



Full wwPDB X-ray Structure Validation Report i

May 26, 2025 – 05:04 AM EDT

PDB ID : 2QZP / pdb_00002qzp
Title : Crystal structure of mutation of an acylptide hydrolase/esterase from Aeropyrum pernix K1
Authors : Zhang, H.F.; Zheng, B.S.; Rao, Z.
Deposited on : 2007-08-17
Resolution : 2.70 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>
with specific help available everywhere you see the i 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](#) i) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0rc1
Xtriage (Phenix)	:	2.0rc1
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.006 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.43.1

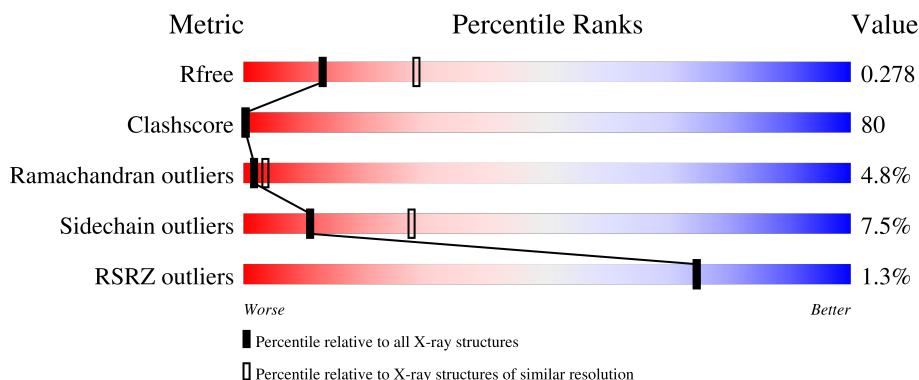
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

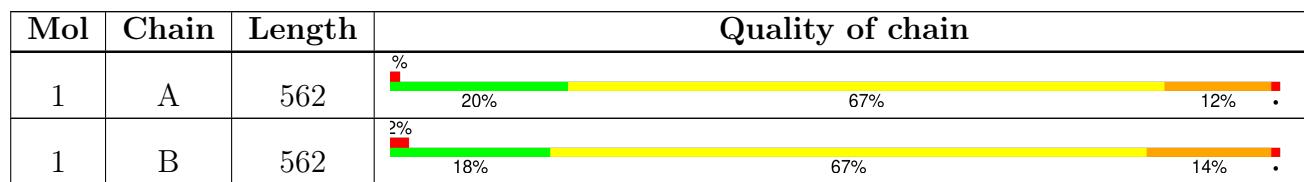
The reported resolution of this entry is 2.70 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	3333 (2.70-2.70)
Clashscore	180529	3684 (2.70-2.70)
Ramachandran outliers	177936	3633 (2.70-2.70)
Sidechain outliers	177891	3633 (2.70-2.70)
RSRZ outliers	164620	3333 (2.70-2.70)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.



2 Entry composition [\(i\)](#)

There are 2 unique types of molecules in this entry. The entry contains 8881 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Acylamino-acid-releasing enzyme.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	560	Total	C	N	O	S	0	0	0
			4255	2685	750	808	12			

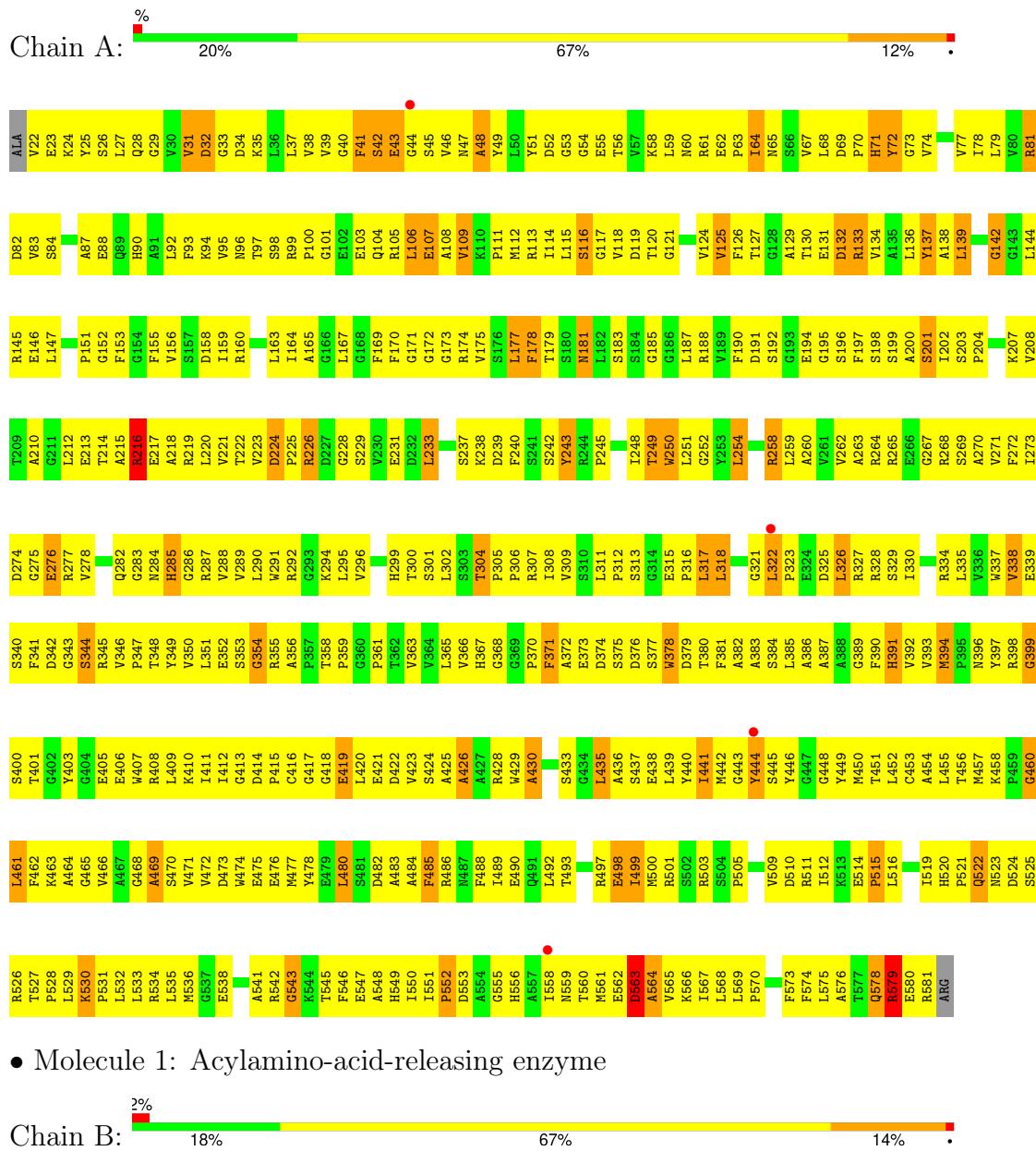
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	154	Total	O	0	0
			154	154		
2	B	212	Total	O	0	0
			212	212		

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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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: Acylamino-acid-releasing enzyme



	A21	S84	K85	S26
		E39	A147	L27
R338	G39	V277	A148	Q28
	S40	S340	R149	A87
	T401	F341	L150	Q30
K462	K463	D342	R219	Q39
	A464	Y463	L220	C29
G465	G466	G343	P281	V30
	E466	S344	Q282	V221
T527	T528	E465	G283	A91
	P528	E467	V346	V31
L529	G468	W467	H285	D32
K530	A469	R468	T348	D33
P531	S470	L469	Y349	R153
L532	V471	K410	V350	F154
	V472	I411	L351	L92
L533	D473	E474	E352	V155
	L534	W474	S353	P93
M535	M536	D475	W291	V33
	G537	E476	G344	V39
E538	M477	C416	R355	E148
	K544	G417	G294	S44
F545	A484	S423	V288	V104
	F485	A424	L295	E43
T546	A425	V344	V289	G44
	E547	R426	E352	V33
A541	L480	P359	S296	L106
R542	S481	E421	V296	S45
G543	D432	D422	G299	P100
	K544	A483	P361	V39
	E538	M477	T362	E162
	L539	V478	S301	G41
L540	E479	E419	K294	F44
	A541	L420	V358	V102
M542	G543	D422	V299	V46
	K544	A483	T362	N47
	E538	M477	S301	A48
	L539	V478	K294	V109
L540	E479	E419	V233	K110
	A541	L420	V358	V104
M542	G543	D422	V299	L50
	K544	A483	T362	P111
	E538	M477	S301	M112
	L539	V478	K294	V111
L540	E479	E419	V233	Y51
	A541	L420	V358	V112
M542	G543	D422	V299	R113
	K544	A483	T362	D52
	E538	M477	S301	F178
	L539	V478	K294	F178
L540	E479	E419	V233	L115
	A541	L420	V358	S116
M542	G543	D422	V299	E56
	K544	A483	T362	T56
	E538	M477	S301	V117
	L539	V478	K294	V57
L540	E479	E419	V233	D69
	A541	L420	V358	V118
M542	G543	D422	V299	D69
	K544	A483	T362	V119
	E538	M477	S301	M58
	L539	V478	K294	L59
L540	E479	E419	V233	N60
	A541	L420	V358	C121
M542	G543	D422	V299	R61
	K544	A483	T362	E122
	E538	M477	S301	A123
	L539	V478	K294	E62
L540	E479	E419	V233	P63
	A541	L420	V358	V124
M542	G543	D422	V299	V124
	K544	A483	T362	V125
	E538	M477	S301	G185
	L539	V478	K294	T120
L540	E479	E419	V233	G186
	A541	L420	V358	T120
M542	G543	D422	V299	R61
	K544	A483	T362	E122
	E538	M477	S301	A123
	L539	V478	K294	E62
L540	E479	E419	V233	P63
	A541	L420	V358	V124
M542	G543	D422	V299	V124
	K544	A483	T362	V125
	E538	M477	S301	G195
	L539	V478	K294	T127
L540	E479	E419	V233	G196
	A541	L420	V358	T127
M542	G543	D422	V299	G197
	K544	A483	T362	V67
	E538	M477	S301	L68
	L539	V478	K294	T130
L540	E479	E419	V233	E131
	A541	L420	V358	D69
M542	G543	D422	V299	R76
	K544	A483	T362	H71
	E538	M477	S301	R133
	L539	V478	K294	Y72
L540	E479	E419	V233	A135
	A541	L420	V358	G73
M542	G543	D422	V299	V74
	K544	A483	T362	L136
	E538	M477	S301	G205
	L539	V478	K294	Y137
L540	E479	E419	V233	G75
	A541	L420	V358	R76
M542	G543	D422	V299	H206
	K544	A483	T362	S201
	E538	M477	S301	S202
	L539	V478	K294	R266
L540	E479	E419	V233	R266
	A541	L420	V358	S203
M542	G543	D422	V299	S204
	K544	A483	T362	P204
	E538	M477	S301	G205
	L539	V478	K294	Y137
L540	E479	E419	V233	G75
	A541	L420	V358	R76
M542	G543	D422	V299	H206
	K544	A483	T362	S201
	E538	M477	S301	S202
	L539	V478	K294	R266
L540	E479	E419	V233	R266
	A541	L420	V358	S203
M542	G543	D422	V299	S204
	K544	A483	T362	P204
	E538	M477	S301	G205
	L539	V478	K294	Y137
L540	E479	E419	V233	G75
	A541	L420	V358	R76
M542	G543	D422	V299	H206
	K544	A483	T362	S201
	E538	M477	S301	S202
	L539	V478	K294	R266
L540	E479	E419	V233	R266
	A541	L420	V358	S203
M542	G543	D422	V299	S204
	K544	A483	T362	P204
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	L539	V478	K294	Y137
L540	E479	E419	V233	G75
	A541	L420	V358	R76
M542	G543	D422	V299	H206
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	L539	V478	K294	R266
L540	E479	E419	V233	R266
	A541	L420	V358	S203
M542	G543	D422	V299	S204
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	E538	M477	S301	S202
	L539	V478	K294	R266
L540	E479	E419	V233	R266
	A541	L420	V358	S203
M542	G543	D422	V299	S204
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	E538	M477	S301	G205
	L539	V478	K294	Y137
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	A541	L420	V358	R76
M542	G543	D422	V299	H206
	K544	A483	T362	S201
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	L539	V478	K294	R266
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	A541	L420	V358	S203
M542	G543	D422	V299	S204
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	A541	L420	V358	R76
M542	G543	D422	V299	H206
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	E538	M477	S301	S202
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	L539	V478	K294	Y137
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	A541	L420	V358	R76
M542	G543	D422	V299	H206
	K544	A483	T362	S201
	E538	M477	S301	S202
	L539	V478	K294	R266
L540	E479	E419	V233	R266
	A541	L420	V358	S203
M542	G543	D422	V299	S204
	K544	A483	T362	P204
	E538	M477	S301	G205
	L539	V478	K294	Y137
L540	E479	E419	V233	G75
	A541	L420	V358	R76
M542	G543	D422	V299	H206
	K544	A483	T362	S201
	E538	M477	S301	S202
	L539	V478	K294	R266
L540	E479	E419	V233	R266
	A541	L420	V358	S203
M542	G543	D422	V299	S204
	K544	A483	T362	P204
	E538	M477	S301	G205
	L539	V478	K294	Y137
L540	E479	E419	V233	G75
	A541	L420	V358	R76
M542	G543	D422	V299	H206
	K544	A483	T362	S201
	E538	M477	S301	S202
	L539	V478	K294	R266
L540	E479	E419	V233	R266
	A541	L420	V358	S203
M542	G543	D422	V299	S204
	K544	A483	T362	P204
	E538	M477	S301	G205
	L539	V478	K294	Y137
L540	E479	E419	V233	G75
	A541	L420	V358	R76
M542	G543	D422	V299	H206
	K544	A483	T362	S201
	E538	M477	S301	S202
	L539	V478	K294	R266
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	A541	L420	V358	S203
M542	G543	D422	V299	S204
	K544	A483	T362	P204
	E538	M477	S301	G205
	L539	V478	K294	Y137
L540	E479	E419	V233	G75
	A541	L420	V358	R76
M542	G543	D422	V299	H206
	K544	A483	T362	S201
	E538	M477	S301	S202
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	A541	L420	V358	S203
M542	G543	D422	V299	S204
	K544	A483	T362	P204
	E538	M477	S301	G205
	L539	V478	K294	Y137
L540	E479	E419	V233	G75
	A541	L420	V358	R76
M542	G543	D422	V299	H206
	K544	A483	T362	S201
	E538	M477	S301	S202
	L539	V478	K294	R266
L540	E479	E419	V233	R266
	A541	L420	V358	S203
M54				

4 Data and refinement statistics i

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	63.12 Å 102.18 Å 163.59 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.11 – 2.70 48.11 – 2.70	Depositor EDS
% Data completeness (in resolution range)	92.0 (48.11-2.70) 92.0 (48.11-2.70)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ ¹	1.58 (at 2.51 Å)	Xtriage
Refinement program	CNS	Depositor
R , R_{free}	0.226 , 0.277 0.226 , 0.278	Depositor DCC
R_{free} test set	1393 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	32.5	Xtriage
Anisotropy	0.373	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 87.8	EDS
L-test for twinning ²	$< L > = 0.38$, $< L^2 > = 0.20$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	8881	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.55% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

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	0.58	0/4346	1.15	37/5892 (0.6%)
1	B	0.56	0/4351	1.17	57/5899 (1.0%)
All	All	0.57	0/8697	1.16	94/11791 (0.8%)

There are no bond length outliers.

All (94) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	437	SER	N-CA-C	-11.39	97.78	112.93
1	A	564	ALA	N-CA-C	-9.88	99.35	111.40
1	B	327	ARG	N-CA-C	-9.43	101.20	112.89
1	A	399	GLY	N-CA-C	-9.41	103.28	114.48
1	B	564	ALA	N-CA-C	-8.76	101.56	113.30
1	A	304	THR	CA-C-N	8.44	125.73	119.66
1	A	304	THR	C-N-CA	8.44	125.73	119.66
1	B	477	MET	N-CA-C	-7.95	102.55	111.14
1	B	374	ASP	N-CA-C	-7.81	97.33	109.76
1	B	243	TYR	N-CA-C	-7.73	103.95	113.15
1	A	391	HIS	N-CA-C	-7.50	100.63	110.53
1	B	57	VAL	N-CA-C	7.37	118.73	108.12
1	B	486	ARG	N-CA-C	-7.35	103.20	111.07
1	B	490	GLU	N-CA-C	-7.33	103.29	111.28
1	B	326	LEU	N-CA-C	-7.32	103.82	112.89
1	B	69	ASP	CA-C-N	7.20	127.77	119.99
1	B	69	ASP	C-N-CA	7.20	127.77	119.99
1	A	317	LEU	N-CA-C	-7.12	102.55	112.45
1	B	392	VAL	N-CA-C	7.03	118.17	107.77
1	B	317	LEU	N-CA-C	-6.78	102.27	112.04
1	A	338	VAL	N-CA-C	6.63	118.23	109.21
1	B	91	ALA	N-CA-C	-6.62	99.88	110.14
1	B	414	ASP	CA-C-N	-6.60	112.97	119.90
1	B	414	ASP	C-N-CA	-6.60	112.97	119.90
1	B	504	SER	CA-C-N	6.51	127.98	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	504	SER	C-N-CA	6.51	127.98	119.84
1	A	243	TYR	N-CA-C	-6.51	104.22	111.71
1	B	244	ARG	CA-C-N	6.38	126.33	119.76
1	B	244	ARG	C-N-CA	6.38	126.33	119.76
1	B	394	MET	CA-C-N	6.32	126.65	119.83
1	B	394	MET	C-N-CA	6.32	126.65	119.83
1	B	458	LYS	CA-C-N	6.31	126.68	119.93
1	B	458	LYS	C-N-CA	6.31	126.68	119.93
1	B	209	THR	N-CA-C	-6.29	101.10	110.23
1	B	133	ARG	N-CA-C	6.28	118.07	108.52
1	B	315	GLU	CA-C-N	6.28	126.65	119.93
1	B	315	GLU	C-N-CA	6.28	126.65	119.93
1	B	309	VAL	N-CA-C	6.25	117.72	108.65
1	B	162	ASP	N-CA-C	-6.24	106.30	114.04
1	A	327	ARG	N-CA-C	-6.22	105.85	113.50
1	A	132	ASP	N-CA-C	6.18	120.08	112.54
1	B	382	ALA	N-CA-C	-6.07	104.36	110.97
1	A	133	ARG	N-CA-C	6.04	117.67	108.07
1	B	446	TYR	N-CA-C	-6.01	105.66	112.87
1	A	437	SER	N-CA-C	-5.98	105.81	113.23
1	A	485	PHE	N-CA-C	5.90	118.67	111.82
1	A	499	ILE	N-CA-C	-5.89	106.74	111.81
1	A	469	ALA	N-CA-C	-5.89	104.13	111.90
1	A	394	MET	CA-C-N	5.87	126.37	120.14
1	A	394	MET	C-N-CA	5.87	126.37	120.14
1	B	90	HIS	N-CA-C	5.87	119.65	110.32
1	B	155	PHE	N-CA-C	5.83	117.90	108.34
1	A	224	ASP	CA-C-N	5.81	125.94	119.32
1	A	224	ASP	C-N-CA	5.81	125.94	119.32
1	B	229	SER	N-CA-C	-5.76	102.77	110.55
1	B	224	ASP	CA-C-N	5.74	127.02	119.84
1	B	224	ASP	C-N-CA	5.74	127.02	119.84
1	B	426	ALA	N-CA-C	-5.73	105.96	113.12
1	A	448	GLY	N-CA-C	-5.65	105.54	112.77
1	B	215	ALA	N-CA-C	5.59	118.10	111.33
1	A	426	ALA	N-CA-C	-5.59	104.81	111.69
1	B	526	ARG	N-CA-C	-5.53	104.65	111.40
1	B	355	ARG	N-CA-C	-5.51	106.33	113.16
1	A	41	PHE	N-CA-C	-5.50	105.77	113.37
1	B	360	GLY	CA-C-N	5.47	126.68	119.84
1	B	360	GLY	C-N-CA	5.47	126.68	119.84
1	B	433	SER	N-CA-C	-5.47	106.52	114.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	48	ALA	N-CA-C	-5.43	102.84	110.50
1	A	226	ARG	N-CA-C	5.42	117.27	111.36
1	B	338	VAL	N-CA-C	5.38	116.53	109.21
1	A	242	SER	N-CA-C	-5.37	108.50	114.62
1	B	491	GLN	N-CA-C	5.36	117.20	111.36
1	A	326	LEU	N-CA-C	-5.34	106.72	113.18
1	A	155	PHE	N-CA-C	5.29	118.08	109.24
1	B	497	ARG	N-CA-C	5.27	118.04	111.24
1	B	567	ILE	N-CA-C	-5.27	107.69	112.96
1	B	134	VAL	N-CA-C	-5.26	100.87	108.87
1	A	378	TRP	N-CA-C	5.26	117.32	109.59
1	A	254	LEU	N-CA-C	-5.24	104.03	110.31
1	B	436	ALA	N-CA-C	5.20	117.72	109.24
1	A	107	GLU	N-CA-C	5.19	118.71	112.38
1	A	530	LYS	CA-C-N	5.19	124.81	119.56
1	A	530	LYS	C-N-CA	5.19	124.81	119.56
1	B	29	GLY	N-CA-C	5.19	117.60	111.63
1	B	421	GLU	N-CA-C	-5.18	105.07	111.40
1	B	506	ILE	N-CA-C	-5.17	106.52	112.98
1	B	62	GLU	N-CA-C	-5.13	102.81	110.20
1	A	258	ARG	N-CA-C	5.13	117.92	109.76
1	B	148	ALA	N-CA-C	5.11	116.29	108.42
1	A	282	GLN	N-CA-C	5.10	117.95	110.30
1	A	137	TYR	N-CA-C	5.09	118.36	110.17
1	A	578	GLN	N-CA-C	-5.06	105.41	111.03
1	B	173	GLY	N-CA-C	-5.04	108.37	115.32
1	A	125	VAL	N-CA-C	-5.01	101.44	109.20

There are no chirality outliers.

There are no planarity outliers.

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	4255	0	4219	659	0
1	B	4260	0	4224	724	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	154	0	0	96	0
2	B	212	0	0	138	0
All	All	8881	0	8443	1365	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 80.

All (1365) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:497:ARG:HH11	1:B:497:ARG:HB2	0.94	1.11
1:A:552:PRO:HD3	1:B:547:GLU:HB2	1.30	1.11
1:A:346:VAL:HG21	1:A:422:ASP:HB3	1.32	1.09
1:B:334:ARG:HH21	1:B:350:VAL:HG11	1.03	1.09
1:A:547:GLU:HB3	1:B:552:PRO:HD3	1.18	1.07
1:B:92:LEU:HD12	1:B:109:VAL:HG21	1.34	1.03
1:B:90:HIS:HB2	1:B:114:ILE:HD13	1.42	1.00
1:A:530:LYS:HB3	1:A:531:PRO:HD3	1.41	1.00
1:B:376:ASP:HA	2:B:791:HOH:O	1.60	1.00
1:B:323:PRO:HB2	1:B:326:LEU:HB2	1.42	0.99
1:B:497:ARG:HB2	1:B:497:ARG:NH1	1.79	0.98
1:B:347:PRO:O	1:B:396:ASN:HB2	1.63	0.98
1:B:212:LEU:HD23	1:B:219:ARG:HH12	1.26	0.96
1:B:201:SER:HB3	2:B:767:HOH:O	1.65	0.96
1:A:558:ILE:HD12	1:A:563:ASP:HB3	1.45	0.95
1:B:322:LEU:HD12	1:B:323:PRO:HD2	1.49	0.94
1:B:567:ILE:HD12	1:B:568:LEU:N	1.82	0.94
1:B:497:ARG:HH11	1:B:497:ARG:CB	1.81	0.93
1:A:522:GLN:HA	1:A:529:LEU:HD22	1.45	0.93
1:A:471:VAL:HG12	2:A:657:HOH:O	1.68	0.92
1:A:558:ILE:HG23	1:A:563:ASP:HB2	1.51	0.92
1:B:212:LEU:HD23	1:B:219:ARG:NH1	1.85	0.91
1:A:529:LEU:HD11	1:A:550:ILE:HD12	1.51	0.90
1:B:530:LYS:HB3	1:B:531:PRO:HD3	1.51	0.90
1:B:42:SER:HA	1:B:561:MET:SD	2.12	0.90
1:B:88:GLU:HG2	1:B:113:ARG:NH1	1.85	0.90
1:B:363:VAL:HG22	1:B:440:TYR:HB2	1.52	0.89
1:A:449:TYR:HA	2:A:709:HOH:O	1.71	0.88
1:A:69:ASP:HB2	1:A:118:VAL:HG22	1.56	0.88
1:A:68:LEU:HD12	1:A:78:ILE:HG21	1.52	0.88
1:B:325:ASP:HA	1:B:328:ARG:HB2	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:ASN:HD21	1:A:82:ASP:HB2	1.37	0.88
1:A:547:GLU:CB	1:B:552:PRO:HD3	2.03	0.88
1:B:334:ARG:NH2	1:B:350:VAL:HG11	1.87	0.88
1:B:509:VAL:HA	1:B:512:ILE:HD13	1.56	0.87
1:A:574:PHE:HA	2:A:602:HOH:O	1.74	0.87
1:A:127:THR:HB	2:A:677:HOH:O	1.73	0.87
1:B:208:VAL:HB	1:B:223:VAL:HB	1.56	0.87
1:B:528:PRO:HG3	2:B:756:HOH:O	1.75	0.86
1:B:284:ASN:HD22	1:B:376:ASP:C	1.83	0.86
1:A:545:THR:HB	2:A:613:HOH:O	1.73	0.86
1:A:457:MET:HB2	2:A:696:HOH:O	1.75	0.86
1:B:49:TYR:HA	1:B:57:VAL:O	1.74	0.86
1:B:505:PRO:HG2	2:B:731:HOH:O	1.76	0.86
1:B:520:HIS:HD2	1:B:521:PRO:HD2	1.40	0.86
1:B:539:LEU:HB2	2:B:678:HOH:O	1.75	0.86
1:A:515:PRO:HA	2:A:613:HOH:O	1.76	0.85
1:B:303:SER:O	1:B:304:THR:HG23	1.74	0.85
1:B:26:SER:HB3	1:B:39:VAL:HB	1.58	0.85
1:B:374:ASP:CG	1:B:394:MET:HB3	2.01	0.85
1:A:442:MET:HE3	1:A:444:TYR:HE1	1.40	0.85
1:A:569:LEU:HB3	1:A:570:PRO:HD3	1.57	0.85
1:A:412:ILE:HB	2:A:721:HOH:O	1.77	0.84
1:B:127:THR:HG23	1:B:156:VAL:HG23	1.59	0.84
1:B:278:VAL:HG11	1:B:295:LEU:HD12	1.56	0.84
1:A:215:ALA:HB1	1:A:406:GLU:HB2	1.57	0.84
1:A:558:ILE:HG22	1:A:560:THR:O	1.78	0.84
1:A:547:GLU:HB3	1:B:552:PRO:CD	2.07	0.84
1:A:273:ILE:O	1:A:276:GLU:HB2	1.77	0.83
1:B:561:MET:HA	2:B:589:HOH:O	1.76	0.83
1:B:338:VAL:HG11	1:B:425:ALA:O	1.78	0.83
1:B:484:ALA:HB3	2:B:604:HOH:O	1.79	0.83
1:A:194:GLU:HB2	1:A:212:LEU:HD21	1.60	0.83
1:A:548:ALA:HB3	1:B:550:ILE:HD13	1.58	0.83
1:B:463:LYS:HB2	2:B:658:HOH:O	1.77	0.82
1:B:458:LYS:HE3	2:B:778:HOH:O	1.79	0.82
1:A:116:SER:N	2:A:677:HOH:O	2.13	0.82
1:A:452:LEU:HD22	2:A:709:HOH:O	1.78	0.82
1:A:532:LEU:HD13	1:A:532:LEU:O	1.79	0.82
1:B:70:PRO:HB2	1:B:74:VAL:HG21	1.61	0.82
1:A:94:LYS:O	1:A:94:LYS:HG3	1.79	0.82
1:B:420:LEU:HD21	1:B:458:LYS:HD3	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:302:LEU:HG	2:B:600:HOH:O	1.79	0.81
1:A:177:LEU:HD21	1:A:208:VAL:HG11	1.62	0.81
1:A:138:ALA:HB2	1:A:147:LEU:HD21	1.63	0.81
1:A:458:LYS:HD3	1:A:461:LEU:HD13	1.63	0.80
1:B:102:GLU:HA	2:B:621:HOH:O	1.79	0.80
1:A:322:LEU:HD23	1:A:323:PRO:HD2	1.63	0.80
1:A:23:GLU:HA	2:A:730:HOH:O	1.80	0.80
1:B:158:ASP:O	1:B:159:ILE:HD13	1.80	0.80
1:B:406:GLU:HG2	1:B:410:LYS:HE2	1.64	0.80
1:A:545:THR:HG23	1:B:553:ASP:OD1	1.80	0.80
1:B:570:PRO:HD2	2:B:594:HOH:O	1.82	0.79
1:B:44:GLY:O	1:B:560:THR:HG22	1.83	0.79
1:B:78:ILE:HD13	1:B:124:VAL:HG13	1.63	0.79
1:A:38:VAL:HG12	1:A:39:VAL:N	1.97	0.79
1:B:281:PRO:O	1:B:285:HIS:HE1	1.66	0.78
1:A:238:LYS:HG2	2:A:614:HOH:O	1.84	0.78
1:B:376:ASP:HB2	2:B:616:HOH:O	1.82	0.78
1:A:558:ILE:HG23	1:A:563:ASP:CB	2.14	0.78
1:A:32:ASP:HB2	1:A:35:LYS:HB2	1.64	0.78
1:A:44:GLY:HA2	1:A:561:MET:H	1.49	0.78
1:B:353:SER:HB3	1:B:356:ALA:HB3	1.66	0.78
1:A:406:GLU:O	1:A:410:LYS:HG3	1.85	0.77
1:A:469:ALA:O	1:A:527:THR:HG21	1.84	0.77
1:B:522:GLN:HA	1:B:529:LEU:HD22	1.64	0.77
1:B:569:LEU:HB3	1:B:570:PRO:HD3	1.66	0.77
1:B:574:PHE:HA	2:B:784:HOH:O	1.84	0.77
1:A:83:VAL:HA	2:A:717:HOH:O	1.84	0.77
1:B:406:GLU:O	1:B:410:LYS:HG3	1.85	0.77
1:A:138:ALA:CB	1:A:147:LEU:HD21	2.13	0.77
1:A:562:GLU:O	1:A:564:ALA:N	2.17	0.77
1:B:268:ARG:HA	2:B:614:HOH:O	1.83	0.77
1:B:579:ARG:C	1:B:581:ARG:H	1.91	0.77
1:A:61:ARG:NH1	1:A:101:GLY:HA3	1.99	0.77
1:A:519:ILE:HA	1:A:549:HIS:HB2	1.66	0.77
1:A:523:ASN:ND2	1:A:553:ASP:HA	1.99	0.77
1:A:417:GLY:N	1:A:419:GLU:OE2	2.18	0.77
1:B:323:PRO:HG2	1:B:326:LEU:HD12	1.67	0.77
1:B:387:ALA:HB2	2:B:643:HOH:O	1.83	0.77
1:A:334:ARG:HH21	1:A:350:VAL:HG11	1.50	0.76
1:A:90:HIS:HD2	1:A:114:ILE:H	1.32	0.76
1:A:215:ALA:N	1:A:405:GLU:HB3	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:420:LEU:HD21	2:A:696:HOH:O	1.84	0.75
1:B:567:ILE:HD11	1:B:568:LEU:HD22	1.69	0.75
1:B:520:HIS:ND1	1:B:532:LEU:HG	2.01	0.75
1:A:552:PRO:CD	1:B:547:GLU:HB2	2.14	0.75
1:A:411:ILE:HD11	1:A:446:TYR:OH	1.87	0.74
1:A:442:MET:HE3	1:A:444:TYR:CE1	2.23	0.74
1:A:194:GLU:HB3	1:A:214:THR:CG2	2.16	0.74
1:B:139:LEU:HD13	1:B:144:LEU:HB2	1.69	0.74
1:B:542:ARG:HG3	1:B:542:ARG:HH11	1.49	0.74
1:A:428:ARG:HG3	2:A:622:HOH:O	1.87	0.74
1:B:480:LEU:HB2	2:B:756:HOH:O	1.88	0.74
1:A:534:ARG:O	1:A:538:GLU:HG2	1.88	0.74
1:A:309:VAL:HA	1:A:316:PRO:HA	1.68	0.73
1:B:59:LEU:O	1:B:95:VAL:HG11	1.87	0.73
1:A:311:LEU:HG	2:A:670:HOH:O	1.87	0.73
1:B:239:ASP:HB2	1:B:275:GLY:O	1.87	0.73
1:B:565:VAL:C	1:B:567:ILE:H	1.93	0.73
1:A:136:LEU:HD21	1:A:164:ILE:HG21	1.70	0.73
1:A:526:ARG:HH11	1:A:556:HIS:HD2	1.34	0.73
1:B:265:ARG:HB3	2:B:696:HOH:O	1.87	0.73
1:A:194:GLU:HB3	1:A:214:THR:HG21	1.70	0.73
1:A:163:LEU:C	1:A:164:ILE:HD12	2.13	0.73
1:B:428:ARG:HG2	2:B:592:HOH:O	1.88	0.73
1:B:445:SER:H	1:B:469:ALA:HB3	1.54	0.73
1:A:529:LEU:HD23	1:B:540:LEU:HD13	1.70	0.72
1:A:65:ASN:ND2	1:A:82:ASP:HB2	2.04	0.72
1:B:90:HIS:CB	1:B:114:ILE:HD13	2.20	0.72
1:B:477:MET:HG3	1:B:528:PRO:HD2	1.72	0.72
1:B:485:PHE:HA	1:B:488:PHE:HB3	1.72	0.72
1:B:503:ARG:O	1:B:505:PRO:HD3	1.89	0.72
1:B:133:ARG:HD3	1:B:149:ARG:HE	1.54	0.72
1:B:177:LEU:CD2	1:B:223:VAL:HG21	2.19	0.72
1:B:496:SER:HB3	2:B:619:HOH:O	1.89	0.72
1:A:251:LEU:HD13	1:A:259:LEU:HD11	1.71	0.71
1:B:71:HIS:O	1:B:74:VAL:HG13	1.89	0.71
1:B:519:ILE:HD13	2:B:594:HOH:O	1.90	0.71
1:A:271:VAL:HB	1:A:278:VAL:HB	1.71	0.71
1:A:419:GLU:HG3	2:A:643:HOH:O	1.90	0.71
1:B:95:VAL:HA	2:B:742:HOH:O	1.90	0.71
1:B:347:PRO:O	1:B:396:ASN:CB	2.38	0.71
1:B:573:PHE:HB2	2:B:653:HOH:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:457:MET:HE2	2:A:601:HOH:O	1.89	0.71
1:A:549:HIS:CE1	1:A:570:PRO:HB3	2.26	0.71
1:A:361:PRO:HA	1:A:438:GLU:CG	2.21	0.71
1:B:374:ASP:OD2	1:B:394:MET:HB3	1.90	0.71
1:B:381:PHE:CZ	1:B:567:ILE:HD13	2.25	0.71
1:B:417:GLY:O	1:B:421:GLU:HG2	1.89	0.71
1:A:350:VAL:O	1:A:351:LEU:HD23	1.89	0.71
1:B:364:VAL:HG22	2:B:775:HOH:O	1.91	0.71
1:B:472:VAL:HG12	1:B:506:ILE:HB	1.71	0.71
1:B:475:GLU:O	1:B:479:GLU:HG3	1.88	0.71
1:B:451:THR:CG2	1:B:467:ALA:HB2	2.21	0.71
1:B:577:THR:HB	2:B:784:HOH:O	1.89	0.71
1:B:160:ARG:HB3	1:B:202:ILE:HG21	1.74	0.70
1:A:338:VAL:O	1:A:345:ARG:HA	1.91	0.70
1:A:308:ILE:HB	1:A:318:LEU:HB2	1.73	0.70
1:B:45:SER:HA	1:B:560:THR:HA	1.72	0.70
1:A:71:HIS:O	1:A:74:VAL:HG23	1.91	0.70
1:A:363:VAL:HG12	2:A:693:HOH:O	1.92	0.70
1:A:284:ASN:ND2	1:A:377:SER:OG	2.25	0.70
1:A:309:VAL:HG12	1:A:316:PRO:HA	1.73	0.70
1:B:30:VAL:HG23	1:B:289:VAL:CG1	2.21	0.70
1:B:337:TRP:CG	1:B:345:ARG:HH21	2.09	0.70
1:B:356:ALA:HB2	1:B:389:GLY:O	1.92	0.70
1:B:362:THR:HG22	1:B:363:VAL:N	2.06	0.70
1:B:564:ALA:O	1:B:567:ILE:HD11	1.92	0.70
1:A:129:ALA:CB	1:A:134:VAL:HG22	2.21	0.70
1:B:164:ILE:HB	1:B:180:SER:HB3	1.74	0.70
1:B:373:GLU:OE2	1:B:396:ASN:HB3	1.91	0.70
1:B:331:ALA:HB3	1:B:352:GLU:HB3	1.73	0.69
1:A:335:LEU:HD12	1:A:348:THR:O	1.93	0.69
1:B:51:TYR:HE2	1:B:317:LEU:HB3	1.58	0.69
1:B:79:LEU:HD11	1:B:95:VAL:HG21	1.74	0.69
1:A:346:VAL:HG13	1:A:407:TRP:HZ2	1.58	0.69
1:A:90:HIS:HB2	1:A:114:ILE:HD13	1.75	0.69
1:A:441:ILE:HD13	1:A:442:MET:N	2.06	0.69
1:A:439:LEU:N	2:A:729:HOH:O	2.24	0.69
1:A:511:ARG:O	2:A:630:HOH:O	2.10	0.69
1:B:178:PHE:HB3	2:B:706:HOH:O	1.93	0.69
1:B:208:VAL:HG23	1:B:223:VAL:O	1.93	0.69
1:A:528:PRO:HD3	2:A:644:HOH:O	1.91	0.69
1:B:245:PRO:HA	2:B:696:HOH:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:324:GLU:O	1:B:327:ARG:HB3	1.92	0.69
1:A:130:THR:OG1	1:A:132:ASP:OD1	2.10	0.68
1:B:327:ARG:O	2:B:720:HOH:O	2.11	0.68
1:A:174:ARG:HE	1:A:409:LEU:HD11	1.59	0.68
1:B:35:LYS:HG2	1:B:52:ASP:OD1	1.93	0.68
1:A:200:ALA:HB3	2:A:639:HOH:O	1.92	0.68
1:A:214:THR:C	1:A:405:GLU:HB3	2.18	0.68
1:A:405:GLU:OE1	1:A:409:LEU:HG	1.93	0.68
1:A:164:ILE:HD13	1:A:181:ASN:C	2.18	0.68
1:A:474:TRP:HB2	1:A:500:MET:HB3	1.75	0.68
1:A:93:PHE:C	2:A:589:HOH:O	2.36	0.68
1:A:175:VAL:HG23	1:A:196:SER:HB3	1.76	0.68
1:A:525:SER:C	2:A:644:HOH:O	2.35	0.68
1:B:169:PHE:CZ	1:B:175:VAL:HG22	2.28	0.68
1:B:329:SER:HB2	1:B:387:ALA:HA	1.76	0.68
1:A:352:GLU:HA	1:A:391:HIS:ND1	2.09	0.68
1:A:361:PRO:HA	1:A:438:GLU:HG2	1.76	0.68
1:A:27:LEU:HD21	1:A:289:VAL:HG22	1.76	0.68
1:B:92:LEU:O	1:B:106:LEU:HD12	1.94	0.68
1:B:477:MET:HA	2:B:756:HOH:O	1.93	0.68
1:B:526:ARG:NH2	1:B:557:ALA:HB2	2.08	0.68
1:A:532:LEU:CD1	1:A:536:MET:HE3	2.24	0.67
1:B:218:ALA:HB1	1:B:248:ILE:HD11	1.76	0.67
1:B:526:ARG:HA	2:B:680:HOH:O	1.94	0.67
1:A:42:SER:HB2	2:A:649:HOH:O	1.94	0.67
1:B:222:THR:O	1:B:230:VAL:HG13	1.95	0.67
1:B:171:GLY:C	1:B:173:GLY:H	2.00	0.67
1:B:59:LEU:HD13	1:B:77:VAL:HG21	1.76	0.67
1:B:218:ALA:HB1	1:B:248:ILE:CD1	2.25	0.67
1:A:27:LEU:HD23	1:A:287:ARG:O	1.93	0.67
1:B:116:SER:C	2:B:596:HOH:O	2.38	0.67
1:A:368:GLY:HA2	2:A:686:HOH:O	1.95	0.67
1:B:295:LEU:O	1:B:311:LEU:HG	1.95	0.67
1:B:485:PHE:O	1:B:489:ILE:HG12	1.95	0.67
1:B:91:ALA:HB3	1:B:93:PHE:CZ	2.30	0.66
1:B:440:TYR:OH	1:B:463:LYS:HD3	1.94	0.66
1:B:221:VAL:HB	1:B:230:VAL:HG12	1.77	0.66
1:A:90:HIS:O	1:A:111:PRO:HA	1.96	0.66
1:A:386:ALA:HA	1:A:390:PHE:O	1.95	0.66
1:B:438:GLU:HA	2:B:714:HOH:O	1.95	0.66
1:B:449:TYR:HB2	2:B:685:HOH:O	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:498:GLU:HA	1:A:501:ARG:HD2	1.77	0.66
1:B:477:MET:HE2	1:B:489:ILE:HD11	1.77	0.66
1:B:559:ASN:O	1:B:560:THR:HG23	1.95	0.66
1:A:58:LYS:O	1:A:100:PRO:HB3	1.96	0.66
1:A:81:ARG:HB2	1:A:81:ARG:HH11	1.61	0.66
1:A:419:GLU:CD	1:A:420:LEU:H	2.03	0.66
1:A:423:VAL:HA	2:A:651:HOH:O	1.95	0.66
1:A:353:SER:O	1:A:356:ALA:N	2.29	0.66
1:A:529:LEU:HD11	1:A:550:ILE:CD1	2.25	0.66
1:B:159:ILE:HD12	1:B:164:ILE:HG23	1.78	0.66
1:A:322:LEU:HD23	1:A:323:PRO:CD	2.25	0.66
1:A:548:ALA:O	1:B:549:HIS:HA	1.95	0.66
1:A:551:ILE:HG23	1:A:552:PRO:HD2	1.77	0.66
1:B:574:PHE:O	1:B:577:THR:HB	1.96	0.66
1:A:480:LEU:HD21	1:A:530:LYS:HD2	1.78	0.66
1:A:567:ILE:HG13	1:A:567:ILE:O	1.95	0.66
1:B:424:SER:HB3	1:B:428:ARG:NH1	2.11	0.66
1:A:45:SER:HB2	1:A:63:PRO:HB3	1.76	0.65
1:A:125:VAL:HA	1:A:137:TYR:O	1.96	0.65
1:A:392:VAL:HG22	2:A:720:HOH:O	1.95	0.65
1:B:153:PHE:HE1	1:B:488:PHE:HB2	1.61	0.65
1:B:284:ASN:ND2	1:B:376:ASP:C	2.54	0.65
1:A:308:ILE:O	1:A:318:LEU:N	2.23	0.65
1:B:171:GLY:O	1:B:173:GLY:N	2.30	0.65
1:A:90:HIS:N	1:A:112:MET:O	2.21	0.65
1:A:536:MET:HE1	1:A:550:ILE:HD11	1.78	0.65
1:A:555:GLY:HA3	2:A:663:HOH:O	1.96	0.65
1:B:55:GLU:C	2:B:735:HOH:O	2.38	0.65
1:B:99:ARG:HB2	1:B:102:GLU:OE2	1.96	0.65
1:B:410:LYS:HG2	2:B:695:HOH:O	1.95	0.65
1:A:302:LEU:HD13	1:A:351:LEU:HD21	1.78	0.65
1:A:562:GLU:C	1:A:564:ALA:H	2.05	0.65
1:B:523:ASN:ND2	1:B:553:ASP:HA	2.11	0.65
1:A:579:ARG:NH1	1:A:579:ARG:HB2	2.12	0.65
1:B:103:GLU:HB2	2:B:687:HOH:O	1.97	0.65
1:B:458:LYS:HB3	1:B:461:LEU:HD22	1.79	0.65
1:B:532:LEU:O	1:B:536:MET:HG3	1.97	0.65
1:B:469:ALA:HB1	1:B:556:HIS:CE1	2.31	0.65
1:A:563:ASP:HA	1:A:566:LYS:CG	2.27	0.65
1:A:63:PRO:HA	2:A:595:HOH:O	1.97	0.65
1:B:278:VAL:HG11	1:B:295:LEU:CD1	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:29:GLY:CA	1:B:289:VAL:HG21	2.28	0.64
1:B:136:LEU:O	1:B:147:LEU:N	2.31	0.64
1:A:353:SER:O	1:A:355:ARG:N	2.30	0.64
1:B:100:PRO:O	1:B:102:GLU:HG3	1.96	0.64
1:B:133:ARG:HA	1:B:483:ALA:CB	2.27	0.64
1:B:137:TYR:HA	1:B:146:GLU:HA	1.80	0.64
1:B:362:THR:CG2	1:B:363:VAL:N	2.60	0.64
1:A:88:GLU:HG3	1:A:113:ARG:HH12	1.61	0.64
1:A:223:VAL:HA	1:A:229:SER:O	1.98	0.64
1:A:263:ALA:O	1:A:269:SER:HB2	1.97	0.64
1:A:325:ASP:HA	1:A:328:ARG:HB3	1.79	0.64
1:A:337:TRP:CZ3	1:A:347:PRO:HB3	2.33	0.64
1:B:69:ASP:O	1:B:118:VAL:HG13	1.97	0.64
1:B:201:SER:N	2:B:652:HOH:O	2.30	0.64
1:A:61:ARG:HH12	1:A:101:GLY:HA3	1.62	0.64
1:A:438:GLU:HB2	2:A:729:HOH:O	1.96	0.64
1:A:526:ARG:HD2	1:A:556:HIS:CD2	2.32	0.64
1:B:181:ASN:HB2	1:B:185:GLY:O	1.97	0.64
1:A:38:VAL:CG1	1:A:39:VAL:N	2.61	0.64
1:A:272:PHE:CE2	1:A:277:ARG:HD3	2.33	0.64
1:A:415:PRO:O	1:A:503:ARG:HD2	1.98	0.64
1:B:46:VAL:HG23	2:B:764:HOH:O	1.98	0.64
1:A:172:GLY:O	1:A:409:LEU:HD22	1.98	0.64
1:B:90:HIS:HB2	1:B:114:ILE:CD1	2.23	0.64
1:B:201:SER:CB	1:B:252:GLY:HA2	2.28	0.64
1:B:251:LEU:HG	2:B:652:HOH:O	1.97	0.64
1:B:361:PRO:HG3	1:B:438:GLU:CD	2.23	0.64
1:B:411:ILE:CD1	1:B:419:GLU:HG2	2.27	0.64
1:B:421:GLU:OE2	1:B:421:GLU:HA	1.96	0.64
1:A:129:ALA:HB2	1:A:134:VAL:HG22	1.80	0.64
1:A:200:ALA:CB	2:A:639:HOH:O	2.46	0.64
1:B:361:PRO:HA	1:B:438:GLU:HG2	1.80	0.64
1:B:373:GLU:OE1	1:B:396:ASN:ND2	2.31	0.64
1:A:370:PRO:O	1:A:372:ALA:N	2.29	0.63
1:A:511:ARG:HG2	2:A:630:HOH:O	1.98	0.63
1:B:137:TYR:CD2	1:B:146:GLU:HG3	2.32	0.63
1:B:565:VAL:C	1:B:567:ILE:N	2.56	0.63
1:A:493:THR:O	1:A:499:ILE:HD12	1.97	0.63
1:B:90:HIS:HD2	1:B:114:ILE:H	1.47	0.63
1:B:92:LEU:HD12	1:B:109:VAL:CG2	2.22	0.63
1:B:180:SER:HA	2:B:750:HOH:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:GLN:HG2	2:B:620:HOH:O	1.98	0.63
1:B:428:ARG:O	1:B:431:ARG:HB2	1.98	0.63
1:B:471:VAL:HG11	1:B:474:TRP:CH2	2.33	0.63
1:A:133:ARG:HA	1:A:483:ALA:CB	2.28	0.63
1:B:61:ARG:HB2	1:B:103:GLU:CD	2.24	0.63
1:B:411:ILE:HD11	1:B:446:TYR:OH	1.99	0.63
1:B:441:ILE:HG21	2:B:615:HOH:O	1.96	0.63
1:A:62:GLU:HB2	1:A:81:ARG:HH21	1.64	0.63
1:B:186:GLY:O	1:B:187:LEU:HB2	1.98	0.63
1:B:472:VAL:CG1	1:B:506:ILE:HB	2.29	0.63
1:B:542:ARG:HG3	1:B:542:ARG:NH1	2.14	0.63
1:B:61:ARG:HB2	1:B:103:GLU:OE1	1.99	0.62
1:B:278:VAL:HG13	1:B:312:PRO:HB3	1.80	0.62
1:B:340:SER:HB3	2:B:722:HOH:O	1.98	0.62
1:A:109:VAL:HG12	2:A:594:HOH:O	1.99	0.62
1:A:475:GLU:HB3	2:A:627:HOH:O	2.00	0.62
1:A:532:LEU:HD12	1:A:536:MET:HE3	1.80	0.62
1:B:99:ARG:NH2	1:B:102:GLU:HB3	2.13	0.62
1:B:264:ARG:O	1:B:264:ARG:HG3	1.97	0.62
1:B:78:ILE:HD13	1:B:124:VAL:CG1	2.30	0.62
1:A:523:ASN:HD21	1:A:553:ASP:HA	1.61	0.62
1:B:91:ALA:HB1	1:B:105:ARG:HE	1.65	0.62
1:A:45:SER:OG	1:A:47:ASN:ND2	2.30	0.62
1:B:523:ASN:HB2	1:B:554:ALA:O	1.99	0.62
1:A:58:LYS:HE2	1:A:60:ASN:O	1.99	0.62
1:B:68:LEU:O	1:B:70:PRO:HD3	2.00	0.62
1:B:345:ARG:HD2	2:B:684:HOH:O	2.00	0.62
1:B:539:LEU:HD13	1:B:546:PHE:CG	2.34	0.62
1:A:328:ARG:HG2	1:A:328:ARG:HH11	1.64	0.62
1:B:29:GLY:HA2	1:B:289:VAL:HG21	1.82	0.62
1:B:420:LEU:CD2	1:B:458:LYS:HD3	2.29	0.62
1:A:90:HIS:HB2	1:A:114:ILE:CD1	2.30	0.62
1:B:133:ARG:NH1	1:B:146:GLU:OE2	2.32	0.62
1:A:40:GLY:C	1:A:42:SER:H	2.07	0.61
1:A:45:SER:HB2	2:A:595:HOH:O	1.99	0.61
1:A:251:LEU:HD12	1:A:252:GLY:N	2.13	0.61
1:A:283:GLY:HA2	1:A:376:ASP:OD2	2.00	0.61
1:A:470:SER:O	1:A:527:THR:HB	2.00	0.61
1:B:115:LEU:HB2	1:B:127:THR:OG1	2.00	0.61
1:A:341:PHE:CD2	1:A:421:GLU:HB3	2.35	0.61
1:A:346:VAL:HG22	1:A:407:TRP:CH2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:ILE:HG13	1:A:295:LEU:HD11	1.82	0.61
1:A:499:ILE:HD11	2:A:732:HOH:O	2.01	0.61
1:B:160:ARG:NH2	2:B:715:HOH:O	2.33	0.61
1:B:370:PRO:O	1:B:372:ALA:N	2.33	0.61
1:A:340:SER:HB2	1:A:344:SER:O	1.99	0.61
1:B:31:VAL:HG12	1:B:32:ASP:N	2.15	0.61
1:B:559:ASN:HB2	2:B:762:HOH:O	2.00	0.61
1:A:174:ARG:HH21	1:A:405:GLU:CD	2.08	0.61
1:A:342:ASP:CG	1:A:398:ARG:HH22	2.08	0.61
1:A:547:GLU:OE2	1:A:574:PHE:HB2	2.00	0.61
1:A:558:ILE:HG12	2:A:583:HOH:O	2.01	0.61
1:B:579:ARG:C	1:B:581:ARG:N	2.59	0.61
1:A:251:LEU:HD12	1:A:251:LEU:C	2.24	0.61
1:A:533:LEU:CD1	1:B:536:MET:HB3	2.30	0.61
1:B:323:PRO:CG	1:B:326:LEU:HD12	2.31	0.61
1:A:497:ARG:O	1:A:499:ILE:N	2.34	0.61
1:B:198:SER:HB3	1:B:213:GLU:CD	2.26	0.61
1:B:399:GLY:HA2	1:B:408:ARG:O	2.01	0.61
1:A:533:LEU:HD11	1:B:536:MET:HB3	1.81	0.61
1:B:45:SER:HB2	1:B:63:PRO:HB3	1.83	0.60
1:B:127:THR:HG23	1:B:156:VAL:CG2	2.29	0.60
1:B:347:PRO:HG2	1:B:396:ASN:HB2	1.83	0.60
1:B:282:GLN:HB3	2:B:700:HOH:O	1.99	0.60
1:B:567:ILE:CD1	1:B:568:LEU:HD22	2.32	0.60
1:A:264:ARG:NH2	1:A:373:GLU:OE2	2.33	0.60
1:B:26:SER:O	1:B:308:ILE:HD11	2.01	0.60
1:B:30:VAL:H	1:B:289:VAL:HG11	1.64	0.60
1:A:296:VAL:HG13	1:A:309:VAL:O	2.02	0.60
1:A:41:PHE:CE2	1:A:561:MET:HA	2.37	0.60
1:A:160:ARG:N	1:A:202:ILE:HD12	2.16	0.60
1:B:90:HIS:CD2	1:B:114:ILE:HD13	2.35	0.60
1:B:373:GLU:OE1	1:B:373:GLU:HA	1.99	0.60
1:A:178:PHE:CD1	1:A:178:PHE:C	2.80	0.60
1:A:533:LEU:HD21	1:B:536:MET:SD	2.42	0.60
1:A:41:PHE:CZ	1:A:561:MET:HA	2.35	0.60
1:A:309:VAL:HG12	1:A:316:PRO:CA	2.32	0.60
1:A:468:GLY:HA2	1:A:519:ILE:O	2.02	0.60
1:B:135:ALA:HB3	1:B:137:TYR:CZ	2.37	0.60
1:B:268:ARG:NH1	1:B:282:GLN:CD	2.60	0.60
1:B:517:ALA:HB2	1:B:574:PHE:CD1	2.37	0.60
1:B:530:LYS:HB3	1:B:531:PRO:CD	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:334:ARG:HG3	2:A:694:HOH:O	2.01	0.60
1:A:532:LEU:HD13	1:A:532:LEU:C	2.26	0.60
1:B:330:ILE:HD12	2:B:720:HOH:O	2.02	0.60
1:A:385:LEU:HD13	2:A:720:HOH:O	2.00	0.60
1:A:541:ALA:C	1:A:543:GLY:H	2.09	0.59
1:B:361:PRO:O	1:B:390:PHE:HA	2.02	0.59
1:B:325:ASP:CA	1:B:328:ARG:HB2	2.30	0.59
1:B:410:LYS:HE3	2:B:786:HOH:O	2.02	0.59
1:A:171:GLY:O	1:A:174:ARG:HB2	2.02	0.59
1:A:510:ASP:CG	1:A:542:ARG:HE	2.10	0.59
1:B:175:VAL:HB	1:B:196:SER:HB3	1.84	0.59
1:B:451:THR:HG21	1:B:466:VAL:C	2.27	0.59
1:A:55:GLU:HA	2:A:604:HOH:O	2.03	0.59
1:A:267:GLY:HA2	1:A:375:SER:HB2	1.83	0.59
1:A:356:ALA:HB2	1:A:389:GLY:O	2.01	0.59
1:B:451:THR:HG21	1:B:467:ALA:HB2	1.85	0.59
1:A:558:ILE:CG2	1:A:560:THR:O	2.51	0.59
1:B:471:VAL:HG11	1:B:474:TRP:CZ3	2.37	0.59
1:A:37:LEU:HD23	1:A:70:PRO:HG3	1.85	0.59
1:A:480:LEU:HD21	1:A:530:LYS:CD	2.32	0.59
1:A:353:SER:O	1:A:354:GLY:C	2.45	0.59
1:A:530:LYS:CB	1:A:531:PRO:HD3	2.24	0.59
1:A:109:VAL:HG12	1:A:109:VAL:O	2.02	0.59
1:A:306:PRO:HD3	1:A:378:TRP:HB3	1.83	0.59
1:A:526:ARG:HH11	1:A:556:HIS:CD2	2.18	0.59
1:B:145:ARG:HG3	2:B:748:HOH:O	2.01	0.58
1:B:171:GLY:C	1:B:173:GLY:N	2.61	0.58
1:B:302:LEU:HD13	1:B:351:LEU:CD1	2.33	0.58
1:B:46:VAL:HB	1:B:64:ILE:O	2.03	0.58
1:B:60:ASN:CG	2:B:679:HOH:O	2.46	0.58
1:B:246:THR:HG22	1:B:264:ARG:O	2.03	0.58
1:B:251:LEU:CD1	1:B:259:LEU:HD11	2.33	0.58
1:B:456:THR:CG2	1:B:512:ILE:HD11	2.32	0.58
1:B:414:ASP:HA	1:B:503:ARG:HH12	1.66	0.58
1:B:210:ALA:HA	1:B:251:LEU:HD23	1.84	0.58
1:B:307:ARG:NH2	2:B:595:HOH:O	2.33	0.58
1:A:165:ALA:CB	2:A:653:HOH:O	2.51	0.58
1:A:455:LEU:HD23	2:A:682:HOH:O	2.03	0.58
1:A:465:GLY:O	1:A:516:LEU:HA	2.04	0.58
1:A:578:GLN:O	1:A:579:ARG:C	2.46	0.58
1:B:28:GLN:HG3	1:B:67:VAL:CG2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:250:TRP:HZ3	1:B:260:ALA:HB3	1.67	0.58
1:B:324:GLU:OE2	1:B:327:ARG:NH1	2.33	0.58
1:B:390:PHE:CE1	1:B:579:ARG:NH2	2.72	0.58
1:A:177:LEU:HB3	1:A:190:PHE:HB2	1.86	0.58
1:B:178:PHE:C	1:B:178:PHE:CD1	2.81	0.58
1:B:248:ILE:HD12	1:B:248:ILE:H	1.69	0.58
1:B:27:LEU:CD1	1:B:38:VAL:HG12	2.33	0.58
1:B:52:ASP:C	1:B:54:GLY:H	2.11	0.58
1:B:528:PRO:O	1:B:532:LEU:HD23	2.03	0.58
1:A:159:ILE:HG23	1:A:163:LEU:O	2.03	0.58
1:B:92:LEU:C	1:B:106:LEU:HD12	2.29	0.58
1:A:38:VAL:CG1	1:A:39:VAL:H	2.17	0.58
1:A:160:ARG:HD3	1:A:202:ILE:HG22	1.85	0.58
1:B:133:ARG:HA	1:B:483:ALA:HB2	1.85	0.58
1:B:497:ARG:O	1:B:500:MET:N	2.37	0.58
1:A:120:THR:HB	2:A:617:HOH:O	2.04	0.57
1:A:403:TYR:HD1	2:A:618:HOH:O	1.87	0.57
1:B:60:ASN:O	1:B:101:GLY:HA2	2.05	0.57
1:B:201:SER:HB2	1:B:252:GLY:HA2	1.86	0.57
1:A:217:GLU:HG2	1:A:245:PRO:O	2.05	0.57
1:B:295:LEU:HB2	1:B:311:LEU:HB2	1.85	0.57
1:B:343:GLY:N	2:B:722:HOH:O	2.37	0.57
1:A:44:GLY:HA2	1:A:561:MET:CB	2.34	0.57
1:A:51:TYR:CZ	1:A:53:GLY:HA2	2.39	0.57
1:A:497:ARG:C	1:A:499:ILE:H	2.13	0.57
1:B:266:GLU:HG2	1:B:337:TRP:HZ2	1.69	0.57
1:B:477:MET:HB3	2:B:642:HOH:O	2.05	0.57
1:B:477:MET:CE	1:B:489:ILE:HD11	2.34	0.57
1:B:326:LEU:HA	1:B:355:ARG:HH11	1.67	0.57
1:B:493:THR:O	1:B:494:GLY:C	2.47	0.57
1:A:187:LEU:HD12	1:A:188:ARG:H	1.68	0.57
1:A:412:ILE:HD13	1:A:492:LEU:HD12	1.86	0.57
1:A:475:GLU:HA	1:A:500:MET:HE2	1.86	0.57
1:B:233:LEU:HD23	1:B:234:GLU:N	2.20	0.57
1:A:38:VAL:HG12	1:A:39:VAL:H	1.65	0.57
1:A:187:LEU:HD12	1:A:188:ARG:N	2.20	0.57
1:A:267:GLY:HA2	1:A:375:SER:CB	2.34	0.57
1:A:372:ALA:O	1:A:401:THR:N	2.34	0.57
1:B:271:VAL:O	1:B:277:ARG:HA	2.03	0.57
1:B:47:ASN:HA	2:B:679:HOH:O	2.04	0.57
1:B:198:SER:HB3	1:B:213:GLU:OE2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:551:ILE:HB	1:B:554:ALA:HB2	1.87	0.57
1:A:323:PRO:HD2	1:A:326:LEU:HD12	1.86	0.57
1:A:569:LEU:HG	1:A:573:PHE:HE2	1.70	0.57
1:B:329:SER:HB3	1:B:355:ARG:HE	1.69	0.57
1:B:464:ALA:CB	1:B:578:GLN:HG3	2.35	0.57
1:A:169:PHE:HE2	1:A:371:PHE:CD1	2.22	0.57
1:A:449:TYR:HB2	1:A:471:VAL:HG23	1.86	0.57
1:A:113:ARG:NH2	1:A:525:SER:OG	2.38	0.56
1:A:446:TYR:HB3	2:A:686:HOH:O	2.05	0.56
1:B:68:LEU:HG	1:B:78:ILE:HB	1.87	0.56
1:A:419:GLU:O	1:A:423:VAL:HG23	2.06	0.56
1:A:473:ASP:N	2:A:657:HOH:O	2.38	0.56
1:A:526:ARG:HD2	1:A:556:HIS:CG	2.40	0.56
1:B:127:THR:HA	1:B:135:ALA:O	2.06	0.56
1:B:304:THR:O	1:B:378:TRP:HB2	2.06	0.56
1:A:363:VAL:HA	1:A:440:TYR:O	2.05	0.56
1:B:420:LEU:HD22	1:B:453:CYS:SG	2.46	0.56
1:A:305:PRO:HA	1:A:378:TRP:CG	2.41	0.56
1:A:429:TRP:CD1	1:A:433:SER:HB2	2.40	0.56
1:B:240:PHE:HE1	1:B:263:ALA:HB2	1.70	0.56
1:B:361:PRO:HA	1:B:438:GLU:CG	2.34	0.56
1:B:516:LEU:HD12	1:B:517:ALA:H	1.70	0.56
1:A:341:PHE:C	1:A:343:GLY:H	2.13	0.56
1:A:519:ILE:HG12	1:A:549:HIS:CD2	2.40	0.56
1:B:99:ARG:CZ	1:B:102:GLU:HB3	2.36	0.56
1:B:455:LEU:HD22	1:B:514:GLU:HB2	1.88	0.56
1:A:393:VAL:HG11	1:A:426:ALA:HB1	1.88	0.56
1:A:441:ILE:HB	1:A:462:PHE:CD1	2.41	0.56
1:A:486:ARG:HH11	1:A:486:ARG:HG3	1.71	0.56
1:B:90:HIS:O	1:B:111:PRO:HA	2.05	0.56
1:B:517:ALA:HB2	1:B:574:PHE:CE1	2.41	0.56
1:A:305:PRO:HD3	1:A:322:LEU:HD12	1.88	0.56
1:B:139:LEU:HD12	1:B:143:GLY:C	2.31	0.56
1:B:456:THR:HG23	1:B:512:ILE:HD11	1.87	0.56
1:A:46:VAL:N	2:A:595:HOH:O	2.38	0.56
1:A:106:LEU:HA	2:A:698:HOH:O	2.04	0.56
1:A:164:ILE:O	1:A:179:THR:HA	2.06	0.56
1:A:286:GLY:O	1:A:287:ARG:C	2.48	0.56
1:A:347:PRO:HG3	1:A:403:TYR:CD2	2.41	0.56
1:A:458:LYS:O	1:A:460:GLY:N	2.39	0.56
1:B:271:VAL:O	1:B:277:ARG:HD2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:331:ALA:HB3	1:B:352:GLU:CB	2.36	0.56
1:A:550:ILE:O	1:B:547:GLU:HA	2.06	0.55
1:A:219:ARG:HG3	1:A:219:ARG:HH11	1.71	0.55
1:A:445:SER:HA	1:A:469:ALA:O	2.06	0.55
1:A:520:HIS:O	1:A:550:ILE:HA	2.06	0.55
1:B:350:VAL:HG21	1:B:429:TRP:CH2	2.41	0.55
1:B:453:CYS:HB2	2:B:731:HOH:O	2.07	0.55
1:A:92:LEU:O	1:A:106:LEU:HG	2.04	0.55
1:A:563:ASP:OD2	2:A:585:HOH:O	2.18	0.55
1:B:471:VAL:HG23	2:B:685:HOH:O	2.05	0.55
1:A:25:TYR:HB3	1:A:38:VAL:HG11	1.88	0.55
1:A:426:ALA:HB2	2:A:651:HOH:O	2.06	0.55
1:B:123:ALA:HA	1:B:139:LEU:O	2.06	0.55
1:B:326:LEU:HB3	2:B:794:HOH:O	2.05	0.55
1:B:455:LEU:CD2	1:B:514:GLU:HB2	2.37	0.55
1:A:399:GLY:O	1:A:408:ARG:HG3	2.06	0.55
1:A:478:TYR:HE1	1:A:486:ARG:O	1.90	0.55
1:A:499:ILE:HG23	1:A:503:ARG:HG3	1.89	0.55
1:B:51:TYR:CZ	1:B:53:GLY:HA2	2.42	0.55
1:B:476:GLU:HA	1:B:479:GLU:CD	2.31	0.55
1:A:379:ASP:OD1	1:A:381:PHE:N	2.38	0.55
1:A:474:TRP:CD1	1:A:500:MET:HA	2.42	0.55
1:B:59:LEU:HD22	2:B:727:HOH:O	2.07	0.55
1:B:255:PRO:O	1:B:257:GLY:N	2.39	0.55
1:B:496:SER:CB	2:B:619:HOH:O	2.52	0.55
1:A:579:ARG:HG2	1:A:580:GLU:HG3	1.88	0.55
1:B:169:PHE:CE2	1:B:175:VAL:HG22	2.40	0.55
1:B:246:THR:CG2	1:B:402:GLY:O	2.55	0.55
1:B:259:LEU:HD11	2:B:767:HOH:O	2.06	0.55
1:A:169:PHE:HE2	1:A:371:PHE:HD1	1.54	0.55
1:A:215:ALA:CB	1:A:406:GLU:HB2	2.35	0.55
1:A:418:GLY:O	1:A:421:GLU:HB2	2.07	0.55
1:A:550:ILE:HB	1:B:548:ALA:H	1.71	0.55
1:B:219:ARG:HG3	1:B:220:LEU:N	2.22	0.55
1:A:237:SER:HB3	1:A:276:GLU:N	2.21	0.55
1:B:373:GLU:HB3	2:B:739:HOH:O	2.05	0.55
1:A:173:GLY:O	1:A:408:ARG:NH1	2.38	0.55
1:A:449:TYR:HB2	1:A:471:VAL:CG2	2.36	0.55
1:A:472:VAL:HG21	1:A:535:LEU:HD13	1.88	0.55
1:A:159:ILE:HD12	1:A:164:ILE:HG13	1.89	0.54
1:A:269:SER:OG	1:A:285:HIS:CD2	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:441:ILE:HD13	1:A:441:ILE:C	2.31	0.54
1:A:563:ASP:HA	1:A:566:LYS:HB2	1.88	0.54
1:B:220:LEU:HG	1:B:240:PHE:CE2	2.43	0.54
1:B:250:TRP:CD2	1:B:287:ARG:HA	2.42	0.54
1:B:355:ARG:HG3	1:B:387:ALA:HA	1.88	0.54
1:B:406:GLU:HA	2:B:763:HOH:O	2.07	0.54
1:A:284:ASN:HB2	1:A:300:THR:HG23	1.89	0.54
1:A:519:ILE:HG22	1:A:567:ILE:HG22	1.89	0.54
1:B:90:HIS:CD2	1:B:114:ILE:H	2.25	0.54
1:B:357:PRO:O	1:B:360:GLY:HA3	2.07	0.54
1:B:359:PRO:HB3	1:B:434:GLY:O	2.07	0.54
1:B:458:LYS:O	1:B:461:LEU:HB2	2.07	0.54
1:A:322:LEU:HD22	1:A:323:PRO:O	2.07	0.54
1:B:35:LYS:HE2	1:B:52:ASP:OD2	2.07	0.54
1:B:411:ILE:HD12	1:B:419:GLU:HG2	1.87	0.54
1:A:307:ARG:HB2	1:A:318:LEU:O	2.08	0.54
1:A:346:VAL:HG13	1:A:407:TRP:CZ2	2.40	0.54
1:B:268:ARG:HH12	1:B:282:GLN:CD	2.15	0.54
1:A:220:LEU:HB3	1:A:233:LEU:HD12	1.89	0.54
1:A:549:HIS:HD1	1:B:549:HIS:CE1	2.25	0.54
1:B:91:ALA:HB1	1:B:105:ARG:NE	2.22	0.54
1:B:300:THR:O	1:B:301:SER:HB2	2.06	0.54
1:B:562:GLU:HG3	2:B:724:HOH:O	2.07	0.54
1:A:24:LYS:O	1:A:40:GLY:HA2	2.08	0.54
1:A:59:LEU:O	1:A:101:GLY:N	2.41	0.54
1:A:249:THR:HG22	1:A:250:TRP:HB3	1.88	0.54
1:A:175:VAL:HB	1:A:197:PHE:H	1.73	0.54
1:A:309:VAL:HG12	1:A:316:PRO:HB3	1.90	0.54
1:A:379:ASP:OD1	1:A:381:PHE:CD1	2.61	0.54
1:B:376:ASP:CB	2:B:616:HOH:O	2.46	0.54
1:B:397:TYR:HD1	1:B:419:GLU:HB3	1.71	0.54
1:A:105:ARG:O	1:A:107:GLU:N	2.40	0.54
1:A:172:GLY:C	1:A:174:ARG:N	2.63	0.54
1:B:245:PRO:HB2	1:B:263:ALA:HB1	1.90	0.54
1:B:323:PRO:CB	1:B:326:LEU:HD12	2.37	0.54
1:A:308:ILE:N	1:A:318:LEU:O	2.33	0.54
1:B:408:ARG:O	1:B:411:ILE:HG22	2.08	0.54
1:B:421:GLU:O	1:B:425:ALA:N	2.39	0.54
1:B:567:ILE:HD12	1:B:567:ILE:C	2.32	0.54
1:B:570:PRO:HA	2:B:653:HOH:O	2.07	0.54
1:A:468:GLY:C	1:A:470:SER:N	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:164:ILE:HD11	1:B:182:LEU:HA	1.89	0.54
1:B:508:HIS:C	1:B:510:ASP:N	2.64	0.54
1:B:565:VAL:O	1:B:568:LEU:N	2.40	0.54
1:A:23:GLU:HG2	2:A:600:HOH:O	2.08	0.53
1:A:489:ILE:O	1:A:490:GLU:C	2.50	0.53
1:B:30:VAL:N	1:B:289:VAL:HG11	2.23	0.53
1:B:205:GLY:O	1:B:206:MET:HB2	2.08	0.53
1:A:258:ARG:HD2	1:A:273:ILE:CG2	2.38	0.53
1:B:177:LEU:HD22	1:B:223:VAL:HG21	1.89	0.53
1:B:490:GLU:O	1:B:495:GLY:N	2.27	0.53
1:B:522:GLN:HB3	1:B:551:ILE:O	2.07	0.53
1:B:536:MET:HE1	1:B:550:ILE:HD11	1.90	0.53
1:A:96:ASN:HD21	1:A:98:SER:HB2	1.73	0.53
1:A:175:VAL:CG2	1:A:196:SER:HB3	2.38	0.53
1:B:114:ILE:N	1:B:114:ILE:HD12	2.23	0.53
1:B:249:THR:N	1:B:262:VAL:O	2.42	0.53
1:B:543:GLY:O	1:B:544:LYS:C	2.50	0.53
1:A:37:LEU:HD12	1:A:49:TYR:O	2.08	0.53
1:A:292:ARG:O	1:A:294:LYS:HD2	2.08	0.53
1:A:334:ARG:NH2	1:A:350:VAL:HG11	2.22	0.53
1:A:579:ARG:HG2	1:A:580:GLU:N	2.22	0.53
1:A:46:VAL:O	1:A:64:ILE:HG12	2.09	0.53
1:A:115:LEU:O	1:A:116:SER:HB3	2.07	0.53
1:A:174:ARG:NH2	1:A:405:GLU:OE2	2.41	0.53
1:A:351:LEU:CD1	1:A:382:ALA:HB1	2.38	0.53
1:A:469:ALA:HA	1:A:520:HIS:CE1	2.44	0.53
1:B:195:GLY:HA3	1:B:213:GLU:O	2.08	0.53
1:A:22:VAL:HG21	1:A:323:PRO:HD3	1.90	0.53
1:A:274:ASP:C	1:A:276:GLU:H	2.17	0.53
1:A:442:MET:HG3	1:A:466:VAL:HB	1.89	0.53
1:A:456:THR:HG22	1:A:512:ILE:HG12	1.90	0.53
1:A:524:ASP:OD1	1:A:556:HIS:HB2	2.09	0.53
1:B:509:VAL:HA	1:B:512:ILE:CD1	2.35	0.53
1:A:58:LYS:HD3	2:A:736:HOH:O	2.08	0.53
1:A:62:GLU:HB2	1:A:81:ARG:NH2	2.23	0.53
1:A:115:LEU:HB2	2:A:677:HOH:O	2.08	0.53
1:A:379:ASP:OD1	1:A:381:PHE:HD1	1.92	0.53
1:B:423:VAL:HG21	1:B:450:MET:HG2	1.90	0.53
1:B:445:SER:C	1:B:447:GLY:N	2.66	0.53
1:A:194:GLU:HB3	1:A:214:THR:HG22	1.91	0.53
1:A:348:THR:HG21	1:A:393:VAL:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:31:VAL:CG1	1:B:32:ASP:N	2.71	0.53
1:B:42:SER:OG	1:B:43:GLU:N	2.42	0.53
1:A:151:PRO:HB2	1:A:170:PHE:CD2	2.44	0.53
1:A:169:PHE:CE2	1:A:371:PHE:HD1	2.27	0.53
1:A:328:ARG:HG2	1:A:328:ARG:NH1	2.23	0.52
1:A:350:VAL:HA	2:A:652:HOH:O	2.09	0.52
1:A:414:ASP:CG	1:A:414:ASP:O	2.51	0.52
1:A:84:SER:OG	1:A:87:ALA:HB3	2.10	0.52
1:A:125:VAL:HG13	1:A:137:TYR:O	2.09	0.52
1:B:325:ASP:C	1:B:328:ARG:H	2.17	0.52
1:A:497:ARG:C	1:A:499:ILE:N	2.67	0.52
1:B:133:ARG:HD2	1:B:146:GLU:OE2	2.09	0.52
1:B:539:LEU:HD13	1:B:546:PHE:CD1	2.44	0.52
1:A:106:LEU:HD11	2:A:589:HOH:O	2.09	0.52
1:A:551:ILE:N	1:A:551:ILE:HD12	2.25	0.52
1:B:209:THR:O	1:B:210:ALA:HB2	2.09	0.52
1:B:158:ASP:C	1:B:159:ILE:HD13	2.34	0.52
1:B:366:VAL:HG12	2:B:588:HOH:O	2.07	0.52
1:A:198:SER:HB3	1:A:213:GLU:OE2	2.09	0.52
1:A:392:VAL:HG12	1:A:393:VAL:N	2.25	0.52
1:A:441:ILE:HB	1:A:462:PHE:CE1	2.45	0.52
1:A:463:LYS:HB2	2:A:729:HOH:O	2.09	0.52
1:B:59:LEU:HA	1:B:100:PRO:HB3	1.90	0.52
1:B:242:SER:C	1:B:244:ARG:H	2.15	0.52
1:B:325:ASP:HA	1:B:328:ARG:NE	2.24	0.52
1:B:457:MET:C	1:B:459:PRO:HD2	2.34	0.52
1:A:132:ASP:O	1:A:133:ARG:HB3	2.09	0.52
1:A:354:GLY:C	1:A:356:ALA:H	2.18	0.52
1:A:415:PRO:HD3	1:A:492:LEU:O	2.08	0.52
1:B:246:THR:HG21	1:B:402:GLY:O	2.10	0.52
1:A:309:VAL:HG12	1:A:316:PRO:CB	2.39	0.52
1:A:353:SER:HB2	1:A:386:ALA:HA	1.92	0.52
1:B:501:ARG:O	1:B:507:ASN:OD1	2.27	0.52
1:A:304:THR:HG23	2:A:654:HOH:O	2.10	0.52
1:A:339:GLU:OE2	1:A:343:GLY:HA2	2.09	0.52
1:A:463:LYS:O	1:A:514:GLU:HB3	2.09	0.52
1:A:530:LYS:HB3	1:A:531:PRO:CD	2.28	0.52
1:B:159:ILE:CD1	1:B:164:ILE:HG23	2.39	0.52
1:B:472:VAL:HG23	1:B:532:LEU:HD22	1.92	0.52
1:B:564:ALA:HB2	2:B:729:HOH:O	2.10	0.52
1:A:468:GLY:O	1:A:469:ALA:C	2.53	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:246:THR:HG22	1:B:265:ARG:HA	1.91	0.52
1:B:489:ILE:HG21	1:B:500:MET:HE3	1.91	0.52
1:A:202:ILE:HG13	2:A:653:HOH:O	2.09	0.51
1:B:37:LEU:HD23	1:B:70:PRO:HG3	1.91	0.51
1:B:145:ARG:HD3	2:B:664:HOH:O	2.09	0.51
1:B:281:PRO:HG3	2:B:595:HOH:O	2.09	0.51
1:A:129:ALA:HB1	1:A:134:VAL:HG22	1.91	0.51
1:A:133:ARG:HD2	2:A:609:HOH:O	2.10	0.51
1:A:497:ARG:O	1:A:500:MET:N	2.43	0.51
1:A:471:VAL:HG11	1:A:474:TRP:CZ3	2.46	0.51
1:B:397:TYR:CD1	1:B:419:GLU:HB3	2.45	0.51
1:B:495:GLY:O	1:B:496:SER:C	2.54	0.51
1:B:497:ARG:N	2:B:648:HOH:O	2.42	0.51
1:A:482:ASP:OD1	1:A:485:PHE:HD1	1.93	0.51
1:B:141:GLY:C	1:B:143:GLY:H	2.18	0.51
1:A:181:ASN:HB3	1:A:185:GLY:H	1.75	0.51
1:A:299:HIS:CG	1:A:300:THR:N	2.77	0.51
1:B:72:TYR:CE2	1:B:289:VAL:HG13	2.46	0.51
1:B:136:LEU:O	1:B:147:LEU:HB2	2.10	0.51
1:B:463:LYS:O	2:B:689:HOH:O	2.19	0.51
1:B:579:ARG:O	1:B:581:ARG:N	2.43	0.51
1:A:87:ALA:HA	1:A:523:ASN:O	2.11	0.51
1:A:284:ASN:ND2	1:A:376:ASP:O	2.43	0.51
1:A:305:PRO:O	1:A:306:PRO:C	2.52	0.51
1:B:78:ILE:HD11	1:B:124:VAL:HG22	1.93	0.51
1:B:411:ILE:HD12	1:B:419:GLU:CG	2.41	0.51
1:B:487:ASN:O	1:B:491:GLN:HG3	2.10	0.51
1:A:27:LEU:HB3	2:A:605:HOH:O	2.10	0.51
1:B:225:PRO:HB2	2:B:738:HOH:O	2.11	0.51
1:A:399:GLY:HA2	1:A:408:ARG:O	2.10	0.51
1:A:350:VAL:HG12	1:A:351:LEU:N	2.26	0.51
1:B:344:SER:N	2:B:722:HOH:O	2.43	0.51
1:A:63:PRO:HB3	2:A:595:HOH:O	2.11	0.51
1:A:81:ARG:O	1:A:90:HIS:HA	2.11	0.51
1:A:174:ARG:HH21	1:A:405:GLU:CG	2.23	0.51
1:A:385:LEU:HB3	2:A:720:HOH:O	2.11	0.51
1:A:474:TRP:CB	1:A:500:MET:HB3	2.40	0.51
1:B:349:TYR:HB3	1:B:394:MET:HE3	1.93	0.51
1:B:362:THR:CG2	1:B:363:VAL:H	2.23	0.51
1:B:401:THR:HG22	1:B:408:ARG:CD	2.41	0.51
1:A:172:GLY:C	1:A:174:ARG:H	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:82:ASP:OD1	1:B:84:SER:OG	2.22	0.50
1:B:379:ASP:O	1:B:380:THR:C	2.53	0.50
1:A:371:PHE:N	1:A:371:PHE:CD2	2.78	0.50
1:B:139:LEU:HD12	1:B:143:GLY:O	2.11	0.50
1:B:430:ALA:O	1:B:436:ALA:N	2.38	0.50
1:A:202:ILE:CG1	2:A:653:HOH:O	2.58	0.50
1:A:415:PRO:O	1:A:416:CYS:HB3	2.11	0.50
1:A:472:VAL:HG21	1:A:535:LEU:HD22	1.93	0.50
1:A:551:ILE:CG2	1:A:552:PRO:HD2	2.41	0.50
1:B:451:THR:O	2:B:615:HOH:O	2.18	0.50
1:B:482:ASP:HB2	2:B:604:HOH:O	2.12	0.50
1:A:29:GLY:O	1:A:37:LEU:HB3	2.11	0.50
1:A:207:LYS:HE2	1:A:224:ASP:HB2	1.93	0.50
1:A:569:LEU:O	1:A:573:PHE:CD2	2.65	0.50
1:B:109:VAL:CG2	1:B:139:LEU:HD22	2.41	0.50
1:B:235:LEU:HD13	1:B:274:ASP:C	2.37	0.50
1:B:314:GLY:HA3	2:B:595:HOH:O	2.09	0.50
1:B:353:SER:HB3	1:B:356:ALA:CB	2.38	0.50
1:A:160:ARG:NH1	1:A:203:SER:HA	2.27	0.50
1:A:268:ARG:HA	1:A:283:GLY:O	2.11	0.50
1:A:400:SER:C	2:A:618:HOH:O	2.53	0.50
1:B:76:ARG:NH2	2:B:725:HOH:O	2.32	0.50
1:B:362:THR:OG1	1:B:391:HIS:HB2	2.11	0.50
1:B:35:LYS:HB2	1:B:50:LEU:HD22	1.93	0.50
1:B:56:THR:N	2:B:735:HOH:O	2.43	0.50
1:B:81:ARG:HB3	1:B:93:PHE:CE1	2.47	0.50
1:B:393:VAL:HB	2:B:775:HOH:O	2.11	0.50
1:B:476:GLU:O	1:B:480:LEU:HG	2.12	0.50
1:A:365:LEU:HB2	2:A:693:HOH:O	2.12	0.50
1:A:399:GLY:N	1:A:407:TRP:O	2.45	0.50
1:B:35:LYS:CG	1:B:52:ASP:OD1	2.60	0.50
1:B:250:TRP:CZ3	1:B:260:ALA:HB3	2.46	0.50
1:B:255:PRO:C	1:B:257:GLY:H	2.19	0.50
1:B:371:PHE:CE2	1:B:408:ARG:NH1	2.79	0.50
1:A:249:THR:HG22	1:A:250:TRP:N	2.25	0.50
1:A:294:LYS:O	1:A:296:VAL:HG23	2.12	0.50
1:A:366:VAL:HG12	1:A:367:HIS:O	2.12	0.50
1:B:34:ASP:O	1:B:35:LYS:HG2	2.10	0.50
1:B:445:SER:C	1:B:447:GLY:H	2.19	0.50
1:B:455:LEU:CD1	1:B:516:LEU:HD13	2.42	0.50
1:A:94:LYS:HB3	1:A:106:LEU:HD21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:413:GLY:HA2	1:A:493:THR:HA	1.93	0.50
1:A:308:ILE:O	1:A:317:LEU:N	2.44	0.49
1:A:536:MET:CE	1:A:550:ILE:HD11	2.41	0.49
1:B:522:GLN:HE21	1:B:523:ASN:CG	2.19	0.49
1:A:202:ILE:HG22	1:A:203:SER:N	2.26	0.49
1:A:529:LEU:CD1	1:A:550:ILE:HD12	2.33	0.49
1:B:431:ARG:HG3	1:B:431:ARG:HH11	1.77	0.49
1:A:60:ASN:ND2	1:A:62:GLU:O	2.37	0.49
1:A:240:PHE:HD1	1:A:272:PHE:CD1	2.31	0.49
1:B:251:LEU:HD11	1:B:259:LEU:HD11	1.93	0.49
1:A:71:HIS:HB2	1:A:119:ASP:O	2.11	0.49
1:A:522:GLN:HG2	1:A:552:PRO:HA	1.94	0.49
1:B:49:TYR:CA	1:B:57:VAL:O	2.54	0.49
1:B:405:GLU:HG3	1:B:409:LEU:HG	1.95	0.49
1:B:451:THR:HG21	1:B:466:VAL:O	2.12	0.49
1:A:68:LEU:HB2	1:A:78:ILE:HB	1.94	0.49
1:A:408:ARG:O	1:A:411:ILE:HG22	2.13	0.49
1:A:417:GLY:H	1:A:419:GLU:CD	2.19	0.49
1:B:153:PHE:CE1	1:B:488:PHE:HB2	2.45	0.49
1:B:311:LEU:HB3	1:B:312:PRO:HA	1.95	0.49
1:B:486:ARG:O	1:B:490:GLU:HG3	2.12	0.49
1:A:44:GLY:HA2	1:A:561:MET:N	2.22	0.49
1:B:243:TYR:CZ	1:B:270:ALA:HB2	2.47	0.49
1:B:431:ARG:HG3	1:B:431:ARG:NH1	2.28	0.49
1:A:160:ARG:HH22	1:A:204:PRO:HG3	1.78	0.49
1:A:309:VAL:HA	1:A:317:LEU:H	1.77	0.49
1:B:365:LEU:HD23	1:B:394:MET:HG2	1.94	0.49
1:A:142:GLY:HA3	2:A:636:HOH:O	2.11	0.49
1:A:416:CYS:SG	1:A:416:CYS:O	2.70	0.49
1:B:90:HIS:CG	1:B:114:ILE:HD13	2.46	0.49
1:B:376:ASP:C	2:B:600:HOH:O	2.55	0.49
1:A:174:ARG:NE	1:A:409:LEU:HD11	2.25	0.49
1:B:36:LEU:HD11	1:B:296:VAL:HG11	1.94	0.49
1:B:209:THR:HG23	1:B:233:LEU:HD12	1.95	0.49
1:A:124:VAL:N	1:A:139:LEU:O	2.38	0.49
1:A:224:ASP:OD1	1:A:225:PRO:HD2	2.12	0.49
1:A:475:GLU:OE1	1:A:497:ARG:HG3	2.13	0.49
1:B:65:ASN:HD21	1:B:82:ASP:HB2	1.77	0.49
1:B:280:ALA:CB	1:B:285:HIS:CE1	2.96	0.49
1:B:506:ILE:CD1	1:B:535:LEU:HA	2.43	0.49
1:B:522:GLN:HG3	1:B:523:ASN:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:VAL:HG11	1:A:121:GLY:CA	2.43	0.48
1:A:240:PHE:CE1	1:A:245:PRO:HG3	2.47	0.48
1:A:305:PRO:HD2	2:A:654:HOH:O	2.11	0.48
1:A:379:ASP:OD1	1:A:379:ASP:C	2.56	0.48
1:B:71:HIS:HA	2:B:666:HOH:O	2.13	0.48
1:B:411:ILE:HD13	1:B:419:GLU:HG2	1.94	0.48
1:A:194:GLU:CB	1:A:212:LEU:HD21	2.38	0.48
1:A:277:ARG:HD2	1:A:278:VAL:H	1.77	0.48
1:B:239:ASP:HA	1:B:242:SER:OG	2.13	0.48
1:A:341:PHE:CG	1:A:342:ASP:N	2.82	0.48
1:A:579:ARG:NH1	1:A:579:ARG:CB	2.75	0.48
1:B:379:ASP:HB3	1:B:382:ALA:CB	2.43	0.48
1:B:459:PRO:HG3	2:B:605:HOH:O	2.13	0.48
1:B:516:LEU:HD21	1:B:518:LEU:HD21	1.94	0.48
1:A:136:LEU:HD11	1:A:156:VAL:HG22	1.96	0.48
1:A:194:GLU:OE2	1:A:219:ARG:NH2	2.47	0.48
1:B:68:LEU:HD12	1:B:78:ILE:CD1	2.43	0.48
1:B:243:TYR:O	1:B:244:ARG:C	2.56	0.48
1:B:453:CYS:N	2:B:731:HOH:O	2.46	0.48
1:A:374:ASP:CG	1:A:394:MET:HB3	2.39	0.48
1:A:563:ASP:HA	1:A:566:LYS:CB	2.43	0.48
1:B:40:GLY:HA3	1:B:49:TYR:HE1	1.79	0.48
1:B:272:PHE:CE2	1:B:277:ARG:HB2	2.48	0.48
1:A:40:GLY:C	1:A:42:SER:N	2.72	0.48
1:A:361:PRO:HB3	1:A:438:GLU:OE2	2.14	0.48
1:A:384:SER:O	1:A:387:ALA:HB3	2.13	0.48
1:B:68:LEU:HD12	1:B:124:VAL:HG13	1.95	0.48
1:B:210:ALA:O	1:B:211:GLY:C	2.55	0.48
1:A:26:SER:OG	1:A:28:GLN:NE2	2.46	0.48
1:A:130:THR:O	1:A:131:GLU:C	2.56	0.48
1:A:192:SER:HB3	1:A:195:GLY:O	2.13	0.48
1:A:258:ARG:HB3	1:A:273:ILE:HG23	1.96	0.48
1:A:264:ARG:NE	1:A:373:GLU:OE2	2.45	0.48
1:A:374:ASP:N	1:A:396:ASN:OD1	2.35	0.48
1:B:376:ASP:HA	2:B:600:HOH:O	2.12	0.48
1:A:129:ALA:CB	1:A:484:ALA:HB2	2.43	0.48
1:A:330:ILE:HD12	1:A:330:ILE:N	2.29	0.48
1:A:452:LEU:HB3	1:A:505:PRO:HG2	1.95	0.48
1:A:549:HIS:ND1	1:A:570:PRO:HB3	2.29	0.48
1:B:28:GLN:HG3	1:B:67:VAL:HG21	1.96	0.48
1:B:449:TYR:N	2:B:685:HOH:O	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:519:ILE:HD13	1:B:567:ILE:O	2.13	0.48
1:A:173:GLY:O	1:A:408:ARG:NH2	2.47	0.48
1:A:174:ARG:NH2	1:A:195:GLY:HA2	2.29	0.48
1:A:222:THR:HB	1:A:231:GLU:CG	2.43	0.48
1:A:553:ASP:OD1	1:B:545:THR:CG2	2.61	0.48
1:B:331:ALA:HB3	1:B:352:GLU:C	2.38	0.48
1:B:365:LEU:HD11	1:B:381:PHE:HB3	1.96	0.48
1:B:367:HIS:CE1	1:B:400:SER:OG	2.67	0.48
1:B:442:MET:HG3	1:B:466:VAL:CG1	2.44	0.48
1:B:468:GLY:HA2	1:B:519:ILE:O	2.13	0.48
1:B:38:VAL:CG1	1:B:308:ILE:HD13	2.44	0.48
1:B:282:GLN:NE2	2:B:660:HOH:O	2.46	0.48
1:B:294:LYS:HG2	2:B:705:HOH:O	2.13	0.48
1:B:411:ILE:HG12	1:B:492:LEU:HD11	1.95	0.48
1:B:458:LYS:N	1:B:459:PRO:CD	2.77	0.48
1:B:568:LEU:O	1:B:572:VAL:HG23	2.14	0.48
1:A:90:HIS:HD2	1:A:114:ILE:N	2.08	0.47
1:A:415:PRO:HG3	1:A:493:THR:HG22	1.95	0.47
1:A:460:GLY:O	1:A:461:LEU:C	2.57	0.47
1:A:474:TRP:HD1	1:A:500:MET:HA	1.79	0.47
1:A:569:LEU:HB3	1:A:570:PRO:CD	2.36	0.47
1:B:333:SER:HA	1:B:350:VAL:O	2.14	0.47
1:B:520:HIS:CB	2:B:744:HOH:O	2.62	0.47
1:A:214:THR:C	1:A:216:ARG:N	2.70	0.47
1:A:372:ALA:O	1:A:373:GLU:HB3	2.14	0.47
1:A:521:PRO:CB	1:A:555:GLY:O	2.62	0.47
1:B:406:GLU:HG2	1:B:410:LYS:CE	2.41	0.47
1:B:451:THR:HA	2:B:615:HOH:O	2.14	0.47
1:A:98:SER:C	1:A:100:PRO:HD3	2.39	0.47
1:B:27:LEU:HD12	1:B:38:VAL:HG12	1.94	0.47
1:B:73:GLY:O	1:B:74:VAL:C	2.57	0.47
1:B:322:LEU:O	1:B:323:PRO:O	2.33	0.47
1:B:475:GLU:O	1:B:478:TYR:HB3	2.14	0.47
1:A:224:ASP:O	1:A:228:GLY:HA2	2.14	0.47
1:A:515:PRO:CA	2:A:613:HOH:O	2.47	0.47
1:B:212:LEU:CD2	1:B:219:ARG:HH12	2.12	0.47
1:B:550:ILE:N	1:B:550:ILE:HD12	2.29	0.47
1:A:309:VAL:CA	1:A:316:PRO:HA	2.41	0.47
1:B:70:PRO:HA	1:B:119:ASP:HB3	1.97	0.47
1:B:248:ILE:HD12	1:B:248:ILE:N	2.28	0.47
1:B:504:SER:O	1:B:506:ILE:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:520:HIS:CE1	2:B:618:HOH:O	2.67	0.47
1:B:551:ILE:HB	1:B:554:ALA:CB	2.43	0.47
1:B:385:LEU:O	1:B:390:PHE:N	2.45	0.47
1:B:477:MET:HA	1:B:528:PRO:HG3	1.96	0.47
1:A:104:GLN:NE2	2:A:699:HOH:O	2.47	0.47
1:A:219:ARG:HH12	1:A:221:VAL:CG1	2.27	0.47
1:A:254:LEU:HD11	1:A:295:LEU:HD21	1.96	0.47
1:A:312:PRO:O	1:A:313:SER:C	2.58	0.47
1:A:358:THR:HA	1:A:359:PRO:C	2.39	0.47
1:A:430:ALA:HB1	1:A:436:ALA:HB2	1.97	0.47
1:B:112:MET:HB2	1:B:130:THR:HG22	1.97	0.47
1:B:250:TRP:CE3	1:B:287:ARG:HA	2.50	0.47
1:B:309:VAL:HG12	1:B:316:PRO:CA	2.45	0.47
1:B:477:MET:CA	2:B:756:HOH:O	2.58	0.47
1:B:480:LEU:CB	2:B:756:HOH:O	2.52	0.47
1:A:258:ARG:HD2	1:A:273:ILE:HG21	1.97	0.47
1:A:346:VAL:HG22	1:A:407:TRP:CZ2	2.50	0.47
1:A:367:HIS:HE1	1:A:396:ASN:HA	1.80	0.47
1:B:476:GLU:CG	1:B:531:PRO:HG3	2.45	0.47
1:B:495:GLY:O	1:B:496:SER:O	2.33	0.47
1:A:237:SER:O	1:A:275:GLY:HA3	2.14	0.47
1:A:267:GLY:CA	1:A:375:SER:HB2	2.45	0.47
1:A:452:LEU:HB2	2:A:709:HOH:O	2.14	0.47
1:B:445:SER:HA	1:B:469:ALA:O	2.15	0.47
1:B:472:VAL:HG23	2:B:683:HOH:O	2.14	0.47
1:A:62:GLU:HB2	1:A:81:ARG:HE	1.80	0.47
1:A:519:ILE:CG2	1:A:567:ILE:HG22	2.44	0.47
1:B:47:ASN:HB2	2:B:656:HOH:O	2.15	0.47
1:B:89:GLN:HA	1:B:112:MET:O	2.15	0.47
1:B:280:ALA:HB3	1:B:285:HIS:CE1	2.50	0.47
1:B:367:HIS:HD2	1:B:368:GLY:O	1.98	0.47
1:B:441:ILE:HD13	2:B:615:HOH:O	2.15	0.47
1:A:151:PRO:HD2	1:A:170:PHE:CZ	2.49	0.46
1:A:366:VAL:HG13	1:A:397:TYR:CE2	2.50	0.46
1:B:52:ASP:C	1:B:54:GLY:N	2.74	0.46
1:B:322:LEU:O	1:B:323:PRO:C	2.59	0.46
1:B:428:ARG:O	1:B:429:TRP:C	2.58	0.46
1:B:431:ARG:HA	1:B:436:ALA:HB3	1.98	0.46
1:A:45:SER:CB	2:A:595:HOH:O	2.59	0.46
1:A:160:ARG:NH2	1:A:204:PRO:HG3	2.30	0.46
1:B:133:ARG:HD2	2:B:608:HOH:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:302:LEU:HG	1:A:376:ASP:OD1	2.15	0.46
1:A:532:LEU:O	1:A:536:MET:HG3	2.15	0.46
1:B:332:GLY:H	1:B:352:GLU:HB2	1.80	0.46
1:B:520:HIS:CD2	1:B:521:PRO:HD2	2.32	0.46
1:A:88:GLU:HG3	1:A:113:ARG:NH1	2.29	0.46
1:A:270:ALA:HB3	2:A:588:HOH:O	2.15	0.46
1:A:399:GLY:CA	1:A:408:ARG:HA	2.46	0.46
1:B:41:PHE:HZ	1:B:558:ILE:HG22	1.80	0.46
1:B:71:HIS:O	1:B:72:TYR:C	2.58	0.46
1:B:134:VAL:HB	1:B:150:LEU:HB2	1.97	0.46
1:B:178:PHE:HB2	1:B:187:LEU:HD11	1.96	0.46
1:B:251:LEU:HD12	1:B:259:LEU:HD11	1.97	0.46
1:B:458:LYS:O	1:B:461:LEU:CB	2.63	0.46
1:A:486:ARG:HG3	1:A:486:ARG:NH1	2.29	0.46
1:A:510:ASP:HB2	2:A:607:HOH:O	2.16	0.46
1:B:160:ARG:HD2	1:B:202:ILE:CG2	2.46	0.46
1:B:504:SER:C	1:B:506:ILE:H	2.24	0.46
1:A:93:PHE:HA	1:A:104:GLN:O	2.16	0.46
1:A:272:PHE:HD2	1:A:277:ARG:HA	1.80	0.46
1:A:370:PRO:C	1:A:372:ALA:H	2.21	0.46
1:A:398:ARG:HD3	1:A:410:LYS:HB3	1.97	0.46
1:B:51:TYR:CE2	1:B:53:GLY:HA2	2.51	0.46
1:B:88:GLU:HG2	1:B:113:ARG:HH12	1.74	0.46
1:B:323:PRO:HG2	1:B:326:LEU:CD1	2.43	0.46
1:A:138:ALA:HB2	1:A:147:LEU:CD2	2.38	0.46
1:A:222:THR:HG22	1:A:222:THR:O	2.16	0.46
1:A:240:PHE:CZ	1:A:245:PRO:HG3	2.51	0.46
1:A:265:ARG:HD3	2:A:598:HOH:O	2.15	0.46
1:A:579:ARG:CB	1:A:579:ARG:HH11	2.28	0.46
1:B:125:VAL:HA	1:B:138:ALA:HA	1.96	0.46
1:A:277:ARG:HD2	1:A:278:VAL:N	2.31	0.46
1:A:444:TYR:O	1:A:445:SER:HB3	2.16	0.46
1:B:51:TYR:CE2	1:B:317:LEU:HB3	2.43	0.46
1:B:448:GLY:HA3	1:B:470:SER:HB3	1.97	0.46
1:B:464:ALA:HB2	1:B:578:GLN:HG3	1.98	0.46
1:B:577:THR:CB	2:B:784:HOH:O	2.57	0.46
1:A:152:GLY:O	1:A:153:PHE:C	2.57	0.46
1:A:574:PHE:O	1:A:578:GLN:HG2	2.15	0.46
1:B:30:VAL:CG2	1:B:290:LEU:O	2.64	0.46
1:B:75:GLY:O	1:B:96:ASN:OD1	2.34	0.46
1:B:347:PRO:HG2	1:B:396:ASN:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:458:LYS:HB3	1:B:461:LEU:CD2	2.45	0.46
1:B:476:GLU:CD	1:B:531:PRO:HG3	2.41	0.46
1:A:95:VAL:CG2	1:A:103:GLU:HG2	2.45	0.45
1:A:451:THR:HG21	1:A:466:VAL:C	2.42	0.45
1:B:48:ALA:O	1:B:58:LYS:HA	2.17	0.45
1:B:251:LEU:HD11	1:B:259:LEU:HD21	1.98	0.45
1:B:279:GLU:HB2	1:B:312:PRO:O	2.15	0.45
1:B:334:ARG:NH2	1:B:429:TRP:HH2	2.14	0.45
1:A:47:ASN:HB3	1:A:60:ASN:OD1	2.17	0.45
1:A:178:PHE:CD1	1:A:178:PHE:O	2.70	0.45
1:A:420:LEU:HD11	1:A:454:ALA:HA	1.97	0.45
1:A:558:ILE:HD12	1:A:563:ASP:CB	2.31	0.45
1:B:178:PHE:HD2	2:B:706:HOH:O	1.99	0.45
1:B:307:ARG:HB2	1:B:319:GLU:CB	2.46	0.45
1:A:446:TYR:O	1:A:449:TYR:HB3	2.15	0.45
1:B:326:LEU:HD23	1:B:355:ARG:NH1	2.31	0.45
1:A:129:ALA:HA	1:A:134:VAL:HA	1.99	0.45
1:A:413:GLY:H	1:A:492:LEU:C	2.24	0.45
1:B:178:PHE:C	1:B:178:PHE:HD1	2.24	0.45
1:B:327:ARG:NH2	2:B:651:HOH:O	2.48	0.45
1:B:482:ASP:O	1:B:486:ARG:HG3	2.17	0.45
1:A:475:GLU:HG2	1:A:500:MET:HB2	1.98	0.45
1:B:27:LEU:HD13	1:B:38:VAL:HG12	1.98	0.45
1:B:61:ARG:N	1:B:103:GLU:OE2	2.50	0.45
1:B:91:ALA:CB	1:B:105:ARG:NE	2.79	0.45
1:B:92:LEU:CD1	1:B:109:VAL:HG11	2.46	0.45
1:B:95:VAL:HG13	2:B:742:HOH:O	2.15	0.45
1:B:551:ILE:HD11	1:B:567:ILE:HG22	1.98	0.45
1:A:44:GLY:CA	1:A:561:MET:H	2.24	0.45
1:A:160:ARG:HD3	1:A:202:ILE:CG2	2.46	0.45
1:A:346:VAL:HG22	1:A:407:TRP:HH2	1.81	0.45
1:A:463:LYS:CB	2:A:729:HOH:O	2.63	0.45
1:A:579:ARG:HB2	1:A:579:ARG:CZ	2.46	0.45
1:B:164:ILE:O	1:B:179:THR:HA	2.16	0.45
1:B:233:LEU:HD22	1:B:235:LEU:HG	1.99	0.45
1:B:444:TYR:HA	1:B:468:GLY:O	2.17	0.45
1:A:34:ASP:O	1:A:291:TRP:NE1	2.50	0.45
1:A:251:LEU:HA	1:A:260:ALA:O	2.17	0.45
1:A:440:TYR:HE2	1:A:578:GLN:HB3	1.82	0.45
1:B:219:ARG:HD2	1:B:232:ASP:OD1	2.16	0.45
1:B:424:SER:CB	2:B:778:HOH:O	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:LEU:HD12	1:A:78:ILE:CG2	2.35	0.45
1:A:239:ASP:O	1:A:243:TYR:N	2.48	0.45
1:A:370:PRO:HG3	1:A:411:ILE:HD13	1.99	0.45
1:A:421:GLU:OE2	1:A:458:LYS:CE	2.65	0.45
1:A:475:GLU:HA	1:A:500:MET:CE	2.47	0.45
1:A:547:GLU:HB2	1:B:550:ILE:O	2.17	0.45
1:B:29:GLY:HA3	1:B:289:VAL:HG21	1.99	0.45
1:B:398:ARG:NH2	1:B:407:TRP:HZ3	2.13	0.45
1:B:411:ILE:CG1	1:B:492:LEU:HD11	2.46	0.45
1:B:479:GLU:HG2	2:B:617:HOH:O	2.16	0.45
1:B:520:HIS:HD2	1:B:521:PRO:CD	2.21	0.45
1:B:520:HIS:HB2	2:B:744:HOH:O	2.17	0.45
1:A:125:VAL:O	1:A:126:PHE:HB3	2.16	0.45
1:A:262:VAL:O	1:A:262:VAL:HG12	2.17	0.45
1:A:263:ALA:O	1:A:269:SER:CB	2.65	0.45
1:A:335:LEU:HD13	1:A:349:TYR:CE1	2.51	0.45
1:B:226:ARG:NE	2:B:769:HOH:O	2.49	0.45
1:B:476:GLU:HA	1:B:479:GLU:CG	2.47	0.45
1:B:476:GLU:HA	1:B:479:GLU:HG3	1.99	0.45
1:B:565:VAL:O	1:B:567:ILE:N	2.50	0.45
1:B:569:LEU:CB	1:B:570:PRO:HD3	2.42	0.45
1:A:179:THR:H	1:A:187:LEU:CD1	2.30	0.45
1:A:353:SER:C	1:A:355:ARG:N	2.74	0.45
1:B:415:PRO:O	1:B:503:ARG:HG3	2.17	0.45
1:B:448:GLY:HA3	1:B:470:SER:HA	1.99	0.45
1:B:508:HIS:C	1:B:510:ASP:H	2.25	0.45
1:A:163:LEU:HB3	1:A:202:ILE:HD13	1.98	0.44
1:B:38:VAL:HG11	1:B:308:ILE:HD13	1.99	0.44
1:B:156:VAL:HG23	2:B:596:HOH:O	2.16	0.44
1:B:497:ARG:O	1:B:498:GLU:C	2.60	0.44
1:A:25:TYR:HB3	1:A:38:VAL:CG1	2.46	0.44
1:A:284:ASN:ND2	1:A:376:ASP:C	2.75	0.44
1:A:499:ILE:C	1:A:501:ARG:N	2.76	0.44
1:B:330:ILE:HG23	1:B:351:LEU:HD21	1.99	0.44
1:B:364:VAL:HA	1:B:393:VAL:O	2.17	0.44
1:A:224:ASP:HA	1:A:225:PRO:HD3	1.83	0.44
1:A:520:HIS:N	1:A:549:HIS:O	2.35	0.44
1:B:255:PRO:C	1:B:257:GLY:N	2.76	0.44
1:B:340:SER:CA	2:B:722:HOH:O	2.65	0.44
1:B:551:ILE:HG23	1:B:566:LYS:HD3	1.98	0.44
1:A:109:VAL:HA	2:A:728:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:217:GLU:HG2	1:A:218:ALA:H	1.82	0.44
1:A:393:VAL:HG22	2:A:652:HOH:O	2.16	0.44
1:A:424:SER:HB3	1:A:461:LEU:HD21	1.99	0.44
1:B:40:GLY:N	1:B:47:ASN:O	2.32	0.44
1:B:221:VAL:HG12	1:B:232:ASP:HA	2.00	0.44
1:B:401:THR:HG22	1:B:408:ARG:HD3	1.97	0.44
1:B:571:ALA:HA	2:B:723:HOH:O	2.16	0.44
1:A:304:THR:HA	1:A:305:PRO:HD3	1.82	0.44
1:A:488:PHE:HZ	2:A:672:HOH:O	2.00	0.44
1:A:509:VAL:O	1:A:509:VAL:HG12	2.17	0.44
1:B:226:ARG:HG3	1:B:226:ARG:HH11	1.82	0.44
1:B:240:PHE:CE1	1:B:263:ALA:HB2	2.52	0.44
1:B:340:SER:N	2:B:722:HOH:O	2.43	0.44
1:B:538:GLU:O	1:B:539:LEU:C	2.60	0.44
1:A:31:VAL:HB	1:A:74:VAL:O	2.16	0.44
1:A:219:ARG:NH1	1:A:221:VAL:HG12	2.33	0.44
1:A:367:HIS:HD2	1:A:372:ALA:HB3	1.81	0.44
1:A:499:ILE:O	1:A:503:ARG:HB2	2.17	0.44
1:A:576:ALA:O	1:A:579:ARG:HB3	2.18	0.44
1:B:135:ALA:HB2	2:B:608:HOH:O	2.17	0.44
1:B:239:ASP:HA	1:B:242:SER:HG	1.82	0.44
1:B:456:THR:HG22	1:B:512:ILE:CD1	2.47	0.44
1:A:428:ARG:O	1:A:429:TRP:C	2.61	0.44
1:A:451:THR:O	1:A:455:LEU:HG	2.18	0.44
1:B:59:LEU:HB3	2:B:727:HOH:O	2.17	0.44
1:B:100:PRO:C	1:B:102:GLU:N	2.75	0.44
1:B:301:SER:HA	1:B:376:ASP:O	2.18	0.44
1:B:371:PHE:HD2	1:B:408:ARG:HH11	1.61	0.44
1:A:51:TYR:CE2	1:A:53:GLY:HA2	2.53	0.44
1:A:499:ILE:C	1:A:501:ARG:H	2.25	0.44
1:B:465:GLY:O	1:B:516:LEU:HD12	2.18	0.44
1:B:549:HIS:CE1	2:B:686:HOH:O	2.70	0.44
1:A:72:TYR:OH	1:A:289:VAL:HG12	2.18	0.44
1:A:117:GLY:HA2	1:A:126:PHE:HA	2.00	0.44
1:A:430:ALA:HB3	1:A:439:LEU:HD11	2.00	0.44
1:A:440:TYR:HD2	1:A:464:ALA:HB3	1.82	0.44
1:B:523:ASN:ND2	1:B:553:ASP:CA	2.81	0.44
1:A:61:ARG:NH1	1:A:101:GLY:CA	2.74	0.43
1:A:174:ARG:NH2	1:A:405:GLU:HG2	2.33	0.43
1:A:195:GLY:HA3	1:A:213:GLU:O	2.18	0.43
1:A:309:VAL:HB	1:A:315:GLU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:ILE:CD1	2:A:732:HOH:O	2.63	0.43
1:A:503:ARG:HA	2:A:601:HOH:O	2.17	0.43
1:B:48:ALA:N	2:B:679:HOH:O	2.50	0.43
1:B:118:VAL:HG21	1:B:159:ILE:HG12	1.99	0.43
1:B:264:ARG:HA	1:B:269:SER:HA	2.00	0.43
1:A:22:VAL:HG12	1:A:23:GLU:N	2.32	0.43
1:A:62:GLU:CB	1:A:81:ARG:HH21	2.31	0.43
1:B:86:GLY:CA	1:B:555:GLY:HA3	2.48	0.43
1:B:169:PHE:CZ	1:B:175:VAL:CG2	2.99	0.43
1:B:170:PHE:HD1	1:B:189:VAL:HG11	1.83	0.43
1:B:251:LEU:CD2	2:B:652:HOH:O	2.66	0.43
1:B:405:GLU:O	1:B:406:GLU:C	2.59	0.43
1:A:79:LEU:HD11	1:A:95:VAL:HG21	1.99	0.43
1:A:165:ALA:HB2	2:A:653:HOH:O	2.16	0.43
1:A:338:VAL:HG11	1:A:425:ALA:C	2.44	0.43
1:A:438:GLU:HG3	1:A:440:TYR:HE1	1.83	0.43
1:A:532:LEU:CD1	1:A:532:LEU:C	2.91	0.43
1:A:565:VAL:O	1:A:569:LEU:HB2	2.18	0.43
1:B:198:SER:HB2	1:B:248:ILE:O	2.18	0.43
1:B:209:THR:CA	1:B:222:THR:HG22	2.48	0.43
1:B:270:ALA:HB1	1:B:277:ARG:CZ	2.48	0.43
1:B:431:ARG:NH2	2:B:714:HOH:O	2.47	0.43
1:B:457:MET:C	1:B:459:PRO:CD	2.91	0.43
1:B:472:VAL:CG2	1:B:532:LEU:HD22	2.48	0.43
1:B:487:ASN:HA	1:B:490:GLU:OE1	2.17	0.43
1:B:580:GLU:O	1:B:581:ARG:HB2	2.18	0.43
1:A:164:ILE:HD13	1:A:181:ASN:CA	2.47	0.43
1:A:248:ILE:N	1:A:248:ILE:HD12	2.33	0.43
1:A:469:ALA:HB1	1:A:556:HIS:CE1	2.54	0.43
1:A:469:ALA:HB1	1:A:556:HIS:ND1	2.32	0.43
1:A:546:PHE:C	1:B:552:PRO:HB3	2.43	0.43
1:B:224:ASP:HB3	1:B:227:ASP:OD1	2.18	0.43
1:B:487:ASN:O	1:B:487:ASN:OD1	2.37	0.43
1:A:277:ARG:NH1	1:A:277:ARG:HG2	2.33	0.43
1:A:366:VAL:HG11	1:A:450:MET:HG3	2.00	0.43
1:A:578:GLN:O	1:A:581:ARG:N	2.52	0.43
1:B:42:SER:HA	1:B:561:MET:CE	2.48	0.43
1:B:79:LEU:HD11	1:B:95:VAL:CG2	2.45	0.43
1:B:207:LYS:HG2	1:B:222:THR:HB	1.99	0.43
1:B:371:PHE:HA	1:B:399:GLY:O	2.19	0.43
1:B:414:ASP:OD2	1:B:418:GLY:N	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:493:THR:HA	2:B:629:HOH:O	2.18	0.43
1:A:33:GLY:H	1:A:73:GLY:HA2	1.83	0.43
1:A:74:VAL:HG11	1:A:121:GLY:HA3	2.00	0.43
1:A:146:GLU:CD	2:A:609:HOH:O	2.61	0.43
1:A:421:GLU:O	1:A:424:SER:HB2	2.19	0.43
1:A:509:VAL:O	1:A:509:VAL:CG1	2.66	0.43
1:B:472:VAL:HG21	1:B:532:LEU:HA	2.01	0.43
1:B:472:VAL:O	1:B:505:PRO:HD2	2.18	0.43
1:B:473:ASP:OD1	1:B:475:GLU:N	2.49	0.43
1:B:494:GLY:O	1:B:496:SER:N	2.51	0.43
1:B:522:GLN:HB3	1:B:550:ILE:HG22	1.99	0.43
1:B:523:ASN:HD21	1:B:553:ASP:HA	1.82	0.43
1:A:106:LEU:CD2	2:A:698:HOH:O	2.66	0.43
1:A:178:PHE:HB2	1:A:187:LEU:HD11	2.01	0.43
1:B:240:PHE:O	1:B:245:PRO:CD	2.67	0.43
1:B:419:GLU:O	1:B:423:VAL:HG23	2.19	0.43
1:B:427:ALA:O	1:B:428:ARG:C	2.60	0.43
1:B:508:HIS:O	1:B:509:VAL:C	2.62	0.43
1:A:77:VAL:HG23	1:A:97:THR:CG2	2.49	0.43
1:A:197:PHE:HD2	1:A:210:ALA:HB1	1.84	0.43
1:A:381:PHE:O	1:A:385:LEU:HB2	2.18	0.43
1:A:475:GLU:CA	1:A:500:MET:HE2	2.49	0.43
1:B:137:TYR:CD1	1:B:137:TYR:N	2.86	0.43
1:B:209:THR:OG1	1:B:253:TYR:OH	2.32	0.43
1:B:246:THR:CG2	1:B:265:ARG:HA	2.49	0.43
1:B:299:HIS:CG	1:B:300:THR:N	2.86	0.43
1:B:300:THR:O	1:B:301:SER:CB	2.67	0.43
1:B:377:SER:N	2:B:600:HOH:O	2.51	0.43
1:B:520:HIS:CE1	1:B:529:LEU:HA	2.54	0.43
1:B:30:VAL:HG23	1:B:289:VAL:HG12	1.99	0.43
1:A:71:HIS:HB2	1:A:120:THR:HA	2.01	0.43
1:A:78:ILE:HG23	2:A:589:HOH:O	2.19	0.43
1:A:167:LEU:CD2	1:A:197:PHE:HB2	2.49	0.43
1:B:59:LEU:CD1	1:B:77:VAL:HG21	2.46	0.43
1:B:205:GLY:O	1:B:206:MET:CB	2.67	0.43
1:B:334:ARG:NH2	1:B:429:TRP:CH2	2.87	0.43
1:B:489:ILE:HG13	2:B:642:HOH:O	2.18	0.43
1:A:138:ALA:HB3	1:A:147:LEU:HD21	1.98	0.42
1:A:167:LEU:HD11	1:A:199:SER:HA	2.01	0.42
1:A:188:ARG:HG3	1:A:188:ARG:HH11	1.84	0.42
1:A:350:VAL:HG22	2:A:652:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:31:VAL:HG21	1:B:37:LEU:HD22	2.00	0.42
1:B:203:SER:O	1:B:206:MET:N	2.46	0.42
1:B:324:GLU:OE1	1:B:324:GLU:HA	2.19	0.42
1:A:32:ASP:CB	1:A:35:LYS:HD2	2.49	0.42
1:A:120:THR:HG22	1:A:120:THR:O	2.19	0.42
1:B:26:SER:OG	1:B:28:GLN:NE2	2.51	0.42
1:B:50:LEU:CD1	1:B:59:LEU:HD21	2.48	0.42
1:B:218:ALA:HB1	1:B:248:ILE:HD12	1.97	0.42
1:B:401:THR:HG22	1:B:408:ARG:HD2	2.01	0.42
1:B:526:ARG:HH21	1:B:557:ALA:HB2	1.81	0.42
1:A:203:SER:CB	1:A:204:PRO:CD	2.97	0.42
1:A:288:VAL:CG1	1:A:295:LEU:HD22	2.49	0.42
1:A:351:LEU:HD12	1:A:382:ALA:HB1	2.00	0.42
1:B:84:SER:HB3	1:B:89:GLN:HB2	2.01	0.42
1:B:100:PRO:C	1:B:102:GLU:H	2.27	0.42
1:B:428:ARG:O	1:B:431:ARG:N	2.49	0.42
1:B:450:MET:HA	1:B:453:CYS:HB3	2.01	0.42
1:A:203:SER:HB2	1:A:204:PRO:CD	2.49	0.42
1:A:342:ASP:N	1:A:342:ASP:OD1	2.50	0.42
1:A:440:TYR:HE2	1:A:578:GLN:CB	2.32	0.42
1:B:330:ILE:HB	2:B:720:HOH:O	2.19	0.42
1:B:536:MET:HA	2:B:678:HOH:O	2.19	0.42
1:A:35:LYS:HG2	1:A:52:ASP:OD2	2.20	0.42
1:A:96:ASN:HD22	1:A:99:ARG:HG3	1.84	0.42
1:B:123:ALA:CB	1:B:182:LEU:HD11	2.50	0.42
1:B:359:PRO:O	1:B:437:SER:HB3	2.19	0.42
1:B:574:PHE:CB	2:B:723:HOH:O	2.67	0.42
1:A:158:ASP:HB2	1:A:201:SER:HA	2.02	0.42
1:A:170:PHE:HB2	2:A:662:HOH:O	2.20	0.42
1:B:70:PRO:HB2	1:B:74:VAL:CG2	2.41	0.42
1:B:501:ARG:NH1	2:B:749:HOH:O	2.52	0.42
1:A:29:GLY:HA2	1:A:289:VAL:HG11	2.02	0.42
1:A:48:ALA:HB2	1:A:67:VAL:HG21	2.01	0.42
1:A:359:PRO:HA	1:A:435:LEU:HA	2.02	0.42
1:A:393:VAL:CG1	1:A:426:ALA:HB1	2.49	0.42
1:A:476:GLU:CD	1:A:531:PRO:HG3	2.45	0.42
1:A:542:ARG:O	1:A:543:GLY:C	2.62	0.42
1:A:579:ARG:CG	1:A:580:GLU:N	2.82	0.42
1:B:476:GLU:OE1	1:B:531:PRO:HA	2.20	0.42
1:A:371:PHE:CE1	1:A:408:ARG:NH1	2.88	0.42
1:B:392:VAL:HG12	1:B:394:MET:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:418:GLY:O	1:B:421:GLU:HB2	2.19	0.42
1:B:429:TRP:C	1:B:431:ARG:N	2.75	0.42
1:B:530:LYS:O	1:B:531:PRO:C	2.61	0.42
1:A:44:GLY:HA2	1:A:561:MET:HB3	2.01	0.42
1:A:84:SER:CB	1:A:87:ALA:HB3	2.50	0.42
1:A:315:GLU:OE1	1:A:315:GLU:HA	2.18	0.42
1:A:370:PRO:C	1:A:372:ALA:N	2.78	0.42
1:A:443:GLY:C	1:A:444:TYR:CD1	2.98	0.42
1:A:469:ALA:HB1	1:A:556:HIS:HD1	1.85	0.42
1:B:79:LEU:N	1:B:93:PHE:O	2.43	0.42
1:B:209:THR:HA	1:B:222:THR:HG22	2.02	0.42
1:B:305:PRO:HA	1:B:306:PRO:HD3	1.92	0.42
1:B:443:GLY:HA2	2:B:601:HOH:O	2.19	0.42
1:A:212:LEU:HG	1:A:214:THR:HG23	2.01	0.42
1:A:367:HIS:N	2:A:584:HOH:O	2.53	0.42
1:B:76:ARG:HA	1:B:96:ASN:HA	2.01	0.42
1:B:133:ARG:NE	1:B:149:ARG:HH21	2.18	0.42
1:A:46:VAL:C	2:A:595:HOH:O	2.63	0.41
1:A:92:LEU:HB3	1:A:106:LEU:HD12	2.02	0.41
1:B:59:LEU:C	1:B:95:VAL:HG11	2.45	0.41
1:B:168:GLY:HA3	2:B:706:HOH:O	2.20	0.41
1:B:240:PHE:HD1	1:B:272:PHE:CD1	2.37	0.41
1:B:569:LEU:HD12	1:B:569:LEU:HA	1.83	0.41
1:A:264:ARG:HA	1:A:269:SER:HA	2.02	0.41
1:B:176:SER:HA	2:B:746:HOH:O	2.19	0.41
1:B:302:LEU:HD13	1:B:351:LEU:HD13	2.02	0.41
1:B:315:GLU:HA	1:B:316:PRO:HD2	1.75	0.41
1:B:520:HIS:HA	1:B:521:PRO:HD3	1.81	0.41
1:A:296:VAL:HA	2:A:670:HOH:O	2.20	0.41
1:B:201:SER:HB3	2:B:652:HOH:O	2.20	0.41
1:B:227:ASP:OD1	1:B:227:ASP:N	2.42	0.41
1:B:264:ARG:HH11	1:B:264:ARG:HG2	1.85	0.41
1:B:300:THR:OG1	1:B:301:SER:N	2.53	0.41
1:B:419:GLU:OE2	1:B:420:LEU:N	2.45	0.41
1:A:250:TRP:CE3	1:A:250:TRP:C	2.98	0.41
1:A:373:GLU:HB2	1:A:396:ASN:OD1	2.20	0.41
1:B:457:MET:O	1:B:459:PRO:HD2	2.20	0.41
1:A:169:PHE:CE2	1:A:371:PHE:CD1	3.04	0.41
1:A:219:ARG:NH1	1:A:221:VAL:CG1	2.84	0.41
1:B:86:GLY:O	1:B:555:GLY:HA3	2.21	0.41
1:B:133:ARG:HE	1:B:133:ARG:HB3	1.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:291:TRP:O	1:B:292:ARG:HB2	2.19	0.41
1:B:309:VAL:HA	1:B:316:PRO:HA	2.02	0.41
1:B:397:TYR:CB	1:B:422:ASP:HB2	2.49	0.41
1:B:567:ILE:HD12	1:B:568:LEU:CA	2.47	0.41
1:B:569:LEU:HB3	1:B:570:PRO:CD	2.43	0.41
1:A:108:ALA:O	1:A:144:LEU:HB2	2.21	0.41
1:A:198:SER:CB	1:A:213:GLU:OE2	2.68	0.41
1:A:421:GLU:O	1:A:425:ALA:N	2.53	0.41
1:A:476:GLU:C	1:A:478:TYR:N	2.74	0.41
1:B:30:VAL:H	1:B:289:VAL:CG1	2.33	0.41
1:B:31:VAL:HG22	1:B:74:VAL:CG2	2.51	0.41
1:B:325:ASP:O	1:B:328:ARG:HB2	2.21	0.41
1:B:456:THR:HG22	1:B:512:ILE:HD11	2.00	0.41
1:B:504:SER:C	1:B:506:ILE:N	2.79	0.41
1:A:25:TYR:HA	1:A:39:VAL:O	2.20	0.41
1:A:71:HIS:O	1:A:72:TYR:C	2.64	0.41
1:A:226:ARG:HA	1:A:226:ARG:HD3	1.93	0.41
1:A:569:LEU:H	1:A:570:PRO:CD	2.33	0.41
1:B:78:ILE:CD1	1:B:124:VAL:HG22	2.50	0.41
1:B:328:ARG:NH1	2:B:682:HOH:O	2.54	0.41
1:B:444:TYR:OH	1:B:521:PRO:HG2	2.21	0.41
1:A:26:SER:HA	2:A:725:HOH:O	2.21	0.41
1:A:349:TYR:HB3	1:A:394:MET:HE3	2.03	0.41
1:A:367:HIS:CE1	1:A:396:ASN:HA	2.56	0.41
1:A:393:VAL:HA	2:A:652:HOH:O	2.21	0.41
1:A:551:ILE:HD13	1:A:567:ILE:HG22	2.03	0.41
1:A:562:GLU:C	1:A:564:ALA:N	2.68	0.41
1:B:125:VAL:HG13	1:B:137:TYR:O	2.20	0.41
1:B:263:ALA:O	1:B:269:SER:HA	2.21	0.41
1:B:514:GLU:HA	1:B:515:PRO:HD3	1.90	0.41
1:A:158:ASP:CB	1:A:201:SER:HA	2.50	0.41
1:A:190:PHE:CD1	1:A:190:PHE:N	2.88	0.41
1:A:194:GLU:CB	1:A:214:THR:HG22	2.51	0.41
1:A:224:ASP:O	1:A:228:GLY:N	2.53	0.41
1:A:322:LEU:HB2	2:A:697:HOH:O	2.21	0.41
1:A:329:SER:HB2	1:A:387:ALA:HA	2.02	0.41
1:A:398:ARG:HB2	1:A:410:LYS:HB2	2.03	0.41
1:A:562:GLU:O	1:A:565:VAL:N	2.52	0.41
1:B:29:GLY:HA2	1:B:289:VAL:HG11	2.03	0.41
1:B:31:VAL:CG1	1:B:32:ASP:H	2.34	0.41
1:B:145:ARG:NH1	2:B:624:HOH:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:272:PHE:HA	1:B:276:GLU:O	2.21	0.41
1:B:491:GLN:NE2	2:B:747:HOH:O	2.53	0.41
1:B:522:GLN:NE2	2:B:663:HOH:O	2.53	0.41
1:B:522:GLN:OE1	1:B:552:PRO:HA	2.21	0.41
1:A:59:LEU:O	1:A:101:GLY:HA2	2.20	0.41
1:A:119:ASP:OD1	1:A:120:THR:N	2.55	0.41
1:A:270:ALA:HB1	1:A:277:ARG:NE	2.36	0.41
1:A:309:VAL:CG1	1:A:316:PRO:HA	2.46	0.41
1:B:77:VAL:O	1:B:94:LYS:HA	2.20	0.41
1:B:156:VAL:CG1	1:B:159:ILE:HD11	2.51	0.41
1:B:280:ALA:HB1	1:B:285:HIS:CE1	2.56	0.41
1:B:357:PRO:O	1:B:360:GLY:CA	2.69	0.41
1:B:511:ARG:NH1	2:B:605:HOH:O	2.37	0.41
1:B:520:HIS:O	1:B:550:ILE:HA	2.21	0.41
1:B:534:ARG:HD3	1:B:534:ARG:HA	1.80	0.41
1:B:538:GLU:O	1:B:541:ALA:N	2.54	0.41
1:A:136:LEU:CD1	1:A:156:VAL:HG22	2.51	0.40
1:A:520:HIS:HA	1:A:521:PRO:HD3	1.80	0.40
1:A:521:PRO:HG2	1:A:555:GLY:O	2.21	0.40
1:B:93:PHE:CD1	1:B:93:PHE:N	2.89	0.40
1:B:364:VAL:CG1	1:B:395:PRO:HD3	2.51	0.40
1:B:453:CYS:CB	2:B:731:HOH:O	2.66	0.40
1:A:95:VAL:O	1:A:95:VAL:HG12	2.22	0.40
1:A:163:LEU:HD23	1:A:202:ILE:HD13	2.03	0.40
1:A:249:THR:HB	1:A:262:VAL:O	2.21	0.40
1:A:383:ALA:O	1:A:384:SER:C	2.65	0.40
1:B:95:VAL:HB	2:B:727:HOH:O	2.20	0.40
1:B:199:SER:OG	1:B:251:LEU:HB3	2.22	0.40
1:B:210:ALA:HA	1:B:251:LEU:CD2	2.51	0.40
1:B:278:VAL:CG1	1:B:312:PRO:HB3	2.49	0.40
1:B:397:TYR:HB2	1:B:422:ASP:HB2	2.03	0.40
1:B:440:TYR:CZ	1:B:463:LYS:HD3	2.56	0.40
1:B:567:ILE:HA	2:B:594:HOH:O	2.21	0.40
1:A:117:GLY:HA3	1:A:126:PHE:CB	2.51	0.40
1:A:147:LEU:HD22	2:A:695:HOH:O	2.21	0.40
1:A:219:ARG:HG3	1:A:219:ARG:NH1	2.36	0.40
1:A:428:ARG:CG	2:A:622:HOH:O	2.58	0.40
1:A:497:ARG:HD3	1:A:501:ARG:HE	1.85	0.40
1:B:371:PHE:CD2	1:B:408:ARG:NH1	2.79	0.40
1:B:379:ASP:HB3	1:B:382:ALA:HB3	2.03	0.40
1:B:398:ARG:HG2	1:B:419:GLU:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:429:TRP:O	1:B:431:ARG:N	2.54	0.40
1:A:23:GLU:H	1:A:23:GLU:HG3	1.69	0.40
1:A:107:GLU:C	1:A:109:VAL:H	2.29	0.40
1:A:188:ARG:HH11	1:A:188:ARG:CG	2.35	0.40
1:A:420:LEU:O	1:A:424:SER:N	2.54	0.40
1:A:477:MET:HE3	1:A:489:ILE:HD11	2.04	0.40
1:B:60:ASN:O	1:B:61:ARG:HG2	2.21	0.40
1:B:432:GLU:HG3	2:B:759:HOH:O	2.21	0.40
1:B:444:TYR:O	1:B:447:GLY:N	2.50	0.40
1:A:98:SER:O	1:A:100:PRO:HD3	2.21	0.40
1:A:305:PRO:CD	1:A:322:LEU:HD12	2.50	0.40
1:A:444:TYR:CD1	1:A:444:TYR:N	2.90	0.40
1:A:575:LEU:HD23	1:A:575:LEU:HA	1.93	0.40
1:B:131:GLU:OE2	1:B:131:GLU:O	2.40	0.40
1:B:133:ARG:CD	2:B:608:HOH:O	2.70	0.40
1:B:266:GLU:HA	1:B:403:TYR:CE2	2.57	0.40
1:B:281:PRO:HB2	1:B:299:HIS:CE1	2.57	0.40
1:B:334:ARG:HD2	2:B:661:HOH:O	2.22	0.40
1:B:340:SER:C	2:B:722:HOH:O	2.64	0.40
1:B:385:LEU:HD11	1:B:442:MET:CE	2.51	0.40
1:B:520:HIS:O	1:B:550:ILE:HG23	2.21	0.40
1:B:521:PRO:HA	1:B:554:ALA:HB3	2.04	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 X-ray entries followed by that with respect to entries of similar resolution.

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	558/562 (99%)	445 (80%)	90 (16%)	23 (4%)	2 5
1	B	559/562 (100%)	432 (77%)	96 (17%)	31 (6%)	1 2
All	All	1117/1124 (99%)	877 (78%)	186 (17%)	54 (5%)	2 3

All (54) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	43	GLU
1	A	72	TYR
1	A	563	ASP
1	B	206	MET
1	B	232	ASP
1	B	371	PHE
1	B	496	SER
1	A	106	LEU
1	A	321	GLY
1	A	354	GLY
1	A	371	PHE
1	A	498	GLU
1	A	543	GLY
1	A	568	LEU
1	B	45	SER
1	B	60	ASN
1	B	107	GLU
1	B	172	GLY
1	B	187	LEU
1	B	210	ALA
1	B	211	GLY
1	B	256	ASP
1	B	580	GLU
1	A	42	SER
1	A	216	ARG
1	B	323	PRO
1	B	498	GLU
1	B	505	PRO
1	B	522	GLN
1	B	544	LYS
1	A	116	SER
1	B	61	ARG
1	B	74	VAL
1	B	121	GLY
1	B	122	GLU
1	B	380	THR
1	B	430	ALA
1	B	560	THR
1	B	562	GLU
1	A	31	VAL
1	A	32	ASP
1	A	276	GLU

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Mol	Chain	Res	Type
1	A	579	ARG
1	B	292	ARG
1	A	430	ALA
1	B	301	SER
1	B	417	GLY
1	A	54	GLY
1	A	64	ILE
1	A	142	GLY
1	A	460	GLY
1	A	515	PRO
1	B	306	PRO
1	B	472	VAL

5.3.2 Protein sidechains [\(i\)](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	448/449 (100%)	412 (92%)	36 (8%)	10 24
1	B	448/449 (100%)	417 (93%)	31 (7%)	13 31
All	All	896/898 (100%)	829 (92%)	67 (8%)	11 28

All (67) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	43	GLU
1	A	56	THR
1	A	71	HIS
1	A	81	ARG
1	A	109	VAL
1	A	139	LEU
1	A	145	ARG
1	A	177	LEU
1	A	178	PHE
1	A	181	ASN
1	A	183	SER

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Mol	Chain	Res	Type
1	A	191	ASP
1	A	201	SER
1	A	216	ARG
1	A	233	LEU
1	A	249	THR
1	A	250	TRP
1	A	285	HIS
1	A	290	LEU
1	A	301	SER
1	A	318	LEU
1	A	322	LEU
1	A	344	SER
1	A	380	THR
1	A	419	GLU
1	A	435	LEU
1	A	441	ILE
1	A	444	TYR
1	A	453	CYS
1	A	461	LEU
1	A	480	LEU
1	A	522	GLN
1	A	552	PRO
1	A	559	ASN
1	A	563	ASP
1	A	579	ARG
1	B	56	THR
1	B	83	VAL
1	B	99	ARG
1	B	114	ILE
1	B	133	ARG
1	B	134	VAL
1	B	137	TYR
1	B	162	ASP
1	B	198	SER
1	B	204	PRO
1	B	219	ARG
1	B	222	THR
1	B	236	PRO
1	B	271	VAL
1	B	304	THR
1	B	315	GLU
1	B	322	LEU

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Mol	Chain	Res	Type
1	B	327	ARG
1	B	336	VAL
1	B	341	PHE
1	B	358	THR
1	B	384	SER
1	B	411	ILE
1	B	419	GLU
1	B	445	SER
1	B	456	THR
1	B	482	ASP
1	B	497	ARG
1	B	522	GLN
1	B	560	THR
1	B	568	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (21) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	GLN
1	A	90	HIS
1	A	96	ASN
1	A	104	GLN
1	A	284	ASN
1	A	285	HIS
1	A	578	GLN
1	B	28	GLN
1	B	65	ASN
1	B	90	HIS
1	B	96	ASN
1	B	104	GLN
1	B	282	GLN
1	B	284	ASN
1	B	367	HIS
1	B	396	ASN
1	B	491	GLN
1	B	507	ASN
1	B	520	HIS
1	B	522	GLN
1	B	523	ASN

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 Fit of model and data [\(i\)](#)

6.1 Protein, DNA and RNA chains [\(i\)](#)

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	560/562 (99%)	0.07	4 (0%) 84 83	7, 26, 44, 73	0
1	B	561/562 (99%)	0.32	11 (1%) 64 64	9, 32, 51, 71	0
All	All	1121/1124 (99%)	0.20	15 (1%) 74 74	7, 28, 49, 73	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	558	ILE	4.3
1	B	262	VAL	4.2
1	B	467	ALA	3.1
1	A	44	GLY	3.0
1	B	295	LEU	2.7
1	B	560	THR	2.5
1	B	558	ILE	2.4
1	B	67	VAL	2.3
1	B	218	ALA	2.2
1	A	322	LEU	2.2
1	A	444	TYR	2.1
1	B	235	LEU	2.1
1	B	285	HIS	2.0
1	B	225	PRO	2.0
1	B	41	PHE	2.0

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

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

6.3 Carbohydrates [\(i\)](#)

There are no monosaccharides in this entry.

6.4 Ligands [\(i\)](#)

There are no ligands in this entry.

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.