAL
1	D	2439	ARG
1	A	491	GLY
1	A	2439	ARG
1	A	2459	GLY
1	B	491	GLY
1	C	491	GLY
1	C	2439	ARG
1	C	2459	GLY
1	D	491	GLY
1	A	2349	GLY
1	A	2556	PRO
1	B	2439	ARG
1	B	2459	GLY
1	C	2349	GLY
1	D	2459	GLY
1	A	220	ILE
1	A	361	GLY
1	A	533	GLY
1	B	220	ILE
1	B	361	GLY
1	B	533	GLY
1	B	2349	GLY
1	C	220	ILE
1	C	361	GLY
1	C	533	GLY
1	C	2556	PRO
1	D	220	ILE
1	D	361	GLY
1	D	533	GLY
1	D	2349	GLY

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Mol	Chain	Res	Type
1	B	2556	PRO
1	D	2556	PRO
1	A	192	PRO
1	C	192	PRO
1	B	192	PRO
1	D	192	PRO

5.3.2 Protein sidechains ⓘ

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	769/2459 (31%)	761 (99%)	8 (1%)	68	76
1	B	769/2459 (31%)	761 (99%)	8 (1%)	68	76
1	C	769/2459 (31%)	761 (99%)	8 (1%)	68	76
1	D	769/2459 (31%)	762 (99%)	7 (1%)	70	77
All	All	3076/9836 (31%)	3045 (99%)	31 (1%)	65	76

All (31) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	ILE
1	A	178	ILE
1	A	2415	LEU
1	A	2428	LEU
1	A	2431	ILE
1	A	2435	THR
1	A	2514	LEU
1	A	2571	LEU
1	B	14	ILE
1	B	178	ILE
1	B	2415	LEU
1	B	2428	LEU
1	B	2431	ILE
1	B	2435	THR
1	B	2514	LEU

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Mol	Chain	Res	Type
1	B	2571	LEU
1	C	14	ILE
1	C	178	ILE
1	C	2415	LEU
1	C	2428	LEU
1	C	2431	ILE
1	C	2435	THR
1	C	2514	LEU
1	C	2571	LEU
1	D	14	ILE
1	D	178	ILE
1	D	2415	LEU
1	D	2431	ILE
1	D	2435	THR
1	D	2514	LEU
1	D	2571	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (50) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	94	HIS
1	A	188	ASN
1	A	213	ASN
1	A	215	ASN
1	A	244	HIS
1	A	270	GLN
1	A	289	HIS
1	A	385	ASN
1	A	489	ASN
1	A	518	GLN
1	A	546	HIS
1	A	2541	HIS
1	A	2715	GLN
1	A	2731	GLN
1	B	94	HIS
1	B	188	ASN
1	B	213	ASN
1	B	215	ASN
1	B	244	HIS
1	B	256	HIS
1	B	289	HIS
1	B	385	ASN

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Mol	Chain	Res	Type
1	B	489	ASN
1	B	518	GLN
1	B	2541	HIS
1	B	2715	GLN
1	B	2731	GLN
1	C	94	HIS
1	C	188	ASN
1	C	213	ASN
1	C	215	ASN
1	C	244	HIS
1	C	289	HIS
1	C	385	ASN
1	C	489	ASN
1	C	518	GLN
1	C	2715	GLN
1	C	2731	GLN
1	D	94	HIS
1	D	188	ASN
1	D	213	ASN
1	D	215	ASN
1	D	244	HIS
1	D	289	HIS
1	D	385	ASN
1	D	489	ASN
1	D	518	GLN
1	D	2541	HIS
1	D	2715	GLN
1	D	2731	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

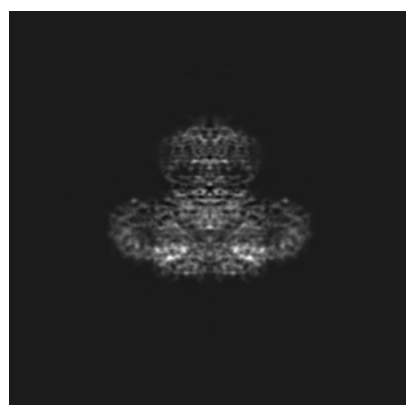
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6369. These allow visual inspection of the internal detail of the map and identification of artifacts.

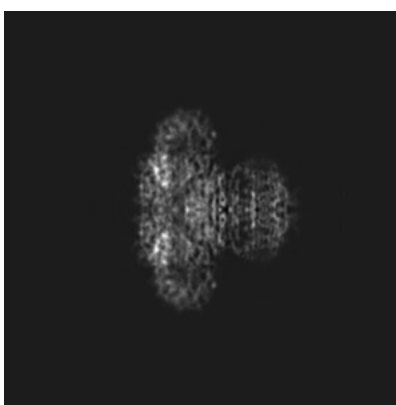
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

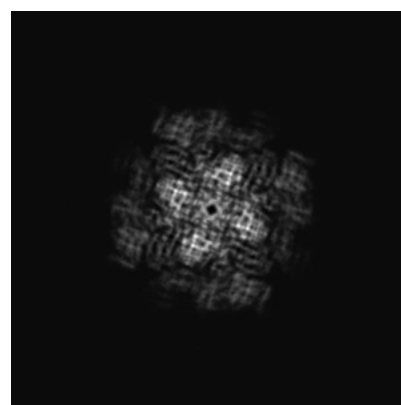
6.1.1 Primary map



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: 128



Y Index: 128

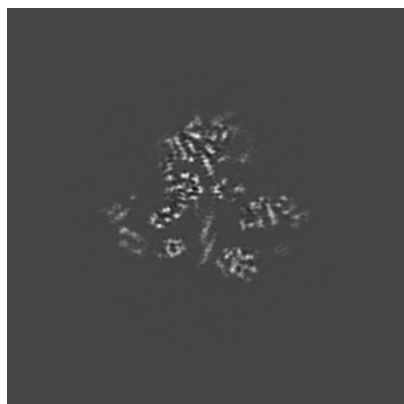


Z Index: 128

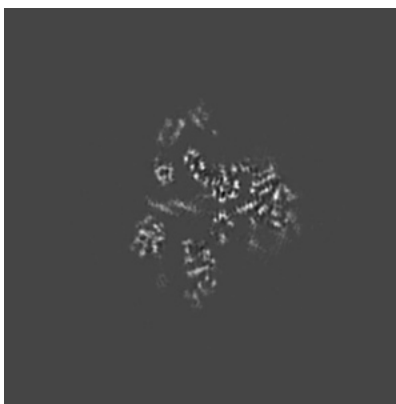
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

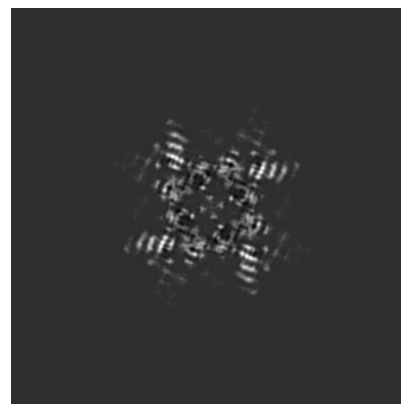
6.3.1 Primary map



X Index: 123



Y Index: 123

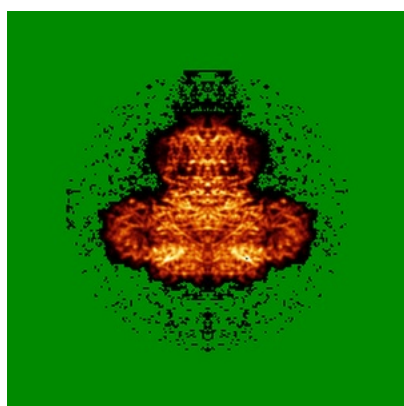


Z Index: 97

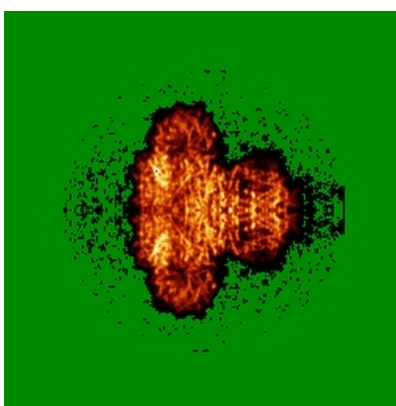
The images above show the largest variance slices of the map in three orthogonal directions.

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

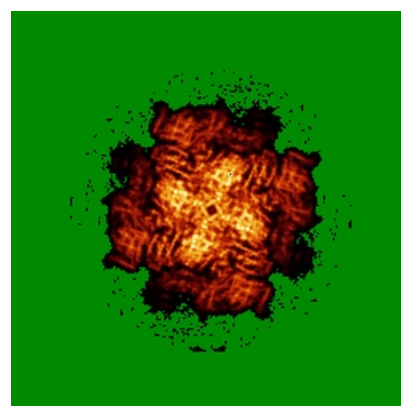
6.4.1 Primary map



X



Y

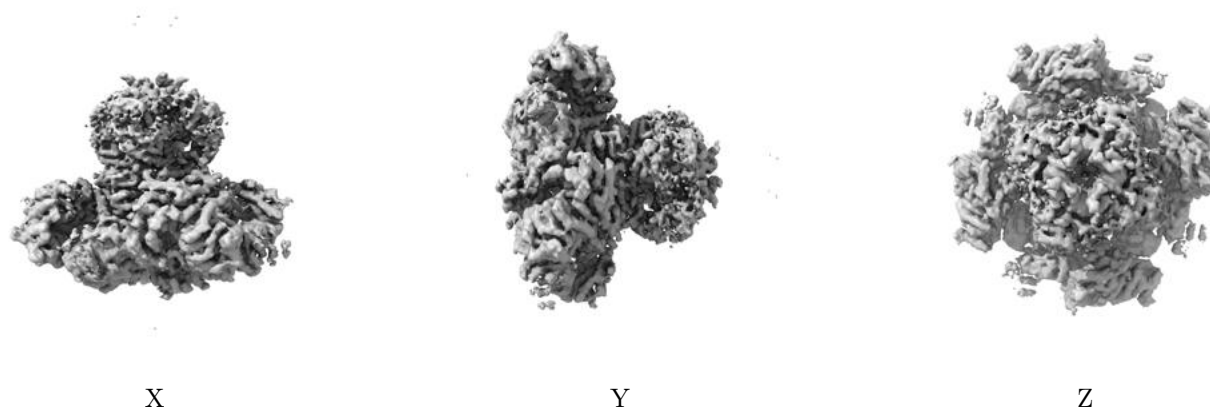


Z

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 0.7. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

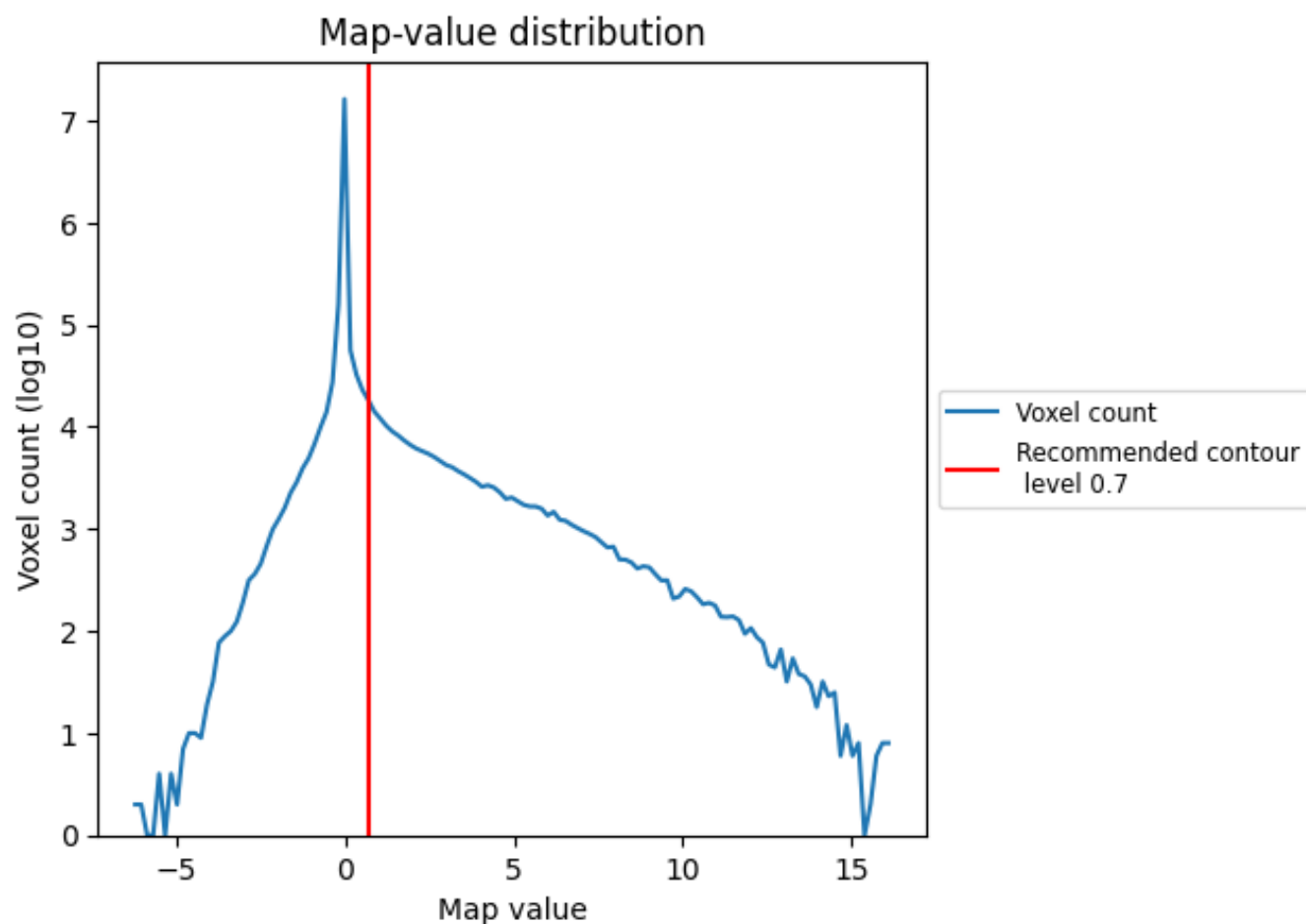
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

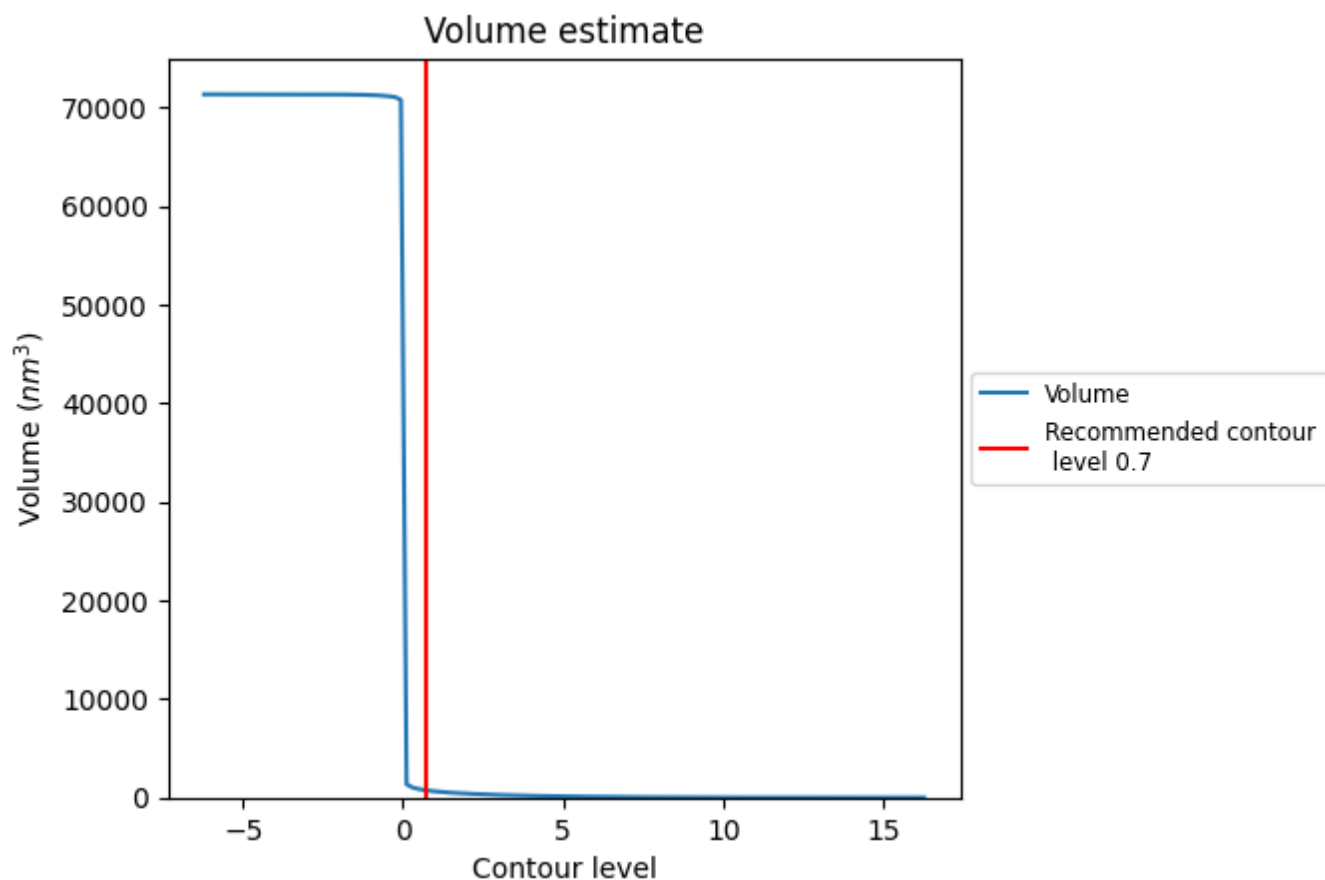
This section contains the results of statistical analysis of the map.

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.

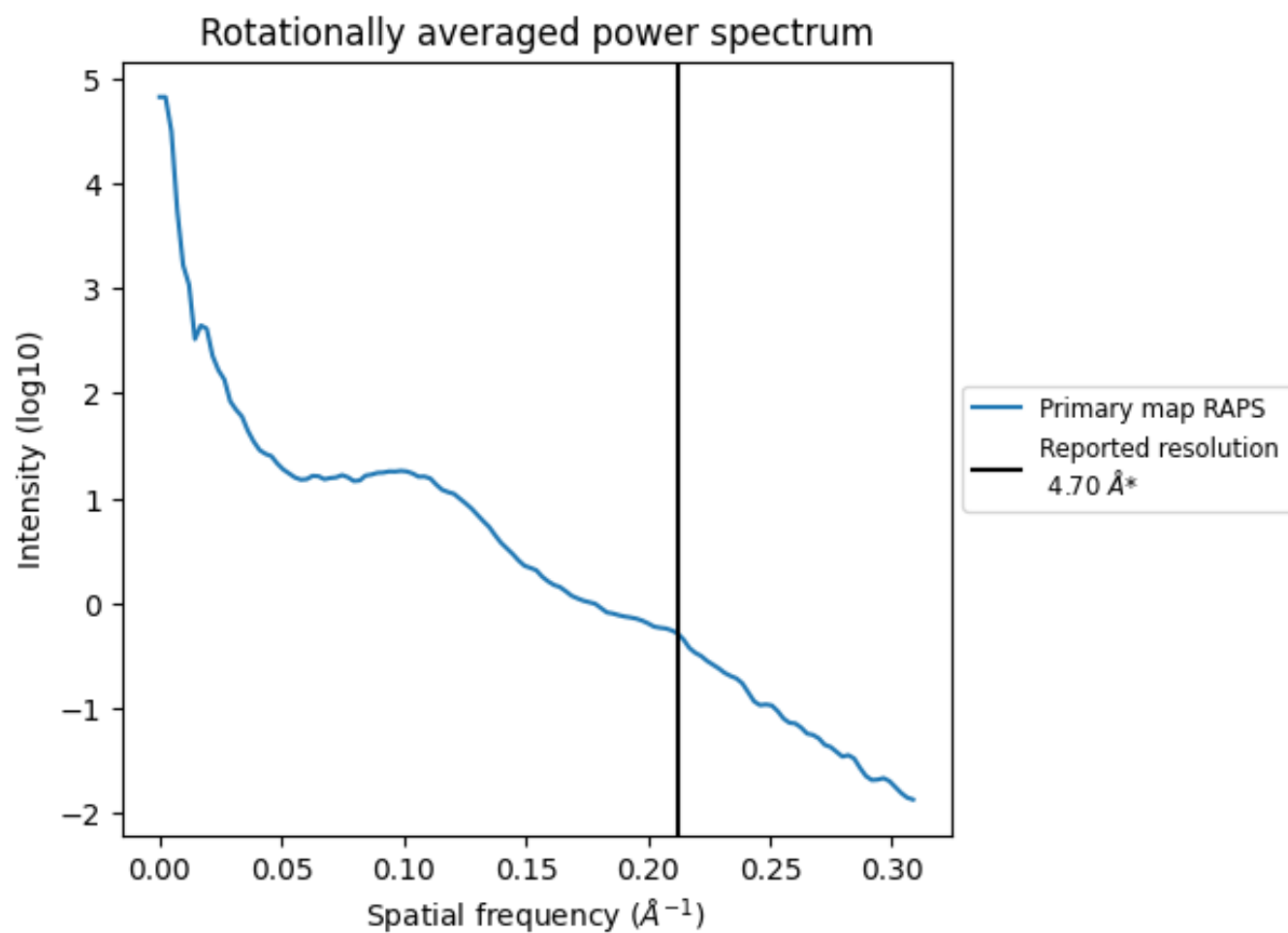
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 745 nm^3 ; this corresponds to an approximate mass of 673 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 ⓘ



*Reported resolution corresponds to spatial frequency of 0.213 Å⁻¹

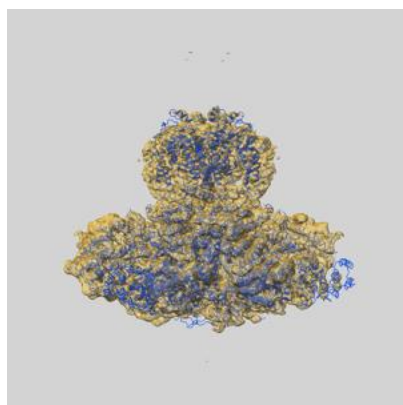
8 Fourier-Shell correlation ⓘ

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

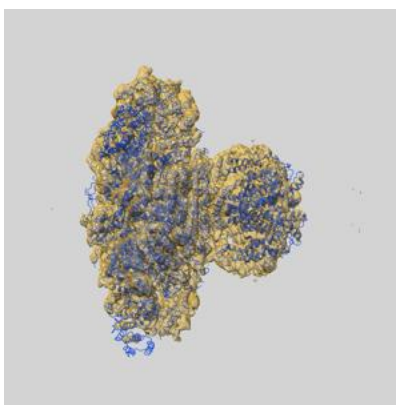
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-6369 and PDB model 3JAV. Per-residue inclusion information can be found in section [3](#) on page [4](#).

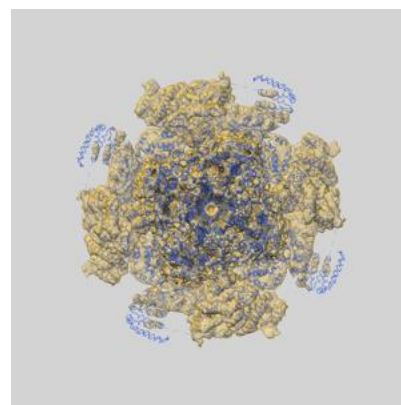
9.1 Map-model overlay [i](#)



X



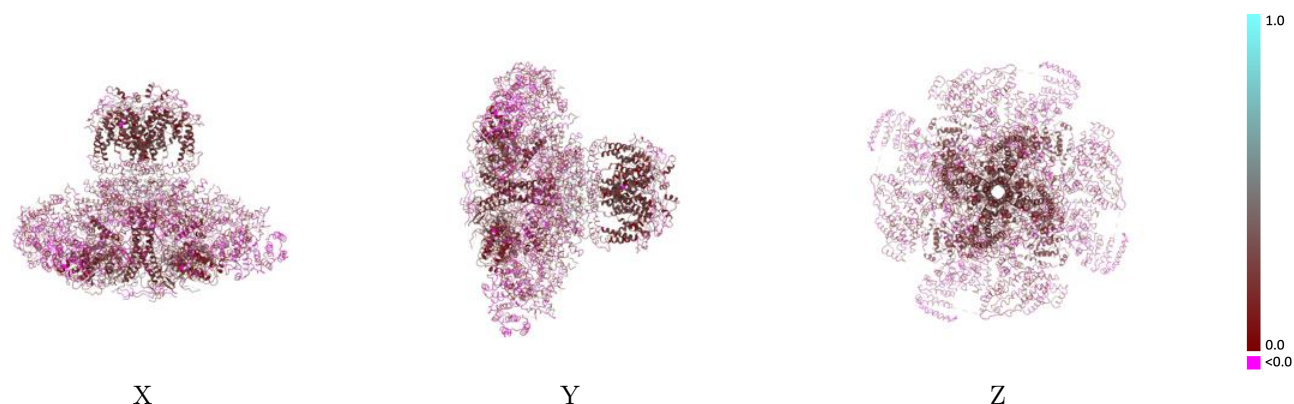
Y



Z

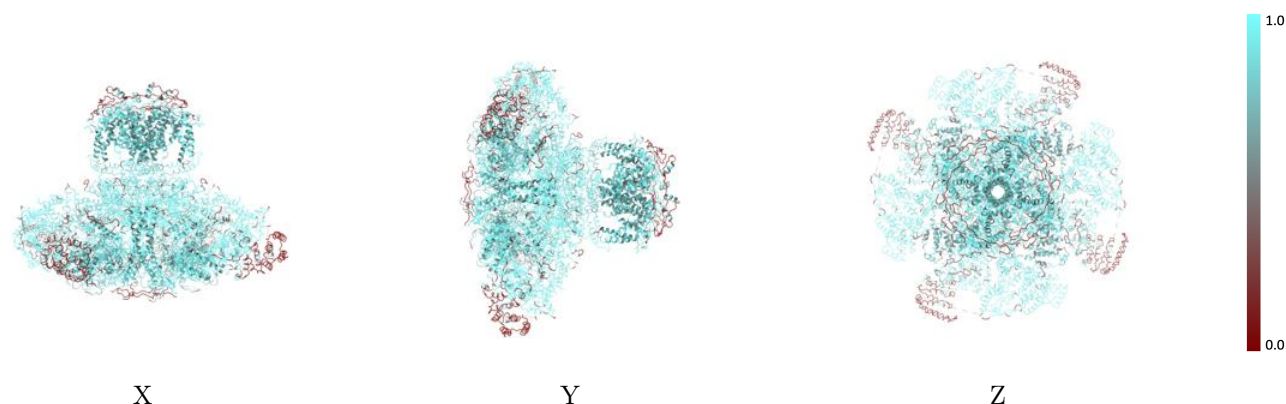
The images above show the 3D surface view of the map at the recommended contour level 0.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



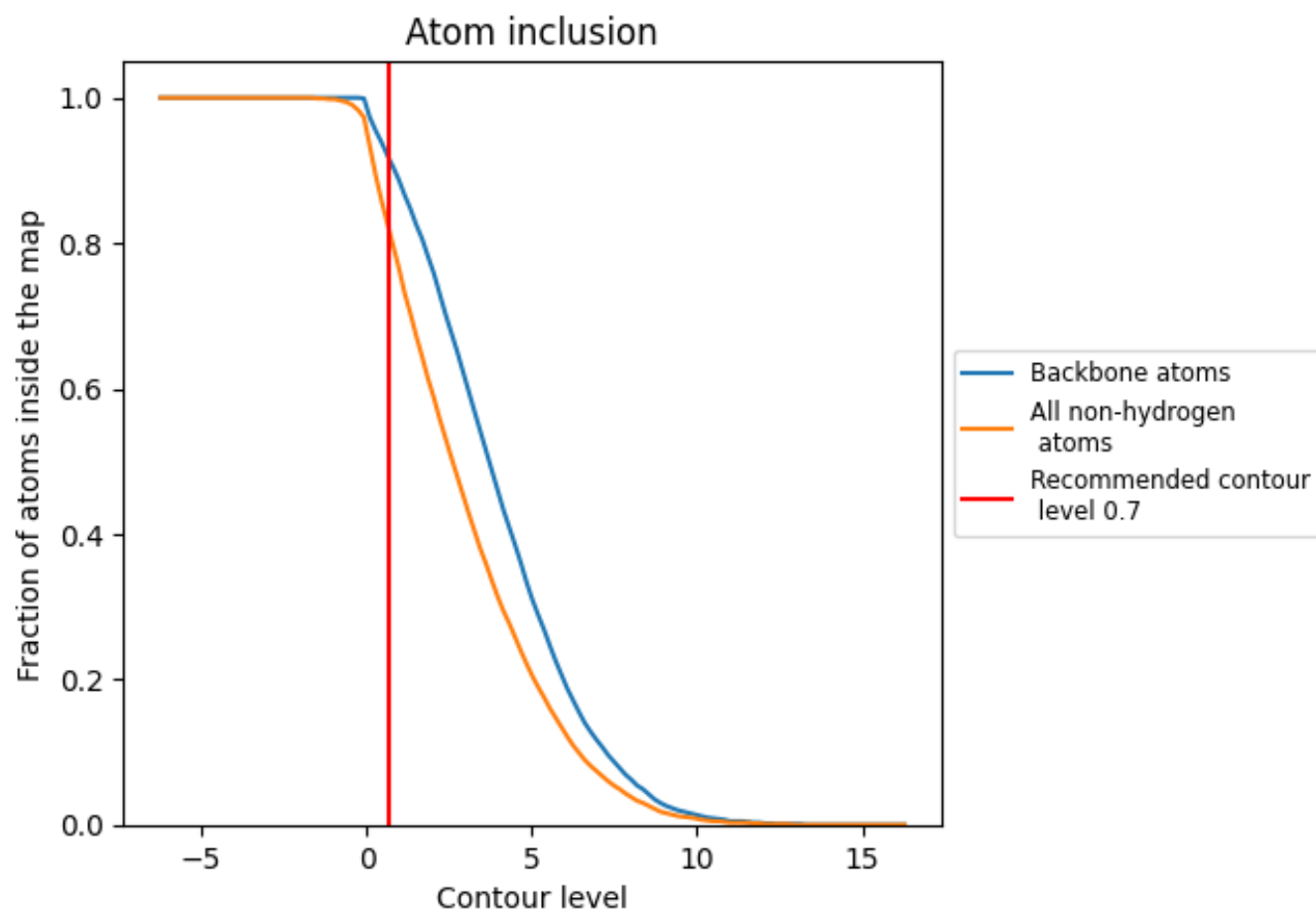
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.7).

9.4 Atom inclusion ⓘ



At the recommended contour level, 92% of all backbone atoms, 82% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8170	0.2190
A	0.8170	0.2180
B	0.8190	0.2190
C	0.8170	0.2180
D	0.8180	0.2190

