



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 08:38 PM UTC

PDB ID : 6MU2 / pdb_00006mu2
EMDB ID : EMD-9244
Title : Structure of full-length IP3R1 channel in the Apo-state
Authors : Serysheva, I.I.; Fan, G.; Baker, M.R.; Wang, Z.; Seryshev, A.; Ludtke, S.J.;
Baker, M.L.
Deposited on : 2018-10-22
Resolution : 3.90 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:

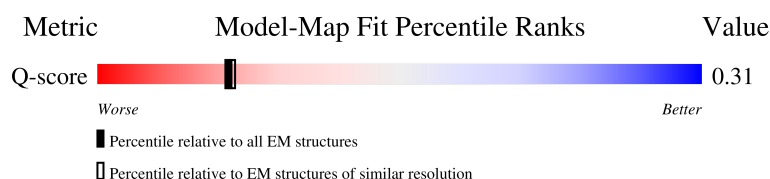
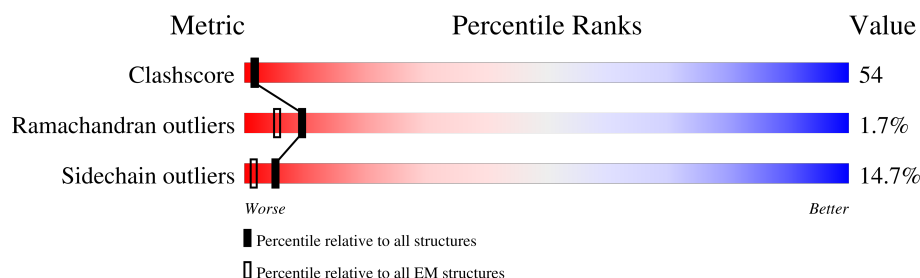
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 3.90 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	8855 (3.40 - 4.40)

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	
1	B	2750	
1	C	2750	
1	D	2750	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 51404 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.

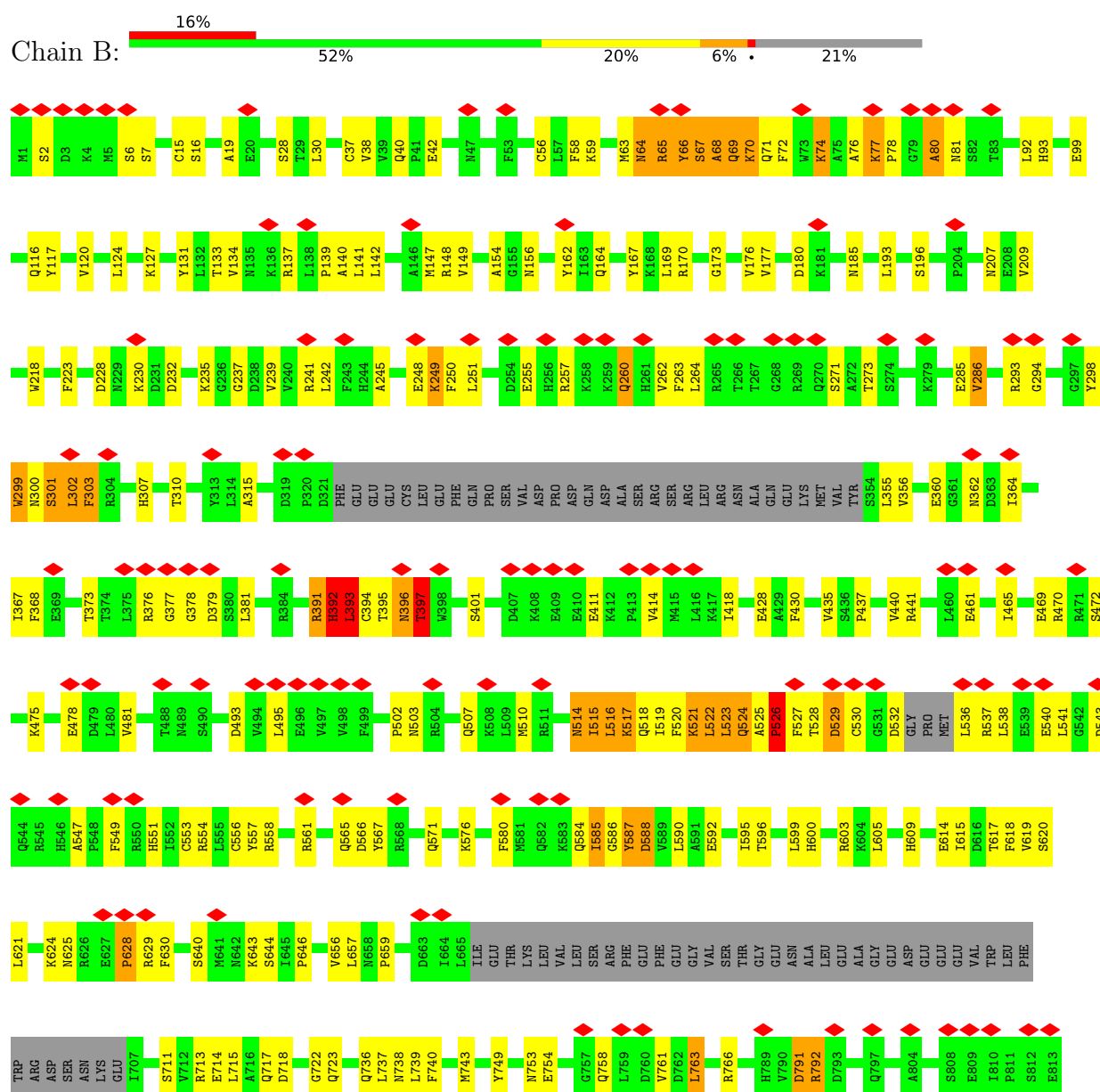
- Molecule 1 is a protein called Inositol 1,4,5-trisphosphate receptor type 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	2170	Total	C	N	O	S	0	0
			12851	7584	2562	2660	45		
1	A	2170	Total	C	N	O	S	0	0
			12851	7584	2562	2660	45		
1	D	2170	Total	C	N	O	S	0	0
			12851	7584	2562	2660	45		
1	C	2170	Total	C	N	O	S	0	0
			12851	7584	2562	2660	45		

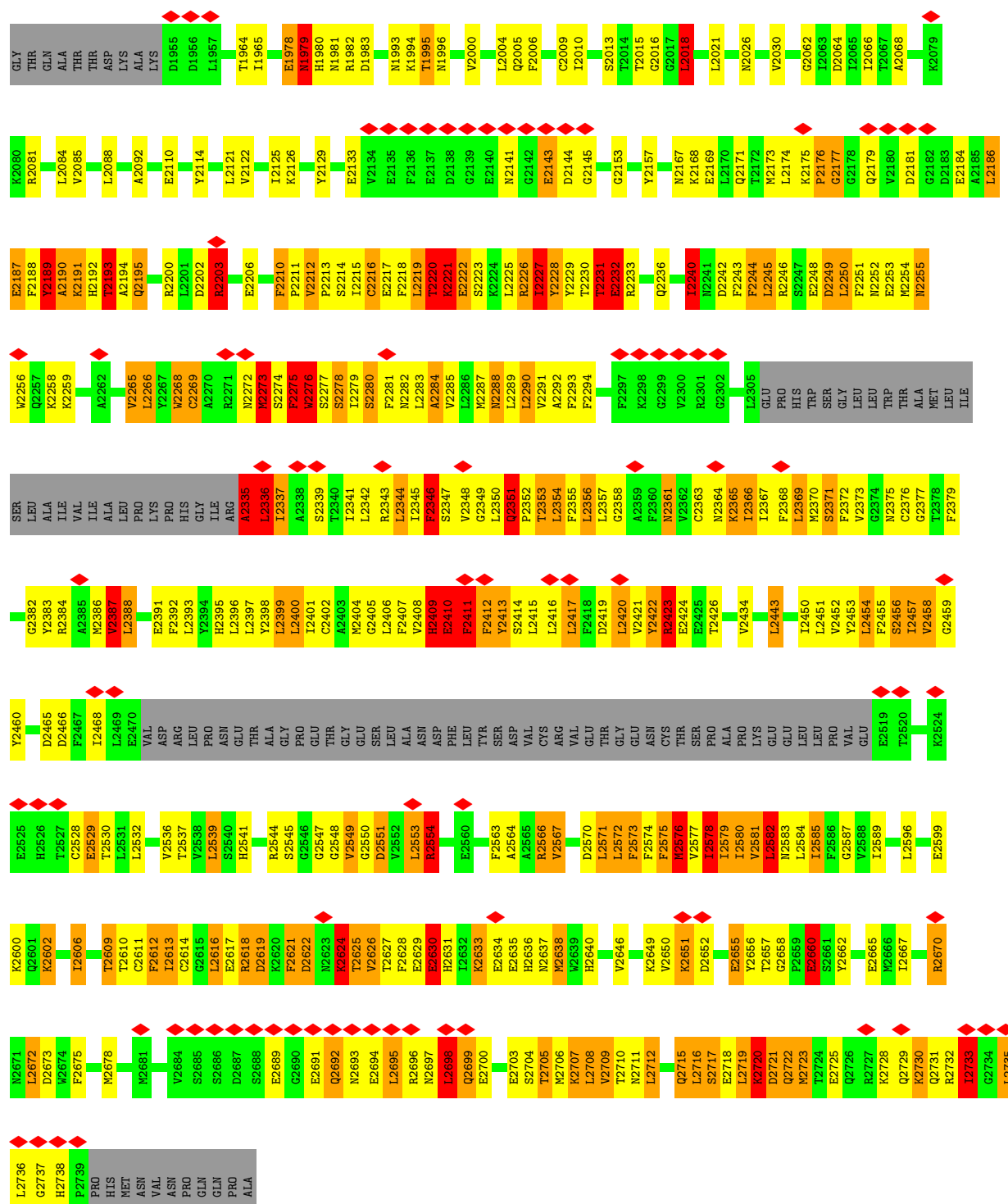
3 Residue-property plots

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

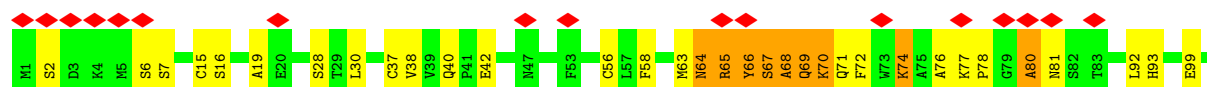






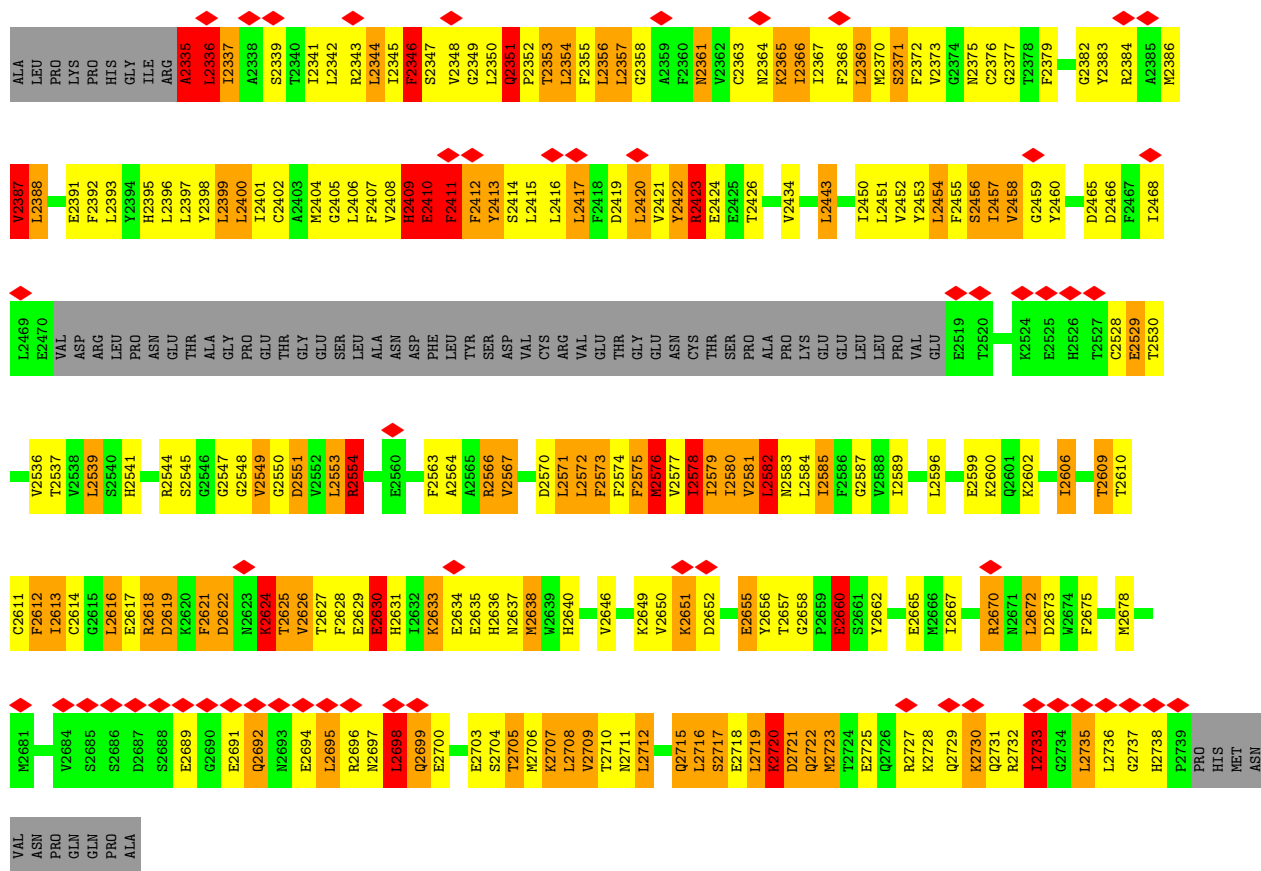
• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1

Chain A: 16% 52% 20% 5% 21%

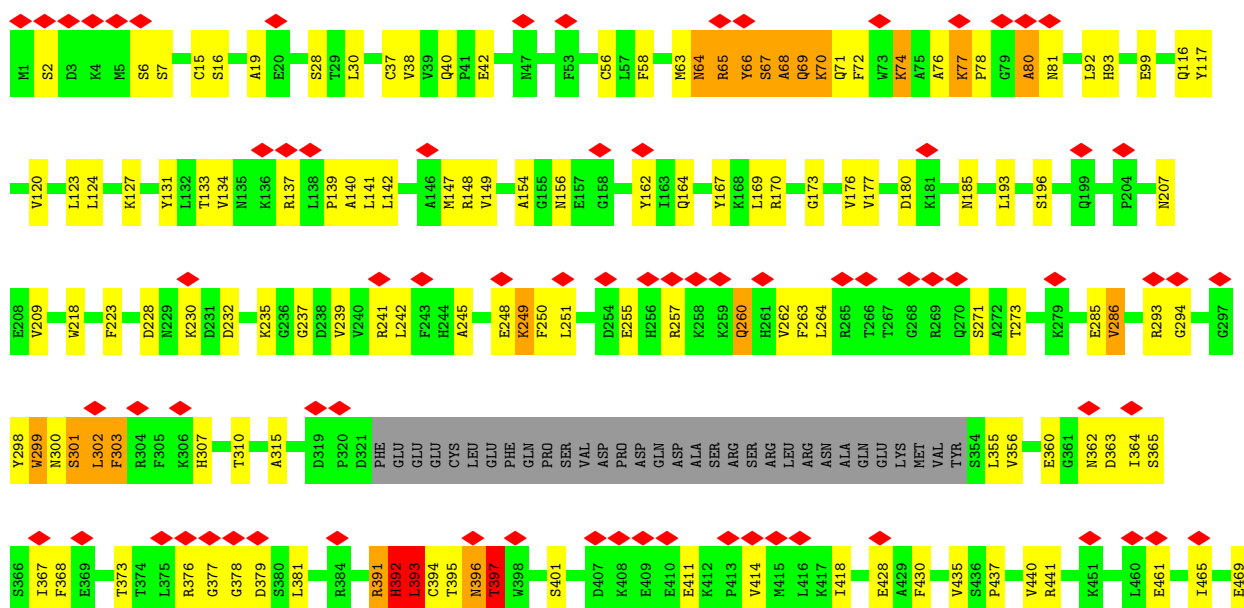


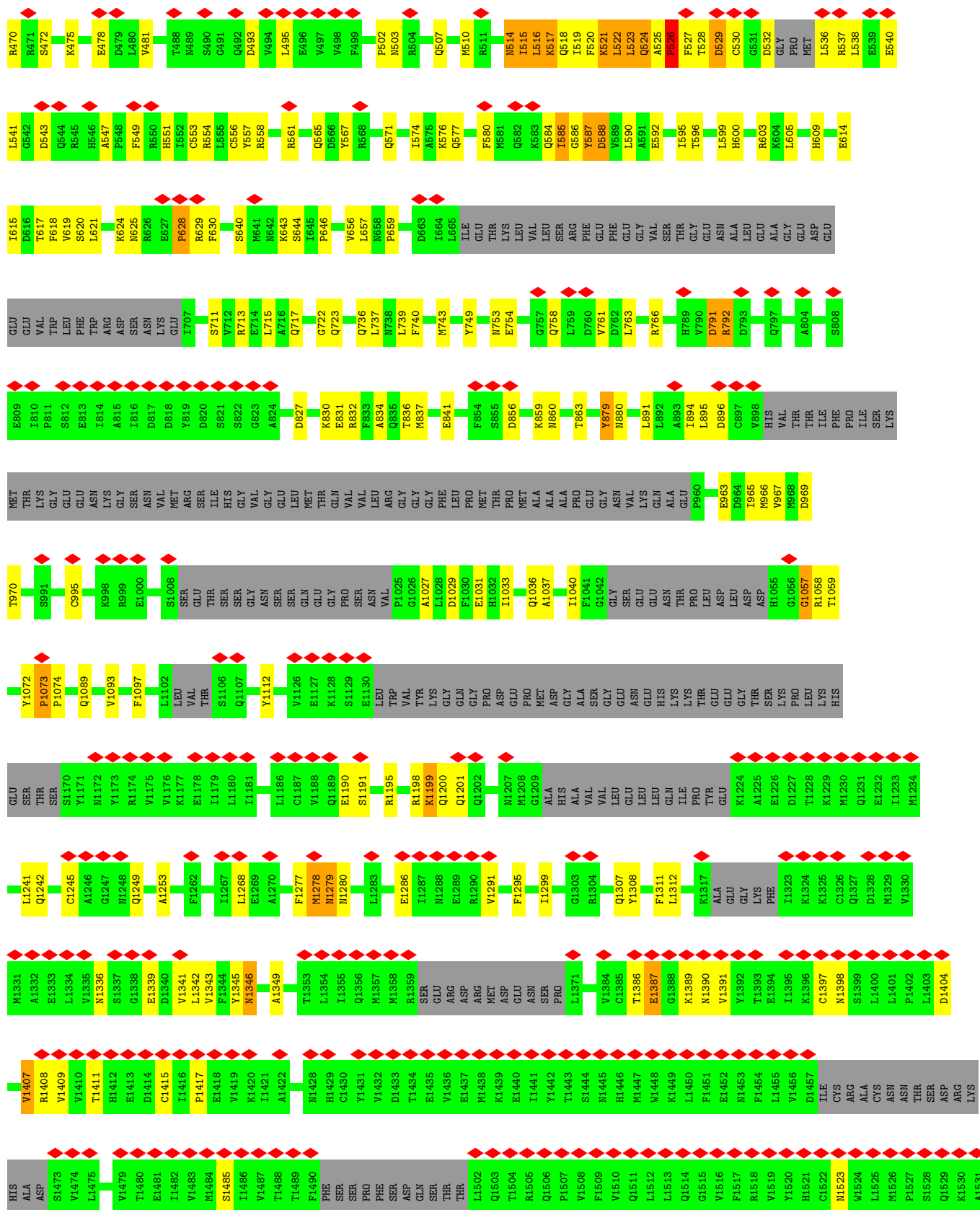




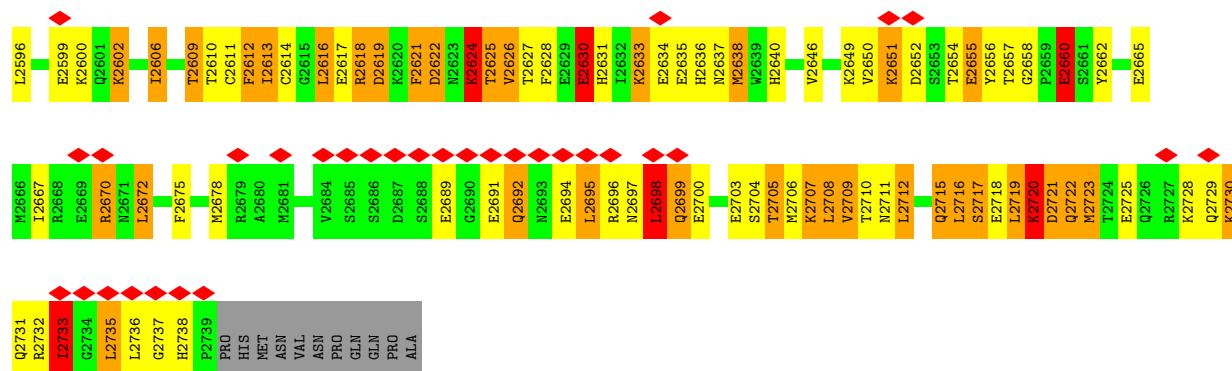


• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1

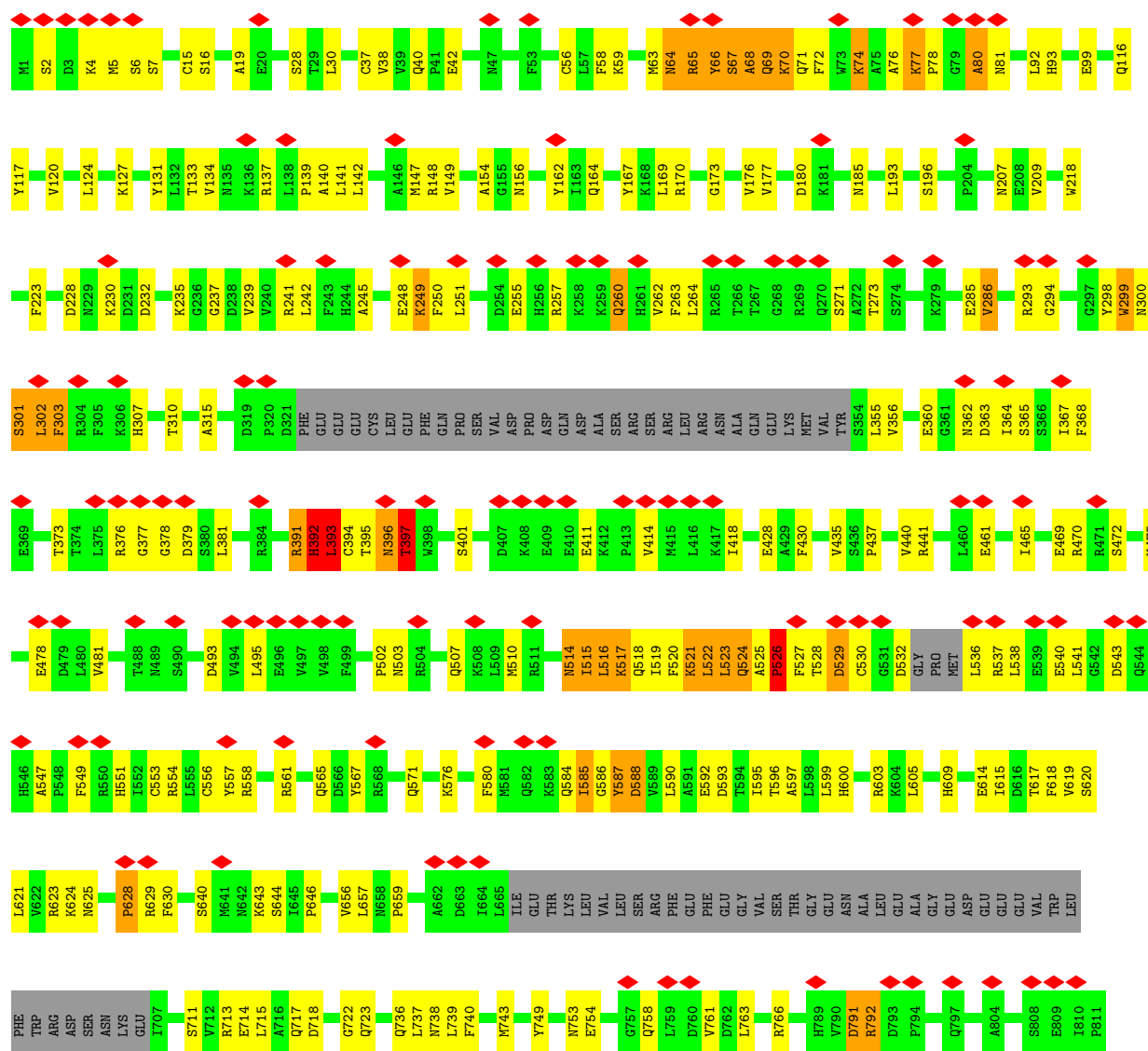








• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1







4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	65438	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	1.3	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	11.961	Depositor
Minimum map value	-8.843	Depositor
Average map value	0.082	Depositor
Map value standard deviation	0.673	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	252.0, 252.0, 252.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.26, 1.26, 1.26	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.84	51/13005 (0.4%)	1.44	231/17078 (1.4%)
1	B	0.84	49/13005 (0.4%)	1.44	233/17078 (1.4%)
1	C	0.84	50/13005 (0.4%)	1.44	231/17078 (1.4%)
1	D	0.84	50/13005 (0.4%)	1.44	231/17078 (1.4%)
All	All	0.84	200/52020 (0.4%)	1.44	926/68312 (1.4%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	25
1	B	0	25
1	C	0	25
1	D	0	25
All	All	0	100

All (200) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2336	LEU	CA-C	14.12	1.66	1.52
1	D	2336	LEU	CA-C	14.11	1.66	1.52
1	B	2336	LEU	CA-C	14.06	1.66	1.52
1	C	2336	LEU	CA-C	14.06	1.66	1.52
1	D	629	ARG	CA-C	12.41	1.67	1.53
1	A	629	ARG	CA-C	12.36	1.67	1.53
1	C	629	ARG	CA-C	12.36	1.67	1.53
1	B	629	ARG	CA-C	12.35	1.67	1.53
1	C	1058	ARG	CA-C	10.75	1.66	1.53
1	B	1058	ARG	CA-C	10.73	1.66	1.53
1	A	1058	ARG	CA-C	10.71	1.66	1.53
1	D	1058	ARG	CA-C	10.71	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	629	ARG	C-O	9.99	1.35	1.23
1	C	629	ARG	C-O	9.95	1.35	1.23
1	A	629	ARG	C-O	9.94	1.35	1.23
1	D	629	ARG	C-O	9.88	1.35	1.23
1	B	2347	SER	CA-C	8.88	1.64	1.52
1	A	2347	SER	CA-C	8.88	1.64	1.52
1	D	2347	SER	CA-C	8.86	1.64	1.52
1	C	2347	SER	CA-C	8.85	1.64	1.52
1	A	629	ARG	N-CA	8.71	1.57	1.46
1	D	629	ARG	N-CA	8.70	1.57	1.46
1	C	629	ARG	N-CA	8.70	1.57	1.46
1	B	629	ARG	N-CA	8.68	1.57	1.46
1	B	2343	ARG	C-O	8.19	1.33	1.24
1	C	397	THR	N-CA	8.17	1.56	1.46
1	A	2343	ARG	C-O	8.17	1.33	1.24
1	C	2343	ARG	C-O	8.17	1.33	1.24
1	D	397	THR	N-CA	8.15	1.56	1.46
1	A	895	LEU	CA-C	8.14	1.62	1.52
1	D	895	LEU	CA-C	8.10	1.62	1.52
1	B	397	THR	N-CA	8.10	1.56	1.46
1	B	895	LEU	CA-C	8.09	1.62	1.52
1	D	2343	ARG	C-O	8.09	1.33	1.24
1	A	397	THR	N-CA	8.08	1.55	1.46
1	C	895	LEU	CA-C	8.08	1.62	1.52
1	D	1058	ARG	C-O	7.91	1.32	1.23
1	B	1058	ARG	C-O	7.86	1.32	1.23
1	A	1058	ARG	C-O	7.86	1.32	1.23
1	B	2336	LEU	C-O	7.86	1.35	1.23
1	C	1058	ARG	C-O	7.86	1.32	1.23
1	A	2336	LEU	C-O	7.82	1.35	1.23
1	C	2336	LEU	C-O	7.81	1.35	1.23
1	D	2336	LEU	C-O	7.80	1.35	1.23
1	B	895	LEU	N-CA	7.79	1.55	1.46
1	D	895	LEU	N-CA	7.79	1.55	1.46
1	C	895	LEU	N-CA	7.78	1.55	1.46
1	A	895	LEU	N-CA	7.77	1.55	1.46
1	D	2336	LEU	N-CA	7.60	1.55	1.46
1	A	2336	LEU	N-CA	7.59	1.55	1.46
1	C	2336	LEU	N-CA	7.58	1.55	1.46
1	B	2336	LEU	N-CA	7.55	1.55	1.46
1	C	2581	VAL	CA-C	-7.42	1.44	1.53
1	C	2618	ARG	N-CA	-7.40	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	2581	VAL	CA-C	-7.38	1.44	1.53
1	A	2581	VAL	CA-C	-7.37	1.44	1.53
1	B	2581	VAL	CA-C	-7.36	1.44	1.53
1	B	2618	ARG	N-CA	-7.35	1.37	1.46
1	D	2618	ARG	N-CA	-7.34	1.37	1.46
1	A	2618	ARG	N-CA	-7.32	1.37	1.46
1	B	1278	MET	CA-C	7.28	1.62	1.52
1	A	1278	MET	CA-C	7.28	1.62	1.52
1	C	1278	MET	CA-C	7.28	1.62	1.52
1	A	1390	ASN	CA-C	7.25	1.61	1.52
1	B	1390	ASN	CA-C	7.24	1.61	1.52
1	D	1278	MET	CA-C	7.24	1.62	1.52
1	D	1390	ASN	CA-C	7.22	1.61	1.52
1	C	1390	ASN	CA-C	7.18	1.61	1.52
1	A	1073	PRO	CA-C	7.04	1.58	1.52
1	C	1073	PRO	CA-C	7.03	1.58	1.52
1	B	1073	PRO	CA-C	7.01	1.58	1.52
1	D	1073	PRO	CA-C	6.99	1.58	1.52
1	C	2347	SER	N-CA	6.77	1.54	1.46
1	D	2347	SER	N-CA	6.74	1.54	1.46
1	B	2347	SER	N-CA	6.71	1.54	1.46
1	A	2347	SER	N-CA	6.71	1.54	1.46
1	B	2618	ARG	CA-C	-6.61	1.43	1.52
1	A	2618	ARG	CA-C	-6.61	1.43	1.52
1	D	2618	ARG	CA-C	-6.59	1.43	1.52
1	C	2618	ARG	CA-C	-6.57	1.43	1.52
1	B	392	HIS	CA-C	-6.54	1.45	1.53
1	A	392	HIS	CA-C	-6.54	1.45	1.53
1	B	1979	ASN	CA-C	6.50	1.61	1.52
1	A	2280	SER	CA-C	-6.48	1.44	1.52
1	C	2280	SER	CA-C	-6.48	1.44	1.52
1	A	1979	ASN	CA-C	6.47	1.61	1.52
1	B	2280	SER	CA-C	-6.46	1.44	1.52
1	D	2280	SER	CA-C	-6.46	1.44	1.52
1	D	392	HIS	CA-C	-6.45	1.45	1.53
1	C	392	HIS	CA-C	-6.45	1.45	1.53
1	C	1979	ASN	CA-C	6.44	1.61	1.52
1	D	1979	ASN	CA-C	6.40	1.61	1.52
1	C	2582	LEU	CA-C	-6.39	1.42	1.52
1	B	2412	PHE	C-O	6.37	1.31	1.24
1	A	2582	LEU	CA-C	-6.35	1.42	1.52
1	A	2412	PHE	C-O	6.34	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	2412	PHE	C-O	6.34	1.31	1.24
1	B	2582	LEU	CA-C	-6.32	1.43	1.52
1	D	880	ASN	CA-C	6.30	1.61	1.52
1	D	2582	LEU	CA-C	-6.30	1.43	1.52
1	B	397	THR	CA-C	6.28	1.60	1.52
1	A	397	THR	CA-C	6.28	1.60	1.52
1	A	880	ASN	CA-C	6.27	1.61	1.52
1	D	2412	PHE	C-O	6.26	1.31	1.24
1	B	880	ASN	CA-C	6.23	1.61	1.52
1	C	880	ASN	CA-C	6.23	1.61	1.52
1	B	2266	LEU	CA-C	6.22	1.61	1.52
1	D	397	THR	CA-C	6.21	1.60	1.52
1	C	2266	LEU	CA-C	6.18	1.61	1.52
1	C	397	THR	CA-C	6.17	1.60	1.52
1	D	2266	LEU	CA-C	6.16	1.61	1.52
1	D	2413	TYR	CA-C	6.16	1.60	1.52
1	A	2266	LEU	CA-C	6.16	1.61	1.52
1	B	758	GLN	C-O	6.13	1.31	1.24
1	C	2413	TYR	CA-C	6.13	1.60	1.52
1	D	758	GLN	C-O	6.12	1.31	1.24
1	B	2413	TYR	CA-C	6.11	1.60	1.52
1	A	2413	TYR	CA-C	6.11	1.60	1.52
1	A	758	GLN	C-O	6.10	1.31	1.24
1	D	2578	ILE	CA-C	-6.08	1.45	1.52
1	A	2578	ILE	CA-C	-6.03	1.45	1.52
1	C	758	GLN	C-O	6.02	1.31	1.24
1	D	2575	PHE	CA-C	-6.01	1.45	1.52
1	B	2578	ILE	CA-C	-6.01	1.45	1.52
1	C	2578	ILE	CA-C	-5.98	1.45	1.52
1	A	2575	PHE	CA-C	-5.96	1.45	1.52
1	C	2575	PHE	CA-C	-5.95	1.45	1.52
1	C	891	LEU	C-O	5.94	1.31	1.24
1	B	2575	PHE	CA-C	-5.93	1.45	1.52
1	A	891	LEU	C-O	5.92	1.31	1.24
1	D	891	LEU	C-O	5.89	1.31	1.24
1	B	891	LEU	C-O	5.85	1.30	1.24
1	B	2226	ARG	CA-C	-5.81	1.45	1.52
1	A	2226	ARG	CA-C	-5.81	1.45	1.52
1	D	2226	ARG	CA-C	-5.80	1.45	1.52
1	C	2226	ARG	CA-C	-5.79	1.45	1.52
1	D	640	SER	C-O	5.58	1.30	1.24
1	B	640	SER	C-O	5.58	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	640	SER	C-O	5.57	1.30	1.24
1	C	640	SER	C-O	5.57	1.30	1.24
1	D	2573	PHE	CA-C	-5.43	1.45	1.52
1	B	2573	PHE	CA-C	-5.43	1.45	1.52
1	A	2573	PHE	CA-C	-5.43	1.45	1.52
1	B	2339	SER	C-O	5.42	1.30	1.24
1	C	2573	PHE	CA-C	-5.41	1.45	1.52
1	B	2230	THR	CA-C	-5.40	1.46	1.52
1	D	2230	THR	CA-C	-5.37	1.46	1.52
1	A	2230	THR	CA-C	-5.35	1.46	1.52
1	D	2339	SER	C-O	5.34	1.30	1.24
1	A	2339	SER	C-O	5.34	1.30	1.24
1	C	2339	SER	C-O	5.32	1.30	1.24
1	D	1278	MET	N-CA	5.32	1.53	1.46
1	C	2230	THR	CA-C	-5.32	1.46	1.52
1	D	2577	VAL	CA-C	-5.29	1.46	1.52
1	A	1278	MET	N-CA	5.29	1.53	1.46
1	B	2577	VAL	CA-C	-5.28	1.46	1.52
1	A	2577	VAL	CA-C	-5.28	1.46	1.52
1	B	1278	MET	N-CA	5.26	1.53	1.46
1	D	761	VAL	C-O	5.26	1.30	1.24
1	C	1278	MET	N-CA	5.24	1.53	1.46
1	C	761	VAL	C-O	5.24	1.30	1.24
1	C	2577	VAL	CA-C	-5.24	1.46	1.52
1	B	761	VAL	C-O	5.24	1.30	1.24
1	A	761	VAL	C-O	5.24	1.30	1.24
1	C	2576	MET	CA-C	-5.20	1.46	1.52
1	C	2248	GLU	C-O	5.20	1.30	1.24
1	B	2576	MET	CA-C	-5.19	1.46	1.52
1	A	2576	MET	CA-C	-5.19	1.46	1.52
1	B	2248	GLU	C-O	5.18	1.30	1.24
1	A	2248	GLU	C-O	5.18	1.30	1.24
1	D	1979	ASN	N-CA	5.17	1.52	1.46
1	D	2576	MET	CA-C	-5.15	1.46	1.52
1	D	2248	GLU	C-O	5.13	1.30	1.24
1	D	2240	ILE	N-CA	-5.12	1.38	1.46
1	B	2240	ILE	N-CA	-5.11	1.39	1.46
1	A	1979	ASN	N-CA	5.11	1.52	1.46
1	A	2240	ILE	N-CA	-5.11	1.39	1.46
1	A	2219	LEU	CA-C	5.10	1.58	1.53
1	C	2578	ILE	N-CA	-5.09	1.40	1.46
1	B	2219	LEU	CA-C	5.09	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	2219	LEU	CA-C	5.09	1.58	1.53
1	B	2574	PHE	CA-C	-5.09	1.46	1.52
1	A	2574	PHE	CA-C	-5.09	1.46	1.52
1	C	2574	PHE	CA-C	-5.09	1.46	1.52
1	B	2221	LYS	C-O	5.09	1.30	1.23
1	D	2219	LEU	CA-C	5.09	1.58	1.53
1	C	1979	ASN	N-CA	5.08	1.52	1.46
1	D	2574	PHE	CA-C	-5.07	1.46	1.52
1	C	2240	ILE	N-CA	-5.07	1.39	1.46
1	D	2221	LYS	C-O	5.06	1.30	1.23
1	C	2221	LYS	C-O	5.05	1.30	1.23
1	B	1979	ASN	N-CA	5.04	1.52	1.46
1	A	2578	ILE	N-CA	-5.04	1.40	1.46
1	A	2221	LYS	C-O	5.03	1.30	1.23
1	D	2578	ILE	N-CA	-5.02	1.40	1.46
1	C	2239	LYS	C-N	-5.02	1.28	1.33
1	B	2413	TYR	N-CA	5.02	1.52	1.46
1	A	2239	LYS	C-N	-5.01	1.28	1.33
1	A	2413	TYR	N-CA	5.01	1.52	1.46
1	D	2239	LYS	C-N	-5.01	1.28	1.33

All (926) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1278	MET	N-CA-C	26.06	142.05	111.82
1	D	1278	MET	N-CA-C	26.05	142.04	111.82
1	C	1278	MET	N-CA-C	26.05	142.03	111.82
1	A	1278	MET	N-CA-C	26.03	142.02	111.82
1	A	1415	CYS	N-CA-C	19.30	136.60	110.35
1	C	1415	CYS	N-CA-C	19.30	136.59	110.35
1	D	1415	CYS	N-CA-C	19.28	136.57	110.35
1	B	1415	CYS	N-CA-C	19.27	136.56	110.35
1	D	895	LEU	N-CA-C	18.06	138.33	108.90
1	A	895	LEU	N-CA-C	18.03	138.29	108.90
1	B	895	LEU	N-CA-C	18.02	138.28	108.90
1	C	895	LEU	N-CA-C	18.02	138.27	108.90
1	C	77	LYS	CA-C-N	17.98	139.15	119.92
1	C	77	LYS	C-N-CA	17.98	139.15	119.92
1	A	77	LYS	CA-C-N	17.96	139.14	119.92
1	A	77	LYS	C-N-CA	17.96	139.14	119.92
1	D	77	LYS	CA-C-N	17.94	139.12	119.92
1	D	77	LYS	C-N-CA	17.94	139.12	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	77	LYS	CA-C-N	17.89	139.06	119.92
1	B	77	LYS	C-N-CA	17.89	139.06	119.92
1	B	2347	SER	N-CA-C	17.23	129.51	111.07
1	D	2347	SER	N-CA-C	17.23	129.50	111.07
1	A	2347	SER	N-CA-C	17.18	129.46	111.07
1	C	2347	SER	N-CA-C	17.17	129.44	111.07
1	B	754	GLU	N-CA-C	15.74	128.44	111.28
1	A	754	GLU	N-CA-C	15.72	128.42	111.28
1	C	754	GLU	N-CA-C	15.72	128.42	111.28
1	C	2554	ARG	N-CA-C	15.71	144.26	110.80
1	B	2554	ARG	N-CA-C	15.70	144.24	110.80
1	A	2554	ARG	N-CA-C	15.70	144.24	110.80
1	D	754	GLU	N-CA-C	15.68	128.38	111.28
1	D	2554	ARG	N-CA-C	15.68	144.20	110.80
1	B	67	SER	N-CA-C	15.64	127.81	111.07
1	D	67	SER	N-CA-C	15.63	127.79	111.07
1	C	67	SER	N-CA-C	15.62	127.79	111.07
1	A	67	SER	N-CA-C	15.59	127.75	111.07
1	D	2212	VAL	CA-C-N	14.50	137.97	119.84
1	D	2212	VAL	C-N-CA	14.50	137.97	119.84
1	A	2212	VAL	CA-C-N	14.47	137.93	119.84
1	A	2212	VAL	C-N-CA	14.47	137.93	119.84
1	B	2212	VAL	CA-C-N	14.44	137.90	119.84
1	B	2212	VAL	C-N-CA	14.44	137.90	119.84
1	C	2212	VAL	CA-C-N	14.43	137.88	119.84
1	C	2212	VAL	C-N-CA	14.43	137.88	119.84
1	B	1336	ASN	N-CA-C	14.40	126.48	111.07
1	A	1336	ASN	N-CA-C	14.40	126.48	111.07
1	C	1336	ASN	N-CA-C	14.39	126.47	111.07
1	D	1336	ASN	N-CA-C	14.37	126.44	111.07
1	B	2720	LYS	CA-C-N	13.80	139.17	120.54
1	B	2720	LYS	C-N-CA	13.80	139.17	120.54
1	D	2720	LYS	CA-C-N	13.79	139.15	120.54
1	D	2720	LYS	C-N-CA	13.79	139.15	120.54
1	C	2720	LYS	CA-C-N	13.78	139.14	120.54
1	C	2720	LYS	C-N-CA	13.78	139.14	120.54
1	A	2720	LYS	CA-C-N	13.77	139.13	120.54
1	A	2720	LYS	C-N-CA	13.77	139.13	120.54
1	C	656	VAL	N-CA-C	13.57	124.46	110.62
1	D	656	VAL	N-CA-C	13.55	124.45	110.62
1	B	656	VAL	N-CA-C	13.55	124.44	110.62
1	A	656	VAL	N-CA-C	13.55	124.44	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2619	ASP	N-CA-C	13.46	125.97	111.03
1	A	2619	ASP	N-CA-C	13.42	125.93	111.03
1	D	2619	ASP	N-CA-C	13.42	125.92	111.03
1	C	2619	ASP	N-CA-C	13.41	125.92	111.03
1	D	644	SER	CA-C-N	13.36	146.85	122.13
1	D	644	SER	C-N-CA	13.36	146.85	122.13
1	A	644	SER	CA-C-N	13.35	146.82	122.13
1	A	644	SER	C-N-CA	13.35	146.82	122.13
1	C	644	SER	CA-C-N	13.35	146.82	122.13
1	C	644	SER	C-N-CA	13.35	146.82	122.13
1	B	644	SER	CA-C-N	13.33	146.78	122.13
1	B	644	SER	C-N-CA	13.33	146.78	122.13
1	A	1978	GLU	N-CA-C	13.07	125.53	111.28
1	B	1978	GLU	N-CA-C	13.06	125.51	111.28
1	C	1057	GLY	O-C-N	-13.05	105.73	122.70
1	B	1057	GLY	O-C-N	-13.05	105.73	122.70
1	A	1057	GLY	O-C-N	-13.05	105.74	122.70
1	D	1057	GLY	O-C-N	-13.04	105.75	122.70
1	C	1978	GLU	N-CA-C	13.03	125.49	111.28
1	A	791	ASP	N-CA-C	13.02	128.90	109.24
1	D	791	ASP	N-CA-C	13.02	128.90	109.24
1	D	1978	GLU	N-CA-C	13.02	125.47	111.28
1	B	2219	LEU	N-CA-C	13.02	128.09	108.31
1	B	791	ASP	N-CA-C	13.01	128.88	109.24
1	C	791	ASP	N-CA-C	13.00	128.88	109.24
1	A	2219	LEU	N-CA-C	12.99	128.06	108.31
1	D	2219	LEU	N-CA-C	12.98	128.04	108.31
1	C	2219	LEU	N-CA-C	12.98	128.04	108.31
1	C	628	PRO	O-C-N	-12.49	105.78	122.64
1	B	628	PRO	O-C-N	-12.47	105.80	122.64
1	D	628	PRO	O-C-N	-12.46	105.82	122.64
1	A	628	PRO	O-C-N	-12.45	105.84	122.64
1	C	2347	SER	CA-C-N	12.35	144.21	121.97
1	C	2347	SER	C-N-CA	12.35	144.21	121.97
1	B	2347	SER	CA-C-N	12.33	144.16	121.97
1	B	2347	SER	C-N-CA	12.33	144.16	121.97
1	A	2347	SER	CA-C-N	12.33	144.16	121.97
1	A	2347	SER	C-N-CA	12.33	144.16	121.97
1	D	2347	SER	CA-C-N	12.33	144.16	121.97
1	D	2347	SER	C-N-CA	12.33	144.16	121.97
1	C	723	GLN	N-CA-C	12.20	124.66	111.36
1	A	723	GLN	N-CA-C	12.17	124.62	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	723	GLN	N-CA-C	12.17	124.62	111.36
1	D	723	GLN	N-CA-C	12.14	124.59	111.36
1	B	1628	ASP	N-CA-C	-12.11	98.08	111.28
1	C	1628	ASP	N-CA-C	-12.10	98.09	111.28
1	A	1628	ASP	N-CA-C	-12.07	98.12	111.28
1	D	1628	ASP	N-CA-C	-12.05	98.14	111.28
1	D	1073	PRO	N-CA-C	11.39	124.60	110.70
1	A	1073	PRO	N-CA-C	11.38	124.59	110.70
1	B	1073	PRO	N-CA-C	11.36	124.56	110.70
1	C	1073	PRO	N-CA-C	11.36	124.56	110.70
1	B	1389	LYS	CA-C-N	11.32	143.16	122.09
1	B	1389	LYS	C-N-CA	11.32	143.16	122.09
1	C	1389	LYS	CA-C-N	11.32	143.15	122.09
1	C	1389	LYS	C-N-CA	11.32	143.15	122.09
1	A	1389	LYS	CA-C-N	11.31	143.13	122.09
1	A	1389	LYS	C-N-CA	11.31	143.13	122.09
1	D	1389	LYS	CA-C-N	11.29	143.09	122.09
1	D	1389	LYS	C-N-CA	11.29	143.09	122.09
1	C	2376	CYS	CA-C-N	-11.17	109.25	122.77
1	C	2376	CYS	C-N-CA	-11.17	109.25	122.77
1	A	2376	CYS	CA-C-N	-11.16	109.27	122.77
1	A	2376	CYS	C-N-CA	-11.16	109.27	122.77
1	D	2376	CYS	CA-C-N	-11.14	109.29	122.77
1	D	2376	CYS	C-N-CA	-11.14	109.29	122.77
1	B	2376	CYS	CA-C-N	-11.13	109.30	122.77
1	B	2376	CYS	C-N-CA	-11.13	109.30	122.77
1	C	2175	LYS	CA-C-N	11.06	131.32	119.05
1	C	2175	LYS	C-N-CA	11.06	131.32	119.05
1	A	2175	LYS	CA-C-N	11.05	131.32	119.05
1	A	2175	LYS	C-N-CA	11.05	131.32	119.05
1	D	2175	LYS	CA-C-N	11.01	131.27	119.05
1	D	2175	LYS	C-N-CA	11.01	131.27	119.05
1	B	2175	LYS	CA-C-N	11.00	131.26	119.05
1	B	2175	LYS	C-N-CA	11.00	131.26	119.05
1	A	2167	ASN	N-CA-C	10.99	126.47	110.10
1	B	2167	ASN	N-CA-C	10.97	126.45	110.10
1	D	2167	ASN	N-CA-C	10.97	126.45	110.10
1	C	2167	ASN	N-CA-C	10.96	126.42	110.10
1	D	1286	GLU	N-CA-C	10.75	130.14	107.67
1	C	1286	GLU	N-CA-C	10.74	130.12	107.67
1	B	1286	GLU	N-CA-C	10.73	130.10	107.67
1	A	1286	GLU	N-CA-C	10.73	130.10	107.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1191	SER	N-CA-C	10.61	122.59	111.14
1	D	1191	SER	N-CA-C	10.60	122.58	111.14
1	A	1191	SER	N-CA-C	10.59	122.58	111.14
1	B	1191	SER	N-CA-C	10.58	122.57	111.14
1	B	2189	TYR	N-CA-C	-10.54	99.80	111.07
1	D	2189	TYR	N-CA-C	-10.54	99.80	111.07
1	C	2189	TYR	N-CA-C	-10.53	99.80	111.07
1	A	1982	ARG	N-CA-C	10.53	124.47	112.57
1	B	1982	ARG	N-CA-C	10.52	124.46	112.57
1	A	2189	TYR	N-CA-C	-10.52	99.81	111.07
1	C	1982	ARG	N-CA-C	10.52	124.45	112.57
1	D	1982	ARG	N-CA-C	10.50	124.44	112.57
1	C	880	ASN	N-CA-C	10.47	127.03	114.04
1	C	646	PRO	N-CA-C	10.47	128.08	113.53
1	B	880	ASN	N-CA-C	10.46	127.01	114.04
1	A	880	ASN	N-CA-C	10.46	127.01	114.04
1	A	646	PRO	N-CA-C	10.46	128.06	113.53
1	D	646	PRO	N-CA-C	10.44	128.04	113.53
1	B	646	PRO	N-CA-C	10.44	128.03	113.53
1	D	880	ASN	N-CA-C	10.42	126.97	114.04
1	C	1415	CYS	CA-C-N	10.42	141.41	122.13
1	C	1415	CYS	C-N-CA	10.42	141.41	122.13
1	A	1415	CYS	CA-C-N	10.42	141.40	122.13
1	A	1415	CYS	C-N-CA	10.42	141.40	122.13
1	D	1415	CYS	CA-C-N	10.41	141.38	122.13
1	D	1415	CYS	C-N-CA	10.41	141.38	122.13
1	B	1415	CYS	CA-C-N	10.40	141.37	122.13
1	B	1415	CYS	C-N-CA	10.40	141.37	122.13
1	A	2203	ARG	CA-CB-CG	10.23	134.57	114.10
1	D	630	PHE	N-CA-C	10.23	125.14	112.87
1	C	2203	ARG	CA-CB-CG	10.23	134.56	114.10
1	B	630	PHE	N-CA-C	10.22	125.14	112.87
1	A	630	PHE	N-CA-C	10.22	125.14	112.87
1	D	2203	ARG	CA-CB-CG	10.22	134.55	114.10
1	B	2203	ARG	CA-CB-CG	10.21	134.51	114.10
1	C	630	PHE	N-CA-C	10.21	125.12	112.87
1	D	2203	ARG	CB-CG-CD	10.18	134.70	111.30
1	B	2203	ARG	CB-CG-CD	10.17	134.69	111.30
1	A	2203	ARG	CB-CG-CD	10.16	134.67	111.30
1	C	2203	ARG	CB-CG-CD	10.15	134.65	111.30
1	D	2195	GLN	CA-CB-CG	10.09	134.29	114.10
1	C	2195	GLN	CA-CB-CG	10.09	134.27	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2195	GLN	CA-CB-CG	10.08	134.25	114.10
1	B	2195	GLN	CA-CB-CG	10.07	134.24	114.10
1	D	2423	ARG	N-CA-C	9.85	125.15	109.79
1	C	2554	ARG	N-CA-CB	-9.84	93.86	110.49
1	A	2423	ARG	N-CA-C	9.84	125.14	109.79
1	B	2423	ARG	N-CA-C	9.83	125.13	109.79
1	A	1803	GLY	N-CA-C	-9.83	101.15	115.30
1	C	2423	ARG	N-CA-C	9.83	125.12	109.79
1	B	1803	GLY	N-CA-C	-9.82	101.16	115.30
1	C	1803	GLY	N-CA-C	-9.82	101.16	115.30
1	D	1803	GLY	N-CA-C	-9.81	101.17	115.30
1	A	2554	ARG	N-CA-CB	-9.81	93.91	110.49
1	D	2554	ARG	N-CA-CB	-9.80	93.92	110.49
1	B	2554	ARG	N-CA-CB	-9.80	93.93	110.49
1	C	1268	LEU	N-CA-C	9.77	124.60	108.08
1	D	1268	LEU	N-CA-C	9.76	124.58	108.08
1	B	1268	LEU	N-CA-C	9.75	124.56	108.08
1	A	1268	LEU	N-CA-C	9.75	124.56	108.08
1	D	1633	PRO	N-CA-C	-9.73	100.01	113.53
1	C	1633	PRO	N-CA-C	-9.73	100.01	113.53
1	A	1633	PRO	N-CA-C	-9.71	100.04	113.53
1	B	1633	PRO	N-CA-C	-9.69	100.06	113.53
1	C	995	CYS	N-CA-C	9.60	121.74	111.28
1	B	995	CYS	N-CA-C	9.59	121.73	111.28
1	A	995	CYS	N-CA-C	9.58	121.72	111.28
1	D	995	CYS	N-CA-C	9.58	121.72	111.28
1	D	1389	LYS	O-C-N	9.32	134.26	122.89
1	B	1389	LYS	O-C-N	9.29	134.22	122.89
1	A	1389	LYS	O-C-N	9.28	134.21	122.89
1	B	629	ARG	O-C-N	-9.27	110.38	122.61
1	C	1389	LYS	O-C-N	9.26	134.19	122.89
1	C	629	ARG	O-C-N	-9.24	110.41	122.61
1	A	629	ARG	O-C-N	-9.24	110.41	122.61
1	D	629	ARG	O-C-N	-9.21	110.45	122.61
1	B	2273	MET	N-CA-C	-9.17	101.26	111.07
1	D	2273	MET	N-CA-C	-9.16	101.27	111.07
1	A	2273	MET	N-CA-C	-9.15	101.28	111.07
1	C	2273	MET	N-CA-C	-9.10	101.33	111.07
1	B	2219	LEU	CB-CA-C	-9.02	106.16	116.54
1	A	2219	LEU	CB-CA-C	-9.00	106.19	116.54
1	D	2219	LEU	CB-CA-C	-8.99	106.20	116.54
1	C	1651	GLY	N-CA-C	8.98	127.72	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2219	LEU	CB-CA-C	-8.98	106.21	116.54
1	B	1651	GLY	N-CA-C	8.97	127.71	111.02
1	A	1651	GLY	N-CA-C	8.97	127.71	111.02
1	D	1651	GLY	N-CA-C	8.95	127.67	111.02
1	D	1073	PRO	CA-C-N	-8.94	108.66	119.84
1	D	1073	PRO	C-N-CA	-8.94	108.66	119.84
1	A	1073	PRO	CA-C-N	-8.91	108.70	119.84
1	A	1073	PRO	C-N-CA	-8.91	108.70	119.84
1	C	1073	PRO	CA-C-N	-8.91	108.70	119.84
1	C	1073	PRO	C-N-CA	-8.91	108.70	119.84
1	B	1073	PRO	CA-C-N	-8.90	108.72	119.84
1	B	1073	PRO	C-N-CA	-8.90	108.72	119.84
1	D	2580	ILE	CA-C-N	-8.85	111.84	121.84
1	D	2580	ILE	C-N-CA	-8.85	111.84	121.84
1	C	2580	ILE	CA-C-N	-8.82	111.88	121.84
1	C	2580	ILE	C-N-CA	-8.82	111.88	121.84
1	A	2580	ILE	CA-C-N	-8.81	111.88	121.84
1	A	2580	ILE	C-N-CA	-8.81	111.88	121.84
1	B	2580	ILE	CA-C-N	-8.79	111.91	121.84
1	B	2580	ILE	C-N-CA	-8.79	111.91	121.84
1	B	1523	ASN	N-CA-C	-8.57	101.88	111.14
1	C	1523	ASN	N-CA-C	-8.56	101.90	111.14
1	A	1523	ASN	N-CA-C	-8.55	101.91	111.14
1	D	1523	ASN	N-CA-C	-8.54	101.92	111.14
1	D	2268	TRP	CA-C-N	8.45	131.60	120.28
1	D	2268	TRP	C-N-CA	8.45	131.60	120.28
1	B	2268	TRP	CA-C-N	8.43	131.58	120.28
1	B	2268	TRP	C-N-CA	8.43	131.58	120.28
1	A	2268	TRP	CA-C-N	8.43	131.58	120.28
1	A	2268	TRP	C-N-CA	8.43	131.58	120.28
1	B	1407	VAL	N-CA-C	8.42	118.44	110.53
1	C	2268	TRP	CA-C-N	8.42	131.56	120.28
1	C	2268	TRP	C-N-CA	8.42	131.56	120.28
1	D	1280	ASN	N-CA-C	8.41	120.45	111.28
1	C	1280	ASN	N-CA-C	8.41	120.44	111.28
1	D	1407	VAL	N-CA-C	8.39	118.42	110.53
1	C	1407	VAL	N-CA-C	8.38	118.41	110.53
1	A	1280	ASN	N-CA-C	8.38	120.41	111.28
1	A	1407	VAL	N-CA-C	8.37	118.40	110.53
1	B	1280	ASN	N-CA-C	8.37	120.40	111.28
1	B	2413	TYR	N-CA-C	8.27	120.29	111.28
1	D	2413	TYR	N-CA-C	8.26	120.28	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2413	TYR	N-CA-C	8.25	120.27	111.28
1	A	2413	TYR	N-CA-C	8.24	120.27	111.28
1	D	2412	PHE	CA-C-N	-8.23	109.25	120.28
1	D	2412	PHE	C-N-CA	-8.23	109.25	120.28
1	A	2412	PHE	CA-C-N	-8.22	109.26	120.28
1	A	2412	PHE	C-N-CA	-8.22	109.26	120.28
1	B	2412	PHE	CA-C-N	-8.22	109.27	120.28
1	B	2412	PHE	C-N-CA	-8.22	109.27	120.28
1	C	2412	PHE	CA-C-N	-8.20	109.29	120.28
1	C	2412	PHE	C-N-CA	-8.20	109.29	120.28
1	A	587	TYR	N-CA-C	-8.12	102.28	113.56
1	C	2409	HIS	N-CA-C	-8.11	98.47	110.23
1	B	2409	HIS	N-CA-C	-8.10	98.48	110.23
1	B	587	TYR	N-CA-C	-8.09	102.31	113.56
1	A	2409	HIS	N-CA-C	-8.09	98.50	110.23
1	D	2409	HIS	N-CA-C	-8.09	98.49	110.23
1	D	587	TYR	N-CA-C	-8.09	102.32	113.56
1	C	587	TYR	N-CA-C	-8.08	102.33	113.56
1	D	2266	LEU	N-CA-C	8.08	122.40	112.54
1	A	2266	LEU	N-CA-C	8.07	122.39	112.54
1	B	526	PRO	CA-N-CD	-8.07	100.70	112.00
1	C	526	PRO	CA-N-CD	-8.06	100.71	112.00
1	D	526	PRO	CA-N-CD	-8.06	100.71	112.00
1	C	2266	LEU	N-CA-C	8.06	122.38	112.54
1	B	2266	LEU	N-CA-C	8.05	122.36	112.54
1	A	526	PRO	CA-N-CD	-8.05	100.74	112.00
1	C	2630	GLU	CA-CB-CG	8.02	130.13	114.10
1	D	2630	GLU	CA-CB-CG	8.01	130.12	114.10
1	A	2630	GLU	CA-CB-CG	7.99	130.08	114.10
1	B	2630	GLU	CA-CB-CG	7.98	130.07	114.10
1	A	1409	VAL	N-CA-C	-7.83	101.26	111.05
1	B	1409	VAL	N-CA-C	-7.83	101.27	111.05
1	D	2582	LEU	CA-C-N	-7.82	109.96	122.24
1	D	2582	LEU	C-N-CA	-7.82	109.96	122.24
1	B	2582	LEU	CA-C-N	-7.82	109.97	122.24
1	B	2582	LEU	C-N-CA	-7.82	109.97	122.24
1	C	2582	LEU	CA-C-N	-7.81	109.98	122.24
1	C	2582	LEU	C-N-CA	-7.81	109.98	122.24
1	C	1409	VAL	N-CA-C	-7.80	101.30	111.05
1	A	2582	LEU	CA-C-N	-7.80	109.99	122.24
1	A	2582	LEU	C-N-CA	-7.80	109.99	122.24
1	D	1409	VAL	N-CA-C	-7.79	101.31	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2336	LEU	N-CA-C	7.74	123.22	112.93
1	D	1485	SER	N-CA-C	7.72	120.84	108.41
1	A	1485	SER	N-CA-C	7.72	120.84	108.41
1	C	2336	LEU	N-CA-C	7.72	123.19	112.93
1	B	2336	LEU	N-CA-C	7.72	123.19	112.93
1	C	1485	SER	N-CA-C	7.70	120.81	108.41
1	B	1485	SER	N-CA-C	7.70	120.80	108.41
1	A	2336	LEU	N-CA-C	7.70	123.17	112.93
1	B	2617	GLU	N-CA-C	-7.67	95.18	108.52
1	C	2617	GLU	N-CA-C	-7.67	95.18	108.52
1	A	2617	GLU	N-CA-C	-7.64	95.23	108.52
1	D	2617	GLU	N-CA-C	-7.64	95.23	108.52
1	C	2335	ALA	O-C-N	-7.62	110.81	123.00
1	A	2335	ALA	O-C-N	-7.59	110.85	123.00
1	B	2335	ALA	O-C-N	-7.59	110.86	123.00
1	D	2335	ALA	O-C-N	-7.58	110.87	123.00
1	C	2231	THR	CA-C-N	7.57	136.00	121.54
1	C	2231	THR	C-N-CA	7.57	136.00	121.54
1	A	2231	THR	CA-C-N	7.57	135.99	121.54
1	A	2231	THR	C-N-CA	7.57	135.99	121.54
1	D	2231	THR	CA-C-N	7.57	135.99	121.54
1	D	2231	THR	C-N-CA	7.57	135.99	121.54
1	B	2231	THR	CA-C-N	7.56	135.99	121.54
1	B	2231	THR	C-N-CA	7.56	135.99	121.54
1	B	396	ASN	CA-C-N	7.50	131.36	120.71
1	B	396	ASN	C-N-CA	7.50	131.36	120.71
1	A	396	ASN	CA-C-N	7.49	131.34	120.71
1	A	396	ASN	C-N-CA	7.49	131.34	120.71
1	D	396	ASN	CA-C-N	7.49	131.34	120.71
1	D	396	ASN	C-N-CA	7.49	131.34	120.71
1	C	396	ASN	CA-C-N	7.45	131.29	120.71
1	C	396	ASN	C-N-CA	7.45	131.29	120.71
1	C	397	THR	N-CA-C	7.34	120.88	110.23
1	D	397	THR	N-CA-C	7.33	120.86	110.23
1	A	397	THR	N-CA-C	7.31	120.83	110.23
1	B	397	THR	N-CA-C	7.29	120.80	110.23
1	D	2174	LEU	CA-C-N	7.27	129.18	120.09
1	D	2174	LEU	C-N-CA	7.27	129.18	120.09
1	B	2174	LEU	CA-C-N	7.26	129.16	120.09
1	B	2174	LEU	C-N-CA	7.26	129.16	120.09
1	A	2174	LEU	CA-C-N	7.26	129.16	120.09
1	A	2174	LEU	C-N-CA	7.26	129.16	120.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2145	GLY	N-CA-C	7.23	121.23	112.48
1	C	2145	GLY	N-CA-C	7.22	121.22	112.48
1	C	2174	LEU	CA-C-N	7.20	129.09	120.09
1	C	2174	LEU	C-N-CA	7.20	129.09	120.09
1	C	2176	PRO	N-CA-C	-7.19	103.53	113.53
1	D	2176	PRO	N-CA-C	-7.18	103.55	113.53
1	B	2145	GLY	N-CA-C	7.17	121.16	112.48
1	A	2176	PRO	N-CA-C	-7.17	103.57	113.53
1	D	2145	GLY	N-CA-C	7.17	121.15	112.48
1	C	1072	TYR	CA-C-N	-7.16	113.01	120.38
1	C	1072	TYR	C-N-CA	-7.16	113.01	120.38
1	B	1072	TYR	CA-C-N	-7.14	113.03	120.38
1	B	1072	TYR	C-N-CA	-7.14	113.03	120.38
1	B	2176	PRO	N-CA-C	-7.14	103.61	113.53
1	A	1072	TYR	CA-C-N	-7.14	113.03	120.38
1	A	1072	TYR	C-N-CA	-7.14	113.03	120.38
1	C	2231	THR	N-CA-C	7.13	125.99	110.80
1	A	1628	ASP	CA-C-N	-7.12	110.30	120.42
1	A	1628	ASP	C-N-CA	-7.12	110.30	120.42
1	D	1072	TYR	CA-C-N	-7.12	113.04	120.38
1	D	1072	TYR	C-N-CA	-7.12	113.04	120.38
1	B	1628	ASP	CA-C-N	-7.12	110.31	120.42
1	B	1628	ASP	C-N-CA	-7.12	110.31	120.42
1	D	1628	ASP	CA-C-N	-7.12	110.31	120.42
1	D	1628	ASP	C-N-CA	-7.12	110.31	120.42
1	C	2616	LEU	O-C-N	7.11	131.33	123.22
1	C	1628	ASP	CA-C-N	-7.11	110.32	120.42
1	C	1628	ASP	C-N-CA	-7.11	110.32	120.42
1	B	2231	THR	N-CA-C	7.11	125.94	110.80
1	A	629	ARG	N-CA-C	7.10	121.71	110.70
1	A	2231	THR	N-CA-C	7.10	125.93	110.80
1	B	2616	LEU	CA-C-N	7.10	133.62	122.26
1	B	2616	LEU	C-N-CA	7.10	133.62	122.26
1	D	2231	THR	N-CA-C	7.10	125.91	110.80
1	B	629	ARG	N-CA-C	7.09	121.69	110.70
1	C	629	ARG	N-CA-C	7.09	121.69	110.70
1	A	2616	LEU	CA-C-N	7.09	133.60	122.26
1	A	2616	LEU	C-N-CA	7.09	133.60	122.26
1	D	629	ARG	N-CA-C	7.09	121.69	110.70
1	D	2616	LEU	CA-C-N	7.08	133.59	122.26
1	D	2616	LEU	C-N-CA	7.08	133.59	122.26
1	C	2616	LEU	CA-C-N	7.06	133.55	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2616	LEU	C-N-CA	7.06	133.55	122.26
1	A	2616	LEU	O-C-N	7.05	131.26	123.22
1	C	1792	LEU	N-CA-C	-7.05	103.59	111.28
1	B	2616	LEU	O-C-N	7.05	131.26	123.22
1	D	65	ARG	CA-C-N	7.04	132.48	120.72
1	D	65	ARG	C-N-CA	7.04	132.48	120.72
1	C	65	ARG	CA-C-N	7.04	132.47	120.72
1	C	65	ARG	C-N-CA	7.04	132.47	120.72
1	B	1792	LEU	N-CA-C	-7.04	103.61	111.28
1	D	2616	LEU	O-C-N	7.03	131.24	123.22
1	A	65	ARG	CA-C-N	7.03	132.46	120.72
1	A	65	ARG	C-N-CA	7.03	132.46	120.72
1	D	1792	LEU	N-CA-C	-7.02	103.63	111.28
1	A	1792	LEU	N-CA-C	-7.02	103.63	111.28
1	D	1277	PHE	N-CA-C	7.01	121.28	112.87
1	C	1277	PHE	N-CA-C	7.01	121.28	112.87
1	B	1277	PHE	N-CA-C	7.00	121.27	112.87
1	A	302	LEU	N-CA-C	-7.00	102.29	111.74
1	A	1277	PHE	N-CA-C	6.99	121.26	112.87
1	B	65	ARG	CA-C-N	6.99	132.39	120.72
1	B	65	ARG	C-N-CA	6.99	132.39	120.72
1	B	393	LEU	O-C-N	-6.98	112.94	122.23
1	B	302	LEU	N-CA-C	-6.98	102.32	111.74
1	D	1242	GLN	N-CA-C	-6.96	103.69	111.28
1	A	393	LEU	O-C-N	-6.96	112.97	122.23
1	D	302	LEU	N-CA-C	-6.96	102.34	111.74
1	C	302	LEU	N-CA-C	-6.95	102.35	111.74
1	C	2214	SER	N-CA-C	6.95	118.85	111.28
1	B	1242	GLN	N-CA-C	-6.94	103.71	111.28
1	A	1242	GLN	N-CA-C	-6.94	103.72	111.28
1	D	393	LEU	O-C-N	-6.94	113.00	122.23
1	C	1242	GLN	N-CA-C	-6.93	103.73	111.28
1	A	2214	SER	N-CA-C	6.92	118.83	111.28
1	B	2214	SER	N-CA-C	6.92	118.82	111.28
1	C	393	LEU	O-C-N	-6.92	113.03	122.23
1	D	2214	SER	N-CA-C	6.91	118.82	111.28
1	C	2221	LYS	CA-C-O	6.87	127.01	119.24
1	D	2221	LYS	CA-C-O	6.87	127.00	119.24
1	A	2221	LYS	CA-C-O	6.86	126.99	119.24
1	B	2221	LYS	CA-C-O	6.83	126.96	119.24
1	A	2582	LEU	N-CA-C	-6.78	104.88	113.02
1	C	2582	LEU	N-CA-C	-6.78	104.89	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2582	LEU	N-CA-C	-6.77	104.89	113.02
1	B	2582	LEU	N-CA-C	-6.76	104.90	113.02
1	D	1398	ASN	N-CA-C	6.72	118.27	111.07
1	A	1398	ASN	N-CA-C	6.71	118.25	111.07
1	B	1398	ASN	N-CA-C	6.70	118.24	111.07
1	B	391	ARG	CA-C-N	-6.69	110.34	122.12
1	B	391	ARG	C-N-CA	-6.69	110.34	122.12
1	A	391	ARG	CA-C-N	-6.67	110.37	122.12
1	A	391	ARG	C-N-CA	-6.67	110.37	122.12
1	C	391	ARG	CA-C-N	-6.67	110.38	122.12
1	C	391	ARG	C-N-CA	-6.67	110.38	122.12
1	D	2717	SER	N-CA-C	6.67	118.21	111.07
1	D	391	ARG	CA-C-N	-6.67	110.38	122.12
1	D	391	ARG	C-N-CA	-6.67	110.38	122.12
1	C	1398	ASN	N-CA-C	6.67	118.20	111.07
1	A	2717	SER	N-CA-C	6.65	118.19	111.07
1	B	2717	SER	N-CA-C	6.64	118.18	111.07
1	B	2195	GLN	CB-CG-CD	6.63	123.87	112.60
1	A	2195	GLN	CB-CG-CD	6.63	123.87	112.60
1	C	2717	SER	N-CA-C	6.63	118.16	111.07
1	A	2228	TYR	CB-CA-C	-6.62	100.49	110.88
1	C	2195	GLN	CB-CG-CD	6.62	123.85	112.60
1	C	2228	TYR	CB-CA-C	-6.62	100.50	110.88
1	D	2228	TYR	CB-CA-C	-6.61	100.50	110.88
1	B	2228	TYR	CB-CA-C	-6.61	100.50	110.88
1	D	2195	GLN	CB-CG-CD	6.60	123.83	112.60
1	B	378	GLY	N-CA-C	-6.58	97.59	113.18
1	A	378	GLY	N-CA-C	-6.58	97.59	113.18
1	C	378	GLY	N-CA-C	-6.57	97.61	113.18
1	A	1391	VAL	N-CA-C	-6.57	104.36	110.53
1	D	1391	VAL	N-CA-C	-6.56	104.36	110.53
1	B	68	ALA	CA-C-N	6.55	129.06	120.28
1	B	68	ALA	C-N-CA	6.55	129.06	120.28
1	D	378	GLY	N-CA-C	-6.55	97.65	113.18
1	C	894	ILE	CA-C-N	-6.55	113.75	122.99
1	C	894	ILE	C-N-CA	-6.55	113.75	122.99
1	A	68	ALA	CA-C-N	6.54	129.04	120.28
1	A	68	ALA	C-N-CA	6.54	129.04	120.28
1	C	1112	TYR	N-CA-C	-6.54	104.19	111.71
1	C	1391	VAL	N-CA-C	-6.54	104.38	110.53
1	B	1391	VAL	N-CA-C	-6.54	104.38	110.53
1	C	68	ALA	CA-C-N	6.54	129.04	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	68	ALA	C-N-CA	6.54	129.04	120.28
1	D	2171	GLN	N-CA-C	-6.53	104.16	111.28
1	D	68	ALA	CA-C-N	6.53	129.03	120.28
1	D	68	ALA	C-N-CA	6.53	129.03	120.28
1	B	894	ILE	CA-C-N	-6.53	113.78	122.99
1	B	894	ILE	C-N-CA	-6.53	113.78	122.99
1	D	1112	TYR	N-CA-C	-6.53	104.20	111.71
1	A	894	ILE	CA-C-N	-6.52	113.79	122.99
1	A	894	ILE	C-N-CA	-6.52	113.79	122.99
1	A	2171	GLN	N-CA-C	-6.52	104.17	111.28
1	D	894	ILE	CA-C-N	-6.51	113.80	122.99
1	D	894	ILE	C-N-CA	-6.51	113.80	122.99
1	A	1112	TYR	N-CA-C	-6.51	104.22	111.71
1	D	2577	VAL	CA-C-N	-6.51	112.23	120.56
1	D	2577	VAL	C-N-CA	-6.51	112.23	120.56
1	C	2280	SER	CA-C-N	-6.51	111.59	120.44
1	C	2280	SER	C-N-CA	-6.51	111.59	120.44
1	C	2577	VAL	CA-C-N	-6.51	112.23	120.56
1	C	2577	VAL	C-N-CA	-6.51	112.23	120.56
1	B	2171	GLN	N-CA-C	-6.51	104.19	111.28
1	B	2280	SER	CA-C-N	-6.50	111.60	120.44
1	B	2280	SER	C-N-CA	-6.50	111.60	120.44
1	A	2280	SER	CA-C-N	-6.50	111.60	120.44
1	A	2280	SER	C-N-CA	-6.50	111.60	120.44
1	B	2577	VAL	CA-C-N	-6.50	112.24	120.56
1	B	2577	VAL	C-N-CA	-6.50	112.24	120.56
1	D	2280	SER	CA-C-N	-6.50	111.60	120.44
1	D	2280	SER	C-N-CA	-6.50	111.60	120.44
1	C	2171	GLN	N-CA-C	-6.50	104.20	111.28
1	B	1112	TYR	N-CA-C	-6.49	104.25	111.71
1	A	2577	VAL	CA-C-N	-6.49	112.25	120.56
1	A	2577	VAL	C-N-CA	-6.49	112.25	120.56
1	D	1089	GLN	CA-C-N	-6.44	112.23	122.08
1	D	1089	GLN	C-N-CA	-6.44	112.23	122.08
1	C	1089	GLN	CA-C-N	-6.42	112.25	122.08
1	C	1089	GLN	C-N-CA	-6.42	112.25	122.08
1	A	1089	GLN	CA-C-N	-6.42	112.26	122.08
1	A	1089	GLN	C-N-CA	-6.42	112.26	122.08
1	A	2412	PHE	CB-CA-C	6.42	121.44	110.79
1	D	2412	PHE	CB-CA-C	6.42	121.45	110.79
1	C	2412	PHE	CB-CA-C	6.41	121.44	110.79
1	C	2577	VAL	N-CA-CB	6.41	118.77	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2412	PHE	CB-CA-C	6.39	121.40	110.79
1	D	2016	GLY	N-CA-C	-6.39	101.01	110.97
1	B	1089	GLN	CA-C-N	-6.38	112.31	122.08
1	B	1089	GLN	C-N-CA	-6.38	112.31	122.08
1	A	2577	VAL	N-CA-CB	6.37	118.72	110.57
1	D	2577	VAL	N-CA-CB	6.37	118.73	110.57
1	B	2577	VAL	N-CA-CB	6.36	118.71	110.57
1	B	2016	GLY	N-CA-C	-6.36	101.05	110.97
1	D	2181	ASP	N-CA-C	-6.36	97.33	108.20
1	C	2016	GLY	N-CA-C	-6.35	101.06	110.97
1	A	2016	GLY	N-CA-C	-6.35	101.06	110.97
1	D	1793	ALA	N-CA-C	-6.35	104.44	111.36
1	C	2578	ILE	CA-C-N	-6.35	110.40	120.55
1	C	2578	ILE	C-N-CA	-6.35	110.40	120.55
1	A	2578	ILE	CA-C-N	-6.34	110.40	120.55
1	A	2578	ILE	C-N-CA	-6.34	110.40	120.55
1	B	1793	ALA	N-CA-C	-6.33	104.46	111.36
1	B	2181	ASP	N-CA-C	-6.33	97.37	108.20
1	A	1793	ALA	N-CA-C	-6.33	104.46	111.36
1	C	2181	ASP	N-CA-C	-6.33	97.38	108.20
1	B	2578	ILE	CA-C-N	-6.33	110.42	120.55
1	B	2578	ILE	C-N-CA	-6.33	110.42	120.55
1	A	2181	ASP	N-CA-C	-6.33	97.38	108.20
1	D	2578	ILE	CA-C-N	-6.32	110.43	120.55
1	D	2578	ILE	C-N-CA	-6.32	110.43	120.55
1	C	1793	ALA	N-CA-C	-6.32	104.47	111.36
1	B	1801	LYS	N-CA-C	-6.30	104.33	111.14
1	A	1801	LYS	N-CA-C	-6.30	104.33	111.14
1	A	2275	PHE	N-CA-C	6.30	117.81	111.07
1	D	2375	ASN	CA-C-N	-6.30	113.88	123.07
1	D	2375	ASN	C-N-CA	-6.30	113.88	123.07
1	C	1801	LYS	N-CA-C	-6.30	104.34	111.14
1	D	1801	LYS	N-CA-C	-6.29	104.34	111.14
1	C	2375	ASN	CA-C-N	-6.29	113.88	123.07
1	C	2375	ASN	C-N-CA	-6.29	113.88	123.07
1	D	2275	PHE	N-CA-C	6.29	117.80	111.07
1	B	2265	VAL	O-C-N	-6.28	113.82	122.05
1	B	2375	ASN	CA-C-N	-6.28	113.90	123.07
1	B	2375	ASN	C-N-CA	-6.28	113.90	123.07
1	C	1613	ASP	O-C-N	6.27	128.77	122.12
1	B	2275	PHE	N-CA-C	6.27	117.78	111.07
1	A	894	ILE	N-CA-C	6.27	117.02	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2375	ASN	CA-C-N	-6.27	113.92	123.07
1	A	2375	ASN	C-N-CA	-6.27	113.92	123.07
1	C	894	ILE	N-CA-C	6.27	117.01	110.62
1	A	2265	VAL	O-C-N	-6.26	113.84	122.05
1	C	2265	VAL	O-C-N	-6.26	113.85	122.05
1	B	894	ILE	N-CA-C	6.26	117.00	110.62
1	C	2275	PHE	N-CA-C	6.26	117.77	111.07
1	A	1613	ASP	O-C-N	6.25	128.75	122.12
1	D	894	ILE	N-CA-C	6.25	117.00	110.62
1	C	2168	LYS	N-CA-C	-6.25	104.55	111.36
1	D	2265	VAL	O-C-N	-6.24	113.88	122.05
1	A	2168	LYS	N-CA-C	-6.24	104.56	111.36
1	B	1613	ASP	O-C-N	6.23	128.72	122.12
1	D	1613	ASP	O-C-N	6.23	128.72	122.12
1	D	2168	LYS	N-CA-C	-6.20	104.60	111.36
1	B	2630	GLU	CB-CG-CD	6.20	123.14	112.60
1	D	2625	THR	N-CA-CB	6.19	120.96	110.49
1	B	2168	LYS	N-CA-C	-6.19	104.61	111.36
1	A	2630	GLU	CB-CG-CD	6.19	123.12	112.60
1	C	2625	THR	N-CA-CB	6.17	120.92	110.49
1	C	2630	GLU	CB-CG-CD	6.17	123.09	112.60
1	A	2625	THR	N-CA-CB	6.17	120.91	110.49
1	D	2336	LEU	CA-C-O	6.16	128.38	120.07
1	D	2630	GLU	CB-CG-CD	6.15	123.06	112.60
1	C	1397	CYS	N-CA-C	-6.14	104.58	111.28
1	B	1397	CYS	N-CA-C	-6.14	104.59	111.28
1	C	2336	LEU	CA-C-O	6.13	128.35	120.07
1	B	2625	THR	N-CA-CB	6.13	120.85	110.49
1	A	1397	CYS	N-CA-C	-6.13	104.60	111.28
1	A	2336	LEU	CA-C-O	6.13	128.35	120.07
1	B	2336	LEU	CA-C-O	6.12	128.33	120.07
1	B	66	TYR	CA-CB-CG	6.10	124.88	113.90
1	A	66	TYR	CA-CB-CG	6.10	124.88	113.90
1	C	301	SER	N-CA-C	6.09	118.00	111.36
1	B	879	TYR	O-C-N	-6.09	116.87	123.26
1	A	879	TYR	O-C-N	-6.09	116.87	123.26
1	D	1397	CYS	N-CA-C	-6.09	104.64	111.28
1	D	66	TYR	CA-CB-CG	6.08	124.85	113.90
1	C	66	TYR	CA-CB-CG	6.08	124.84	113.90
1	A	301	SER	N-CA-C	6.08	117.98	111.36
1	C	879	TYR	O-C-N	-6.08	116.88	123.26
1	D	879	TYR	O-C-N	-6.07	116.89	123.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	301	SER	N-CA-C	6.07	117.97	111.36
1	D	301	SER	N-CA-C	6.06	117.96	111.36
1	B	397	THR	CA-C-N	-6.05	114.13	122.30
1	B	397	THR	C-N-CA	-6.05	114.13	122.30
1	A	397	THR	CA-C-N	-6.05	114.13	122.30
1	A	397	THR	C-N-CA	-6.05	114.13	122.30
1	C	2660	GLU	CA-CB-CG	6.05	126.20	114.10
1	D	397	THR	CA-C-N	-6.05	114.14	122.30
1	D	397	THR	C-N-CA	-6.05	114.14	122.30
1	B	2660	GLU	CA-CB-CG	6.04	126.18	114.10
1	A	2660	GLU	CA-CB-CG	6.04	126.18	114.10
1	C	397	THR	CA-C-N	-6.03	114.16	122.30
1	C	397	THR	C-N-CA	-6.03	114.16	122.30
1	D	656	VAL	CA-C-N	6.03	133.05	121.54
1	D	656	VAL	C-N-CA	6.03	133.05	121.54
1	B	656	VAL	CA-C-N	6.02	133.04	121.54
1	B	656	VAL	C-N-CA	6.02	133.04	121.54
1	D	2660	GLU	CA-CB-CG	6.02	126.14	114.10
1	A	656	VAL	CA-C-N	6.01	133.01	121.54
1	A	656	VAL	C-N-CA	6.01	133.01	121.54
1	C	2189	TYR	CA-C-N	-6.01	110.07	121.54
1	C	2189	TYR	C-N-CA	-6.01	110.07	121.54
1	A	2189	TYR	CA-C-N	-6.00	110.08	121.54
1	A	2189	TYR	C-N-CA	-6.00	110.08	121.54
1	D	2189	TYR	CA-C-N	-6.00	110.08	121.54
1	D	2189	TYR	C-N-CA	-6.00	110.08	121.54
1	B	2189	TYR	CA-C-N	-5.99	110.10	121.54
1	B	2189	TYR	C-N-CA	-5.99	110.10	121.54
1	B	67	SER	CB-CA-C	-5.99	101.48	110.88
1	D	67	SER	CB-CA-C	-5.99	101.48	110.88
1	C	656	VAL	CA-C-N	5.98	132.97	121.54
1	C	656	VAL	C-N-CA	5.98	132.97	121.54
1	D	2173	MET	CA-C-N	5.97	129.39	120.31
1	D	2173	MET	C-N-CA	5.97	129.39	120.31
1	A	67	SER	CB-CA-C	-5.97	101.51	110.88
1	C	67	SER	CB-CA-C	-5.97	101.51	110.88
1	A	600	HIS	N-CA-C	-5.96	100.29	109.76
1	B	600	HIS	N-CA-C	-5.96	100.29	109.76
1	A	2173	MET	CA-C-N	5.95	129.36	120.31
1	A	2173	MET	C-N-CA	5.95	129.36	120.31
1	B	2173	MET	CA-C-N	5.95	129.36	120.31
1	B	2173	MET	C-N-CA	5.95	129.36	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	600	HIS	N-CA-C	-5.95	100.30	109.76
1	D	600	HIS	N-CA-C	-5.95	100.30	109.76
1	C	2173	MET	CA-C-N	5.93	129.33	120.31
1	C	2173	MET	C-N-CA	5.93	129.33	120.31
1	D	2720	LYS	N-CA-C	5.93	117.42	111.07
1	C	2720	LYS	N-CA-C	5.92	117.41	111.07
1	A	2720	LYS	N-CA-C	5.92	117.40	111.07
1	B	2720	LYS	N-CA-C	5.91	117.39	111.07
1	B	2618	ARG	CA-C-N	-5.88	112.63	120.63
1	B	2618	ARG	C-N-CA	-5.88	112.63	120.63
1	A	2618	ARG	CA-C-N	-5.88	112.64	120.63
1	A	2618	ARG	C-N-CA	-5.88	112.64	120.63
1	D	2618	ARG	CA-C-N	-5.87	112.65	120.63
1	D	2618	ARG	C-N-CA	-5.87	112.65	120.63
1	C	2168	LYS	CA-C-N	5.86	128.61	120.29
1	C	2168	LYS	C-N-CA	5.86	128.61	120.29
1	B	2168	LYS	CA-C-N	5.85	128.60	120.29
1	B	2168	LYS	C-N-CA	5.85	128.60	120.29
1	D	2168	LYS	CA-C-N	5.84	128.59	120.29
1	D	2168	LYS	C-N-CA	5.84	128.59	120.29
1	A	2168	LYS	CA-C-N	5.84	128.58	120.29
1	A	2168	LYS	C-N-CA	5.84	128.58	120.29
1	D	80	ALA	N-CA-C	-5.83	104.92	111.28
1	C	2618	ARG	CA-C-N	-5.83	112.70	120.63
1	C	2618	ARG	C-N-CA	-5.83	112.70	120.63
1	A	80	ALA	N-CA-C	-5.82	104.94	111.28
1	A	2210	PHE	N-CA-C	-5.81	95.51	107.95
1	C	2210	PHE	N-CA-C	-5.81	95.51	107.95
1	B	80	ALA	N-CA-C	-5.81	104.95	111.28
1	D	2210	PHE	N-CA-C	-5.80	95.53	107.95
1	A	2177	GLY	N-CA-C	5.79	119.68	112.73
1	B	2210	PHE	N-CA-C	-5.79	95.55	107.95
1	C	80	ALA	N-CA-C	-5.79	104.97	111.28
1	C	2177	GLY	N-CA-C	5.79	119.68	112.73
1	D	2177	GLY	N-CA-C	5.78	119.67	112.73
1	B	2177	GLY	N-CA-C	5.75	119.63	112.73
1	A	2618	ARG	CA-C-O	-5.72	114.45	120.63
1	D	2018	LEU	N-CA-C	5.71	122.97	110.80
1	B	2625	THR	N-CA-C	5.71	122.96	110.80
1	A	2018	LEU	N-CA-C	5.71	122.96	110.80
1	C	603	ARG	N-CA-C	-5.71	106.36	113.55
1	A	603	ARG	N-CA-C	-5.70	106.36	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2018	LEU	N-CA-C	5.70	122.94	110.80
1	B	603	ARG	N-CA-C	-5.70	106.37	113.55
1	D	603	ARG	N-CA-C	-5.70	106.37	113.55
1	D	2625	THR	N-CA-C	5.70	122.94	110.80
1	A	2625	THR	N-CA-C	5.69	122.92	110.80
1	C	2625	THR	N-CA-C	5.69	122.92	110.80
1	A	2619	ASP	CA-C-O	-5.68	115.05	120.90
1	D	2618	ARG	CA-C-O	-5.68	114.50	120.63
1	C	2018	LEU	N-CA-C	5.67	122.88	110.80
1	C	2618	ARG	CA-C-O	-5.67	114.51	120.63
1	B	2618	ARG	CA-C-O	-5.66	114.51	120.63
1	A	2351	GLN	CA-C-N	5.65	125.32	119.05
1	A	2351	GLN	C-N-CA	5.65	125.32	119.05
1	C	2351	GLN	CA-C-N	5.65	125.32	119.05
1	C	2351	GLN	C-N-CA	5.65	125.32	119.05
1	B	1874	THR	N-CA-C	5.64	122.82	110.80
1	B	2278	SER	CA-C-N	-5.64	113.34	120.56
1	B	2278	SER	C-N-CA	-5.64	113.34	120.56
1	D	2351	GLN	CA-C-N	5.64	125.31	119.05
1	D	2351	GLN	C-N-CA	5.64	125.31	119.05
1	A	1874	THR	N-CA-C	5.63	122.80	110.80
1	B	2619	ASP	CA-C-O	-5.63	115.10	120.90
1	C	1874	THR	N-CA-C	5.63	122.79	110.80
1	A	2278	SER	CA-C-N	-5.62	113.36	120.56
1	A	2278	SER	C-N-CA	-5.62	113.36	120.56
1	C	2619	ASP	CA-C-O	-5.62	115.11	120.90
1	D	1874	THR	N-CA-C	5.62	122.77	110.80
1	B	2351	GLN	CA-C-N	5.61	125.28	119.05
1	B	2351	GLN	C-N-CA	5.61	125.28	119.05
1	D	2278	SER	CA-C-N	-5.61	113.38	120.56
1	D	2278	SER	C-N-CA	-5.61	113.38	120.56
1	D	2619	ASP	CA-C-O	-5.58	115.15	120.90
1	C	2278	SER	CA-C-N	-5.58	113.42	120.56
1	C	2278	SER	C-N-CA	-5.58	113.42	120.56
1	D	1390	ASN	N-CA-C	-5.57	99.67	108.14
1	A	1390	ASN	N-CA-C	-5.57	99.67	108.14
1	B	2169	GLU	CA-C-N	5.56	128.28	120.28
1	B	2169	GLU	C-N-CA	5.56	128.28	120.28
1	C	1390	ASN	N-CA-C	-5.56	99.69	108.14
1	A	2458	VAL	CB-CA-C	-5.56	104.86	111.97
1	D	2169	GLU	CA-C-N	5.56	128.28	120.28
1	D	2169	GLU	C-N-CA	5.56	128.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1390	ASN	N-CA-C	-5.55	99.70	108.14
1	D	644	SER	CA-C-O	5.55	127.69	120.81
1	B	2458	VAL	CB-CA-C	-5.55	104.87	111.97
1	C	2169	GLU	CA-C-N	5.54	128.26	120.28
1	C	2169	GLU	C-N-CA	5.54	128.26	120.28
1	C	2458	VAL	CB-CA-C	-5.54	104.88	111.97
1	D	2458	VAL	CB-CA-C	-5.54	104.89	111.97
1	A	2169	GLU	CA-C-N	5.53	128.24	120.28
1	A	2169	GLU	C-N-CA	5.53	128.24	120.28
1	B	644	SER	CA-C-O	5.52	127.66	120.81
1	A	644	SER	CA-C-O	5.52	127.65	120.81
1	C	644	SER	CA-C-O	5.52	127.65	120.81
1	D	2346	PHE	CA-C-N	-5.51	113.28	120.44
1	D	2346	PHE	C-N-CA	-5.51	113.28	120.44
1	A	2227	ILE	N-CA-C	5.51	116.24	110.62
1	C	2227	ILE	N-CA-C	5.51	116.24	110.62
1	B	1993	ASN	N-CA-C	-5.51	105.87	112.59
1	A	1993	ASN	N-CA-C	-5.50	105.88	112.59
1	D	2227	ILE	N-CA-C	5.50	116.23	110.62
1	C	1993	ASN	N-CA-C	-5.50	105.88	112.59
1	D	376	ARG	N-CA-C	5.50	118.29	110.10
1	C	376	ARG	N-CA-C	5.49	118.28	110.10
1	B	2346	PHE	CA-C-N	-5.49	113.30	120.44
1	B	2346	PHE	C-N-CA	-5.49	113.30	120.44
1	B	2227	ILE	N-CA-C	5.49	116.22	110.62
1	D	1993	ASN	N-CA-C	-5.49	105.89	112.59
1	B	2412	PHE	N-CA-CB	5.48	118.18	110.12
1	A	2346	PHE	CA-C-N	-5.48	113.31	120.44
1	A	2346	PHE	C-N-CA	-5.48	113.31	120.44
1	A	376	ARG	N-CA-C	5.48	118.26	110.10
1	B	376	ARG	N-CA-C	5.48	118.26	110.10
1	A	2176	PRO	CA-C-N	5.48	126.06	119.98
1	A	2176	PRO	C-N-CA	5.48	126.06	119.98
1	C	2346	PHE	CA-C-N	-5.47	113.33	120.44
1	C	2346	PHE	C-N-CA	-5.47	113.33	120.44
1	D	2228	TYR	CA-CB-CG	5.47	123.75	113.90
1	C	2228	TYR	CA-CB-CG	5.46	123.74	113.90
1	C	2412	PHE	N-CA-CB	5.46	118.15	110.12
1	A	2228	TYR	CA-CB-CG	5.46	123.73	113.90
1	A	2412	PHE	N-CA-CB	5.46	118.15	110.12
1	A	1058	ARG	N-CA-C	5.46	118.02	108.52
1	D	1058	ARG	N-CA-C	5.46	118.02	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2387	VAL	N-CA-C	5.46	115.66	110.42
1	D	2412	PHE	N-CA-CB	5.45	118.14	110.12
1	C	1058	ARG	N-CA-C	5.45	118.01	108.52
1	B	2228	TYR	CA-CB-CG	5.45	123.70	113.90
1	B	2176	PRO	CA-C-N	5.44	126.02	119.98
1	B	2176	PRO	C-N-CA	5.44	126.02	119.98
1	D	1291	VAL	N-CA-C	-5.43	107.51	113.43
1	C	2574	PHE	CA-C-O	-5.43	115.12	120.82
1	B	1058	ARG	N-CA-C	5.42	117.96	108.52
1	C	2387	VAL	N-CA-C	5.42	115.62	110.42
1	A	2574	PHE	CA-C-O	-5.42	115.13	120.82
1	D	2176	PRO	CA-C-N	5.42	125.99	119.98
1	D	2176	PRO	C-N-CA	5.42	125.99	119.98
1	B	2387	VAL	N-CA-C	5.41	115.61	110.42
1	D	2574	PHE	CA-C-O	-5.41	115.14	120.82
1	A	1291	VAL	N-CA-C	-5.40	107.54	113.43
1	D	2410	GLU	CA-C-N	-5.40	111.22	121.54
1	D	2410	GLU	C-N-CA	-5.40	111.22	121.54
1	A	2387	VAL	N-CA-C	5.40	115.60	110.42
1	B	2194	ALA	N-CA-C	5.40	122.30	110.80
1	C	2176	PRO	CA-C-N	5.40	125.97	119.98
1	C	2176	PRO	C-N-CA	5.40	125.97	119.98
1	B	2574	PHE	CA-C-O	-5.39	115.16	120.82
1	B	1291	VAL	N-CA-C	-5.39	107.56	113.43
1	A	2410	GLU	CA-C-N	-5.39	111.25	121.54
1	A	2410	GLU	C-N-CA	-5.39	111.25	121.54
1	C	2410	GLU	CA-C-N	-5.39	111.25	121.54
1	C	2410	GLU	C-N-CA	-5.39	111.25	121.54
1	D	2194	ALA	N-CA-C	5.38	122.27	110.80
1	A	2194	ALA	N-CA-C	5.38	122.27	110.80
1	C	2194	ALA	N-CA-C	5.38	122.27	110.80
1	B	1059	THR	N-CA-C	5.37	118.94	112.38
1	B	2410	GLU	CA-C-N	-5.37	111.29	121.54
1	B	2410	GLU	C-N-CA	-5.37	111.29	121.54
1	C	1291	VAL	N-CA-C	-5.37	107.58	113.43
1	B	2284	ALA	CA-C-N	-5.37	113.11	120.46
1	B	2284	ALA	C-N-CA	-5.37	113.11	120.46
1	C	2269	CYS	N-CA-CB	-5.36	102.24	110.12
1	C	2624	LYS	CA-C-N	-5.36	111.30	121.54
1	C	2624	LYS	C-N-CA	-5.36	111.30	121.54
1	D	377	GLY	N-CA-C	5.36	125.88	113.18
1	D	2624	LYS	CA-C-N	-5.35	111.32	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2624	LYS	C-N-CA	-5.35	111.32	121.54
1	B	2733	ILE	N-CA-CB	5.35	117.82	110.54
1	D	2733	ILE	N-CA-CB	5.35	117.82	110.54
1	C	2733	ILE	N-CA-CB	5.35	117.82	110.54
1	B	2624	LYS	CA-C-N	-5.35	111.32	121.54
1	B	2624	LYS	C-N-CA	-5.35	111.32	121.54
1	A	1059	THR	N-CA-C	5.35	118.90	112.38
1	A	377	GLY	N-CA-C	5.35	125.85	113.18
1	A	2366	ILE	CB-CA-C	-5.34	104.92	112.14
1	D	2366	ILE	CB-CA-C	-5.34	104.93	112.14
1	B	377	GLY	N-CA-C	5.34	125.84	113.18
1	D	2269	CYS	N-CA-CB	-5.34	102.27	110.12
1	C	377	GLY	N-CA-C	5.34	125.83	113.18
1	B	2269	CYS	N-CA-CB	-5.34	102.27	110.12
1	B	2366	ILE	CB-CA-C	-5.34	104.94	112.14
1	A	2284	ALA	CA-C-N	-5.33	113.15	120.46
1	A	2284	ALA	C-N-CA	-5.33	113.15	120.46
1	A	2269	CYS	N-CA-CB	-5.33	102.28	110.12
1	A	2624	LYS	CA-C-N	-5.33	111.36	121.54
1	A	2624	LYS	C-N-CA	-5.33	111.36	121.54
1	D	1059	THR	N-CA-C	5.33	118.88	112.38
1	D	2284	ALA	CA-C-N	-5.33	113.16	120.46
1	D	2284	ALA	C-N-CA	-5.33	113.16	120.46
1	A	2733	ILE	N-CA-CB	5.32	117.78	110.54
1	C	2366	ILE	CB-CA-C	-5.32	104.95	112.14
1	C	1059	THR	N-CA-C	5.32	118.87	112.38
1	C	2284	ALA	CA-C-N	-5.31	113.19	120.46
1	C	2284	ALA	C-N-CA	-5.31	113.19	120.46
1	D	2579	ILE	N-CA-CB	5.28	119.38	110.56
1	C	2255	ASN	N-CA-C	5.27	117.02	111.28
1	A	2579	ILE	N-CA-CB	5.26	119.35	110.56
1	D	2255	ASN	N-CA-C	5.26	117.01	111.28
1	B	2579	ILE	N-CA-CB	5.25	119.33	110.56
1	C	2579	ILE	N-CA-CB	5.25	119.32	110.56
1	B	2255	ASN	N-CA-C	5.24	117.00	111.28
1	A	2255	ASN	N-CA-C	5.24	116.99	111.28
1	B	629	ARG	CA-C-O	5.23	129.45	122.44
1	D	643	LYS	CA-C-N	-5.23	114.82	122.40
1	D	643	LYS	C-N-CA	-5.23	114.82	122.40
1	B	643	LYS	CA-C-N	-5.22	114.83	122.40
1	B	643	LYS	C-N-CA	-5.22	114.83	122.40
1	A	643	LYS	CA-C-N	-5.22	114.83	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	643	LYS	C-N-CA	-5.22	114.83	122.40
1	C	373	THR	CA-C-N	5.22	135.69	126.45
1	C	373	THR	C-N-CA	5.22	135.69	126.45
1	A	629	ARG	CA-C-O	5.22	129.43	122.44
1	D	373	THR	CA-C-N	5.21	135.66	126.45
1	D	373	THR	C-N-CA	5.21	135.66	126.45
1	B	373	THR	CA-C-N	5.20	135.66	126.45
1	B	373	THR	C-N-CA	5.20	135.66	126.45
1	A	373	THR	CA-C-N	5.20	135.66	126.45
1	A	373	THR	C-N-CA	5.20	135.66	126.45
1	B	2273	MET	CA-C-N	-5.20	113.68	120.44
1	B	2273	MET	C-N-CA	-5.20	113.68	120.44
1	C	629	ARG	CA-C-O	5.20	129.41	122.44
1	D	629	ARG	CA-C-O	5.19	129.40	122.44
1	C	643	LYS	CA-C-N	-5.19	114.87	122.40
1	C	643	LYS	C-N-CA	-5.19	114.87	122.40
1	C	2273	MET	CA-C-N	-5.18	113.70	120.44
1	C	2273	MET	C-N-CA	-5.18	113.70	120.44
1	B	2660	GLU	CB-CG-CD	5.17	121.40	112.60
1	D	2273	MET	CA-C-N	-5.17	113.72	120.44
1	D	2273	MET	C-N-CA	-5.17	113.72	120.44
1	D	2660	GLU	CB-CG-CD	5.17	121.38	112.60
1	A	2660	GLU	CB-CG-CD	5.16	121.37	112.60
1	A	2273	MET	CA-C-N	-5.16	113.74	120.44
1	A	2273	MET	C-N-CA	-5.16	113.74	120.44
1	C	2230	THR	CB-CA-C	-5.15	102.79	110.88
1	C	2660	GLU	CB-CG-CD	5.15	121.36	112.60
1	A	1390	ASN	O-C-N	-5.14	118.15	123.29
1	D	1390	ASN	O-C-N	-5.14	118.15	123.29
1	A	2230	THR	CB-CA-C	-5.13	102.83	110.88
1	A	137	ARG	CA-C-N	-5.13	117.05	122.28
1	A	137	ARG	C-N-CA	-5.13	117.05	122.28
1	D	2230	THR	CB-CA-C	-5.12	102.84	110.88
1	B	2230	THR	CB-CA-C	-5.12	102.84	110.88
1	C	137	ARG	CA-C-N	-5.11	117.07	122.28
1	C	137	ARG	C-N-CA	-5.11	117.07	122.28
1	B	1605	GLN	N-CA-C	-5.11	105.71	111.28
1	B	2553	LEU	N-CA-C	5.11	116.85	111.28
1	A	2291	VAL	CB-CA-C	-5.11	105.44	111.97
1	A	1605	GLN	N-CA-C	-5.10	105.72	111.28
1	C	1605	GLN	N-CA-C	-5.10	105.72	111.28
1	C	1632	ARG	CA-C-N	5.10	124.71	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1632	ARG	C-N-CA	5.10	124.71	119.05
1	C	2553	LEU	N-CA-C	5.10	116.84	111.28
1	B	137	ARG	CA-C-N	-5.10	117.08	122.28
1	B	137	ARG	C-N-CA	-5.10	117.08	122.28
1	D	137	ARG	CA-C-N	-5.10	117.08	122.28
1	D	137	ARG	C-N-CA	-5.10	117.08	122.28
1	D	1605	GLN	N-CA-C	-5.10	105.72	111.28
1	A	2553	LEU	N-CA-C	5.10	116.84	111.28
1	C	1390	ASN	O-C-N	-5.09	118.20	123.29
1	D	2291	VAL	CB-CA-C	-5.09	105.46	111.97
1	A	2141	ASN	N-CA-C	5.09	117.75	110.68
1	D	2141	ASN	N-CA-C	5.08	117.75	110.68
1	B	2291	VAL	CB-CA-C	-5.08	105.47	111.97
1	B	1390	ASN	O-C-N	-5.08	118.21	123.29
1	A	1632	ARG	CA-C-N	5.08	124.69	119.05
1	A	1632	ARG	C-N-CA	5.08	124.69	119.05
1	C	2141	ASN	N-CA-C	5.08	117.73	110.68
1	B	1632	ARG	CA-C-N	5.07	124.68	119.05
1	B	1632	ARG	C-N-CA	5.07	124.68	119.05
1	D	1632	ARG	CA-C-N	5.07	124.67	119.05
1	D	1632	ARG	C-N-CA	5.07	124.67	119.05
1	C	2291	VAL	CB-CA-C	-5.07	105.48	111.97
1	D	2553	LEU	N-CA-C	5.06	116.80	111.28
1	B	2141	ASN	N-CA-C	5.05	117.70	110.68
1	B	763	LEU	CA-C-N	5.02	127.33	120.46
1	B	763	LEU	C-N-CA	5.02	127.33	120.46

There are no chirality outliers.

All (100) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1057	GLY	Mainchain
1	A	1339	GLU	Peptide
1	A	1850	ASP	Peptide
1	A	1979	ASN	Peptide
1	A	2193	THR	Peptide
1	A	2220	THR	Mainchain
1	A	2232	GLU	Peptide
1	A	2265	VAL	Mainchain
1	A	230	LYS	Peptide
1	A	2335	ALA	Mainchain
1	A	249	LYS	Peptide

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Mol	Chain	Res	Type	Group
1	A	260	GLN	Peptide
1	A	2609	THR	Peptide
1	A	2612	PHE	Peptide
1	A	2651	LYS	Peptide
1	A	2655	GLU	Peptide
1	A	2657	THR	Peptide
1	A	2670	ARG	Peptide
1	A	2678	MET	Peptide
1	A	393	LEU	Peptide
1	A	411	GLU	Peptide
1	A	628	PRO	Mainchain
1	A	65	ARG	Mainchain
1	A	722	GLY	Peptide
1	A	879	TYR	Mainchain
1	B	1057	GLY	Mainchain
1	B	1339	GLU	Peptide
1	B	1850	ASP	Peptide
1	B	1979	ASN	Peptide
1	B	2193	THR	Peptide
1	B	2220	THR	Mainchain
1	B	2232	GLU	Peptide
1	B	2265	VAL	Mainchain
1	B	230	LYS	Peptide
1	B	2335	ALA	Mainchain
1	B	249	LYS	Peptide
1	B	260	GLN	Peptide
1	B	2609	THR	Peptide
1	B	2612	PHE	Peptide
1	B	2651	LYS	Peptide
1	B	2655	GLU	Peptide
1	B	2657	THR	Peptide
1	B	2670	ARG	Peptide
1	B	2678	MET	Peptide
1	B	393	LEU	Peptide
1	B	411	GLU	Peptide
1	B	628	PRO	Mainchain
1	B	65	ARG	Mainchain
1	B	722	GLY	Peptide
1	B	879	TYR	Mainchain
1	C	1057	GLY	Mainchain
1	C	1339	GLU	Peptide
1	C	1850	ASP	Peptide

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Mol	Chain	Res	Type	Group
1	C	1979	ASN	Peptide
1	C	2193	THR	Peptide
1	C	2220	THR	Mainchain
1	C	2232	GLU	Peptide
1	C	2265	VAL	Mainchain
1	C	230	LYS	Peptide
1	C	2335	ALA	Mainchain
1	C	249	LYS	Peptide
1	C	260	GLN	Peptide
1	C	2609	THR	Peptide
1	C	2612	PHE	Peptide
1	C	2651	LYS	Peptide
1	C	2655	GLU	Peptide
1	C	2657	THR	Peptide
1	C	2670	ARG	Peptide
1	C	2678	MET	Peptide
1	C	393	LEU	Peptide
1	C	411	GLU	Peptide
1	C	628	PRO	Mainchain
1	C	65	ARG	Mainchain
1	C	722	GLY	Peptide
1	C	879	TYR	Mainchain
1	D	1057	GLY	Mainchain
1	D	1339	GLU	Peptide
1	D	1850	ASP	Peptide
1	D	1979	ASN	Peptide
1	D	2193	THR	Peptide
1	D	2220	THR	Mainchain
1	D	2232	GLU	Peptide
1	D	2265	VAL	Mainchain
1	D	230	LYS	Peptide
1	D	2335	ALA	Mainchain
1	D	249	LYS	Peptide
1	D	260	GLN	Peptide
1	D	2609	THR	Peptide
1	D	2612	PHE	Peptide
1	D	2651	LYS	Peptide
1	D	2655	GLU	Peptide
1	D	2657	THR	Peptide
1	D	2670	ARG	Peptide
1	D	2678	MET	Peptide
1	D	393	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	D	411	GLU	Peptide
1	D	628	PRO	Mainchain
1	D	65	ARG	Mainchain
1	D	722	GLY	Peptide
1	D	879	TYR	Mainchain

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	12851	0	9512	1299	0
1	B	12851	0	9512	1295	0
1	C	12851	0	9512	1299	0
1	D	12851	0	9512	1305	0
All	All	51404	0	38048	4838	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 54.

All (4838) 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:C:2618:ARG:HD2	1:C:2628:PHE:CZ	1.25	1.71
1:A:538:LEU:CG	1:A:586:GLY:HA2	1.25	1.67
1:A:2618:ARG:HG3	1:A:2628:PHE:CE1	1.17	1.67
1:D:2618:ARG:HG3	1:D:2628:PHE:CE1	1.17	1.67
1:B:2618:ARG:HD2	1:B:2628:PHE:CZ	1.25	1.66
1:B:2695:LEU:HD22	1:B:2698:LEU:CD1	1.22	1.66
1:B:538:LEU:CG	1:B:586:GLY:HA2	1.25	1.65
1:B:2706:MET:HG2	1:A:2707:LYS:CD	1.24	1.63
1:D:538:LEU:CG	1:D:586:GLY:HA2	1.25	1.63
1:C:2618:ARG:HG3	1:C:2628:PHE:CE1	1.17	1.62
1:C:538:LEU:CD2	1:C:586:GLY:CA	1.74	1.62
1:A:364:ILE:HD11	1:D:2736:LEU:CB	1.23	1.61
1:B:2618:ARG:HG3	1:B:2628:PHE:CE1	1.17	1.60
1:C:2618:ARG:CD	1:C:2628:PHE:CZ	1.78	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:510:MET:CG	1:B:515:ILE:CD1	1.80	1.60
1:A:2618:ARG:HD2	1:A:2628:PHE:CZ	1.25	1.60
1:B:538:LEU:CD2	1:B:586:GLY:CA	1.74	1.59
1:A:2618:ARG:CD	1:A:2628:PHE:CZ	1.78	1.59
1:D:2618:ARG:HD2	1:D:2628:PHE:CZ	1.25	1.59
1:C:538:LEU:HD21	1:C:586:GLY:CA	1.11	1.59
1:C:538:LEU:CG	1:C:586:GLY:HA2	1.25	1.59
1:B:2618:ARG:CD	1:B:2628:PHE:CZ	1.78	1.59
1:B:2736:LEU:CB	1:C:364:ILE:HD11	1.30	1.58
1:A:2695:LEU:HD22	1:A:2698:LEU:CD1	1.22	1.58
1:D:364:ILE:CD1	1:C:2736:LEU:CB	1.81	1.58
1:D:2695:LEU:HD22	1:D:2698:LEU:CD1	1.22	1.58
1:D:538:LEU:CD2	1:D:586:GLY:HA2	1.28	1.58
1:A:510:MET:CG	1:A:515:ILE:CD1	1.80	1.58
1:D:2618:ARG:CD	1:D:2628:PHE:CZ	1.78	1.57
1:C:510:MET:CG	1:C:515:ILE:CD1	1.80	1.57
1:C:538:LEU:CD2	1:C:586:GLY:HA2	1.28	1.56
1:A:538:LEU:HD21	1:A:586:GLY:CA	1.11	1.56
1:D:510:MET:CG	1:D:515:ILE:CD1	1.80	1.55
1:D:538:LEU:HD21	1:D:586:GLY:CA	1.11	1.55
1:B:364:ILE:HD11	1:A:2736:LEU:CB	1.28	1.55
1:D:364:ILE:CD1	1:C:2736:LEU:HB3	1.09	1.54
1:C:2695:LEU:HD22	1:C:2698:LEU:CD1	1.22	1.54
1:B:538:LEU:HD21	1:B:586:GLY:CA	1.11	1.54
1:B:2707:LYS:CD	1:C:2706:MET:HG2	1.31	1.54
1:D:538:LEU:CD2	1:D:586:GLY:CA	1.74	1.54
1:B:2618:ARG:CD	1:B:2628:PHE:HZ	1.13	1.54
1:A:538:LEU:CD2	1:A:586:GLY:CA	1.74	1.54
1:D:2706:MET:HG2	1:C:2707:LYS:CD	1.28	1.54
1:A:2695:LEU:CD2	1:A:2698:LEU:HD11	1.05	1.52
1:A:2618:ARG:CD	1:A:2628:PHE:HZ	1.13	1.51
1:A:2706:MET:HG2	1:D:2707:LYS:CD	1.32	1.51
1:B:2276:TRP:CD2	1:B:2368:PHE:CD1	1.98	1.51
1:D:2618:ARG:CD	1:D:2628:PHE:HZ	1.13	1.51
1:D:2695:LEU:CD2	1:D:2698:LEU:HD11	1.05	1.51
1:D:2695:LEU:CD2	1:D:2698:LEU:CD1	1.77	1.51
1:D:2276:TRP:CD2	1:D:2368:PHE:CD1	1.98	1.50
1:B:2695:LEU:CD2	1:B:2698:LEU:HD11	1.05	1.50
1:A:364:ILE:CD1	1:D:2736:LEU:CB	1.78	1.50
1:A:2279:ILE:CD1	1:A:2364:ASN:CB	1.87	1.50
1:C:2279:ILE:CD1	1:C:2364:ASN:CB	1.87	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:364:ILE:CD1	1:A:2736:LEU:HB3	1.03	1.50
1:B:538:LEU:CD2	1:B:586:GLY:HA2	1.28	1.50
1:B:2276:TRP:CE3	1:B:2368:PHE:HD1	1.30	1.50
1:C:2276:TRP:CE3	1:C:2368:PHE:HD1	1.30	1.50
1:B:2279:ILE:HD12	1:B:2364:ASN:CB	1.42	1.50
1:A:2618:ARG:CG	1:A:2628:PHE:CZ	1.94	1.50
1:B:2736:LEU:HB3	1:C:364:ILE:CD1	1.06	1.50
1:C:2276:TRP:CD2	1:C:2368:PHE:CD1	1.98	1.50
1:A:2276:TRP:CD2	1:A:2368:PHE:CD1	1.98	1.49
1:B:364:ILE:CD1	1:A:2736:LEU:CB	1.79	1.49
1:D:2276:TRP:CE3	1:D:2368:PHE:HD1	1.30	1.49
1:C:2695:LEU:CD2	1:C:2698:LEU:HD11	1.05	1.49
1:D:2143:GLU:N	1:D:2651:LYS:HB3	1.26	1.49
1:D:2618:ARG:CG	1:D:2628:PHE:CZ	1.94	1.49
1:D:2279:ILE:CD1	1:D:2364:ASN:CB	1.87	1.49
1:A:2276:TRP:CE3	1:A:2368:PHE:HD1	1.30	1.48
1:B:538:LEU:HD21	1:B:586:GLY:C	1.36	1.48
1:C:538:LEU:HD21	1:C:586:GLY:C	1.36	1.47
1:A:2695:LEU:CD2	1:A:2698:LEU:CD1	1.77	1.47
1:C:2618:ARG:CG	1:C:2628:PHE:CZ	1.94	1.47
1:B:2279:ILE:CD1	1:B:2364:ASN:CB	1.87	1.46
1:B:2695:LEU:CD2	1:B:2698:LEU:CD1	1.77	1.46
1:C:2618:ARG:CD	1:C:2628:PHE:HZ	1.13	1.46
1:C:2695:LEU:CD2	1:C:2698:LEU:CD1	1.77	1.46
1:B:2143:GLU:N	1:B:2651:LYS:HB3	1.26	1.46
1:B:2618:ARG:CG	1:B:2628:PHE:CZ	1.94	1.45
1:D:364:ILE:HD11	1:C:2736:LEU:CB	1.35	1.45
1:D:2288:ASN:ND2	1:D:2414:SER:HA	1.24	1.45
1:A:364:ILE:CD1	1:D:2736:LEU:HB3	0.98	1.45
1:B:2736:LEU:CB	1:C:364:ILE:CD1	1.84	1.44
1:A:538:LEU:CD2	1:A:586:GLY:HA2	1.28	1.44
1:A:2143:GLU:N	1:A:2651:LYS:HB3	1.26	1.44
1:C:2143:GLU:N	1:C:2651:LYS:HB3	1.26	1.44
1:B:2288:ASN:ND2	1:B:2414:SER:HA	1.24	1.44
1:B:2618:ARG:CG	1:B:2628:PHE:CE1	2.01	1.44
1:A:538:LEU:HD21	1:A:586:GLY:C	1.36	1.44
1:D:538:LEU:HD21	1:D:586:GLY:C	1.36	1.44
1:C:2219:LEU:CD1	1:C:2220:THR:N	1.69	1.44
1:B:2609:THR:CB	1:B:2618:ARG:HH11	1.30	1.43
1:A:2243:PHE:CZ	1:A:2612:PHE:CE2	2.06	1.43
1:D:2279:ILE:HD12	1:D:2364:ASN:CB	1.42	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2706:MET:CG	1:A:2707:LYS:HD3	1.48	1.42
1:C:2288:ASN:ND2	1:C:2414:SER:HA	1.24	1.42
1:D:2609:THR:CB	1:D:2618:ARG:HH11	1.30	1.42
1:A:2288:ASN:ND2	1:A:2414:SER:HA	1.24	1.42
1:C:2243:PHE:CZ	1:C:2612:PHE:CE2	2.06	1.42
1:B:2243:PHE:CZ	1:B:2612:PHE:CE2	2.06	1.41
1:B:2276:TRP:HB2	1:B:2368:PHE:CB	1.47	1.41
1:C:2276:TRP:HB2	1:C:2368:PHE:CB	1.47	1.41
1:C:2279:ILE:CD1	1:C:2364:ASN:HB3	0.94	1.41
1:A:510:MET:CG	1:A:515:ILE:HD11	1.42	1.41
1:A:2279:ILE:CD1	1:A:2364:ASN:HB3	0.94	1.41
1:D:2276:TRP:HB2	1:D:2368:PHE:CB	1.47	1.41
1:D:2279:ILE:CD1	1:D:2364:ASN:HB3	0.94	1.41
1:C:2618:ARG:CG	1:C:2628:PHE:CE1	2.01	1.41
1:B:2219:LEU:CD1	1:B:2220:THR:N	1.69	1.41
1:D:510:MET:CG	1:D:515:ILE:HD11	1.42	1.41
1:B:2279:ILE:CD1	1:B:2364:ASN:HB3	0.94	1.40
1:A:2219:LEU:CD1	1:A:2220:THR:N	1.69	1.40
1:A:2622:ASP:OD2	1:A:2631:HIS:CE1	1.73	1.40
1:D:2243:PHE:CZ	1:D:2612:PHE:CE2	2.06	1.40
1:D:2622:ASP:OD2	1:D:2631:HIS:CE1	1.73	1.40
1:C:2240:ILE:CD1	1:C:2672:LEU:HD12	1.52	1.40
1:B:510:MET:CG	1:B:515:ILE:HD11	1.42	1.40
1:A:2276:TRP:HB2	1:A:2368:PHE:CB	1.47	1.40
1:A:2609:THR:CB	1:A:2618:ARG:HH11	1.30	1.40
1:C:2288:ASN:HD21	1:C:2414:SER:CA	1.33	1.40
1:A:2288:ASN:HD21	1:A:2414:SER:CA	1.33	1.40
1:C:2279:ILE:HD12	1:C:2364:ASN:CB	1.42	1.39
1:C:2609:THR:CB	1:C:2618:ARG:HH11	1.30	1.39
1:C:2345:ILE:HB	1:C:2353:THR:CG2	1.53	1.39
1:B:2288:ASN:HD21	1:B:2414:SER:CA	1.33	1.39
1:D:2240:ILE:CD1	1:D:2672:LEU:HD12	1.52	1.39
1:B:2240:ILE:CD1	1:B:2672:LEU:HD12	1.52	1.38
1:A:2279:ILE:HD12	1:A:2364:ASN:CB	1.42	1.38
1:C:2622:ASP:OD2	1:C:2631:HIS:CE1	1.73	1.38
1:B:2622:ASP:OD2	1:B:2631:HIS:CE1	1.73	1.38
1:A:2143:GLU:CA	1:A:2651:LYS:CB	2.02	1.38
1:C:510:MET:CG	1:C:515:ILE:HD11	1.42	1.38
1:A:2706:MET:CG	1:D:2707:LYS:HD3	1.54	1.38
1:D:2345:ILE:HB	1:D:2353:THR:CG2	1.53	1.37
1:D:2618:ARG:CG	1:D:2628:PHE:CE1	2.01	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2345:ILE:HB	1:A:2353:THR:CG2	1.53	1.37
1:D:2143:GLU:CA	1:D:2651:LYS:CB	2.02	1.37
1:A:2379:PHE:CD1	1:A:2392:PHE:HZ	1.43	1.37
1:D:2379:PHE:CD1	1:D:2392:PHE:HZ	1.43	1.37
1:A:2618:ARG:CG	1:A:2628:PHE:CE1	2.01	1.37
1:A:2243:PHE:CE1	1:A:2612:PHE:CE2	2.13	1.37
1:B:2384:ARG:O	1:B:2388:LEU:HD21	1.25	1.36
1:B:2707:LYS:HD3	1:C:2706:MET:CG	1.54	1.36
1:B:2243:PHE:CE1	1:B:2612:PHE:CE2	2.13	1.36
1:A:364:ILE:HD11	1:D:2736:LEU:CG	1.55	1.36
1:C:2609:THR:CA	1:C:2618:ARG:HH11	1.38	1.36
1:B:510:MET:HG3	1:B:515:ILE:CD1	0.88	1.36
1:D:2243:PHE:CE1	1:D:2612:PHE:CE2	2.13	1.36
1:D:2288:ASN:HD21	1:D:2414:SER:CA	1.33	1.36
1:D:2706:MET:CG	1:C:2707:LYS:HD3	1.52	1.36
1:C:510:MET:HG3	1:C:515:ILE:CD1	0.88	1.36
1:C:2227:ILE:CD1	1:C:2246:ARG:HG2	1.55	1.36
1:C:2243:PHE:CE1	1:C:2612:PHE:CE2	2.13	1.36
1:A:2240:ILE:CD1	1:A:2672:LEU:HD12	1.52	1.36
1:B:2143:GLU:CA	1:B:2651:LYS:CB	2.02	1.36
1:D:510:MET:HG3	1:D:515:ILE:CD1	0.88	1.36
1:D:2609:THR:CA	1:D:2618:ARG:HH11	1.38	1.36
1:C:2143:GLU:CA	1:C:2651:LYS:CB	2.02	1.36
1:A:2227:ILE:HD11	1:A:2246:ARG:CG	1.56	1.35
1:A:2266:LEU:O	1:A:2269:CYS:HB2	1.24	1.35
1:C:2379:PHE:CD1	1:C:2392:PHE:HZ	1.43	1.35
1:B:2345:ILE:HB	1:B:2353:THR:CG2	1.53	1.35
1:A:510:MET:HG3	1:A:515:ILE:CD1	0.88	1.35
1:D:2219:LEU:CD1	1:D:2220:THR:N	1.69	1.35
1:D:2227:ILE:CD1	1:D:2246:ARG:HG2	1.55	1.35
1:B:2379:PHE:CD1	1:B:2392:PHE:HZ	1.43	1.35
1:D:2227:ILE:HD11	1:D:2246:ARG:CG	1.56	1.35
1:C:2465:ASP:O	1:C:2553:LEU:CD2	1.75	1.34
1:A:2231:THR:CG2	1:A:2232:GLU:H	1.00	1.34
1:D:2266:LEU:O	1:D:2269:CYS:HB2	1.24	1.34
1:B:2227:ILE:CD1	1:B:2246:ARG:HG2	1.55	1.34
1:B:2231:THR:CG2	1:B:2232:GLU:H	1.00	1.34
1:B:2227:ILE:HD11	1:B:2246:ARG:CG	1.56	1.34
1:B:2609:THR:CA	1:B:2618:ARG:HH11	1.38	1.33
1:D:584:GLN:O	1:D:585:ILE:HD13	1.20	1.33
1:C:2384:ARG:O	1:C:2388:LEU:HD21	1.25	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2465:ASP:O	1:B:2553:LEU:CD2	1.75	1.33
1:A:2227:ILE:CD1	1:A:2246:ARG:HG2	1.55	1.33
1:A:2609:THR:CA	1:A:2618:ARG:HH11	1.38	1.33
1:A:584:GLN:O	1:A:585:ILE:HD13	1.20	1.32
1:A:2465:ASP:O	1:A:2553:LEU:CD2	1.75	1.32
1:D:2625:THR:CG2	1:D:2626:VAL:H	1.42	1.32
1:C:2227:ILE:HD11	1:C:2246:ARG:CG	1.56	1.32
1:D:2232:GLU:CB	1:D:2242:ASP:OD2	1.77	1.32
1:A:2232:GLU:CB	1:A:2242:ASP:OD2	1.77	1.32
1:B:2609:THR:CB	1:B:2618:ARG:NH1	1.93	1.32
1:D:2231:THR:CG2	1:D:2232:GLU:H	1.00	1.32
1:A:2625:THR:CG2	1:A:2626:VAL:H	1.42	1.32
1:C:2232:GLU:CB	1:C:2242:ASP:OD2	1.77	1.32
1:B:2243:PHE:CZ	1:B:2612:PHE:CZ	2.18	1.31
1:A:2243:PHE:CZ	1:A:2612:PHE:CZ	2.18	1.31
1:A:2379:PHE:CE1	1:A:2392:PHE:CZ	2.18	1.31
1:D:2379:PHE:CE1	1:D:2392:PHE:CZ	2.18	1.31
1:D:2609:THR:CB	1:D:2618:ARG:NH1	1.93	1.31
1:B:2410:GLU:O	1:B:2412:PHE:N	1.62	1.31
1:C:2243:PHE:CZ	1:C:2612:PHE:CZ	2.18	1.31
1:C:2379:PHE:CE1	1:C:2392:PHE:CZ	2.18	1.31
1:B:2232:GLU:CB	1:B:2242:ASP:OD2	1.77	1.31
1:C:2609:THR:CB	1:C:2618:ARG:NH1	1.93	1.31
1:B:2379:PHE:CE1	1:B:2392:PHE:CZ	2.18	1.31
1:D:2465:ASP:O	1:D:2553:LEU:CD2	1.75	1.31
1:C:2231:THR:CG2	1:C:2232:GLU:H	1.00	1.31
1:A:2410:GLU:O	1:A:2412:PHE:N	1.62	1.30
1:D:2410:GLU:O	1:D:2412:PHE:N	1.62	1.30
1:C:2410:GLU:O	1:C:2412:PHE:N	1.62	1.30
1:C:2625:THR:CG2	1:C:2626:VAL:H	1.42	1.30
1:D:2243:PHE:CZ	1:D:2612:PHE:CZ	2.18	1.30
1:A:2384:ARG:O	1:A:2388:LEU:HD21	1.25	1.30
1:C:2609:THR:HG22	1:C:2618:ARG:NH1	1.47	1.30
1:B:2625:THR:CG2	1:B:2626:VAL:H	1.42	1.29
1:B:63:MET:C	1:B:64:ASN:OD1	1.75	1.29
1:D:2406:LEU:HD23	1:D:2407:PHE:CE2	1.67	1.29
1:B:584:GLN:O	1:B:585:ILE:HD13	1.20	1.29
1:B:2706:MET:CG	1:A:2707:LYS:CD	2.06	1.29
1:A:63:MET:C	1:A:64:ASN:OD1	1.75	1.29
1:A:2406:LEU:HD23	1:A:2407:PHE:CE2	1.67	1.29
1:D:367:ILE:O	1:D:393:LEU:HB2	1.11	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:379:ASP:OD1	1:A:2722:GLN:HB3	1.12	1.28
1:C:63:MET:C	1:C:64:ASN:OD1	1.75	1.28
1:B:2243:PHE:CE1	1:B:2612:PHE:HE2	1.49	1.28
1:B:2266:LEU:O	1:B:2269:CYS:HB2	1.24	1.28
1:B:2406:LEU:HD23	1:B:2407:PHE:CE2	1.67	1.28
1:A:2609:THR:CB	1:A:2618:ARG:NH1	1.93	1.28
1:D:379:ASP:OD1	1:C:2722:GLN:HB3	1.13	1.28
1:C:2406:LEU:HD23	1:C:2407:PHE:CE2	1.67	1.28
1:A:2699:GLN:HB2	1:D:2700:GLU:OE2	1.28	1.28
1:D:379:ASP:CG	1:C:2722:GLN:HB3	1.54	1.28
1:A:2243:PHE:CE1	1:A:2612:PHE:HE2	1.49	1.28
1:C:584:GLN:O	1:C:585:ILE:HD13	1.20	1.28
1:C:2266:LEU:O	1:C:2269:CYS:HB2	1.24	1.27
1:D:364:ILE:HD11	1:C:2736:LEU:CG	1.62	1.27
1:B:2609:THR:HG22	1:B:2618:ARG:NH1	1.47	1.27
1:D:2609:THR:HG22	1:D:2618:ARG:NH1	1.47	1.27
1:A:2609:THR:HG22	1:A:2618:ARG:NH1	1.47	1.27
1:C:2243:PHE:CE1	1:C:2612:PHE:HE2	1.49	1.26
1:B:2736:LEU:CG	1:C:364:ILE:HD11	1.63	1.26
1:D:2609:THR:HA	1:D:2618:ARG:NH1	1.51	1.26
1:B:364:ILE:HD11	1:A:2736:LEU:CG	1.64	1.26
1:B:2398:TYR:CE1	1:B:2416:LEU:HD21	1.69	1.26
1:D:2227:ILE:HG22	1:D:2638:MET:CE	1.66	1.26
1:C:2398:TYR:CE1	1:C:2416:LEU:HD21	1.70	1.26
1:C:2609:THR:HA	1:C:2618:ARG:NH1	1.51	1.26
1:B:379:ASP:CG	1:A:2722:GLN:HB3	1.61	1.26
1:B:2622:ASP:OD2	1:B:2628:PHE:HA	1.36	1.26
1:A:367:ILE:O	1:A:393:LEU:HB2	1.11	1.26
1:A:2609:THR:CG2	1:A:2618:ARG:NH1	1.99	1.26
1:D:63:MET:C	1:D:64:ASN:OD1	1.75	1.26
1:D:2349:GLY:O	1:D:2352:PRO:HG2	1.14	1.26
1:C:2276:TRP:CE3	1:C:2368:PHE:CD1	2.20	1.26
1:B:2345:ILE:CB	1:B:2353:THR:HG22	1.66	1.25
1:A:379:ASP:OD1	1:D:2722:GLN:HB3	1.11	1.25
1:A:2622:ASP:OD2	1:A:2628:PHE:HA	1.36	1.25
1:D:2243:PHE:CE1	1:D:2612:PHE:HE2	1.49	1.25
1:B:2269:CYS:O	1:B:2371:SER:OG	1.53	1.25
1:A:2609:THR:HA	1:A:2618:ARG:NH1	1.51	1.25
1:A:2706:MET:HG2	1:D:2707:LYS:CE	1.67	1.25
1:B:367:ILE:O	1:B:393:LEU:HB2	1.11	1.25
1:B:2609:THR:CA	1:B:2618:ARG:NH1	2.00	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2722:GLN:HB3	1:C:379:ASP:OD1	1.13	1.25
1:A:2398:TYR:CE1	1:A:2416:LEU:HD21	1.69	1.25
1:A:2609:THR:CA	1:A:2618:ARG:NH1	2.00	1.25
1:D:2269:CYS:O	1:D:2371:SER:OG	1.53	1.25
1:D:2384:ARG:O	1:D:2388:LEU:HD21	1.25	1.25
1:D:2398:TYR:CE1	1:D:2416:LEU:HD21	1.70	1.25
1:B:2349:GLY:O	1:B:2352:PRO:HG2	1.14	1.25
1:A:2227:ILE:HG22	1:A:2638:MET:CE	1.66	1.25
1:D:2276:TRP:CE3	1:D:2368:PHE:CD1	2.20	1.25
1:B:2379:PHE:CE1	1:B:2392:PHE:HZ	1.53	1.25
1:B:2609:THR:HA	1:B:2618:ARG:NH1	1.51	1.25
1:C:367:ILE:O	1:C:393:LEU:HB2	1.11	1.25
1:D:2345:ILE:CB	1:D:2353:THR:HG22	1.66	1.24
1:D:2622:ASP:OD2	1:D:2628:PHE:HA	1.36	1.24
1:B:2227:ILE:HG22	1:B:2638:MET:CE	1.66	1.24
1:B:2609:THR:CG2	1:B:2618:ARG:NH1	1.99	1.24
1:A:2349:GLY:O	1:A:2352:PRO:HG2	1.14	1.24
1:A:2622:ASP:CG	1:A:2631:HIS:CE1	2.15	1.24
1:D:2384:ARG:O	1:D:2388:LEU:CD2	1.85	1.24
1:D:2609:THR:CG2	1:D:2618:ARG:NH1	1.99	1.24
1:C:2227:ILE:HG22	1:C:2638:MET:CE	1.66	1.24
1:C:2345:ILE:CB	1:C:2353:THR:HG22	1.66	1.24
1:B:2622:ASP:CG	1:B:2631:HIS:CE1	2.15	1.24
1:C:2384:ARG:O	1:C:2388:LEU:CD2	1.85	1.24
1:A:2345:ILE:CB	1:A:2353:THR:HG22	1.66	1.24
1:A:2384:ARG:O	1:A:2388:LEU:CD2	1.85	1.24
1:C:2379:PHE:CE1	1:C:2392:PHE:HZ	1.53	1.24
1:C:2410:GLU:OE1	1:C:2411:PHE:N	1.71	1.24
1:B:2143:GLU:CA	1:B:2651:LYS:HB3	1.66	1.23
1:A:2410:GLU:OE1	1:A:2411:PHE:N	1.71	1.23
1:B:553:CYS:HB3	1:B:557:TYR:CE2	1.74	1.23
1:D:2622:ASP:CG	1:D:2631:HIS:CE1	2.15	1.23
1:C:553:CYS:HB3	1:C:557:TYR:CE2	1.74	1.23
1:C:2269:CYS:O	1:C:2371:SER:OG	1.53	1.23
1:B:584:GLN:O	1:B:585:ILE:CD1	1.87	1.23
1:B:2384:ARG:O	1:B:2388:LEU:CD2	1.85	1.23
1:D:2410:GLU:OE1	1:D:2411:PHE:N	1.71	1.23
1:C:2609:THR:CG2	1:C:2618:ARG:NH1	1.99	1.23
1:C:2622:ASP:CG	1:C:2631:HIS:CE1	2.15	1.23
1:B:2722:GLN:HB3	1:C:379:ASP:CG	1.62	1.23
1:A:2706:MET:CG	1:D:2707:LYS:CD	2.13	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:553:CYS:HB3	1:D:557:TYR:CE2	1.74	1.23
1:D:2706:MET:CG	1:C:2707:LYS:CD	2.11	1.23
1:C:2349:GLY:O	1:C:2352:PRO:HG2	1.14	1.23
1:C:2622:ASP:OD2	1:C:2628:PHE:HA	1.36	1.23
1:B:2410:GLU:OE1	1:B:2411:PHE:N	1.71	1.22
1:A:553:CYS:HB3	1:A:557:TYR:CE2	1.74	1.22
1:A:584:GLN:O	1:A:585:ILE:CD1	1.87	1.22
1:A:2699:GLN:CB	1:D:2700:GLU:OE2	1.86	1.22
1:D:379:ASP:CG	1:C:2722:GLN:CB	2.13	1.22
1:C:2143:GLU:CA	1:C:2651:LYS:HB3	1.66	1.22
1:A:2379:PHE:CE1	1:A:2392:PHE:HZ	1.53	1.22
1:B:2144:ASP:N	1:B:2651:LYS:HB2	1.55	1.22
1:D:584:GLN:O	1:D:585:ILE:CD1	1.87	1.21
1:B:2700:GLU:OE2	1:C:2699:GLN:HB2	1.39	1.21
1:A:2269:CYS:O	1:A:2371:SER:OG	1.53	1.21
1:A:2699:GLN:CD	1:D:2700:GLU:CG	2.13	1.21
1:A:2704:SER:O	1:A:2708:LEU:HG	1.41	1.21
1:C:2609:THR:CA	1:C:2618:ARG:NH1	2.00	1.21
1:C:2609:THR:HA	1:C:2618:ARG:CZ	1.71	1.21
1:D:2243:PHE:HZ	1:D:2612:PHE:CZ	1.56	1.21
1:D:2609:THR:CA	1:D:2618:ARG:NH1	1.99	1.21
1:C:584:GLN:O	1:C:585:ILE:CD1	1.87	1.21
1:A:66:TYR:CB	1:A:156:ASN:O	1.89	1.20
1:A:2243:PHE:HZ	1:A:2612:PHE:CZ	1.56	1.20
1:D:2609:THR:HA	1:D:2618:ARG:CZ	1.71	1.20
1:C:2144:ASP:N	1:C:2651:LYS:HB2	1.55	1.20
1:A:379:ASP:CG	1:D:2722:GLN:HB3	1.66	1.20
1:C:2622:ASP:CG	1:C:2631:HIS:HE1	1.49	1.20
1:D:364:ILE:HG13	1:C:2736:LEU:O	1.38	1.20
1:B:301:SER:OG	1:B:303:PHE:CD1	1.95	1.20
1:A:301:SER:OG	1:A:303:PHE:CD1	1.95	1.20
1:B:2243:PHE:HZ	1:B:2612:PHE:CZ	1.56	1.20
1:D:2379:PHE:CE1	1:D:2392:PHE:HZ	1.53	1.20
1:C:2243:PHE:HZ	1:C:2612:PHE:CZ	1.56	1.20
1:A:2144:ASP:N	1:A:2651:LYS:HB2	1.55	1.19
1:D:66:TYR:CB	1:D:156:ASN:O	1.89	1.19
1:D:2144:ASP:N	1:D:2651:LYS:HB2	1.55	1.19
1:D:2423:ARG:C	1:D:2424:GLU:OE1	1.85	1.19
1:C:2276:TRP:CG	1:C:2368:PHE:CD1	2.30	1.19
1:B:2276:TRP:CG	1:B:2368:PHE:CD1	2.30	1.19
1:D:2622:ASP:CG	1:D:2631:HIS:HE1	1.49	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:66:TYR:CB	1:C:156:ASN:O	1.89	1.19
1:B:2350:LEU:C	1:B:2352:PRO:HD2	1.68	1.19
1:B:2609:THR:HA	1:B:2618:ARG:CZ	1.71	1.19
1:C:2550:GLY:HA3	1:C:2570:ASP:OD1	1.42	1.19
1:A:2276:TRP:CG	1:A:2368:PHE:CD1	2.30	1.19
1:D:379:ASP:OD2	1:C:2722:GLN:HB2	1.38	1.19
1:C:2423:ARG:C	1:C:2424:GLU:OE1	1.85	1.19
1:B:66:TYR:CB	1:B:156:ASN:O	1.89	1.19
1:B:2423:ARG:C	1:B:2424:GLU:OE1	1.85	1.19
1:B:2699:GLN:HB2	1:A:2700:GLU:OE2	1.42	1.19
1:B:2704:SER:O	1:B:2708:LEU:HG	1.41	1.18
1:A:2609:THR:HA	1:A:2618:ARG:CZ	1.71	1.18
1:A:2622:ASP:CG	1:A:2631:HIS:HE1	1.49	1.18
1:C:2704:SER:O	1:C:2708:LEU:HG	1.41	1.18
1:B:2706:MET:HG2	1:A:2707:LYS:CE	1.73	1.18
1:A:2699:GLN:CD	1:D:2700:GLU:HG3	1.67	1.18
1:D:2215:ILE:O	1:D:2254:MET:CE	1.91	1.18
1:C:301:SER:OG	1:C:303:PHE:CD1	1.95	1.18
1:C:2350:LEU:C	1:C:2352:PRO:HD2	1.68	1.18
1:B:2550:GLY:HA3	1:B:2570:ASP:OD1	1.42	1.18
1:B:2707:LYS:CD	1:C:2706:MET:CG	2.14	1.18
1:A:2240:ILE:HD11	1:A:2672:LEU:CD1	1.74	1.18
1:A:2706:MET:CB	1:D:2707:LYS:HD3	1.71	1.18
1:D:2240:ILE:HD11	1:D:2672:LEU:CD1	1.74	1.18
1:D:2276:TRP:CG	1:D:2368:PHE:CD1	2.30	1.18
1:B:379:ASP:CG	1:A:2722:GLN:CB	2.16	1.18
1:D:301:SER:OG	1:D:303:PHE:CD1	1.95	1.18
1:D:510:MET:O	1:D:516:LEU:HD21	1.44	1.18
1:D:514:ASN:HB3	1:D:517:LYS:HD3	1.18	1.18
1:A:392:HIS:CE1	1:A:397:THR:H	1.60	1.18
1:A:2423:ARG:C	1:A:2424:GLU:OE1	1.85	1.18
1:D:2695:LEU:HD23	1:D:2698:LEU:CD1	1.69	1.18
1:C:510:MET:O	1:C:516:LEU:HD21	1.44	1.18
1:B:379:ASP:OD2	1:A:2722:GLN:HB2	1.43	1.17
1:D:392:HIS:CE1	1:D:397:THR:H	1.60	1.17
1:D:2706:MET:HG2	1:C:2707:LYS:CG	1.73	1.17
1:C:392:HIS:CE1	1:C:397:THR:H	1.60	1.17
1:C:538:LEU:HG	1:C:586:GLY:HA2	1.20	1.17
1:B:364:ILE:HG13	1:A:2736:LEU:O	1.40	1.17
1:A:2350:LEU:C	1:A:2352:PRO:HD2	1.68	1.17
1:A:2550:GLY:HA3	1:A:2570:ASP:OD1	1.42	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2704:SER:O	1:D:2708:LEU:HG	1.41	1.17
1:C:2215:ILE:O	1:C:2254:MET:CE	1.91	1.17
1:C:2705:THR:HA	1:C:2708:LEU:HD21	1.25	1.17
1:B:392:HIS:CE1	1:B:397:THR:H	1.60	1.17
1:B:2215:ILE:O	1:B:2254:MET:CE	1.91	1.17
1:B:2276:TRP:CE3	1:B:2368:PHE:CD1	2.20	1.17
1:B:2410:GLU:O	1:B:2411:PHE:C	1.84	1.17
1:C:2410:GLU:O	1:C:2411:PHE:C	1.84	1.17
1:B:2622:ASP:CG	1:B:2631:HIS:HE1	1.49	1.17
1:A:2215:ILE:O	1:A:2254:MET:CE	1.91	1.17
1:A:2349:GLY:O	1:A:2352:PRO:CG	1.93	1.17
1:D:394:CYS:HB3	1:C:2737:GLY:CA	1.75	1.17
1:A:2699:GLN:OE1	1:D:2700:GLU:CG	1.92	1.17
1:D:538:LEU:HG	1:D:586:GLY:HA2	1.20	1.17
1:D:2143:GLU:CA	1:D:2651:LYS:HB3	1.66	1.17
1:D:2550:GLY:HA3	1:D:2570:ASP:OD1	1.42	1.17
1:C:2240:ILE:HD11	1:C:2672:LEU:CD1	1.74	1.17
1:A:2143:GLU:CA	1:A:2651:LYS:HB3	1.66	1.16
1:C:510:MET:CG	1:C:515:ILE:HD12	1.59	1.16
1:C:2215:ILE:O	1:C:2254:MET:HE2	1.44	1.16
1:B:2219:LEU:HD13	1:B:2220:THR:N	0.86	1.16
1:B:2240:ILE:HD11	1:B:2672:LEU:CD1	1.74	1.16
1:B:2707:LYS:HG2	1:B:2711:ASN:HD21	1.04	1.16
1:C:2349:GLY:O	1:C:2352:PRO:CG	1.93	1.16
1:A:510:MET:O	1:A:516:LEU:HD21	1.44	1.16
1:B:2722:GLN:CB	1:C:379:ASP:CG	2.18	1.16
1:B:2349:GLY:O	1:B:2352:PRO:CG	1.93	1.16
1:D:2350:LEU:C	1:D:2352:PRO:HD2	1.68	1.16
1:B:1626:LEU:O	1:B:1630:LEU:N	1.79	1.15
1:A:2276:TRP:CE3	1:A:2368:PHE:CD1	2.20	1.15
1:B:2215:ILE:O	1:B:2254:MET:HE2	1.44	1.15
1:B:2707:LYS:CE	1:C:2706:MET:HG2	1.75	1.15
1:A:80:ALA:O	1:A:81:ASN:CG	1.90	1.15
1:C:66:TYR:HB2	1:C:156:ASN:O	1.44	1.15
1:B:2722:GLN:HB2	1:C:379:ASP:OD2	1.44	1.15
1:D:2349:GLY:O	1:D:2352:PRO:CG	1.93	1.15
1:C:1626:LEU:O	1:C:1630:LEU:N	1.79	1.15
1:C:2465:ASP:O	1:C:2553:LEU:HD22	1.45	1.15
1:B:510:MET:O	1:B:516:LEU:HD21	1.44	1.15
1:B:2618:ARG:HG3	1:B:2628:PHE:CZ	1.71	1.15
1:A:2219:LEU:HD13	1:A:2220:THR:N	0.86	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2695:LEU:HD23	1:A:2698:LEU:CD1	1.69	1.15
1:C:80:ALA:O	1:C:81:ASN:CG	1.90	1.15
1:C:514:ASN:HB3	1:C:517:LYS:HD3	1.18	1.15
1:C:2368:PHE:CE1	1:C:2395:HIS:HE1	1.65	1.15
1:B:2706:MET:CB	1:A:2707:LYS:HD3	1.77	1.14
1:A:2215:ILE:O	1:A:2254:MET:HE2	1.44	1.14
1:A:2368:PHE:CE1	1:A:2395:HIS:CE1	2.35	1.14
1:D:520:PHE:HZ	1:D:576:LYS:NZ	1.46	1.14
1:D:1626:LEU:O	1:D:1630:LEU:N	1.79	1.14
1:C:2423:ARG:O	1:C:2424:GLU:CD	1.91	1.14
1:B:2423:ARG:O	1:B:2424:GLU:CD	1.91	1.14
1:B:2699:GLN:CB	1:A:2700:GLU:OE2	1.94	1.14
1:C:2707:LYS:HG2	1:C:2711:ASN:HD21	1.04	1.14
1:B:80:ALA:O	1:B:81:ASN:CG	1.90	1.14
1:D:2423:ARG:O	1:D:2424:GLU:OE1	1.66	1.14
1:C:2368:PHE:CE1	1:C:2395:HIS:CE1	2.35	1.14
1:B:2379:PHE:CD1	1:B:2392:PHE:CZ	2.35	1.14
1:A:379:ASP:CG	1:D:2722:GLN:CB	2.19	1.14
1:A:379:ASP:OD2	1:D:2722:GLN:HB2	1.47	1.14
1:D:2368:PHE:CE1	1:D:2395:HIS:HE1	1.65	1.14
1:C:2219:LEU:HD13	1:C:2220:THR:N	0.86	1.14
1:C:2618:ARG:HG3	1:C:2628:PHE:CZ	1.71	1.14
1:B:66:TYR:HB2	1:B:156:ASN:O	1.44	1.14
1:B:2368:PHE:CE1	1:B:2395:HIS:HE1	1.65	1.14
1:A:1626:LEU:O	1:A:1630:LEU:N	1.79	1.14
1:D:66:TYR:HB2	1:D:156:ASN:O	1.44	1.14
1:D:2423:ARG:O	1:D:2424:GLU:CD	1.91	1.14
1:B:2232:GLU:HB3	1:B:2242:ASP:OD2	0.95	1.13
1:B:2368:PHE:CE1	1:B:2395:HIS:CE1	2.35	1.13
1:A:520:PHE:HZ	1:A:576:LYS:NZ	1.46	1.13
1:D:2705:THR:HA	1:D:2708:LEU:HD21	1.25	1.13
1:D:2215:ILE:O	1:D:2254:MET:HE2	1.44	1.13
1:A:514:ASN:HB3	1:A:517:LYS:HD3	1.18	1.13
1:D:80:ALA:O	1:D:81:ASN:CG	1.90	1.13
1:D:2410:GLU:O	1:D:2411:PHE:C	1.84	1.13
1:B:520:PHE:HZ	1:B:576:LYS:NZ	1.46	1.13
1:B:2706:MET:HG2	1:A:2707:LYS:CG	1.75	1.13
1:A:2423:ARG:O	1:A:2424:GLU:OE1	1.66	1.13
1:D:2368:PHE:CE1	1:D:2395:HIS:CE1	2.35	1.13
1:D:2465:ASP:O	1:D:2553:LEU:HD22	1.44	1.13
1:C:2379:PHE:CD1	1:C:2392:PHE:CZ	2.35	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2700:GLU:OE2	1:C:2699:GLN:CB	1.95	1.12
1:D:2232:GLU:HB3	1:D:2242:ASP:OD2	0.95	1.12
1:C:66:TYR:HA	1:C:156:ASN:ND2	1.64	1.13
1:A:66:TYR:HA	1:A:156:ASN:ND2	1.64	1.12
1:A:2423:ARG:O	1:A:2424:GLU:CD	1.91	1.12
1:C:520:PHE:HZ	1:C:576:LYS:NZ	1.46	1.12
1:C:2398:TYR:CD1	1:C:2416:LEU:HD21	1.83	1.12
1:B:2398:TYR:CD1	1:B:2416:LEU:HD21	1.83	1.12
1:B:2423:ARG:O	1:B:2424:GLU:OE1	1.66	1.12
1:B:2705:THR:HA	1:B:2708:LEU:HD21	1.25	1.12
1:B:2736:LEU:O	1:C:364:ILE:HG13	1.48	1.12
1:A:66:TYR:HB2	1:A:156:ASN:O	1.44	1.12
1:A:2266:LEU:O	1:A:2269:CYS:CB	1.96	1.12
1:A:2368:PHE:CE1	1:A:2395:HIS:HE1	1.65	1.12
1:D:2266:LEU:O	1:D:2269:CYS:CB	1.96	1.12
1:D:2398:TYR:CD1	1:D:2416:LEU:HD21	1.83	1.12
1:D:2455:PHE:HE2	1:D:2572:LEU:HD11	1.12	1.12
1:B:2609:THR:CG2	1:B:2618:ARG:HH12	1.61	1.12
1:A:2398:TYR:CD1	1:A:2416:LEU:HD21	1.83	1.12
1:D:2276:TRP:CB	1:D:2368:PHE:HB2	1.79	1.12
1:C:2219:LEU:HD21	1:C:2223:SER:OG	1.49	1.12
1:C:2266:LEU:O	1:C:2269:CYS:CB	1.96	1.12
1:B:2266:LEU:O	1:B:2269:CYS:CB	1.96	1.12
1:B:2699:GLN:CD	1:A:2700:GLU:CG	2.23	1.12
1:D:2219:LEU:HD13	1:D:2220:THR:N	0.86	1.12
1:D:2219:LEU:HD21	1:D:2223:SER:OG	1.48	1.12
1:B:2276:TRP:CB	1:B:2368:PHE:HB2	1.79	1.12
1:B:2549:VAL:HG11	1:B:2573:PHE:HD2	1.14	1.12
1:B:2707:LYS:HD3	1:C:2706:MET:CB	1.79	1.12
1:C:1345:TYR:O	1:C:1349:ALA:CA	1.98	1.12
1:C:2232:GLU:HB3	1:C:2242:ASP:OD2	0.95	1.12
1:C:2423:ARG:O	1:C:2424:GLU:OE1	1.66	1.12
1:C:2455:PHE:HE2	1:C:2572:LEU:HD11	1.12	1.12
1:B:2700:GLU:CG	1:C:2699:GLN:CD	2.23	1.11
1:A:2231:THR:HG23	1:A:2232:GLU:CA	1.80	1.11
1:A:2232:GLU:HB3	1:A:2242:ASP:OD2	0.95	1.11
1:A:2549:VAL:HG11	1:A:2573:PHE:HD2	1.14	1.11
1:D:2707:LYS:HG2	1:D:2711:ASN:ND2	1.65	1.11
1:C:2279:ILE:HD13	1:C:2364:ASN:HB3	1.31	1.11
1:C:2351:GLN:N	1:C:2352:PRO:CD	2.14	1.11
1:B:66:TYR:HA	1:B:156:ASN:ND2	1.64	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2351:GLN:N	1:B:2352:PRO:CD	2.14	1.11
1:A:2219:LEU:HD21	1:A:2223:SER:OG	1.49	1.11
1:B:2231:THR:HG23	1:B:2232:GLU:CA	1.80	1.11
1:A:2351:GLN:N	1:A:2352:PRO:CD	2.13	1.11
1:A:2699:GLN:CG	1:D:2700:GLU:HG3	1.81	1.11
1:B:510:MET:CG	1:B:515:ILE:HD12	1.59	1.11
1:A:2227:ILE:HG22	1:A:2638:MET:HE1	1.24	1.11
1:A:2609:THR:CG2	1:A:2618:ARG:HH12	1.61	1.11
1:D:1345:TYR:O	1:D:1349:ALA:CA	1.98	1.11
1:D:2144:ASP:H	1:D:2651:LYS:HB2	1.00	1.11
1:B:2219:LEU:HD21	1:B:2223:SER:OG	1.49	1.11
1:D:2351:GLN:N	1:D:2352:PRO:CD	2.13	1.11
1:C:2372:PHE:CE1	1:C:2391:GLU:HG2	1.86	1.11
1:A:2618:ARG:HG3	1:A:2628:PHE:CZ	1.71	1.10
1:D:2707:LYS:HG2	1:D:2711:ASN:HD21	1.04	1.10
1:C:2276:TRP:CB	1:C:2368:PHE:HB2	1.79	1.10
1:B:1345:TYR:O	1:B:1349:ALA:CA	1.98	1.10
1:B:2707:LYS:HG2	1:B:2711:ASN:ND2	1.65	1.10
1:A:1345:TYR:O	1:A:1349:ALA:CA	1.98	1.10
1:A:2276:TRP:CB	1:A:2368:PHE:HB2	1.79	1.10
1:C:520:PHE:CZ	1:C:576:LYS:CE	2.34	1.10
1:C:2695:LEU:HD23	1:C:2698:LEU:CD1	1.69	1.10
1:A:2281:PHE:HA	1:A:2420:LEU:CD2	1.79	1.10
1:D:2618:ARG:HG3	1:D:2628:PHE:CZ	1.71	1.10
1:A:538:LEU:CD2	1:A:586:GLY:HA3	1.76	1.10
1:D:2372:PHE:CE1	1:D:2391:GLU:HG2	1.86	1.10
1:C:2227:ILE:HG22	1:C:2638:MET:HE1	1.24	1.10
1:C:2707:LYS:HG2	1:C:2711:ASN:ND2	1.65	1.10
1:B:520:PHE:CZ	1:B:576:LYS:CE	2.34	1.10
1:B:2281:PHE:HA	1:B:2420:LEU:CD2	1.80	1.10
1:B:2372:PHE:CE1	1:B:2391:GLU:HG2	1.86	1.10
1:A:2707:LYS:HG2	1:A:2711:ASN:HD21	1.04	1.10
1:A:2707:LYS:HG2	1:A:2711:ASN:ND2	1.65	1.10
1:D:66:TYR:HA	1:D:156:ASN:ND2	1.64	1.10
1:D:2231:THR:HG23	1:D:2232:GLU:CA	1.80	1.10
1:D:2609:THR:CG2	1:D:2618:ARG:HH12	1.61	1.10
1:D:2699:GLN:HB2	1:C:2700:GLU:OE2	1.49	1.10
1:B:538:LEU:HG	1:B:586:GLY:HA2	1.20	1.09
1:B:2176:PRO:C	1:B:2186:LEU:HD11	1.77	1.09
1:B:2699:GLN:CG	1:A:2700:GLU:HG3	1.80	1.09
1:D:520:PHE:CZ	1:D:576:LYS:CE	2.34	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2351:GLN:N	1:D:2352:PRO:HD2	1.66	1.09
1:A:2372:PHE:CE1	1:A:2391:GLU:HG2	1.86	1.09
1:D:2618:ARG:HD2	1:D:2628:PHE:CE2	1.88	1.09
1:B:514:ASN:HB3	1:B:517:LYS:HD3	1.18	1.09
1:D:2176:PRO:C	1:D:2186:LEU:HD11	1.77	1.09
1:C:2351:GLN:N	1:C:2352:PRO:HD2	1.66	1.09
1:A:520:PHE:CZ	1:A:576:LYS:CE	2.34	1.09
1:A:2351:GLN:N	1:A:2352:PRO:HD2	1.66	1.09
1:A:2410:GLU:O	1:A:2411:PHE:C	1.84	1.09
1:A:2465:ASP:O	1:A:2553:LEU:HD22	1.45	1.09
1:D:2379:PHE:CD1	1:D:2392:PHE:CZ	2.35	1.09
1:C:2143:GLU:CA	1:C:2651:LYS:CA	2.31	1.09
1:B:2351:GLN:N	1:B:2352:PRO:HD2	1.66	1.09
1:A:526:PRO:HB2	1:A:549:PHE:HE1	1.17	1.09
1:A:2455:PHE:CE2	1:A:2572:LEU:HD11	1.87	1.09
1:D:2276:TRP:CB	1:D:2368:PHE:CB	2.31	1.09
1:C:2144:ASP:H	1:C:2651:LYS:HB2	1.00	1.09
1:B:2249:ASP:OD1	1:B:2382:GLY:HA3	1.53	1.08
1:A:2618:ARG:HD2	1:A:2628:PHE:CE2	1.88	1.08
1:D:2706:MET:HG2	1:C:2707:LYS:CE	1.82	1.08
1:B:2143:GLU:CA	1:B:2651:LYS:CA	2.31	1.08
1:B:2455:PHE:CE2	1:B:2572:LEU:HD11	1.87	1.08
1:B:2618:ARG:HD2	1:B:2628:PHE:CE2	1.88	1.08
1:A:510:MET:CG	1:A:515:ILE:HD12	1.59	1.08
1:A:2176:PRO:C	1:A:2186:LEU:HD11	1.77	1.08
1:A:2705:THR:HA	1:A:2708:LEU:HD21	1.25	1.08
1:D:526:PRO:HB2	1:D:549:PHE:HE1	1.17	1.08
1:C:2231:THR:HG23	1:C:2232:GLU:CA	1.80	1.08
1:B:394:CYS:HB3	1:A:2737:GLY:CA	1.83	1.08
1:A:2249:ASP:OD1	1:A:2382:GLY:HA3	1.53	1.08
1:B:520:PHE:CZ	1:B:576:LYS:NZ	2.21	1.08
1:B:2276:TRP:CB	1:B:2368:PHE:CB	2.31	1.08
1:B:2695:LEU:HD23	1:B:2698:LEU:CD1	1.69	1.08
1:A:538:LEU:HG	1:A:586:GLY:HA2	1.20	1.08
1:A:2143:GLU:CA	1:A:2651:LYS:CA	2.31	1.08
1:A:2243:PHE:CE1	1:A:2612:PHE:CZ	2.40	1.08
1:D:394:CYS:CB	1:C:2737:GLY:HA3	1.82	1.08
1:D:2227:ILE:HG22	1:D:2638:MET:HE1	1.24	1.08
1:D:2410:GLU:O	1:D:2413:TYR:N	1.87	1.08
1:C:2618:ARG:HD2	1:C:2628:PHE:CE2	1.88	1.08
1:B:2227:ILE:HG22	1:B:2638:MET:HE1	1.24	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:379:ASP:OD2	1:C:2722:GLN:CB	1.99	1.08
1:D:526:PRO:CB	1:D:549:PHE:HE1	1.67	1.08
1:C:364:ILE:HG22	1:C:393:LEU:HG	1.35	1.08
1:B:2465:ASP:O	1:B:2553:LEU:HD22	1.44	1.07
1:D:2143:GLU:CA	1:D:2651:LYS:CA	2.31	1.07
1:B:2275:PHE:HD1	1:B:2276:TRP:N	1.52	1.07
1:B:2410:GLU:O	1:B:2413:TYR:N	1.87	1.07
1:B:2700:GLU:CG	1:C:2699:GLN:OE1	2.02	1.07
1:B:2700:GLU:HG3	1:C:2699:GLN:CD	1.76	1.07
1:D:510:MET:HG3	1:D:515:ILE:HD12	1.09	1.07
1:D:2187:GLU:O	1:D:2190:ALA:HB3	1.54	1.07
1:D:2549:VAL:HG11	1:D:2573:PHE:HD2	1.14	1.07
1:C:2176:PRO:C	1:C:2186:LEU:HD11	1.77	1.07
1:C:2275:PHE:HD1	1:C:2276:TRP:N	1.53	1.07
1:C:2281:PHE:HA	1:C:2420:LEU:CD2	1.79	1.07
1:B:2625:THR:HG22	1:B:2626:VAL:N	1.60	1.07
1:A:2281:PHE:CA	1:A:2420:LEU:HD23	1.83	1.07
1:D:510:MET:CG	1:D:515:ILE:HD12	1.59	1.07
1:D:2455:PHE:CE2	1:D:2572:LEU:HD11	1.87	1.07
1:D:2699:GLN:CB	1:C:2700:GLU:OE2	2.02	1.07
1:C:538:LEU:CD2	1:C:586:GLY:HA3	1.76	1.07
1:C:2455:PHE:CE2	1:C:2572:LEU:HD11	1.87	1.07
1:C:2549:VAL:HG11	1:C:2573:PHE:HD2	1.14	1.07
1:B:2700:GLU:HG3	1:C:2699:GLN:CG	1.85	1.07
1:A:2379:PHE:CD1	1:A:2392:PHE:CZ	2.35	1.07
1:D:2249:ASP:OD1	1:D:2382:GLY:HA3	1.53	1.07
1:C:2276:TRP:CD2	1:C:2368:PHE:HD1	1.51	1.07
1:C:2276:TRP:CB	1:C:2368:PHE:CB	2.31	1.07
1:A:2455:PHE:HE2	1:A:2572:LEU:HD11	1.12	1.07
1:D:538:LEU:CD2	1:D:586:GLY:HA3	1.76	1.07
1:D:2706:MET:CB	1:C:2707:LYS:HD3	1.85	1.07
1:C:2249:ASP:OD1	1:C:2382:GLY:HA3	1.53	1.07
1:C:2410:GLU:O	1:C:2413:TYR:N	1.87	1.07
1:B:2455:PHE:HE2	1:B:2572:LEU:HD11	1.12	1.06
1:D:516:LEU:HD22	1:D:516:LEU:H	1.20	1.06
1:D:2243:PHE:CE1	1:D:2612:PHE:CZ	2.40	1.06
1:D:2276:TRP:CH2	1:D:2395:HIS:ND1	2.23	1.06
1:B:2187:GLU:O	1:B:2190:ALA:HB3	1.54	1.06
1:B:2707:LYS:CG	1:C:2706:MET:HG2	1.85	1.06
1:A:526:PRO:CB	1:A:549:PHE:HE1	1.67	1.06
1:C:2243:PHE:CE1	1:C:2612:PHE:CZ	2.40	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:367:ILE:O	1:B:393:LEU:CB	2.04	1.06
1:A:364:ILE:HG13	1:D:2736:LEU:O	1.53	1.06
1:A:2144:ASP:H	1:A:2651:LYS:HB2	1.00	1.06
1:A:2275:PHE:HD1	1:A:2276:TRP:N	1.53	1.06
1:C:510:MET:HG3	1:C:515:ILE:HD12	1.09	1.06
1:C:2231:THR:HG23	1:C:2232:GLU:N	1.09	1.06
1:B:538:LEU:CD2	1:B:586:GLY:HA3	1.76	1.06
1:B:2276:TRP:CH2	1:B:2395:HIS:ND1	2.23	1.06
1:A:2276:TRP:CH2	1:A:2395:HIS:ND1	2.23	1.06
1:D:2279:ILE:HD13	1:D:2364:ASN:HB3	1.31	1.06
1:D:2281:PHE:CA	1:D:2420:LEU:HD23	1.83	1.06
1:A:367:ILE:O	1:A:393:LEU:CB	2.04	1.06
1:A:2410:GLU:O	1:A:2413:TYR:N	1.87	1.06
1:D:2227:ILE:HD11	1:D:2246:ARG:HG3	1.36	1.06
1:D:2275:PHE:HD1	1:D:2276:TRP:N	1.52	1.06
1:C:526:PRO:CB	1:C:549:PHE:HE1	1.67	1.06
1:C:2276:TRP:CH2	1:C:2395:HIS:ND1	2.23	1.06
1:B:526:PRO:CB	1:B:549:PHE:HE1	1.67	1.05
1:B:526:PRO:HB2	1:B:549:PHE:HE1	1.17	1.05
1:A:2187:GLU:O	1:A:2190:ALA:HB3	1.54	1.05
1:A:2276:TRP:CD2	1:A:2368:PHE:HD1	1.51	1.05
1:A:2276:TRP:CB	1:A:2368:PHE:CB	2.31	1.05
1:A:2279:ILE:HD13	1:A:2364:ASN:HB3	1.31	1.05
1:A:2699:GLN:CD	1:D:2700:GLU:HG2	1.81	1.05
1:D:2292:ALA:HB2	1:C:2453:TYR:OH	1.56	1.05
1:C:520:PHE:CZ	1:C:576:LYS:NZ	2.21	1.05
1:C:2143:GLU:N	1:C:2651:LYS:CB	2.18	1.05
1:A:2379:PHE:CZ	1:A:2392:PHE:CZ	2.44	1.05
1:D:2379:PHE:CZ	1:D:2392:PHE:CZ	2.44	1.05
1:C:516:LEU:HD22	1:C:516:LEU:H	1.20	1.05
1:C:2187:GLU:O	1:C:2190:ALA:HB3	1.54	1.05
1:B:364:ILE:HG22	1:B:393:LEU:HG	1.35	1.05
1:B:2722:GLN:CB	1:C:379:ASP:OD2	2.04	1.05
1:C:2609:THR:CG2	1:C:2618:ARG:HH12	1.61	1.05
1:B:2279:ILE:HD13	1:B:2364:ASN:HB3	1.31	1.05
1:B:2379:PHE:CZ	1:B:2392:PHE:CZ	2.44	1.05
1:A:520:PHE:CZ	1:A:576:LYS:NZ	2.21	1.05
1:D:553:CYS:HB3	1:D:557:TYR:HE2	0.90	1.05
1:C:526:PRO:HB2	1:C:549:PHE:HE1	1.17	1.05
1:C:2227:ILE:HD11	1:C:2246:ARG:HG3	1.36	1.05
1:B:2281:PHE:CA	1:B:2420:LEU:HD23	1.83	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:520:PHE:CZ	1:D:576:LYS:NZ	2.21	1.05
1:B:2699:GLN:CD	1:A:2700:GLU:HG3	1.80	1.04
1:A:1627:VAL:O	1:A:1631:HIS:N	1.90	1.04
1:B:553:CYS:O	1:B:557:TYR:CD2	2.11	1.04
1:B:2276:TRP:CD2	1:B:2368:PHE:HD1	1.51	1.04
1:D:367:ILE:O	1:D:393:LEU:CB	2.04	1.04
1:D:1627:VAL:O	1:D:1631:HIS:N	1.90	1.04
1:D:2231:THR:HG23	1:D:2232:GLU:N	1.09	1.04
1:D:2281:PHE:HA	1:D:2420:LEU:CD2	1.79	1.04
1:D:2699:GLN:CG	1:C:2700:GLU:HG3	1.86	1.04
1:C:2143:GLU:CA	1:C:2651:LYS:HA	1.87	1.04
1:B:516:LEU:H	1:B:516:LEU:HD22	1.20	1.04
1:A:379:ASP:OD1	1:D:2722:GLN:CB	2.04	1.04
1:A:2465:ASP:O	1:A:2553:LEU:HD23	1.55	1.04
1:C:2379:PHE:CZ	1:C:2392:PHE:CZ	2.44	1.04
1:A:2176:PRO:O	1:A:2186:LEU:CD1	2.06	1.04
1:C:2288:ASN:OD1	1:C:2413:TYR:HB3	1.58	1.04
1:B:2143:GLU:CA	1:B:2651:LYS:HA	1.87	1.04
1:B:2144:ASP:H	1:B:2651:LYS:HB2	1.00	1.04
1:B:2609:THR:HG22	1:B:2618:ARG:HH12	0.87	1.04
1:B:2699:GLN:OE1	1:A:2700:GLU:CG	2.04	1.04
1:A:364:ILE:HG22	1:A:393:LEU:HG	1.35	1.04
1:A:2143:GLU:CA	1:A:2651:LYS:HA	1.87	1.04
1:A:2227:ILE:HD11	1:A:2246:ARG:HG3	1.36	1.04
1:D:2143:GLU:CA	1:D:2651:LYS:HA	1.87	1.04
1:D:2276:TRP:CD2	1:D:2368:PHE:HD1	1.51	1.04
1:C:2705:THR:HA	1:C:2708:LEU:CD2	1.83	1.04
1:B:553:CYS:HB3	1:B:557:TYR:HE2	0.90	1.03
1:B:2176:PRO:O	1:B:2186:LEU:CD1	2.06	1.03
1:D:2288:ASN:OD1	1:D:2413:TYR:HB3	1.58	1.03
1:B:1627:VAL:O	1:B:1631:HIS:N	1.90	1.03
1:A:516:LEU:HD22	1:A:516:LEU:H	1.20	1.03
1:D:364:ILE:HG22	1:D:393:LEU:HG	1.35	1.03
1:D:510:MET:HG3	1:D:515:ILE:HD13	1.36	1.03
1:D:2176:PRO:O	1:D:2186:LEU:CD1	2.06	1.03
1:C:367:ILE:O	1:C:393:LEU:CB	2.04	1.03
1:C:1627:VAL:O	1:C:1631:HIS:N	1.90	1.03
1:C:2465:ASP:O	1:C:2553:LEU:HD23	1.55	1.03
1:B:379:ASP:OD2	1:A:2722:GLN:CB	2.06	1.03
1:A:553:CYS:HB3	1:A:557:TYR:HE2	0.90	1.03
1:A:2288:ASN:OD1	1:A:2413:TYR:HB3	1.58	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1278:MET:O	1:D:1279:ASN:O	1.76	1.03
1:D:2388:LEU:HD23	1:D:2388:LEU:H	1.24	1.03
1:B:394:CYS:CB	1:A:2737:GLY:HA3	1.88	1.03
1:B:1278:MET:O	1:B:1279:ASN:O	1.76	1.03
1:B:2227:ILE:HD11	1:B:2246:ARG:HG3	1.36	1.03
1:D:553:CYS:O	1:D:557:TYR:CD2	2.11	1.03
1:C:553:CYS:HB3	1:C:557:TYR:HE2	0.90	1.03
1:C:553:CYS:O	1:C:557:TYR:CD2	2.11	1.03
1:B:2710:THR:HG21	1:A:2711:ASN:OD1	1.59	1.03
1:A:510:MET:HG3	1:A:515:ILE:HD13	1.36	1.03
1:A:553:CYS:O	1:A:557:TYR:CD2	2.11	1.03
1:B:2549:VAL:HG11	1:B:2573:PHE:CD2	1.91	1.02
1:D:2279:ILE:HD11	1:D:2364:ASN:HB3	1.06	1.02
1:C:2281:PHE:CA	1:C:2420:LEU:HD23	1.83	1.02
1:C:2609:THR:HG22	1:C:2618:ARG:HH12	0.87	1.02
1:B:364:ILE:HG13	1:A:2736:LEU:C	1.83	1.02
1:B:2737:GLY:CA	1:C:394:CYS:HB3	1.88	1.02
1:D:2143:GLU:N	1:D:2651:LYS:CB	2.18	1.02
1:D:2368:PHE:HE1	1:D:2395:HIS:CE1	1.78	1.02
1:C:2176:PRO:O	1:C:2186:LEU:CD1	2.06	1.02
1:A:392:HIS:CE1	1:A:397:THR:N	2.19	1.02
1:A:2609:THR:HG22	1:A:2618:ARG:HH12	0.87	1.02
1:D:526:PRO:CB	1:D:549:PHE:CE1	2.42	1.02
1:C:1278:MET:O	1:C:1279:ASN:O	1.76	1.02
1:B:392:HIS:CE1	1:B:397:THR:N	2.19	1.02
1:B:526:PRO:CB	1:B:549:PHE:CE1	2.42	1.02
1:B:2337:ILE:H	1:B:2337:ILE:HD12	1.23	1.02
1:B:2625:THR:HG22	1:B:2626:VAL:H	0.87	1.02
1:A:526:PRO:CB	1:A:549:PHE:CE1	2.42	1.02
1:D:392:HIS:CE1	1:D:397:THR:N	2.19	1.02
1:D:2699:GLN:CD	1:C:2700:GLU:CG	2.31	1.02
1:C:526:PRO:CB	1:C:549:PHE:CE1	2.42	1.02
1:C:1278:MET:O	1:C:1279:ASN:C	2.03	1.02
1:C:2388:LEU:HD23	1:C:2388:LEU:H	1.24	1.02
1:C:2625:THR:HG22	1:C:2626:VAL:H	0.87	1.02
1:B:538:LEU:HD21	1:B:586:GLY:O	1.60	1.02
1:B:2240:ILE:HD11	1:B:2672:LEU:HD12	1.02	1.02
1:D:526:PRO:HB3	1:D:549:PHE:CE1	1.95	1.02
1:C:392:HIS:CE1	1:C:397:THR:N	2.19	1.02
1:B:2454:LEU:HD23	1:B:2454:LEU:H	1.23	1.01
1:C:510:MET:HG3	1:C:515:ILE:HD13	1.36	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:538:LEU:HD21	1:C:586:GLY:O	1.60	1.01
1:B:538:LEU:CG	1:B:586:GLY:CA	2.22	1.01
1:A:526:PRO:HB3	1:A:549:PHE:CE1	1.95	1.01
1:A:2143:GLU:N	1:A:2651:LYS:CB	2.18	1.01
1:A:2388:LEU:HD23	1:A:2388:LEU:H	1.24	1.01
1:A:2454:LEU:HD23	1:A:2454:LEU:H	1.23	1.01
1:A:2625:THR:O	1:A:2626:VAL:C	2.00	1.01
1:D:2625:THR:O	1:D:2626:VAL:C	2.00	1.01
1:B:510:MET:HG3	1:B:515:ILE:HD13	1.36	1.01
1:B:2243:PHE:CE1	1:B:2612:PHE:CZ	2.40	1.01
1:B:2288:ASN:OD1	1:B:2413:TYR:HB3	1.58	1.01
1:B:2465:ASP:O	1:B:2553:LEU:HD23	1.55	1.01
1:D:2609:THR:HG22	1:D:2618:ARG:HH12	0.87	1.01
1:D:2609:THR:HB	1:D:2618:ARG:HH11	1.24	1.01
1:C:2279:ILE:HD11	1:C:2364:ASN:HB3	1.06	1.01
1:B:2401:ILE:HD11	1:B:2416:LEU:HB2	1.43	1.01
1:B:2625:THR:O	1:B:2626:VAL:C	2.00	1.01
1:A:1278:MET:O	1:A:1279:ASN:O	1.76	1.01
1:A:2240:ILE:HD11	1:A:2672:LEU:HD12	1.02	1.01
1:A:2609:THR:HB	1:A:2618:ARG:HH11	1.24	1.01
1:B:2279:ILE:HD11	1:B:2364:ASN:HB3	1.06	1.01
1:A:379:ASP:OD2	1:D:2722:GLN:CB	2.07	1.01
1:A:2401:ILE:HD11	1:A:2416:LEU:HB2	1.43	1.01
1:B:1278:MET:O	1:B:1279:ASN:C	2.03	1.00
1:B:2388:LEU:HD23	1:B:2388:LEU:H	1.24	1.00
1:A:2227:ILE:HD11	1:A:2246:ARG:HG2	1.18	1.00
1:A:2279:ILE:HD11	1:A:2364:ASN:HB3	1.06	1.00
1:D:553:CYS:O	1:D:557:TYR:HD2	1.43	1.00
1:B:526:PRO:HB3	1:B:549:PHE:CE1	1.95	1.00
1:B:2143:GLU:N	1:B:2651:LYS:CB	2.18	1.00
1:B:2699:GLN:CD	1:A:2700:GLU:HG2	1.85	1.00
1:B:2707:LYS:HD3	1:C:2706:MET:HG2	1.14	1.00
1:A:80:ALA:O	1:A:81:ASN:OD1	1.79	1.00
1:D:80:ALA:O	1:D:81:ASN:OD1	1.79	1.00
1:D:2454:LEU:HD23	1:D:2454:LEU:H	1.23	1.00
1:D:2465:ASP:O	1:D:2553:LEU:HD23	1.55	1.00
1:B:2699:GLN:HG2	1:A:2700:GLU:HG3	1.40	1.00
1:D:379:ASP:OD1	1:C:2722:GLN:CB	2.08	1.00
1:D:538:LEU:HD21	1:D:586:GLY:O	1.60	1.00
1:C:526:PRO:HB3	1:C:549:PHE:CE1	1.95	1.00
1:B:520:PHE:CZ	1:B:576:LYS:HE2	1.96	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:LEU:HD21	1:A:586:GLY:O	1.60	1.00
1:A:2625:THR:HG22	1:A:2626:VAL:H	0.87	1.00
1:D:364:ILE:HD12	1:C:2736:LEU:CB	1.68	1.00
1:D:510:MET:HG2	1:D:516:LEU:HD11	1.43	1.00
1:C:2454:LEU:HD23	1:C:2454:LEU:H	1.23	1.00
1:B:2722:GLN:CB	1:C:379:ASP:OD1	2.08	1.00
1:A:2706:MET:HB3	1:D:2707:LYS:HD3	1.40	1.00
1:D:2625:THR:HG22	1:D:2626:VAL:H	0.87	1.00
1:C:553:CYS:O	1:C:557:TYR:HD2	1.43	1.00
1:B:2188:PHE:O	1:B:2191:LYS:HB3	1.62	1.00
1:D:2549:VAL:HG11	1:D:2573:PHE:CD2	1.91	1.00
1:A:2188:PHE:O	1:A:2191:LYS:HB3	1.62	1.00
1:D:2188:PHE:O	1:D:2191:LYS:HB3	1.62	1.00
1:C:510:MET:HG2	1:C:516:LEU:HD11	1.43	1.00
1:C:2337:ILE:HD12	1:C:2337:ILE:H	1.23	1.00
1:D:2240:ILE:HD11	1:D:2672:LEU:HD12	1.02	0.99
1:B:364:ILE:HD11	1:A:2736:LEU:CA	1.92	0.99
1:A:553:CYS:O	1:A:557:TYR:HD2	1.43	0.99
1:A:2337:ILE:H	1:A:2337:ILE:HD12	1.23	0.99
1:D:2705:THR:HA	1:D:2708:LEU:CD2	1.83	0.99
1:C:2276:TRP:CD2	1:C:2368:PHE:CE1	2.51	0.99
1:A:364:ILE:HG13	1:D:2736:LEU:C	1.87	0.99
1:D:2276:TRP:CD2	1:D:2368:PHE:CE1	2.50	0.99
1:D:2337:ILE:H	1:D:2337:ILE:HD12	1.23	0.99
1:C:80:ALA:O	1:C:81:ASN:OD1	1.79	0.99
1:B:379:ASP:OD1	1:A:2722:GLN:CB	2.06	0.99
1:B:2737:GLY:HA3	1:C:394:CYS:CB	1.93	0.99
1:A:2699:GLN:OE1	1:D:2700:GLU:HG3	1.53	0.99
1:B:2231:THR:HG23	1:B:2232:GLU:N	1.09	0.99
1:C:2240:ILE:HD11	1:C:2672:LEU:HD12	1.02	0.99
1:A:2625:THR:HG22	1:A:2626:VAL:N	1.60	0.99
1:D:2276:TRP:CH2	1:D:2395:HIS:CG	2.51	0.99
1:C:2401:ILE:HD11	1:C:2416:LEU:HB2	1.43	0.99
1:D:394:CYS:HB3	1:C:2737:GLY:HA3	1.43	0.99
1:D:2227:ILE:CG2	1:D:2638:MET:CE	2.41	0.99
1:C:2276:TRP:CH2	1:C:2395:HIS:CG	2.51	0.99
1:D:520:PHE:CZ	1:D:576:LYS:HE2	1.96	0.99
1:C:2227:ILE:CG2	1:C:2638:MET:HE2	1.93	0.99
1:C:2625:THR:CG2	1:C:2626:VAL:N	2.09	0.99
1:B:2609:THR:HB	1:B:2618:ARG:HH11	1.24	0.99
1:A:1278:MET:O	1:A:1279:ASN:C	2.03	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:510:MET:HG2	1:B:516:LEU:HD11	1.43	0.99
1:A:2706:MET:HG2	1:D:2707:LYS:CG	1.91	0.99
1:D:2227:ILE:CG2	1:D:2638:MET:HE2	1.93	0.99
1:B:80:ALA:O	1:B:81:ASN:OD1	1.79	0.98
1:D:2699:GLN:HG2	1:C:2700:GLU:HG3	1.44	0.98
1:A:2549:VAL:HG11	1:A:2573:PHE:CD2	1.91	0.98
1:D:2143:GLU:H	1:D:2651:LYS:CB	1.76	0.98
1:D:2401:ILE:HD11	1:D:2416:LEU:HB2	1.43	0.98
1:C:2345:ILE:CB	1:C:2353:THR:CG2	2.34	0.98
1:B:553:CYS:O	1:B:557:TYR:HD2	1.43	0.98
1:A:461:GLU:HG3	1:A:525:ALA:C	1.89	0.98
1:D:1198:ARG:O	1:D:1200:GLN:N	1.97	0.98
1:C:2609:THR:HB	1:C:2618:ARG:HH11	1.24	0.98
1:A:2227:ILE:CG2	1:A:2638:MET:HE2	1.93	0.98
1:A:2227:ILE:CG2	1:A:2638:MET:CE	2.41	0.98
1:C:461:GLU:HG3	1:C:525:ALA:C	1.89	0.98
1:C:2188:PHE:O	1:C:2191:LYS:HB3	1.62	0.98
1:B:2276:TRP:CD2	1:B:2368:PHE:CE1	2.51	0.98
1:B:2368:PHE:HE1	1:B:2395:HIS:CE1	1.78	0.98
1:A:2609:THR:HA	1:A:2618:ARG:NE	1.79	0.98
1:B:2227:ILE:CG2	1:B:2638:MET:HE2	1.93	0.98
1:A:510:MET:HG2	1:A:516:LEU:HD11	1.43	0.98
1:A:2276:TRP:CD2	1:A:2368:PHE:CE1	2.50	0.98
1:A:2710:THR:HG21	1:D:2711:ASN:OD1	1.63	0.98
1:B:461:GLU:HG3	1:B:525:ALA:C	1.89	0.98
1:B:2281:PHE:HA	1:B:2420:LEU:HD23	0.98	0.98
1:A:2276:TRP:CH2	1:A:2395:HIS:CG	2.51	0.98
1:D:364:ILE:HD11	1:C:2736:LEU:HG	1.39	0.98
1:D:2345:ILE:CB	1:D:2353:THR:CG2	2.34	0.98
1:C:391:ARG:HD3	1:C:396:ASN:HB3	1.43	0.98
1:C:2227:ILE:CG2	1:C:2638:MET:CE	2.41	0.98
1:B:391:ARG:HD3	1:B:396:ASN:HB3	1.43	0.98
1:B:2276:TRP:CH2	1:B:2395:HIS:CG	2.51	0.98
1:A:1198:ARG:O	1:A:1200:GLN:N	1.97	0.98
1:D:364:ILE:HG13	1:C:2736:LEU:C	1.88	0.98
1:D:2466:ASP:O	1:D:2553:LEU:O	1.82	0.98
1:B:2227:ILE:CG2	1:B:2638:MET:CE	2.41	0.98
1:A:394:CYS:CB	1:D:2737:GLY:HA3	1.94	0.98
1:C:2281:PHE:HA	1:C:2420:LEU:HD23	0.98	0.98
1:C:2625:THR:O	1:C:2626:VAL:C	2.00	0.98
1:D:461:GLU:HG3	1:D:525:ALA:C	1.89	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2609:THR:HA	1:C:2618:ARG:NE	1.79	0.97
1:B:2219:LEU:CG	1:B:2220:THR:N	2.25	0.97
1:D:391:ARG:HD3	1:D:396:ASN:HB3	1.43	0.97
1:C:2466:ASP:O	1:C:2553:LEU:O	1.82	0.97
1:B:2365:LYS:HA	1:B:2368:PHE:CE2	2.00	0.97
1:B:1198:ARG:O	1:B:1200:GLN:N	1.97	0.97
1:C:538:LEU:HD21	1:C:586:GLY:HA3	1.36	0.97
1:A:520:PHE:CZ	1:A:576:LYS:HE2	1.96	0.97
1:A:520:PHE:CE2	1:A:576:LYS:HE2	1.99	0.97
1:D:1278:MET:O	1:D:1279:ASN:C	2.03	0.97
1:D:2699:GLN:CD	1:C:2700:GLU:HG3	1.87	0.97
1:D:2699:GLN:OE1	1:C:2700:GLU:CG	2.13	0.97
1:C:2143:GLU:H	1:C:2651:LYS:CB	1.76	0.97
1:A:394:CYS:HB3	1:D:2737:GLY:CA	1.93	0.97
1:C:538:LEU:CG	1:C:586:GLY:CA	2.22	0.97
1:C:520:PHE:CZ	1:C:576:LYS:HE2	1.96	0.97
1:B:2227:ILE:HD11	1:B:2246:ARG:HG2	1.18	0.97
1:A:2695:LEU:HD23	1:A:2698:LEU:HD13	1.47	0.97
1:D:2622:ASP:OD2	1:D:2631:HIS:ND1	1.98	0.97
1:C:2285:VAL:HG12	1:C:2417:LEU:HD23	1.47	0.97
1:B:520:PHE:CE2	1:B:576:LYS:HE2	1.99	0.97
1:B:2143:GLU:H	1:B:2651:LYS:CB	1.76	0.97
1:B:2379:PHE:CE1	1:B:2392:PHE:CE1	2.52	0.97
1:B:2609:THR:HA	1:B:2618:ARG:NE	1.79	0.97
1:B:2622:ASP:OD2	1:B:2631:HIS:ND1	1.98	0.97
1:A:1791:SER:O	1:A:1795:VAL:N	1.98	0.97
1:A:2451:LEU:HA	1:A:2454:LEU:HD21	1.47	0.97
1:D:2710:THR:HG21	1:C:2711:ASN:OD1	1.64	0.97
1:D:2281:PHE:HA	1:D:2420:LEU:HD23	0.98	0.97
1:D:520:PHE:CE2	1:D:576:LYS:HE2	1.99	0.96
1:D:2379:PHE:CE1	1:D:2392:PHE:CE1	2.52	0.96
1:C:392:HIS:ND1	1:C:397:THR:N	2.13	0.96
1:C:520:PHE:CE2	1:C:576:LYS:HE2	1.99	0.96
1:B:2451:LEU:HA	1:B:2454:LEU:HD21	1.46	0.96
1:B:2625:THR:CG2	1:B:2626:VAL:N	2.09	0.96
1:A:2466:ASP:O	1:A:2553:LEU:O	1.82	0.96
1:D:2549:VAL:HG13	1:D:2550:GLY:N	1.79	0.96
1:C:2219:LEU:CG	1:C:2220:THR:N	2.26	0.96
1:C:2625:THR:HG22	1:C:2626:VAL:N	1.60	0.96
1:B:2711:ASN:OD1	1:C:2710:THR:HG21	1.65	0.96
1:A:530:CYS:HB2	1:A:541:LEU:CD1	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2281:PHE:HA	1:A:2420:LEU:HD23	0.98	0.96
1:A:2365:LYS:HA	1:A:2368:PHE:CE2	2.00	0.96
1:A:2368:PHE:HE1	1:A:2395:HIS:CE1	1.78	0.96
1:D:394:CYS:CB	1:C:2737:GLY:CA	2.41	0.96
1:C:2372:PHE:CZ	1:C:2391:GLU:HG2	2.01	0.96
1:C:2379:PHE:CE1	1:C:2392:PHE:CE1	2.52	0.96
1:D:2176:PRO:C	1:D:2186:LEU:CD1	2.39	0.96
1:B:2466:ASP:O	1:B:2553:LEU:O	1.82	0.96
1:B:2695:LEU:HD23	1:B:2698:LEU:HD13	1.47	0.96
1:B:2700:GLU:HG2	1:C:2699:GLN:CD	1.89	0.96
1:D:2609:THR:HA	1:D:2618:ARG:NE	1.79	0.96
1:D:2705:THR:O	1:D:2709:VAL:HG22	1.65	0.96
1:C:530:CYS:HB2	1:C:541:LEU:CD1	1.95	0.96
1:B:2176:PRO:C	1:B:2186:LEU:CD1	2.39	0.96
1:B:2372:PHE:CZ	1:B:2391:GLU:HG2	2.01	0.96
1:C:1198:ARG:O	1:C:1200:GLN:N	1.97	0.96
1:C:461:GLU:HG3	1:C:525:ALA:O	1.65	0.96
1:B:461:GLU:HG3	1:B:525:ALA:O	1.65	0.96
1:B:2736:LEU:C	1:C:364:ILE:HG13	1.90	0.96
1:A:2379:PHE:CE1	1:A:2392:PHE:CE1	2.52	0.96
1:A:2622:ASP:OD2	1:A:2631:HIS:ND1	1.98	0.96
1:D:364:ILE:HD11	1:C:2736:LEU:CA	1.95	0.96
1:D:1791:SER:O	1:D:1795:VAL:N	1.98	0.96
1:C:2705:THR:O	1:C:2709:VAL:HG22	1.65	0.96
1:C:1791:SER:O	1:C:1795:VAL:N	1.98	0.96
1:C:2365:LYS:HA	1:C:2368:PHE:CE2	2.00	0.96
1:B:510:MET:HG3	1:B:515:ILE:HD12	1.09	0.95
1:B:530:CYS:HB2	1:B:541:LEU:CD1	1.95	0.95
1:D:530:CYS:HB2	1:D:541:LEU:CD1	1.95	0.95
1:D:2285:VAL:HG12	1:D:2417:LEU:HD23	1.47	0.95
1:B:2549:VAL:HG13	1:B:2550:GLY:N	1.79	0.95
1:A:391:ARG:HD3	1:A:396:ASN:HB3	1.43	0.95
1:D:538:LEU:CG	1:D:586:GLY:CA	2.22	0.95
1:C:2622:ASP:OD2	1:C:2631:HIS:ND1	1.98	0.95
1:B:1631:HIS:O	1:B:1634:GLU:C	2.10	0.95
1:D:2365:LYS:HA	1:D:2368:PHE:CE2	2.00	0.95
1:C:2549:VAL:HG13	1:C:2550:GLY:N	1.79	0.95
1:B:364:ILE:HD11	1:A:2736:LEU:HG	1.47	0.95
1:D:2372:PHE:CZ	1:D:2391:GLU:HG2	2.01	0.95
1:A:538:LEU:CG	1:A:586:GLY:CA	2.22	0.95
1:C:2176:PRO:C	1:C:2186:LEU:CD1	2.39	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:GLU:HG3	1:A:525:ALA:O	1.65	0.95
1:A:2372:PHE:CZ	1:A:2391:GLU:HG2	2.01	0.95
1:D:2695:LEU:HD23	1:D:2698:LEU:HD13	1.47	0.95
1:C:2549:VAL:HG11	1:C:2573:PHE:CD2	1.91	0.95
1:B:2285:VAL:HG12	1:B:2417:LEU:HD23	1.47	0.95
1:A:2176:PRO:C	1:A:2186:LEU:CD1	2.39	0.95
1:C:1631:HIS:O	1:C:1634:GLU:C	2.10	0.95
1:B:2550:GLY:CA	1:B:2570:ASP:OD1	2.15	0.94
1:A:364:ILE:HD11	1:D:2736:LEU:HG	1.47	0.94
1:B:394:CYS:HB3	1:A:2737:GLY:HA3	1.46	0.94
1:A:2231:THR:HG23	1:A:2232:GLU:N	1.09	0.94
1:A:2549:VAL:HG13	1:A:2550:GLY:N	1.79	0.94
1:A:1631:HIS:O	1:A:1634:GLU:C	2.10	0.94
1:D:1631:HIS:O	1:D:1634:GLU:C	2.10	0.94
1:B:2292:ALA:HB2	1:A:2453:TYR:OH	1.66	0.94
1:B:2700:GLU:HG3	1:C:2699:GLN:OE1	1.63	0.94
1:D:461:GLU:HG3	1:D:525:ALA:O	1.65	0.94
1:B:2704:SER:O	1:B:2708:LEU:CG	2.15	0.94
1:A:510:MET:HG3	1:A:515:ILE:HD12	1.09	0.94
1:A:2285:VAL:HG12	1:A:2417:LEU:HD23	1.47	0.94
1:A:2705:THR:O	1:A:2709:VAL:HG22	1.65	0.94
1:D:2218:PHE:HB3	1:D:2254:MET:HE3	1.49	0.94
1:A:2704:SER:O	1:A:2708:LEU:CG	2.15	0.94
1:D:394:CYS:HB3	1:C:2737:GLY:HA2	1.48	0.94
1:C:2451:LEU:HA	1:C:2454:LEU:HD21	1.47	0.94
1:B:2706:MET:HB3	1:A:2707:LYS:HD3	1.48	0.94
1:B:2707:LYS:HD3	1:C:2706:MET:HB3	1.49	0.94
1:A:2550:GLY:CA	1:A:2570:ASP:OD1	2.15	0.94
1:B:1791:SER:O	1:B:1795:VAL:N	1.98	0.94
1:A:2219:LEU:CG	1:A:2220:THR:N	2.26	0.94
1:A:2699:GLN:HG2	1:D:2700:GLU:HG3	1.48	0.94
1:C:2550:GLY:CA	1:C:2570:ASP:OD1	2.15	0.94
1:A:2345:ILE:CD1	1:A:2353:THR:HG21	1.98	0.94
1:C:2704:SER:O	1:C:2708:LEU:CG	2.15	0.94
1:D:2345:ILE:CD1	1:D:2353:THR:HG21	1.98	0.94
1:C:2368:PHE:HE1	1:C:2395:HIS:CE1	1.78	0.94
1:B:364:ILE:CG2	1:B:393:LEU:HG	1.98	0.93
1:B:2706:MET:CG	1:A:2707:LYS:CG	2.43	0.93
1:A:2266:LEU:H	1:A:2266:LEU:HD12	1.33	0.93
1:D:2451:LEU:HA	1:D:2454:LEU:HD21	1.47	0.93
1:B:2288:ASN:HD21	1:B:2414:SER:N	1.65	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:364:ILE:CG2	1:D:393:LEU:HG	1.98	0.93
1:D:2550:GLY:CA	1:D:2570:ASP:OD1	2.15	0.93
1:D:2704:SER:O	1:D:2708:LEU:CG	2.15	0.93
1:B:2345:ILE:CB	1:B:2353:THR:CG2	2.34	0.93
1:D:2219:LEU:CD2	1:D:2220:THR:HG22	1.99	0.93
1:B:2705:THR:O	1:B:2709:VAL:HG22	1.65	0.93
1:A:2219:LEU:CD2	1:A:2220:THR:HG22	1.99	0.93
1:A:2288:ASN:HD21	1:A:2414:SER:N	1.65	0.93
1:A:2705:THR:HA	1:A:2708:LEU:CD2	1.83	0.93
1:D:2288:ASN:HD21	1:D:2414:SER:N	1.65	0.93
1:B:2453:TYR:OH	1:C:2292:ALA:HB2	1.66	0.93
1:C:364:ILE:CG2	1:C:393:LEU:HG	1.98	0.93
1:C:2406:LEU:CD2	1:C:2407:PHE:CE2	2.52	0.93
1:A:538:LEU:HD21	1:A:586:GLY:HA3	1.35	0.93
1:A:2143:GLU:H	1:A:2651:LYS:CB	1.76	0.93
1:D:2227:ILE:HG22	1:D:2638:MET:HE2	1.49	0.93
1:C:66:TYR:HB3	1:C:156:ASN:O	1.68	0.93
1:C:2345:ILE:CD1	1:C:2353:THR:HG21	1.98	0.93
1:C:2695:LEU:HD23	1:C:2698:LEU:HD13	1.47	0.93
1:B:66:TYR:HB3	1:B:156:ASN:O	1.68	0.93
1:D:2625:THR:CG2	1:D:2626:VAL:N	2.09	0.93
1:C:2288:ASN:HD21	1:C:2414:SER:N	1.65	0.93
1:B:2218:PHE:HB3	1:B:2254:MET:HE3	1.49	0.93
1:A:2279:ILE:HD12	1:A:2364:ASN:HB2	1.51	0.93
1:D:2406:LEU:CD2	1:D:2407:PHE:CE2	2.52	0.93
1:D:2618:ARG:HG3	1:D:2628:PHE:HE1	1.12	0.93
1:B:2279:ILE:HD12	1:B:2364:ASN:HB2	1.51	0.93
1:A:2143:GLU:CA	1:A:2651:LYS:HB2	1.97	0.93
1:B:2345:ILE:CD1	1:B:2353:THR:HG21	1.98	0.93
1:A:301:SER:OG	1:A:303:PHE:CE1	2.09	0.93
1:B:302:LEU:O	1:B:367:ILE:HG23	1.69	0.92
1:B:2700:GLU:HG3	1:C:2699:GLN:HG2	1.49	0.92
1:A:2218:PHE:HB3	1:A:2254:MET:HE3	1.49	0.92
1:D:301:SER:OG	1:D:303:PHE:CE1	2.09	0.92
1:A:66:TYR:HB3	1:A:156:ASN:O	1.68	0.92
1:A:364:ILE:CG2	1:A:393:LEU:HG	1.98	0.92
1:D:2266:LEU:H	1:D:2266:LEU:HD12	1.33	0.92
1:D:2379:PHE:CZ	1:D:2392:PHE:CE1	2.57	0.92
1:D:2625:THR:HG22	1:D:2626:VAL:N	1.60	0.92
1:C:2176:PRO:O	1:C:2186:LEU:HD13	1.69	0.92
1:D:2219:LEU:CG	1:D:2220:THR:N	2.26	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:302:LEU:O	1:C:367:ILE:HG23	1.69	0.92
1:B:2176:PRO:O	1:B:2186:LEU:HD13	1.70	0.92
1:B:2398:TYR:CD1	1:B:2416:LEU:CD2	2.53	0.92
1:A:2345:ILE:CB	1:A:2353:THR:CG2	2.34	0.92
1:B:2219:LEU:CD2	1:B:2220:THR:HG22	1.99	0.92
1:C:514:ASN:HB3	1:C:517:LYS:CD	2.00	0.92
1:B:2279:ILE:HD12	1:B:2364:ASN:HB3	0.95	0.92
1:B:2379:PHE:CZ	1:B:2392:PHE:CE1	2.57	0.92
1:A:364:ILE:HD13	1:D:2736:LEU:HD23	1.52	0.92
1:C:2336:LEU:HD22	1:C:2336:LEU:H	1.34	0.92
1:A:2398:TYR:CD1	1:A:2416:LEU:CD2	2.53	0.92
1:C:530:CYS:SG	1:C:541:LEU:HG	2.10	0.92
1:C:2219:LEU:CD2	1:C:2220:THR:HG22	1.99	0.92
1:B:538:LEU:HD21	1:B:586:GLY:HA3	1.35	0.92
1:A:2272:ASN:ND2	1:A:2367:ILE:CG2	2.33	0.92
1:D:2699:GLN:CD	1:C:2700:GLU:HG2	1.94	0.92
1:A:2406:LEU:HD23	1:A:2407:PHE:HE2	1.11	0.92
1:C:2189:TYR:O	1:C:2190:ALA:C	2.11	0.92
1:B:2272:ASN:ND2	1:B:2367:ILE:CG2	2.33	0.91
1:A:2379:PHE:CZ	1:A:2392:PHE:CE1	2.57	0.91
1:D:2189:TYR:O	1:D:2190:ALA:C	2.11	0.91
1:C:301:SER:OG	1:C:303:PHE:CE1	2.09	0.91
1:C:1979:ASN:O	1:C:1981:ASN:N	2.03	0.91
1:B:364:ILE:HD13	1:A:2736:LEU:HB3	1.52	0.91
1:B:530:CYS:SG	1:B:541:LEU:HG	2.10	0.91
1:B:2736:LEU:CA	1:C:364:ILE:HD11	2.00	0.91
1:A:2406:LEU:CD2	1:A:2407:PHE:CE2	2.52	0.91
1:D:2398:TYR:CD1	1:D:2416:LEU:CD2	2.53	0.91
1:C:2272:ASN:ND2	1:C:2367:ILE:CG2	2.33	0.91
1:B:514:ASN:HB3	1:B:517:LYS:CD	2.00	0.91
1:A:301:SER:OG	1:A:303:PHE:CG	2.07	0.91
1:A:514:ASN:HB3	1:A:517:LYS:CD	2.00	0.91
1:D:364:ILE:HG21	1:C:2737:GLY:HA2	1.51	0.91
1:D:392:HIS:ND1	1:D:397:THR:N	2.13	0.91
1:D:2272:ASN:ND2	1:D:2367:ILE:CG2	2.33	0.91
1:A:392:HIS:ND1	1:A:397:THR:N	2.13	0.91
1:A:521:LYS:HB2	1:A:521:LYS:NZ	1.86	0.91
1:D:514:ASN:HB3	1:D:517:LYS:CD	2.00	0.91
1:B:1979:ASN:O	1:B:1981:ASN:N	2.03	0.91
1:B:2736:LEU:HG	1:C:364:ILE:HD11	1.48	0.91
1:C:2187:GLU:O	1:C:2190:ALA:CB	2.19	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2266:LEU:H	1:C:2266:LEU:HD12	1.33	0.91
1:B:364:ILE:HG21	1:A:2737:GLY:HA2	1.50	0.91
1:B:2266:LEU:H	1:B:2266:LEU:HD12	1.33	0.91
1:A:526:PRO:HB2	1:A:549:PHE:CE1	2.05	0.91
1:A:2618:ARG:HG3	1:A:2628:PHE:HE1	1.12	0.91
1:D:530:CYS:SG	1:D:541:LEU:HG	2.10	0.91
1:C:2218:PHE:HB3	1:C:2254:MET:HE3	1.49	0.91
1:B:2187:GLU:O	1:B:2190:ALA:CB	2.19	0.91
1:A:1979:ASN:O	1:A:1981:ASN:N	2.03	0.91
1:A:2227:ILE:HG22	1:A:2638:MET:HE2	1.49	0.91
1:D:2187:GLU:O	1:D:2190:ALA:CB	2.19	0.91
1:B:2336:LEU:HD22	1:B:2336:LEU:H	1.34	0.91
1:A:302:LEU:O	1:A:367:ILE:HG23	1.69	0.91
1:A:2176:PRO:O	1:A:2186:LEU:HD13	1.70	0.91
1:D:2336:LEU:H	1:D:2336:LEU:HD22	1.34	0.91
1:B:392:HIS:ND1	1:B:397:THR:N	2.13	0.91
1:B:526:PRO:HB2	1:B:549:PHE:CE1	2.05	0.91
1:B:2406:LEU:CD2	1:B:2407:PHE:CE2	2.52	0.91
1:D:1979:ASN:O	1:D:1981:ASN:N	2.03	0.91
1:A:2698:LEU:HD23	1:A:2698:LEU:H	1.36	0.90
1:D:302:LEU:O	1:D:367:ILE:HG23	1.69	0.90
1:C:2379:PHE:CZ	1:C:2392:PHE:CE1	2.57	0.90
1:A:530:CYS:SG	1:A:541:LEU:HG	2.10	0.90
1:A:2187:GLU:O	1:A:2190:ALA:CB	2.19	0.90
1:A:2706:MET:HG2	1:D:2707:LYS:HE3	1.53	0.90
1:D:66:TYR:HB3	1:D:156:ASN:O	1.68	0.90
1:D:2279:ILE:HD12	1:D:2364:ASN:HB2	1.51	0.90
1:B:514:ASN:CB	1:B:517:LYS:HD3	2.02	0.90
1:B:2144:ASP:CA	1:B:2652:ASP:HB2	2.02	0.90
1:D:2549:VAL:CG1	1:D:2550:GLY:H	1.85	0.90
1:A:2404:MET:HB3	1:A:2412:PHE:CE2	2.07	0.90
1:A:2144:ASP:CA	1:A:2652:ASP:HB2	2.02	0.90
1:A:2365:LYS:HD2	1:A:2399:LEU:HB2	1.53	0.90
1:D:461:GLU:CG	1:D:525:ALA:O	2.20	0.90
1:D:2404:MET:HB3	1:D:2412:PHE:CE2	2.07	0.90
1:C:2549:VAL:CG1	1:C:2550:GLY:H	1.85	0.90
1:C:2398:TYR:CD1	1:C:2416:LEU:CD2	2.53	0.90
1:A:461:GLU:CG	1:A:525:ALA:O	2.20	0.90
1:D:301:SER:OG	1:D:303:PHE:CG	2.07	0.90
1:C:514:ASN:CB	1:C:517:LYS:HD3	2.02	0.90
1:B:2406:LEU:HD23	1:B:2407:PHE:HE2	1.11	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2625:THR:O	1:A:2627:THR:N	2.05	0.90
1:D:2625:THR:O	1:D:2627:THR:N	2.05	0.90
1:B:2365:LYS:HD2	1:B:2399:LEU:HB2	1.52	0.90
1:A:2345:ILE:HD12	1:A:2353:THR:HG21	1.54	0.90
1:D:2276:TRP:CE2	1:D:2368:PHE:CE1	2.60	0.90
1:C:2365:LYS:HD2	1:C:2399:LEU:HB2	1.52	0.90
1:A:514:ASN:CB	1:A:517:LYS:HD3	2.02	0.89
1:A:2189:TYR:O	1:A:2190:ALA:C	2.11	0.89
1:D:2365:LYS:HD2	1:D:2399:LEU:HB2	1.52	0.89
1:C:521:LYS:HB2	1:C:521:LYS:NZ	1.86	0.89
1:B:2372:PHE:CZ	1:B:2391:GLU:CG	2.56	0.89
1:B:2705:THR:HA	1:B:2708:LEU:CD2	1.83	0.89
1:A:2276:TRP:CE2	1:A:2368:PHE:CE1	2.60	0.89
1:D:521:LYS:HB2	1:D:521:LYS:NZ	1.85	0.89
1:A:2336:LEU:H	1:A:2336:LEU:HD22	1.34	0.89
1:D:2176:PRO:O	1:D:2186:LEU:HD13	1.70	0.89
1:D:2698:LEU:HD23	1:D:2698:LEU:H	1.36	0.89
1:C:2144:ASP:CA	1:C:2652:ASP:HB2	2.02	0.89
1:C:2345:ILE:HD12	1:C:2353:THR:HG21	1.55	0.89
1:A:364:ILE:HD12	1:D:2736:LEU:CB	1.71	0.89
1:C:461:GLU:CG	1:C:525:ALA:O	2.20	0.89
1:C:526:PRO:HB2	1:C:549:PHE:CE1	2.05	0.89
1:B:2404:MET:HB3	1:B:2412:PHE:CE2	2.07	0.89
1:D:521:LYS:HB2	1:D:521:LYS:HZ2	1.37	0.89
1:D:2144:ASP:CA	1:D:2652:ASP:HB2	2.02	0.89
1:C:2143:GLU:CA	1:C:2651:LYS:HB2	1.97	0.89
1:C:2361:ASN:OD1	1:C:2402:CYS:SG	2.31	0.89
1:C:2698:LEU:HD23	1:C:2698:LEU:H	1.36	0.89
1:B:2549:VAL:CG1	1:B:2550:GLY:H	1.85	0.89
1:B:2625:THR:O	1:B:2627:THR:N	2.05	0.89
1:D:2143:GLU:C	1:D:2651:LYS:HB2	1.98	0.89
1:C:2276:TRP:CE2	1:C:2368:PHE:CE1	2.60	0.89
1:C:2625:THR:O	1:C:2627:THR:N	2.05	0.89
1:B:2243:PHE:HE1	1:B:2612:PHE:CE2	1.89	0.89
1:A:2549:VAL:CG1	1:A:2550:GLY:H	1.85	0.89
1:C:2404:MET:HB3	1:C:2412:PHE:CE2	2.07	0.89
1:B:2143:GLU:CA	1:B:2651:LYS:HB2	1.97	0.89
1:B:2345:ILE:HD12	1:B:2353:THR:HG21	1.55	0.89
1:D:2372:PHE:CZ	1:D:2391:GLU:CG	2.56	0.89
1:D:72:PHE:HD1	1:D:92:LEU:HD13	1.39	0.88
1:D:2345:ILE:HD12	1:D:2353:THR:HG21	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2618:ARG:HG3	1:C:2628:PHE:HE1	1.12	0.88
1:B:2699:GLN:CG	1:A:2700:GLU:CG	2.51	0.88
1:B:2706:MET:O	1:B:2710:THR:OG1	1.92	0.88
1:A:1994:LYS:O	1:A:1996:ASN:N	2.07	0.88
1:D:2706:MET:CG	1:C:2707:LYS:HG3	2.01	0.88
1:C:2372:PHE:CZ	1:C:2391:GLU:CG	2.56	0.88
1:A:2625:THR:CG2	1:A:2626:VAL:N	2.09	0.88
1:B:2276:TRP:CE2	1:B:2368:PHE:CE1	2.60	0.88
1:D:514:ASN:CB	1:D:517:LYS:HD3	2.02	0.88
1:D:1994:LYS:O	1:D:1996:ASN:N	2.07	0.88
1:B:2361:ASN:OD1	1:B:2402:CYS:SG	2.31	0.88
1:A:2361:ASN:OD1	1:A:2402:CYS:SG	2.31	0.88
1:D:2361:ASN:OD1	1:D:2402:CYS:SG	2.31	0.88
1:B:461:GLU:CG	1:B:525:ALA:O	2.20	0.88
1:C:2143:GLU:C	1:C:2651:LYS:HB2	1.98	0.88
1:C:2276:TRP:CB	1:C:2368:PHE:CG	2.57	0.88
1:A:72:PHE:HD1	1:A:92:LEU:HD13	1.39	0.88
1:A:364:ILE:HD11	1:D:2736:LEU:CA	2.03	0.88
1:D:2243:PHE:HE1	1:D:2612:PHE:CE2	1.88	0.88
1:A:2372:PHE:CZ	1:A:2391:GLU:CG	2.56	0.88
1:B:72:PHE:HD1	1:B:92:LEU:HD13	1.38	0.88
1:A:2143:GLU:C	1:A:2651:LYS:HB2	1.98	0.88
1:D:2276:TRP:CB	1:D:2368:PHE:CG	2.57	0.88
1:B:521:LYS:HB2	1:B:521:LYS:NZ	1.86	0.87
1:A:2706:MET:O	1:A:2710:THR:OG1	1.92	0.87
1:C:2358:GLY:HA2	1:C:2413:TYR:OH	1.74	0.87
1:B:2411:PHE:CE2	1:B:2412:PHE:CE2	2.63	0.87
1:A:2276:TRP:CB	1:A:2368:PHE:CG	2.57	0.87
1:D:364:ILE:HD13	1:C:2736:LEU:HD23	1.55	0.87
1:D:538:LEU:HD21	1:D:586:GLY:HA3	1.36	0.87
1:B:394:CYS:CB	1:A:2737:GLY:CA	2.49	0.87
1:B:2276:TRP:CB	1:B:2368:PHE:CG	2.57	0.87
1:B:2706:MET:CG	1:A:2707:LYS:HG3	2.03	0.87
1:D:2411:PHE:CE2	1:D:2412:PHE:CE2	2.62	0.87
1:B:1876:THR:O	1:A:71:GLN:NE2	2.07	0.87
1:D:526:PRO:HB2	1:D:549:PHE:CE1	2.05	0.87
1:D:2706:MET:HG2	1:C:2707:LYS:HD3	1.12	0.87
1:D:2728:LYS:NZ	1:D:2728:LYS:O	2.08	0.87
1:C:2410:GLU:C	1:C:2412:PHE:N	2.32	0.87
1:B:461:GLU:CB	1:B:525:ALA:HB1	2.04	0.87
1:B:2358:GLY:HA2	1:B:2413:TYR:OH	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2358:GLY:HA2	1:D:2413:TYR:OH	1.74	0.87
1:C:72:PHE:HD1	1:C:92:LEU:HD13	1.39	0.87
1:B:2618:ARG:HG3	1:B:2628:PHE:HE1	1.12	0.87
1:D:2143:GLU:CA	1:D:2651:LYS:HB2	1.97	0.87
1:C:1994:LYS:O	1:C:1996:ASN:N	2.07	0.87
1:B:2143:GLU:C	1:B:2651:LYS:HB2	1.98	0.87
1:B:2227:ILE:HG22	1:B:2638:MET:HE2	1.49	0.87
1:A:510:MET:CB	1:A:515:ILE:HD11	2.04	0.87
1:D:510:MET:CB	1:D:515:ILE:HD11	2.04	0.87
1:B:510:MET:CB	1:B:515:ILE:HD11	2.04	0.87
1:B:1994:LYS:O	1:B:1996:ASN:N	2.07	0.86
1:B:2707:LYS:CG	1:B:2711:ASN:HD21	1.88	0.86
1:B:2728:LYS:O	1:B:2728:LYS:NZ	2.08	0.86
1:C:2243:PHE:HE1	1:C:2612:PHE:CE2	1.89	0.86
1:C:2406:LEU:HD23	1:C:2407:PHE:HE2	1.11	0.86
1:A:2219:LEU:HD21	1:A:2220:THR:HG22	1.57	0.86
1:A:2358:GLY:HA2	1:A:2413:TYR:OH	1.74	0.86
1:A:2699:GLN:CG	1:D:2700:GLU:CG	2.52	0.86
1:D:2410:GLU:C	1:D:2412:PHE:N	2.32	0.86
1:C:461:GLU:CB	1:C:525:ALA:HB1	2.04	0.86
1:B:2699:GLN:OE1	1:A:2700:GLU:HG3	1.70	0.86
1:C:520:PHE:HA	1:C:523:LEU:HD22	1.57	0.86
1:C:2411:PHE:CE2	1:C:2412:PHE:CE2	2.63	0.86
1:B:1994:LYS:O	1:B:1995:THR:C	2.18	0.86
1:B:2698:LEU:HD23	1:B:2698:LEU:H	1.36	0.86
1:A:2411:PHE:CE2	1:A:2412:PHE:CE2	2.63	0.86
1:D:364:ILE:CD1	1:C:2736:LEU:CG	2.37	0.86
1:D:461:GLU:CB	1:D:525:ALA:HB1	2.04	0.86
1:B:71:GLN:NE2	1:C:1876:THR:O	2.07	0.86
1:B:2408:VAL:HG11	1:B:2412:PHE:HD2	1.41	0.86
1:A:461:GLU:CB	1:A:525:ALA:HB1	2.04	0.86
1:D:364:ILE:CD1	1:C:2736:LEU:CA	2.52	0.86
1:D:2345:ILE:HD13	1:D:2353:THR:HB	1.58	0.86
1:C:2189:TYR:CD1	1:C:2190:ALA:N	2.43	0.86
1:C:2706:MET:O	1:C:2710:THR:OG1	1.92	0.86
1:A:2706:MET:HG2	1:D:2707:LYS:HD3	1.17	0.86
1:A:2728:LYS:NZ	1:A:2728:LYS:O	2.08	0.86
1:B:2189:TYR:CD1	1:B:2190:ALA:N	2.44	0.86
1:A:2549:VAL:HG13	1:A:2550:GLY:H	1.39	0.86
1:C:2728:LYS:O	1:C:2728:LYS:NZ	2.08	0.86
1:B:2189:TYR:O	1:B:2190:ALA:C	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2275:PHE:HZ	1:B:2367:ILE:HB	1.41	0.86
1:A:2189:TYR:CD1	1:A:2190:ALA:N	2.43	0.86
1:D:2189:TYR:CD1	1:D:2190:ALA:N	2.43	0.86
1:C:510:MET:CB	1:C:515:ILE:HD11	2.04	0.86
1:C:2451:LEU:CA	1:C:2454:LEU:HD21	2.03	0.86
1:D:2706:MET:O	1:D:2710:THR:OG1	1.92	0.86
1:C:1994:LYS:O	1:C:1995:THR:C	2.18	0.86
1:C:2345:ILE:HD13	1:C:2353:THR:HB	1.58	0.86
1:B:2219:LEU:HD21	1:B:2220:THR:HG22	1.57	0.85
1:A:529:ASP:OD2	1:A:541:LEU:HD22	1.76	0.85
1:A:2243:PHE:HE1	1:A:2612:PHE:CE2	1.89	0.85
1:C:70:LYS:HZ2	1:C:70:LYS:HB3	1.41	0.85
1:C:2275:PHE:HZ	1:C:2367:ILE:HB	1.40	0.85
1:C:2279:ILE:HD12	1:C:2364:ASN:HB2	1.51	0.85
1:C:2609:THR:C	1:C:2618:ARG:HE	1.84	0.85
1:B:2345:ILE:HD13	1:B:2353:THR:HB	1.58	0.85
1:A:2292:ALA:HB2	1:D:2453:TYR:OH	1.75	0.85
1:B:553:CYS:CB	1:B:557:TYR:HE2	1.85	0.85
1:B:2710:THR:CG2	1:A:2711:ASN:OD1	2.24	0.85
1:A:520:PHE:HA	1:A:523:LEU:HD22	1.57	0.85
1:A:2275:PHE:HZ	1:A:2367:ILE:HB	1.40	0.85
1:D:2408:VAL:HG11	1:D:2412:PHE:HD2	1.41	0.85
1:D:2706:MET:CG	1:C:2707:LYS:CG	2.44	0.85
1:C:2272:ASN:HD22	1:C:2367:ILE:CG2	1.89	0.85
1:B:461:GLU:HG3	1:B:525:ALA:CA	2.07	0.85
1:B:2275:PHE:CZ	1:B:2367:ILE:CG2	2.60	0.85
1:A:2275:PHE:CZ	1:A:2367:ILE:CG2	2.60	0.85
1:A:2345:ILE:HD13	1:A:2353:THR:HB	1.58	0.85
1:A:2410:GLU:C	1:A:2412:PHE:N	2.32	0.85
1:D:538:LEU:CD1	1:D:586:GLY:HA2	2.07	0.85
1:D:2272:ASN:HD22	1:D:2367:ILE:CG2	1.89	0.85
1:D:2406:LEU:HD23	1:D:2407:PHE:HE2	1.11	0.85
1:C:538:LEU:CD1	1:C:586:GLY:HA2	2.07	0.85
1:C:2275:PHE:O	1:C:2276:TRP:C	2.18	0.85
1:B:2410:GLU:C	1:B:2412:PHE:N	2.32	0.85
1:A:2455:PHE:HE2	1:A:2572:LEU:CD1	1.89	0.85
1:C:2219:LEU:HD21	1:C:2220:THR:HG22	1.57	0.85
1:B:2549:VAL:HG13	1:B:2550:GLY:H	1.39	0.85
1:D:2609:THR:C	1:D:2618:ARG:HE	1.84	0.85
1:C:2275:PHE:CZ	1:C:2367:ILE:CG2	2.60	0.85
1:B:2276:TRP:HB2	1:B:2368:PHE:CG	2.12	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2275:PHE:O	1:A:2276:TRP:C	2.18	0.85
1:A:2276:TRP:HB2	1:A:2368:PHE:CG	2.12	0.85
1:D:520:PHE:HA	1:D:523:LEU:HD22	1.57	0.85
1:D:2455:PHE:HE2	1:D:2572:LEU:CD1	1.89	0.85
1:B:529:ASP:OD2	1:B:541:LEU:HD22	1.76	0.85
1:A:2363:CYS:HA	1:A:2366:ILE:HD12	1.59	0.85
1:A:2549:VAL:CG1	1:A:2550:GLY:N	2.40	0.85
1:A:2551:ASP:OD1	1:A:2551:ASP:N	2.09	0.85
1:B:69:GLN:CD	1:B:69:GLN:H	1.85	0.84
1:A:2272:ASN:HD22	1:A:2367:ILE:CG2	1.89	0.84
1:A:2288:ASN:ND2	1:A:2414:SER:CA	2.10	0.84
1:D:2706:MET:HB3	1:C:2707:LYS:HD3	1.56	0.84
1:C:2455:PHE:HE2	1:C:2572:LEU:CD1	1.89	0.84
1:B:2363:CYS:HA	1:B:2366:ILE:HD12	1.59	0.84
1:B:2455:PHE:HE2	1:B:2572:LEU:CD1	1.89	0.84
1:C:461:GLU:HG3	1:C:525:ALA:CA	2.07	0.84
1:C:553:CYS:CB	1:C:557:TYR:HE2	1.85	0.84
1:B:301:SER:OG	1:B:303:PHE:CE1	2.09	0.84
1:A:538:LEU:CD1	1:A:586:GLY:HA2	2.06	0.84
1:A:2710:THR:CG2	1:D:2711:ASN:OD1	2.25	0.84
1:D:2219:LEU:HD21	1:D:2220:THR:HG22	1.57	0.84
1:D:2275:PHE:CZ	1:D:2367:ILE:CG2	2.60	0.84
1:C:2227:ILE:HG22	1:C:2638:MET:HE2	1.49	0.84
1:B:538:LEU:CD1	1:B:586:GLY:HA2	2.06	0.84
1:B:2272:ASN:HD22	1:B:2367:ILE:CG2	1.89	0.84
1:A:2408:VAL:HG11	1:A:2412:PHE:HD2	1.41	0.84
1:C:529:ASP:OD2	1:C:541:LEU:HD22	1.76	0.84
1:B:520:PHE:HA	1:B:523:LEU:HD22	1.57	0.84
1:D:529:ASP:OD2	1:D:541:LEU:HD22	1.76	0.84
1:C:2276:TRP:HB2	1:C:2368:PHE:CG	2.12	0.84
1:B:364:ILE:CD1	1:A:2736:LEU:CA	2.52	0.84
1:D:2345:ILE:HD13	1:D:2353:THR:CB	2.08	0.84
1:C:2218:PHE:CB	1:C:2254:MET:HE3	2.07	0.84
1:B:2695:LEU:HD22	1:B:2695:LEU:O	1.78	0.84
1:B:2699:GLN:HB3	1:A:2700:GLU:OE2	1.77	0.84
1:D:2279:ILE:HD12	1:D:2364:ASN:HB3	0.95	0.84
1:C:2288:ASN:HD22	1:C:2414:SER:HA	1.42	0.84
1:C:538:LEU:HD23	1:C:586:GLY:CA	2.06	0.83
1:C:2410:GLU:CD	1:C:2411:PHE:N	2.36	0.83
1:B:2736:LEU:HB3	1:C:364:ILE:HD12	0.84	0.83
1:A:538:LEU:HD23	1:A:586:GLY:CA	2.06	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:530:CYS:HB2	1:B:541:LEU:HD12	1.60	0.83
1:B:2410:GLU:CD	1:B:2411:PHE:N	2.36	0.83
1:B:2411:PHE:CE2	1:B:2412:PHE:CD2	2.66	0.83
1:B:2609:THR:C	1:B:2618:ARG:HE	1.84	0.83
1:A:70:LYS:HZ2	1:A:70:LYS:HB3	1.42	0.83
1:A:530:CYS:HB2	1:A:541:LEU:HD12	1.59	0.83
1:A:2609:THR:C	1:A:2618:ARG:HE	1.84	0.83
1:D:2275:PHE:HZ	1:D:2367:ILE:HB	1.41	0.83
1:C:2345:ILE:HD13	1:C:2353:THR:CB	2.08	0.83
1:C:2408:VAL:HG11	1:C:2412:PHE:HD2	1.41	0.83
1:B:2720:LYS:HG2	1:B:2721:ASP:N	1.93	0.83
1:A:2345:ILE:HD13	1:A:2353:THR:CB	2.08	0.83
1:A:2410:GLU:CD	1:A:2411:PHE:N	2.36	0.83
1:A:2454:LEU:H	1:A:2454:LEU:CD2	1.90	0.83
1:A:2699:GLN:HB3	1:D:2700:GLU:OE2	1.79	0.83
1:D:461:GLU:HG3	1:D:525:ALA:CA	2.07	0.83
1:C:530:CYS:HB2	1:C:541:LEU:HD12	1.60	0.83
1:C:2411:PHE:CE2	1:C:2412:PHE:CD2	2.66	0.83
1:B:2736:LEU:HD23	1:C:364:ILE:HD13	1.58	0.83
1:A:461:GLU:HG3	1:A:525:ALA:CA	2.07	0.83
1:D:2250:LEU:O	1:D:2250:LEU:HD13	1.78	0.83
1:B:538:LEU:HG	1:B:586:GLY:CA	2.01	0.83
1:B:2401:ILE:CD1	1:B:2416:LEU:HB2	2.09	0.83
1:B:2737:GLY:HA2	1:C:364:ILE:HG21	1.59	0.83
1:D:538:LEU:HD23	1:D:586:GLY:CA	2.06	0.83
1:C:2720:LYS:HG2	1:C:2721:ASP:N	1.93	0.83
1:A:553:CYS:CB	1:A:557:TYR:HE2	1.85	0.83
1:D:1803:GLY:O	1:D:1805:SER:N	2.12	0.83
1:D:2707:LYS:CG	1:D:2711:ASN:HD21	1.88	0.83
1:C:2275:PHE:CD1	1:C:2276:TRP:N	2.44	0.83
1:A:76:ALA:O	1:A:78:PRO:HD3	1.79	0.83
1:D:2363:CYS:HA	1:D:2366:ILE:HD12	1.59	0.83
1:C:2250:LEU:HD13	1:C:2250:LEU:O	1.78	0.83
1:C:2454:LEU:H	1:C:2454:LEU:CD2	1.90	0.83
1:B:2345:ILE:HD13	1:B:2353:THR:CB	2.08	0.83
1:A:521:LYS:HB2	1:A:521:LYS:HZ2	1.41	0.83
1:A:1803:GLY:O	1:A:1805:SER:N	2.12	0.83
1:A:2401:ILE:CD1	1:A:2416:LEU:HB2	2.09	0.83
1:A:2695:LEU:HD22	1:A:2695:LEU:O	1.78	0.83
1:D:2276:TRP:HB2	1:D:2368:PHE:CG	2.12	0.83
1:D:2618:ARG:HD3	1:D:2628:PHE:HZ	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2695:LEU:HD22	1:C:2695:LEU:O	1.78	0.83
1:B:1613:ASP:O	1:B:1617:PRO:N	2.12	0.83
1:A:69:GLN:H	1:A:69:GLN:CD	1.85	0.83
1:D:2706:MET:HG2	1:C:2707:LYS:HG3	1.57	0.83
1:C:76:ALA:O	1:C:78:PRO:HD3	1.79	0.83
1:C:2363:CYS:HA	1:C:2366:ILE:HD12	1.59	0.83
1:B:538:LEU:CD2	1:B:586:GLY:O	2.27	0.82
1:A:2400:LEU:HD23	1:A:2401:ILE:N	1.94	0.82
1:A:2706:MET:CB	1:D:2707:LYS:CD	2.52	0.82
1:D:2410:GLU:CD	1:D:2411:PHE:N	2.36	0.82
1:D:2411:PHE:CE2	1:D:2412:PHE:CD2	2.66	0.82
1:C:2401:ILE:CD1	1:C:2416:LEU:HB2	2.09	0.82
1:B:2275:PHE:CD1	1:B:2276:TRP:N	2.44	0.82
1:A:394:CYS:CB	1:D:2737:GLY:CA	2.53	0.82
1:D:76:ALA:O	1:D:78:PRO:HD3	1.79	0.82
1:D:1613:ASP:O	1:D:1617:PRO:N	2.12	0.82
1:B:2400:LEU:HD23	1:B:2401:ILE:N	1.94	0.82
1:B:2451:LEU:CA	1:B:2454:LEU:HD21	2.03	0.82
1:B:2707:LYS:CG	1:C:2706:MET:CG	2.53	0.82
1:B:2736:LEU:CB	1:C:364:ILE:HD12	1.75	0.82
1:A:2411:PHE:CE2	1:A:2412:PHE:CD2	2.66	0.82
1:D:538:LEU:HD23	1:D:586:GLY:HA3	1.60	0.82
1:D:2695:LEU:HD22	1:D:2695:LEU:O	1.78	0.82
1:A:2250:LEU:O	1:A:2250:LEU:HD13	1.78	0.82
1:C:538:LEU:CD2	1:C:586:GLY:O	2.27	0.82
1:C:1613:ASP:O	1:C:1617:PRO:N	2.12	0.82
1:A:2699:GLN:OE1	1:D:2700:GLU:CA	2.27	0.82
1:D:530:CYS:HB2	1:D:541:LEU:HD12	1.60	0.82
1:D:2699:GLN:CG	1:C:2700:GLU:CG	2.57	0.82
1:C:2707:LYS:CG	1:C:2711:ASN:HD21	1.88	0.82
1:B:2275:PHE:HZ	1:B:2367:ILE:CG2	1.92	0.82
1:A:1613:ASP:O	1:A:1617:PRO:N	2.12	0.82
1:D:69:GLN:CD	1:D:69:GLN:H	1.85	0.82
1:D:553:CYS:CB	1:D:557:TYR:HE2	1.85	0.82
1:B:2250:LEU:O	1:B:2250:LEU:HD13	1.78	0.82
1:B:2737:GLY:HA3	1:C:394:CYS:HB3	1.54	0.82
1:A:2275:PHE:HZ	1:A:2367:ILE:CG2	1.92	0.82
1:A:2720:LYS:HG2	1:A:2721:ASP:N	1.93	0.82
1:C:367:ILE:HB	1:C:393:LEU:HD22	1.60	0.82
1:C:2458:VAL:HG13	1:C:2459:GLY:N	1.95	0.82
1:B:2218:PHE:CB	1:B:2254:MET:HE3	2.07	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1994:LYS:O	1:A:1995:THR:C	2.18	0.82
1:D:367:ILE:HB	1:D:393:LEU:HD22	1.60	0.82
1:D:2454:LEU:H	1:D:2454:LEU:CD2	1.90	0.82
1:C:2400:LEU:HD23	1:C:2401:ILE:N	1.94	0.82
1:B:394:CYS:HB3	1:A:2737:GLY:HA2	1.58	0.82
1:B:2737:GLY:CA	1:C:394:CYS:CB	2.52	0.82
1:B:76:ALA:O	1:B:78:PRO:HD3	1.79	0.82
1:A:2699:GLN:OE1	1:D:2700:GLU:HA	1.77	0.82
1:D:2400:LEU:HD23	1:D:2401:ILE:N	1.94	0.82
1:B:529:ASP:OD2	1:B:541:LEU:CD2	2.28	0.81
1:D:538:LEU:CD2	1:D:586:GLY:O	2.27	0.81
1:D:2401:ILE:CD1	1:D:2416:LEU:HB2	2.09	0.81
1:B:364:ILE:CG1	1:A:2736:LEU:C	2.54	0.81
1:A:367:ILE:HB	1:A:393:LEU:HD22	1.60	0.81
1:D:1994:LYS:O	1:D:1995:THR:C	2.18	0.81
1:C:1803:GLY:O	1:C:1805:SER:N	2.12	0.81
1:C:2275:PHE:HZ	1:C:2367:ILE:CG2	1.92	0.81
1:B:538:LEU:HD23	1:B:586:GLY:HA3	1.60	0.81
1:B:2345:ILE:HB	1:B:2353:THR:HG22	0.83	0.81
1:A:2227:ILE:CD1	1:A:2246:ARG:CG	2.31	0.81
1:D:64:ASN:OD1	1:D:64:ASN:N	2.14	0.81
1:D:2232:GLU:HB3	1:D:2242:ASP:CG	2.05	0.81
1:D:2275:PHE:HZ	1:D:2367:ILE:CG2	1.92	0.81
1:D:2458:VAL:HG13	1:D:2459:GLY:N	1.95	0.81
1:C:66:TYR:HA	1:C:156:ASN:CG	2.05	0.81
1:D:2275:PHE:CD1	1:D:2276:TRP:N	2.44	0.81
1:D:2288:ASN:HD22	1:D:2414:SER:HA	1.42	0.81
1:D:2345:ILE:O	1:D:2353:THR:CG2	2.28	0.81
1:A:2345:ILE:O	1:A:2353:THR:CG2	2.28	0.81
1:D:2699:GLN:OE1	1:C:2700:GLU:HG3	1.77	0.81
1:D:2720:LYS:HG2	1:D:2721:ASP:N	1.93	0.81
1:C:538:LEU:HD23	1:C:586:GLY:HA3	1.60	0.81
1:C:2694:GLU:O	1:C:2698:LEU:CD2	2.29	0.81
1:B:64:ASN:OD1	1:B:64:ASN:N	2.14	0.81
1:B:2707:LYS:HG3	1:C:2706:MET:CG	2.11	0.81
1:A:1876:THR:O	1:D:71:GLN:NE2	2.12	0.81
1:A:2227:ILE:CG2	1:A:2638:MET:HE1	2.09	0.81
1:C:2345:ILE:O	1:C:2353:THR:CG2	2.28	0.81
1:B:364:ILE:HD13	1:A:2736:LEU:HD23	1.61	0.81
1:A:2279:ILE:HD12	1:A:2364:ASN:HB3	0.95	0.81
1:A:2458:VAL:HG13	1:A:2459:GLY:N	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2694:GLU:O	1:D:2698:LEU:CD2	2.29	0.81
1:C:529:ASP:OD2	1:C:541:LEU:CD2	2.28	0.81
1:B:2288:ASN:ND2	1:B:2414:SER:CA	2.10	0.81
1:B:2737:GLY:HA2	1:C:394:CYS:HB3	1.60	0.81
1:A:529:ASP:OD2	1:A:541:LEU:CD2	2.28	0.81
1:A:2707:LYS:CG	1:A:2711:ASN:HD21	1.88	0.81
1:D:72:PHE:HD1	1:D:92:LEU:CD1	1.94	0.81
1:B:364:ILE:HD12	1:A:2736:LEU:HB3	0.83	0.81
1:B:2707:LYS:HE3	1:C:2706:MET:HG2	1.63	0.81
1:A:72:PHE:HD1	1:A:92:LEU:CD1	1.94	0.81
1:A:2243:PHE:CZ	1:A:2612:PHE:HZ	1.98	0.81
1:D:2275:PHE:O	1:D:2276:TRP:C	2.18	0.81
1:C:1404:ASP:O	1:C:1408:ARG:N	2.14	0.81
1:B:1803:GLY:O	1:B:1805:SER:N	2.12	0.81
1:B:2551:ASP:OD1	1:B:2551:ASP:N	2.09	0.81
1:B:2700:GLU:HA	1:C:2699:GLN:OE1	1.81	0.81
1:B:2711:ASN:OD1	1:C:2710:THR:CG2	2.29	0.81
1:D:529:ASP:OD2	1:D:541:LEU:CD2	2.28	0.81
1:C:64:ASN:OD1	1:C:64:ASN:N	2.14	0.81
1:C:72:PHE:HD1	1:C:92:LEU:CD1	1.94	0.81
1:C:2345:ILE:HB	1:C:2353:THR:HG22	0.83	0.81
1:B:2345:ILE:O	1:B:2353:THR:CG2	2.28	0.80
1:A:2345:ILE:HB	1:A:2353:THR:HG22	0.83	0.80
1:A:2694:GLU:O	1:A:2698:LEU:CD2	2.29	0.80
1:B:66:TYR:HA	1:B:156:ASN:CG	2.05	0.80
1:C:557:TYR:CD1	1:C:590:LEU:CA	2.65	0.80
1:B:72:PHE:HD1	1:B:92:LEU:CD1	1.94	0.80
1:B:2276:TRP:HB2	1:B:2368:PHE:HB2	0.82	0.80
1:B:2699:GLN:OE1	1:A:2700:GLU:CA	2.30	0.80
1:A:538:LEU:HD23	1:A:586:GLY:HA3	1.61	0.80
1:C:2232:GLU:HB3	1:C:2242:ASP:CG	2.05	0.80
1:B:1404:ASP:O	1:B:1408:ARG:N	2.14	0.80
1:B:2275:PHE:O	1:B:2276:TRP:C	2.18	0.80
1:A:538:LEU:CD2	1:A:586:GLY:C	2.31	0.80
1:A:2232:GLU:HB3	1:A:2242:ASP:CG	2.05	0.80
1:D:2345:ILE:C	1:D:2353:THR:HG21	2.07	0.80
1:D:2350:LEU:CA	1:D:2352:PRO:HD2	2.12	0.80
1:D:2609:THR:HB	1:D:2618:ARG:NH1	1.87	0.80
1:D:2622:ASP:OD1	1:D:2631:HIS:CE1	2.35	0.80
1:C:1625:VAL:O	1:C:1629:VAL:N	2.14	0.80
1:C:2279:ILE:HD12	1:C:2364:ASN:HB3	0.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1625:VAL:O	1:B:1629:VAL:N	2.14	0.80
1:B:2288:ASN:OD1	1:B:2413:TYR:C	2.25	0.80
1:A:538:LEU:CD2	1:A:586:GLY:O	2.27	0.80
1:A:2349:GLY:C	1:A:2352:PRO:CG	2.55	0.80
1:D:66:TYR:HA	1:D:156:ASN:CG	2.06	0.80
1:B:2694:GLU:O	1:B:2698:LEU:CD2	2.29	0.80
1:D:1625:VAL:O	1:D:1629:VAL:N	2.14	0.80
1:C:2411:PHE:CZ	1:C:2412:PHE:CE2	2.70	0.80
1:B:367:ILE:HB	1:B:393:LEU:HD22	1.60	0.80
1:B:2345:ILE:C	1:B:2353:THR:HG21	2.07	0.80
1:B:2349:GLY:C	1:B:2352:PRO:CG	2.55	0.80
1:A:364:ILE:CG2	1:A:393:LEU:CG	2.60	0.80
1:A:2276:TRP:HB2	1:A:2368:PHE:HB2	0.82	0.80
1:D:364:ILE:CG2	1:D:393:LEU:CG	2.60	0.80
1:D:2288:ASN:OD1	1:D:2413:TYR:C	2.24	0.80
1:C:2276:TRP:HB2	1:C:2368:PHE:HB2	0.82	0.80
1:C:2372:PHE:CE1	1:C:2391:GLU:CG	2.64	0.80
1:C:2415:LEU:O	1:C:2415:LEU:HD23	1.82	0.80
1:A:1404:ASP:O	1:A:1408:ARG:N	2.14	0.80
1:A:2275:PHE:CD1	1:A:2276:TRP:N	2.44	0.80
1:A:2345:ILE:C	1:A:2353:THR:HG21	2.07	0.80
1:A:2416:LEU:O	1:A:2416:LEU:HD13	1.82	0.80
1:A:2622:ASP:OD1	1:A:2631:HIS:CE1	2.35	0.80
1:A:2706:MET:CG	1:D:2707:LYS:CE	2.55	0.80
1:C:2716:LEU:HD12	1:C:2716:LEU:O	1.82	0.80
1:B:2411:PHE:CZ	1:B:2412:PHE:CE2	2.70	0.80
1:B:2458:VAL:HG13	1:B:2459:GLY:N	1.95	0.80
1:B:2706:MET:HG2	1:A:2707:LYS:HG3	1.62	0.80
1:A:557:TYR:CD1	1:A:590:LEU:CA	2.65	0.80
1:D:557:TYR:CD1	1:D:590:LEU:CA	2.65	0.80
1:D:2549:VAL:HG13	1:D:2550:GLY:H	1.38	0.80
1:C:2350:LEU:CA	1:C:2352:PRO:HD2	2.12	0.80
1:B:557:TYR:CD1	1:B:590:LEU:CA	2.65	0.80
1:D:2416:LEU:O	1:D:2416:LEU:HD13	1.82	0.80
1:B:70:LYS:NZ	1:B:70:LYS:HB3	1.98	0.79
1:A:2218:PHE:CB	1:A:2254:MET:HE3	2.07	0.79
1:A:2716:LEU:HD12	1:A:2716:LEU:O	1.82	0.79
1:D:394:CYS:HB2	1:C:2737:GLY:HA3	1.63	0.79
1:D:1404:ASP:O	1:D:1408:ARG:N	2.14	0.79
1:D:2372:PHE:CE1	1:D:2391:GLU:CG	2.64	0.79
1:C:2288:ASN:OD1	1:C:2413:TYR:C	2.24	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2288:ASN:OD1	1:A:2413:TYR:C	2.24	0.79
1:D:2716:LEU:O	1:D:2716:LEU:HD12	1.82	0.79
1:B:364:ILE:CG2	1:B:393:LEU:CD2	2.61	0.79
1:A:66:TYR:HA	1:A:156:ASN:CG	2.05	0.79
1:A:364:ILE:CG2	1:A:393:LEU:CD2	2.61	0.79
1:A:2411:PHE:CZ	1:A:2412:PHE:CE2	2.70	0.79
1:B:364:ILE:CD1	1:A:2736:LEU:C	2.56	0.79
1:A:2372:PHE:CE1	1:A:2391:GLU:CG	2.64	0.79
1:D:2284:ALA:CB	1:D:2416:LEU:HD12	2.13	0.79
1:D:2415:LEU:HD23	1:D:2415:LEU:O	1.82	0.79
1:B:520:PHE:HZ	1:B:576:LYS:HZ3	0.84	0.79
1:B:2699:GLN:OE1	1:A:2700:GLU:HA	1.81	0.79
1:A:391:ARG:HG2	1:A:396:ASN:HA	1.64	0.79
1:D:2411:PHE:CZ	1:D:2412:PHE:CE2	2.70	0.79
1:C:391:ARG:HG2	1:C:396:ASN:HA	1.64	0.79
1:C:2345:ILE:C	1:C:2353:THR:HG21	2.07	0.79
1:C:2416:LEU:O	1:C:2416:LEU:HD13	1.82	0.79
1:B:2700:GLU:CG	1:C:2699:GLN:CG	2.57	0.79
1:A:1625:VAL:O	1:A:1629:VAL:N	2.14	0.79
1:D:2218:PHE:CB	1:D:2254:MET:HE3	2.07	0.79
1:C:2549:VAL:HG13	1:C:2550:GLY:H	1.39	0.79
1:C:2622:ASP:OD1	1:C:2631:HIS:CE1	2.35	0.79
1:B:538:LEU:HD23	1:B:586:GLY:CA	2.06	0.79
1:A:72:PHE:CD1	1:A:92:LEU:CD1	2.66	0.79
1:D:2345:ILE:HB	1:D:2353:THR:HG22	0.83	0.79
1:D:2349:GLY:C	1:D:2352:PRO:CG	2.55	0.79
1:D:2625:THR:HG23	1:D:2626:VAL:H	1.48	0.79
1:C:70:LYS:HB3	1:C:70:LYS:NZ	1.98	0.79
1:B:2458:VAL:CG1	1:B:2459:GLY:N	2.46	0.79
1:B:2706:MET:HG2	1:A:2707:LYS:HE3	1.64	0.79
1:A:2276:TRP:CG	1:A:2368:PHE:CG	2.71	0.79
1:D:2276:TRP:HB2	1:D:2368:PHE:HB2	0.82	0.79
1:C:72:PHE:CD1	1:C:92:LEU:CD1	2.66	0.79
1:B:2275:PHE:HD1	1:B:2276:TRP:H	1.30	0.79
1:B:2416:LEU:O	1:B:2416:LEU:HD13	1.82	0.79
1:B:2450:ILE:HG21	1:C:2417:LEU:HD11	1.64	0.79
1:D:72:PHE:CD1	1:D:92:LEU:CD1	2.66	0.79
1:C:364:ILE:CG2	1:C:393:LEU:CG	2.60	0.79
1:C:2349:GLY:C	1:C:2352:PRO:CG	2.55	0.79
1:B:364:ILE:CG2	1:B:393:LEU:CG	2.60	0.79
1:A:64:ASN:OD1	1:A:64:ASN:N	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2350:LEU:CA	1:A:2352:PRO:HD2	2.12	0.79
1:D:2276:TRP:HH2	1:D:2395:HIS:CG	2.01	0.79
1:C:69:GLN:H	1:C:69:GLN:CD	1.85	0.79
1:B:2232:GLU:HB3	1:B:2242:ASP:CG	2.05	0.78
1:D:70:LYS:NZ	1:D:70:LYS:HB3	1.98	0.78
1:D:2405:GLY:CA	1:D:2412:PHE:HB2	2.14	0.78
1:C:520:PHE:HZ	1:C:576:LYS:HZ3	0.80	0.78
1:C:2284:ALA:CB	1:C:2416:LEU:HD12	2.13	0.78
1:B:72:PHE:CD1	1:B:92:LEU:CD1	2.66	0.78
1:A:2284:ALA:CB	1:A:2416:LEU:HD12	2.13	0.78
1:A:2405:GLY:CA	1:A:2412:PHE:HB2	2.14	0.78
1:C:2231:THR:HG23	1:C:2232:GLU:C	2.08	0.78
1:B:2231:THR:HG23	1:B:2232:GLU:C	2.08	0.78
1:B:2284:ALA:CB	1:B:2416:LEU:HD12	2.13	0.78
1:B:2622:ASP:OD1	1:B:2631:HIS:CE1	2.35	0.78
1:B:2716:LEU:HD12	1:B:2716:LEU:O	1.82	0.78
1:C:2276:TRP:CG	1:C:2368:PHE:CG	2.71	0.78
1:A:2458:VAL:CG1	1:A:2459:GLY:N	2.46	0.78
1:D:2551:ASP:OD1	1:D:2551:ASP:N	2.09	0.78
1:C:299:TRP:CE3	1:C:381:LEU:HD23	2.19	0.78
1:B:2215:ILE:O	1:B:2254:MET:HE3	1.84	0.78
1:D:364:ILE:CG2	1:D:393:LEU:CD2	2.61	0.78
1:C:2458:VAL:CG1	1:C:2459:GLY:N	2.46	0.78
1:B:364:ILE:CD1	1:A:2736:LEU:CG	2.42	0.78
1:B:2276:TRP:CG	1:B:2368:PHE:CG	2.71	0.78
1:A:70:LYS:HB3	1:A:70:LYS:NZ	1.98	0.78
1:A:364:ILE:HD12	1:D:2736:LEU:HB3	0.79	0.78
1:A:2189:TYR:O	1:A:2191:LYS:N	2.17	0.78
1:A:2288:ASN:HD22	1:A:2414:SER:HA	1.42	0.78
1:A:2625:THR:HG23	1:A:2626:VAL:N	1.99	0.78
1:A:2695:LEU:CD2	1:A:2698:LEU:HD12	2.12	0.78
1:C:364:ILE:CG2	1:C:393:LEU:CD2	2.61	0.78
1:B:299:TRP:CE3	1:B:381:LEU:HD23	2.19	0.78
1:B:2405:GLY:CA	1:B:2412:PHE:HB2	2.13	0.78
1:B:2415:LEU:HD23	1:B:2415:LEU:O	1.82	0.78
1:A:2417:LEU:HD11	1:D:2450:ILE:HG21	1.64	0.78
1:D:364:ILE:CG1	1:C:2736:LEU:O	2.28	0.78
1:D:2189:TYR:O	1:D:2191:LYS:N	2.17	0.78
1:C:2276:TRP:HH2	1:C:2395:HIS:CG	2.01	0.78
1:C:2625:THR:HG23	1:C:2626:VAL:N	1.99	0.78
1:B:2622:ASP:OD2	1:B:2631:HIS:HE1	1.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2275:PHE:HD1	1:A:2276:TRP:H	1.30	0.78
1:D:2227:ILE:HD12	1:D:2246:ARG:HG2	1.63	0.78
1:D:2276:TRP:CG	1:D:2368:PHE:CG	2.71	0.78
1:C:2622:ASP:OD2	1:C:2631:HIS:HE1	1.31	0.78
1:B:391:ARG:HG2	1:B:396:ASN:HA	1.64	0.78
1:B:2350:LEU:CA	1:B:2352:PRO:HD2	2.12	0.78
1:B:2453:TYR:HH	1:C:2292:ALA:HB2	1.46	0.78
1:A:2215:ILE:O	1:A:2254:MET:HE3	1.84	0.78
1:B:364:ILE:HG22	1:B:393:LEU:CG	2.14	0.78
1:A:394:CYS:HB3	1:D:2737:GLY:HA3	1.59	0.78
1:A:2415:LEU:HD23	1:A:2415:LEU:O	1.82	0.78
1:A:2699:GLN:OE1	1:D:2700:GLU:HG2	1.80	0.78
1:D:391:ARG:HG2	1:D:396:ASN:HA	1.64	0.78
1:D:595:ILE:O	1:D:599:LEU:N	2.17	0.78
1:D:2227:ILE:CD1	1:D:2246:ARG:CG	2.31	0.78
1:D:2275:PHE:HZ	1:D:2367:ILE:CB	1.97	0.78
1:C:2275:PHE:HD1	1:C:2276:TRP:H	1.31	0.78
1:C:521:LYS:HB2	1:C:521:LYS:HZ2	1.46	0.77
1:C:2243:PHE:CZ	1:C:2612:PHE:HZ	1.98	0.77
1:C:2405:GLY:CA	1:C:2412:PHE:HB2	2.13	0.77
1:A:538:LEU:HG	1:A:586:GLY:CA	2.00	0.77
1:A:2231:THR:HG23	1:A:2232:GLU:C	2.08	0.77
1:D:364:ILE:CG1	1:C:2736:LEU:C	2.57	0.77
1:D:2458:VAL:CG1	1:D:2459:GLY:N	2.46	0.77
1:C:2275:PHE:HZ	1:C:2367:ILE:CB	1.97	0.77
1:A:522:LEU:O	1:A:522:LEU:HD12	1.85	0.77
1:D:2231:THR:HG23	1:D:2232:GLU:C	2.08	0.77
1:D:2699:GLN:OE1	1:C:2700:GLU:HA	1.85	0.77
1:A:364:ILE:CD1	1:D:2736:LEU:CG	2.37	0.77
1:A:2609:THR:HB	1:A:2618:ARG:NH1	1.87	0.77
1:D:364:ILE:HD12	1:C:2736:LEU:HB3	0.78	0.77
1:D:461:GLU:OE2	1:D:528:THR:OG1	2.03	0.77
1:D:522:LEU:O	1:D:522:LEU:HD12	1.85	0.77
1:B:364:ILE:CG1	1:A:2736:LEU:O	2.28	0.77
1:B:595:ILE:O	1:B:599:LEU:N	2.17	0.77
1:A:364:ILE:HG22	1:A:393:LEU:CG	2.14	0.77
1:A:595:ILE:O	1:A:599:LEU:N	2.17	0.77
1:D:299:TRP:CE3	1:D:381:LEU:HD23	2.19	0.77
1:C:522:LEU:HD12	1:C:522:LEU:O	1.85	0.77
1:B:2549:VAL:CG1	1:B:2573:PHE:CD2	2.65	0.77
1:B:2736:LEU:CA	1:C:364:ILE:CD1	2.60	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:299:TRP:CE3	1:A:381:LEU:HD23	2.19	0.77
1:D:2710:THR:CG2	1:C:2711:ASN:OD1	2.31	0.77
1:A:364:ILE:CD1	1:D:2736:LEU:CA	2.62	0.77
1:C:2189:TYR:O	1:C:2191:LYS:N	2.17	0.77
1:C:2551:ASP:OD1	1:C:2551:ASP:N	2.09	0.77
1:A:2275:PHE:HZ	1:A:2367:ILE:CB	1.97	0.77
1:D:2699:GLN:HB3	1:C:2700:GLU:OE2	1.84	0.77
1:B:364:ILE:HD12	1:A:2736:LEU:CB	1.72	0.77
1:B:522:LEU:HD12	1:B:522:LEU:O	1.85	0.77
1:B:2625:THR:HG23	1:B:2626:VAL:N	1.99	0.77
1:D:364:ILE:CD1	1:C:2736:LEU:C	2.57	0.77
1:B:2700:GLU:CA	1:C:2699:GLN:OE1	2.32	0.77
1:B:584:GLN:O	1:B:585:ILE:CG1	2.34	0.76
1:A:510:MET:HG2	1:A:515:ILE:CD1	2.11	0.76
1:C:2410:GLU:CD	1:C:2411:PHE:H	1.93	0.76
1:B:2189:TYR:O	1:B:2191:LYS:N	2.17	0.76
1:A:584:GLN:O	1:A:585:ILE:CG1	2.34	0.76
1:D:520:PHE:HZ	1:D:576:LYS:HZ3	0.78	0.76
1:D:2410:GLU:CD	1:D:2411:PHE:H	1.93	0.76
1:D:364:ILE:HG22	1:D:393:LEU:CG	2.14	0.76
1:A:2227:ILE:HD12	1:A:2246:ARG:HG2	1.63	0.76
1:D:70:LYS:HB3	1:D:70:LYS:HZ2	1.49	0.76
1:D:584:GLN:O	1:D:585:ILE:CG1	2.34	0.76
1:D:1662:GLN:O	1:D:1666:GLU:N	2.19	0.76
1:D:2715:GLN:HA	1:D:2715:GLN:NE2	2.00	0.76
1:C:2189:TYR:O	1:C:2192:HIS:N	2.18	0.76
1:C:2215:ILE:O	1:C:2254:MET:HE3	1.84	0.76
1:C:2618:ARG:HD3	1:C:2628:PHE:HZ	1.42	0.76
1:C:2715:GLN:NE2	1:C:2715:GLN:HA	2.00	0.76
1:B:1631:HIS:O	1:B:1635:LEU:N	2.19	0.76
1:B:2243:PHE:CZ	1:B:2612:PHE:HZ	1.98	0.76
1:A:510:MET:HG3	1:A:515:ILE:HD11	0.76	0.76
1:C:538:LEU:HG	1:C:586:GLY:CA	2.00	0.76
1:C:2609:THR:HB	1:C:2618:ARG:NH1	1.87	0.76
1:B:2227:ILE:HD12	1:B:2246:ARG:HG2	1.63	0.76
1:B:2275:PHE:HZ	1:B:2367:ILE:CB	1.97	0.76
1:A:2451:LEU:CA	1:A:2454:LEU:HD21	2.03	0.76
1:D:510:MET:HG2	1:D:515:ILE:CD1	2.12	0.76
1:C:2240:ILE:HD13	1:C:2672:LEU:HD12	1.67	0.76
1:C:2625:THR:HG23	1:C:2626:VAL:H	1.48	0.76
1:A:394:CYS:HB3	1:D:2737:GLY:HA2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2285:VAL:HG12	1:A:2417:LEU:CD2	2.16	0.76
1:D:2:SER:OG	1:D:2719:LEU:HD22	1.86	0.76
1:C:461:GLU:OE2	1:C:528:THR:OG1	2.03	0.76
1:C:510:MET:CA	1:C:515:ILE:HD11	2.16	0.76
1:B:461:GLU:OE2	1:B:528:THR:OG1	2.03	0.76
1:A:63:MET:C	1:A:64:ASN:CG	2.54	0.76
1:A:1662:GLN:O	1:A:1666:GLU:N	2.19	0.76
1:B:510:MET:HG3	1:B:515:ILE:HD11	0.76	0.75
1:B:523:LEU:HD21	1:B:556:CYS:SG	2.26	0.75
1:B:2411:PHE:CZ	1:B:2412:PHE:CZ	2.74	0.75
1:A:2:SER:OG	1:A:2719:LEU:HD22	1.86	0.75
1:D:523:LEU:HD21	1:D:556:CYS:SG	2.26	0.75
1:D:2189:TYR:O	1:D:2192:HIS:N	2.18	0.75
1:D:2266:LEU:HD12	1:D:2266:LEU:N	2.01	0.75
1:D:2285:VAL:HG12	1:D:2417:LEU:CD2	2.16	0.75
1:B:2281:PHE:CA	1:B:2420:LEU:CD2	2.41	0.75
1:A:523:LEU:HD21	1:A:556:CYS:SG	2.26	0.75
1:A:2189:TYR:O	1:A:2192:HIS:N	2.19	0.75
1:D:510:MET:HG3	1:D:515:ILE:HD11	0.76	0.75
1:D:1631:HIS:O	1:D:1635:LEU:N	2.19	0.75
1:D:2411:PHE:CZ	1:D:2412:PHE:CZ	2.74	0.75
1:C:510:MET:HG3	1:C:515:ILE:HD11	0.76	0.75
1:C:523:LEU:HD21	1:C:556:CYS:SG	2.26	0.75
1:C:1631:HIS:O	1:C:1635:LEU:N	2.19	0.75
1:C:2281:PHE:CA	1:C:2420:LEU:CD2	2.40	0.75
1:B:2715:GLN:HA	1:B:2715:GLN:NE2	2.00	0.75
1:A:1631:HIS:O	1:A:1635:LEU:N	2.19	0.75
1:D:2704:SER:O	1:D:2708:LEU:CD1	2.35	0.75
1:B:510:MET:CA	1:B:515:ILE:HD11	2.16	0.75
1:B:1662:GLN:O	1:B:1666:GLU:N	2.19	0.75
1:B:2372:PHE:CE1	1:B:2391:GLU:CG	2.64	0.75
1:A:510:MET:O	1:A:516:LEU:CD2	2.31	0.75
1:A:1345:TYR:C	1:A:1349:ALA:CA	2.60	0.75
1:A:2266:LEU:HA	1:A:2269:CYS:SG	2.27	0.75
1:A:2396:LEU:HG	1:A:2397:LEU:HD22	1.69	0.75
1:D:2176:PRO:O	1:D:2186:LEU:CD2	2.35	0.75
1:D:2625:THR:HG23	1:D:2626:VAL:N	1.99	0.75
1:C:63:MET:C	1:C:64:ASN:CG	2.54	0.75
1:C:2266:LEU:HD12	1:C:2266:LEU:N	2.01	0.75
1:B:2189:TYR:O	1:B:2192:HIS:N	2.19	0.75
1:B:2454:LEU:H	1:B:2454:LEU:CD2	1.90	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2706:MET:CG	1:D:2707:LYS:HG3	2.15	0.75
1:D:63:MET:C	1:D:64:ASN:CG	2.54	0.75
1:D:538:LEU:HG	1:D:586:GLY:CA	2.00	0.75
1:A:2276:TRP:HH2	1:A:2395:HIS:CG	2.01	0.75
1:A:2715:GLN:HA	1:A:2715:GLN:NE2	2.00	0.75
1:D:2266:LEU:HA	1:D:2269:CYS:SG	2.27	0.75
1:B:2273:MET:HE3	1:B:2274:SER:HA	1.69	0.75
1:B:2411:PHE:HZ	1:B:2412:PHE:CZ	2.05	0.75
1:B:2695:LEU:CD2	1:B:2698:LEU:HD12	2.12	0.75
1:A:510:MET:CA	1:A:515:ILE:HD11	2.16	0.75
1:A:516:LEU:H	1:A:516:LEU:CD2	1.94	0.75
1:C:595:ILE:O	1:C:599:LEU:N	2.17	0.75
1:C:1345:TYR:C	1:C:1349:ALA:CA	2.60	0.75
1:C:1662:GLN:O	1:C:1666:GLU:N	2.19	0.75
1:C:2266:LEU:HA	1:C:2269:CYS:SG	2.27	0.75
1:C:584:GLN:O	1:C:585:ILE:CG1	2.34	0.75
1:B:2:SER:OG	1:B:2719:LEU:HD22	1.86	0.74
1:B:530:CYS:SG	1:B:536:LEU:O	2.45	0.74
1:B:2700:GLU:OE2	1:C:2699:GLN:HB3	1.84	0.74
1:D:2273:MET:HE3	1:D:2274:SER:HA	1.69	0.74
1:D:2396:LEU:HG	1:D:2397:LEU:HD22	1.69	0.74
1:C:510:MET:O	1:C:516:LEU:CD2	2.31	0.74
1:C:2273:MET:HE3	1:C:2274:SER:HA	1.69	0.74
1:C:2396:LEU:HG	1:C:2397:LEU:HD22	1.69	0.74
1:B:521:LYS:HB2	1:B:521:LYS:HZ2	1.48	0.74
1:B:1345:TYR:C	1:B:1349:ALA:CA	2.60	0.74
1:B:2396:LEU:HG	1:B:2397:LEU:HD22	1.69	0.74
1:D:530:CYS:N	1:D:541:LEU:HD11	2.02	0.74
1:D:1876:THR:O	1:C:71:GLN:NE2	2.21	0.74
1:B:530:CYS:N	1:B:541:LEU:HD11	2.02	0.74
1:A:2411:PHE:CZ	1:A:2412:PHE:CZ	2.74	0.74
1:D:2243:PHE:CZ	1:D:2612:PHE:HZ	1.98	0.74
1:C:1198:ARG:C	1:C:1200:GLN:H	1.96	0.74
1:C:2285:VAL:HG12	1:C:2417:LEU:CD2	2.16	0.74
1:C:2411:PHE:CZ	1:C:2412:PHE:CZ	2.74	0.74
1:B:2176:PRO:O	1:B:2186:LEU:CD2	2.35	0.74
1:B:2704:SER:O	1:B:2708:LEU:CD1	2.35	0.74
1:A:2273:MET:HE3	1:A:2274:SER:HA	1.69	0.74
1:D:2411:PHE:HZ	1:D:2412:PHE:CZ	2.05	0.74
1:C:2227:ILE:HD12	1:C:2246:ARG:HG2	1.63	0.74
1:C:2411:PHE:HZ	1:C:2412:PHE:CZ	2.05	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1198:ARG:C	1:B:1200:GLN:H	1.96	0.74
1:B:2285:VAL:HG12	1:B:2417:LEU:CD2	2.16	0.74
1:A:364:ILE:CD1	1:D:2736:LEU:CD2	2.65	0.74
1:A:2266:LEU:HD12	1:A:2266:LEU:N	2.01	0.74
1:D:63:MET:O	1:D:64:ASN:OD1	2.05	0.74
1:D:510:MET:CA	1:D:515:ILE:HD11	2.16	0.74
1:D:2290:LEU:C	1:D:2290:LEU:HD12	2.12	0.74
1:D:2571:LEU:C	1:D:2571:LEU:HD12	2.13	0.74
1:C:2:SER:OG	1:C:2719:LEU:HD22	1.86	0.74
1:C:530:CYS:SG	1:C:536:LEU:O	2.45	0.74
1:C:2176:PRO:O	1:C:2186:LEU:CD2	2.35	0.74
1:B:72:PHE:CD1	1:B:92:LEU:HD12	2.23	0.74
1:B:510:MET:O	1:B:516:LEU:CD2	2.31	0.74
1:B:2571:LEU:C	1:B:2571:LEU:HD12	2.13	0.74
1:D:2699:GLN:OE1	1:C:2700:GLU:CA	2.35	0.74
1:B:2232:GLU:CB	1:B:2242:ASP:CG	2.60	0.74
1:A:530:CYS:SG	1:A:536:LEU:O	2.45	0.74
1:A:2411:PHE:HZ	1:A:2412:PHE:CZ	2.05	0.74
1:A:2571:LEU:C	1:A:2571:LEU:HD12	2.13	0.74
1:B:2225:LEU:HD12	1:B:2225:LEU:O	1.88	0.74
1:B:2276:TRP:CZ2	1:B:2395:HIS:ND1	2.56	0.74
1:A:2176:PRO:O	1:A:2186:LEU:CD2	2.35	0.74
1:A:2219:LEU:CD2	1:A:2223:SER:OG	2.34	0.74
1:D:302:LEU:O	1:D:367:ILE:CG2	2.36	0.74
1:D:2275:PHE:HD1	1:D:2276:TRP:H	1.30	0.74
1:C:63:MET:O	1:C:64:ASN:OD1	2.05	0.74
1:C:72:PHE:CD1	1:C:92:LEU:HD12	2.23	0.74
1:C:364:ILE:HG22	1:C:393:LEU:CG	2.14	0.74
1:C:2275:PHE:O	1:C:2277:SER:N	2.21	0.74
1:C:2335:ALA:C	1:C:2336:LEU:HD13	2.13	0.74
1:C:2549:VAL:CG1	1:C:2573:PHE:CD2	2.65	0.74
1:A:2704:SER:O	1:A:2708:LEU:CD1	2.35	0.74
1:D:510:MET:O	1:D:516:LEU:CD2	2.31	0.74
1:C:2704:SER:O	1:C:2708:LEU:CD1	2.35	0.74
1:B:2275:PHE:O	1:B:2277:SER:N	2.21	0.74
1:B:2290:LEU:C	1:B:2290:LEU:HD12	2.12	0.74
1:B:2396:LEU:O	1:B:2396:LEU:HD12	1.88	0.74
1:A:530:CYS:N	1:A:541:LEU:HD11	2.02	0.74
1:A:1198:ARG:C	1:A:1200:GLN:H	1.96	0.74
1:D:1345:TYR:C	1:D:1349:ALA:CA	2.60	0.74
1:D:2225:LEU:O	1:D:2225:LEU:HD12	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:302:LEU:O	1:C:367:ILE:CG2	2.36	0.74
1:B:302:LEU:O	1:B:367:ILE:CG2	2.36	0.73
1:B:2266:LEU:HD12	1:B:2266:LEU:N	2.01	0.73
1:B:2266:LEU:HA	1:B:2269:CYS:SG	2.27	0.73
1:B:2625:THR:HG23	1:B:2626:VAL:H	1.48	0.73
1:A:364:ILE:HG21	1:D:2737:GLY:HA2	1.68	0.73
1:A:2290:LEU:HD12	1:A:2290:LEU:C	2.12	0.73
1:D:2276:TRP:CZ2	1:D:2395:HIS:ND1	2.56	0.73
1:C:530:CYS:N	1:C:541:LEU:HD11	2.02	0.73
1:B:2243:PHE:HE1	1:B:2612:PHE:CZ	2.04	0.73
1:A:461:GLU:OE2	1:A:528:THR:OG1	2.03	0.73
1:A:2276:TRP:CZ2	1:A:2395:HIS:ND1	2.56	0.73
1:A:2396:LEU:HD12	1:A:2396:LEU:O	1.88	0.73
1:D:2335:ALA:C	1:D:2336:LEU:HD13	2.13	0.73
1:D:2337:ILE:HD12	1:D:2337:ILE:N	2.02	0.73
1:A:2335:ALA:C	1:A:2336:LEU:HD13	2.13	0.73
1:D:2232:GLU:CB	1:D:2242:ASP:CG	2.60	0.73
1:C:2219:LEU:CD2	1:C:2223:SER:OG	2.34	0.73
1:B:2276:TRP:HH2	1:B:2395:HIS:CG	2.01	0.73
1:A:302:LEU:O	1:A:367:ILE:CG2	2.36	0.73
1:A:2225:LEU:HD12	1:A:2225:LEU:O	1.88	0.73
1:D:1198:ARG:C	1:D:1200:GLN:H	1.96	0.73
1:C:2274:SER:O	1:C:2277:SER:OG	2.07	0.73
1:C:2571:LEU:C	1:C:2571:LEU:HD12	2.12	0.73
1:B:2736:LEU:CG	1:C:364:ILE:CD1	2.43	0.73
1:D:2622:ASP:CB	1:D:2628:PHE:HD1	2.01	0.73
1:C:2225:LEU:HD12	1:C:2225:LEU:O	1.88	0.73
1:C:2290:LEU:C	1:C:2290:LEU:HD12	2.12	0.73
1:B:2337:ILE:H	1:B:2337:ILE:CD1	2.00	0.73
1:A:2274:SER:O	1:A:2277:SER:OG	2.07	0.73
1:D:72:PHE:CD1	1:D:92:LEU:HD12	2.23	0.73
1:D:2369:LEU:HB2	1:D:2395:HIS:NE2	2.04	0.73
1:D:2622:ASP:OD2	1:D:2631:HIS:HE1	1.31	0.73
1:C:2369:LEU:HB2	1:C:2395:HIS:NE2	2.04	0.73
1:B:2240:ILE:HD13	1:B:2672:LEU:HD12	1.67	0.73
1:B:2274:SER:O	1:B:2277:SER:OG	2.07	0.73
1:B:2622:ASP:CB	1:B:2628:PHE:HD1	2.01	0.73
1:A:2622:ASP:OD2	1:A:2631:HIS:HE1	1.31	0.73
1:D:2345:ILE:CD1	1:D:2353:THR:CG2	2.66	0.73
1:C:2276:TRP:CZ2	1:C:2395:HIS:ND1	2.56	0.73
1:B:63:MET:O	1:B:64:ASN:OD1	2.05	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2698:LEU:HD23	1:B:2698:LEU:N	2.04	0.73
1:A:72:PHE:CD1	1:A:92:LEU:HD12	2.23	0.73
1:D:530:CYS:SG	1:D:536:LEU:O	2.45	0.73
1:D:2215:ILE:O	1:D:2254:MET:HE3	1.84	0.73
1:D:2578:ILE:C	1:D:2578:ILE:HD12	2.13	0.73
1:D:2730:LYS:O	1:D:2730:LYS:NZ	2.22	0.73
1:C:514:ASN:OD1	1:C:514:ASN:N	2.19	0.73
1:B:2345:ILE:CD1	1:B:2353:THR:CG2	2.66	0.73
1:B:2618:ARG:HD3	1:B:2628:PHE:HZ	1.42	0.73
1:A:2625:THR:HG23	1:A:2626:VAL:H	1.48	0.73
1:A:2698:LEU:HD23	1:A:2698:LEU:N	2.04	0.73
1:D:514:ASN:N	1:D:514:ASN:OD1	2.19	0.73
1:C:2578:ILE:C	1:C:2578:ILE:HD12	2.13	0.73
1:B:2288:ASN:HD22	1:B:2414:SER:HA	1.42	0.73
1:A:2345:ILE:CD1	1:A:2353:THR:CG2	2.66	0.73
1:C:2396:LEU:HD12	1:C:2396:LEU:O	1.88	0.73
1:C:2622:ASP:CB	1:C:2628:PHE:HD1	2.01	0.73
1:C:2695:LEU:HD22	1:C:2695:LEU:C	2.14	0.73
1:B:2369:LEU:HB2	1:B:2395:HIS:NE2	2.04	0.72
1:A:364:ILE:CD1	1:D:2736:LEU:HD23	2.19	0.72
1:A:2232:GLU:CB	1:A:2242:ASP:CG	2.60	0.72
1:A:2269:CYS:C	1:A:2371:SER:OG	2.32	0.72
1:A:2275:PHE:O	1:A:2277:SER:N	2.21	0.72
1:A:2345:ILE:C	1:A:2353:THR:CG2	2.62	0.72
1:A:2410:GLU:CD	1:A:2411:PHE:H	1.93	0.72
1:D:2219:LEU:CD2	1:D:2223:SER:OG	2.34	0.72
1:B:2388:LEU:CD2	1:B:2388:LEU:H	1.93	0.72
1:B:2410:GLU:CD	1:B:2411:PHE:H	1.93	0.72
1:A:2578:ILE:C	1:A:2578:ILE:HD12	2.13	0.72
1:D:2275:PHE:O	1:D:2277:SER:N	2.21	0.72
1:D:2451:LEU:CA	1:D:2454:LEU:HD21	2.03	0.72
1:C:2232:GLU:CB	1:C:2242:ASP:CG	2.60	0.72
1:C:2345:ILE:C	1:C:2353:THR:CG2	2.62	0.72
1:B:2345:ILE:C	1:B:2353:THR:CG2	2.62	0.72
1:D:2695:LEU:CD2	1:D:2698:LEU:HD12	2.12	0.72
1:C:2227:ILE:CG2	1:C:2638:MET:HE1	2.09	0.72
1:C:2336:LEU:HD13	1:C:2336:LEU:N	2.04	0.72
1:B:63:MET:C	1:B:64:ASN:CG	2.54	0.72
1:A:2399:LEU:C	1:A:2399:LEU:HD12	2.14	0.72
1:D:364:ILE:HD13	1:C:2736:LEU:HB3	1.57	0.72
1:D:2345:ILE:C	1:D:2353:THR:CG2	2.62	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2698:LEU:HD23	1:D:2698:LEU:N	2.04	0.72
1:C:525:ALA:HB3	1:C:526:PRO:HD2	1.72	0.72
1:C:2278:SER:O	1:C:2282:ASN:ND2	2.23	0.72
1:B:2399:LEU:C	1:B:2399:LEU:HD12	2.15	0.72
1:A:2369:LEU:HB2	1:A:2395:HIS:NE2	2.04	0.72
1:A:2622:ASP:CB	1:A:2628:PHE:HD1	2.01	0.72
1:A:2699:GLN:HB2	1:D:2700:GLU:CD	2.13	0.72
1:D:2396:LEU:HD12	1:D:2396:LEU:O	1.88	0.72
1:D:2399:LEU:C	1:D:2399:LEU:HD12	2.14	0.72
1:C:538:LEU:CD1	1:C:585:ILE:O	2.38	0.72
1:C:2345:ILE:CD1	1:C:2353:THR:CG2	2.66	0.72
1:B:2335:ALA:C	1:B:2336:LEU:HD13	2.13	0.72
1:B:2336:LEU:HD13	1:B:2336:LEU:N	2.05	0.72
1:B:2706:MET:SD	1:A:2707:LYS:HG3	2.30	0.72
1:A:2240:ILE:HG21	1:A:2675:PHE:CD2	2.25	0.72
1:D:538:LEU:CD1	1:D:585:ILE:O	2.38	0.72
1:C:2698:LEU:HD23	1:C:2698:LEU:N	2.04	0.72
1:C:2730:LYS:O	1:C:2730:LYS:NZ	2.22	0.72
1:B:538:LEU:CD1	1:B:585:ILE:O	2.38	0.72
1:B:2284:ALA:HB1	1:B:2416:LEU:HD12	1.71	0.72
1:B:2695:LEU:HD22	1:B:2695:LEU:C	2.14	0.72
1:A:2278:SER:O	1:A:2282:ASN:ND2	2.23	0.72
1:A:2618:ARG:HD3	1:A:2628:PHE:HZ	1.42	0.72
1:A:2706:MET:CG	1:D:2707:LYS:CG	2.56	0.72
1:D:525:ALA:HB3	1:D:526:PRO:HD2	1.72	0.72
1:D:2274:SER:O	1:D:2277:SER:OG	2.07	0.72
1:D:2572:LEU:C	1:D:2572:LEU:HD12	2.15	0.72
1:C:2572:LEU:C	1:C:2572:LEU:HD12	2.15	0.72
1:B:2278:SER:O	1:B:2282:ASN:ND2	2.23	0.72
1:A:2336:LEU:HD22	1:A:2336:LEU:N	2.04	0.72
1:A:2730:LYS:O	1:A:2730:LYS:NZ	2.22	0.72
1:D:516:LEU:HD13	1:D:516:LEU:N	2.05	0.72
1:B:514:ASN:OD1	1:B:514:ASN:N	2.19	0.72
1:B:2240:ILE:HG21	1:B:2675:PHE:CD2	2.25	0.72
1:B:2578:ILE:C	1:B:2578:ILE:HD12	2.14	0.72
1:A:2336:LEU:HD13	1:A:2336:LEU:N	2.04	0.72
1:D:2417:LEU:HD22	1:D:2417:LEU:O	1.90	0.72
1:C:2240:ILE:HG21	1:C:2675:PHE:CD2	2.25	0.72
1:B:2572:LEU:C	1:B:2572:LEU:HD12	2.15	0.71
1:B:2707:LYS:CD	1:C:2706:MET:CB	2.58	0.71
1:A:2695:LEU:HD22	1:A:2695:LEU:C	2.14	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2227:ILE:CG2	1:D:2638:MET:HE1	2.09	0.71
1:D:2240:ILE:HG21	1:D:2675:PHE:CD2	2.25	0.71
1:D:2243:PHE:CZ	1:D:2612:PHE:HE2	1.75	0.71
1:C:2269:CYS:C	1:C:2371:SER:OG	2.31	0.71
1:C:2345:ILE:CA	1:C:2353:THR:HG22	2.20	0.71
1:C:2399:LEU:C	1:C:2399:LEU:HD12	2.15	0.71
1:B:2736:LEU:C	1:C:364:ILE:CG1	2.61	0.71
1:A:520:PHE:CE2	1:A:576:LYS:CE	2.68	0.71
1:B:394:CYS:HB2	1:A:2737:GLY:HA3	1.72	0.71
1:A:63:MET:O	1:A:64:ASN:OD1	2.05	0.71
1:B:2227:ILE:CG2	1:B:2638:MET:HE1	2.09	0.71
1:A:2572:LEU:C	1:A:2572:LEU:HD12	2.15	0.71
1:D:2345:ILE:CA	1:D:2353:THR:HG22	2.20	0.71
1:C:2417:LEU:O	1:C:2417:LEU:HD22	1.90	0.71
1:A:2284:ALA:HB1	1:A:2416:LEU:HD12	1.71	0.71
1:D:2284:ALA:HB1	1:D:2416:LEU:HD12	1.71	0.71
1:C:527:PHE:HD2	1:C:537:ARG:HE	1.39	0.71
1:C:2705:THR:CA	1:C:2708:LEU:HD21	2.15	0.71
1:D:2336:LEU:HD13	1:D:2336:LEU:N	2.05	0.71
1:B:525:ALA:HB3	1:B:526:PRO:HD2	1.72	0.71
1:A:2345:ILE:O	1:A:2353:THR:HG21	1.91	0.71
1:D:530:CYS:HB2	1:D:541:LEU:HD11	1.73	0.71
1:D:2336:LEU:HD22	1:D:2336:LEU:N	2.04	0.71
1:D:2345:ILE:O	1:D:2353:THR:HG21	1.91	0.71
1:D:2695:LEU:HD22	1:D:2695:LEU:C	2.14	0.71
1:B:2379:PHE:CG	1:B:2392:PHE:HZ	2.07	0.71
1:B:2417:LEU:O	1:B:2417:LEU:HD22	1.90	0.71
1:B:516:LEU:HD13	1:B:516:LEU:N	2.05	0.71
1:B:2345:ILE:CA	1:B:2353:THR:HG22	2.20	0.71
1:B:2712:LEU:C	1:B:2712:LEU:HD12	2.16	0.71
1:A:364:ILE:HD13	1:D:2736:LEU:CD2	2.20	0.71
1:A:538:LEU:CD1	1:A:585:ILE:O	2.38	0.71
1:A:2337:ILE:HD12	1:A:2337:ILE:N	2.02	0.71
1:D:2278:SER:O	1:D:2282:ASN:ND2	2.23	0.71
1:C:2284:ALA:HB1	1:C:2416:LEU:HD12	1.71	0.71
1:C:2336:LEU:HD22	1:C:2336:LEU:N	2.04	0.71
1:B:2269:CYS:C	1:B:2371:SER:OG	2.32	0.71
1:B:70:LYS:HB3	1:B:70:LYS:HZ2	1.56	0.70
1:A:516:LEU:HD13	1:A:516:LEU:N	2.05	0.70
1:A:520:PHE:HZ	1:A:576:LYS:HZ3	1.05	0.70
1:A:2423:ARG:NH1	1:A:2423:ARG:HB3	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2712:LEU:C	1:A:2712:LEU:HD12	2.16	0.70
1:C:2227:ILE:CD1	1:C:2246:ARG:CG	2.31	0.70
1:B:2730:LYS:O	1:B:2730:LYS:NZ	2.22	0.70
1:A:2618:ARG:HG2	1:A:2628:PHE:CZ	2.21	0.70
1:D:2188:PHE:O	1:D:2191:LYS:CB	2.39	0.70
1:D:2417:LEU:HD11	1:C:2450:ILE:HG21	1.73	0.70
1:D:2423:ARG:HB3	1:D:2423:ARG:NH1	2.06	0.70
1:C:2272:ASN:ND2	1:C:2367:ILE:HG21	2.06	0.70
1:C:2712:LEU:C	1:C:2712:LEU:HD12	2.16	0.70
1:B:2243:PHE:CE1	1:B:2612:PHE:HZ	2.07	0.70
1:B:2272:ASN:ND2	1:B:2367:ILE:HG21	2.06	0.70
1:A:2144:ASP:N	1:A:2652:ASP:HB2	2.05	0.70
1:A:364:ILE:CG1	1:D:2736:LEU:C	2.62	0.70
1:D:2144:ASP:N	1:D:2652:ASP:HB2	2.05	0.70
1:C:2695:LEU:CD2	1:C:2698:LEU:HD12	2.12	0.70
1:B:510:MET:HG2	1:B:515:ILE:CD1	2.11	0.70
1:B:1198:ARG:C	1:B:1200:GLN:N	2.47	0.70
1:B:2737:GLY:HA3	1:C:394:CYS:HB2	1.73	0.70
1:A:525:ALA:HB3	1:A:526:PRO:HD2	1.72	0.70
1:A:2417:LEU:O	1:A:2417:LEU:HD22	1.90	0.70
1:D:2697:ASN:O	1:D:2700:GLU:N	2.24	0.70
1:C:2337:ILE:HD12	1:C:2337:ILE:N	2.02	0.70
1:C:2697:ASN:O	1:C:2700:GLU:N	2.24	0.70
1:B:2188:PHE:O	1:B:2191:LYS:CB	2.40	0.70
1:B:2227:ILE:CD1	1:B:2246:ARG:CG	2.31	0.70
1:B:2423:ARG:HB3	1:B:2423:ARG:NH1	2.06	0.70
1:A:2245:LEU:HD13	1:A:2383:TYR:CG	2.27	0.70
1:A:2345:ILE:CA	1:A:2353:THR:HG22	2.20	0.70
1:D:2712:LEU:C	1:D:2712:LEU:HD12	2.16	0.70
1:C:2345:ILE:HG22	1:C:2356:LEU:HD21	1.74	0.70
1:B:2736:LEU:C	1:C:364:ILE:CD1	2.65	0.70
1:A:530:CYS:HB2	1:A:541:LEU:HD11	1.73	0.70
1:A:2279:ILE:CD1	1:A:2364:ASN:CG	2.65	0.70
1:D:527:PHE:HD2	1:D:537:ARG:HE	1.39	0.70
1:D:2354:LEU:N	1:D:2354:LEU:HD23	2.07	0.70
1:C:2144:ASP:N	1:C:2652:ASP:HB2	2.05	0.70
1:D:2708:LEU:HD12	1:D:2708:LEU:H	1.57	0.70
1:B:527:PHE:HD2	1:B:537:ARG:HE	1.39	0.70
1:B:2336:LEU:HD22	1:B:2336:LEU:N	2.04	0.70
1:B:2369:LEU:HB2	1:B:2395:HIS:CD2	2.27	0.70
1:D:2245:LEU:HD13	1:D:2383:TYR:CG	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2345:ILE:HG22	1:D:2356:LEU:HD21	1.74	0.70
1:D:2350:LEU:C	1:D:2352:PRO:CD	2.54	0.70
1:D:2706:MET:SD	1:C:2707:LYS:HG3	2.31	0.70
1:C:1198:ARG:C	1:C:1200:GLN:N	2.47	0.70
1:C:2369:LEU:HB2	1:C:2395:HIS:CD2	2.27	0.70
1:C:2618:ARG:HG2	1:C:2628:PHE:CZ	2.21	0.70
1:B:2144:ASP:N	1:B:2652:ASP:HB2	2.06	0.70
1:B:2706:MET:CB	1:A:2707:LYS:CD	2.54	0.70
1:A:2354:LEU:N	1:A:2354:LEU:HD23	2.07	0.70
1:C:2708:LEU:H	1:C:2708:LEU:HD12	1.57	0.70
1:B:2369:LEU:C	1:B:2369:LEU:HD22	2.17	0.69
1:B:2416:LEU:HD13	1:B:2416:LEU:C	2.17	0.69
1:B:2697:ASN:O	1:B:2700:GLU:N	2.24	0.69
1:A:530:CYS:CB	1:A:541:LEU:CD1	2.70	0.69
1:A:2345:ILE:HG22	1:A:2356:LEU:HD21	1.74	0.69
1:A:2708:LEU:H	1:A:2708:LEU:HD12	1.57	0.69
1:C:2177:GLY:HA2	1:C:2186:LEU:HD21	1.74	0.69
1:C:2354:LEU:HD23	1:C:2354:LEU:N	2.07	0.69
1:C:2423:ARG:NH1	1:C:2423:ARG:HB3	2.06	0.69
1:A:514:ASN:N	1:A:514:ASN:OD1	2.19	0.69
1:D:394:CYS:CB	1:C:2737:GLY:HA2	2.16	0.69
1:D:2706:MET:CB	1:C:2707:LYS:CD	2.62	0.69
1:C:516:LEU:HD13	1:C:516:LEU:N	2.05	0.69
1:C:2245:LEU:HD13	1:C:2383:TYR:CG	2.27	0.69
1:B:2177:GLY:HA2	1:B:2186:LEU:HD21	1.73	0.69
1:A:2272:ASN:ND2	1:A:2367:ILE:HG21	2.06	0.69
1:D:2272:ASN:ND2	1:D:2367:ILE:HG21	2.07	0.69
1:D:2369:LEU:C	1:D:2369:LEU:HD22	2.17	0.69
1:D:2549:VAL:CG1	1:D:2573:PHE:CD2	2.65	0.69
1:B:2609:THR:HB	1:B:2618:ARG:NH1	1.87	0.69
1:A:2243:PHE:CE1	1:A:2612:PHE:HZ	2.07	0.69
1:D:364:ILE:HG23	1:D:393:LEU:HD21	1.75	0.69
1:C:364:ILE:HG23	1:C:393:LEU:HD21	1.75	0.69
1:B:2345:ILE:HG22	1:B:2356:LEU:HD21	1.74	0.69
1:D:2269:CYS:C	1:D:2371:SER:OG	2.32	0.69
1:D:2337:ILE:H	1:D:2337:ILE:CD1	1.99	0.69
1:C:530:CYS:HB2	1:C:541:LEU:HD11	1.73	0.69
1:A:2416:LEU:HD13	1:A:2416:LEU:C	2.17	0.69
1:D:2288:ASN:ND2	1:D:2414:SER:CA	2.10	0.69
1:B:2219:LEU:HD22	1:B:2220:THR:HG22	1.74	0.69
1:B:2279:ILE:CD1	1:B:2364:ASN:CG	2.65	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2708:LEU:H	1:B:2708:LEU:HD12	1.57	0.69
1:A:2369:LEU:HB2	1:A:2395:HIS:CD2	2.27	0.69
1:A:2697:ASN:O	1:A:2700:GLU:N	2.24	0.69
1:A:2721:ASP:N	1:A:2721:ASP:OD2	2.14	0.69
1:D:2416:LEU:HD13	1:D:2416:LEU:C	2.17	0.69
1:D:2708:LEU:HD12	1:D:2708:LEU:N	2.08	0.69
1:A:527:PHE:HD2	1:A:537:ARG:HE	1.39	0.69
1:A:2379:PHE:CG	1:A:2392:PHE:CZ	2.80	0.69
1:D:2379:PHE:CG	1:D:2392:PHE:CZ	2.81	0.69
1:C:2416:LEU:HD13	1:C:2416:LEU:C	2.17	0.69
1:B:461:GLU:HB2	1:B:525:ALA:HB1	1.75	0.69
1:B:510:MET:SD	1:B:515:ILE:HD12	2.33	0.69
1:A:2240:ILE:HD13	1:A:2672:LEU:HD12	1.67	0.69
1:A:2369:LEU:C	1:A:2369:LEU:HD22	2.17	0.69
1:A:2708:LEU:HD12	1:A:2708:LEU:N	2.08	0.69
1:C:2369:LEU:HD22	1:C:2369:LEU:C	2.17	0.69
1:C:2379:PHE:CG	1:C:2392:PHE:CZ	2.80	0.69
1:C:2695:LEU:CD2	1:C:2698:LEU:HD13	2.00	0.69
1:B:364:ILE:HG23	1:B:393:LEU:HD21	1.75	0.68
1:B:2576:MET:N	1:B:2576:MET:SD	2.66	0.68
1:B:2707:LYS:CE	1:C:2706:MET:CG	2.61	0.68
1:A:2188:PHE:O	1:A:2191:LYS:CB	2.40	0.68
1:A:2275:PHE:CZ	1:A:2367:ILE:HG22	2.28	0.68
1:D:2279:ILE:HD12	1:D:2364:ASN:CG	2.17	0.68
1:C:510:MET:HG2	1:C:515:ILE:CD1	2.11	0.68
1:B:2337:ILE:HD12	1:B:2337:ILE:N	2.02	0.68
1:B:2354:LEU:N	1:B:2354:LEU:HD23	2.07	0.68
1:B:2618:ARG:HD2	1:B:2628:PHE:HZ	0.68	0.68
1:A:364:ILE:HG23	1:A:393:LEU:HD21	1.75	0.68
1:C:461:GLU:HB2	1:C:525:ALA:HB1	1.75	0.68
1:C:520:PHE:CE2	1:C:576:LYS:CE	2.68	0.68
1:C:2708:LEU:HD12	1:C:2708:LEU:N	2.08	0.68
1:B:2609:THR:CA	1:B:2618:ARG:NE	2.56	0.68
1:D:2177:GLY:HA2	1:D:2186:LEU:HD21	1.73	0.68
1:C:2231:THR:CG2	1:C:2232:GLU:N	1.84	0.68
1:C:2279:ILE:HD12	1:C:2364:ASN:CG	2.17	0.68
1:C:2345:ILE:O	1:C:2353:THR:HG21	1.91	0.68
1:B:2379:PHE:CG	1:B:2392:PHE:CZ	2.81	0.68
1:A:2219:LEU:HD22	1:A:2220:THR:HG22	1.74	0.68
1:A:2549:VAL:CG1	1:A:2573:PHE:CD2	2.65	0.68
1:C:2576:MET:N	1:C:2576:MET:SD	2.66	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2245:LEU:HD13	1:B:2383:TYR:CG	2.27	0.68
1:B:2708:LEU:HD12	1:B:2708:LEU:N	2.08	0.68
1:A:510:MET:SD	1:A:515:ILE:HD12	2.33	0.68
1:C:2219:LEU:HD22	1:C:2220:THR:HG22	1.74	0.68
1:B:2279:ILE:HD12	1:B:2364:ASN:CG	2.17	0.68
1:A:394:CYS:HB2	1:D:2737:GLY:HA3	1.74	0.68
1:A:2579:ILE:HD12	1:A:2580:ILE:HG12	1.76	0.68
1:D:364:ILE:HD13	1:C:2736:LEU:CD2	2.24	0.68
1:D:2398:TYR:HE1	1:D:2416:LEU:HD21	1.52	0.68
1:D:2609:THR:HA	1:D:2618:ARG:HE	1.58	0.68
1:D:2706:MET:HG2	1:C:2707:LYS:HE3	1.71	0.68
1:B:2288:ASN:OD1	1:B:2413:TYR:CB	2.40	0.68
1:B:2417:LEU:HD13	1:B:2417:LEU:C	2.19	0.68
1:B:2579:ILE:HD12	1:B:2580:ILE:HG12	1.76	0.68
1:B:2716:LEU:HD12	1:B:2716:LEU:C	2.19	0.68
1:A:461:GLU:HB2	1:A:525:ALA:HB1	1.75	0.68
1:A:2576:MET:SD	1:A:2576:MET:N	2.66	0.68
1:D:461:GLU:HB2	1:D:525:ALA:HB1	1.75	0.68
1:C:510:MET:SD	1:C:515:ILE:HD12	2.33	0.68
1:C:2337:ILE:H	1:C:2337:ILE:CD1	1.99	0.68
1:C:2609:THR:HA	1:C:2618:ARG:HE	1.58	0.68
1:C:2694:GLU:O	1:C:2698:LEU:HD22	1.93	0.68
1:B:2706:MET:CG	1:A:2707:LYS:CE	2.58	0.68
1:A:2219:LEU:HD22	1:A:2219:LEU:C	2.18	0.68
1:A:2337:ILE:H	1:A:2337:ILE:CD1	2.00	0.68
1:A:2388:LEU:CD2	1:A:2388:LEU:H	1.93	0.68
1:A:2417:LEU:C	1:A:2417:LEU:HD13	2.19	0.68
1:C:2225:LEU:HD12	1:C:2225:LEU:C	2.19	0.68
1:C:2288:ASN:ND2	1:C:2414:SER:CA	2.10	0.68
1:B:2219:LEU:HD22	1:B:2219:LEU:C	2.18	0.68
1:A:2177:GLY:HA2	1:A:2186:LEU:HD21	1.74	0.68
1:A:2408:VAL:HG11	1:A:2412:PHE:CD2	2.27	0.68
1:A:2564:ALA:HA	1:A:2567:VAL:CG2	2.24	0.68
1:D:510:MET:SD	1:D:515:ILE:HD12	2.33	0.68
1:D:2579:ILE:HD12	1:D:2580:ILE:HG12	1.76	0.68
1:D:2694:GLU:O	1:D:2698:LEU:HD22	1.93	0.68
1:D:2695:LEU:CD2	1:D:2698:LEU:HD13	2.00	0.68
1:B:2735:LEU:C	1:B:2735:LEU:HD23	2.19	0.68
1:A:2609:THR:CA	1:A:2618:ARG:HE	2.07	0.68
1:D:392:HIS:ND1	1:D:397:THR:CA	2.51	0.68
1:D:2219:LEU:HD22	1:D:2220:THR:HG22	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2219:LEU:HD22	1:D:2219:LEU:C	2.18	0.67
1:D:2225:LEU:HD12	1:D:2225:LEU:C	2.19	0.67
1:D:2417:LEU:C	1:D:2417:LEU:HD13	2.19	0.67
1:D:2576:MET:N	1:D:2576:MET:SD	2.66	0.67
1:C:2215:ILE:O	1:C:2254:MET:HG2	1.95	0.67
1:B:364:ILE:HG23	1:B:393:LEU:CG	2.24	0.67
1:A:2735:LEU:HD23	1:A:2735:LEU:C	2.19	0.67
1:C:530:CYS:CB	1:C:541:LEU:CD1	2.70	0.67
1:C:2279:ILE:CD1	1:C:2364:ASN:CG	2.65	0.67
1:B:2609:THR:CA	1:B:2618:ARG:HE	2.07	0.67
1:B:2706:MET:CB	1:A:2707:LYS:CG	2.72	0.67
1:B:2707:LYS:HG3	1:C:2706:MET:HG2	1.69	0.67
1:D:2215:ILE:O	1:D:2254:MET:HG2	1.95	0.67
1:D:2243:PHE:HE1	1:D:2612:PHE:CZ	2.04	0.67
1:D:2369:LEU:HB2	1:D:2395:HIS:CD2	2.27	0.67
1:C:2219:LEU:HD22	1:C:2219:LEU:C	2.18	0.67
1:B:139:PRO:HB2	1:B:148:ARG:HH21	1.60	0.67
1:A:2694:GLU:O	1:A:2698:LEU:HD22	1.93	0.67
1:D:520:PHE:CE2	1:D:576:LYS:CE	2.68	0.67
1:C:364:ILE:HG23	1:C:393:LEU:CG	2.24	0.67
1:C:2579:ILE:HD12	1:C:2580:ILE:HG12	1.76	0.67
1:B:520:PHE:CE2	1:B:576:LYS:CE	2.68	0.67
1:B:530:CYS:HB2	1:B:541:LEU:HD11	1.73	0.67
1:B:2410:GLU:O	1:B:2412:PHE:C	2.38	0.67
1:B:2564:ALA:HA	1:B:2567:VAL:CG2	2.24	0.67
1:B:2694:GLU:O	1:B:2698:LEU:HD22	1.93	0.67
1:B:2700:GLU:CD	1:C:2699:GLN:HB2	2.20	0.67
1:D:2276:TRP:CH2	1:D:2395:HIS:CE1	2.83	0.67
1:C:2250:LEU:HD13	1:C:2250:LEU:C	2.20	0.67
1:A:461:GLU:CD	1:A:528:THR:HG1	2.02	0.67
1:A:2351:GLN:N	1:A:2352:PRO:HD3	2.09	0.67
1:A:2398:TYR:HE1	1:A:2416:LEU:HD21	1.52	0.67
1:D:2275:PHE:CZ	1:D:2367:ILE:HG22	2.28	0.67
1:C:2243:PHE:CE1	1:C:2612:PHE:HZ	2.07	0.67
1:C:2288:ASN:HD21	1:C:2413:TYR:C	2.03	0.67
1:B:2275:PHE:CZ	1:B:2367:ILE:HG22	2.28	0.67
1:B:2417:LEU:HD11	1:A:2450:ILE:HG21	1.77	0.67
1:A:2225:LEU:HD12	1:A:2225:LEU:C	2.19	0.67
1:A:2609:THR:HA	1:A:2618:ARG:HE	1.58	0.67
1:D:2564:ALA:HA	1:D:2567:VAL:CG2	2.24	0.67
1:D:2735:LEU:HD23	1:D:2735:LEU:C	2.19	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2564:ALA:HA	1:C:2567:VAL:CG2	2.24	0.67
1:C:2716:LEU:HD12	1:C:2716:LEU:C	2.19	0.67
1:A:364:ILE:HG23	1:A:393:LEU:CG	2.24	0.67
1:A:2250:LEU:HD13	1:A:2250:LEU:C	2.20	0.67
1:D:2410:GLU:O	1:D:2412:PHE:CA	2.43	0.67
1:C:2417:LEU:HD13	1:C:2417:LEU:C	2.19	0.67
1:B:2276:TRP:CH2	1:B:2395:HIS:CE1	2.83	0.67
1:B:2545:SER:O	1:B:2547:GLY:N	2.27	0.67
1:A:139:PRO:HB2	1:A:148:ARG:HH21	1.60	0.67
1:B:530:CYS:CB	1:B:541:LEU:CD1	2.70	0.67
1:B:2219:LEU:CD2	1:B:2223:SER:OG	2.34	0.67
1:A:2215:ILE:O	1:A:2254:MET:HG2	1.95	0.67
1:A:2288:ASN:OD1	1:A:2413:TYR:CB	2.40	0.67
1:A:2716:LEU:HD12	1:A:2716:LEU:C	2.19	0.67
1:A:2719:LEU:C	1:A:2719:LEU:HD12	2.20	0.67
1:D:530:CYS:CB	1:D:541:LEU:CD1	2.70	0.67
1:D:2279:ILE:CD1	1:D:2364:ASN:CG	2.65	0.67
1:D:2351:GLN:N	1:D:2352:PRO:HD3	2.09	0.67
1:D:2624:LYS:O	1:D:2624:LYS:NZ	2.28	0.67
1:C:2410:GLU:O	1:C:2412:PHE:C	2.38	0.67
1:C:2609:THR:CA	1:C:2618:ARG:NE	2.56	0.67
1:B:2225:LEU:HD12	1:B:2225:LEU:C	2.19	0.66
1:D:364:ILE:CG2	1:D:393:LEU:HD21	2.25	0.66
1:D:2716:LEU:HD12	1:D:2716:LEU:C	2.19	0.66
1:C:2275:PHE:CZ	1:C:2367:ILE:HB	2.28	0.66
1:C:2609:THR:CA	1:C:2618:ARG:HE	2.07	0.66
1:C:2719:LEU:C	1:C:2719:LEU:HD12	2.20	0.66
1:B:2215:ILE:O	1:B:2254:MET:HG2	1.95	0.66
1:B:2345:ILE:O	1:B:2353:THR:HG21	1.91	0.66
1:A:2276:TRP:CH2	1:A:2395:HIS:CE1	2.83	0.66
1:C:2275:PHE:CZ	1:C:2367:ILE:HG22	2.28	0.66
1:B:2275:PHE:O	1:B:2278:SER:N	2.29	0.66
1:B:2345:ILE:HD12	1:B:2350:LEU:CD1	2.26	0.66
1:D:2250:LEU:HD13	1:D:2250:LEU:C	2.20	0.66
1:D:2288:ASN:HD21	1:D:2413:TYR:C	2.03	0.66
1:D:2721:ASP:N	1:D:2721:ASP:OD2	2.14	0.66
1:C:2408:VAL:HG11	1:C:2412:PHE:CD2	2.27	0.66
1:C:2545:SER:O	1:C:2547:GLY:N	2.27	0.66
1:B:2288:ASN:HD21	1:B:2413:TYR:C	2.03	0.66
1:B:2699:GLN:HB2	1:A:2700:GLU:CD	2.19	0.66
1:B:2712:LEU:HD12	1:B:2712:LEU:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:364:ILE:CG2	1:A:393:LEU:HD21	2.25	0.66
1:A:2143:GLU:CA	1:A:2650:VAL:O	2.44	0.66
1:C:2245:LEU:CD1	1:C:2383:TYR:CD2	2.79	0.66
1:C:2410:GLU:O	1:C:2412:PHE:CA	2.43	0.66
1:A:518:GLN:NE2	1:A:518:GLN:HA	2.11	0.66
1:A:2410:GLU:HB2	1:A:2413:TYR:HB2	1.78	0.66
1:D:2143:GLU:CA	1:D:2650:VAL:O	2.44	0.66
1:D:2609:THR:CA	1:D:2618:ARG:HE	2.07	0.66
1:D:2609:THR:CA	1:D:2618:ARG:NE	2.56	0.66
1:C:139:PRO:HB2	1:C:148:ARG:HH21	1.60	0.66
1:A:2275:PHE:O	1:A:2278:SER:N	2.29	0.66
1:D:2245:LEU:CD1	1:D:2383:TYR:CD2	2.79	0.66
1:D:2275:PHE:CZ	1:D:2367:ILE:HB	2.28	0.66
1:D:2408:VAL:HG11	1:D:2412:PHE:CD2	2.27	0.66
1:D:2410:GLU:HB2	1:D:2413:TYR:HB2	1.78	0.66
1:D:2712:LEU:HD12	1:D:2712:LEU:O	1.95	0.66
1:C:2276:TRP:CH2	1:C:2395:HIS:CE1	2.83	0.66
1:C:2735:LEU:HD23	1:C:2735:LEU:C	2.19	0.66
1:D:139:PRO:HB2	1:D:148:ARG:HH21	1.60	0.66
1:D:364:ILE:HG23	1:D:393:LEU:CG	2.24	0.66
1:D:1198:ARG:C	1:D:1200:GLN:N	2.47	0.66
1:D:2345:ILE:HD12	1:D:2350:LEU:CD1	2.26	0.66
1:D:2705:THR:CA	1:D:2708:LEU:HD21	2.15	0.66
1:C:2350:LEU:O	1:C:2354:LEU:HG	1.96	0.66
1:B:2245:LEU:CD1	1:B:2383:TYR:CD2	2.79	0.66
1:A:2288:ASN:HD21	1:A:2413:TYR:C	2.03	0.66
1:A:2350:LEU:HA	1:A:2353:THR:OG1	1.96	0.66
1:A:2387:VAL:HG13	1:A:2388:LEU:HD23	1.77	0.66
1:C:2345:ILE:HD12	1:C:2350:LEU:CD1	2.26	0.66
1:B:364:ILE:HG21	1:A:2737:GLY:CA	2.26	0.66
1:A:2528:CYS:SG	1:A:2529:GLU:N	2.69	0.66
1:D:2276:TRP:CA	1:D:2368:PHE:HB3	2.26	0.66
1:C:2350:LEU:HA	1:C:2353:THR:OG1	1.96	0.66
1:B:364:ILE:CG2	1:B:393:LEU:HD21	2.25	0.66
1:B:2250:LEU:HD13	1:B:2250:LEU:C	2.20	0.66
1:B:2350:LEU:HA	1:B:2353:THR:OG1	1.96	0.66
1:B:2387:VAL:HG13	1:B:2388:LEU:HD23	1.77	0.66
1:D:2266:LEU:O	1:D:2269:CYS:SG	2.54	0.66
1:D:2379:PHE:CE2	1:D:2392:PHE:CZ	2.84	0.66
1:D:2387:VAL:HG13	1:D:2388:LEU:HD23	1.77	0.66
1:C:2351:GLN:N	1:C:2352:PRO:HD3	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2379:PHE:CE2	1:C:2392:PHE:CZ	2.84	0.66
1:B:2227:ILE:HG21	1:B:2638:MET:HE2	1.77	0.65
1:B:2276:TRP:CA	1:B:2368:PHE:HB3	2.26	0.65
1:B:2351:GLN:N	1:B:2352:PRO:HD3	2.09	0.65
1:A:2624:LYS:O	1:A:2624:LYS:NZ	2.28	0.65
1:D:2350:LEU:HA	1:D:2353:THR:OG1	1.96	0.65
1:C:2712:LEU:HD12	1:C:2712:LEU:O	1.95	0.65
1:B:2143:GLU:CA	1:B:2650:VAL:O	2.44	0.65
1:B:2368:PHE:HZ	1:B:2398:TYR:CE2	2.15	0.65
1:B:2624:LYS:O	1:B:2624:LYS:NZ	2.28	0.65
1:A:2345:ILE:HD12	1:A:2350:LEU:CD1	2.26	0.65
1:A:2368:PHE:HZ	1:A:2398:TYR:CE2	2.15	0.65
1:A:2410:GLU:O	1:A:2412:PHE:C	2.38	0.65
1:D:364:ILE:CD1	1:C:2736:LEU:CD2	2.74	0.65
1:C:2143:GLU:CA	1:C:2650:VAL:O	2.44	0.65
1:B:2706:MET:HB2	1:A:2711:ASN:HD21	1.62	0.65
1:A:223:PHE:HB2	1:A:294:GLY:HA2	1.78	0.65
1:A:2245:LEU:CD1	1:A:2383:TYR:CD2	2.79	0.65
1:A:2279:ILE:HD12	1:A:2364:ASN:CG	2.17	0.65
1:D:2368:PHE:HZ	1:D:2398:TYR:CE2	2.15	0.65
1:D:2410:GLU:O	1:D:2412:PHE:C	2.38	0.65
1:D:2528:CYS:SG	1:D:2529:GLU:N	2.69	0.65
1:D:2566:ARG:C	1:D:2566:ARG:HD3	2.22	0.65
1:C:2288:ASN:OD1	1:C:2413:TYR:CB	2.40	0.65
1:C:2566:ARG:HD3	1:C:2566:ARG:C	2.21	0.65
1:B:2245:LEU:HD12	1:B:2383:TYR:CD2	2.32	0.65
1:A:2276:TRP:CA	1:A:2368:PHE:CB	2.75	0.65
1:A:2609:THR:CA	1:A:2618:ARG:NE	2.56	0.65
1:D:1630:LEU:O	1:D:1634:GLU:N	2.29	0.65
1:D:2285:VAL:CG1	1:D:2417:LEU:HD23	2.24	0.65
1:D:2719:LEU:C	1:D:2719:LEU:HD12	2.20	0.65
1:C:510:MET:HG2	1:C:515:ILE:HD12	1.73	0.65
1:B:2276:TRP:CA	1:B:2368:PHE:CB	2.75	0.65
1:A:2245:LEU:HD12	1:A:2383:TYR:CD2	2.32	0.65
1:A:2276:TRP:CA	1:A:2368:PHE:HB3	2.26	0.65
1:A:2379:PHE:CE2	1:A:2392:PHE:CZ	2.84	0.65
1:A:2420:LEU:HD13	1:A:2420:LEU:O	1.97	0.65
1:C:2276:TRP:CA	1:C:2368:PHE:HB3	2.26	0.65
1:B:392:HIS:ND1	1:B:397:THR:CA	2.51	0.65
1:B:2719:LEU:HD12	1:B:2719:LEU:C	2.21	0.65
1:A:364:ILE:HG23	1:A:393:LEU:CD2	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1630:LEU:O	1:A:1634:GLU:N	2.30	0.65
1:A:2350:LEU:O	1:A:2354:LEU:HG	1.96	0.65
1:A:2410:GLU:O	1:A:2412:PHE:CA	2.43	0.65
1:D:2350:LEU:O	1:D:2354:LEU:HG	1.96	0.65
1:C:2266:LEU:O	1:C:2269:CYS:SG	2.54	0.65
1:C:2275:PHE:O	1:C:2278:SER:N	2.29	0.65
1:C:2387:VAL:HG13	1:C:2388:LEU:HD23	1.77	0.65
1:B:2410:GLU:O	1:B:2412:PHE:CA	2.43	0.65
1:B:2566:ARG:C	1:B:2566:ARG:HD3	2.22	0.65
1:A:1198:ARG:O	1:A:1199:LYS:C	2.38	0.65
1:D:2245:LEU:HD12	1:D:2383:TYR:CD2	2.32	0.65
1:D:2458:VAL:CG1	1:D:2459:GLY:H	2.10	0.65
1:C:2420:LEU:O	1:C:2420:LEU:HD13	1.97	0.65
1:B:2350:LEU:O	1:B:2354:LEU:HG	1.96	0.65
1:B:2379:PHE:CE2	1:B:2392:PHE:CZ	2.84	0.65
1:B:2528:CYS:SG	1:B:2529:GLU:N	2.69	0.65
1:B:2580:ILE:O	1:B:2584:LEU:HD23	1.97	0.65
1:B:2736:LEU:CD2	1:C:364:ILE:CD1	2.74	0.65
1:C:1198:ARG:O	1:C:1199:LYS:C	2.38	0.65
1:B:223:PHE:HB2	1:B:294:GLY:HA2	1.78	0.65
1:B:2729:GLN:HA	1:B:2729:GLN:NE2	2.12	0.65
1:D:461:GLU:HG2	1:D:525:ALA:O	1.96	0.65
1:D:538:LEU:CD2	1:D:586:GLY:C	2.31	0.65
1:C:518:GLN:HA	1:C:518:GLN:NE2	2.11	0.65
1:C:2276:TRP:CA	1:C:2368:PHE:CB	2.75	0.65
1:B:518:GLN:HA	1:B:518:GLN:NE2	2.11	0.65
1:B:2266:LEU:O	1:B:2269:CYS:SG	2.54	0.65
1:B:2408:VAL:HG11	1:B:2412:PHE:CD2	2.27	0.65
1:B:2609:THR:HA	1:B:2618:ARG:HE	1.58	0.65
1:D:2188:PHE:O	1:D:2188:PHE:HD1	1.80	0.65
1:C:461:GLU:HG2	1:C:525:ALA:O	1.96	0.65
1:C:2188:PHE:O	1:C:2191:LYS:CB	2.40	0.65
1:B:2188:PHE:O	1:B:2188:PHE:HD1	1.80	0.64
1:D:364:ILE:HG23	1:D:393:LEU:CD2	2.27	0.64
1:D:2189:TYR:C	1:D:2191:LYS:N	2.55	0.64
1:D:2275:PHE:O	1:D:2278:SER:N	2.29	0.64
1:D:2292:ALA:HB2	1:C:2453:TYR:HH	1.62	0.64
1:C:364:ILE:CG2	1:C:393:LEU:HD21	2.25	0.64
1:B:364:ILE:HG23	1:B:393:LEU:CD2	2.27	0.64
1:B:2410:GLU:HB2	1:B:2413:TYR:HB2	1.78	0.64
1:A:1198:ARG:C	1:A:1200:GLN:N	2.47	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2188:PHE:O	1:A:2188:PHE:HD1	1.81	0.64
1:D:391:ARG:HD3	1:D:396:ASN:CB	2.24	0.64
1:D:518:GLN:NE2	1:D:518:GLN:HA	2.11	0.64
1:D:2240:ILE:HD13	1:D:2672:LEU:HD12	1.67	0.64
1:D:2545:SER:O	1:D:2547:GLY:N	2.27	0.64
1:C:2188:PHE:O	1:C:2188:PHE:HD1	1.81	0.64
1:C:2227:ILE:HG21	1:C:2638:MET:HE2	1.77	0.64
1:C:2245:LEU:HD12	1:C:2383:TYR:CD2	2.32	0.64
1:B:1630:LEU:O	1:B:1634:GLU:N	2.30	0.64
1:A:2189:TYR:C	1:A:2191:LYS:N	2.55	0.64
1:A:2285:VAL:CG1	1:A:2417:LEU:HD23	2.24	0.64
1:A:2712:LEU:HD12	1:A:2712:LEU:O	1.95	0.64
1:D:2276:TRP:CA	1:D:2368:PHE:CB	2.75	0.64
1:D:2405:GLY:HA2	1:D:2408:VAL:HG12	1.80	0.64
1:C:2528:CYS:SG	1:C:2529:GLU:N	2.69	0.64
1:C:2580:ILE:O	1:C:2584:LEU:HD23	1.97	0.64
1:B:391:ARG:HD3	1:B:396:ASN:CB	2.25	0.64
1:C:2143:GLU:H	1:C:2651:LYS:HB3	0.81	0.64
1:C:2285:VAL:CG1	1:C:2417:LEU:HD23	2.24	0.64
1:C:2405:GLY:HA2	1:C:2408:VAL:HG12	1.80	0.64
1:B:2420:LEU:O	1:B:2420:LEU:HD13	1.97	0.64
1:D:223:PHE:HB2	1:D:294:GLY:HA2	1.78	0.64
1:D:1198:ARG:O	1:D:1199:LYS:C	2.38	0.64
1:D:2243:PHE:CE1	1:D:2612:PHE:HZ	2.07	0.64
1:C:364:ILE:HG23	1:C:393:LEU:CD2	2.27	0.64
1:C:2269:CYS:O	1:C:2371:SER:CB	2.46	0.64
1:C:2410:GLU:HB2	1:C:2413:TYR:HB2	1.78	0.64
1:C:2624:LYS:HA	1:C:2624:LYS:CE	2.25	0.64
1:B:2732:ARG:HH22	1:B:2736:LEU:HB2	1.62	0.64
1:B:2736:LEU:CD2	1:C:364:ILE:HD13	2.28	0.64
1:A:2227:ILE:HG21	1:A:2638:MET:HE2	1.77	0.64
1:A:2566:ARG:C	1:A:2566:ARG:HD3	2.22	0.64
1:D:2580:ILE:O	1:D:2584:LEU:HD23	1.97	0.64
1:D:2618:ARG:HD2	1:D:2628:PHE:HZ	0.69	0.64
1:C:392:HIS:ND1	1:C:397:THR:CA	2.51	0.64
1:B:461:GLU:HG2	1:B:525:ALA:O	1.96	0.64
1:B:2285:VAL:CG1	1:B:2417:LEU:HD23	2.24	0.64
1:A:2266:LEU:O	1:A:2269:CYS:SG	2.54	0.64
1:D:2269:CYS:O	1:D:2371:SER:CB	2.46	0.64
1:D:2420:LEU:O	1:D:2420:LEU:HD13	1.97	0.64
1:C:223:PHE:HB2	1:C:294:GLY:HA2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:391:ARG:HD3	1:C:396:ASN:CB	2.24	0.64
1:C:2458:VAL:CG1	1:C:2459:GLY:H	2.10	0.64
1:B:2580:ILE:O	1:B:2584:LEU:HG	1.98	0.64
1:B:2736:LEU:O	1:C:364:ILE:CG1	2.38	0.64
1:A:2705:THR:CA	1:A:2708:LEU:HD21	2.15	0.64
1:D:538:LEU:HD11	1:D:585:ILE:O	1.98	0.64
1:D:2729:GLN:HA	1:D:2729:GLN:NE2	2.12	0.64
1:C:2189:TYR:C	1:C:2191:LYS:N	2.55	0.64
1:C:2580:ILE:O	1:C:2584:LEU:HG	1.98	0.64
1:B:2232:GLU:HB2	1:B:2242:ASP:OD2	1.92	0.64
1:A:2458:VAL:CG1	1:A:2459:GLY:H	2.10	0.64
1:D:2143:GLU:H	1:D:2651:LYS:HB3	0.81	0.64
1:B:2398:TYR:HE1	1:B:2416:LEU:HD21	1.52	0.63
1:B:2405:GLY:HA2	1:B:2408:VAL:HG12	1.79	0.63
1:D:2345:ILE:CA	1:D:2353:THR:CG2	2.76	0.63
1:D:2732:ARG:HH22	1:D:2736:LEU:HB2	1.62	0.63
1:C:391:ARG:HG3	1:C:396:ASN:C	2.24	0.63
1:C:1630:LEU:O	1:C:1634:GLU:N	2.30	0.63
1:D:364:ILE:HG21	1:C:2737:GLY:CA	2.27	0.63
1:D:2369:LEU:HD22	1:D:2369:LEU:O	1.98	0.63
1:B:2269:CYS:O	1:B:2371:SER:CB	2.46	0.63
1:B:2275:PHE:CZ	1:B:2367:ILE:HB	2.28	0.63
1:A:461:GLU:HG2	1:A:525:ALA:O	1.96	0.63
1:A:2699:GLN:OE1	1:D:2700:GLU:CB	2.46	0.63
1:B:538:LEU:HD11	1:B:585:ILE:O	1.98	0.63
1:B:2350:LEU:C	1:B:2352:PRO:CD	2.54	0.63
1:B:2350:LEU:O	1:B:2353:THR:OG1	2.17	0.63
1:B:2369:LEU:HD22	1:B:2369:LEU:O	1.98	0.63
1:B:2736:LEU:HD23	1:C:364:ILE:CD1	2.27	0.63
1:A:2369:LEU:HD22	1:A:2369:LEU:O	1.98	0.63
1:A:2410:GLU:OE1	1:A:2411:PHE:CA	2.47	0.63
1:A:2580:ILE:O	1:A:2584:LEU:HG	1.98	0.63
1:D:66:TYR:HB3	1:D:156:ASN:HB2	1.81	0.63
1:C:66:TYR:HB3	1:C:156:ASN:HB2	1.81	0.63
1:C:2369:LEU:HD22	1:C:2369:LEU:O	1.98	0.63
1:A:538:LEU:HD11	1:A:585:ILE:O	1.98	0.63
1:A:2732:ARG:HH22	1:A:2736:LEU:HB2	1.62	0.63
1:D:391:ARG:HG3	1:D:396:ASN:C	2.24	0.63
1:D:2288:ASN:OD1	1:D:2413:TYR:CB	2.40	0.63
1:D:2707:LYS:O	1:D:2711:ASN:CG	2.42	0.63
1:C:2624:LYS:NZ	1:C:2624:LYS:O	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:66:TYR:HB3	1:B:156:ASN:HB2	1.81	0.63
1:B:364:ILE:HD13	1:A:2736:LEU:CD2	2.28	0.63
1:B:520:PHE:CE2	1:B:576:LYS:NZ	2.66	0.63
1:B:2143:GLU:H	1:B:2651:LYS:HB3	0.81	0.63
1:D:2231:THR:CG2	1:D:2232:GLU:N	1.84	0.63
1:C:2729:GLN:NE2	1:C:2729:GLN:HA	2.12	0.63
1:A:2580:ILE:O	1:A:2584:LEU:HD23	1.97	0.63
1:A:2707:LYS:O	1:A:2711:ASN:CG	2.42	0.63
1:D:2566:ARG:HD3	1:D:2566:ARG:O	1.99	0.63
1:D:2706:MET:CB	1:C:2707:LYS:CG	2.76	0.63
1:C:2618:ARG:HD2	1:C:2628:PHE:HZ	0.68	0.63
1:B:510:MET:HG2	1:B:515:ILE:HD12	1.73	0.63
1:B:2458:VAL:CG1	1:B:2459:GLY:H	2.10	0.63
1:B:2566:ARG:HD3	1:B:2566:ARG:O	1.99	0.63
1:A:2281:PHE:CA	1:A:2420:LEU:CD2	2.40	0.63
1:A:2405:GLY:HA2	1:A:2408:VAL:HG12	1.80	0.63
1:C:530:CYS:SG	1:C:537:ARG:HA	2.39	0.63
1:C:2368:PHE:HZ	1:C:2398:TYR:CE2	2.15	0.63
1:B:2189:TYR:C	1:B:2191:LYS:N	2.55	0.63
1:B:2293:PHE:HD1	1:B:2293:PHE:O	1.82	0.63
1:A:69:GLN:NE2	1:A:99:GLU:OE2	2.32	0.63
1:A:530:CYS:SG	1:A:537:ARG:HA	2.39	0.63
1:B:530:CYS:SG	1:B:537:ARG:HA	2.39	0.62
1:B:2345:ILE:CA	1:B:2353:THR:CG2	2.76	0.62
1:B:2410:GLU:OE1	1:B:2411:PHE:CA	2.47	0.62
1:B:2721:ASP:N	1:B:2721:ASP:OD2	2.14	0.62
1:A:391:ARG:HG3	1:A:396:ASN:C	2.24	0.62
1:A:2269:CYS:O	1:A:2371:SER:CB	2.46	0.62
1:A:2350:LEU:O	1:A:2353:THR:OG1	2.17	0.62
1:D:69:GLN:NE2	1:D:99:GLU:OE2	2.32	0.62
1:D:515:ILE:HG13	1:D:516:LEU:HD22	1.81	0.62
1:D:2218:PHE:N	1:D:2254:MET:CE	2.62	0.62
1:D:2293:PHE:O	1:D:2293:PHE:HD1	1.82	0.62
1:D:2350:LEU:O	1:D:2353:THR:OG1	2.17	0.62
1:D:2397:LEU:HD22	1:D:2397:LEU:N	2.14	0.62
1:D:2706:MET:HB2	1:C:2711:ASN:HD21	1.63	0.62
1:C:516:LEU:H	1:C:516:LEU:CD2	1.94	0.62
1:C:538:LEU:HD11	1:C:585:ILE:O	1.98	0.62
1:C:2272:ASN:ND2	1:C:2367:ILE:HG22	2.14	0.62
1:B:515:ILE:HG13	1:B:516:LEU:HD22	1.81	0.62
1:B:2218:PHE:N	1:B:2254:MET:CE	2.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:66:TYR:HB3	1:A:156:ASN:HB2	1.81	0.62
1:A:2293:PHE:O	1:A:2293:PHE:HD1	1.82	0.62
1:A:2400:LEU:HD23	1:A:2400:LEU:C	2.24	0.62
1:D:530:CYS:SG	1:D:537:ARG:HA	2.39	0.62
1:D:2580:ILE:O	1:D:2584:LEU:HG	1.98	0.62
1:C:514:ASN:O	1:C:518:GLN:HG2	1.99	0.62
1:C:2293:PHE:O	1:C:2293:PHE:HD1	1.82	0.62
1:C:2345:ILE:CA	1:C:2353:THR:CG2	2.76	0.62
1:C:2566:ARG:HD3	1:C:2566:ARG:O	1.99	0.62
1:A:2143:GLU:H	1:A:2651:LYS:HB3	0.81	0.62
1:A:2368:PHE:O	1:A:2371:SER:N	2.32	0.62
1:A:2629:GLU:OE2	1:D:2236:GLN:NE2	2.30	0.62
1:A:2706:MET:CB	1:D:2707:LYS:CG	2.77	0.62
1:D:2630:GLU:N	1:D:2630:GLU:OE1	2.33	0.62
1:C:2410:GLU:OE1	1:C:2411:PHE:CA	2.47	0.62
1:A:2411:PHE:HE2	1:A:2412:PHE:CE2	2.17	0.62
1:D:520:PHE:CE2	1:D:576:LYS:NZ	2.66	0.62
1:C:2411:PHE:HE2	1:C:2412:PHE:CE2	2.17	0.62
1:C:2732:ARG:HH22	1:C:2736:LEU:HB2	1.62	0.62
1:B:514:ASN:O	1:B:518:GLN:HG2	2.00	0.62
1:A:364:ILE:CD1	1:D:2736:LEU:C	2.72	0.62
1:C:2400:LEU:HD23	1:C:2400:LEU:C	2.24	0.62
1:B:69:GLN:NE2	1:B:99:GLU:OE2	2.32	0.62
1:B:391:ARG:HG3	1:B:396:ASN:C	2.24	0.62
1:B:2707:LYS:O	1:B:2711:ASN:CG	2.42	0.62
1:D:553:CYS:C	1:D:557:TYR:HD2	2.07	0.62
1:D:2227:ILE:HG21	1:D:2638:MET:HE2	1.77	0.62
1:D:2356:LEU:C	1:D:2356:LEU:HD12	2.25	0.62
1:D:2699:GLN:OE1	1:C:2700:GLU:HG2	1.93	0.62
1:C:2249:ASP:CG	1:C:2382:GLY:HA3	2.25	0.62
1:B:2272:ASN:ND2	1:B:2367:ILE:HG22	2.14	0.62
1:B:2698:LEU:H	1:B:2698:LEU:CD2	2.11	0.62
1:A:298:TYR:O	1:A:299:TRP:HB3	2.00	0.62
1:A:553:CYS:C	1:A:557:TYR:HD2	2.07	0.62
1:A:2275:PHE:CZ	1:A:2367:ILE:HB	2.28	0.62
1:A:2566:ARG:HD3	1:A:2566:ARG:O	1.99	0.62
1:D:364:ILE:CD1	1:C:2736:LEU:HD23	2.28	0.62
1:D:514:ASN:O	1:D:518:GLN:HG2	2.00	0.62
1:D:557:TYR:CE1	1:D:590:LEU:CA	2.83	0.62
1:C:2218:PHE:N	1:C:2254:MET:CE	2.62	0.62
1:C:2350:LEU:O	1:C:2353:THR:OG1	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2368:PHE:O	1:C:2371:SER:N	2.32	0.62
1:B:2243:PHE:HZ	1:B:2612:PHE:CE2	1.76	0.62
1:B:2356:LEU:C	1:B:2356:LEU:HD12	2.25	0.62
1:B:2368:PHE:O	1:B:2371:SER:N	2.32	0.62
1:B:2397:LEU:HD22	1:B:2397:LEU:N	2.14	0.62
1:B:2400:LEU:HD23	1:B:2400:LEU:C	2.24	0.62
1:B:2423:ARG:O	1:B:2424:GLU:CG	2.48	0.62
1:B:2707:LYS:HG3	1:C:2706:MET:SD	2.39	0.62
1:A:2397:LEU:HD22	1:A:2397:LEU:N	2.14	0.62
1:A:2729:GLN:NE2	1:A:2729:GLN:HA	2.12	0.62
1:D:2249:ASP:CG	1:D:2382:GLY:HA3	2.25	0.62
1:C:2398:TYR:HE1	1:C:2416:LEU:HD21	1.52	0.62
1:C:2707:LYS:O	1:C:2711:ASN:CG	2.42	0.62
1:B:2618:ARG:HG2	1:B:2628:PHE:CZ	2.22	0.62
1:A:391:ARG:HD3	1:A:396:ASN:CB	2.24	0.62
1:A:2218:PHE:N	1:A:2254:MET:CE	2.62	0.62
1:D:302:LEU:HD13	1:C:2733:ILE:HB	1.80	0.62
1:D:461:GLU:CG	1:D:525:ALA:HB1	2.29	0.62
1:D:2400:LEU:HD23	1:D:2400:LEU:C	2.24	0.62
1:C:2388:LEU:CD2	1:C:2388:LEU:H	1.93	0.62
1:B:302:LEU:HD13	1:A:2733:ILE:HB	1.81	0.62
1:B:538:LEU:CD2	1:B:586:GLY:C	2.31	0.62
1:B:2245:LEU:HD12	1:B:2383:TYR:CE2	2.35	0.62
1:A:557:TYR:CE1	1:A:590:LEU:CA	2.83	0.62
1:D:63:MET:O	1:D:64:ASN:CG	2.43	0.62
1:D:2618:ARG:HG2	1:D:2628:PHE:CZ	2.22	0.62
1:C:515:ILE:HG13	1:C:516:LEU:HD22	1.81	0.62
1:C:2356:LEU:C	1:C:2356:LEU:HD12	2.25	0.62
1:C:2397:LEU:HD22	1:C:2397:LEU:N	2.14	0.62
1:A:514:ASN:O	1:A:518:GLN:HG2	1.99	0.61
1:A:2356:LEU:C	1:A:2356:LEU:HD12	2.25	0.61
1:D:2279:ILE:HD11	1:D:2364:ASN:CB	1.92	0.61
1:C:520:PHE:CE2	1:C:576:LYS:NZ	2.66	0.61
1:C:2698:LEU:H	1:C:2698:LEU:CD2	2.11	0.61
1:A:461:GLU:CG	1:A:525:ALA:HB1	2.29	0.61
1:A:2345:ILE:CA	1:A:2353:THR:CG2	2.76	0.61
1:A:2423:ARG:O	1:A:2424:GLU:CG	2.48	0.61
1:D:298:TYR:O	1:D:299:TRP:HB3	2.00	0.61
1:D:2368:PHE:O	1:D:2371:SER:N	2.33	0.61
1:C:69:GLN:NE2	1:C:99:GLU:OE2	2.32	0.61
1:C:2245:LEU:HD12	1:C:2383:TYR:CE2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:461:GLU:CG	1:B:525:ALA:HB1	2.29	0.61
1:A:2245:LEU:HD12	1:A:2383:TYR:CE2	2.35	0.61
1:A:2545:SER:O	1:A:2547:GLY:N	2.27	0.61
1:A:2630:GLU:N	1:A:2630:GLU:OE1	2.33	0.61
1:C:461:GLU:CG	1:C:525:ALA:HB1	2.29	0.61
1:C:557:TYR:CE1	1:C:590:LEU:CA	2.83	0.61
1:B:2452:VAL:O	1:B:2456:SER:HB3	2.01	0.61
1:B:2707:LYS:CG	1:C:2706:MET:CB	2.79	0.61
1:A:515:ILE:HG13	1:A:516:LEU:HD22	1.81	0.61
1:A:2240:ILE:HA	1:A:2243:PHE:HD2	1.66	0.61
1:D:2706:MET:CG	1:C:2707:LYS:CE	2.66	0.61
1:C:2423:ARG:O	1:C:2424:GLU:CG	2.48	0.61
1:B:1978:GLU:O	1:B:1979:ASN:C	2.43	0.61
1:B:2451:LEU:HA	1:B:2454:LEU:CD2	2.28	0.61
1:A:2232:GLU:HB2	1:A:2242:ASP:OD2	1.92	0.61
1:A:2624:LYS:HA	1:A:2624:LYS:CE	2.25	0.61
1:D:2699:GLN:HB2	1:C:2700:GLU:CD	2.25	0.61
1:A:554:ARG:HH22	1:A:588:ASP:CA	2.14	0.61
1:A:2272:ASN:HD22	1:A:2367:ILE:HG22	1.64	0.61
1:A:2452:VAL:O	1:A:2456:SER:HB3	2.01	0.61
1:A:2622:ASP:HB3	1:A:2628:PHE:CD1	2.36	0.61
1:D:554:ARG:HH22	1:D:588:ASP:CA	2.14	0.61
1:D:2411:PHE:HE2	1:D:2412:PHE:CE2	2.17	0.61
1:D:2708:LEU:CD1	1:D:2708:LEU:H	2.12	0.61
1:B:2622:ASP:HB3	1:B:2628:PHE:CD1	2.36	0.61
1:A:2249:ASP:OD1	1:A:2382:GLY:CA	2.41	0.61
1:D:553:CYS:C	1:D:557:TYR:CD2	2.79	0.61
1:D:2245:LEU:HD12	1:D:2383:TYR:CE2	2.35	0.61
1:C:72:PHE:CD1	1:C:92:LEU:HD13	2.28	0.61
1:C:2707:LYS:HB2	1:C:2707:LYS:HZ2	1.65	0.61
1:B:364:ILE:CD1	1:A:2736:LEU:CD2	2.78	0.61
1:B:554:ARG:HH22	1:B:588:ASP:CA	2.14	0.61
1:B:2630:GLU:OE1	1:B:2630:GLU:N	2.33	0.61
1:B:2705:THR:CA	1:B:2708:LEU:HD21	2.15	0.61
1:A:2345:ILE:CB	1:A:2353:THR:HG21	2.31	0.61
1:A:2451:LEU:HA	1:A:2454:LEU:CD2	2.28	0.61
1:D:2272:ASN:ND2	1:D:2367:ILE:HG22	2.14	0.61
1:D:2423:ARG:O	1:D:2424:GLU:CG	2.48	0.61
1:C:15:CYS:SG	1:C:16:SER:N	2.74	0.61
1:C:553:CYS:C	1:C:557:TYR:HD2	2.07	0.61
1:C:585:ILE:O	1:C:585:ILE:HG22	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2622:ASP:HB3	1:C:2628:PHE:CD1	2.36	0.61
1:B:557:TYR:CE1	1:B:590:LEU:CA	2.83	0.61
1:A:302:LEU:HA	1:A:368:PHE:O	2.01	0.61
1:A:2220:THR:CG2	1:A:2223:SER:H	2.14	0.61
1:D:2707:LYS:HB2	1:D:2707:LYS:HZ2	1.64	0.61
1:C:2220:THR:CG2	1:C:2223:SER:H	2.14	0.61
1:B:2216:CYS:SG	1:B:2646:VAL:HG21	2.41	0.61
1:B:2405:GLY:HA2	1:B:2412:PHE:HB2	1.83	0.61
1:A:553:CYS:C	1:A:557:TYR:CD2	2.79	0.61
1:A:2216:CYS:SG	1:A:2646:VAL:HG21	2.41	0.61
1:A:2706:MET:SD	1:D:2707:LYS:HG3	2.41	0.61
1:D:2220:THR:CG2	1:D:2223:SER:H	2.14	0.61
1:D:2698:LEU:H	1:D:2698:LEU:CD2	2.11	0.61
1:C:510:MET:HA	1:C:515:ILE:HD11	1.83	0.61
1:C:554:ARG:HH22	1:C:588:ASP:CA	2.14	0.61
1:C:2610:THR:OG1	1:C:2616:LEU:O	2.19	0.61
1:B:553:CYS:C	1:B:557:TYR:CD2	2.79	0.60
1:B:553:CYS:C	1:B:557:TYR:HD2	2.07	0.60
1:B:1198:ARG:O	1:B:1199:LYS:C	2.38	0.60
1:B:2272:ASN:HD22	1:B:2367:ILE:HG22	1.64	0.60
1:B:2580:ILE:O	1:B:2584:LEU:CD2	2.49	0.60
1:B:2707:LYS:HZ2	1:B:2707:LYS:HB2	1.65	0.60
1:B:2730:LYS:HZ3	1:B:2730:LYS:C	2.10	0.60
1:A:63:MET:O	1:A:64:ASN:CG	2.43	0.60
1:A:1978:GLU:O	1:A:1979:ASN:C	2.43	0.60
1:A:2698:LEU:H	1:A:2698:LEU:CD2	2.11	0.60
1:D:15:CYS:SG	1:D:16:SER:N	2.74	0.60
1:D:302:LEU:HA	1:D:368:PHE:O	2.01	0.60
1:D:2240:ILE:HA	1:D:2243:PHE:HD2	1.66	0.60
1:D:2272:ASN:HD22	1:D:2367:ILE:HG22	1.64	0.60
1:D:2410:GLU:OE1	1:D:2411:PHE:CA	2.47	0.60
1:D:2580:ILE:O	1:D:2584:LEU:CD2	2.49	0.60
1:C:2721:ASP:N	1:C:2721:ASP:OD2	2.14	0.60
1:B:736:GLN:O	1:B:739:LEU:N	2.34	0.60
1:D:2622:ASP:HB3	1:D:2628:PHE:CD1	2.36	0.60
1:B:585:ILE:O	1:B:585:ILE:HG22	2.01	0.60
1:B:2279:ILE:HD11	1:B:2364:ASN:CB	1.92	0.60
1:B:2624:LYS:CE	1:B:2624:LYS:HA	2.25	0.60
1:A:2345:ILE:HB	1:A:2353:THR:CB	2.29	0.60
1:D:1978:GLU:O	1:D:1979:ASN:C	2.43	0.60
1:D:2624:LYS:HA	1:D:2624:LYS:CE	2.25	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:63:MET:O	1:C:64:ASN:CG	2.43	0.60
1:C:2216:CYS:SG	1:C:2646:VAL:HG21	2.41	0.60
1:C:2240:ILE:HA	1:C:2243:PHE:HD2	1.66	0.60
1:B:2249:ASP:CG	1:B:2382:GLY:HA3	2.25	0.60
1:A:379:ASP:CG	1:D:2722:GLN:CG	2.74	0.60
1:A:736:GLN:O	1:A:739:LEU:N	2.34	0.60
1:A:2249:ASP:CG	1:A:2382:GLY:HA3	2.25	0.60
1:D:736:GLN:O	1:D:739:LEU:N	2.34	0.60
1:D:2350:LEU:O	1:D:2354:LEU:CD2	2.49	0.60
1:C:298:TYR:O	1:C:299:TRP:HB3	2.00	0.60
1:C:1978:GLU:O	1:C:1979:ASN:C	2.43	0.60
1:C:2188:PHE:O	1:C:2191:LYS:N	2.34	0.60
1:C:2350:LEU:O	1:C:2354:LEU:CD2	2.49	0.60
1:B:63:MET:O	1:B:64:ASN:CG	2.43	0.60
1:B:510:MET:HA	1:B:515:ILE:HD11	1.83	0.60
1:B:2563:PHE:O	1:B:2567:VAL:HG22	2.01	0.60
1:A:585:ILE:O	1:A:585:ILE:HG22	2.01	0.60
1:A:2350:LEU:O	1:A:2354:LEU:CD2	2.49	0.60
1:A:2579:ILE:HG22	1:A:2583:ASN:ND2	2.17	0.60
1:A:2580:ILE:O	1:A:2584:LEU:CD2	2.49	0.60
1:C:461:GLU:CD	1:C:528:THR:HG1	2.06	0.60
1:C:2579:ILE:HG22	1:C:2583:ASN:ND2	2.17	0.60
1:B:528:THR:O	1:B:532:ASP:N	2.34	0.60
1:B:2240:ILE:HA	1:B:2243:PHE:HD2	1.66	0.60
1:A:298:TYR:O	1:A:299:TRP:CB	2.50	0.60
1:A:2243:PHE:HZ	1:A:2612:PHE:CE2	1.76	0.60
1:A:2345:ILE:HD13	1:A:2353:THR:CG2	2.31	0.60
1:A:2350:LEU:N	1:A:2352:PRO:HD2	2.17	0.60
1:D:2345:ILE:HD13	1:D:2353:THR:CG2	2.31	0.60
1:C:2272:ASN:HD22	1:C:2367:ILE:HG22	1.64	0.60
1:C:2630:GLU:OE1	1:C:2630:GLU:N	2.33	0.60
1:B:298:TYR:O	1:B:299:TRP:CB	2.50	0.60
1:B:2188:PHE:O	1:B:2191:LYS:N	2.34	0.60
1:B:2694:GLU:O	1:B:2698:LEU:HD23	2.02	0.60
1:D:2276:TRP:HH2	1:D:2395:HIS:HB2	1.67	0.60
1:C:302:LEU:HA	1:C:368:PHE:O	2.01	0.60
1:C:2580:ILE:O	1:C:2584:LEU:CG	2.50	0.60
1:C:2630:GLU:O	1:C:2634:GLU:N	2.35	0.60
1:B:2220:THR:CG2	1:B:2223:SER:H	2.14	0.60
1:B:2350:LEU:O	1:B:2354:LEU:CD2	2.49	0.60
1:B:2579:ILE:HG22	1:B:2583:ASN:ND2	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2279:ILE:HD11	1:A:2364:ASN:CB	1.92	0.60
1:D:585:ILE:O	1:D:585:ILE:HG22	2.01	0.60
1:D:2281:PHE:CA	1:D:2420:LEU:CD2	2.40	0.60
1:D:2580:ILE:O	1:D:2584:LEU:CG	2.50	0.60
1:C:736:GLN:O	1:C:739:LEU:N	2.34	0.60
1:C:2405:GLY:HA2	1:C:2412:PHE:HB2	1.83	0.60
1:B:481:VAL:HB	1:B:495:LEU:HD21	1.84	0.60
1:B:2249:ASP:OD1	1:B:2382:GLY:CA	2.41	0.60
1:B:2345:ILE:CD1	1:B:2350:LEU:CD1	2.80	0.60
1:A:28:SER:OG	1:A:56:CYS:SG	2.60	0.60
1:A:553:CYS:CB	1:A:557:TYR:CE2	2.69	0.60
1:D:461:GLU:HG3	1:D:525:ALA:HB1	1.84	0.60
1:D:2345:ILE:CD1	1:D:2350:LEU:CD1	2.80	0.60
1:D:2579:ILE:HG22	1:D:2583:ASN:ND2	2.17	0.60
1:C:2345:ILE:CD1	1:C:2350:LEU:CD1	2.80	0.60
1:C:2452:VAL:O	1:C:2456:SER:HB3	2.01	0.60
1:B:302:LEU:HA	1:B:368:PHE:O	2.01	0.60
1:B:2276:TRP:HH2	1:B:2395:HIS:HB2	1.67	0.60
1:A:15:CYS:SG	1:A:16:SER:N	2.74	0.60
1:A:2630:GLU:O	1:A:2634:GLU:N	2.35	0.60
1:D:2350:LEU:N	1:D:2352:PRO:HD2	2.17	0.60
1:B:526:PRO:HB3	1:B:549:PHE:CD1	2.37	0.59
1:A:2694:GLU:O	1:A:2698:LEU:HD23	2.02	0.59
1:D:2216:CYS:SG	1:D:2646:VAL:HG21	2.41	0.59
1:B:2345:ILE:HB	1:B:2353:THR:CB	2.30	0.59
1:B:2610:THR:OG1	1:B:2616:LEU:O	2.19	0.59
1:A:2345:ILE:CD1	1:A:2350:LEU:CD1	2.80	0.59
1:A:2699:GLN:CB	1:D:2700:GLU:CD	2.74	0.59
1:D:526:PRO:HB3	1:D:549:PHE:CD1	2.37	0.59
1:D:2452:VAL:O	1:D:2456:SER:HB3	2.01	0.59
1:D:2563:PHE:O	1:D:2567:VAL:HG22	2.01	0.59
1:C:298:TYR:O	1:C:299:TRP:CB	2.50	0.59
1:C:461:GLU:HG3	1:C:525:ALA:HB1	1.83	0.59
1:C:553:CYS:C	1:C:557:TYR:CD2	2.79	0.59
1:C:2243:PHE:HE1	1:C:2612:PHE:CZ	2.04	0.59
1:C:2276:TRP:HH2	1:C:2395:HIS:HB2	1.67	0.59
1:D:298:TYR:O	1:D:299:TRP:CB	2.50	0.59
1:D:481:VAL:HB	1:D:495:LEU:HD21	1.84	0.59
1:D:2345:ILE:HB	1:D:2353:THR:CB	2.30	0.59
1:C:2345:ILE:HD13	1:C:2353:THR:CG2	2.31	0.59
1:B:15:CYS:SG	1:B:16:SER:N	2.74	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:28:SER:OG	1:B:56:CYS:SG	2.60	0.59
1:B:2276:TRP:HA	1:B:2368:PHE:CD2	2.37	0.59
1:B:2345:ILE:CB	1:B:2353:THR:HG21	2.31	0.59
1:B:2350:LEU:N	1:B:2352:PRO:HD2	2.17	0.59
1:A:251:LEU:HB3	1:A:262:VAL:HA	1.85	0.59
1:A:2276:TRP:HA	1:A:2368:PHE:CD2	2.37	0.59
1:D:2249:ASP:OD1	1:D:2382:GLY:CA	2.41	0.59
1:C:28:SER:OG	1:C:56:CYS:SG	2.60	0.59
1:C:2276:TRP:HA	1:C:2368:PHE:CD2	2.37	0.59
1:C:2404:MET:HB3	1:C:2412:PHE:CD2	2.38	0.59
1:C:2580:ILE:O	1:C:2584:LEU:CD2	2.49	0.59
1:A:2580:ILE:O	1:A:2584:LEU:CG	2.50	0.59
1:D:63:MET:CA	1:D:64:ASN:OD1	2.51	0.59
1:D:554:ARG:HH22	1:D:588:ASP:C	2.11	0.59
1:D:2220:THR:HG21	1:D:2222:GLU:HG3	1.85	0.59
1:D:2276:TRP:HA	1:D:2368:PHE:CD2	2.37	0.59
1:D:2404:MET:HB3	1:D:2412:PHE:CD2	2.38	0.59
1:B:529:ASP:CG	1:B:541:LEU:HD21	2.28	0.59
1:B:2345:ILE:HD13	1:B:2353:THR:CG2	2.31	0.59
1:A:529:ASP:CG	1:A:541:LEU:HD21	2.28	0.59
1:A:2220:THR:HG21	1:A:2222:GLU:HG3	1.85	0.59
1:A:2404:MET:HB3	1:A:2412:PHE:CD2	2.38	0.59
1:D:461:GLU:HG3	1:D:525:ALA:CB	2.32	0.59
1:D:510:MET:HA	1:D:515:ILE:HD11	1.83	0.59
1:D:2349:GLY:C	1:D:2352:PRO:CD	2.76	0.59
1:B:516:LEU:H	1:B:516:LEU:CD2	1.94	0.59
1:B:2404:MET:HB3	1:B:2412:PHE:CD2	2.38	0.59
1:B:2695:LEU:CD2	1:B:2698:LEU:HD13	2.00	0.59
1:A:510:MET:HA	1:A:515:ILE:HD11	1.83	0.59
1:A:2349:GLY:C	1:A:2352:PRO:CD	2.76	0.59
1:A:2610:THR:OG1	1:A:2616:LEU:O	2.19	0.59
1:B:2231:THR:CG2	1:B:2232:GLU:N	1.84	0.59
1:A:2188:PHE:O	1:A:2191:LYS:N	2.34	0.59
1:A:2243:PHE:HE1	1:A:2612:PHE:CZ	2.04	0.59
1:C:481:VAL:HB	1:C:495:LEU:HD21	1.84	0.59
1:C:2349:GLY:C	1:C:2352:PRO:CD	2.76	0.59
1:C:2732:ARG:HH12	1:C:2736:LEU:HD22	1.68	0.59
1:B:298:TYR:O	1:B:299:TRP:HB3	2.00	0.59
1:B:2349:GLY:C	1:B:2352:PRO:CD	2.76	0.59
1:B:2580:ILE:O	1:B:2584:LEU:CG	2.50	0.59
1:A:481:VAL:HB	1:A:495:LEU:HD21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2276:TRP:HH2	1:A:2395:HIS:HB2	1.67	0.59
1:A:2563:PHE:O	1:A:2567:VAL:HG22	2.01	0.59
1:D:28:SER:OG	1:D:56:CYS:SG	2.60	0.59
1:D:72:PHE:CD1	1:D:92:LEU:HD13	2.28	0.59
1:D:1613:ASP:O	1:D:1617:PRO:CA	2.51	0.59
1:D:2144:ASP:H	1:D:2651:LYS:CB	1.94	0.59
1:C:461:GLU:HG3	1:C:525:ALA:CB	2.32	0.59
1:C:553:CYS:CB	1:C:557:TYR:CE2	2.69	0.59
1:B:2732:ARG:HH12	1:B:2736:LEU:HD22	1.68	0.59
1:A:461:GLU:HG3	1:A:525:ALA:CB	2.32	0.59
1:A:2622:ASP:CB	1:A:2628:PHE:CD1	2.86	0.59
1:D:66:TYR:CA	1:D:156:ASN:ND2	2.55	0.59
1:C:1803:GLY:C	1:C:1805:SER:H	2.10	0.59
1:C:2232:GLU:HB2	1:C:2242:ASP:OD2	1.92	0.59
1:B:461:GLU:HG3	1:B:525:ALA:CB	2.32	0.58
1:B:2697:ASN:N	1:B:2698:LEU:HD23	2.18	0.58
1:A:392:HIS:ND1	1:A:397:THR:CA	2.51	0.58
1:A:2272:ASN:ND2	1:A:2367:ILE:HG22	2.14	0.58
1:D:251:LEU:HB3	1:D:262:VAL:HA	1.85	0.58
1:D:529:ASP:CG	1:D:541:LEU:HD21	2.28	0.58
1:C:2345:ILE:HB	1:C:2353:THR:CB	2.30	0.58
1:C:2415:LEU:HD23	1:C:2415:LEU:C	2.27	0.58
1:C:2697:ASN:N	1:C:2698:LEU:HD23	2.18	0.58
1:B:2276:TRP:CE2	1:B:2368:PHE:HE1	2.20	0.58
1:D:528:THR:O	1:D:532:ASP:N	2.34	0.58
1:C:526:PRO:HB3	1:C:549:PHE:CD1	2.37	0.58
1:C:529:ASP:CG	1:C:541:LEU:HD21	2.28	0.58
1:C:2563:PHE:O	1:C:2567:VAL:HG22	2.01	0.58
1:A:63:MET:CA	1:A:64:ASN:OD1	2.51	0.58
1:A:1613:ASP:O	1:A:1617:PRO:CA	2.51	0.58
1:D:76:ALA:O	1:D:78:PRO:CD	2.52	0.58
1:D:2288:ASN:ND2	1:D:2413:TYR:C	2.61	0.58
1:B:461:GLU:HG3	1:B:525:ALA:HB1	1.83	0.58
1:B:2220:THR:HG21	1:B:2222:GLU:HG3	1.85	0.58
1:A:2697:ASN:N	1:A:2698:LEU:HD23	2.18	0.58
1:C:554:ARG:HH22	1:C:588:ASP:C	2.11	0.58
1:C:1613:ASP:O	1:C:1617:PRO:CA	2.51	0.58
1:B:523:LEU:HD13	1:B:523:LEU:N	2.18	0.58
1:B:1613:ASP:O	1:B:1617:PRO:CA	2.51	0.58
1:B:2215:ILE:O	1:B:2254:MET:CG	2.52	0.58
1:B:2288:ASN:ND2	1:B:2413:TYR:C	2.61	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2454:LEU:HD23	1:B:2454:LEU:N	2.07	0.58
1:A:554:ARG:HH22	1:A:588:ASP:C	2.11	0.58
1:A:2404:MET:CB	1:A:2412:PHE:CE2	2.85	0.58
1:A:2405:GLY:HA2	1:A:2412:PHE:HB2	1.83	0.58
1:D:2215:ILE:O	1:D:2254:MET:CG	2.52	0.58
1:D:2630:GLU:O	1:D:2634:GLU:N	2.35	0.58
1:C:80:ALA:C	1:C:81:ASN:CG	2.71	0.58
1:C:2276:TRP:CE2	1:C:2368:PHE:HE1	2.20	0.58
1:C:2404:MET:CB	1:C:2412:PHE:CE2	2.85	0.58
1:B:530:CYS:O	1:B:540:GLU:OE1	2.22	0.58
1:A:530:CYS:O	1:A:540:GLU:OE1	2.22	0.58
1:A:2276:TRP:C	1:A:2276:TRP:CD1	2.82	0.58
1:D:2622:ASP:CB	1:D:2628:PHE:CD1	2.86	0.58
1:C:523:LEU:HD13	1:C:523:LEU:N	2.18	0.58
1:A:526:PRO:HB3	1:A:549:PHE:CD1	2.37	0.58
1:D:530:CYS:O	1:D:540:GLU:OE1	2.22	0.58
1:D:2405:GLY:HA2	1:D:2412:PHE:HB2	1.83	0.58
1:D:2694:GLU:O	1:D:2698:LEU:HD23	2.02	0.58
1:D:2697:ASN:N	1:D:2698:LEU:HD23	2.18	0.58
1:C:251:LEU:HB3	1:C:262:VAL:HA	1.85	0.58
1:B:554:ARG:HH22	1:B:588:ASP:C	2.11	0.58
1:B:2406:LEU:HB3	1:B:2407:PHE:CD2	2.39	0.58
1:B:2667:ILE:O	1:B:2670:ARG:NH1	2.37	0.58
1:A:461:GLU:HG3	1:A:525:ALA:HB1	1.83	0.58
1:A:2288:ASN:ND2	1:A:2413:TYR:C	2.61	0.58
1:A:2667:ILE:O	1:A:2670:ARG:NH1	2.37	0.58
1:D:2610:THR:OG1	1:D:2616:LEU:O	2.19	0.58
1:D:2732:ARG:HH12	1:D:2736:LEU:HD22	1.68	0.58
1:C:63:MET:CA	1:C:64:ASN:OD1	2.51	0.58
1:C:2220:THR:HG21	1:C:2222:GLU:HG3	1.85	0.58
1:C:2350:LEU:N	1:C:2352:PRO:HD2	2.17	0.58
1:C:2621:PHE:N	1:C:2621:PHE:CD1	2.71	0.58
1:C:2622:ASP:CB	1:C:2628:PHE:CD1	2.86	0.58
1:C:2694:GLU:O	1:C:2698:LEU:HD23	2.02	0.58
1:B:76:ALA:O	1:B:78:PRO:CD	2.52	0.58
1:A:523:LEU:HD13	1:A:523:LEU:N	2.18	0.58
1:A:2144:ASP:CA	1:A:2652:ASP:CB	2.81	0.58
1:A:2215:ILE:O	1:A:2254:MET:CG	2.52	0.58
1:A:2276:TRP:CE2	1:A:2368:PHE:HE1	2.20	0.58
1:A:2454:LEU:HD23	1:A:2454:LEU:N	2.07	0.58
1:D:2420:LEU:HD13	1:D:2420:LEU:C	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2548:GLY:HA3	1:D:2551:ASP:OD2	2.04	0.58
1:C:2215:ILE:O	1:C:2254:MET:CG	2.52	0.58
1:B:2423:ARG:HB3	1:B:2423:ARG:CZ	2.34	0.58
1:B:2622:ASP:CB	1:B:2628:PHE:CD1	2.86	0.58
1:A:2189:TYR:CD1	1:A:2189:TYR:C	2.82	0.58
1:A:2415:LEU:HD23	1:A:2415:LEU:C	2.27	0.58
1:A:2548:GLY:HA3	1:A:2551:ASP:OD2	2.04	0.58
1:D:523:LEU:HD13	1:D:523:LEU:N	2.18	0.58
1:D:547:ALA:O	1:D:551:HIS:ND1	2.37	0.58
1:D:2279:ILE:HD13	1:D:2364:ASN:CB	2.07	0.58
1:D:2423:ARG:HB3	1:D:2423:ARG:CZ	2.34	0.58
1:C:2406:LEU:HB3	1:C:2407:PHE:CD2	2.39	0.58
1:B:63:MET:CA	1:B:64:ASN:OD1	2.51	0.57
1:B:251:LEU:HB3	1:B:262:VAL:HA	1.85	0.57
1:B:1803:GLY:C	1:B:1805:SER:H	2.10	0.57
1:B:2624:LYS:NZ	1:B:2624:LYS:HA	2.19	0.57
1:A:547:ALA:O	1:A:551:HIS:ND1	2.37	0.57
1:A:1803:GLY:C	1:A:1805:SER:H	2.10	0.57
1:A:2406:LEU:HB3	1:A:2407:PHE:CD2	2.39	0.57
1:A:2420:LEU:HD13	1:A:2420:LEU:C	2.29	0.57
1:D:522:LEU:HD12	1:D:522:LEU:C	2.29	0.57
1:D:2404:MET:CB	1:D:2412:PHE:CE2	2.85	0.57
1:C:2062:GLY:O	1:C:2066:ILE:N	2.37	0.57
1:B:2700:GLU:HG2	1:C:2699:GLN:OE1	1.87	0.57
1:B:2737:GLY:HA2	1:C:394:CYS:CB	2.27	0.57
1:A:2732:ARG:HH12	1:A:2736:LEU:HD22	1.68	0.57
1:D:461:GLU:CD	1:D:528:THR:HG1	2.10	0.57
1:D:2275:PHE:CD1	1:D:2275:PHE:C	2.83	0.57
1:C:260:GLN:NE2	1:C:355:LEU:O	2.34	0.57
1:B:2415:LEU:HD23	1:B:2415:LEU:C	2.27	0.57
1:B:2420:LEU:HD13	1:B:2420:LEU:C	2.29	0.57
1:A:76:ALA:O	1:A:78:PRO:CD	2.51	0.57
1:D:461:GLU:CG	1:D:525:ALA:C	2.71	0.57
1:D:2406:LEU:HB3	1:D:2407:PHE:CD2	2.39	0.57
1:C:2276:TRP:C	1:C:2276:TRP:CD1	2.82	0.57
1:B:2229:TYR:N	1:B:2229:TYR:HD1	2.02	0.57
1:A:2350:LEU:C	1:A:2352:PRO:CD	2.54	0.57
1:D:519:ILE:HD12	1:D:556:CYS:SG	2.45	0.57
1:D:620:SER:O	1:D:624:LYS:N	2.37	0.57
1:C:519:ILE:HD12	1:C:556:CYS:SG	2.45	0.57
1:C:2420:LEU:HD13	1:C:2420:LEU:C	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2423:ARG:HB3	1:C:2423:ARG:CZ	2.34	0.57
1:C:2667:ILE:O	1:C:2670:ARG:NH1	2.37	0.57
1:A:2624:LYS:NZ	1:A:2624:LYS:HA	2.19	0.57
1:D:2667:ILE:O	1:D:2670:ARG:NH1	2.37	0.57
1:C:520:PHE:HZ	1:C:576:LYS:CE	1.95	0.57
1:C:2189:TYR:CD1	1:C:2189:TYR:C	2.82	0.57
1:C:2266:LEU:CA	1:C:2269:CYS:SG	2.93	0.57
1:C:2288:ASN:ND2	1:C:2413:TYR:C	2.61	0.57
1:B:519:ILE:HD12	1:B:556:CYS:SG	2.45	0.57
1:B:620:SER:O	1:B:624:LYS:N	2.37	0.57
1:B:2630:GLU:O	1:B:2634:GLU:N	2.35	0.57
1:C:528:THR:O	1:C:532:ASP:N	2.34	0.57
1:A:2266:LEU:CA	1:A:2269:CYS:SG	2.93	0.57
1:D:2275:PHE:CZ	1:D:2367:ILE:HG21	2.39	0.57
1:D:2624:LYS:NZ	1:D:2624:LYS:HA	2.19	0.57
1:C:530:CYS:O	1:C:540:GLU:OE1	2.22	0.57
1:C:2279:ILE:HD11	1:C:2364:ASN:CB	1.92	0.57
1:B:2189:TYR:CD1	1:B:2189:TYR:C	2.82	0.57
1:D:2415:LEU:HD23	1:D:2415:LEU:C	2.27	0.57
1:B:547:ALA:O	1:B:551:HIS:ND1	2.37	0.57
1:D:2276:TRP:C	1:D:2276:TRP:CD1	2.82	0.57
1:D:2345:ILE:O	1:D:2353:THR:HG23	2.05	0.57
1:D:2365:LYS:CD	1:D:2399:LEU:HB2	2.32	0.57
1:C:2018:LEU:O	1:C:2021:LEU:N	2.23	0.57
1:B:2275:PHE:CD1	1:B:2275:PHE:C	2.83	0.57
1:B:2621:PHE:N	1:B:2621:PHE:CD1	2.71	0.57
1:A:80:ALA:C	1:A:81:ASN:CG	2.71	0.57
1:A:510:MET:CG	1:A:516:LEU:HD11	2.29	0.57
1:A:530:CYS:SG	1:A:540:GLU:HB2	2.45	0.57
1:D:2192:HIS:CG	1:D:2211:PRO:HA	2.40	0.57
1:D:2372:PHE:CZ	1:D:2391:GLU:HG3	2.40	0.57
1:C:2000:VAL:O	1:C:2004:LEU:N	2.38	0.57
1:B:2000:VAL:O	1:B:2004:LEU:N	2.38	0.56
1:A:1345:TYR:CA	1:A:1349:ALA:CA	2.83	0.56
1:A:2192:HIS:CG	1:A:2211:PRO:HA	2.40	0.56
1:C:2548:GLY:HA3	1:C:2551:ASP:OD2	2.04	0.56
1:B:2548:GLY:HA3	1:B:2551:ASP:OD2	2.04	0.56
1:A:66:TYR:CA	1:A:156:ASN:ND2	2.55	0.56
1:D:2266:LEU:CA	1:D:2269:CYS:SG	2.93	0.56
1:C:547:ALA:O	1:C:551:HIS:ND1	2.37	0.56
1:B:66:TYR:CA	1:B:156:ASN:ND2	2.55	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2192:HIS:CG	1:B:2211:PRO:HA	2.40	0.56
1:B:2275:PHE:CZ	1:B:2367:ILE:HG21	2.39	0.56
1:B:2276:TRP:C	1:B:2276:TRP:CD1	2.82	0.56
1:B:2699:GLN:OE1	1:A:2700:GLU:HG2	1.86	0.56
1:A:510:MET:HG2	1:A:515:ILE:HD12	1.73	0.56
1:A:519:ILE:HD12	1:A:556:CYS:SG	2.45	0.56
1:A:2062:GLY:O	1:A:2066:ILE:N	2.37	0.56
1:A:2229:TYR:N	1:A:2229:TYR:HD1	2.02	0.56
1:A:2252:ASN:HA	1:A:2255:ASN:HD21	1.71	0.56
1:D:1345:TYR:CA	1:D:1349:ALA:CA	2.83	0.56
1:D:2062:GLY:O	1:D:2066:ILE:N	2.37	0.56
1:D:2144:ASP:CA	1:D:2652:ASP:CB	2.81	0.56
1:D:2232:GLU:HB2	1:D:2242:ASP:OD2	1.92	0.56
1:C:300:ASN:O	1:C:300:ASN:ND2	2.39	0.56
1:C:2144:ASP:H	1:C:2651:LYS:CB	1.94	0.56
1:C:2144:ASP:CA	1:C:2652:ASP:CB	2.81	0.56
1:C:2192:HIS:CG	1:C:2211:PRO:HA	2.41	0.56
1:C:2229:TYR:HD1	1:C:2229:TYR:N	2.02	0.56
1:C:2624:LYS:HA	1:C:2624:LYS:NZ	2.19	0.56
1:B:300:ASN:O	1:B:300:ASN:ND2	2.39	0.56
1:B:529:ASP:OD2	1:B:541:LEU:HD21	2.05	0.56
1:A:300:ASN:ND2	1:A:300:ASN:O	2.38	0.56
1:A:620:SER:O	1:A:624:LYS:N	2.37	0.56
1:A:2372:PHE:CZ	1:A:2391:GLU:HG3	2.40	0.56
1:D:2229:TYR:N	1:D:2229:TYR:HD1	2.02	0.56
1:D:2252:ASN:HA	1:D:2255:ASN:HD21	1.71	0.56
1:D:2266:LEU:H	1:D:2266:LEU:CD1	2.14	0.56
1:C:522:LEU:HD12	1:C:522:LEU:C	2.29	0.56
1:C:2252:ASN:HA	1:C:2255:ASN:HD21	1.71	0.56
1:C:2276:TRP:HH2	1:C:2395:HIS:CB	2.19	0.56
1:B:530:CYS:SG	1:B:540:GLU:HB2	2.45	0.56
1:B:2252:ASN:HA	1:B:2255:ASN:HD21	1.71	0.56
1:B:2266:LEU:CA	1:B:2269:CYS:SG	2.93	0.56
1:B:2637:ASN:HB2	1:B:2640:HIS:HB2	1.87	0.56
1:B:2711:ASN:HD21	1:C:2706:MET:HB2	1.71	0.56
1:D:530:CYS:SG	1:D:540:GLU:HB2	2.45	0.56
1:D:2240:ILE:HG21	1:D:2675:PHE:CG	2.41	0.56
1:B:80:ALA:C	1:B:81:ASN:CG	2.71	0.56
1:B:1345:TYR:CA	1:B:1349:ALA:CA	2.83	0.56
1:B:2345:ILE:O	1:B:2353:THR:HG23	2.05	0.56
1:B:2722:GLN:OE1	1:B:2722:GLN:HA	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:528:THR:O	1:A:532:ASP:N	2.34	0.56
1:A:2423:ARG:HB3	1:A:2423:ARG:CZ	2.34	0.56
1:D:300:ASN:ND2	1:D:300:ASN:O	2.39	0.56
1:D:2284:ALA:HB2	1:D:2416:LEU:HD12	1.88	0.56
1:A:139:PRO:HG2	1:A:148:ARG:HB2	1.88	0.56
1:D:2276:TRP:HH2	1:D:2395:HIS:CB	2.19	0.56
1:D:2637:ASN:HB2	1:D:2640:HIS:HB2	1.87	0.56
1:C:530:CYS:SG	1:C:540:GLU:HB2	2.45	0.56
1:C:620:SER:O	1:C:624:LYS:N	2.37	0.56
1:C:1345:TYR:CA	1:C:1349:ALA:CA	2.83	0.56
1:C:2229:TYR:N	1:C:2229:TYR:CD1	2.74	0.56
1:B:2276:TRP:HH2	1:B:2395:HIS:CB	2.19	0.56
1:A:2722:GLN:OE1	1:A:2722:GLN:HA	2.05	0.56
1:D:72:PHE:CE1	1:D:93:HIS:HA	2.41	0.56
1:D:2229:TYR:N	1:D:2229:TYR:CD1	2.74	0.56
1:C:139:PRO:HG2	1:C:148:ARG:HB2	1.88	0.56
1:B:72:PHE:CE1	1:B:93:HIS:HA	2.41	0.56
1:B:139:PRO:HG2	1:B:148:ARG:HB2	1.88	0.56
1:B:2455:PHE:CZ	1:B:2572:LEU:HD11	2.41	0.56
1:A:529:ASP:OD2	1:A:541:LEU:HD21	2.05	0.56
1:A:2637:ASN:HB2	1:A:2640:HIS:HB2	1.87	0.56
1:B:2622:ASP:HB3	1:B:2628:PHE:HD1	1.70	0.56
1:D:2275:PHE:HD1	1:D:2275:PHE:C	2.13	0.56
1:C:2275:PHE:HD1	1:C:2275:PHE:C	2.13	0.56
1:C:2410:GLU:C	1:C:2412:PHE:H	2.14	0.56
1:B:127:LYS:O	1:B:441:ARG:NH1	2.39	0.55
1:B:302:LEU:HD11	1:A:2733:ILE:CG2	2.36	0.55
1:B:2144:ASP:CA	1:B:2652:ASP:CB	2.81	0.55
1:A:72:PHE:CE1	1:A:93:HIS:HA	2.41	0.55
1:D:139:PRO:HG2	1:D:148:ARG:HB2	1.88	0.55
1:D:1803:GLY:C	1:D:1805:SER:H	2.10	0.55
1:C:2275:PHE:CD1	1:C:2275:PHE:C	2.83	0.55
1:B:2231:THR:HG23	1:B:2232:GLU:H	0.39	0.55
1:B:2279:ILE:HD13	1:B:2364:ASN:CB	2.07	0.55
1:A:2275:PHE:CZ	1:A:2367:ILE:HG21	2.39	0.55
1:D:856:ASP:O	1:D:860:ASN:N	2.40	0.55
1:D:2176:PRO:CA	1:D:2186:LEU:CD1	2.84	0.55
1:D:2345:ILE:CB	1:D:2353:THR:HG21	2.31	0.55
1:D:2722:GLN:HA	1:D:2722:GLN:OE1	2.05	0.55
1:C:517:LYS:HA	1:C:520:PHE:CE1	2.42	0.55
1:B:2176:PRO:CA	1:B:2186:LEU:CD1	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2699:GLN:OE1	1:A:2700:GLU:CB	2.55	0.55
1:A:2231:THR:HG23	1:A:2232:GLU:H	0.39	0.55
1:A:2276:TRP:HH2	1:A:2395:HIS:CB	2.19	0.55
1:A:2621:PHE:N	1:A:2621:PHE:CD1	2.71	0.55
1:D:302:LEU:HD11	1:C:2733:ILE:CG2	2.36	0.55
1:D:2188:PHE:O	1:D:2191:LYS:N	2.34	0.55
1:C:72:PHE:CE1	1:C:93:HIS:HA	2.41	0.55
1:C:2240:ILE:HG21	1:C:2675:PHE:CG	2.41	0.55
1:B:2231:THR:CG2	1:B:2232:GLU:O	2.54	0.55
1:B:2365:LYS:CD	1:B:2399:LEU:HB2	2.32	0.55
1:A:72:PHE:C	1:A:72:PHE:CD2	2.85	0.55
1:A:2365:LYS:CD	1:A:2399:LEU:HB2	2.32	0.55
1:D:307:HIS:HD2	1:D:310:THR:H	1.55	0.55
1:D:391:ARG:HG3	1:D:396:ASN:O	2.07	0.55
1:D:2000:VAL:O	1:D:2004:LEU:N	2.38	0.55
1:C:2231:THR:CG2	1:C:2232:GLU:O	2.54	0.55
1:C:2288:ASN:ND2	1:C:2414:SER:N	2.47	0.55
1:C:2722:GLN:OE1	1:C:2722:GLN:HA	2.05	0.55
1:B:307:HIS:HD2	1:B:310:THR:H	1.55	0.55
1:B:2240:ILE:HG21	1:B:2675:PHE:CG	2.41	0.55
1:B:2372:PHE:CZ	1:B:2391:GLU:HG3	2.40	0.55
1:B:2706:MET:CG	1:A:2707:LYS:HE3	2.33	0.55
1:B:2737:GLY:CA	1:C:364:ILE:HG21	2.35	0.55
1:A:502:PRO:HB3	1:A:565:GLN:HE22	1.72	0.55
1:A:2000:VAL:O	1:A:2004:LEU:N	2.38	0.55
1:A:2216:CYS:C	1:A:2254:MET:HE2	2.32	0.55
1:A:2231:THR:HG23	1:A:2232:GLU:O	2.06	0.55
1:A:2240:ILE:HG21	1:A:2675:PHE:CG	2.41	0.55
1:D:1639:GLU:O	1:D:1643:ALA:N	2.39	0.55
1:D:2220:THR:HG23	1:D:2223:SER:H	1.72	0.55
1:C:307:HIS:HD2	1:C:310:THR:H	1.55	0.55
1:C:2240:ILE:CD1	1:C:2672:LEU:CD1	2.45	0.55
1:C:2275:PHE:CZ	1:C:2367:ILE:HG21	2.39	0.55
1:C:2401:ILE:O	1:C:2412:PHE:HB3	2.07	0.55
1:B:517:LYS:HA	1:B:520:PHE:CE1	2.42	0.55
1:B:2229:TYR:N	1:B:2229:TYR:CD1	2.74	0.55
1:A:127:LYS:O	1:A:441:ARG:NH1	2.40	0.55
1:A:392:HIS:HE1	1:A:397:THR:N	1.83	0.55
1:A:2144:ASP:H	1:A:2651:LYS:CB	1.94	0.55
1:D:72:PHE:C	1:D:72:PHE:CD2	2.85	0.55
1:D:2621:PHE:CD1	1:D:2621:PHE:N	2.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2176:PRO:CA	1:C:2186:LEU:CD1	2.84	0.55
1:C:2231:THR:HG23	1:C:2232:GLU:H	0.39	0.55
1:C:2249:ASP:OD1	1:C:2382:GLY:CA	2.41	0.55
1:C:2581:VAL:HA	1:C:2584:LEU:HG	1.89	0.55
1:B:364:ILE:CD1	1:A:2736:LEU:HD23	2.32	0.55
1:B:2062:GLY:O	1:B:2066:ILE:N	2.37	0.55
1:B:2699:GLN:CB	1:A:2700:GLU:CD	2.77	0.55
1:A:530:CYS:H	1:A:541:LEU:HD11	1.71	0.55
1:A:2229:TYR:N	1:A:2229:TYR:CD1	2.74	0.55
1:A:2231:THR:CG2	1:A:2232:GLU:O	2.54	0.55
1:A:2706:MET:CG	1:D:2707:LYS:HE3	2.27	0.55
1:D:2293:PHE:HD1	1:D:2293:PHE:C	2.15	0.55
1:C:2189:TYR:HD1	1:C:2190:ALA:N	2.04	0.55
1:C:2231:THR:HG23	1:C:2232:GLU:O	2.06	0.55
1:C:2345:ILE:O	1:C:2353:THR:HG23	2.05	0.55
1:C:2637:ASN:HB2	1:C:2640:HIS:HB2	1.87	0.55
1:B:522:LEU:HD12	1:B:522:LEU:C	2.29	0.55
1:A:2249:ASP:OD2	1:A:2382:GLY:HA2	2.07	0.55
1:A:2273:MET:HE3	1:A:2273:MET:C	2.32	0.55
1:A:2455:PHE:CZ	1:A:2572:LEU:HD11	2.41	0.55
1:C:2293:PHE:HD1	1:C:2293:PHE:C	2.15	0.55
1:C:2708:LEU:CD1	1:C:2708:LEU:H	2.12	0.55
1:B:502:PRO:HB3	1:B:565:GLN:HE22	1.72	0.55
1:B:2621:PHE:N	1:B:2621:PHE:HD1	2.05	0.55
1:B:2733:ILE:HB	1:C:302:LEU:HD13	1.89	0.55
1:A:307:HIS:HD2	1:A:310:THR:H	1.55	0.55
1:A:2401:ILE:O	1:A:2412:PHE:HB3	2.07	0.55
1:D:2231:THR:HG23	1:D:2232:GLU:H	0.39	0.55
1:D:2341:ILE:HD12	1:D:2344:LEU:HD11	1.89	0.55
1:C:391:ARG:HG3	1:C:396:ASN:O	2.07	0.55
1:C:2081:ARG:O	1:C:2085:VAL:N	2.36	0.55
1:C:2249:ASP:OD2	1:C:2382:GLY:HA2	2.07	0.55
1:B:241:ARG:HH12	1:B:273:THR:HA	1.72	0.55
1:B:391:ARG:HG3	1:B:396:ASN:O	2.07	0.55
1:B:2216:CYS:C	1:B:2254:MET:HE2	2.32	0.55
1:A:391:ARG:HG3	1:A:396:ASN:O	2.07	0.55
1:A:2084:LEU:O	1:A:2088:LEU:N	2.36	0.55
1:A:2293:PHE:CD1	1:A:2293:PHE:C	2.85	0.55
1:D:517:LYS:HA	1:D:520:PHE:CE1	2.42	0.55
1:D:615:ILE:O	1:D:619:VAL:N	2.39	0.55
1:D:736:GLN:O	1:D:740:PHE:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2276:TRP:HA	1:D:2368:PHE:HB3	1.89	0.55
1:B:394:CYS:CB	1:A:2737:GLY:HA2	2.27	0.54
1:B:830:LYS:O	1:B:834:ALA:N	2.39	0.54
1:B:2273:MET:HE3	1:B:2273:MET:C	2.32	0.54
1:A:2220:THR:HG23	1:A:2223:SER:H	1.72	0.54
1:A:2251:PHE:CD1	1:A:2251:PHE:C	2.85	0.54
1:D:2084:LEU:O	1:D:2088:LEU:N	2.36	0.54
1:D:2273:MET:HE3	1:D:2273:MET:C	2.32	0.54
1:D:2349:GLY:O	1:D:2352:PRO:CD	2.55	0.54
1:D:2581:VAL:HA	1:D:2584:LEU:HG	1.89	0.54
1:C:127:LYS:O	1:C:441:ARG:NH1	2.39	0.54
1:C:2084:LEU:O	1:C:2088:LEU:N	2.36	0.54
1:C:2273:MET:HE3	1:C:2273:MET:C	2.32	0.54
1:B:2231:THR:HG23	1:B:2232:GLU:O	2.06	0.54
1:D:502:PRO:HB3	1:D:565:GLN:HE22	1.72	0.54
1:D:2189:TYR:CD1	1:D:2189:TYR:C	2.82	0.54
1:D:2189:TYR:HD1	1:D:2190:ALA:N	2.03	0.54
1:D:2231:THR:CG2	1:D:2232:GLU:O	2.54	0.54
1:D:2388:LEU:CD2	1:D:2388:LEU:H	1.93	0.54
1:C:1838:THR:O	1:C:1842:SER:N	2.41	0.54
1:C:2220:THR:HG23	1:C:2223:SER:H	1.72	0.54
1:B:1639:GLU:O	1:B:1643:ALA:N	2.39	0.54
1:B:1838:THR:O	1:B:1842:SER:N	2.41	0.54
1:A:391:ARG:HG2	1:A:396:ASN:CA	2.36	0.54
1:A:614:GLU:O	1:A:618:PHE:N	2.39	0.54
1:D:241:ARG:HH12	1:D:273:THR:HA	1.72	0.54
1:D:2216:CYS:C	1:D:2254:MET:HE2	2.32	0.54
1:D:2633:LYS:HA	1:D:2637:ASN:HD21	1.73	0.54
1:C:66:TYR:CA	1:C:156:ASN:ND2	2.55	0.54
1:C:241:ARG:HH12	1:C:273:THR:HA	1.72	0.54
1:C:621:LEU:O	1:C:625:ASN:N	2.39	0.54
1:C:830:LYS:O	1:C:834:ALA:N	2.39	0.54
1:C:2216:CYS:C	1:C:2254:MET:HE2	2.32	0.54
1:B:264:LEU:HD21	1:B:414:VAL:HG22	1.88	0.54
1:B:2249:ASP:OD2	1:B:2382:GLY:HA2	2.07	0.54
1:B:2288:ASN:CG	1:B:2413:TYR:C	2.76	0.54
1:B:2293:PHE:HD1	1:B:2293:PHE:C	2.15	0.54
1:B:2341:ILE:HD12	1:B:2344:LEU:HD11	1.89	0.54
1:A:241:ARG:HH12	1:A:273:THR:HA	1.72	0.54
1:A:517:LYS:HA	1:A:520:PHE:CE1	2.42	0.54
1:A:2176:PRO:CA	1:A:2186:LEU:CD1	2.84	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2288:ASN:CG	1:A:2413:TYR:C	2.76	0.54
1:D:2451:LEU:HA	1:D:2454:LEU:CD2	2.28	0.54
1:C:2276:TRP:HA	1:C:2368:PHE:HB3	1.89	0.54
1:C:2284:ALA:HB2	1:C:2416:LEU:HD12	1.88	0.54
1:C:2451:LEU:HA	1:C:2454:LEU:CD2	2.28	0.54
1:C:2454:LEU:HD23	1:C:2454:LEU:N	2.07	0.54
1:C:2564:ALA:HA	1:C:2567:VAL:HG21	1.90	0.54
1:C:2621:PHE:N	1:C:2621:PHE:HD1	2.05	0.54
1:B:2293:PHE:C	1:B:2293:PHE:CD1	2.85	0.54
1:B:2401:ILE:O	1:B:2412:PHE:HB3	2.07	0.54
1:B:2404:MET:CB	1:B:2412:PHE:CE2	2.85	0.54
1:B:2564:ALA:HA	1:B:2567:VAL:HG21	1.90	0.54
1:A:2622:ASP:OD2	1:A:2628:PHE:CA	2.31	0.54
1:A:2733:ILE:O	1:A:2733:ILE:HG13	2.06	0.54
1:D:302:LEU:HD11	1:C:2733:ILE:HG22	1.89	0.54
1:D:2622:ASP:HB3	1:D:2628:PHE:HD1	1.70	0.54
1:C:529:ASP:OD2	1:C:541:LEU:HD21	2.05	0.54
1:D:127:LYS:O	1:D:441:ARG:NH1	2.39	0.54
1:D:391:ARG:HG2	1:D:396:ASN:CA	2.36	0.54
1:D:529:ASP:OD2	1:D:541:LEU:HD21	2.05	0.54
1:D:2018:LEU:O	1:D:2021:LEU:N	2.23	0.54
1:D:2404:MET:CB	1:D:2412:PHE:CD2	2.91	0.54
1:D:2696:ARG:NH1	1:D:2696:ARG:HB3	2.23	0.54
1:C:264:LEU:HD21	1:C:414:VAL:HG22	1.88	0.54
1:C:2452:VAL:O	1:C:2456:SER:CB	2.56	0.54
1:A:2275:PHE:CD1	1:A:2275:PHE:C	2.83	0.54
1:C:72:PHE:HB2	1:C:92:LEU:CD1	2.38	0.54
1:C:131:TYR:OH	1:C:154:ALA:O	2.22	0.54
1:B:2236:GLN:NE2	1:C:2629:GLU:OE2	2.38	0.54
1:A:260:GLN:NE2	1:A:355:LEU:O	2.34	0.54
1:A:621:LEU:O	1:A:625:ASN:N	2.39	0.54
1:A:2018:LEU:O	1:A:2021:LEU:N	2.23	0.54
1:A:2458:VAL:HG12	1:A:2459:GLY:H	1.73	0.54
1:D:242:LEU:HB2	1:D:250:PHE:HE1	1.73	0.54
1:D:264:LEU:HD21	1:D:414:VAL:HG22	1.88	0.54
1:D:2454:LEU:HD23	1:D:2454:LEU:N	2.07	0.54
1:C:2349:GLY:O	1:C:2352:PRO:CD	2.55	0.54
1:C:2622:ASP:HB3	1:C:2628:PHE:HD1	1.70	0.54
1:B:302:LEU:HD11	1:A:2733:ILE:HG22	1.90	0.54
1:B:2722:GLN:CG	1:C:379:ASP:CG	2.79	0.54
1:A:1093:VAL:O	1:A:1097:PHE:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:553:CYS:CB	1:D:557:TYR:CE2	2.69	0.54
1:C:856:ASP:O	1:C:860:ASN:N	2.40	0.54
1:C:2341:ILE:HD12	1:C:2344:LEU:HD11	1.89	0.54
1:C:2346:PHE:CD1	1:C:2346:PHE:C	2.86	0.54
1:C:2372:PHE:CZ	1:C:2391:GLU:HG3	2.40	0.54
1:B:72:PHE:C	1:B:72:PHE:CD2	2.85	0.54
1:B:242:LEU:HB2	1:B:250:PHE:HE1	1.73	0.54
1:B:2410:GLU:C	1:B:2412:PHE:H	2.14	0.54
1:A:2189:TYR:HD1	1:A:2190:ALA:N	2.04	0.54
1:A:2293:PHE:HD1	1:A:2293:PHE:C	2.15	0.54
1:A:2345:ILE:O	1:A:2353:THR:HG23	2.05	0.54
1:A:2379:PHE:CE1	1:A:2392:PHE:HE1	2.24	0.54
1:A:2581:VAL:HA	1:A:2584:LEU:HG	1.89	0.54
1:D:2458:VAL:HG12	1:D:2459:GLY:H	1.73	0.54
1:C:2243:PHE:CZ	1:C:2612:PHE:HE2	1.75	0.54
1:C:2288:ASN:CG	1:C:2413:TYR:C	2.76	0.54
1:C:2350:LEU:C	1:C:2352:PRO:CD	2.54	0.54
1:B:553:CYS:CB	1:B:557:TYR:CE2	2.69	0.53
1:B:2404:MET:CB	1:B:2412:PHE:CD2	2.91	0.53
1:B:2581:VAL:HA	1:B:2584:LEU:HG	1.89	0.53
1:B:2706:MET:HB3	1:A:2707:LYS:CD	2.27	0.53
1:A:131:TYR:OH	1:A:154:ALA:O	2.22	0.53
1:A:264:LEU:HD21	1:A:414:VAL:HG22	1.88	0.53
1:A:1407:VAL:O	1:A:1411:THR:N	2.38	0.53
1:A:2276:TRP:HA	1:A:2368:PHE:HB3	1.89	0.53
1:D:2231:THR:HG23	1:D:2232:GLU:O	2.06	0.53
1:D:2249:ASP:OD2	1:D:2382:GLY:HA2	2.07	0.53
1:D:2273:MET:C	1:D:2273:MET:SD	2.91	0.53
1:D:2293:PHE:C	1:D:2293:PHE:CD1	2.85	0.53
1:D:2346:PHE:CD1	1:D:2346:PHE:C	2.85	0.53
1:C:76:ALA:O	1:C:78:PRO:CD	2.51	0.53
1:C:502:PRO:HB3	1:C:565:GLN:HE22	1.72	0.53
1:B:260:GLN:NE2	1:B:355:LEU:O	2.34	0.53
1:B:1805:SER:O	1:B:1809:ILE:N	2.39	0.53
1:B:2411:PHE:HE2	1:B:2412:PHE:CE2	2.17	0.53
1:A:242:LEU:HB2	1:A:250:PHE:HE1	1.73	0.53
1:A:391:ARG:HA	1:A:397:THR:O	2.08	0.53
1:A:1838:THR:O	1:A:1842:SER:N	2.41	0.53
1:A:2273:MET:C	1:A:2273:MET:SD	2.91	0.53
1:A:2404:MET:CB	1:A:2412:PHE:CD2	2.91	0.53
1:A:2452:VAL:O	1:A:2456:SER:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1838:THR:O	1:D:1842:SER:N	2.41	0.53
1:D:2176:PRO:O	1:D:2186:LEU:HD22	2.07	0.53
1:D:2251:PHE:CD1	1:D:2251:PHE:C	2.85	0.53
1:C:2273:MET:C	1:C:2273:MET:SD	2.91	0.53
1:C:2723:MET:N	1:C:2723:MET:SD	2.81	0.53
1:B:2284:ALA:HB2	1:B:2416:LEU:HD12	1.88	0.53
1:A:503:ASN:O	1:A:507:GLN:NE2	2.41	0.53
1:A:2341:ILE:HD12	1:A:2344:LEU:HD11	1.89	0.53
1:A:2706:MET:HB3	1:D:2707:LYS:CD	2.24	0.53
1:D:72:PHE:HB2	1:D:92:LEU:CD1	2.38	0.53
1:D:530:CYS:H	1:D:541:LEU:HD11	1.71	0.53
1:D:2401:ILE:O	1:D:2412:PHE:HB3	2.07	0.53
1:C:391:ARG:HA	1:C:397:THR:O	2.09	0.53
1:C:530:CYS:H	1:C:541:LEU:HD11	1.71	0.53
1:C:2404:MET:CB	1:C:2412:PHE:CD2	2.91	0.53
1:C:2458:VAL:HG12	1:C:2459:GLY:H	1.73	0.53
1:B:614:GLU:O	1:B:618:PHE:N	2.39	0.53
1:B:2696:ARG:NH1	1:B:2696:ARG:HB3	2.23	0.53
1:A:1639:GLU:O	1:A:1643:ALA:N	2.39	0.53
1:A:2176:PRO:O	1:A:2186:LEU:HD22	2.07	0.53
1:A:2633:LYS:HA	1:A:2637:ASN:HD21	1.73	0.53
1:A:2696:ARG:NH1	1:A:2696:ARG:HB3	2.23	0.53
1:A:2707:LYS:HB2	1:A:2707:LYS:HZ2	1.72	0.53
1:D:131:TYR:OH	1:D:154:ALA:O	2.22	0.53
1:D:1308:TYR:O	1:D:1312:LEU:N	2.42	0.53
1:D:2410:GLU:C	1:D:2412:PHE:H	2.14	0.53
1:C:592:GLU:O	1:C:596:THR:N	2.40	0.53
1:C:2696:ARG:HB3	1:C:2696:ARG:NH1	2.23	0.53
1:B:530:CYS:H	1:B:541:LEU:HD11	1.71	0.53
1:B:827:ASP:O	1:B:831:GLU:N	2.40	0.53
1:B:2458:VAL:HG12	1:B:2459:GLY:H	1.73	0.53
1:A:72:PHE:HB2	1:A:92:LEU:CD1	2.38	0.53
1:D:391:ARG:HA	1:D:397:THR:O	2.09	0.53
1:D:2288:ASN:CG	1:D:2413:TYR:C	2.76	0.53
1:D:2452:VAL:O	1:D:2456:SER:CB	2.56	0.53
1:C:72:PHE:C	1:C:72:PHE:CD2	2.85	0.53
1:C:242:LEU:HB2	1:C:250:PHE:HE1	1.74	0.53
1:C:391:ARG:CG	1:C:396:ASN:C	2.82	0.53
1:C:1979:ASN:O	1:C:1980:HIS:C	2.52	0.53
1:C:2266:LEU:H	1:C:2266:LEU:CD1	2.14	0.53
1:C:2633:LYS:HA	1:C:2637:ASN:HD21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:72:PHE:HB2	1:B:92:LEU:CD1	2.38	0.53
1:B:2220:THR:HG23	1:B:2223:SER:H	1.72	0.53
1:D:63:MET:HB3	1:D:120:VAL:HG21	1.91	0.53
1:D:2621:PHE:N	1:D:2621:PHE:HD1	2.05	0.53
1:D:2723:MET:SD	1:D:2723:MET:N	2.81	0.53
1:B:67:SER:HA	1:B:70:LYS:HZ2	1.73	0.53
1:B:584:GLN:C	1:B:585:ILE:HG12	2.34	0.53
1:B:2276:TRP:HA	1:B:2368:PHE:HB3	1.89	0.53
1:A:2276:TRP:HA	1:A:2368:PHE:CG	2.44	0.53
1:D:2351:GLN:H	1:D:2352:PRO:CD	2.19	0.53
1:C:2293:PHE:C	1:C:2293:PHE:CD1	2.85	0.53
1:B:391:ARG:CG	1:B:396:ASN:C	2.82	0.53
1:B:503:ASN:O	1:B:507:GLN:NE2	2.41	0.53
1:A:584:GLN:C	1:A:585:ILE:HG12	2.34	0.53
1:D:80:ALA:C	1:D:81:ASN:CG	2.71	0.53
1:D:1669:GLU:O	1:D:1673:ILE:N	2.42	0.53
1:C:2251:PHE:CD1	1:C:2251:PHE:C	2.85	0.53
1:C:2735:LEU:HD22	1:C:2736:LEU:HD12	1.91	0.53
1:B:391:ARG:HA	1:B:397:THR:O	2.09	0.53
1:B:856:ASP:O	1:B:860:ASN:N	2.40	0.53
1:B:1093:VAL:O	1:B:1097:PHE:N	2.40	0.53
1:B:2110:GLU:O	1:B:2114:TYR:N	2.42	0.53
1:B:2232:GLU:HB2	1:B:2242:ASP:CG	2.33	0.53
1:B:2276:TRP:HA	1:B:2368:PHE:CG	2.44	0.53
1:B:2723:MET:N	1:B:2723:MET:SD	2.81	0.53
1:A:1308:TYR:O	1:A:1312:LEU:N	2.42	0.53
1:A:2231:THR:CG2	1:A:2232:GLU:N	1.84	0.53
1:A:2346:PHE:C	1:A:2346:PHE:CD1	2.86	0.53
1:A:2398:TYR:HD1	1:A:2416:LEU:CD2	2.20	0.53
1:D:617:THR:O	1:D:621:LEU:N	2.41	0.53
1:D:1979:ASN:O	1:D:1980:HIS:C	2.52	0.53
1:D:2350:LEU:O	1:D:2354:LEU:CG	2.57	0.53
1:C:503:ASN:O	1:C:507:GLN:NE2	2.41	0.53
1:C:2276:TRP:HA	1:C:2368:PHE:CG	2.44	0.53
1:B:1669:GLU:O	1:B:1673:ILE:N	2.42	0.53
1:B:2275:PHE:C	1:B:2277:SER:N	2.67	0.53
1:B:2452:VAL:O	1:B:2456:SER:CB	2.56	0.53
1:B:2700:GLU:CB	1:C:2699:GLN:OE1	2.56	0.53
1:B:2733:ILE:HG13	1:B:2733:ILE:O	2.06	0.53
1:A:711:SER:O	1:A:715:LEU:N	2.41	0.53
1:A:2651:LYS:HE3	1:A:2655:GLU:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:300:ASN:C	1:D:300:ASN:HD22	2.17	0.53
1:D:503:ASN:O	1:D:507:GLN:NE2	2.41	0.53
1:C:63:MET:HB3	1:C:120:VAL:HG21	1.91	0.53
1:C:617:THR:O	1:C:621:LEU:N	2.41	0.53
1:B:2018:LEU:O	1:B:2021:LEU:N	2.23	0.52
1:A:2350:LEU:O	1:A:2354:LEU:CG	2.57	0.52
1:A:2410:GLU:C	1:A:2412:PHE:H	2.14	0.52
1:A:2735:LEU:HD22	1:A:2736:LEU:HD12	1.91	0.52
1:D:2455:PHE:CZ	1:D:2572:LEU:HD11	2.41	0.52
1:D:2564:ALA:HA	1:D:2567:VAL:HG21	1.89	0.52
1:C:518:GLN:NE2	1:C:518:GLN:CA	2.72	0.52
1:C:1093:VAL:O	1:C:1097:PHE:N	2.40	0.52
1:C:2176:PRO:C	1:C:2186:LEU:HD13	2.23	0.52
1:B:1249:GLN:O	1:B:1253:ALA:N	2.41	0.52
1:B:2176:PRO:O	1:B:2186:LEU:HD22	2.08	0.52
1:B:2273:MET:C	1:B:2273:MET:SD	2.91	0.52
1:B:2288:ASN:ND2	1:B:2414:SER:N	2.47	0.52
1:B:2384:ARG:HB3	1:B:2387:VAL:HG12	1.91	0.52
1:A:856:ASP:O	1:A:860:ASN:N	2.40	0.52
1:A:2189:TYR:CZ	1:A:2193:THR:OG1	2.63	0.52
1:A:2368:PHE:CZ	1:A:2395:HIS:HE1	2.23	0.52
1:D:379:ASP:CG	1:C:2722:GLN:CG	2.80	0.52
1:D:584:GLN:C	1:D:585:ILE:HG12	2.34	0.52
1:D:2396:LEU:HD12	1:D:2396:LEU:C	2.35	0.52
1:D:2550:GLY:N	1:D:2570:ASP:OD1	2.42	0.52
1:C:1639:GLU:O	1:C:1643:ALA:N	2.39	0.52
1:B:621:LEU:O	1:B:625:ASN:N	2.39	0.52
1:B:2081:ARG:O	1:B:2085:VAL:N	2.36	0.52
1:B:2349:GLY:O	1:B:2352:PRO:CD	2.55	0.52
1:B:2350:LEU:O	1:B:2354:LEU:CG	2.57	0.52
1:B:2550:GLY:N	1:B:2570:ASP:OD1	2.42	0.52
1:A:2275:PHE:C	1:A:2277:SER:N	2.67	0.52
1:A:2295:TYR:CD2	1:D:2532:LEU:HD21	2.44	0.52
1:A:2706:MET:HB2	1:D:2711:ASN:HD21	1.75	0.52
1:D:965:ILE:O	1:D:969:ASP:N	2.39	0.52
1:C:827:ASP:O	1:C:831:GLU:N	2.40	0.52
1:C:1308:TYR:O	1:C:1312:LEU:N	2.42	0.52
1:A:523:LEU:N	1:A:523:LEU:CD1	2.73	0.52
1:A:749:TYR:O	1:A:753:ASN:N	2.42	0.52
1:A:2384:ARG:HB3	1:A:2387:VAL:HG12	1.91	0.52
1:A:2550:GLY:N	1:A:2570:ASP:OD1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:523:LEU:N	1:D:523:LEU:CD1	2.73	0.52
1:D:2624:LYS:HA	1:D:2624:LYS:HZ2	1.72	0.52
1:D:2628:PHE:O	1:D:2631:HIS:ND1	2.43	0.52
1:C:2550:GLY:N	1:C:2570:ASP:OD1	2.42	0.52
1:B:379:ASP:CG	1:A:2722:GLN:CG	2.81	0.52
1:B:615:ILE:O	1:B:619:VAL:N	2.39	0.52
1:B:2633:LYS:HA	1:B:2637:ASN:HD21	1.73	0.52
1:A:40:GLN:HE21	1:A:42:GLU:HG3	1.75	0.52
1:A:249:LYS:NZ	1:A:263:PHE:O	2.42	0.52
1:A:2153:GLY:O	1:A:2157:TYR:N	2.41	0.52
1:A:2723:MET:N	1:A:2723:MET:SD	2.81	0.52
1:D:2153:GLY:O	1:D:2157:TYR:N	2.41	0.52
1:D:2404:MET:SD	1:D:2412:PHE:CZ	3.03	0.52
1:C:510:MET:SD	1:C:515:ILE:CD1	2.95	0.52
1:C:584:GLN:C	1:C:585:ILE:HG12	2.34	0.52
1:C:1669:GLU:O	1:C:1673:ILE:N	2.42	0.52
1:C:2219:LEU:CD2	1:C:2220:THR:N	2.73	0.52
1:B:2346:PHE:CD1	1:B:2346:PHE:C	2.86	0.52
1:B:2397:LEU:N	1:B:2397:LEU:CD2	2.72	0.52
1:B:2735:LEU:HD22	1:B:2736:LEU:HD12	1.91	0.52
1:A:617:THR:O	1:A:621:LEU:N	2.41	0.52
1:A:830:LYS:O	1:A:834:ALA:N	2.39	0.52
1:A:2397:LEU:N	1:A:2397:LEU:CD2	2.73	0.52
1:A:2707:LYS:NZ	1:A:2707:LYS:CB	2.73	0.52
1:D:116:GLN:HB3	1:D:173:GLY:HA2	1.92	0.52
1:D:2707:LYS:HZ2	1:D:2707:LYS:CB	2.23	0.52
1:C:300:ASN:C	1:C:300:ASN:HD22	2.17	0.52
1:B:40:GLN:HE21	1:B:42:GLU:HG3	1.75	0.52
1:B:391:ARG:HG2	1:B:396:ASN:CA	2.36	0.52
1:B:530:CYS:CB	1:B:541:LEU:HD11	2.38	0.52
1:B:2404:MET:SD	1:B:2412:PHE:CZ	3.03	0.52
1:A:300:ASN:C	1:A:300:ASN:HD22	2.17	0.52
1:A:2219:LEU:CD2	1:A:2220:THR:N	2.73	0.52
1:A:2404:MET:SD	1:A:2412:PHE:CZ	3.03	0.52
1:D:2651:LYS:HE3	1:D:2655:GLU:HA	1.90	0.52
1:B:2368:PHE:CZ	1:B:2395:HIS:HE1	2.23	0.52
1:B:2651:LYS:HE3	1:B:2655:GLU:HA	1.90	0.52
1:A:391:ARG:CG	1:A:396:ASN:C	2.82	0.52
1:A:520:PHE:CZ	1:A:576:LYS:CD	2.92	0.52
1:A:2624:LYS:HZ1	1:A:2624:LYS:C	2.17	0.52
1:A:2656:TYR:HB3	1:A:2660:GLU:HG3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2110:GLU:O	1:D:2114:TYR:N	2.42	0.52
1:D:2276:TRP:HA	1:D:2368:PHE:CG	2.44	0.52
1:D:2656:TYR:HB3	1:D:2660:GLU:HG3	1.92	0.52
1:D:2707:LYS:CB	1:D:2707:LYS:NZ	2.73	0.52
1:D:2718:GLU:O	1:D:2721:ASP:CG	2.53	0.52
1:C:40:GLN:HE21	1:C:42:GLU:HG3	1.75	0.52
1:B:510:MET:CG	1:B:516:LEU:HD11	2.29	0.52
1:B:2628:PHE:O	1:B:2631:HIS:ND1	2.43	0.52
1:A:1979:ASN:O	1:A:1980:HIS:C	2.52	0.52
1:A:2284:ALA:HB2	1:A:2416:LEU:HD12	1.88	0.52
1:D:493:ASP:OD1	1:D:558:ARG:NH1	2.43	0.52
1:D:584:GLN:C	1:D:585:ILE:CG1	2.83	0.52
1:D:614:GLU:O	1:D:618:PHE:N	2.39	0.52
1:C:615:ILE:O	1:C:619:VAL:N	2.39	0.52
1:C:2279:ILE:HD13	1:C:2364:ASN:CB	2.07	0.52
1:C:2707:LYS:NZ	1:C:2707:LYS:CB	2.73	0.52
1:B:300:ASN:HD22	1:B:300:ASN:C	2.17	0.52
1:B:493:ASP:OD1	1:B:558:ARG:NH1	2.43	0.52
1:B:1979:ASN:O	1:B:1980:HIS:C	2.52	0.52
1:A:63:MET:HB3	1:A:120:VAL:HG21	1.91	0.52
1:A:394:CYS:CB	1:D:2737:GLY:HA2	2.29	0.52
1:A:475:LYS:HA	1:A:478:GLU:HB3	1.92	0.52
1:A:518:GLN:NE2	1:A:518:GLN:CA	2.72	0.52
1:D:40:GLN:HE21	1:D:42:GLU:HG3	1.75	0.52
1:D:391:ARG:CG	1:D:396:ASN:C	2.82	0.52
1:D:2735:LEU:HD22	1:D:2736:LEU:HD12	1.91	0.52
1:C:391:ARG:HG2	1:C:396:ASN:CA	2.36	0.52
1:C:736:GLN:O	1:C:740:PHE:N	2.38	0.52
1:B:63:MET:HB3	1:B:120:VAL:HG21	1.91	0.51
1:B:2624:LYS:HA	1:B:2624:LYS:HZ2	1.73	0.51
1:A:116:GLN:HB3	1:A:173:GLY:HA2	1.92	0.51
1:A:2628:PHE:O	1:A:2631:HIS:ND1	2.43	0.51
1:D:475:LYS:HA	1:D:478:GLU:HB3	1.92	0.51
1:D:520:PHE:CZ	1:D:576:LYS:CD	2.92	0.51
1:D:1407:VAL:O	1:D:1411:THR:N	2.38	0.51
1:D:2384:ARG:HB3	1:D:2387:VAL:HG12	1.91	0.51
1:D:2706:MET:HB3	1:C:2707:LYS:CD	2.34	0.51
1:C:1805:SER:O	1:C:1809:ILE:N	2.39	0.51
1:C:2350:LEU:O	1:C:2354:LEU:CG	2.57	0.51
1:C:2628:PHE:O	1:C:2631:HIS:ND1	2.43	0.51
1:B:965:ILE:O	1:B:969:ASP:N	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1195:ARG:O	1:B:1199:LYS:N	2.44	0.51
1:B:1308:TYR:O	1:B:1312:LEU:N	2.42	0.51
1:B:2219:LEU:CD2	1:B:2220:THR:N	2.73	0.51
1:A:2621:PHE:N	1:A:2621:PHE:HD1	2.05	0.51
1:D:518:GLN:NE2	1:D:518:GLN:CA	2.72	0.51
1:D:2232:GLU:HB2	1:D:2242:ASP:CG	2.33	0.51
1:D:2276:TRP:CE2	1:D:2368:PHE:HE1	2.20	0.51
1:D:2398:TYR:HD1	1:D:2416:LEU:CD2	2.20	0.51
1:C:554:ARG:NH2	1:C:588:ASP:C	2.64	0.51
1:C:1407:VAL:O	1:C:1411:THR:N	2.38	0.51
1:C:2275:PHE:C	1:C:2277:SER:N	2.67	0.51
1:C:2287:MET:SD	1:C:2287:MET:C	2.93	0.51
1:C:2365:LYS:CD	1:C:2399:LEU:HB2	2.32	0.51
1:C:2624:LYS:HA	1:C:2624:LYS:HZ2	1.74	0.51
1:C:2718:GLU:O	1:C:2721:ASP:CG	2.53	0.51
1:B:475:LYS:HA	1:B:478:GLU:HB3	1.92	0.51
1:B:554:ARG:NH2	1:B:588:ASP:C	2.64	0.51
1:A:736:GLN:O	1:A:740:PHE:N	2.38	0.51
1:A:1979:ASN:C	1:A:1981:ASN:N	2.61	0.51
1:A:2718:GLU:O	1:A:2721:ASP:CG	2.53	0.51
1:D:2287:MET:SD	1:D:2287:MET:C	2.93	0.51
1:C:523:LEU:N	1:C:523:LEU:CD1	2.73	0.51
1:A:493:ASP:OD1	1:A:558:ARG:NH1	2.43	0.51
1:A:1249:GLN:O	1:A:1253:ALA:N	2.41	0.51
1:A:2549:VAL:HG12	1:A:2550:GLY:H	1.74	0.51
1:A:2706:MET:SD	1:A:2707:LYS:N	2.84	0.51
1:D:15:CYS:N	1:D:58:PHE:O	2.42	0.51
1:D:2005:GLN:O	1:D:2009:CYS:N	2.43	0.51
1:D:2219:LEU:CD2	1:D:2220:THR:N	2.73	0.51
1:C:2176:PRO:O	1:C:2186:LEU:HD22	2.07	0.51
1:C:2368:PHE:HZ	1:C:2398:TYR:HE2	1.58	0.51
1:C:2379:PHE:CE1	1:C:2392:PHE:HE1	2.24	0.51
1:C:2404:MET:SD	1:C:2412:PHE:CZ	3.03	0.51
1:B:2287:MET:SD	1:B:2287:MET:C	2.93	0.51
1:B:2622:ASP:OD2	1:B:2628:PHE:CA	2.31	0.51
1:D:510:MET:HG2	1:D:515:ILE:HD12	1.73	0.51
1:D:554:ARG:NH2	1:D:588:ASP:C	2.64	0.51
1:D:2379:PHE:CD2	1:D:2392:PHE:CZ	2.99	0.51
1:C:538:LEU:CD2	1:C:586:GLY:C	2.31	0.51
1:C:2379:PHE:CD2	1:C:2392:PHE:CZ	2.99	0.51
1:C:2397:LEU:N	1:C:2397:LEU:CD2	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2455:PHE:CZ	1:C:2572:LEU:HD11	2.41	0.51
1:C:2651:LYS:HE3	1:C:2655:GLU:HA	1.90	0.51
1:B:523:LEU:N	1:B:523:LEU:CD1	2.73	0.51
1:B:711:SER:O	1:B:715:LEU:N	2.41	0.51
1:B:859:LYS:O	1:B:863:THR:N	2.44	0.51
1:A:615:ILE:O	1:A:619:VAL:N	2.39	0.51
1:A:827:ASP:O	1:A:831:GLU:N	2.40	0.51
1:A:2266:LEU:O	1:A:2269:CYS:N	2.44	0.51
1:A:2349:GLY:O	1:A:2352:PRO:CD	2.55	0.51
1:A:2564:ALA:HA	1:A:2567:VAL:HG21	1.90	0.51
1:D:67:SER:HA	1:D:70:LYS:HZ2	1.76	0.51
1:D:830:LYS:O	1:D:834:ALA:N	2.39	0.51
1:D:1093:VAL:O	1:D:1097:PHE:N	2.40	0.51
1:C:493:ASP:OD1	1:C:558:ARG:NH1	2.43	0.51
1:C:2656:TYR:HB3	1:C:2660:GLU:HG3	1.92	0.51
1:C:2730:LYS:HZ3	1:C:2730:LYS:C	2.14	0.51
1:B:1345:TYR:C	1:B:1349:ALA:H	2.19	0.51
1:B:2249:ASP:OD2	1:B:2382:GLY:CA	2.59	0.51
1:B:2266:LEU:O	1:B:2269:CYS:N	2.44	0.51
1:B:2656:TYR:HB3	1:B:2660:GLU:HG3	1.92	0.51
1:B:2707:LYS:HZ2	1:B:2707:LYS:CB	2.24	0.51
1:B:2718:GLU:O	1:B:2721:ASP:CG	2.53	0.51
1:A:522:LEU:HD12	1:A:522:LEU:C	2.29	0.51
1:A:530:CYS:CB	1:A:541:LEU:HD11	2.38	0.51
1:D:260:GLN:NE2	1:D:355:LEU:O	2.34	0.51
1:D:621:LEU:O	1:D:625:ASN:N	2.39	0.51
1:D:2249:ASP:OD2	1:D:2382:GLY:CA	2.59	0.51
1:C:475:LYS:HA	1:C:478:GLU:HB3	1.92	0.51
1:B:510:MET:SD	1:B:515:ILE:CD1	2.95	0.51
1:B:2706:MET:SD	1:B:2707:LYS:N	2.84	0.51
1:A:584:GLN:C	1:A:585:ILE:CG1	2.83	0.51
1:A:2287:MET:SD	1:A:2287:MET:C	2.93	0.51
1:D:749:TYR:O	1:D:753:ASN:N	2.42	0.51
1:D:2266:LEU:O	1:D:2269:CYS:N	2.44	0.51
1:D:2397:LEU:N	1:D:2397:LEU:CD2	2.72	0.51
1:C:859:LYS:O	1:C:863:THR:N	2.44	0.51
1:C:2243:PHE:CE2	1:C:2613:ILE:HG21	2.46	0.51
1:C:2384:ARG:HB3	1:C:2387:VAL:HG12	1.91	0.51
1:C:2706:MET:SD	1:C:2707:LYS:N	2.84	0.51
1:B:2200:ARG:NE	1:B:2206:GLU:OE2	2.37	0.51
1:B:2276:TRP:CA	1:B:2368:PHE:CG	2.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2266:LEU:H	1:A:2266:LEU:CD1	2.14	0.51
1:A:2276:TRP:CA	1:A:2368:PHE:CG	2.94	0.51
1:D:1805:SER:O	1:D:1809:ILE:N	2.39	0.51
1:D:2176:PRO:C	1:D:2186:LEU:HD13	2.23	0.51
1:C:2243:PHE:HZ	1:C:2612:PHE:CE2	1.76	0.51
1:C:2249:ASP:OD2	1:C:2382:GLY:CA	2.59	0.51
1:B:584:GLN:C	1:B:585:ILE:CG1	2.83	0.51
1:B:2707:LYS:CB	1:B:2707:LYS:NZ	2.73	0.51
1:A:394:CYS:SG	1:D:2737:GLY:HA2	2.51	0.51
1:D:859:LYS:O	1:D:863:THR:N	2.44	0.51
1:D:2401:ILE:HD11	1:D:2416:LEU:CB	2.30	0.51
1:C:461:GLU:CG	1:C:525:ALA:C	2.71	0.51
1:B:2266:LEU:H	1:B:2266:LEU:CD1	2.14	0.50
1:A:299:TRP:CE3	1:A:381:LEU:CD2	2.94	0.50
1:A:520:PHE:CE2	1:A:576:LYS:NZ	2.66	0.50
1:A:859:LYS:O	1:A:863:THR:N	2.44	0.50
1:C:15:CYS:N	1:C:58:PHE:O	2.42	0.50
1:B:116:GLN:HB3	1:B:173:GLY:HA2	1.92	0.50
1:B:524:GLN:HB3	1:B:580:PHE:CZ	2.46	0.50
1:B:617:THR:O	1:B:621:LEU:N	2.41	0.50
1:B:2084:LEU:O	1:B:2088:LEU:N	2.36	0.50
1:B:2396:LEU:HD12	1:B:2396:LEU:C	2.35	0.50
1:A:364:ILE:HG23	1:A:393:LEU:HD11	1.92	0.50
1:A:2005:GLN:O	1:A:2009:CYS:N	2.43	0.50
1:D:516:LEU:H	1:D:516:LEU:CD2	1.94	0.50
1:D:2581:VAL:HG23	1:D:2582:LEU:HD22	1.93	0.50
1:D:2618:ARG:HG2	1:D:2628:PHE:CE1	2.33	0.50
1:C:2110:GLU:O	1:C:2114:TYR:N	2.42	0.50
1:B:2153:GLY:O	1:B:2157:TYR:N	2.41	0.50
1:B:2243:PHE:CE2	1:B:2613:ILE:HG21	2.46	0.50
1:B:2731:GLN:OE1	1:B:2731:GLN:HA	2.11	0.50
1:A:196:SER:OG	1:A:207:ASN:OD1	2.30	0.50
1:A:2232:GLU:HB2	1:A:2242:ASP:CG	2.33	0.50
1:A:2243:PHE:CE2	1:A:2613:ILE:HG21	2.46	0.50
1:A:2249:ASP:OD2	1:A:2382:GLY:CA	2.59	0.50
1:A:2368:PHE:O	1:A:2369:LEU:C	2.55	0.50
1:D:711:SER:O	1:D:715:LEU:N	2.41	0.50
1:D:2706:MET:SD	1:D:2707:LYS:N	2.84	0.50
1:C:116:GLN:HB3	1:C:173:GLY:HA2	1.92	0.50
1:C:1345:TYR:C	1:C:1349:ALA:H	2.19	0.50
1:C:2581:VAL:HG23	1:C:2582:LEU:HD22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2707:LYS:HZ2	1:C:2707:LYS:CB	2.24	0.50
1:B:520:PHE:CZ	1:B:576:LYS:CD	2.92	0.50
1:B:2379:PHE:CD2	1:B:2392:PHE:CZ	2.99	0.50
1:B:2581:VAL:HG23	1:B:2582:LEU:HD22	1.93	0.50
1:D:249:LYS:NZ	1:D:263:PHE:O	2.42	0.50
1:D:2243:PHE:CE2	1:D:2613:ILE:HG21	2.46	0.50
1:C:66:TYR:CA	1:C:156:ASN:CG	2.83	0.50
1:C:520:PHE:CZ	1:C:576:LYS:CD	2.92	0.50
1:C:2420:LEU:C	1:C:2420:LEU:CD1	2.85	0.50
1:A:2618:ARG:HD2	1:A:2628:PHE:HZ	0.68	0.50
1:D:713:ARG:O	1:D:717:GLN:N	2.39	0.50
1:D:2240:ILE:CD1	1:D:2672:LEU:CD1	2.45	0.50
1:C:392:HIS:HE1	1:C:397:THR:N	1.83	0.50
1:C:530:CYS:CB	1:C:541:LEU:HD11	2.38	0.50
1:C:1195:ARG:O	1:C:1199:LYS:N	2.44	0.50
1:C:1249:GLN:O	1:C:1253:ALA:N	2.42	0.50
1:C:1345:TYR:O	1:C:1349:ALA:N	2.44	0.50
1:C:2276:TRP:CA	1:C:2368:PHE:CG	2.94	0.50
1:C:2731:GLN:OE1	1:C:2731:GLN:HA	2.11	0.50
1:B:66:TYR:CA	1:B:156:ASN:CG	2.83	0.50
1:B:1407:VAL:O	1:B:1411:THR:N	2.38	0.50
1:B:2251:PHE:C	1:B:2251:PHE:CD1	2.85	0.50
1:B:2275:PHE:HD1	1:B:2275:PHE:C	2.13	0.50
1:A:1195:ARG:O	1:A:1199:LYS:N	2.44	0.50
1:C:711:SER:O	1:C:715:LEU:N	2.41	0.50
1:C:2176:PRO:CA	1:C:2186:LEU:HD11	2.40	0.50
1:B:299:TRP:CB	1:B:381:LEU:HA	2.42	0.50
1:A:2081:ARG:O	1:A:2085:VAL:N	2.36	0.50
1:A:2176:PRO:C	1:A:2186:LEU:HD13	2.23	0.50
1:A:2379:PHE:CD2	1:A:2392:PHE:CZ	2.99	0.50
1:D:1249:GLN:O	1:D:1253:ALA:N	2.41	0.50
1:D:2250:LEU:C	1:D:2250:LEU:CD1	2.85	0.50
1:D:2276:TRP:CA	1:D:2368:PHE:CG	2.94	0.50
1:D:2400:LEU:O	1:D:2401:ILE:C	2.54	0.50
1:D:2733:ILE:O	1:D:2733:ILE:HG13	2.06	0.50
1:C:614:GLU:O	1:C:618:PHE:N	2.39	0.50
1:C:2219:LEU:HD21	1:C:2223:SER:CB	2.40	0.50
1:C:2401:ILE:HD11	1:C:2416:LEU:CB	2.30	0.50
1:B:249:LYS:NZ	1:B:263:PHE:O	2.42	0.50
1:B:592:GLU:O	1:B:596:THR:N	2.40	0.50
1:B:1979:ASN:C	1:B:1981:ASN:N	2.61	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:GLN:HB3	1:A:580:PHE:CZ	2.46	0.50
1:A:592:GLU:O	1:A:596:THR:N	2.40	0.50
1:A:1345:TYR:C	1:A:1349:ALA:H	2.19	0.50
1:A:2110:GLU:O	1:A:2114:TYR:N	2.42	0.50
1:A:2121:LEU:O	1:A:2125:ILE:N	2.44	0.50
1:A:2187:GLU:OE1	1:A:2187:GLU:N	2.45	0.50
1:A:2288:ASN:ND2	1:A:2414:SER:N	2.47	0.50
1:A:2368:PHE:HZ	1:A:2398:TYR:HE2	1.58	0.50
1:C:364:ILE:HG23	1:C:393:LEU:CD1	2.42	0.50
1:C:749:TYR:O	1:C:753:ASN:N	2.42	0.50
1:C:1241:LEU:O	1:C:1245:CYS:N	2.37	0.50
1:C:2005:GLN:O	1:C:2009:CYS:N	2.43	0.50
1:C:2250:LEU:C	1:C:2250:LEU:CD1	2.85	0.50
1:C:2288:ASN:OD1	1:C:2413:TYR:O	2.30	0.50
1:B:364:ILE:HG23	1:B:393:LEU:CD1	2.42	0.50
1:B:584:GLN:O	1:B:585:ILE:HG12	2.12	0.50
1:B:2358:GLY:HA2	1:B:2413:TYR:HH	1.74	0.50
1:B:2549:VAL:HG12	1:B:2550:GLY:H	1.74	0.50
1:A:364:ILE:HG21	1:D:2737:GLY:CA	2.40	0.50
1:A:2349:GLY:C	1:A:2352:PRO:HD2	2.37	0.50
1:A:2625:THR:C	1:A:2627:THR:N	2.70	0.50
1:D:2731:GLN:OE1	1:D:2731:GLN:HA	2.11	0.50
1:D:2735:LEU:C	1:D:2735:LEU:CD2	2.85	0.50
1:C:299:TRP:CB	1:C:381:LEU:HA	2.42	0.50
1:C:2232:GLU:HB2	1:C:2242:ASP:CG	2.33	0.50
1:B:364:ILE:HG23	1:B:393:LEU:HD11	1.93	0.49
1:B:461:GLU:CD	1:B:528:THR:HG1	2.15	0.49
1:B:2005:GLN:O	1:B:2009:CYS:N	2.44	0.49
1:A:1805:SER:O	1:A:1809:ILE:N	2.39	0.49
1:A:2406:LEU:HD23	1:A:2407:PHE:CZ	2.39	0.49
1:A:2581:VAL:HG23	1:A:2582:LEU:HD22	1.93	0.49
1:D:530:CYS:CB	1:D:541:LEU:HD11	2.38	0.49
1:D:592:GLU:O	1:D:596:THR:N	2.40	0.49
1:D:2176:PRO:CA	1:D:2186:LEU:HD11	2.40	0.49
1:D:2368:PHE:HZ	1:D:2398:TYR:HE2	1.58	0.49
1:D:2420:LEU:C	1:D:2420:LEU:CD1	2.85	0.49
1:D:2625:THR:C	1:D:2627:THR:N	2.70	0.49
1:D:2699:GLN:CB	1:C:2700:GLU:CD	2.84	0.49
1:C:299:TRP:CE3	1:C:381:LEU:CD2	2.93	0.49
1:C:364:ILE:HG23	1:C:393:LEU:HD11	1.93	0.49
1:C:2279:ILE:HD13	1:C:2364:ASN:CG	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2358:GLY:HA2	1:C:2413:TYR:HH	1.74	0.49
1:C:2369:LEU:C	1:C:2369:LEU:CD2	2.84	0.49
1:C:2735:LEU:C	1:C:2735:LEU:CD2	2.85	0.49
1:A:2396:LEU:HD12	1:A:2396:LEU:C	2.35	0.49
1:D:2379:PHE:CE1	1:D:2392:PHE:HE1	2.24	0.49
1:C:524:GLN:HB3	1:C:580:PHE:CZ	2.46	0.49
1:C:791:ASP:O	1:C:792:ARG:O	2.30	0.49
1:C:2396:LEU:HD12	1:C:2396:LEU:C	2.35	0.49
1:C:2733:ILE:O	1:C:2733:ILE:HG13	2.06	0.49
1:B:131:TYR:OH	1:B:154:ALA:O	2.22	0.49
1:B:2129:TYR:O	1:B:2133:GLU:N	2.45	0.49
1:B:2240:ILE:CD1	1:B:2672:LEU:CD1	2.45	0.49
1:B:2250:LEU:C	1:B:2250:LEU:CD1	2.85	0.49
1:B:2532:LEU:HD21	1:C:2295:TYR:CD2	2.47	0.49
1:A:2420:LEU:C	1:A:2420:LEU:CD1	2.85	0.49
1:D:827:ASP:O	1:D:831:GLU:N	2.40	0.49
1:D:2572:LEU:CD1	1:D:2572:LEU:C	2.85	0.49
1:C:2625:THR:C	1:C:2627:THR:N	2.70	0.49
1:B:2187:GLU:N	1:B:2187:GLU:OE1	2.45	0.49
1:B:2420:LEU:C	1:B:2420:LEU:CD1	2.85	0.49
1:B:2622:ASP:HB3	1:B:2628:PHE:HB2	1.94	0.49
1:B:2689:GLU:HG3	1:B:2692:GLN:HE22	1.78	0.49
1:A:1669:GLU:O	1:A:1673:ILE:N	2.42	0.49
1:A:2250:LEU:C	1:A:2250:LEU:CD1	2.85	0.49
1:A:2731:GLN:HA	1:A:2731:GLN:OE1	2.11	0.49
1:D:394:CYS:SG	1:C:2737:GLY:HA2	2.52	0.49
1:D:2249:ASP:CG	1:D:2382:GLY:CA	2.86	0.49
1:D:2368:PHE:CZ	1:D:2395:HIS:HE1	2.23	0.49
1:C:2188:PHE:C	1:C:2191:LYS:H	2.21	0.49
1:C:2189:TYR:CZ	1:C:2193:THR:OG1	2.63	0.49
1:C:2400:LEU:O	1:C:2401:ILE:C	2.54	0.49
1:B:15:CYS:N	1:B:58:PHE:O	2.42	0.49
1:B:1036:GLN:O	1:B:1040:ILE:N	2.46	0.49
1:A:299:TRP:CB	1:A:381:LEU:HA	2.42	0.49
1:D:364:ILE:HG23	1:D:393:LEU:HD11	1.93	0.49
1:D:2187:GLU:O	1:D:2190:ALA:N	2.46	0.49
1:D:2549:VAL:HG12	1:D:2550:GLY:H	1.74	0.49
1:C:966:MET:O	1:C:970:THR:N	2.42	0.49
1:C:2187:GLU:O	1:C:2190:ALA:N	2.46	0.49
1:C:2406:LEU:HD23	1:C:2407:PHE:CZ	2.39	0.49
1:B:72:PHE:CD1	1:B:92:LEU:HD13	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2368:PHE:O	1:B:2369:LEU:C	2.55	0.49
1:B:2618:ARG:HH22	1:A:2236:GLN:CG	2.26	0.49
1:B:2624:LYS:NZ	1:B:2624:LYS:C	2.71	0.49
1:A:1345:TYR:O	1:A:1349:ALA:N	2.44	0.49
1:A:2689:GLU:HG3	1:A:2692:GLN:HE22	1.78	0.49
1:D:364:ILE:HG23	1:D:393:LEU:CD1	2.42	0.49
1:D:1036:GLN:O	1:D:1040:ILE:N	2.46	0.49
1:D:1345:TYR:C	1:D:1349:ALA:H	2.19	0.49
1:D:2288:ASN:OD1	1:D:2413:TYR:O	2.30	0.49
1:C:2153:GLY:O	1:C:2157:TYR:N	2.41	0.49
1:C:2618:ARG:HG2	1:C:2628:PHE:CE1	2.33	0.49
1:B:299:TRP:CE3	1:B:381:LEU:CD2	2.94	0.49
1:A:364:ILE:HG23	1:A:393:LEU:CD1	2.42	0.49
1:A:2192:HIS:NE2	1:A:2210:PHE:O	2.46	0.49
1:D:524:GLN:HB3	1:D:580:PHE:CZ	2.46	0.49
1:C:2349:GLY:C	1:C:2352:PRO:HD2	2.37	0.49
1:B:2187:GLU:O	1:B:2190:ALA:N	2.46	0.49
1:B:2192:HIS:NE2	1:B:2210:PHE:O	2.46	0.49
1:B:2379:PHE:CE1	1:B:2392:PHE:HE1	2.24	0.49
1:C:1979:ASN:C	1:C:1981:ASN:N	2.61	0.49
1:C:2368:PHE:O	1:C:2369:LEU:C	2.55	0.49
1:C:2622:ASP:OD2	1:C:2628:PHE:CA	2.31	0.49
1:B:530:CYS:CA	1:B:541:LEU:HD11	2.43	0.49
1:B:587:TYR:O	1:B:588:ASP:O	2.30	0.49
1:B:2410:GLU:CD	1:B:2410:GLU:N	2.71	0.49
1:A:965:ILE:O	1:A:969:ASP:N	2.39	0.49
1:A:2384:ARG:O	1:A:2388:LEU:HD23	2.03	0.49
1:A:2622:ASP:HB3	1:A:2628:PHE:HB2	1.94	0.49
1:D:196:SER:OG	1:D:207:ASN:OD1	2.30	0.49
1:D:299:TRP:CB	1:D:381:LEU:HA	2.42	0.49
1:D:2187:GLU:OE1	1:D:2187:GLU:N	2.45	0.49
1:D:2349:GLY:C	1:D:2352:PRO:HD2	2.37	0.49
1:C:587:TYR:O	1:C:588:ASP:O	2.30	0.49
1:C:2026:ASN:O	1:C:2030:VAL:N	2.46	0.49
1:C:2240:ILE:HA	1:C:2243:PHE:CD2	2.47	0.49
1:B:461:GLU:CG	1:B:525:ALA:C	2.71	0.49
1:B:749:TYR:O	1:B:753:ASN:N	2.42	0.49
1:B:2176:PRO:C	1:B:2186:LEU:HD13	2.23	0.49
1:B:2706:MET:HE2	1:A:2707:LYS:HE3	1.94	0.49
1:A:587:TYR:O	1:A:588:ASP:O	2.30	0.49
1:A:2129:TYR:O	1:A:2133:GLU:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2624:LYS:NZ	1:A:2624:LYS:C	2.71	0.49
1:A:2707:LYS:O	1:A:2711:ASN:ND2	2.46	0.49
1:D:1345:TYR:O	1:D:1349:ALA:N	2.44	0.49
1:D:2624:LYS:CE	1:D:2624:LYS:CA	2.85	0.49
1:D:2706:MET:HB2	1:C:2711:ASN:ND2	2.27	0.49
1:C:2249:ASP:CG	1:C:2382:GLY:CA	2.86	0.49
1:C:2368:PHE:CZ	1:C:2395:HIS:HE1	2.23	0.49
1:B:248:GLU:OE1	1:B:271:SER:N	2.46	0.48
1:B:285:GLU:OE1	1:B:293:ARG:NH2	2.46	0.48
1:B:2026:ASN:O	1:B:2030:VAL:N	2.46	0.48
1:B:2245:LEU:CD1	1:B:2383:TYR:CG	2.96	0.48
1:A:791:ASP:O	1:A:792:ARG:O	2.30	0.48
1:A:1858:LYS:O	1:A:1862:ASP:N	2.44	0.48
1:A:1994:LYS:C	1:A:1996:ASN:N	2.71	0.48
1:A:2187:GLU:O	1:A:2190:ALA:N	2.46	0.48
1:D:567:TYR:O	1:D:571:GLN:NE2	2.46	0.48
1:D:791:ASP:O	1:D:792:ARG:O	2.30	0.48
1:D:2275:PHE:C	1:D:2277:SER:N	2.67	0.48
1:C:713:ARG:O	1:C:717:GLN:N	2.39	0.48
1:C:2410:GLU:CD	1:C:2410:GLU:N	2.71	0.48
1:B:2624:LYS:CE	1:B:2624:LYS:CA	2.85	0.48
1:B:2707:LYS:HE3	1:C:2706:MET:CG	2.35	0.48
1:B:2707:LYS:O	1:B:2711:ASN:ND2	2.46	0.48
1:D:2689:GLU:HG3	1:D:2692:GLN:HE22	1.78	0.48
1:D:2707:LYS:O	1:D:2711:ASN:ND2	2.46	0.48
1:C:2245:LEU:CD1	1:C:2383:TYR:CE2	2.96	0.48
1:C:2266:LEU:O	1:C:2269:CYS:N	2.44	0.48
1:C:2689:GLU:HG3	1:C:2692:GLN:HE22	1.78	0.48
1:B:162:TYR:OH	1:B:185:ASN:ND2	2.46	0.48
1:B:2288:ASN:OD1	1:B:2413:TYR:O	2.30	0.48
1:B:2368:PHE:HZ	1:B:2398:TYR:HE2	1.58	0.48
1:B:2406:LEU:CG	1:B:2407:PHE:CE2	2.97	0.48
1:B:2706:MET:HB2	1:A:2707:LYS:CG	2.44	0.48
1:B:2735:LEU:C	1:B:2735:LEU:CD2	2.85	0.48
1:A:162:TYR:HD2	1:A:164:GLN:HE22	1.62	0.48
1:A:1036:GLN:O	1:A:1040:ILE:N	2.46	0.48
1:A:2176:PRO:CA	1:A:2186:LEU:HD11	2.40	0.48
1:D:162:TYR:OH	1:D:185:ASN:ND2	2.46	0.48
1:D:302:LEU:CD1	1:C:2733:ILE:HB	2.43	0.48
1:D:2368:PHE:O	1:D:2369:LEU:C	2.55	0.48
1:D:2622:ASP:HB3	1:D:2628:PHE:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2624:LYS:NZ	1:C:2624:LYS:C	2.71	0.48
1:B:521:LYS:HG3	1:B:524:GLN:NE2	2.29	0.48
1:B:1345:TYR:C	1:B:1349:ALA:N	2.72	0.48
1:A:162:TYR:OH	1:A:185:ASN:ND2	2.46	0.48
1:A:2184:GLU:OE2	1:A:2188:PHE:HD2	1.96	0.48
1:A:2245:LEU:CD1	1:A:2383:TYR:CE2	2.96	0.48
1:D:587:TYR:O	1:D:588:ASP:O	2.30	0.48
1:D:2188:PHE:C	1:D:2191:LYS:H	2.21	0.48
1:D:2245:LEU:HD13	1:D:2383:TYR:CD2	2.48	0.48
1:C:584:GLN:C	1:C:585:ILE:CG1	2.83	0.48
1:C:2187:GLU:OE1	1:C:2187:GLU:N	2.45	0.48
1:C:2192:HIS:NE2	1:C:2210:PHE:O	2.46	0.48
1:C:2365:LYS:HA	1:C:2368:PHE:CZ	2.47	0.48
1:C:2622:ASP:HB3	1:C:2628:PHE:HB2	1.94	0.48
1:C:2707:LYS:O	1:C:2711:ASN:ND2	2.46	0.48
1:B:162:TYR:HD2	1:B:164:GLN:HE22	1.62	0.48
1:B:736:GLN:O	1:B:740:PHE:N	2.38	0.48
1:B:2706:MET:HB2	1:A:2711:ASN:ND2	2.28	0.48
1:A:530:CYS:CA	1:A:541:LEU:HD11	2.43	0.48
1:A:713:ARG:O	1:A:717:GLN:N	2.39	0.48
1:A:2245:LEU:HD13	1:A:2383:TYR:CD2	2.48	0.48
1:A:2288:ASN:OD1	1:A:2413:TYR:O	2.30	0.48
1:A:2365:LYS:HA	1:A:2368:PHE:CZ	2.47	0.48
1:D:248:GLU:OE1	1:D:271:SER:N	2.47	0.48
1:D:2026:ASN:O	1:D:2030:VAL:N	2.46	0.48
1:D:2192:HIS:NE2	1:D:2210:PHE:O	2.46	0.48
1:D:2219:LEU:HD21	1:D:2223:SER:CB	2.40	0.48
1:C:248:GLU:OE1	1:C:271:SER:N	2.47	0.48
1:C:364:ILE:HG22	1:C:393:LEU:CD2	2.40	0.48
1:C:1036:GLN:O	1:C:1040:ILE:N	2.46	0.48
1:C:2549:VAL:HG12	1:C:2550:GLY:H	1.74	0.48
1:B:966:MET:O	1:B:970:THR:N	2.42	0.48
1:B:2176:PRO:CA	1:B:2186:LEU:HD11	2.40	0.48
1:A:1803:GLY:C	1:A:1805:SER:N	2.70	0.48
1:A:2706:MET:HB2	1:D:2707:LYS:CG	2.43	0.48
1:D:1195:ARG:O	1:D:1199:LYS:N	2.44	0.48
1:D:2583:ASN:O	1:D:2587:GLY:N	2.47	0.48
1:C:567:TYR:O	1:C:571:GLN:NE2	2.46	0.48
1:B:2189:TYR:CZ	1:B:2193:THR:OG1	2.63	0.48
1:B:2249:ASP:CG	1:B:2382:GLY:CA	2.86	0.48
1:B:2365:LYS:HA	1:B:2368:PHE:CZ	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:GLU:OE1	1:A:271:SER:N	2.47	0.48
1:A:554:ARG:NH2	1:A:588:ASP:C	2.64	0.48
1:A:2240:ILE:HA	1:A:2243:PHE:CD2	2.47	0.48
1:D:2189:TYR:CZ	1:D:2193:THR:OG1	2.63	0.48
1:D:2245:LEU:CD1	1:D:2383:TYR:CE2	2.96	0.48
1:D:2417:LEU:C	1:D:2417:LEU:CD1	2.85	0.48
1:C:162:TYR:HD2	1:C:164:GLN:HE22	1.62	0.48
1:C:285:GLU:OE1	1:C:293:ARG:NH2	2.46	0.48
1:C:2184:GLU:OE2	1:C:2188:PHE:HD2	1.96	0.48
1:B:713:ARG:O	1:B:717:GLN:N	2.39	0.48
1:A:360:GLU:OE2	1:A:362:ASN:ND2	2.47	0.48
1:A:521:LYS:HG3	1:A:524:GLN:NE2	2.29	0.48
1:A:2400:LEU:HD23	1:A:2401:ILE:CA	2.44	0.48
1:A:2416:LEU:C	1:A:2416:LEU:CD1	2.85	0.48
1:D:521:LYS:HG3	1:D:524:GLN:NE2	2.29	0.48
1:C:837:MET:O	1:C:841:GLU:N	2.46	0.48
1:C:2129:TYR:O	1:C:2133:GLU:N	2.45	0.48
1:C:2416:LEU:C	1:C:2416:LEU:CD1	2.85	0.48
1:B:530:CYS:CB	1:B:541:LEU:HG	2.44	0.48
1:B:2144:ASP:H	1:B:2651:LYS:CB	1.94	0.48
1:B:2245:LEU:CD1	1:B:2383:TYR:CE2	2.96	0.48
1:B:2349:GLY:C	1:B:2352:PRO:HD2	2.37	0.48
1:B:2400:LEU:O	1:B:2401:ILE:C	2.54	0.48
1:A:605:LEU:O	1:A:609:HIS:N	2.43	0.48
1:D:963:GLU:O	1:D:967:VAL:N	2.46	0.48
1:D:1345:TYR:C	1:D:1349:ALA:N	2.72	0.48
1:D:1994:LYS:C	1:D:1996:ASN:N	2.71	0.48
1:D:2240:ILE:HA	1:D:2243:PHE:CD2	2.47	0.48
1:D:2410:GLU:CD	1:D:2410:GLU:N	2.71	0.48
1:C:2624:LYS:CE	1:C:2624:LYS:CA	2.85	0.48
1:B:70:LYS:HB3	1:B:70:LYS:HZ3	1.78	0.48
1:B:1241:LEU:O	1:B:1245:CYS:N	2.37	0.48
1:B:1858:LYS:O	1:B:1862:ASP:N	2.44	0.48
1:A:2188:PHE:C	1:A:2191:LYS:H	2.21	0.48
1:A:2273:MET:HE3	1:A:2274:SER:CA	2.43	0.48
1:D:162:TYR:HD2	1:D:164:GLN:HE22	1.62	0.48
1:D:285:GLU:OE1	1:D:293:ARG:NH2	2.46	0.48
1:D:360:GLU:OE2	1:D:362:ASN:ND2	2.47	0.48
1:D:530:CYS:CA	1:D:541:LEU:HD11	2.43	0.48
1:D:538:LEU:O	1:D:543:ASP:N	2.46	0.48
1:D:2129:TYR:O	1:D:2133:GLU:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2218:PHE:HB2	1:D:2258:LYS:HZ3	1.78	0.48
1:C:249:LYS:NZ	1:C:263:PHE:O	2.42	0.48
1:C:2200:ARG:NE	1:C:2206:GLU:OE2	2.37	0.48
1:C:2245:LEU:HD13	1:C:2383:TYR:CD2	2.48	0.48
1:C:2651:LYS:NZ	1:C:2654:THR:O	2.40	0.48
1:B:567:TYR:O	1:B:571:GLN:NE2	2.46	0.47
1:B:791:ASP:O	1:B:792:ARG:O	2.30	0.47
1:B:2245:LEU:HD13	1:B:2383:TYR:CD2	2.48	0.47
1:B:2400:LEU:HD23	1:B:2401:ILE:CA	2.44	0.47
1:B:2564:ALA:HA	1:B:2567:VAL:HG22	1.96	0.47
1:A:285:GLU:OE1	1:A:293:ARG:NH2	2.46	0.47
1:D:1858:LYS:O	1:D:1862:ASP:N	2.44	0.47
1:D:2184:GLU:OE2	1:D:2188:PHE:HD2	1.96	0.47
1:D:2200:ARG:NE	1:D:2206:GLU:OE2	2.37	0.47
1:D:2273:MET:HE3	1:D:2273:MET:O	2.14	0.47
1:C:521:LYS:HG3	1:C:524:GLN:NE2	2.29	0.47
1:C:2564:ALA:HA	1:C:2567:VAL:HG22	1.96	0.47
1:B:360:GLU:OE2	1:B:362:ASN:ND2	2.47	0.47
1:B:1979:ASN:O	1:B:1981:ASN:C	2.57	0.47
1:B:2548:GLY:HA3	1:B:2551:ASP:CG	2.39	0.47
1:A:2288:ASN:CG	1:A:2413:TYR:O	2.57	0.47
1:D:2730:LYS:HZ3	1:D:2730:LYS:C	2.15	0.47
1:C:360:GLU:OE2	1:C:362:ASN:ND2	2.47	0.47
1:C:584:GLN:O	1:C:585:ILE:HG12	2.12	0.47
1:C:1345:TYR:C	1:C:1349:ALA:N	2.72	0.47
1:B:2184:GLU:OE2	1:B:2188:PHE:HD2	1.96	0.47
1:B:2240:ILE:HA	1:B:2243:PHE:CD2	2.47	0.47
1:A:2249:ASP:CG	1:A:2382:GLY:CA	2.86	0.47
1:A:2346:PHE:HA	1:A:2350:LEU:HD11	1.97	0.47
1:A:2406:LEU:CG	1:A:2407:PHE:CE2	2.97	0.47
1:A:2410:GLU:CD	1:A:2410:GLU:N	2.71	0.47
1:A:2417:LEU:C	1:A:2417:LEU:CD1	2.85	0.47
1:A:2730:LYS:HZ2	1:A:2730:LYS:HG3	1.49	0.47
1:D:69:GLN:HE22	1:D:99:GLU:CD	2.23	0.47
1:D:510:MET:CG	1:D:516:LEU:HD11	2.29	0.47
1:D:2406:LEU:CG	1:D:2407:PHE:CE2	2.97	0.47
1:D:2622:ASP:OD2	1:D:2628:PHE:CA	2.31	0.47
1:D:2624:LYS:NZ	1:D:2624:LYS:C	2.71	0.47
1:C:68:ALA:HB3	1:C:69:GLN:HE22	1.79	0.47
1:C:2273:MET:HE3	1:C:2273:MET:O	2.14	0.47
1:C:2400:LEU:HD23	1:C:2401:ILE:CA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2548:GLY:HA3	1:C:2551:ASP:CG	2.39	0.47
1:A:2026:ASN:O	1:A:2030:VAL:N	2.46	0.47
1:A:2735:LEU:C	1:A:2735:LEU:CD2	2.85	0.47
1:D:2369:LEU:C	1:D:2369:LEU:CD2	2.85	0.47
1:D:2416:LEU:C	1:D:2416:LEU:CD1	2.85	0.47
1:D:2581:VAL:C	1:D:2583:ASN:N	2.70	0.47
1:C:2566:ARG:C	1:C:2566:ARG:CD	2.85	0.47
1:C:2708:LEU:HD13	1:C:2709:VAL:HG22	1.93	0.47
1:A:530:CYS:CB	1:A:541:LEU:HG	2.44	0.47
1:A:567:TYR:O	1:A:571:GLN:NE2	2.46	0.47
1:A:2273:MET:HE3	1:A:2273:MET:O	2.14	0.47
1:A:2287:MET:HB3	1:A:2287:MET:HE3	1.49	0.47
1:A:2708:LEU:HD13	1:A:2709:VAL:HG22	1.93	0.47
1:D:530:CYS:CB	1:D:541:LEU:HG	2.44	0.47
1:D:2276:TRP:CG	1:D:2368:PHE:CE1	2.95	0.47
1:D:2549:VAL:CG1	1:D:2550:GLY:N	2.40	0.47
1:C:162:TYR:OH	1:C:185:ASN:ND2	2.46	0.47
1:C:530:CYS:CA	1:C:541:LEU:HD11	2.43	0.47
1:C:2212:VAL:HA	1:C:2213:PRO:HD3	1.31	0.47
1:C:2400:LEU:C	1:C:2400:LEU:CD2	2.85	0.47
1:C:2572:LEU:CD1	1:C:2572:LEU:C	2.86	0.47
1:C:2581:VAL:C	1:C:2583:ASN:N	2.70	0.47
1:C:2694:GLU:C	1:C:2698:LEU:CD2	2.87	0.47
1:A:117:TYR:CZ	1:A:176:VAL:HG12	2.50	0.47
1:A:147:MET:HE2	1:A:147:MET:HB2	1.85	0.47
1:A:2548:GLY:HA3	1:A:2551:ASP:CG	2.39	0.47
1:A:2564:ALA:HA	1:A:2567:VAL:HG22	1.96	0.47
1:D:517:LYS:H	1:D:517:LYS:HG3	1.42	0.47
1:D:763:LEU:O	1:D:766:ARG:N	2.48	0.47
1:D:1979:ASN:O	1:D:1981:ASN:C	2.57	0.47
1:D:2722:GLN:CD	1:D:2722:GLN:N	2.73	0.47
1:C:763:LEU:O	1:C:766:ARG:N	2.48	0.47
1:C:2358:GLY:CA	1:C:2413:TYR:OH	2.57	0.47
1:B:461:GLU:HB3	1:B:525:ALA:HB1	1.95	0.47
1:B:605:LEU:O	1:B:609:HIS:N	2.44	0.47
1:B:763:LEU:O	1:B:766:ARG:N	2.48	0.47
1:B:2013:SER:O	1:B:2015:THR:N	2.43	0.47
1:B:2341:ILE:HA	1:B:2344:LEU:HD11	1.97	0.47
1:B:2351:GLN:H	1:B:2352:PRO:CD	2.19	0.47
1:A:15:CYS:N	1:A:58:PHE:O	2.42	0.47
1:A:515:ILE:HG13	1:A:516:LEU:CD2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1979:ASN:O	1:A:1981:ASN:C	2.57	0.47
1:A:2624:LYS:HA	1:A:2624:LYS:HZ2	1.78	0.47
1:D:2346:PHE:HA	1:D:2350:LEU:HD11	1.96	0.47
1:D:2699:GLN:HE21	1:D:2699:GLN:HA	1.80	0.47
1:C:69:GLN:HE22	1:C:99:GLU:CD	2.23	0.47
1:C:127:LYS:HE3	1:C:440:VAL:HG13	1.97	0.47
1:C:517:LYS:H	1:C:517:LYS:HG3	1.42	0.47
1:C:2361:ASN:ND2	1:C:2361:ASN:C	2.72	0.47
1:C:2602:LYS:HB3	1:C:2602:LYS:HE3	1.73	0.47
1:C:2699:GLN:HA	1:C:2699:GLN:HE21	1.80	0.47
1:B:68:ALA:HB3	1:B:69:GLN:HE22	1.79	0.47
1:B:300:ASN:ND2	1:B:300:ASN:C	2.73	0.47
1:B:392:HIS:HE1	1:B:397:THR:N	1.83	0.47
1:B:521:LYS:HB2	1:B:521:LYS:HZ1	1.76	0.47
1:B:2189:TYR:HD1	1:B:2190:ALA:N	2.04	0.47
1:B:2273:MET:HE3	1:B:2273:MET:O	2.14	0.47
1:B:2416:LEU:C	1:B:2416:LEU:CD1	2.85	0.47
1:A:69:GLN:HE22	1:A:99:GLU:CD	2.23	0.47
1:A:2361:ASN:C	1:A:2361:ASN:ND2	2.72	0.47
1:A:2537:THR:O	1:A:2541:HIS:N	2.46	0.47
1:D:2365:LYS:HA	1:D:2368:PHE:CZ	2.47	0.47
1:C:2218:PHE:HB2	1:C:2258:LYS:HZ3	1.80	0.47
1:B:74:LYS:HE2	1:B:74:LYS:HB2	1.36	0.47
1:B:117:TYR:CZ	1:B:176:VAL:HG12	2.50	0.47
1:B:2121:LEU:O	1:B:2125:ILE:N	2.44	0.47
1:B:2188:PHE:C	1:B:2191:LYS:H	2.21	0.47
1:B:2288:ASN:CG	1:B:2413:TYR:O	2.57	0.47
1:A:67:SER:HA	1:A:70:LYS:HZ2	1.79	0.47
1:A:364:ILE:CG1	1:D:2736:LEU:O	2.44	0.47
1:A:1345:TYR:C	1:A:1349:ALA:N	2.72	0.47
1:A:2422:TYR:CD1	1:A:2422:TYR:C	2.92	0.47
1:A:2658:GLY:O	1:A:2662:TYR:N	2.42	0.47
1:A:2730:LYS:HZ3	1:A:2730:LYS:C	2.17	0.47
1:D:736:GLN:O	1:D:737:LEU:C	2.55	0.47
1:D:966:MET:O	1:D:970:THR:N	2.42	0.47
1:D:2013:SER:O	1:D:2015:THR:N	2.43	0.47
1:D:2400:LEU:HD23	1:D:2401:ILE:CA	2.44	0.47
1:C:530:CYS:CB	1:C:541:LEU:HG	2.44	0.47
1:C:1979:ASN:O	1:C:1981:ASN:C	2.57	0.47
1:C:2583:ASN:O	1:C:2587:GLY:N	2.47	0.47
1:B:69:GLN:HE22	1:B:99:GLU:CD	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2566:ARG:C	1:B:2566:ARG:CD	2.86	0.47
1:B:2694:GLU:C	1:B:2698:LEU:CD2	2.87	0.47
1:A:300:ASN:ND2	1:A:300:ASN:C	2.73	0.47
1:A:538:LEU:O	1:A:543:ASP:N	2.46	0.47
1:A:763:LEU:O	1:A:766:ARG:N	2.48	0.47
1:D:364:ILE:HA	1:D:393:LEU:HD21	1.29	0.47
1:D:2273:MET:HE3	1:D:2274:SER:CA	2.43	0.47
1:C:465:ILE:H	1:C:470:ARG:HH12	1.63	0.47
1:C:2219:LEU:HD21	1:C:2220:THR:CG2	2.39	0.47
1:C:2365:LYS:HZ3	1:C:2366:ILE:HA	1.80	0.47
1:B:69:GLN:CD	1:B:69:GLN:N	2.66	0.46
1:B:515:ILE:HG13	1:B:516:LEU:CD2	2.45	0.46
1:B:1345:TYR:O	1:B:1349:ALA:N	2.44	0.46
1:B:2346:PHE:HA	1:B:2350:LEU:HD11	1.96	0.46
1:A:1241:LEU:O	1:A:1245:CYS:N	2.37	0.46
1:A:2341:ILE:HA	1:A:2344:LEU:HD11	1.97	0.46
1:A:2624:LYS:HA	1:A:2624:LYS:HD2	1.55	0.46
1:D:37:CYS:HB3	1:D:149:VAL:HG11	1.97	0.46
1:D:2283:LEU:HD21	1:D:2361:ASN:HB2	1.98	0.46
1:D:2361:ASN:ND2	1:D:2361:ASN:C	2.72	0.46
1:D:2537:THR:O	1:D:2541:HIS:N	2.46	0.46
1:D:2548:GLY:HA3	1:D:2551:ASP:CG	2.39	0.46
1:D:2618:ARG:HH22	1:C:2236:GLN:CG	2.27	0.46
1:C:2728:LYS:NZ	1:C:2728:LYS:C	2.73	0.46
1:B:514:ASN:CA	1:B:517:LYS:HD3	2.46	0.46
1:A:68:ALA:HB3	1:A:69:GLN:HE22	1.79	0.46
1:A:68:ALA:HB3	1:A:69:GLN:NE2	2.31	0.46
1:A:2350:LEU:O	1:A:2354:LEU:HD21	2.16	0.46
1:A:2728:LYS:NZ	1:A:2728:LYS:C	2.72	0.46
1:D:117:TYR:CZ	1:D:176:VAL:HG12	2.49	0.46
1:D:605:LEU:O	1:D:609:HIS:N	2.43	0.46
1:D:2728:LYS:NZ	1:D:2728:LYS:C	2.73	0.46
1:C:124:LEU:HG	1:C:131:TYR:HB3	1.97	0.46
1:C:965:ILE:O	1:C:969:ASP:N	2.39	0.46
1:C:2276:TRP:CG	1:C:2368:PHE:CE1	2.95	0.46
1:C:2384:ARG:O	1:C:2388:LEU:HD23	2.03	0.46
1:B:68:ALA:HB3	1:B:69:GLN:NE2	2.31	0.46
1:B:2629:GLU:OE2	1:A:2236:GLN:NE2	2.47	0.46
1:A:37:CYS:HB3	1:A:149:VAL:HG11	1.98	0.46
1:A:394:CYS:SG	1:D:2737:GLY:CA	3.04	0.46
1:A:2250:LEU:HD22	1:A:2250:LEU:HA	1.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2365:LYS:CE	1:A:2399:LEU:HD22	2.46	0.46
1:A:2583:ASN:O	1:A:2587:GLY:N	2.47	0.46
1:D:469:GLU:HA	1:D:472:SER:HB3	1.98	0.46
1:D:584:GLN:O	1:D:585:ILE:HG12	2.12	0.46
1:D:2189:TYR:HD1	1:D:2190:ALA:H	1.62	0.46
1:D:2728:LYS:C	1:D:2728:LYS:HZ2	2.24	0.46
1:C:117:TYR:CZ	1:C:176:VAL:HG12	2.49	0.46
1:C:2189:TYR:HD1	1:C:2190:ALA:H	1.62	0.46
1:C:2288:ASN:CG	1:C:2413:TYR:O	2.58	0.46
1:B:1994:LYS:C	1:B:1996:ASN:N	2.71	0.46
1:B:2365:LYS:CE	1:B:2399:LEU:HD22	2.46	0.46
1:B:2397:LEU:HA	1:B:2397:LEU:HD13	1.39	0.46
1:B:2706:MET:SD	1:B:2706:MET:C	2.99	0.46
1:B:2730:LYS:HZ2	1:B:2730:LYS:HG3	1.55	0.46
1:B:2733:ILE:CG2	1:C:302:LEU:HD11	2.45	0.46
1:A:2618:ARG:HH22	1:D:2236:GLN:CG	2.28	0.46
1:A:2730:LYS:NZ	1:A:2730:LYS:C	2.73	0.46
1:D:74:LYS:HE2	1:D:74:LYS:HB2	1.36	0.46
1:D:2345:ILE:HD12	1:D:2345:ILE:C	2.41	0.46
1:D:2350:LEU:O	1:D:2354:LEU:HD21	2.16	0.46
1:D:2706:MET:HE2	1:C:2707:LYS:HE3	1.98	0.46
1:D:2708:LEU:HD13	1:D:2709:VAL:HG22	1.93	0.46
1:C:469:GLU:HA	1:C:472:SER:HB3	1.98	0.46
1:C:2341:ILE:HA	1:C:2344:LEU:HD11	1.97	0.46
1:B:37:CYS:HB3	1:B:149:VAL:HG11	1.98	0.46
1:B:2250:LEU:HD22	1:B:2250:LEU:HA	1.49	0.46
1:B:2290:LEU:C	1:B:2290:LEU:CD1	2.85	0.46
1:B:2361:ASN:ND2	1:B:2361:ASN:C	2.72	0.46
1:B:2699:GLN:HA	1:B:2699:GLN:HE21	1.80	0.46
1:B:2708:LEU:HD13	1:B:2709:VAL:HG22	1.93	0.46
1:A:2283:LEU:HD21	1:A:2361:ASN:HB2	1.98	0.46
1:A:2618:ARG:HG2	1:A:2628:PHE:CE1	2.33	0.46
1:D:518:GLN:CD	1:D:518:GLN:N	2.71	0.46
1:D:2202:ASP:HB2	1:D:2203:ARG:HH11	1.81	0.46
1:D:2279:ILE:HD13	1:D:2364:ASN:CG	2.36	0.46
1:D:2288:ASN:CG	1:D:2413:TYR:O	2.57	0.46
1:D:2365:LYS:HZ3	1:D:2366:ILE:HA	1.80	0.46
1:C:2202:ASP:HB2	1:C:2203:ARG:HH11	1.81	0.46
1:C:2350:LEU:O	1:C:2354:LEU:HD21	2.16	0.46
1:B:127:LYS:HE3	1:B:440:VAL:HG13	1.97	0.46
1:B:2212:VAL:HA	1:B:2213:PRO:HD3	1.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2243:PHE:CE2	1:B:2613:ILE:CG2	2.99	0.46
1:B:2583:ASN:O	1:B:2587:GLY:N	2.47	0.46
1:A:2345:ILE:HD12	1:A:2345:ILE:C	2.41	0.46
1:A:2401:ILE:HD11	1:A:2416:LEU:CB	2.30	0.46
1:A:2624:LYS:CE	1:A:2624:LYS:CA	2.85	0.46
1:D:364:ILE:HG22	1:D:393:LEU:CD2	2.40	0.46
1:D:514:ASN:CA	1:D:517:LYS:HD3	2.46	0.46
1:D:2658:GLY:O	1:D:2662:TYR:N	2.42	0.46
1:C:2013:SER:O	1:C:2015:THR:N	2.43	0.46
1:C:2406:LEU:CG	1:C:2407:PHE:CE2	2.97	0.46
1:B:364:ILE:HG22	1:B:393:LEU:CD2	2.40	0.46
1:B:469:GLU:HA	1:B:472:SER:HB3	1.98	0.46
1:B:963:GLU:O	1:B:967:VAL:N	2.46	0.46
1:B:2202:ASP:HB2	1:B:2203:ARG:HH11	1.81	0.46
1:B:2625:THR:C	1:B:2627:THR:N	2.70	0.46
1:A:736:GLN:O	1:A:737:LEU:C	2.55	0.46
1:A:2013:SER:O	1:A:2015:THR:N	2.43	0.46
1:A:2219:LEU:HD21	1:A:2220:THR:CG2	2.39	0.46
1:A:2410:GLU:C	1:A:2410:GLU:CD	2.84	0.46
1:D:2730:LYS:NZ	1:D:2730:LYS:C	2.73	0.46
1:C:510:MET:CG	1:C:516:LEU:HD11	2.29	0.46
1:C:2245:LEU:CD1	1:C:2383:TYR:CG	2.96	0.46
1:C:2283:LEU:HD21	1:C:2361:ASN:HB2	1.98	0.46
1:C:2346:PHE:HA	1:C:2350:LEU:HD11	1.97	0.46
1:B:124:LEU:HG	1:B:131:TYR:HB3	1.97	0.46
1:B:196:SER:OG	1:B:207:ASN:OD1	2.30	0.46
1:B:522:LEU:C	1:B:522:LEU:CD1	2.89	0.46
1:B:736:GLN:O	1:B:737:LEU:C	2.55	0.46
1:B:2236:GLN:CG	1:C:2618:ARG:HH22	2.28	0.46
1:B:2398:TYR:HD1	1:B:2416:LEU:CD2	2.20	0.46
1:A:469:GLU:HA	1:A:472:SER:HB3	1.98	0.46
1:A:514:ASN:CA	1:A:517:LYS:HD3	2.46	0.46
1:A:525:ALA:CB	1:A:526:PRO:HD2	2.45	0.46
1:A:2202:ASP:HB2	1:A:2203:ARG:HH11	1.81	0.46
1:A:2219:LEU:HD21	1:A:2223:SER:CB	2.40	0.46
1:A:2694:GLU:C	1:A:2698:LEU:CD2	2.87	0.46
1:D:68:ALA:HB3	1:D:69:GLN:HE22	1.80	0.46
1:D:510:MET:SD	1:D:515:ILE:CD1	2.95	0.46
1:D:2365:LYS:CE	1:D:2399:LEU:HD22	2.46	0.46
1:D:2706:MET:CG	1:C:2707:LYS:HE3	2.41	0.46
1:C:2176:PRO:O	1:C:2186:LEU:CG	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2544:ARG:HE	1:C:2544:ARG:HB2	1.62	0.46
1:B:2369:LEU:C	1:B:2369:LEU:CD2	2.84	0.46
1:B:2406:LEU:HD23	1:B:2407:PHE:CZ	2.39	0.46
1:B:2624:LYS:HA	1:B:2624:LYS:HD2	1.55	0.46
1:B:2730:LYS:NZ	1:B:2730:LYS:C	2.73	0.46
1:A:401:SER:H	1:A:428:GLU:HG2	1.81	0.46
1:A:584:GLN:O	1:A:585:ILE:HG12	2.12	0.46
1:A:2279:ILE:HD13	1:A:2364:ASN:CG	2.36	0.46
1:A:2357:LEU:HA	1:A:2357:LEU:HD13	1.40	0.46
1:A:2706:MET:HE2	1:D:2707:LYS:HE3	1.98	0.46
1:D:2121:LEU:O	1:D:2125:ILE:N	2.44	0.46
1:D:2585:ILE:HD12	1:D:2585:ILE:HA	1.74	0.46
1:C:67:SER:HA	1:C:70:LYS:HZ2	1.80	0.46
1:C:2732:ARG:CZ	1:C:2736:LEU:HD13	2.46	0.46
1:A:72:PHE:CD1	1:A:92:LEU:HD13	2.28	0.46
1:A:2227:ILE:HA	1:A:2227:ILE:HD13	1.64	0.46
1:D:124:LEU:HG	1:D:131:TYR:HB3	1.96	0.46
1:D:127:LYS:HE3	1:D:440:VAL:HG13	1.97	0.46
1:D:2287:MET:HE3	1:D:2287:MET:HB3	1.49	0.46
1:C:515:ILE:HG13	1:C:516:LEU:CD2	2.45	0.46
1:C:1027:ALA:O	1:C:1031:GLU:N	2.44	0.46
1:C:2345:ILE:HD12	1:C:2345:ILE:C	2.41	0.46
1:C:2539:LEU:HD11	1:C:2573:PHE:CZ	2.52	0.46
1:B:19:ALA:HA	1:B:218:TRP:CD1	2.52	0.45
1:B:465:ILE:H	1:B:470:ARG:HH12	1.63	0.45
1:B:2283:LEU:HD21	1:B:2361:ASN:HB2	1.98	0.45
1:B:2365:LYS:HZ3	1:B:2366:ILE:HA	1.80	0.45
1:A:2221:LYS:HE2	1:A:2222:GLU:HA	1.98	0.45
1:A:2240:ILE:H	1:A:2240:ILE:HG13	1.45	0.45
1:A:2399:LEU:C	1:A:2399:LEU:CD1	2.85	0.45
1:D:68:ALA:HB3	1:D:69:GLN:NE2	2.31	0.45
1:D:2212:VAL:HA	1:D:2213:PRO:HD3	1.30	0.45
1:D:2243:PHE:CE2	1:D:2613:ILE:CG2	2.99	0.45
1:C:37:CYS:HB3	1:C:149:VAL:HG11	1.98	0.45
1:C:68:ALA:HB3	1:C:69:GLN:NE2	2.31	0.45
1:C:2658:GLY:O	1:C:2662:TYR:N	2.42	0.45
1:C:2706:MET:SD	1:C:2706:MET:C	2.99	0.45
1:B:401:SER:H	1:B:428:GLU:HG2	1.81	0.45
1:A:124:LEU:HG	1:A:131:TYR:HB3	1.97	0.45
1:A:245:ALA:HA	1:A:248:GLU:HG2	1.98	0.45
1:A:2699:GLN:HE21	1:A:2699:GLN:HA	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2730:LYS:HA	1:A:2733:ILE:HG23	1.99	0.45
1:A:2732:ARG:CZ	1:A:2736:LEU:HD13	2.46	0.45
1:D:465:ILE:H	1:D:470:ARG:HH12	1.63	0.45
1:C:2365:LYS:CE	1:C:2399:LEU:HD22	2.46	0.45
1:B:525:ALA:HB3	1:B:526:PRO:CD	2.45	0.45
1:B:525:ALA:CB	1:B:526:PRO:HD2	2.45	0.45
1:B:2227:ILE:HA	1:B:2227:ILE:HD13	1.64	0.45
1:B:2345:ILE:HD12	1:B:2345:ILE:C	2.40	0.45
1:B:2352:PRO:HA	1:B:2355:PHE:CD2	2.52	0.45
1:B:2422:TYR:CD1	1:B:2422:TYR:O	2.70	0.45
1:B:2658:GLY:O	1:B:2662:TYR:N	2.42	0.45
1:A:19:ALA:HA	1:A:218:TRP:CD1	2.52	0.45
1:A:2358:GLY:CA	1:A:2413:TYR:OH	2.57	0.45
1:A:2400:LEU:O	1:A:2401:ILE:C	2.54	0.45
1:A:2706:MET:SD	1:A:2706:MET:C	2.99	0.45
1:A:2722:GLN:CD	1:A:2722:GLN:N	2.73	0.45
1:D:392:HIS:HE1	1:D:397:THR:N	1.83	0.45
1:D:2288:ASN:ND2	1:D:2413:TYR:O	2.50	0.45
1:D:2341:ILE:HA	1:D:2344:LEU:HD11	1.97	0.45
1:D:2422:TYR:O	1:D:2422:TYR:CD1	2.70	0.45
1:D:2704:SER:HA	1:D:2707:LYS:NZ	2.31	0.45
1:D:2706:MET:SD	1:D:2706:MET:C	2.99	0.45
1:D:2732:ARG:CZ	1:D:2736:LEU:HD13	2.46	0.45
1:C:19:ALA:HA	1:C:218:TRP:CD1	2.52	0.45
1:C:514:ASN:CA	1:C:517:LYS:HD3	2.46	0.45
1:C:736:GLN:O	1:C:737:LEU:C	2.55	0.45
1:C:2288:ASN:ND2	1:C:2413:TYR:O	2.50	0.45
1:B:714:GLU:O	1:B:718:ASP:N	2.44	0.45
1:B:2219:LEU:HD21	1:B:2223:SER:CB	2.40	0.45
1:B:2221:LYS:HE2	1:B:2222:GLU:HA	1.98	0.45
1:B:2722:GLN:CD	1:B:2722:GLN:N	2.73	0.45
1:B:2732:ARG:CZ	1:B:2736:LEU:HD13	2.46	0.45
1:A:465:ILE:H	1:A:470:ARG:HH12	1.63	0.45
1:A:739:LEU:O	1:A:743:MET:N	2.49	0.45
1:A:2222:GLU:CD	1:A:2222:GLU:C	2.85	0.45
1:A:2243:PHE:CE2	1:A:2613:ILE:CG2	2.99	0.45
1:A:2393:LEU:HD23	1:A:2393:LEU:HA	1.77	0.45
1:A:2622:ASP:HB3	1:A:2628:PHE:HD1	1.70	0.45
1:D:525:ALA:HB3	1:D:526:PRO:CD	2.45	0.45
1:D:2081:ARG:O	1:D:2085:VAL:N	2.36	0.45
1:D:2410:GLU:C	1:D:2410:GLU:CD	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2699:GLN:OE1	1:C:2700:GLU:CB	2.63	0.45
1:C:196:SER:OG	1:C:207:ASN:OD1	2.30	0.45
1:C:2221:LYS:HE2	1:C:2222:GLU:HA	1.98	0.45
1:B:59:LYS:N	1:B:124:LEU:O	2.43	0.45
1:B:245:ALA:HA	1:B:248:GLU:HG2	1.98	0.45
1:B:393:LEU:HG	1:B:394:CYS:N	2.32	0.45
1:B:2358:GLY:CA	1:B:2413:TYR:OH	2.57	0.45
1:B:2401:ILE:HD11	1:B:2416:LEU:CB	2.30	0.45
1:A:2200:ARG:NE	1:A:2206:GLU:OE2	2.37	0.45
1:A:2288:ASN:ND2	1:A:2413:TYR:O	2.50	0.45
1:A:2539:LEU:HD11	1:A:2573:PHE:CZ	2.52	0.45
1:D:2191:LYS:HB2	1:D:2191:LYS:HE3	1.32	0.45
1:C:245:ALA:HA	1:C:248:GLU:HG2	1.98	0.45
1:B:461:GLU:CD	1:B:528:THR:OG1	2.58	0.45
1:B:739:LEU:O	1:B:743:MET:N	2.48	0.45
1:B:2288:ASN:ND2	1:B:2413:TYR:O	2.50	0.45
1:B:2350:LEU:O	1:B:2354:LEU:HD21	2.16	0.45
1:B:2405:GLY:N	1:B:2412:PHE:HB2	2.32	0.45
1:B:2581:VAL:C	1:B:2583:ASN:N	2.70	0.45
1:A:127:LYS:HE3	1:A:440:VAL:HG13	1.97	0.45
1:A:461:GLU:HB2	1:A:526:PRO:HD3	1.99	0.45
1:A:2613:ILE:H	1:A:2613:ILE:HG13	1.52	0.45
1:D:19:ALA:HA	1:D:218:TRP:CD1	2.52	0.45
1:D:66:TYR:CA	1:D:156:ASN:CG	2.83	0.45
1:D:393:LEU:HG	1:D:394:CYS:N	2.32	0.45
1:D:401:SER:H	1:D:428:GLU:HG2	1.81	0.45
1:D:2544:ARG:HE	1:D:2544:ARG:HB2	1.62	0.45
1:C:714:GLU:O	1:C:718:ASP:N	2.44	0.45
1:C:1994:LYS:C	1:C:1996:ASN:N	2.71	0.45
1:C:2284:ALA:CB	1:C:2416:LEU:CD1	2.92	0.45
1:C:2704:SER:HA	1:C:2707:LYS:NZ	2.32	0.45
1:C:2730:LYS:HA	1:C:2733:ILE:HG23	1.99	0.45
1:B:461:GLU:HB2	1:B:526:PRO:HD3	1.99	0.45
1:B:2222:GLU:C	1:B:2222:GLU:CD	2.85	0.45
1:B:2704:SER:HA	1:B:2707:LYS:NZ	2.32	0.45
1:B:2707:LYS:HE3	1:C:2706:MET:HE2	1.98	0.45
1:A:299:TRP:HE3	1:A:381:LEU:HD23	1.77	0.45
1:A:364:ILE:HA	1:A:393:LEU:HD21	1.29	0.45
1:A:393:LEU:HG	1:A:394:CYS:N	2.32	0.45
1:A:2292:ALA:HB2	1:D:2453:TYR:HH	1.79	0.45
1:A:2405:GLY:N	1:A:2412:PHE:HB2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2611:CYS:SG	1:A:2612:PHE:N	2.90	0.45
1:D:1241:LEU:O	1:D:1245:CYS:N	2.37	0.45
1:D:2233:ARG:NH2	1:D:2606:ILE:HD12	2.32	0.45
1:D:2352:PRO:HA	1:D:2355:PHE:CD2	2.52	0.45
1:C:2352:PRO:HA	1:C:2355:PHE:CD2	2.52	0.45
1:C:2611:CYS:SG	1:C:2612:PHE:N	2.90	0.45
1:B:2176:PRO:O	1:B:2186:LEU:CG	2.64	0.45
1:B:2351:GLN:H	1:B:2352:PRO:HD3	1.79	0.45
1:B:2450:ILE:CG2	1:C:2417:LEU:HD11	2.42	0.45
1:B:2694:GLU:C	1:B:2694:GLU:CD	2.85	0.45
1:B:2699:GLN:CB	1:A:2700:GLU:CG	2.95	0.45
1:B:2737:GLY:HA2	1:C:394:CYS:SG	2.57	0.45
1:D:363:ASP:OD2	1:D:365:SER:OG	2.35	0.45
1:D:394:CYS:SG	1:C:2737:GLY:CA	3.04	0.45
1:D:2276:TRP:HA	1:D:2368:PHE:CB	2.45	0.45
1:C:393:LEU:HG	1:C:394:CYS:N	2.32	0.45
1:C:401:SER:H	1:C:428:GLU:HG2	1.81	0.45
1:B:2691:GLU:C	1:B:2691:GLU:CD	2.85	0.45
1:A:2176:PRO:O	1:A:2186:LEU:CG	2.64	0.45
1:A:2352:PRO:HA	1:A:2355:PHE:CD2	2.52	0.45
1:A:2422:TYR:CD1	1:A:2422:TYR:O	2.70	0.45
1:A:2694:GLU:C	1:A:2694:GLU:CD	2.85	0.45
1:A:2728:LYS:C	1:A:2728:LYS:HZ2	2.25	0.45
1:C:2345:ILE:HD12	1:C:2350:LEU:HD11	1.98	0.45
1:B:2539:LEU:HD11	1:B:2573:PHE:CZ	2.52	0.45
1:A:364:ILE:HG22	1:A:393:LEU:CD2	2.40	0.45
1:A:461:GLU:CG	1:A:525:ALA:C	2.71	0.45
1:A:510:MET:SD	1:A:515:ILE:CD1	2.95	0.45
1:A:2233:ARG:NH2	1:A:2606:ILE:HD12	2.32	0.45
1:A:2244:PHE:HD1	1:A:2244:PHE:HA	1.51	0.45
1:A:2417:LEU:HD11	1:D:2450:ILE:CG2	2.40	0.45
1:A:2691:GLU:CD	1:A:2691:GLU:C	2.85	0.45
1:A:2706:MET:HG2	1:D:2707:LYS:HG3	1.76	0.45
1:D:2221:LYS:HE2	1:D:2222:GLU:HA	1.98	0.45
1:D:2350:LEU:CA	1:D:2353:THR:OG1	2.65	0.45
1:D:2611:CYS:SG	1:D:2612:PHE:N	2.90	0.45
1:C:461:GLU:HB2	1:C:526:PRO:HD3	1.99	0.45
1:C:538:LEU:O	1:C:543:ASP:N	2.46	0.45
1:C:1802:GLU:C	1:C:1804:ALA:N	2.73	0.45
1:B:518:GLN:N	1:B:518:GLN:CD	2.71	0.44
1:A:966:MET:O	1:A:970:THR:N	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2177:GLY:CA	1:A:2186:LEU:HD21	2.46	0.44
1:A:2231:THR:CG2	1:A:2232:GLU:C	2.87	0.44
1:A:2284:ALA:O	1:A:2285:VAL:C	2.59	0.44
1:A:2585:ILE:HD12	1:A:2585:ILE:HA	1.73	0.44
1:D:837:MET:O	1:D:841:GLU:N	2.46	0.44
1:D:2219:LEU:HD21	1:D:2220:THR:CG2	2.39	0.44
1:D:2358:GLY:HA2	1:D:2413:TYR:HH	1.79	0.44
1:C:2243:PHE:CE2	1:C:2613:ILE:CG2	2.99	0.44
1:C:2422:TYR:O	1:C:2422:TYR:CD1	2.70	0.44
1:C:2730:LYS:NZ	1:C:2730:LYS:C	2.73	0.44
1:B:30:LEU:HD22	1:B:38:VAL:HB	2.00	0.44
1:B:2572:LEU:CD1	1:B:2572:LEU:C	2.86	0.44
1:B:2611:CYS:SG	1:B:2612:PHE:N	2.90	0.44
1:A:2083:ASP:O	1:A:2087:GLU:N	2.45	0.44
1:A:2245:LEU:CD1	1:A:2383:TYR:CG	2.96	0.44
1:D:245:ALA:HA	1:D:248:GLU:HG2	1.98	0.44
1:D:299:TRP:CE3	1:D:381:LEU:CD2	2.94	0.44
1:D:2539:LEU:HD11	1:D:2573:PHE:CZ	2.51	0.44
1:D:2699:GLN:OE1	1:C:2700:GLU:O	2.36	0.44
1:C:739:LEU:O	1:C:743:MET:N	2.48	0.44
1:C:2252:ASN:HA	1:C:2252:ASN:HD22	1.45	0.44
1:B:364:ILE:HA	1:B:393:LEU:HD21	1.29	0.44
1:B:2700:GLU:CD	1:C:2699:GLN:CB	2.80	0.44
1:B:2730:LYS:HA	1:B:2733:ILE:HG23	1.98	0.44
1:A:66:TYR:CA	1:A:156:ASN:CG	2.83	0.44
1:A:2064:ASP:O	1:A:2068:ALA:N	2.51	0.44
1:A:2397:LEU:HA	1:A:2397:LEU:HD13	1.39	0.44
1:D:1027:ALA:O	1:D:1031:GLU:N	2.44	0.44
1:D:2222:GLU:CD	1:D:2222:GLU:C	2.85	0.44
1:D:2451:LEU:CA	1:D:2454:LEU:CD2	2.86	0.44
1:D:2564:ALA:HA	1:D:2567:VAL:HG22	1.96	0.44
1:D:2694:GLU:CD	1:D:2694:GLU:C	2.85	0.44
1:D:2730:LYS:HA	1:D:2733:ILE:HG23	1.98	0.44
1:C:525:ALA:CB	1:C:526:PRO:CD	2.96	0.44
1:C:2397:LEU:HD13	1:C:2397:LEU:HA	1.39	0.44
1:C:2728:LYS:C	1:C:2728:LYS:HZ2	2.25	0.44
1:C:2728:LYS:C	1:C:2728:LYS:CD	2.91	0.44
1:B:72:PHE:HE1	1:B:93:HIS:CA	2.31	0.44
1:B:2177:GLY:CA	1:B:2186:LEU:HD21	2.46	0.44
1:B:2725:GLU:C	1:B:2725:GLU:CD	2.85	0.44
1:B:2728:LYS:NZ	1:B:2728:LYS:C	2.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:77:LYS:HA	1:D:78:PRO:HD3	1.29	0.44
1:D:2064:ASP:O	1:D:2068:ALA:N	2.51	0.44
1:D:2691:GLU:CD	1:D:2691:GLU:C	2.85	0.44
1:C:300:ASN:ND2	1:C:300:ASN:C	2.73	0.44
1:C:1342:LEU:O	1:C:1343:VAL:C	2.60	0.44
1:C:2398:TYR:HD1	1:C:2416:LEU:CD2	2.20	0.44
1:C:2722:GLN:CD	1:C:2722:GLN:N	2.73	0.44
1:B:1806:ASN:O	1:B:1810:ASP:N	2.47	0.44
1:B:2256:TRP:CE2	1:B:2377:GLY:HA3	2.53	0.44
1:B:2733:ILE:HG22	1:C:302:LEU:HD11	1.99	0.44
1:A:74:LYS:HE2	1:A:74:LYS:HB2	1.36	0.44
1:A:518:GLN:CD	1:A:518:GLN:N	2.71	0.44
1:A:1386:THR:O	1:A:1387:GLU:O	2.36	0.44
1:A:2218:PHE:CD1	1:A:2218:PHE:C	2.96	0.44
1:A:2218:PHE:HB2	1:A:2258:LYS:HZ3	1.81	0.44
1:A:2704:SER:HA	1:A:2707:LYS:NZ	2.31	0.44
1:D:1033:ILE:O	1:D:1037:ALA:N	2.48	0.44
1:D:2176:PRO:O	1:D:2186:LEU:CG	2.64	0.44
1:C:72:PHE:HE1	1:C:93:HIS:CA	2.31	0.44
1:C:77:LYS:HA	1:C:78:PRO:HD3	1.29	0.44
1:C:2222:GLU:C	1:C:2222:GLU:CD	2.85	0.44
1:C:2233:ARG:NH2	1:C:2606:ILE:HD12	2.32	0.44
1:C:2290:LEU:C	1:C:2290:LEU:CD1	2.86	0.44
1:B:392:HIS:ND1	1:B:392:HIS:N	2.64	0.44
1:B:437:PRO:HA	1:B:440:VAL:HG12	2.00	0.44
1:B:2064:ASP:O	1:B:2068:ALA:N	2.51	0.44
1:B:2233:ARG:NH2	1:B:2606:ILE:HD12	2.32	0.44
1:B:2279:ILE:HD13	1:B:2364:ASN:CG	2.36	0.44
1:B:2618:ARG:HG2	1:B:2628:PHE:CE1	2.33	0.44
1:B:2699:GLN:OE1	1:A:2700:GLU:C	2.60	0.44
1:A:30:LEU:HD22	1:A:38:VAL:HB	2.00	0.44
1:A:170:ARG:NH1	1:A:180:ASP:OD1	2.51	0.44
1:A:437:PRO:HA	1:A:440:VAL:HG12	2.00	0.44
1:A:2689:GLU:HG3	1:A:2692:GLN:NE2	2.33	0.44
1:A:2703:GLU:HB2	1:A:2706:MET:HE3	2.00	0.44
1:D:66:TYR:CG	1:D:156:ASN:O	2.67	0.44
1:D:515:ILE:HG13	1:D:516:LEU:CD2	2.45	0.44
1:D:524:GLN:OE1	1:D:580:PHE:HZ	2.01	0.44
1:D:2622:ASP:CG	1:D:2628:PHE:HD1	2.26	0.44
1:D:2696:ARG:HB3	1:D:2696:ARG:CZ	2.48	0.44
1:C:170:ARG:NH1	1:C:180:ASP:OD1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:518:GLN:CD	1:C:518:GLN:N	2.71	0.44
1:C:1662:GLN:O	1:C:1666:GLU:CA	2.66	0.44
1:C:2218:PHE:CD1	1:C:2218:PHE:C	2.96	0.44
1:B:1342:LEU:O	1:B:1343:VAL:C	2.60	0.44
1:B:2689:GLU:HG3	1:B:2692:GLN:NE2	2.33	0.44
1:B:2703:GLU:HB2	1:B:2706:MET:HE3	2.00	0.44
1:A:524:GLN:OE1	1:A:580:PHE:HZ	2.01	0.44
1:A:1342:LEU:O	1:A:1343:VAL:C	2.60	0.44
1:A:1802:GLU:C	1:A:1804:ALA:N	2.73	0.44
1:A:2212:VAL:HA	1:A:2213:PRO:HD3	1.30	0.44
1:A:2725:GLU:CD	1:A:2725:GLU:C	2.85	0.44
1:D:72:PHE:HE1	1:D:93:HIS:CA	2.31	0.44
1:D:2288:ASN:ND2	1:D:2414:SER:N	2.47	0.44
1:D:2405:GLY:N	1:D:2412:PHE:HB2	2.32	0.44
1:D:2624:LYS:HA	1:D:2624:LYS:HD2	1.55	0.44
1:D:2725:GLU:CD	1:D:2725:GLU:C	2.85	0.44
1:C:30:LEU:HD22	1:C:38:VAL:HB	1.99	0.44
1:C:66:TYR:CG	1:C:156:ASN:O	2.67	0.44
1:C:74:LYS:HE2	1:C:74:LYS:HB2	1.36	0.44
1:C:1386:THR:O	1:C:1387:GLU:O	2.36	0.44
1:C:2351:GLN:H	1:C:2352:PRO:HD3	1.80	0.44
1:C:2405:GLY:N	1:C:2412:PHE:HB2	2.32	0.44
1:C:2703:GLU:HB2	1:C:2706:MET:HE3	2.00	0.44
1:B:520:PHE:CZ	1:B:576:LYS:HD3	2.53	0.44
1:B:2218:PHE:CD1	1:B:2218:PHE:C	2.96	0.44
1:B:2696:ARG:HB3	1:B:2696:ARG:CZ	2.48	0.44
1:A:2698:LEU:CD2	1:A:2698:LEU:N	2.73	0.44
1:D:461:GLU:HB2	1:D:526:PRO:HD3	1.99	0.44
1:D:525:ALA:CB	1:D:526:PRO:CD	2.96	0.44
1:D:1802:GLU:C	1:D:1804:ALA:N	2.73	0.44
1:D:2284:ALA:O	1:D:2285:VAL:C	2.59	0.44
1:D:2393:LEU:HD23	1:D:2393:LEU:HA	1.77	0.44
1:C:963:GLU:O	1:C:967:VAL:N	2.47	0.44
1:C:1858:LYS:O	1:C:1862:ASP:N	2.44	0.44
1:C:2121:LEU:O	1:C:2125:ILE:N	2.44	0.44
1:C:2537:THR:O	1:C:2541:HIS:N	2.46	0.44
1:C:2622:ASP:CG	1:C:2628:PHE:HD1	2.26	0.44
1:C:2691:GLU:C	1:C:2691:GLU:CD	2.85	0.44
1:B:66:TYR:CG	1:B:156:ASN:O	2.67	0.44
1:B:72:PHE:HB2	1:B:92:LEU:HD11	1.99	0.44
1:B:228:ASP:OD1	1:B:228:ASP:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:518:GLN:NE2	1:B:518:GLN:CA	2.72	0.44
1:B:2415:LEU:C	1:B:2415:LEU:CD2	2.91	0.44
1:A:2276:TRP:CZ3	1:A:2395:HIS:CE1	3.06	0.44
1:A:2365:LYS:HZ3	1:A:2366:ILE:HA	1.83	0.44
1:A:2369:LEU:C	1:A:2369:LEU:CD2	2.84	0.44
1:A:2735:LEU:CD2	1:A:2736:LEU:HD12	2.48	0.44
1:D:1979:ASN:C	1:D:1981:ASN:N	2.62	0.44
1:D:2602:LYS:HB3	1:D:2602:LYS:HE3	1.73	0.44
1:D:2735:LEU:CD2	1:D:2736:LEU:HD12	2.48	0.44
1:C:2064:ASP:O	1:C:2068:ALA:N	2.51	0.44
1:C:2585:ILE:HD12	1:C:2585:ILE:HA	1.73	0.44
1:C:2694:GLU:C	1:C:2694:GLU:CD	2.85	0.44
1:B:170:ARG:NH1	1:B:180:ASP:OD1	2.51	0.43
1:B:255:GLU:HG3	1:B:257:ARG:H	1.83	0.43
1:B:394:CYS:SG	1:A:2737:GLY:HA2	2.58	0.43
1:B:525:ALA:CB	1:B:526:PRO:CD	2.96	0.43
1:B:1034:GLU:O	1:B:1038:GLU:N	2.48	0.43
1:B:2276:TRP:C	1:B:2276:TRP:HD1	2.26	0.43
1:A:72:PHE:HE1	1:A:93:HIS:CA	2.31	0.43
1:A:2566:ARG:C	1:A:2566:ARG:CD	2.85	0.43
1:D:170:ARG:NH1	1:D:180:ASP:OD1	2.51	0.43
1:D:2252:ASN:HA	1:D:2252:ASN:HD22	1.45	0.43
1:D:2276:TRP:CZ3	1:D:2395:HIS:CE1	3.06	0.43
1:D:2415:LEU:C	1:D:2415:LEU:CD2	2.91	0.43
1:C:299:TRP:HE3	1:C:381:LEU:HD23	1.77	0.43
1:C:392:HIS:ND1	1:C:392:HIS:N	2.64	0.43
1:C:525:ALA:CB	1:C:526:PRO:HD2	2.45	0.43
1:C:2624:LYS:HA	1:C:2624:LYS:HD2	1.54	0.43
1:B:2215:ILE:HG22	1:B:2254:MET:CG	2.48	0.43
1:B:2585:ILE:HD12	1:B:2585:ILE:HA	1.73	0.43
1:B:2707:LYS:CD	1:C:2706:MET:HB3	2.30	0.43
1:A:66:TYR:CG	1:A:156:ASN:O	2.67	0.43
1:A:1662:GLN:O	1:A:1666:GLU:CA	2.66	0.43
1:A:2696:ARG:HB3	1:A:2696:ARG:CZ	2.48	0.43
1:C:66:TYR:HB3	1:C:156:ASN:CB	2.47	0.43
1:C:520:PHE:CZ	1:C:576:LYS:HD3	2.53	0.43
1:C:2122:VAL:O	1:C:2126:LYS:N	2.51	0.43
1:C:2256:TRP:CE2	1:C:2377:GLY:HA3	2.53	0.43
1:C:2276:TRP:HA	1:C:2368:PHE:CB	2.45	0.43
1:B:1662:GLN:O	1:B:1666:GLU:CA	2.66	0.43
1:B:2122:VAL:O	1:B:2126:LYS:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2443:LEU:H	1:A:2443:LEU:HG	1.65	0.43
1:D:300:ASN:ND2	1:D:300:ASN:C	2.73	0.43
1:D:2218:PHE:CD1	1:D:2218:PHE:C	2.96	0.43
1:B:2176:PRO:O	1:B:2186:LEU:HD21	2.16	0.43
1:B:2345:ILE:HD12	1:B:2350:LEU:HD11	1.98	0.43
1:A:393:LEU:HD12	1:D:2733:ILE:HD12	1.99	0.43
1:A:2295:TYR:HB3	1:D:2532:LEU:HD11	2.01	0.43
1:D:140:ALA:HB2	1:D:147:MET:H	1.83	0.43
1:D:437:PRO:HA	1:D:440:VAL:HG12	2.00	0.43
1:D:461:GLU:CD	1:D:528:THR:OG1	2.58	0.43
1:D:2250:LEU:HA	1:D:2250:LEU:HD22	1.49	0.43
1:D:2689:GLU:HG3	1:D:2692:GLN:NE2	2.33	0.43
1:D:2703:GLU:HA	1:D:2706:MET:HG3	2.00	0.43
1:D:2735:LEU:HD23	1:D:2735:LEU:O	2.18	0.43
1:C:72:PHE:HB2	1:C:92:LEU:HD11	1.99	0.43
1:C:558:ARG:HG2	1:C:561:ARG:HH12	1.84	0.43
1:C:1033:ILE:O	1:C:1037:ALA:N	2.48	0.43
1:C:2252:ASN:HD22	1:C:2255:ASN:HD21	1.66	0.43
1:C:2725:GLU:C	1:C:2725:GLU:CD	2.85	0.43
1:C:2735:LEU:CD2	1:C:2736:LEU:HD12	2.48	0.43
1:B:2189:TYR:HD1	1:B:2190:ALA:H	1.62	0.43
1:B:2354:LEU:N	1:B:2354:LEU:CD2	2.72	0.43
1:A:72:PHE:HB2	1:A:92:LEU:HD11	1.99	0.43
1:A:525:ALA:CB	1:A:526:PRO:CD	2.96	0.43
1:A:1295:PHE:O	1:A:1299:ILE:N	2.52	0.43
1:A:2276:TRP:HA	1:A:2368:PHE:CB	2.45	0.43
1:D:2422:TYR:CD1	1:D:2422:TYR:C	2.92	0.43
1:C:1029:ASP:O	1:C:1033:ILE:N	2.49	0.43
1:C:2284:ALA:O	1:C:2285:VAL:C	2.59	0.43
1:B:524:GLN:OE1	1:B:580:PHE:HZ	2.01	0.43
1:B:558:ARG:HG2	1:B:561:ARG:HH12	1.84	0.43
1:B:2276:TRP:CZ3	1:B:2395:HIS:CE1	3.06	0.43
1:B:2717:SER:O	1:B:2718:GLU:C	2.62	0.43
1:A:140:ALA:HB2	1:A:147:MET:H	1.83	0.43
1:A:302:LEU:HD13	1:D:2733:ILE:HB	2.00	0.43
1:A:2189:TYR:HD1	1:A:2190:ALA:H	1.62	0.43
1:D:72:PHE:HB2	1:D:92:LEU:HD11	1.99	0.43
1:D:739:LEU:O	1:D:743:MET:N	2.48	0.43
1:D:1342:LEU:O	1:D:1343:VAL:C	2.60	0.43
1:D:2215:ILE:HG22	1:D:2254:MET:CG	2.48	0.43
1:D:2651:LYS:NZ	1:D:2654:THR:O	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2703:GLU:HB2	1:D:2706:MET:HE3	2.00	0.43
1:C:228:ASP:N	1:C:228:ASP:OD1	2.51	0.43
1:C:255:GLU:HG3	1:C:257:ARG:H	1.83	0.43
1:C:2215:ILE:HG22	1:C:2254:MET:CG	2.48	0.43
1:C:2399:LEU:C	1:C:2399:LEU:CD1	2.85	0.43
1:B:2218:PHE:HB2	1:B:2258:LYS:HZ3	1.83	0.43
1:B:2350:LEU:CA	1:B:2353:THR:OG1	2.65	0.43
1:A:177:VAL:N	1:A:180:ASP:OD2	2.39	0.43
1:A:2240:ILE:HD11	1:A:2672:LEU:HD11	1.88	0.43
1:A:2735:LEU:HD23	1:A:2735:LEU:O	2.18	0.43
1:C:2422:TYR:CD1	1:C:2422:TYR:C	2.92	0.43
1:C:2689:GLU:HG3	1:C:2692:GLN:NE2	2.33	0.43
1:C:2735:LEU:HD23	1:C:2735:LEU:O	2.18	0.43
1:B:239:VAL:HG23	1:B:435:VAL:HB	2.01	0.43
1:B:2735:LEU:CD2	1:B:2736:LEU:HD12	2.48	0.43
1:A:963:GLU:O	1:A:967:VAL:N	2.47	0.43
1:A:2176:PRO:O	1:A:2186:LEU:HD21	2.16	0.43
1:D:30:LEU:HD22	1:D:38:VAL:HB	2.00	0.43
1:D:255:GLU:HG3	1:D:257:ARG:H	1.83	0.43
1:D:262:VAL:HG11	1:D:418:ILE:HD12	2.01	0.43
1:D:1295:PHE:O	1:D:1299:ILE:N	2.52	0.43
1:D:1662:GLN:O	1:D:1666:GLU:CA	2.66	0.43
1:D:2083:ASP:O	1:D:2087:GLU:N	2.45	0.43
1:D:2256:TRP:CE2	1:D:2377:GLY:HA3	2.53	0.43
1:D:2406:LEU:HD23	1:D:2407:PHE:CZ	2.39	0.43
1:D:2581:VAL:CG2	1:D:2582:LEU:HD22	2.49	0.43
1:C:437:PRO:HA	1:C:440:VAL:HG12	2.00	0.43
1:C:2276:TRP:CZ3	1:C:2395:HIS:CE1	3.06	0.43
1:C:2696:ARG:HB3	1:C:2696:ARG:CZ	2.48	0.43
1:B:141:LEU:HD12	1:B:142:LEU:HG	2.01	0.43
1:B:1979:ASN:O	1:B:1981:ASN:CA	2.67	0.43
1:A:2122:VAL:O	1:A:2126:LYS:N	2.51	0.43
1:A:2256:TRP:CE2	1:A:2377:GLY:HA3	2.53	0.43
1:D:558:ARG:HG2	1:D:561:ARG:HH12	1.84	0.43
1:D:832:ARG:O	1:D:836:THR:N	2.52	0.43
1:D:1386:THR:O	1:D:1387:GLU:O	2.36	0.43
1:D:2397:LEU:HA	1:D:2397:LEU:HD13	1.39	0.43
1:D:2434:VAL:HG12	1:D:2589:ILE:HD12	2.01	0.43
1:D:2609:THR:C	1:D:2618:ARG:HH11	2.17	0.43
1:C:364:ILE:HA	1:C:393:LEU:HD21	1.29	0.43
1:C:2717:SER:O	1:C:2718:GLU:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:77:LYS:HA	1:B:78:PRO:HD3	1.29	0.43
1:B:2399:LEU:C	1:B:2399:LEU:CD1	2.85	0.43
1:B:2699:GLN:OE1	1:A:2700:GLU:O	2.37	0.43
1:B:2735:LEU:O	1:B:2738:HIS:HB3	2.19	0.43
1:A:558:ARG:HG2	1:A:561:ARG:HH12	1.84	0.43
1:A:2350:LEU:CA	1:A:2353:THR:OG1	2.65	0.43
1:C:140:ALA:HB2	1:C:147:MET:H	1.83	0.43
1:C:1674:LYS:O	1:C:1678:THR:N	2.52	0.43
1:C:2415:LEU:C	1:C:2415:LEU:CD2	2.91	0.43
1:B:2399:LEU:HD12	1:B:2399:LEU:O	2.19	0.42
1:B:2622:ASP:CG	1:B:2628:PHE:HD1	2.26	0.42
1:B:2735:LEU:HD23	1:B:2735:LEU:O	2.18	0.42
1:A:2215:ILE:HG22	1:A:2254:MET:CG	2.48	0.42
1:A:2434:VAL:HG12	1:A:2589:ILE:HD12	2.01	0.42
1:A:2581:VAL:C	1:A:2583:ASN:N	2.70	0.42
1:D:530:CYS:SG	1:D:541:LEU:CG	2.97	0.42
1:C:262:VAL:HG11	1:C:418:ILE:HD12	2.01	0.42
1:C:524:GLN:OE1	1:C:580:PHE:HZ	2.01	0.42
1:C:2227:ILE:HD13	1:C:2227:ILE:HA	1.64	0.42
1:B:832:ARG:O	1:B:836:THR:N	2.52	0.42
1:B:1386:THR:O	1:B:1387:GLU:O	2.36	0.42
1:B:2202:ASP:HB2	1:B:2203:ARG:NH1	2.34	0.42
1:B:2246:ARG:HD3	1:B:2246:ARG:HA	1.89	0.42
1:A:255:GLU:HG3	1:A:257:ARG:H	1.83	0.42
1:A:391:ARG:CG	1:A:396:ASN:CA	2.97	0.42
1:A:461:GLU:HG3	1:A:525:ALA:HA	1.97	0.42
1:A:1033:ILE:O	1:A:1037:ALA:N	2.48	0.42
1:A:2266:LEU:N	1:A:2266:LEU:CD1	2.72	0.42
1:A:2415:LEU:C	1:A:2415:LEU:CD2	2.91	0.42
1:A:2716:LEU:C	1:A:2716:LEU:CD1	2.85	0.42
1:D:2177:GLY:CA	1:D:2186:LEU:HD21	2.45	0.42
1:D:2273:MET:SD	1:D:2273:MET:O	2.77	0.42
1:C:1198:ARG:O	1:C:1201:GLN:N	2.52	0.42
1:C:1295:PHE:O	1:C:1299:ILE:N	2.52	0.42
1:C:1345:TYR:O	1:C:1346:ASN:O	2.37	0.42
1:C:2176:PRO:O	1:C:2186:LEU:HD21	2.16	0.42
1:C:2202:ASP:HB2	1:C:2203:ARG:NH1	2.34	0.42
1:B:6:SER:OG	1:B:7:SER:N	2.52	0.42
1:B:538:LEU:O	1:B:543:ASP:N	2.46	0.42
1:B:1198:ARG:O	1:B:1201:GLN:N	2.53	0.42
1:B:2213:PRO:HB2	1:B:2216:CYS:SG	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2219:LEU:CD2	1:B:2219:LEU:C	2.85	0.42
1:B:2393:LEU:HD23	1:B:2393:LEU:HA	1.77	0.42
1:B:2581:VAL:CG2	1:B:2582:LEU:HD22	2.49	0.42
1:B:2602:LYS:HB3	1:B:2602:LYS:HE3	1.73	0.42
1:A:193:LEU:HD12	1:A:209:VAL:HG11	2.01	0.42
1:A:1198:ARG:O	1:A:1201:GLN:N	2.52	0.42
1:A:1345:TYR:O	1:A:1346:ASN:O	2.37	0.42
1:A:2202:ASP:HB2	1:A:2203:ARG:NH1	2.35	0.42
1:A:2252:ASN:HD22	1:A:2255:ASN:HD21	1.66	0.42
1:A:2273:MET:SD	1:A:2273:MET:O	2.77	0.42
1:A:2336:LEU:N	1:A:2336:LEU:CD2	2.73	0.42
1:A:2351:GLN:H	1:A:2352:PRO:HD3	1.79	0.42
1:A:2622:ASP:CG	1:A:2628:PHE:HD1	2.26	0.42
1:A:2717:SER:O	1:A:2718:GLU:C	2.62	0.42
1:D:461:GLU:HB3	1:D:525:ALA:HB1	1.95	0.42
1:D:520:PHE:CZ	1:D:576:LYS:HD3	2.53	0.42
1:D:1198:ARG:O	1:D:1201:GLN:N	2.52	0.42
1:D:2399:LEU:C	1:D:2399:LEU:CD1	2.85	0.42
1:C:525:ALA:HB3	1:C:526:PRO:CD	2.45	0.42
1:C:2273:MET:SD	1:C:2273:MET:O	2.77	0.42
1:C:2434:VAL:HG12	1:C:2589:ILE:HD12	2.01	0.42
1:C:2581:VAL:CG2	1:C:2582:LEU:HD22	2.49	0.42
1:C:2703:GLU:HA	1:C:2706:MET:HG3	2.01	0.42
1:B:193:LEU:HD12	1:B:209:VAL:HG11	2.01	0.42
1:B:391:ARG:CG	1:B:396:ASN:CA	2.97	0.42
1:B:2252:ASN:HD22	1:B:2255:ASN:HD21	1.66	0.42
1:B:2434:VAL:HG12	1:B:2589:ILE:HD12	2.01	0.42
1:D:2612:PHE:O	1:D:2614:CYS:N	2.53	0.42
1:C:59:LYS:N	1:C:124:LEU:O	2.43	0.42
1:B:140:ALA:HB2	1:B:147:MET:H	1.83	0.42
1:B:2006:PHE:O	1:B:2010:ILE:N	2.53	0.42
1:B:2273:MET:HE3	1:B:2274:SER:CA	2.42	0.42
1:A:262:VAL:HG11	1:A:418:ILE:HD12	2.01	0.42
1:A:832:ARG:O	1:A:836:THR:N	2.52	0.42
1:A:2006:PHE:O	1:A:2010:ILE:N	2.53	0.42
1:A:2191:LYS:HE3	1:A:2191:LYS:HB2	1.32	0.42
1:A:2581:VAL:CG2	1:A:2582:LEU:HD22	2.49	0.42
1:A:2703:GLU:HA	1:A:2706:MET:HG3	2.00	0.42
1:D:2276:TRP:C	1:D:2276:TRP:HD1	2.26	0.42
1:D:2345:ILE:HD12	1:D:2350:LEU:HD11	1.98	0.42
1:D:2358:GLY:CA	1:D:2413:TYR:OH	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:605:LEU:O	1:C:609:HIS:N	2.43	0.42
1:B:262:VAL:HG11	1:B:418:ILE:HD12	2.01	0.42
1:B:1295:PHE:O	1:B:1299:ILE:N	2.52	0.42
1:B:1802:GLU:C	1:B:1804:ALA:N	2.73	0.42
1:A:239:VAL:HG23	1:A:435:VAL:HB	2.01	0.42
1:A:2246:ARG:HA	1:A:2246:ARG:HD3	1.89	0.42
1:A:2345:ILE:HD12	1:A:2350:LEU:HD11	1.98	0.42
1:C:2735:LEU:O	1:C:2738:HIS:HB3	2.19	0.42
1:B:1029:ASP:O	1:B:1033:ILE:N	2.49	0.42
1:B:2571:LEU:C	1:B:2571:LEU:CD1	2.85	0.42
1:A:520:PHE:CZ	1:A:576:LYS:HD3	2.53	0.42
1:A:2284:ALA:CB	1:A:2416:LEU:CD1	2.92	0.42
1:D:2213:PRO:HB2	1:D:2216:CYS:SG	2.59	0.42
1:C:2213:PRO:HB2	1:C:2216:CYS:SG	2.59	0.42
1:C:2276:TRP:C	1:C:2276:TRP:HD1	2.26	0.42
1:C:2579:ILE:HG22	1:C:2583:ASN:HD21	1.85	0.42
1:B:167:TYR:HD2	1:B:169:LEU:HB2	1.85	0.42
1:B:299:TRP:HE3	1:B:381:LEU:HD23	1.77	0.42
1:A:2399:LEU:HD12	1:A:2399:LEU:O	2.19	0.42
1:A:2423:ARG:C	1:A:2424:GLU:CD	2.64	0.42
1:D:141:LEU:HD12	1:D:142:LEU:HG	2.01	0.42
1:D:526:PRO:O	1:D:541:LEU:CD1	2.68	0.42
1:C:526:PRO:O	1:C:541:LEU:CD1	2.68	0.42
1:C:2272:ASN:HD22	1:C:2367:ILE:HG23	1.81	0.42
1:C:2612:PHE:O	1:C:2614:CYS:N	2.53	0.42
1:A:837:MET:O	1:A:841:GLU:N	2.46	0.42
1:A:2220:THR:OG1	1:A:2221:LYS:N	2.53	0.42
1:A:2276:TRP:C	1:A:2276:TRP:HD1	2.26	0.42
1:D:1345:TYR:O	1:D:1346:ASN:O	2.37	0.42
1:C:167:TYR:HD2	1:C:169:LEU:HB2	1.85	0.42
1:C:2191:LYS:HB2	1:C:2191:LYS:HE3	1.32	0.42
1:C:2457:ILE:O	1:C:2460:TYR:HB3	2.20	0.42
1:B:566:ASP:OD1	1:B:566:ASP:N	2.53	0.42
1:B:587:TYR:C	1:B:588:ASP:O	2.63	0.42
1:B:2252:ASN:HA	1:B:2252:ASN:HD22	1.45	0.42
1:B:2612:PHE:O	1:B:2614:CYS:N	2.53	0.42
1:A:133:THR:OG1	1:A:134:VAL:N	2.53	0.42
1:A:141:LEU:HD12	1:A:142:LEU:HG	2.01	0.42
1:A:2213:PRO:HB2	1:A:2216:CYS:SG	2.59	0.42
1:A:2276:TRP:CG	1:A:2368:PHE:CE1	2.95	0.42
1:A:2735:LEU:O	1:A:2738:HIS:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:167:TYR:HD2	1:D:169:LEU:HB2	1.85	0.42
1:D:2566:ARG:C	1:D:2566:ARG:CD	2.86	0.42
1:D:2699:GLN:CB	1:C:2700:GLU:CG	2.98	0.42
1:C:141:LEU:HD12	1:C:142:LEU:HG	2.01	0.42
1:C:391:ARG:CG	1:C:396:ASN:CA	2.97	0.42
1:C:587:TYR:C	1:C:588:ASP:O	2.63	0.42
1:C:832:ARG:O	1:C:836:THR:N	2.52	0.42
1:B:736:GLN:C	1:B:738:ASN:N	2.78	0.41
1:B:1345:TYR:O	1:B:1346:ASN:O	2.37	0.41
1:B:2266:LEU:C	1:B:2269:CYS:SG	3.03	0.41
1:B:2273:MET:SD	1:B:2273:MET:O	2.77	0.41
1:A:6:SER:OG	1:A:7:SER:N	2.52	0.41
1:D:239:VAL:HG23	1:D:435:VAL:HB	2.01	0.41
1:D:242:LEU:HD13	1:D:430:PHE:HE2	1.85	0.41
1:D:2176:PRO:O	1:D:2186:LEU:HD21	2.16	0.41
1:D:2202:ASP:HB2	1:D:2203:ARG:NH1	2.34	0.41
1:D:2231:THR:CG2	1:D:2232:GLU:C	2.87	0.41
1:D:2735:LEU:O	1:D:2738:HIS:HB3	2.19	0.41
1:C:363:ASP:OD2	1:C:365:SER:OG	2.35	0.41
1:B:66:TYR:HB3	1:B:156:ASN:CB	2.48	0.41
1:B:2088:LEU:O	1:B:2092:ALA:N	2.53	0.41
1:B:2579:ILE:O	1:B:2583:ASN:HB2	2.20	0.41
1:B:2707:LYS:CG	1:C:2706:MET:HB2	2.49	0.41
1:A:235:LYS:HG3	1:A:237:GLY:H	1.86	0.41
1:A:1979:ASN:O	1:A:1981:ASN:CA	2.67	0.41
1:A:2088:LEU:O	1:A:2092:ALA:N	2.53	0.41
1:A:2266:LEU:C	1:A:2269:CYS:SG	3.03	0.41
1:A:2457:ILE:O	1:A:2460:TYR:HB3	2.20	0.41
1:A:2624:LYS:HB3	1:A:2624:LYS:HE3	1.96	0.41
1:D:228:ASP:OD1	1:D:228:ASP:N	2.51	0.41
1:D:391:ARG:CG	1:D:396:ASN:CA	2.97	0.41
1:D:517:LYS:HA	1:D:520:PHE:CZ	2.56	0.41
1:D:2252:ASN:HD22	1:D:2255:ASN:HD21	1.66	0.41
1:D:2384:ARG:O	1:D:2388:LEU:HD23	2.03	0.41
1:D:2699:GLN:OE1	1:C:2700:GLU:C	2.62	0.41
1:C:239:VAL:HG23	1:C:435:VAL:HB	2.01	0.41
1:C:2006:PHE:O	1:C:2010:ILE:N	2.53	0.41
1:C:2088:LEU:O	1:C:2092:ALA:N	2.53	0.41
1:C:2579:ILE:O	1:C:2583:ASN:HB2	2.20	0.41
1:B:242:LEU:HD13	1:B:430:PHE:HE2	1.86	0.41
1:B:394:CYS:SG	1:A:2737:GLY:CA	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2216:CYS:O	1:B:2254:MET:HE2	2.21	0.41
1:B:2284:ALA:O	1:B:2285:VAL:C	2.59	0.41
1:B:2457:ILE:O	1:B:2460:TYR:HB3	2.20	0.41
1:A:736:GLN:C	1:A:738:ASN:N	2.78	0.41
1:A:2572:LEU:CD1	1:A:2572:LEU:C	2.86	0.41
1:D:193:LEU:HD12	1:D:209:VAL:HG11	2.01	0.41
1:D:286:VAL:HG13	1:D:301:SER:OG	2.21	0.41
1:D:518:GLN:HA	1:D:518:GLN:HE21	1.84	0.41
1:D:538:LEU:CD1	1:D:586:GLY:CA	2.86	0.41
1:D:2088:LEU:O	1:D:2092:ALA:N	2.53	0.41
1:D:2351:GLN:H	1:D:2352:PRO:HD3	1.79	0.41
1:D:2465:ASP:OD2	1:D:2530:THR:N	2.54	0.41
1:B:1803:GLY:C	1:B:1805:SER:N	2.70	0.41
1:A:286:VAL:HG13	1:A:301:SER:OG	2.21	0.41
1:A:2228:TYR:HB3	1:A:2229:TYR:HD1	1.85	0.41
1:D:235:LYS:HG3	1:D:237:GLY:H	1.86	0.41
1:D:1803:GLY:C	1:D:1805:SER:N	2.70	0.41
1:D:2266:LEU:C	1:D:2269:CYS:SG	3.03	0.41
1:C:2698:LEU:CD2	1:C:2698:LEU:N	2.73	0.41
1:B:133:THR:OG1	1:B:134:VAL:N	2.53	0.41
1:B:177:VAL:N	1:B:180:ASP:OD2	2.39	0.41
1:B:2252:ASN:HA	1:B:2255:ASN:ND2	2.34	0.41
1:A:242:LEU:HD13	1:A:430:PHE:HE2	1.86	0.41
1:A:363:ASP:OD2	1:A:365:SER:OG	2.35	0.41
1:A:427:LYS:NZ	1:D:167:TYR:HB2	2.35	0.41
1:A:2216:CYS:O	1:A:2254:MET:HE2	2.21	0.41
1:A:2465:ASP:OD2	1:A:2530:THR:N	2.54	0.41
1:A:2579:ILE:O	1:A:2583:ASN:HB2	2.20	0.41
1:A:2612:PHE:O	1:A:2614:CYS:N	2.53	0.41
1:A:2635:GLU:OE2	1:A:2636:HIS:ND1	2.54	0.41
1:D:286:VAL:HG22	1:D:303:PHE:HE1	1.86	0.41
1:D:1029:ASP:O	1:D:1033:ILE:N	2.49	0.41
1:D:2457:ILE:O	1:D:2460:TYR:HB3	2.20	0.41
1:C:526:PRO:HA	1:C:529:ASP:HB3	2.02	0.41
1:C:2259:LYS:HE3	1:C:2259:LYS:HB3	1.84	0.41
1:C:2273:MET:HE3	1:C:2274:SER:CA	2.42	0.41
1:C:2465:ASP:OD2	1:C:2530:THR:N	2.54	0.41
1:C:2635:GLU:OE2	1:C:2636:HIS:ND1	2.54	0.41
1:B:526:PRO:O	1:B:541:LEU:CD1	2.68	0.41
1:B:837:MET:O	1:B:841:GLU:N	2.46	0.41
1:B:2703:GLU:HA	1:B:2706:MET:HG3	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:526:PRO:HA	1:A:529:ASP:HB3	2.02	0.41
1:A:1964:THR:O	1:A:1965:ILE:C	2.63	0.41
1:A:2417:LEU:O	1:A:2417:LEU:HD13	2.21	0.41
1:A:2707:LYS:HB2	1:A:2707:LYS:NZ	2.34	0.41
1:D:587:TYR:C	1:D:588:ASP:O	2.63	0.41
1:D:1964:THR:O	1:D:1965:ILE:C	2.63	0.41
1:D:2409:HIS:O	1:D:2411:PHE:N	2.54	0.41
1:D:2579:ILE:O	1:D:2583:ASN:HB2	2.20	0.41
1:D:2706:MET:HB2	1:C:2707:LYS:CG	2.50	0.41
1:C:193:LEU:HD12	1:C:209:VAL:HG11	2.01	0.41
1:B:286:VAL:HG13	1:B:301:SER:OG	2.21	0.41
1:B:517:LYS:HA	1:B:520:PHE:CZ	2.56	0.41
1:B:2219:LEU:HD22	1:B:2220:THR:N	2.36	0.41
1:B:2443:LEU:H	1:B:2443:LEU:HG	1.65	0.41
1:B:2465:ASP:OD2	1:B:2530:THR:N	2.54	0.41
1:A:286:VAL:HG22	1:A:303:PHE:HE1	1.86	0.41
1:A:2252:ASN:HA	1:A:2255:ASN:ND2	2.34	0.41
1:D:364:ILE:HD12	1:C:2736:LEU:C	2.37	0.41
1:D:2545:SER:C	1:D:2547:GLY:N	2.79	0.41
1:D:2717:SER:O	1:D:2718:GLU:C	2.62	0.41
1:C:69:GLN:CD	1:C:69:GLN:N	2.66	0.41
1:C:196:SER:O	1:C:207:ASN:ND2	2.40	0.41
1:C:593:ASP:O	1:C:597:ALA:N	2.46	0.41
1:C:619:VAL:O	1:C:623:ARG:N	2.44	0.41
1:C:2345:ILE:CB	1:C:2353:THR:HG21	2.31	0.41
1:B:302:LEU:CD1	1:A:2733:ILE:HB	2.47	0.41
1:B:2220:THR:OG1	1:B:2221:LYS:N	2.53	0.41
1:B:2276:TRP:CG	1:B:2368:PHE:CE1	2.95	0.41
1:B:2409:HIS:O	1:B:2411:PHE:N	2.54	0.41
1:B:2728:LYS:C	1:B:2728:LYS:CD	2.91	0.41
1:A:526:PRO:O	1:A:541:LEU:CD1	2.68	0.41
1:A:587:TYR:C	1:A:588:ASP:O	2.63	0.41
1:D:526:PRO:HA	1:D:529:ASP:HB3	2.02	0.41
1:D:2417:LEU:O	1:D:2417:LEU:HD13	2.21	0.41
1:D:2571:LEU:HD12	1:D:2571:LEU:O	2.21	0.41
1:C:235:LYS:HG3	1:C:237:GLY:H	1.86	0.41
1:C:315:ALA:HB3	1:C:356:VAL:HB	2.03	0.41
1:C:364:ILE:HG21	1:C:394:CYS:HB3	2.03	0.41
1:C:736:GLN:C	1:C:738:ASN:N	2.78	0.41
1:C:2216:CYS:O	1:C:2254:MET:HE2	2.21	0.41
1:B:235:LYS:HG3	1:B:237:GLY:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1674:LYS:O	1:B:1678:THR:N	2.52	0.41
1:B:2244:PHE:HD1	1:B:2244:PHE:HA	1.51	0.41
1:B:2350:LEU:HA	1:B:2350:LEU:HD13	1.93	0.41
1:B:2422:TYR:CD1	1:B:2422:TYR:C	2.92	0.41
1:A:70:LYS:HZ2	1:A:70:LYS:CB	2.24	0.41
1:A:167:TYR:HD2	1:A:169:LEU:HB2	1.85	0.41
1:A:315:ALA:HB3	1:A:356:VAL:HB	2.03	0.41
1:A:2616:LEU:HD12	1:A:2616:LEU:HA	1.94	0.41
1:A:2694:GLU:C	1:A:2698:LEU:HD22	2.46	0.41
1:D:177:VAL:N	1:D:180:ASP:OD2	2.39	0.41
1:D:1978:GLU:O	1:D:1979:ASN:O	2.39	0.41
1:D:2228:TYR:HB3	1:D:2229:TYR:HD1	1.85	0.41
1:D:2616:LEU:HD12	1:D:2616:LEU:HA	1.94	0.41
1:D:2719:LEU:C	1:D:2719:LEU:CD1	2.91	0.41
1:C:286:VAL:HG13	1:C:301:SER:OG	2.21	0.41
1:C:461:GLU:HB3	1:C:525:ALA:HB1	1.95	0.41
1:C:517:LYS:HA	1:C:520:PHE:CZ	2.56	0.41
1:C:530:CYS:SG	1:C:541:LEU:CG	2.97	0.41
1:C:1978:GLU:O	1:C:1979:ASN:O	2.39	0.41
1:C:2220:THR:OG1	1:C:2221:LYS:N	2.53	0.41
1:C:2266:LEU:C	1:C:2269:CYS:SG	3.03	0.41
1:C:2409:HIS:O	1:C:2411:PHE:N	2.54	0.41
1:C:2417:LEU:O	1:C:2417:LEU:HD13	2.21	0.41
1:B:2635:GLU:OE2	1:B:2636:HIS:ND1	2.54	0.41
1:B:2731:GLN:OE1	1:B:2731:GLN:CA	2.69	0.41
1:A:517:LYS:HA	1:A:520:PHE:CZ	2.56	0.41
1:A:2409:HIS:O	1:A:2411:PHE:N	2.54	0.41
1:D:196:SER:O	1:D:207:ASN:ND2	2.40	0.41
1:D:364:ILE:HG21	1:D:394:CYS:HB3	2.03	0.41
1:D:521:LYS:HZ2	1:D:521:LYS:CB	2.21	0.41
1:D:525:ALA:CB	1:D:526:PRO:HD2	2.45	0.41
1:D:2220:THR:OG1	1:D:2221:LYS:N	2.53	0.41
1:D:2243:PHE:HZ	1:D:2612:PHE:CE2	1.76	0.41
1:D:2417:LEU:HD22	1:D:2417:LEU:C	2.46	0.41
1:D:2695:LEU:CA	1:D:2698:LEU:CD1	2.97	0.41
1:C:6:SER:OG	1:C:7:SER:N	2.52	0.41
1:C:2228:TYR:HB3	1:C:2229:TYR:HD1	1.85	0.41
1:C:2399:LEU:HD12	1:C:2399:LEU:O	2.19	0.41
1:B:2251:PHE:CD1	1:B:2251:PHE:O	2.74	0.40
1:B:2673:ASP:OD1	1:B:2673:ASP:N	2.53	0.40
1:A:2545:SER:C	1:A:2547:GLY:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2227:ILE:HD13	1:D:2227:ILE:HA	1.64	0.40
1:D:2730:LYS:O	1:D:2730:LYS:CE	2.69	0.40
1:D:2731:GLN:OE1	1:D:2731:GLN:CA	2.69	0.40
1:C:242:LEU:HD13	1:C:430:PHE:HE2	1.85	0.40
1:C:286:VAL:HG22	1:C:303:PHE:HE1	1.86	0.40
1:C:2219:LEU:HD22	1:C:2220:THR:N	2.35	0.40
1:C:2251:PHE:CD1	1:C:2251:PHE:O	2.74	0.40
1:B:315:ALA:HB3	1:B:356:VAL:HB	2.03	0.40
1:B:1964:THR:O	1:B:1965:ILE:C	2.63	0.40
1:B:2548:GLY:O	1:B:2549:VAL:HB	2.22	0.40
1:B:2567:VAL:HG22	1:B:2567:VAL:H	1.62	0.40
1:A:2219:LEU:HD22	1:A:2220:THR:N	2.35	0.40
1:A:2571:LEU:HD12	1:A:2571:LEU:O	2.21	0.40
1:A:2579:ILE:HG22	1:A:2583:ASN:HD21	1.85	0.40
1:D:315:ALA:HB3	1:D:356:VAL:HB	2.03	0.40
1:D:2122:VAL:O	1:D:2126:LYS:N	2.51	0.40
1:D:2406:LEU:CD2	1:D:2407:PHE:CZ	3.04	0.40
1:C:177:VAL:N	1:C:180:ASP:OD2	2.39	0.40
1:C:2393:LEU:HD23	1:C:2393:LEU:HA	1.77	0.40
1:C:2405:GLY:HA2	1:C:2408:VAL:CG1	2.50	0.40
1:C:2545:SER:C	1:C:2547:GLY:N	2.79	0.40
1:C:2612:PHE:CE2	1:C:2638:MET:HG3	2.56	0.40
1:C:2731:GLN:OE1	1:C:2731:GLN:CA	2.69	0.40
1:B:286:VAL:HG22	1:B:303:PHE:HE1	1.86	0.40
1:B:2228:TYR:HB3	1:B:2229:TYR:HD1	1.85	0.40
1:A:538:LEU:HD11	1:A:586:GLY:CA	2.51	0.40
1:A:1027:ALA:O	1:A:1031:GLU:N	2.44	0.40
1:A:2279:ILE:HD13	1:A:2364:ASN:CB	2.07	0.40
1:A:2624:LYS:O	1:A:2624:LYS:CE	2.70	0.40
1:A:2699:GLN:CB	1:D:2700:GLU:CG	2.99	0.40
1:A:2708:LEU:CD1	1:A:2708:LEU:N	2.72	0.40
1:D:574:ILE:HA	1:D:577:GLN:HG2	2.03	0.40
1:D:1307:GLN:O	1:D:1311:PHE:N	2.48	0.40
1:D:2006:PHE:O	1:D:2010:ILE:N	2.53	0.40
1:D:2219:LEU:HD22	1:D:2220:THR:N	2.36	0.40
1:D:2250:LEU:HD22	1:D:2253:GLU:CG	2.52	0.40
1:D:2624:LYS:O	1:D:2624:LYS:CE	2.70	0.40
1:C:133:THR:OG1	1:C:134:VAL:N	2.53	0.40
1:C:1313:GLN:O	1:C:1317:LYS:N	2.49	0.40
1:C:2624:LYS:CE	1:C:2624:LYS:O	2.70	0.40
1:B:526:PRO:HA	1:B:529:ASP:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2423:ARG:HB3	1:B:2423:ARG:HH11	1.84	0.40
1:B:2693:ASN:N	1:B:2693:ASN:HD22	2.20	0.40
1:B:2728:LYS:C	1:B:2728:LYS:HZ2	2.29	0.40
1:A:58:PHE:CG	1:A:123:LEU:HD21	2.57	0.40
1:A:574:ILE:HA	1:A:577:GLN:HG2	2.03	0.40
1:A:1674:LYS:O	1:A:1678:THR:N	2.52	0.40
1:A:1978:GLU:O	1:A:1979:ASN:O	2.39	0.40
1:A:2673:ASP:OD1	1:A:2673:ASP:N	2.53	0.40
1:A:2727:ARG:HA	1:A:2727:ARG:HD2	1.89	0.40
1:D:6:SER:OG	1:D:7:SER:N	2.52	0.40
1:D:133:THR:OG1	1:D:134:VAL:N	2.53	0.40
1:D:2216:CYS:O	1:D:2254:MET:HE2	2.21	0.40
1:D:2252:ASN:HA	1:D:2255:ASN:ND2	2.34	0.40
1:C:2283:LEU:HD23	1:C:2283:LEU:C	2.47	0.40
1:B:364:ILE:HG21	1:B:394:CYS:HB3	2.03	0.40
1:B:1027:ALA:O	1:B:1031:GLU:N	2.44	0.40
1:B:2537:THR:O	1:B:2541:HIS:N	2.46	0.40
1:B:2730:LYS:O	1:B:2730:LYS:CE	2.69	0.40
1:B:2737:GLY:CA	1:C:394:CYS:SG	3.09	0.40
1:D:58:PHE:CD2	1:D:123:LEU:HD21	2.57	0.40
1:D:2030:VAL:O	1:D:2034:ASN:N	2.52	0.40
1:D:2411:PHE:HE2	1:D:2412:PHE:CD2	2.34	0.40
1:D:2579:ILE:HG22	1:D:2583:ASN:HD21	1.85	0.40
1:D:2635:GLU:OE2	1:D:2636:HIS:ND1	2.54	0.40
1:C:4:LYS:HD2	1:C:5:MET:HG2	2.04	0.40
1:C:2727:ARG:CD	1:C:2727:ARG:O	2.70	0.40
1:C:2730:LYS:O	1:C:2730:LYS:CE	2.69	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	2132/2750 (78%)	1860 (87%)	235 (11%)	37 (2%)	7	35
1	B	2132/2750 (78%)	1862 (87%)	233 (11%)	37 (2%)	7	35
1	C	2132/2750 (78%)	1860 (87%)	235 (11%)	37 (2%)	7	35
1	D	2132/2750 (78%)	1861 (87%)	234 (11%)	37 (2%)	7	35
All	All	8528/11000 (78%)	7443 (87%)	937 (11%)	148 (2%)	9	35

All (148) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	588	ASP
1	B	1073	PRO
1	B	1074	PRO
1	B	1190	GLU
1	B	1199	LYS
1	B	1279	ASN
1	B	1341	VAL
1	B	1346	ASN
1	B	1874	THR
1	B	1983	ASP
1	B	1995	THR
1	B	2232	GLU
1	B	2411	PHE
1	B	2549	VAL
1	B	2626	VAL
1	A	588	ASP
1	A	1073	PRO
1	A	1074	PRO
1	A	1190	GLU
1	A	1199	LYS
1	A	1279	ASN
1	A	1341	VAL
1	A	1346	ASN
1	A	1874	THR
1	A	1983	ASP
1	A	1995	THR
1	A	2232	GLU
1	A	2411	PHE
1	A	2549	VAL
1	A	2626	VAL
1	D	588	ASP
1	D	1073	PRO
1	D	1074	PRO

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Mol	Chain	Res	Type
1	D	1190	GLU
1	D	1199	LYS
1	D	1279	ASN
1	D	1341	VAL
1	D	1346	ASN
1	D	1874	THR
1	D	1983	ASP
1	D	1995	THR
1	D	2232	GLU
1	D	2411	PHE
1	D	2549	VAL
1	D	2626	VAL
1	C	588	ASP
1	C	1073	PRO
1	C	1074	PRO
1	C	1190	GLU
1	C	1199	LYS
1	C	1279	ASN
1	C	1341	VAL
1	C	1346	ASN
1	C	1874	THR
1	C	1983	ASP
1	C	1995	THR
1	C	2232	GLU
1	C	2411	PHE
1	C	2549	VAL
1	C	2626	VAL
1	B	657	LEU
1	B	792	ARG
1	B	1979	ASN
1	B	2143	GLU
1	B	2190	ALA
1	B	2220	THR
1	A	657	LEU
1	A	792	ARG
1	A	1979	ASN
1	A	2143	GLU
1	A	2190	ALA
1	A	2220	THR
1	D	657	LEU
1	D	792	ARG
1	D	1979	ASN

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Mol	Chain	Res	Type
1	D	2143	GLU
1	D	2190	ALA
1	D	2220	THR
1	C	657	LEU
1	C	792	ARG
1	C	1979	ASN
1	C	2143	GLU
1	C	2190	ALA
1	C	2220	THR
1	B	299	TRP
1	B	585	ILE
1	B	896	ASP
1	B	1387	GLU
1	B	1417	PRO
1	B	2179	GLN
1	B	2276	TRP
1	B	2698	LEU
1	A	585	ILE
1	A	896	ASP
1	A	1387	GLU
1	A	1417	PRO
1	A	2179	GLN
1	A	2276	TRP
1	A	2698	LEU
1	D	585	ILE
1	D	896	ASP
1	D	1387	GLU
1	D	1417	PRO
1	D	2179	GLN
1	D	2276	TRP
1	D	2698	LEU
1	C	585	ILE
1	C	896	ASP
1	C	1387	GLU
1	C	1417	PRO
1	C	2179	GLN
1	C	2276	TRP
1	C	2698	LEU
1	B	1804	ALA
1	B	2554	ARG
1	A	299	TRP
1	A	1804	ALA

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Mol	Chain	Res	Type
1	A	2554	ARG
1	D	299	TRP
1	D	1804	ALA
1	D	2554	ARG
1	C	299	TRP
1	C	1804	ALA
1	C	2554	ARG
1	B	303	PHE
1	B	2203	ARG
1	A	303	PHE
1	D	303	PHE
1	C	303	PHE
1	B	232	ASP
1	B	659	PRO
1	B	2018	LEU
1	B	2426	THR
1	A	232	ASP
1	A	659	PRO
1	A	2018	LEU
1	A	2203	ARG
1	A	2426	THR
1	D	232	ASP
1	D	659	PRO
1	D	2018	LEU
1	D	2203	ARG
1	D	2426	THR
1	C	232	ASP
1	C	659	PRO
1	C	2018	LEU
1	C	2203	ARG
1	C	2426	THR

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.

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	921/2459 (38%)	786 (85%)	135 (15%)	3	16
1	B	921/2459 (38%)	786 (85%)	135 (15%)	3	16
1	C	921/2459 (38%)	786 (85%)	135 (15%)	3	16
1	D	921/2459 (38%)	786 (85%)	135 (15%)	3	16
All	All	3684/9836 (38%)	3144 (85%)	540 (15%)	5	16

All (540) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	64	ASN
1	B	69	GLN
1	B	70	LYS
1	B	74	LYS
1	B	286	VAL
1	B	392	HIS
1	B	395	THR
1	B	397	THR
1	B	514	ASN
1	B	515	ILE
1	B	516	LEU
1	B	517	LYS
1	B	521	LYS
1	B	522	LEU
1	B	523	LEU
1	B	524	GLN
1	B	526	PRO
1	B	529	ASP
1	B	2186	LEU
1	B	2187	GLU
1	B	2189	TYR
1	B	2191	LYS
1	B	2193	THR
1	B	2195	GLN
1	B	2203	ARG
1	B	2216	CYS
1	B	2217	GLU
1	B	2221	LYS
1	B	2222	GLU
1	B	2226	ARG

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Mol	Chain	Res	Type
1	B	2227	ILE
1	B	2231	THR
1	B	2240	ILE
1	B	2244	PHE
1	B	2245	LEU
1	B	2249	ASP
1	B	2250	LEU
1	B	2253	GLU
1	B	2259	LYS
1	B	2268	TRP
1	B	2273	MET
1	B	2275	PHE
1	B	2276	TRP
1	B	2280	SER
1	B	2288	ASN
1	B	2289	LEU
1	B	2290	LEU
1	B	2294	PHE
1	B	2336	LEU
1	B	2337	ILE
1	B	2342	LEU
1	B	2344	LEU
1	B	2346	PHE
1	B	2348	VAL
1	B	2351	GLN
1	B	2353	THR
1	B	2354	LEU
1	B	2356	LEU
1	B	2357	LEU
1	B	2361	ASN
1	B	2365	LYS
1	B	2369	LEU
1	B	2370	MET
1	B	2371	SER
1	B	2373	VAL
1	B	2386	MET
1	B	2387	VAL
1	B	2388	LEU
1	B	2399	LEU
1	B	2400	LEU
1	B	2409	HIS
1	B	2410	GLU

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Mol	Chain	Res	Type
1	B	2411	PHE
1	B	2417	LEU
1	B	2419	ASP
1	B	2420	LEU
1	B	2421	VAL
1	B	2422	TYR
1	B	2423	ARG
1	B	2443	LEU
1	B	2454	LEU
1	B	2456	SER
1	B	2457	ILE
1	B	2468	ILE
1	B	2529	GLU
1	B	2536	VAL
1	B	2539	LEU
1	B	2544	ARG
1	B	2551	ASP
1	B	2554	ARG
1	B	2566	ARG
1	B	2567	VAL
1	B	2571	LEU
1	B	2572	LEU
1	B	2575	PHE
1	B	2576	MET
1	B	2578	ILE
1	B	2582	LEU
1	B	2585	ILE
1	B	2596	LEU
1	B	2599	GLU
1	B	2600	LYS
1	B	2602	LYS
1	B	2606	ILE
1	B	2613	ILE
1	B	2619	ASP
1	B	2621	PHE
1	B	2622	ASP
1	B	2624	LYS
1	B	2630	GLU
1	B	2633	LYS
1	B	2638	MET
1	B	2649	LYS
1	B	2660	GLU

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Mol	Chain	Res	Type
1	B	2665	GLU
1	B	2672	LEU
1	B	2692	GLN
1	B	2695	LEU
1	B	2698	LEU
1	B	2699	GLN
1	B	2705	THR
1	B	2707	LYS
1	B	2708	LEU
1	B	2709	VAL
1	B	2712	LEU
1	B	2715	GLN
1	B	2716	LEU
1	B	2719	LEU
1	B	2720	LYS
1	B	2721	ASP
1	B	2722	GLN
1	B	2723	MET
1	B	2730	LYS
1	B	2733	ILE
1	B	2735	LEU
1	A	64	ASN
1	A	69	GLN
1	A	70	LYS
1	A	74	LYS
1	A	286	VAL
1	A	392	HIS
1	A	395	THR
1	A	397	THR
1	A	514	ASN
1	A	515	ILE
1	A	516	LEU
1	A	517	LYS
1	A	521	LYS
1	A	522	LEU
1	A	523	LEU
1	A	524	GLN
1	A	526	PRO
1	A	529	ASP
1	A	2186	LEU
1	A	2187	GLU
1	A	2189	TYR

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Mol	Chain	Res	Type
1	A	2191	LYS
1	A	2193	THR
1	A	2195	GLN
1	A	2203	ARG
1	A	2216	CYS
1	A	2217	GLU
1	A	2221	LYS
1	A	2222	GLU
1	A	2226	ARG
1	A	2227	ILE
1	A	2231	THR
1	A	2240	ILE
1	A	2244	PHE
1	A	2245	LEU
1	A	2249	ASP
1	A	2250	LEU
1	A	2253	GLU
1	A	2259	LYS
1	A	2268	TRP
1	A	2273	MET
1	A	2275	PHE
1	A	2276	TRP
1	A	2280	SER
1	A	2288	ASN
1	A	2289	LEU
1	A	2290	LEU
1	A	2294	PHE
1	A	2336	LEU
1	A	2337	ILE
1	A	2342	LEU
1	A	2344	LEU
1	A	2346	PHE
1	A	2348	VAL
1	A	2351	GLN
1	A	2353	THR
1	A	2354	LEU
1	A	2356	LEU
1	A	2357	LEU
1	A	2361	ASN
1	A	2365	LYS
1	A	2369	LEU
1	A	2370	MET

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Mol	Chain	Res	Type
1	A	2371	SER
1	A	2373	VAL
1	A	2386	MET
1	A	2387	VAL
1	A	2388	LEU
1	A	2399	LEU
1	A	2400	LEU
1	A	2409	HIS
1	A	2410	GLU
1	A	2411	PHE
1	A	2417	LEU
1	A	2419	ASP
1	A	2420	LEU
1	A	2421	VAL
1	A	2422	TYR
1	A	2423	ARG
1	A	2443	LEU
1	A	2454	LEU
1	A	2456	SER
1	A	2457	ILE
1	A	2468	ILE
1	A	2529	GLU
1	A	2536	VAL
1	A	2539	LEU
1	A	2544	ARG
1	A	2551	ASP
1	A	2554	ARG
1	A	2566	ARG
1	A	2567	VAL
1	A	2571	LEU
1	A	2572	LEU
1	A	2575	PHE
1	A	2576	MET
1	A	2578	ILE
1	A	2582	LEU
1	A	2585	ILE
1	A	2596	LEU
1	A	2599	GLU
1	A	2600	LYS
1	A	2602	LYS
1	A	2606	ILE
1	A	2613	ILE

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Mol	Chain	Res	Type
1	A	2619	ASP
1	A	2621	PHE
1	A	2622	ASP
1	A	2624	LYS
1	A	2630	GLU
1	A	2633	LYS
1	A	2638	MET
1	A	2649	LYS
1	A	2660	GLU
1	A	2665	GLU
1	A	2672	LEU
1	A	2692	GLN
1	A	2695	LEU
1	A	2698	LEU
1	A	2699	GLN
1	A	2705	THR
1	A	2707	LYS
1	A	2708	LEU
1	A	2709	VAL
1	A	2712	LEU
1	A	2715	GLN
1	A	2716	LEU
1	A	2719	LEU
1	A	2720	LYS
1	A	2721	ASP
1	A	2722	GLN
1	A	2723	MET
1	A	2730	LYS
1	A	2733	ILE
1	A	2735	LEU
1	D	64	ASN
1	D	69	GLN
1	D	70	LYS
1	D	74	LYS
1	D	286	VAL
1	D	392	HIS
1	D	395	THR
1	D	397	THR
1	D	514	ASN
1	D	515	ILE
1	D	516	LEU
1	D	517	LYS

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Mol	Chain	Res	Type
1	D	521	LYS
1	D	522	LEU
1	D	523	LEU
1	D	524	GLN
1	D	526	PRO
1	D	529	ASP
1	D	2186	LEU
1	D	2187	GLU
1	D	2189	TYR
1	D	2191	LYS
1	D	2193	THR
1	D	2195	GLN
1	D	2203	ARG
1	D	2216	CYS
1	D	2217	GLU
1	D	2221	LYS
1	D	2222	GLU
1	D	2226	ARG
1	D	2227	ILE
1	D	2231	THR
1	D	2240	ILE
1	D	2244	PHE
1	D	2245	LEU
1	D	2249	ASP
1	D	2250	LEU
1	D	2253	GLU
1	D	2259	LYS
1	D	2268	TRP
1	D	2273	MET
1	D	2275	PHE
1	D	2276	TRP
1	D	2280	SER
1	D	2288	ASN
1	D	2289	LEU
1	D	2290	LEU
1	D	2294	PHE
1	D	2336	LEU
1	D	2337	ILE
1	D	2342	LEU
1	D	2344	LEU
1	D	2346	PHE
1	D	2348	VAL

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Mol	Chain	Res	Type
1	D	2351	GLN
1	D	2353	THR
1	D	2354	LEU
1	D	2356	LEU
1	D	2357	LEU
1	D	2361	ASN
1	D	2365	LYS
1	D	2369	LEU
1	D	2370	MET
1	D	2371	SER
1	D	2373	VAL
1	D	2386	MET
1	D	2387	VAL
1	D	2388	LEU
1	D	2399	LEU
1	D	2400	LEU
1	D	2409	HIS
1	D	2410	GLU
1	D	2411	PHE
1	D	2417	LEU
1	D	2419	ASP
1	D	2420	LEU
1	D	2421	VAL
1	D	2422	TYR
1	D	2423	ARG
1	D	2443	LEU
1	D	2454	LEU
1	D	2456	SER
1	D	2457	ILE
1	D	2468	ILE
1	D	2529	GLU
1	D	2536	VAL
1	D	2539	LEU
1	D	2544	ARG
1	D	2551	ASP
1	D	2554	ARG
1	D	2566	ARG
1	D	2567	VAL
1	D	2571	LEU
1	D	2572	LEU
1	D	2575	PHE
1	D	2576	MET

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Mol	Chain	Res	Type
1	D	2578	ILE
1	D	2582	LEU
1	D	2585	ILE
1	D	2596	LEU
1	D	2599	GLU
1	D	2600	LYS
1	D	2602	LYS
1	D	2606	ILE
1	D	2613	ILE
1	D	2619	ASP
1	D	2621	PHE
1	D	2622	ASP
1	D	2624	LYS
1	D	2630	GLU
1	D	2633	LYS
1	D	2638	MET
1	D	2649	LYS
1	D	2660	GLU
1	D	2665	GLU
1	D	2672	LEU
1	D	2692	GLN
1	D	2695	LEU
1	D	2698	LEU
1	D	2699	GLN
1	D	2705	THR
1	D	2707	LYS
1	D	2708	LEU
1	D	2709	VAL
1	D	2712	LEU
1	D	2715	GLN
1	D	2716	LEU
1	D	2719	LEU
1	D	2720	LYS
1	D	2721	ASP
1	D	2722	GLN
1	D	2723	MET
1	D	2730	LYS
1	D	2733	ILE
1	D	2735	LEU
1	C	64	ASN
1	C	69	GLN
1	C	70	LYS

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Mol	Chain	Res	Type
1	C	74	LYS
1	C	286	VAL
1	C	392	HIS
1	C	395	THR
1	C	397	THR
1	C	514	ASN
1	C	515	ILE
1	C	516	LEU
1	C	517	LYS
1	C	521	LYS
1	C	522	LEU
1	C	523	LEU
1	C	524	GLN
1	C	526	PRO
1	C	529	ASP
1	C	2186	LEU
1	C	2187	GLU
1	C	2189	TYR
1	C	2191	LYS
1	C	2193	THR
1	C	2195	GLN
1	C	2203	ARG
1	C	2216	CYS
1	C	2217	GLU
1	C	2221	LYS
1	C	2222	GLU
1	C	2226	ARG
1	C	2227	ILE
1	C	2231	THR
1	C	2240	ILE
1	C	2244	PHE
1	C	2245	LEU
1	C	2249	ASP
1	C	2250	LEU
1	C	2253	GLU
1	C	2259	LYS
1	C	2268	TRP
1	C	2273	MET
1	C	2275	PHE
1	C	2276	TRP
1	C	2280	SER
1	C	2288	ASN

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Mol	Chain	Res	Type
1	C	2289	LEU
1	C	2290	LEU
1	C	2294	PHE
1	C	2336	LEU
1	C	2337	ILE
1	C	2342	LEU
1	C	2344	LEU
1	C	2346	PHE
1	C	2348	VAL
1	C	2351	GLN
1	C	2353	THR
1	C	2354	LEU
1	C	2356	LEU
1	C	2357	LEU
1	C	2361	ASN
1	C	2365	LYS
1	C	2369	LEU
1	C	2370	MET
1	C	2371	SER
1	C	2373	VAL
1	C	2386	MET
1	C	2387	VAL
1	C	2388	LEU
1	C	2399	LEU
1	C	2400	LEU
1	C	2409	HIS
1	C	2410	GLU
1	C	2411	PHE
1	C	2417	LEU
1	C	2419	ASP
1	C	2420	LEU
1	C	2421	VAL
1	C	2422	TYR
1	C	2423	ARG
1	C	2443	LEU
1	C	2454	LEU
1	C	2456	SER
1	C	2457	ILE
1	C	2468	ILE
1	C	2529	GLU
1	C	2536	VAL
1	C	2539	LEU

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Mol	Chain	Res	Type
1	C	2544	ARG
1	C	2551	ASP
1	C	2554	ARG
1	C	2566	ARG
1	C	2567	VAL
1	C	2571	LEU
1	C	2572	LEU
1	C	2575	PHE
1	C	2576	MET
1	C	2578	ILE
1	C	2582	LEU
1	C	2585	ILE
1	C	2596	LEU
1	C	2599	GLU
1	C	2600	LYS
1	C	2602	LYS
1	C	2606	ILE
1	C	2613	ILE
1	C	2619	ASP
1	C	2621	PHE
1	C	2622	ASP
1	C	2624	LYS
1	C	2630	GLU
1	C	2633	LYS
1	C	2638	MET
1	C	2649	LYS
1	C	2660	GLU
1	C	2665	GLU
1	C	2672	LEU
1	C	2692	GLN
1	C	2695	LEU
1	C	2698	LEU
1	C	2699	GLN
1	C	2705	THR
1	C	2707	LYS
1	C	2708	LEU
1	C	2709	VAL
1	C	2712	LEU
1	C	2715	GLN
1	C	2716	LEU
1	C	2719	LEU
1	C	2720	LYS

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Mol	Chain	Res	Type
1	C	2721	ASP
1	C	2722	GLN
1	C	2723	MET
1	C	2730	LYS
1	C	2733	ILE
1	C	2735	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (100) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	40	GLN
1	B	94	HIS
1	B	164	GLN
1	B	185	ASN
1	B	289	HIS
1	B	300	ASN
1	B	307	HIS
1	B	362	ASN
1	B	403	ASN
1	B	492	GLN
1	B	565	GLN
1	B	571	GLN
1	B	2252	ASN
1	B	2255	ASN
1	B	2272	ASN
1	B	2364	ASN
1	B	2375	ASN
1	B	2395	HIS
1	B	2623	ASN
1	B	2631	HIS
1	B	2637	ASN
1	B	2692	GLN
1	B	2693	ASN
1	B	2711	ASN
1	B	2715	GLN
1	B	2722	GLN
1	A	40	GLN
1	A	94	HIS
1	A	164	GLN
1	A	185	ASN
1	A	289	HIS
1	A	300	ASN

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Mol	Chain	Res	Type
1	A	307	HIS
1	A	362	ASN
1	A	492	GLN
1	A	565	GLN
1	A	571	GLN
1	A	2252	ASN
1	A	2255	ASN
1	A	2272	ASN
1	A	2364	ASN
1	A	2375	ASN
1	A	2395	HIS
1	A	2623	ASN
1	A	2631	HIS
1	A	2637	ASN
1	A	2692	GLN
1	A	2693	ASN
1	A	2711	ASN
1	A	2715	GLN
1	D	40	GLN
1	D	94	HIS
1	D	164	GLN
1	D	185	ASN
1	D	289	HIS
1	D	300	ASN
1	D	307	HIS
1	D	362	ASN
1	D	403	ASN
1	D	492	GLN
1	D	565	GLN
1	D	571	GLN
1	D	2252	ASN
1	D	2255	ASN
1	D	2272	ASN
1	D	2364	ASN
1	D	2375	ASN
1	D	2395	HIS
1	D	2623	ASN
1	D	2631	HIS
1	D	2637	ASN
1	D	2692	GLN
1	D	2693	ASN
1	D	2711	ASN

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Mol	Chain	Res	Type
1	D	2715	GLN
1	C	40	GLN
1	C	94	HIS
1	C	164	GLN
1	C	185	ASN
1	C	289	HIS
1	C	300	ASN
1	C	307	HIS
1	C	362	ASN
1	C	403	ASN
1	C	492	GLN
1	C	565	GLN
1	C	2252	ASN
1	C	2255	ASN
1	C	2272	ASN
1	C	2364	ASN
1	C	2375	ASN
1	C	2395	HIS
1	C	2623	ASN
1	C	2631	HIS
1	C	2637	ASN
1	C	2692	GLN
1	C	2693	ASN
1	C	2711	ASN
1	C	2715	GLN
1	C	2722	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

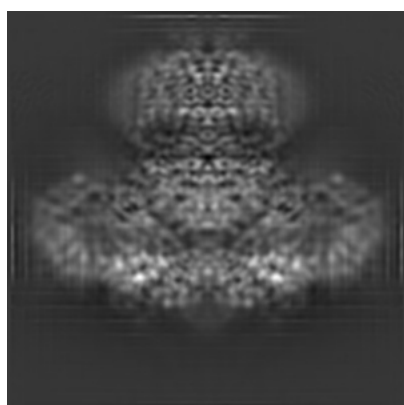
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9244. These allow visual inspection of the internal detail of the map and identification of artifacts.

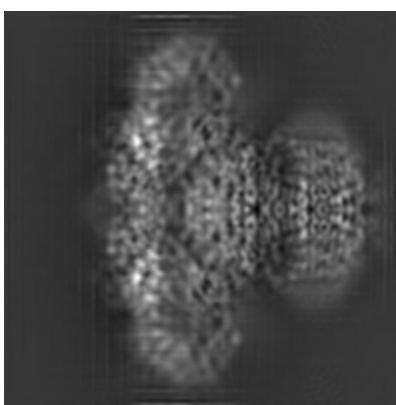
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

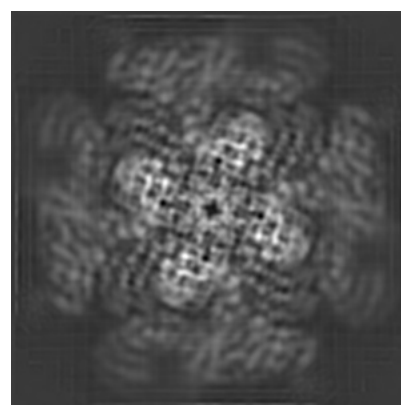
6.1.1 Primary map



X



Y



Z

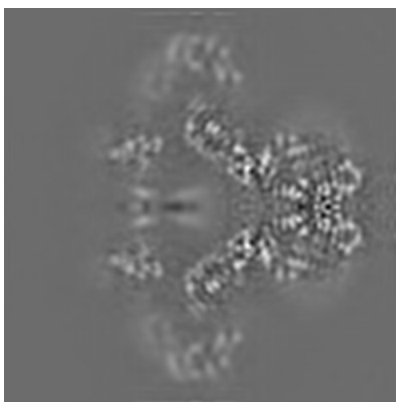
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

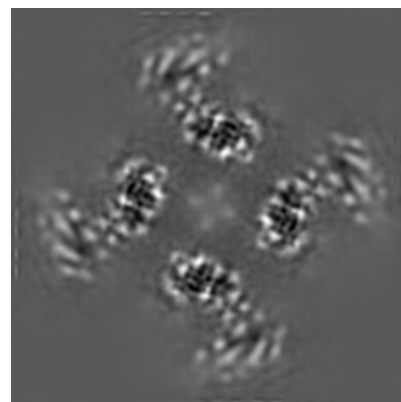
6.2.1 Primary map



X Index: 100



Y Index: 100

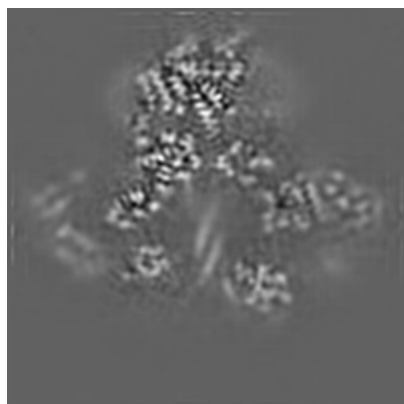


Z Index: 100

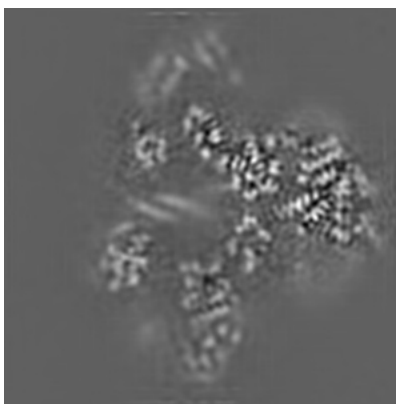
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

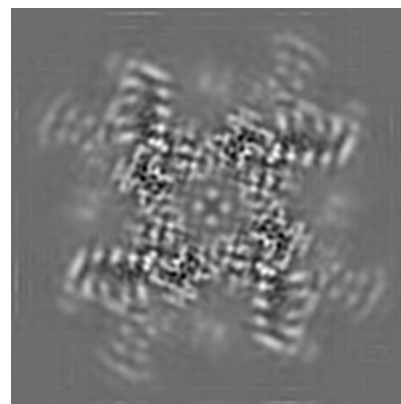
6.3.1 Primary map



X Index: 94



Y Index: 94

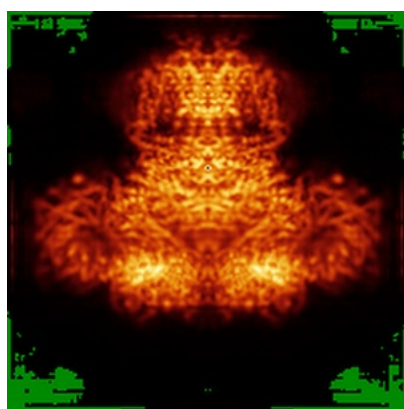


Z Index: 70

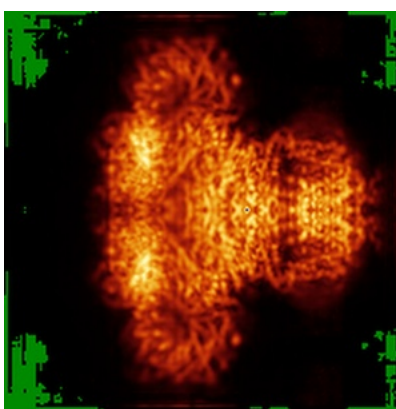
The images above show the largest variance slices of the map in three orthogonal directions.

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

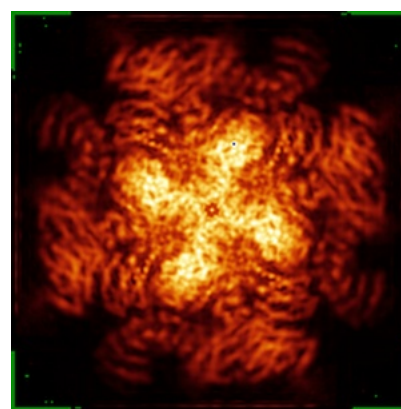
6.4.1 Primary map



X



Y

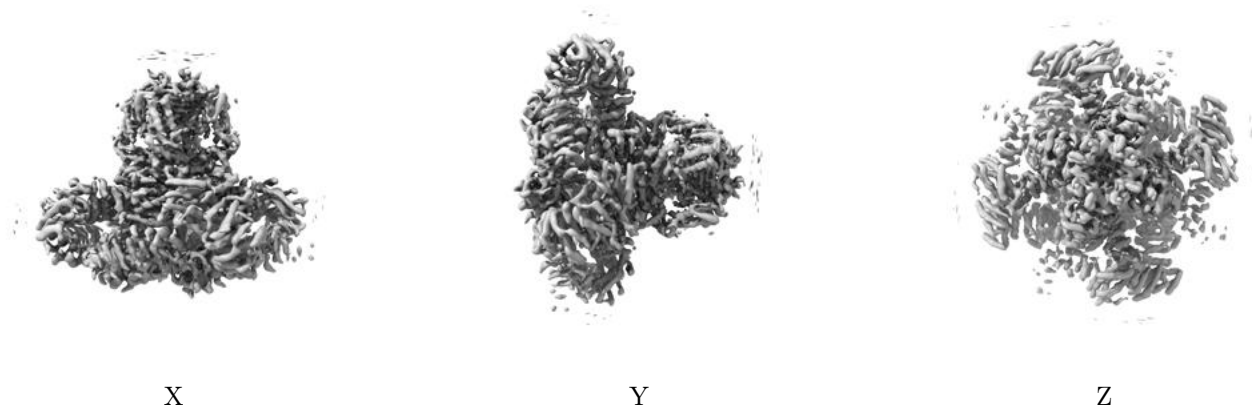


Z

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

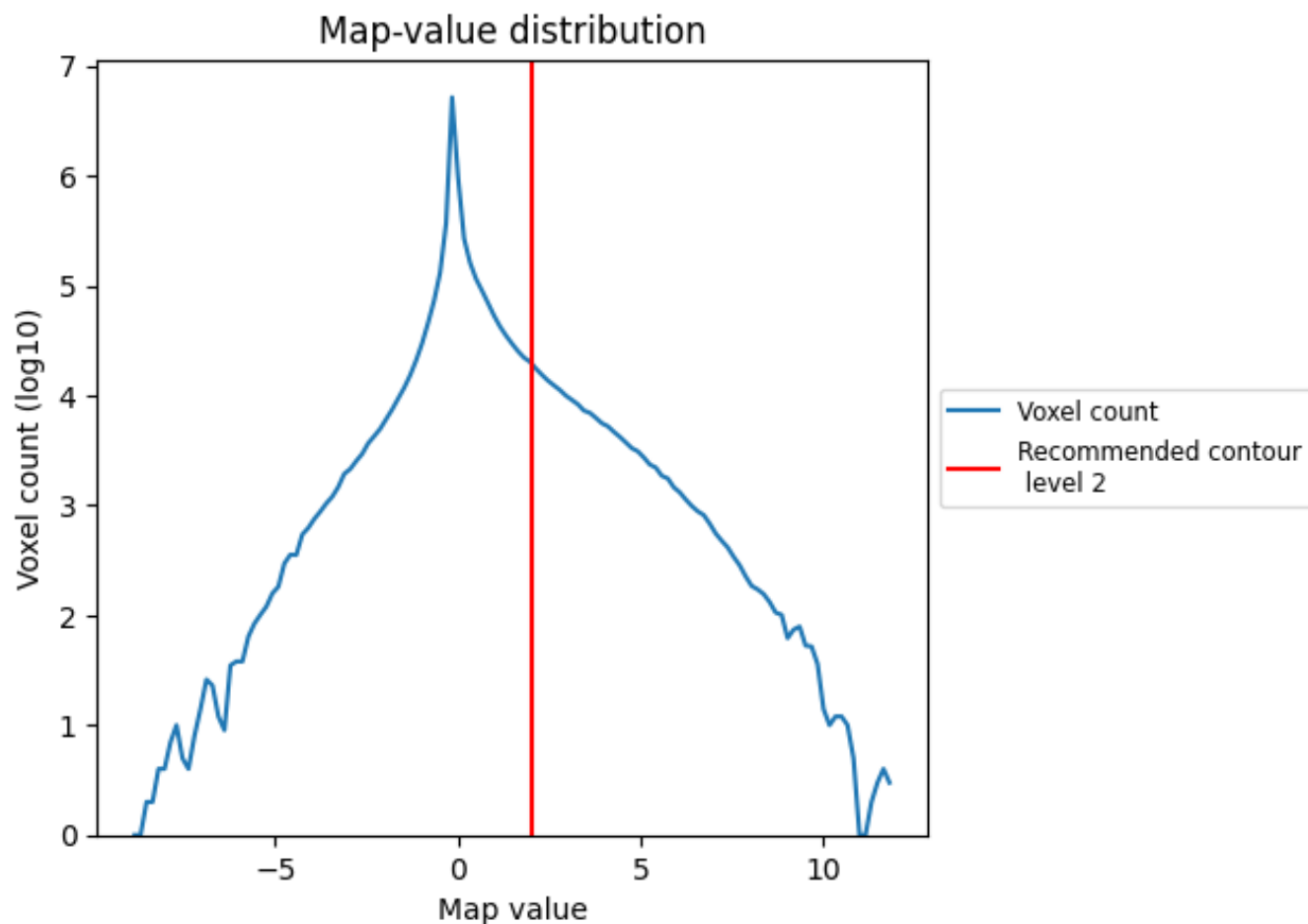
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

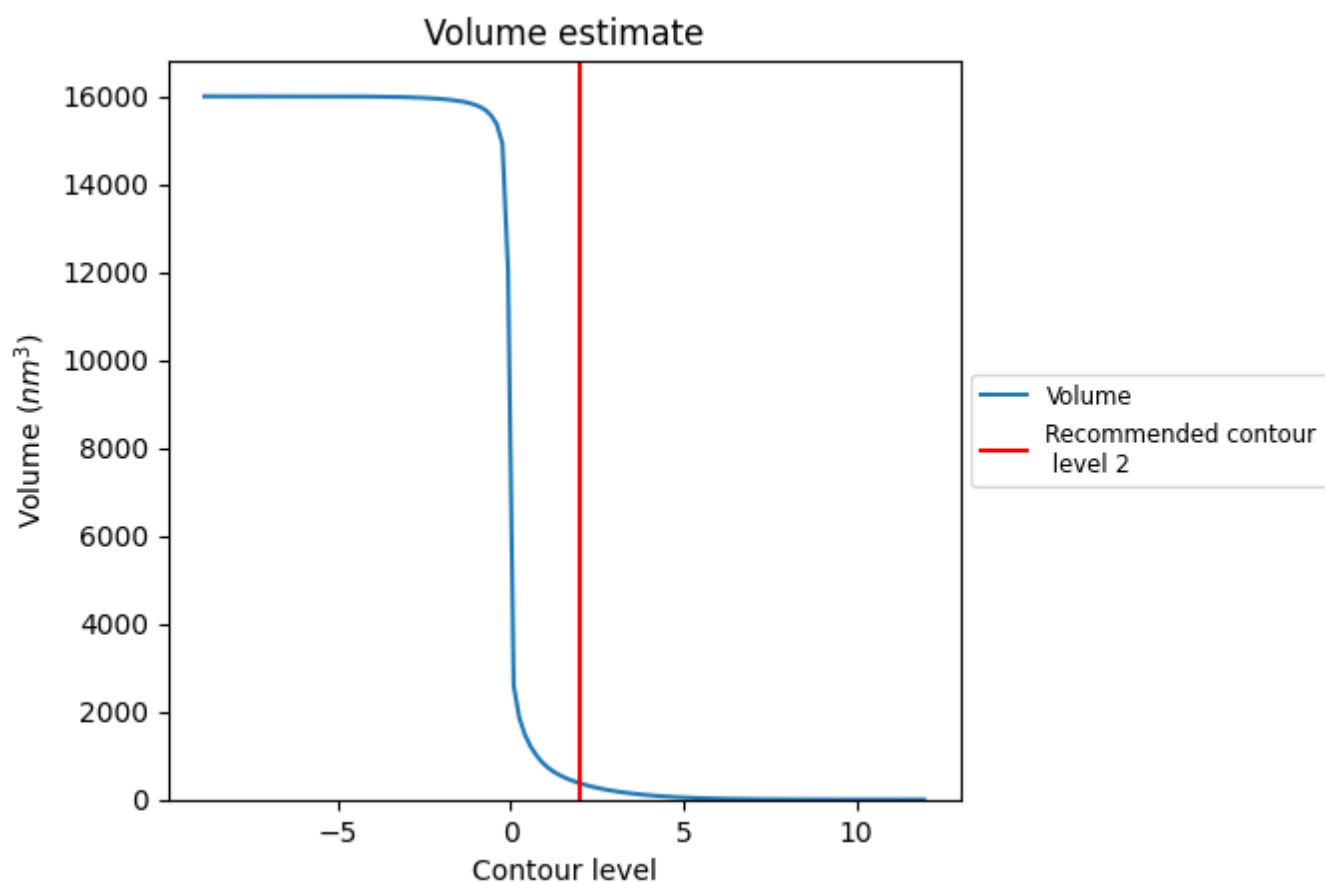
This section contains the results of statistical analysis of the map.

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.

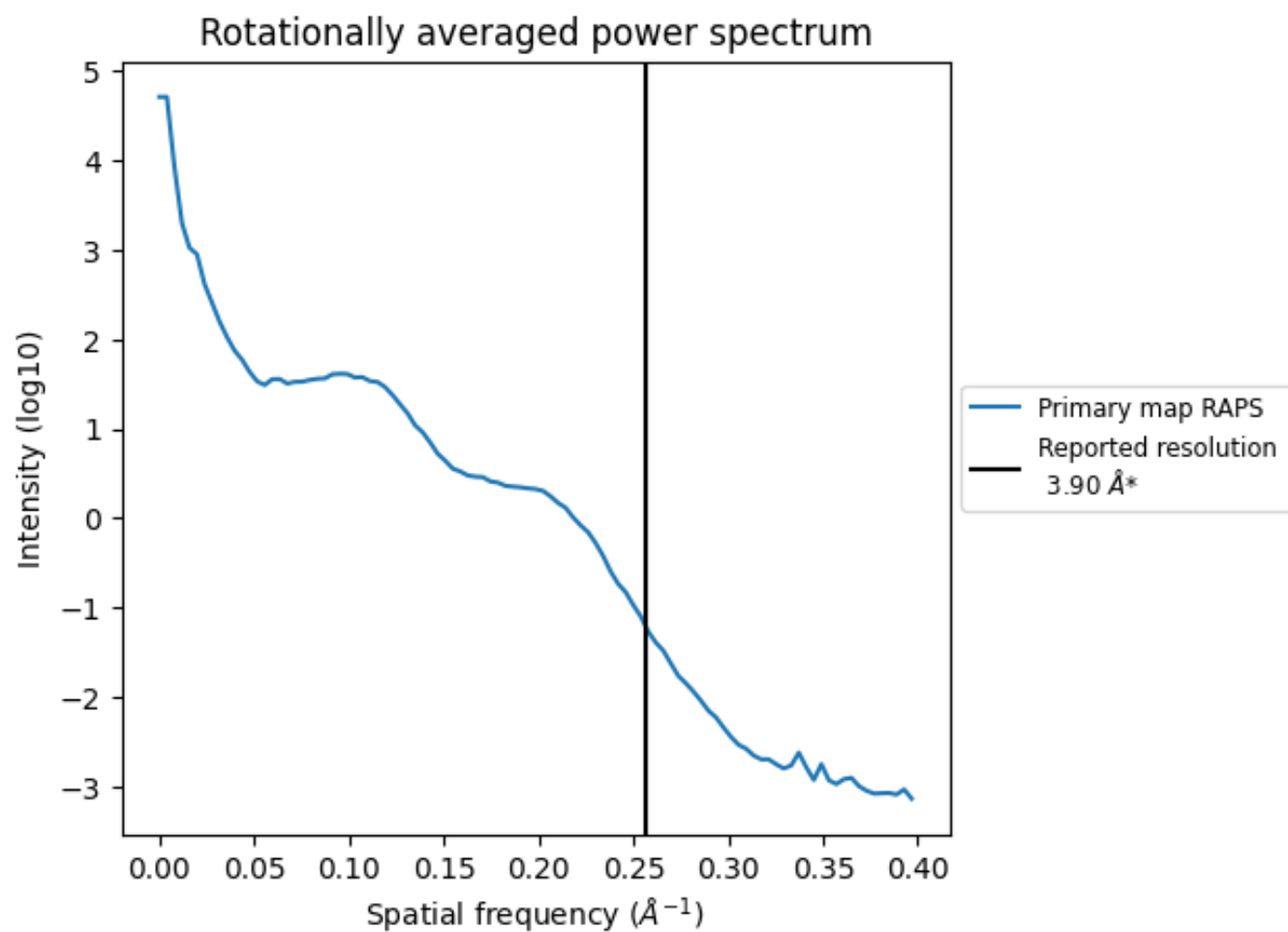
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 372 nm³; this corresponds to an approximate mass of 336 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 0.256 Å⁻¹

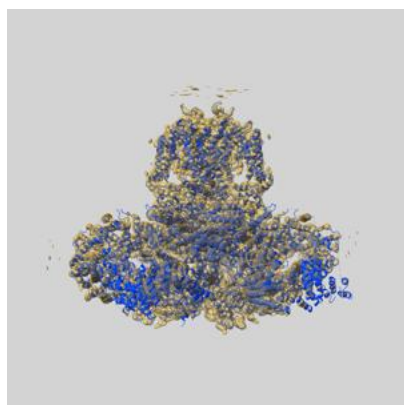
8 Fourier-Shell correlation

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

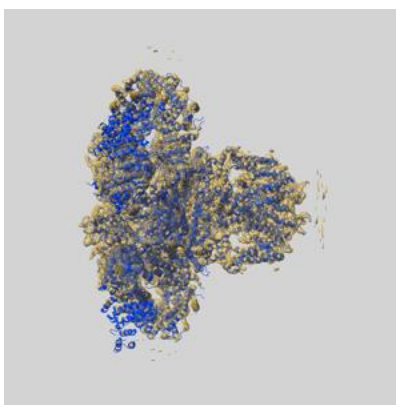
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-9244 and PDB model 6MU2. Per-residue inclusion information can be found in [section 3](#) on [page 4](#).

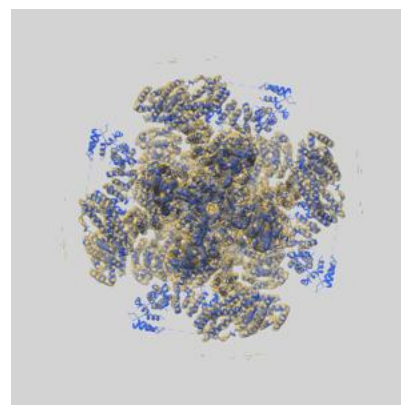
9.1 Map-model overlay [i](#)



X



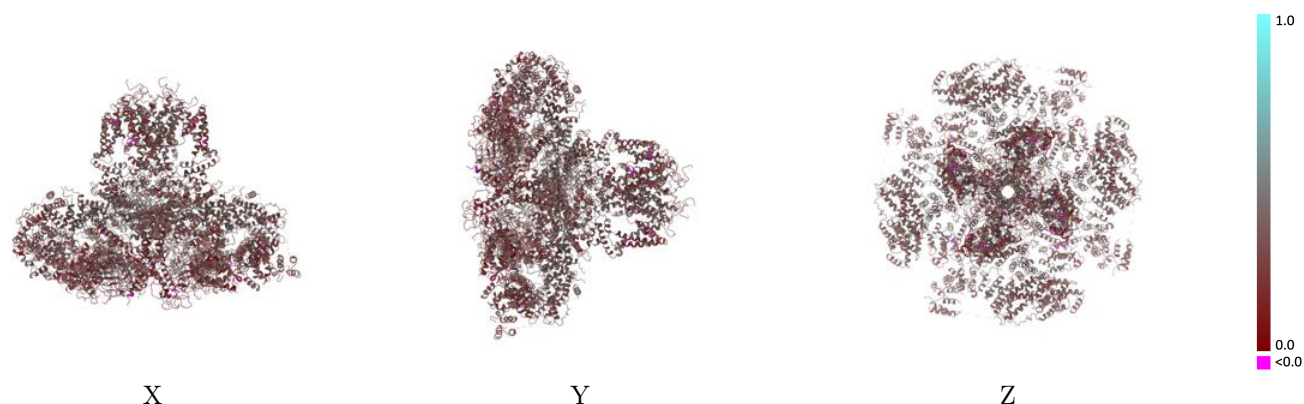
Y



Z

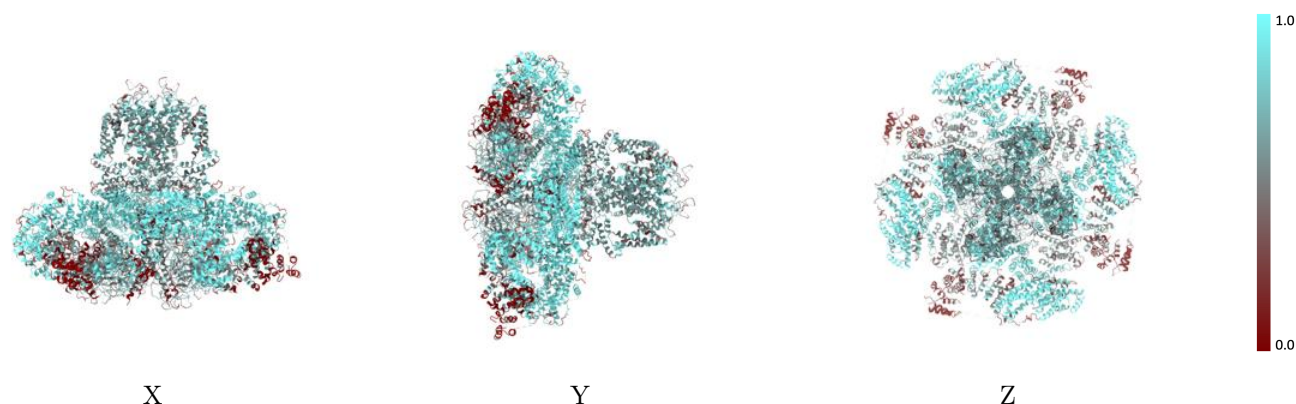
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



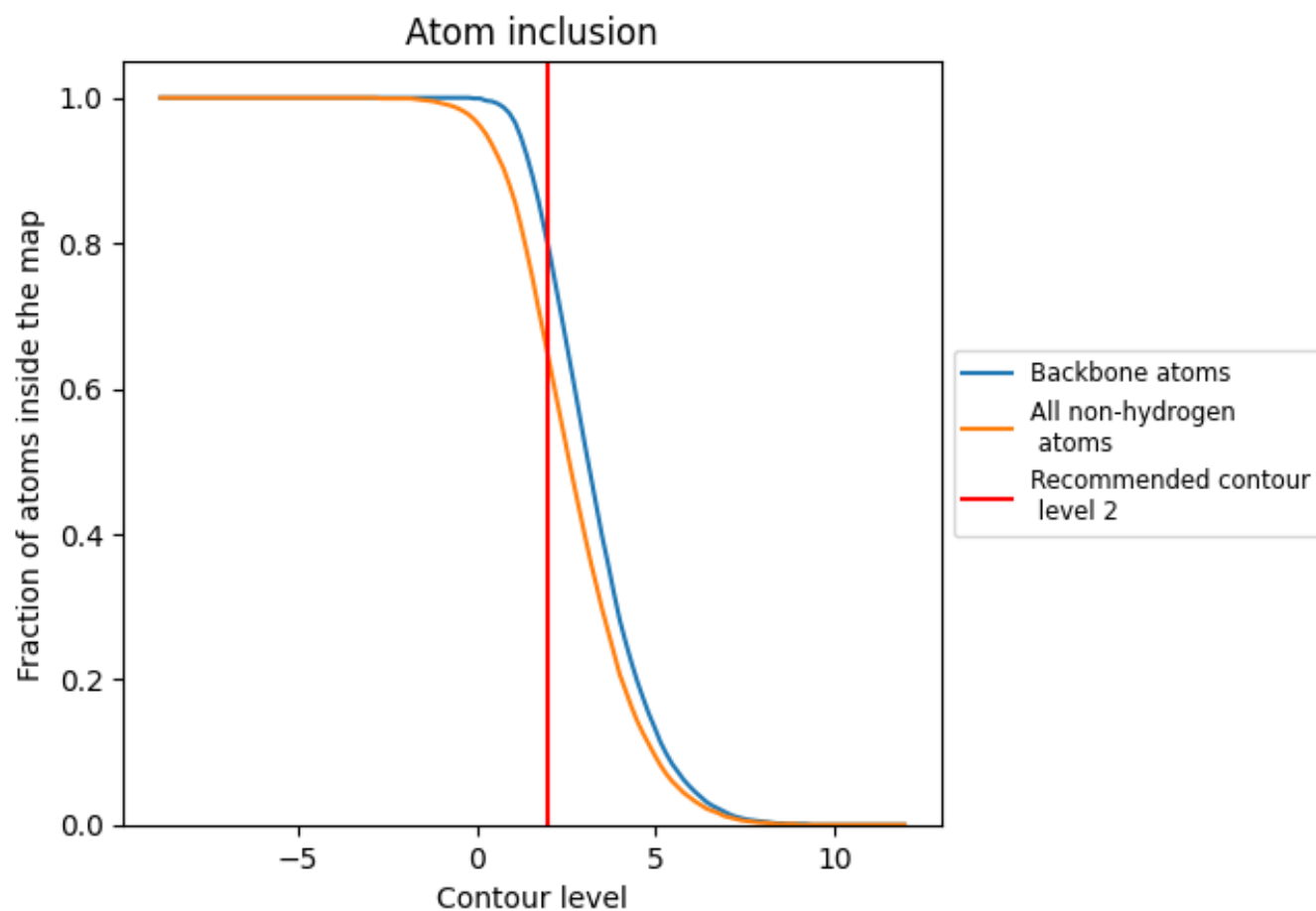
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (2).

9.4 Atom inclusion [i](#)



At the recommended contour level, 80% of all backbone atoms, 64% 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 (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6440	0.3100
A	0.6440	0.3100
B	0.6450	0.3100
C	0.6430	0.3100
D	0.6420	0.3080

