



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 17, 2023 – 05:28 AM EDT

PDB ID : 4WHB
Title : Crystal structure of phenylurea hydrolase B
Authors : Sugrue, E.; Carr, P.D.; Khurana, J.L.; Jackson, C.J.
Deposited on : 2014-09-21
Resolution : 2.96 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 ⓘ 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:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.35.1
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35.1

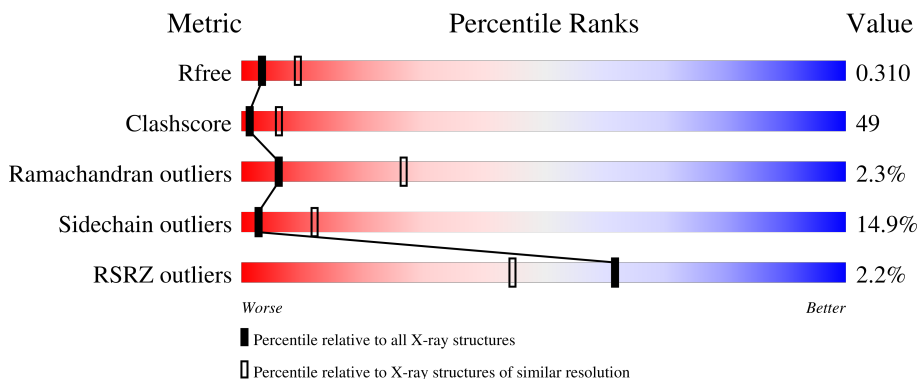
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.96 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.



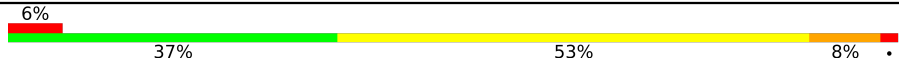

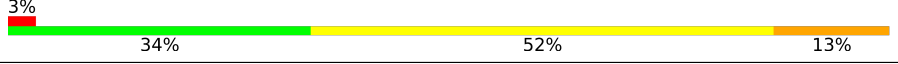
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3104 (3.00-2.92)
Clashscore	141614	3462 (3.00-2.92)
Ramachandran outliers	138981	3340 (3.00-2.92)
Sidechain outliers	138945	3343 (3.00-2.92)
RSRZ outliers	127900	2986 (3.00-2.92)

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.

Mol	Chain	Length	Quality of chain
1	A	461	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 39%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 50%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 10%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">2% 39% 50% 10% .</p>
1	B	461	<div style="display: flex; align-items: center;"> <div style="width: 46%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 43%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 10%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">46% 43% 10% .</p>
1	C	461	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 45%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 46%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 8%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">% 45% 46% 8% .</p>
1	D	461	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 40%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 46%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 12%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">% 40% 46% 12% .</p>
1	E	461	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 41%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 48%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 10%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">2% 41% 48% 10% .</p>

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Mol	Chain	Length	Quality of chain
1	F	461	
1	G	461	
1	H	461	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 55405 atoms, of which 27459 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 Phenylurea hydrolase B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	E	459	6918	2190	3430	618	670	10	0	0	0
1	A	459	6915	2190	3427	618	670	10	0	0	0
1	B	459	6944	2196	3445	622	671	10	0	2	0
1	C	459	6941	2196	3442	622	671	10	0	2	0
1	D	459	6917	2190	3429	618	670	10	0	0	0
1	F	459	6916	2190	3428	618	670	10	0	0	0
1	G	459	6917	2190	3429	618	670	10	0	0	0
1	H	459	6917	2190	3429	618	670	10	0	0	0

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Zn	0	0
			1	1		

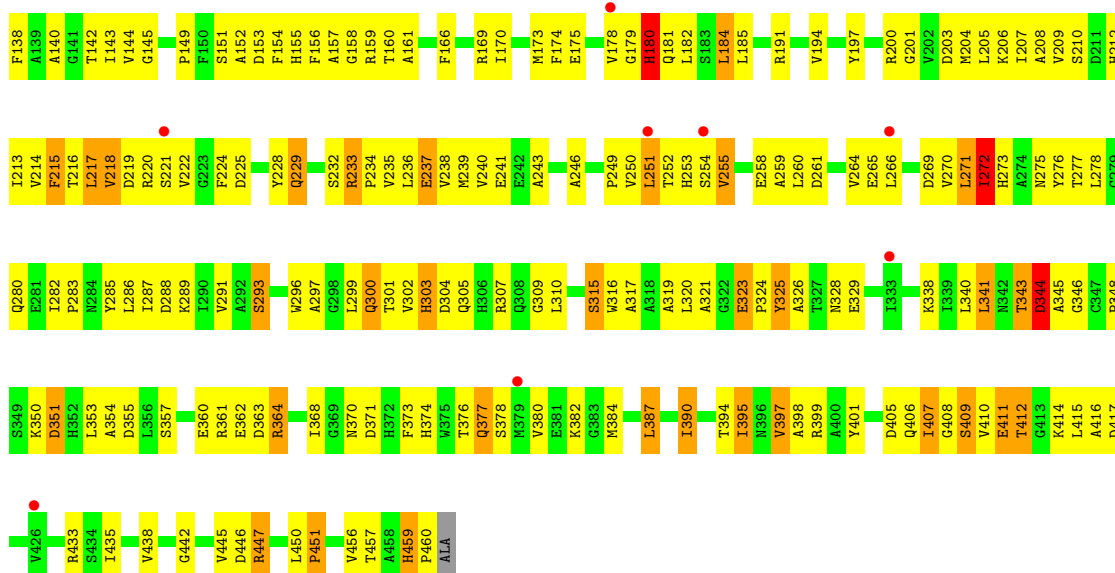
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	E	4	Total	O	0	0
			4	4		
3	A	3	Total	O	0	0
			3	3		
3	B	3	Total	O	0	0
			3	3		

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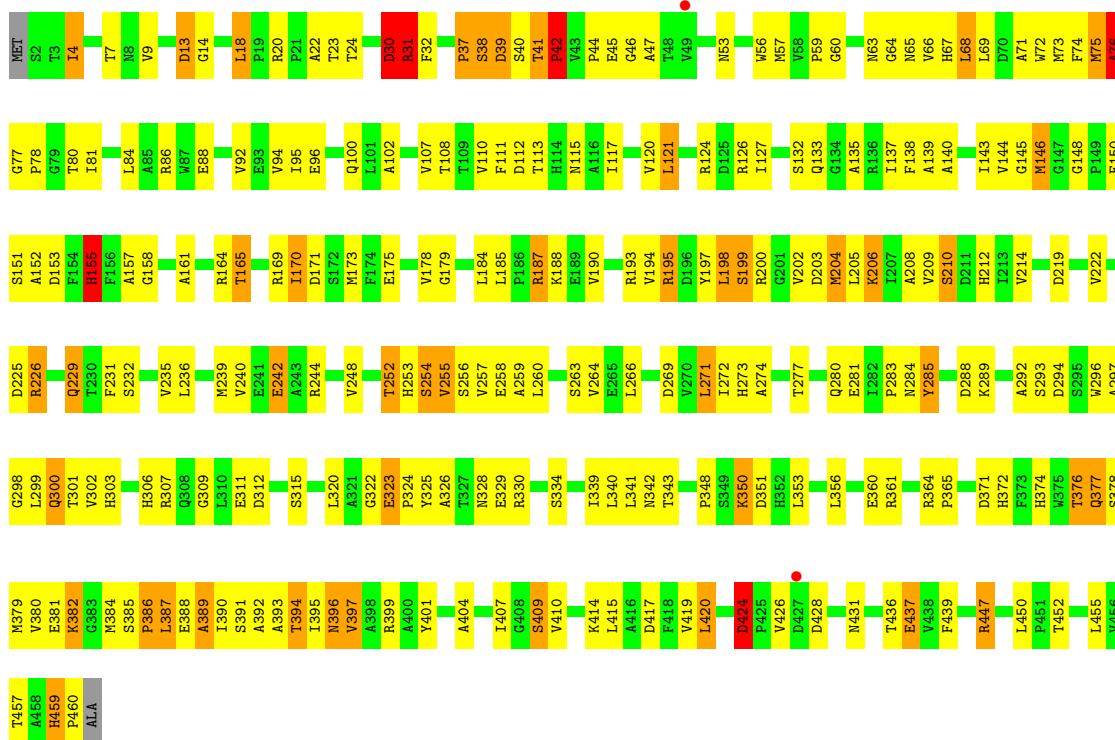
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	D	2	Total O 2 2	0	0
3	F	3	Total O 3 3	0	0
3	G	1	Total O 1 1	0	0
3	H	3	Total O 3 3	0	0



• Molecule 1: Phenylurea hydrolase B

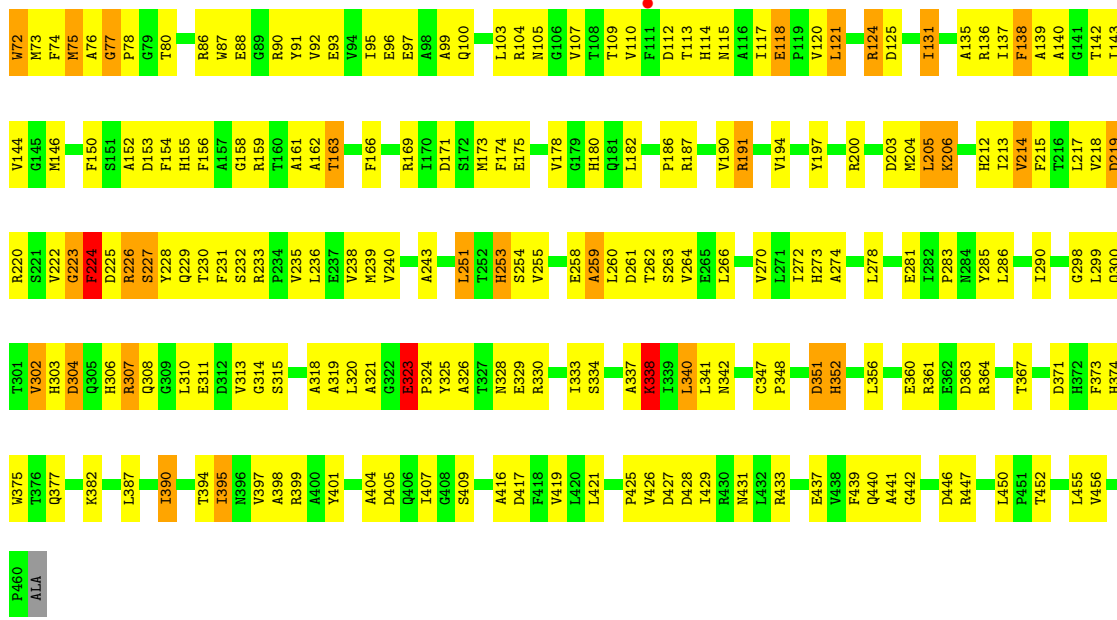
Chain B: 46% 43% 10%



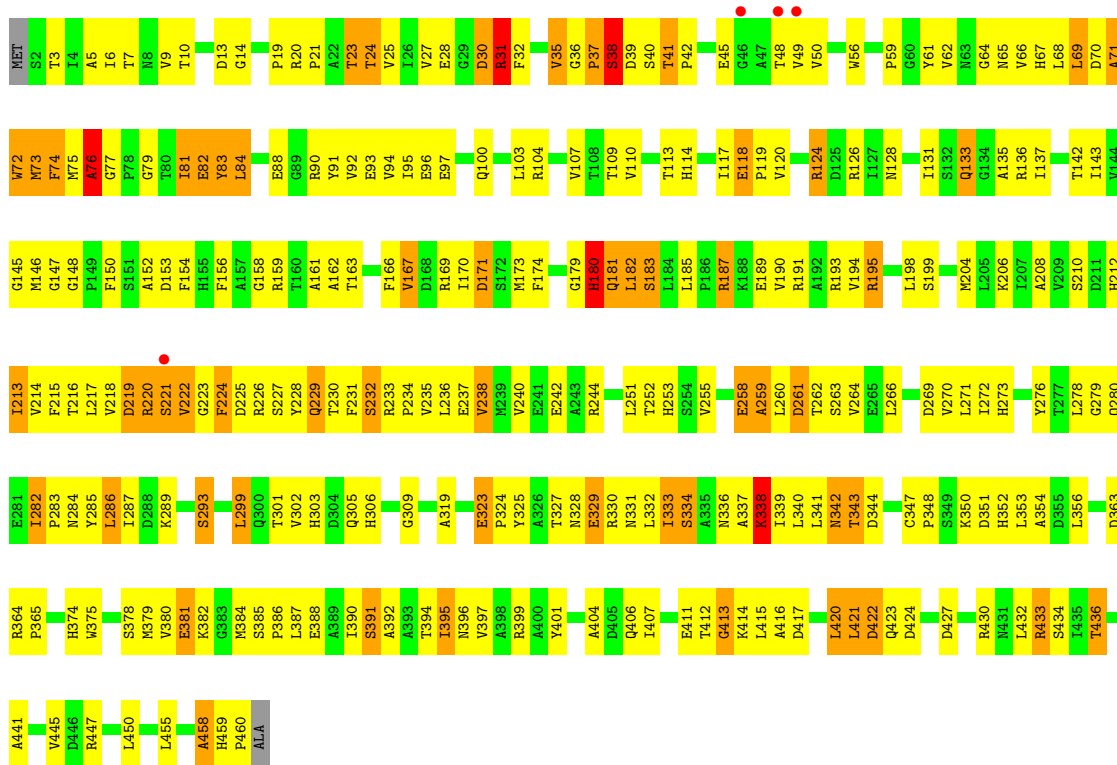
• Molecule 1: Phenylurea hydrolase B

Chain C: 45% 46% 8%



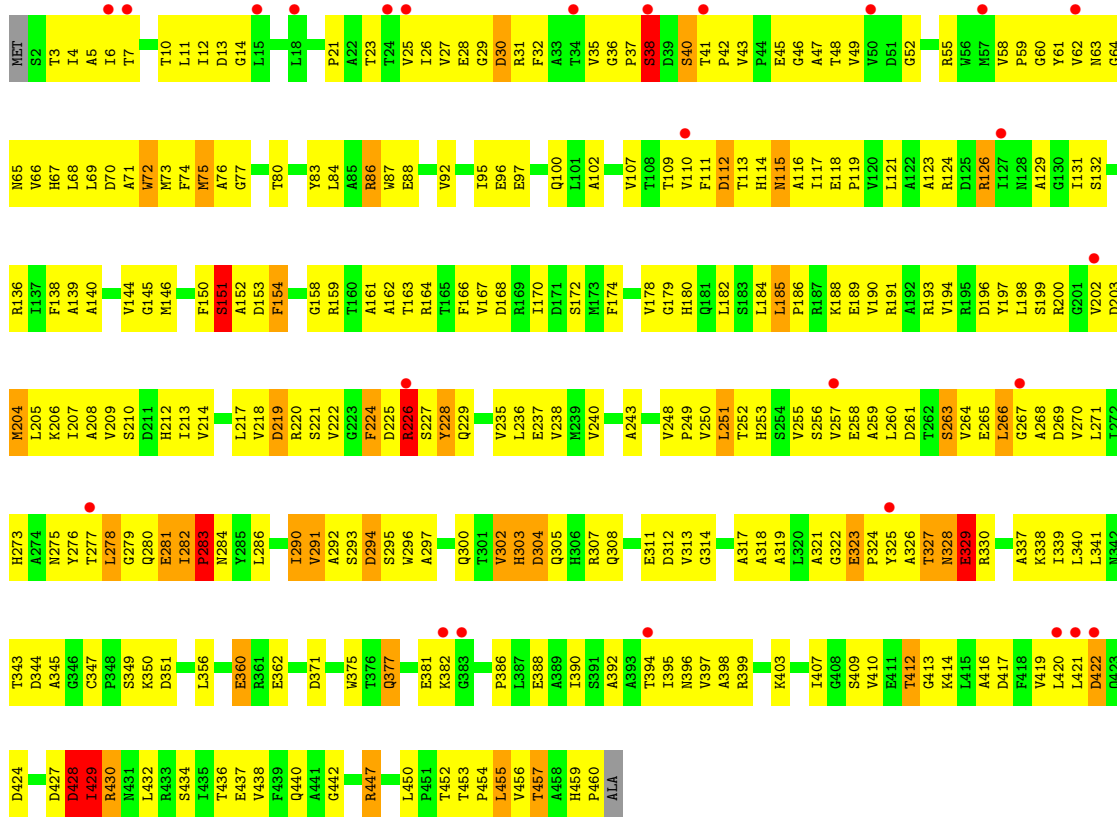


• Molecule 1: Phenylurea hydrolase B

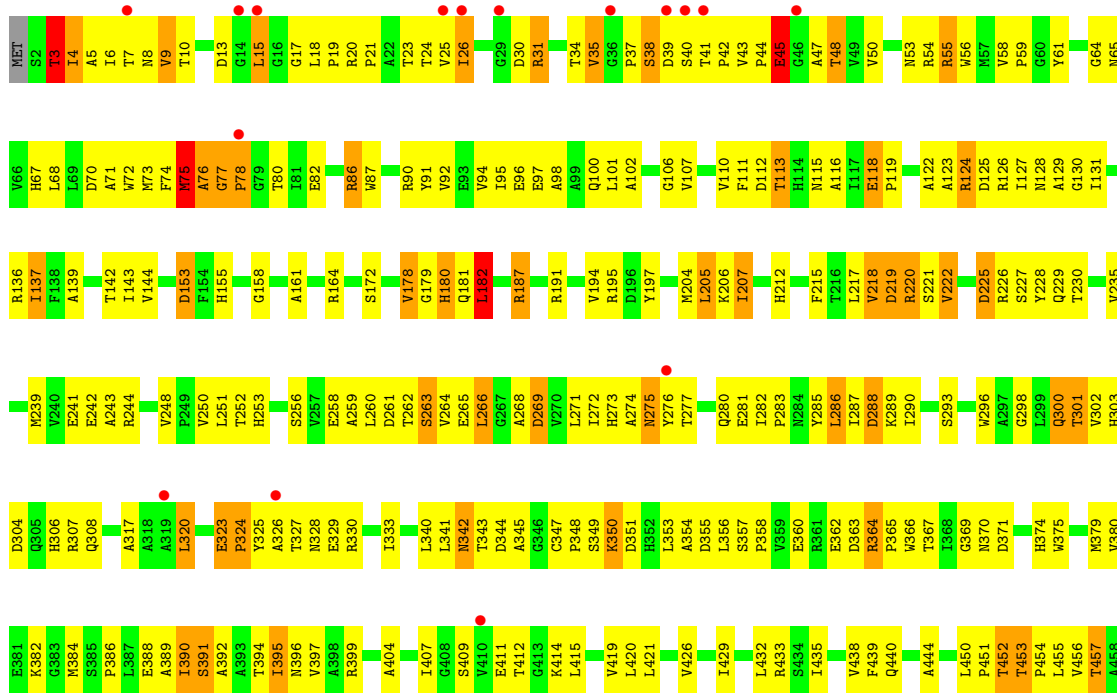


• Molecule 1: Phenylurea hydrolase B





• Molecule 1: Phenylurea hydrolase B



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	77.37Å 100.53Å 238.55Å 90.00° 98.37° 90.00°	Depositor
Resolution (Å)	39.59 – 2.96 39.59 – 2.96	Depositor EDS
% Data completeness (in resolution range)	98.9 (39.59-2.96) 89.7 (39.59-2.96)	Depositor EDS
R_{merge}	0.20	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.62 (at 2.95Å)	Xtrriage
Refinement program	PHENIX, REFMAC	Depositor
R, R_{free}	0.252 , 0.309 0.264 , 0.310	Depositor DCC
R_{free} test set	3768 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	31.9	Xtrriage
Anisotropy	1.235	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 26.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.39$, $\langle L^2 \rangle = 0.22$	Xtrriage
Estimated twinning fraction	0.085 for h,-k,-h-l	Xtrriage
F_o, F_c correlation	0.85	EDS
Total number of atoms	55405	wwPDB-VP
Average B, all atoms (Å ²)	41.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 24.56 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 3.7450e-03.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ 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](#)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.69	1/3560 (0.0%)	0.85	7/4857 (0.1%)
1	B	0.83	1/3576 (0.0%)	0.93	9/4878 (0.2%)
1	C	0.69	1/3576 (0.0%)	0.83	2/4878 (0.0%)
1	D	0.79	1/3560 (0.0%)	0.90	2/4857 (0.0%)
1	E	0.79	1/3560 (0.0%)	0.84	2/4857 (0.0%)
1	F	0.71	2/3560 (0.1%)	0.83	2/4857 (0.0%)
1	G	0.75	2/3560 (0.1%)	0.85	5/4857 (0.1%)
1	H	0.68	0/3560	0.84	0/4857
All	All	0.74	9/28512 (0.0%)	0.86	29/38898 (0.1%)

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	6
1	B	0	6
1	C	0	5
1	D	0	7
1	E	0	4
1	F	0	3
1	G	0	7
1	H	0	1
All	All	0	39

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	181	GLN	CD-OE1	6.14	1.37	1.24
1	G	300	GLN	CD-OE1	5.73	1.36	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	229	GLN	CD-OE1	5.53	1.36	1.24
1	F	72	TRP	CB-CG	-5.44	1.40	1.50
1	D	229	GLN	CD-OE1	5.33	1.35	1.24
1	B	42	PRO	N-CD	5.13	1.55	1.47
1	G	78	PRO	N-CD	5.12	1.55	1.47
1	F	377	GLN	CD-OE1	5.06	1.35	1.24
1	A	229	GLN	CD-OE1	5.03	1.35	1.24

All (29) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	226	ARG	NE-CZ-NH2	-8.43	116.09	120.30
1	F	283	PRO	CA-N-CD	-7.30	101.29	111.50
1	A	76	ALA	N-CA-C	-7.27	91.37	111.00
1	B	13	ASP	CB-CG-OD1	6.87	124.48	118.30
1	B	42	PRO	CA-N-CD	-6.51	102.39	111.50
1	A	41	THR	N-CA-C	6.33	128.09	111.00
1	B	18	LEU	C-N-CD	6.17	141.36	128.40
1	A	215	PHE	N-CA-C	6.12	127.53	111.00
1	A	351	ASP	CB-CG-OD1	6.09	123.78	118.30
1	B	86	ARG	NE-CZ-NH2	6.04	123.32	120.30
1	D	329	GLU	OE1-CD-OE2	-5.87	116.26	123.30
1	B	424	ASP	CB-CG-OD2	5.78	123.50	118.30
1	G	86	ARG	NE-CZ-NH1	5.71	123.16	120.30
1	A	272	ILE	N-CA-C	-5.69	95.64	111.00
1	C	304	ASP	CB-CG-OD2	5.63	123.37	118.30
1	G	77	GLY	C-N-CD	5.63	140.22	128.40
1	E	43	VAL	C-N-CD	5.58	140.11	128.40
1	G	187	ARG	NE-CZ-NH2	-5.55	117.52	120.30
1	B	76	ALA	C-N-CA	5.51	133.86	122.30
1	G	182	LEU	CA-CB-CG	5.48	127.90	115.30
1	F	86	ARG	NE-CZ-NH2	5.44	123.02	120.30
1	C	340	LEU	CA-CB-CG	5.42	127.75	115.30
1	D	344	ASP	CB-CG-OD1	5.35	123.12	118.30
1	B	126	ARG	NE-CZ-NH1	5.34	122.97	120.30
1	B	351	ASP	CB-CG-OD2	-5.32	113.51	118.30
1	A	180	HIS	N-CA-C	-5.30	96.68	111.00
1	G	75	MET	N-CA-C	-5.21	96.94	111.00
1	B	155	HIS	CB-CA-C	5.19	120.78	110.40
1	A	233	ARG	NE-CZ-NH1	5.15	122.87	120.30

There are no chirality outliers.

All (39) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	217	LEU	Peptide
1	A	293	SER	Peptide
1	A	344	ASP	Peptide
1	A	37	PRO	Peptide
1	A	38	SER	Peptide
1	A	75	MET	Peptide
1	B	30	ASP	Peptide
1	B	38	SER	Peptide
1	B	386	PRO	Peptide
1	B	407	ILE	Peptide
1	B	409	SER	Peptide
1	B	76	ALA	Peptide
1	C	138	PHE	Peptide
1	C	227	SER	Peptide
1	C	315	SER	Peptide
1	C	38	SER	Peptide
1	C	77	GLY	Peptide
1	D	180	HIS	Peptide
1	D	38	SER	Peptide
1	D	41	THR	Peptide
1	D	42	PRO	Peptide
1	D	458	ALA	Peptide
1	D	69	LEU	Peptide
1	D	76	ALA	Peptide
1	E	30	ASP	Peptide
1	E	39	ASP	Peptide
1	E	41	THR	Peptide
1	E	6	ILE	Peptide
1	F	284	ASN	Peptide
1	F	38	SER	Peptide
1	F	75	MET	Peptide
1	G	218	VAL	Peptide
1	G	222	VAL	Peptide
1	G	3	THR	Peptide
1	G	30	ASP	Peptide
1	G	39	ASP	Peptide
1	G	75	MET	Peptide
1	G	76	ALA	Peptide
1	H	218	VAL	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3488	3427	3427	386	1
1	B	3499	3445	3437	299	0
1	C	3499	3442	3437	271	1
1	D	3488	3429	3429	369	5
1	E	3488	3430	3429	317	0
1	F	3488	3428	3428	382	1
1	G	3488	3429	3429	257	5
1	H	3488	3429	3429	427	1
2	A	1	0	0	0	0
3	A	3	0	0	2	0
3	B	3	0	0	0	0
3	D	2	0	0	2	0
3	E	4	0	0	0	0
3	F	3	0	0	1	0
3	G	1	0	0	1	0
3	H	3	0	0	1	0
All	All	27946	27459	27445	2687	7

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 49.

All (2687) 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:H:6:ILE:HB	1:H:25:VAL:CG1	1.25	1.64
1:B:391:SER:CB	1:B:394:THR:HB	1.15	1.63
1:A:251:LEU:HD12	1:A:270:VAL:CB	1.46	1.45
1:E:224:PHE:CD1	1:E:278:LEU:HD11	1.51	1.43
1:F:322:GLY:HA2	1:F:326:ALA:CB	1.48	1.42
1:H:6:ILE:CB	1:H:25:VAL:CG1	1.99	1.39
1:C:227:SER:OG	1:C:228:TYR:HA	1.25	1.36
1:A:251:LEU:CD1	1:A:270:VAL:HB	1.55	1.36
1:F:72:TRP:O	1:F:76:ALA:CB	1.75	1.32
1:F:97:GLU:OE1	1:F:456:VAL:CG1	1.76	1.32
1:A:287:ILE:O	1:A:291:VAL:HG23	1.29	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:453:THR:O	1:F:455:LEU:CD2	1.81	1.27
1:B:391:SER:CB	1:B:394:THR:CB	2.11	1.26
1:D:70:ASP:O	1:D:72:TRP:N	1.69	1.26
1:B:389:ALA:O	1:B:392:ALA:CB	1.82	1.26
1:C:6:ILE:HG22	1:C:25:VAL:O	1.10	1.23
1:F:72:TRP:O	1:F:76:ALA:HB2	1.10	1.23
1:B:391:SER:HB3	1:B:394:THR:CB	1.68	1.22
1:C:6:ILE:HG21	1:C:25:VAL:CG2	1.67	1.22
1:D:7:THR:HA	1:D:24:THR:CG2	1.68	1.21
1:A:251:LEU:HD12	1:A:270:VAL:CG1	1.69	1.21
1:H:423:GLN:NE2	3:H:501:HOH:O	1.62	1.18
1:H:206:LYS:HE3	1:H:272:ILE:HG21	1.24	1.18
1:E:429:ILE:O	1:E:432:LEU:HD12	1.44	1.18
1:A:251:LEU:CD1	1:A:270:VAL:CB	2.13	1.18
1:F:322:GLY:O	1:F:323:GLU:HB2	1.40	1.18
1:F:453:THR:O	1:F:455:LEU:HD23	1.40	1.18
1:H:145:GLY:CA	1:H:179:GLY:HA2	1.73	1.17
1:H:204:MET:HA	1:H:248:VAL:CG1	1.72	1.17
1:B:389:ALA:O	1:B:392:ALA:HB1	1.39	1.17
1:B:301:THR:HG21	1:B:379:MET:HE2	1.20	1.15
1:C:323:GLU:CB	1:C:324:PRO:HD2	1.76	1.15
1:F:217:LEU:CD1	1:F:226:ARG:HH22	1.59	1.15
1:H:253:HIS:CD2	1:H:273:HIS:CE1	2.33	1.15
1:H:253:HIS:CD2	1:H:273:HIS:NE2	2.13	1.15
1:C:6:ILE:O	1:C:24:THR:HG23	1.43	1.15
1:G:68:LEU:HB3	1:G:95:ILE:HG23	1.27	1.15
1:B:301:THR:HG21	1:B:379:MET:CE	1.76	1.15
1:F:323:GLU:HB3	1:F:324:PRO:HD3	1.28	1.15
1:F:3:THR:HB	1:F:28:GLU:OE2	1.47	1.14
1:B:299:LEU:HD23	1:B:329:GLU:HB3	1.26	1.14
1:H:204:MET:HA	1:H:248:VAL:HG12	1.23	1.13
1:D:219:ASP:HB3	1:D:222:VAL:HG11	1.31	1.13
1:H:6:ILE:CB	1:H:25:VAL:HG13	1.70	1.13
1:A:75:MET:CE	1:A:212:HIS:HE1	1.63	1.12
1:A:459:HIS:HB2	1:A:460:PRO:HA	1.26	1.12
1:A:75:MET:CE	1:A:212:HIS:CE1	2.30	1.12
1:H:206:LYS:CE	1:H:272:ILE:HG21	1.78	1.12
1:H:6:ILE:CB	1:H:25:VAL:HG12	1.70	1.11
1:H:145:GLY:HA2	1:H:179:GLY:HA2	1.22	1.11
1:H:255:VAL:O	1:H:278:LEU:HD12	1.51	1.11
1:F:275:ASN:O	1:F:325:TYR:HD1	1.31	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:255:VAL:HB	1:H:278:LEU:HD11	1.12	1.10
1:D:32:PHE:HE2	1:D:412:THR:N	1.47	1.10
1:H:146:MET:HE2	1:H:208:ALA:HB2	1.23	1.10
1:F:264:VAL:CG1	1:F:293:SER:HB2	1.79	1.09
1:F:322:GLY:CA	1:F:326:ALA:HB2	1.81	1.09
1:E:153:ASP:HB3	1:E:212:HIS:HB3	1.29	1.09
1:H:6:ILE:HD12	1:H:25:VAL:HG11	1.25	1.09
1:E:235:VAL:O	1:E:239:MET:HG3	1.52	1.09
1:A:251:LEU:CD1	1:A:270:VAL:CG1	2.28	1.08
1:C:304:ASP:HA	1:C:307:ARG:HG2	1.09	1.08
1:D:332:LEU:O	1:D:337:ALA:HB2	1.52	1.08
1:D:333:ILE:HD13	1:D:334:SER:N	1.68	1.08
1:E:224:PHE:CE1	1:E:278:LEU:HD11	1.88	1.07
1:C:224:PHE:HE1	1:C:325:TYR:OH	1.32	1.07
1:F:323:GLU:HB3	1:F:324:PRO:CD	1.80	1.07
1:H:278:LEU:HA	1:H:325:TYR:OH	1.50	1.07
1:H:356:LEU:HB2	1:H:360:GLU:HG3	1.35	1.07
1:C:6:ILE:CG2	1:C:25:VAL:O	2.03	1.07
1:F:325:TYR:O	1:F:329:GLU:OE2	1.73	1.07
1:D:84:LEU:HD23	1:D:91:TYR:OH	1.55	1.06
1:H:6:ILE:HB	1:H:25:VAL:HG12	1.10	1.06
1:G:97:GLU:O	1:G:101:LEU:HD12	1.55	1.06
1:A:13:ASP:O	1:A:410:VAL:HG23	1.52	1.06
1:G:124:ARG:NH1	1:G:125:ASP:OD1	1.88	1.06
1:A:235:VAL:O	1:A:238:VAL:HG12	1.54	1.06
1:F:97:GLU:OE1	1:F:456:VAL:HG12	1.55	1.06
1:E:224:PHE:CD1	1:E:278:LEU:CD1	2.39	1.05
1:A:194:VAL:HG21	1:A:239:MET:CE	1.86	1.05
1:F:97:GLU:OE1	1:F:456:VAL:HG11	1.52	1.05
1:H:77:GLY:O	1:H:155:HIS:CD2	2.09	1.05
1:H:405:ASP:OD1	1:H:406:GLN:NE2	1.89	1.05
1:C:260:LEU:O	1:C:264:VAL:HG23	1.56	1.05
1:F:279:GLY:HA2	1:F:324:PRO:HG2	1.33	1.05
1:D:7:THR:CA	1:D:24:THR:HG23	1.86	1.04
1:D:70:ASP:CG	1:D:72:TRP:O	1.96	1.04
1:F:427:ASP:O	1:F:428:ASP:HB2	1.57	1.04
1:C:258:GLU:O	1:C:259:ALA:HB3	1.58	1.03
1:D:32:PHE:CE2	1:D:412:THR:N	2.24	1.03
1:F:97:GLU:CD	1:F:456:VAL:HG12	1.78	1.03
1:D:70:ASP:OD2	1:D:73:MET:CB	2.07	1.02
1:A:210:SER:OG	1:A:254:SER:HA	1.56	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:323:GLU:CB	1:C:324:PRO:CD	2.36	1.02
1:D:70:ASP:OD2	1:D:73:MET:HB2	1.59	1.02
1:F:322:GLY:CA	1:F:326:ALA:CB	2.38	1.02
1:C:6:ILE:HG21	1:C:25:VAL:HG23	1.03	1.02
1:E:323:GLU:HB3	1:E:324:PRO:HD2	1.41	1.01
1:E:236:LEU:O	1:E:240:VAL:HG23	1.60	1.01
1:H:381:GLU:O	1:H:382:LYS:NZ	1.91	1.01
1:D:6:ILE:HA	1:D:50:VAL:CG1	1.91	1.01
1:G:262:THR:O	1:G:266:LEU:HD21	1.60	1.01
1:C:227:SER:OG	1:C:228:TYR:CA	2.08	1.00
1:D:70:ASP:O	1:D:72:TRP:O	1.78	1.00
1:H:255:VAL:HB	1:H:278:LEU:CD1	1.89	1.00
1:A:240:VAL:HG21	1:A:266:LEU:HG	1.39	1.00
1:H:145:GLY:HA2	1:H:179:GLY:CA	1.91	1.00
1:B:391:SER:HB2	1:B:394:THR:CB	1.83	1.00
1:B:391:SER:HB2	1:B:394:THR:HB	1.01	1.00
1:F:73:MET:HA	1:F:76:ALA:HB1	1.39	1.00
1:D:6:ILE:O	1:D:24:THR:HG22	1.61	1.00
1:H:76:ALA:HB3	1:H:77:GLY:HA2	1.44	1.00
1:D:381:GLU:OE2	1:D:381:GLU:N	1.95	0.99
1:B:391:SER:HB3	1:B:394:THR:HB	1.00	0.99
1:H:6:ILE:CG2	1:H:25:VAL:HG12	1.91	0.99
1:H:225:ASP:OD2	1:H:226:ARG:NH2	1.94	0.99
1:E:214:VAL:HG13	1:E:215:PHE:HD1	1.23	0.99
1:A:253:HIS:ND1	1:A:273:HIS:ND1	2.10	0.99
1:B:22:ALA:O	1:B:37:PRO:HB3	1.61	0.99
1:A:251:LEU:HD11	1:A:270:VAL:HG11	1.43	0.99
1:A:251:LEU:CD1	1:A:270:VAL:HG11	1.92	0.99
1:H:145:GLY:N	1:H:179:GLY:HA2	1.77	0.99
1:F:253:HIS:CE1	1:F:273:HIS:CD2	2.51	0.99
1:G:6:ILE:HG12	1:G:9:VAL:HG22	1.41	0.99
1:A:13:ASP:HA	1:A:410:VAL:HG21	1.45	0.98
1:E:226:ARG:HD2	1:E:228:TYR:HE2	1.24	0.98
1:E:252:THR:HG22	1:E:271:LEU:HA	1.44	0.98
1:A:67:HIS:HE1	1:A:344:ASP:OD1	1.46	0.98
1:H:253:HIS:HD2	1:H:273:HIS:CE1	1.72	0.98
1:F:257:VAL:HG23	1:F:277:THR:CG2	1.94	0.98
1:F:113:THR:HG23	1:F:206:LYS:HD3	1.42	0.98
1:H:6:ILE:HB	1:H:25:VAL:HG13	1.00	0.98
1:C:323:GLU:HB3	1:C:324:PRO:HD2	1.41	0.97
1:A:275:ASN:OD1	1:A:276:TYR:N	1.96	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:145:GLY:H	1:H:179:GLY:CA	1.77	0.97
1:C:323:GLU:HB2	1:C:324:PRO:HD2	1.47	0.97
1:D:70:ASP:O	1:D:71:ALA:C	2.02	0.97
1:A:271:LEU:CD1	1:A:296:TRP:O	2.12	0.96
1:F:264:VAL:HG13	1:F:293:SER:HB2	1.45	0.96
1:H:253:HIS:CD2	1:H:273:HIS:HE2	1.74	0.96
1:B:390:ILE:C	1:B:392:ALA:HB3	1.84	0.96
1:C:272:ILE:HG22	1:C:273:HIS:CD2	2.01	0.96
1:F:264:VAL:CG1	1:F:293:SER:CB	2.42	0.96
1:G:68:LEU:CB	1:G:95:ILE:HG23	1.95	0.96
1:A:271:LEU:HD12	1:A:296:TRP:O	1.62	0.96
1:D:190:VAL:O	1:D:194:VAL:HG23	1.66	0.96
1:C:6:ILE:CG2	1:C:25:VAL:HG23	1.94	0.96
1:H:31:ARG:NH1	1:H:415:LEU:HD11	1.79	0.96
1:H:322:GLY:HA2	1:H:326:ALA:HB2	1.48	0.96
1:B:409:SER:HB2	1:B:410:VAL:HA	1.47	0.96
1:A:4:ILE:O	1:A:27:VAL:HG23	1.66	0.96
1:B:307:ARG:HH21	1:B:322:GLY:HA2	1.29	0.96
1:D:32:PHE:CZ	1:D:414:LYS:HB2	2.00	0.95
1:A:240:VAL:HG21	1:A:266:LEU:CG	1.94	0.95
1:F:217:LEU:HD12	1:F:226:ARG:HH22	1.28	0.95
1:D:25:VAL:HG12	1:D:35:VAL:HG12	1.48	0.95
1:H:206:LYS:HE3	1:H:272:ILE:CG2	1.96	0.95
1:A:350:LYS:O	1:A:354:ALA:N	1.99	0.95
1:D:301:THR:OG1	1:D:379:MET:CE	2.14	0.95
1:D:350:LYS:HE3	1:D:460:PRO:HB3	1.45	0.95
1:G:68:LEU:HB3	1:G:95:ILE:CG2	1.97	0.95
1:B:389:ALA:C	1:B:392:ALA:CB	2.35	0.94
1:A:40:SER:O	1:A:41:THR:HG22	1.65	0.94
1:C:6:ILE:CG2	1:C:25:VAL:H	1.78	0.94
1:D:421:LEU:HB3	1:D:434:SER:O	1.66	0.94
1:F:322:GLY:HA2	1:F:326:ALA:HB2	0.96	0.94
1:F:453:THR:O	1:F:455:LEU:HD21	1.66	0.94
1:H:107:VAL:HG23	1:H:372:HIS:CE1	2.02	0.94
1:H:253:HIS:NE2	1:H:273:HIS:NE2	2.13	0.94
1:C:304:ASP:HA	1:C:307:ARG:CG	1.98	0.94
1:E:233:ARG:NH2	1:E:265:GLU:OE1	2.00	0.94
1:E:253:HIS:ND1	1:E:273:HIS:CD2	2.35	0.94
1:F:322:GLY:HA2	1:F:326:ALA:HB3	1.47	0.94
1:F:217:LEU:CD1	1:F:226:ARG:NH2	2.30	0.94
1:C:144:VAL:HA	1:C:178:VAL:HG11	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:261:ASP:OD1	1:G:289:LYS:NZ	2.01	0.93
1:F:61:TYR:HB2	1:F:107:VAL:HG12	1.48	0.93
1:F:113:THR:CG2	1:F:206:LYS:HD3	1.99	0.93
1:H:146:MET:CE	1:H:208:ALA:HB2	1.98	0.93
1:H:145:GLY:CA	1:H:179:GLY:CA	2.47	0.93
1:E:423:GLN:OE1	1:E:431:ASN:OD1	1.86	0.93
1:A:206:LYS:NZ	3:A:603:HOH:O	1.98	0.93
1:E:321:ALA:O	1:E:326:ALA:HB2	1.69	0.92
1:B:388:GLU:O	1:B:390:ILE:N	2.02	0.92
1:G:262:THR:O	1:G:266:LEU:CD2	2.16	0.92
1:C:6:ILE:HG23	1:C:25:VAL:H	1.34	0.92
1:F:217:LEU:HD13	1:F:226:ARG:HH22	1.35	0.92
1:H:343:THR:HG23	1:H:375:TRP:HD1	1.35	0.92
1:H:225:ASP:HB2	1:H:226:ARG:HE	1.34	0.92
1:B:391:SER:N	1:B:392:ALA:HB3	1.83	0.92
1:A:67:HIS:HA	1:A:112:ASP:OD1	1.69	0.92
1:H:439:PHE:CZ	1:H:444:ALA:HB2	2.04	0.92
1:A:251:LEU:HD12	1:A:270:VAL:HB	0.93	0.92
1:G:272:ILE:HG23	1:G:342:ASN:OD1	1.68	0.92
1:C:259:ALA:O	1:C:263:SER:OG	1.85	0.92
1:A:206:LYS:HE3	1:A:272:ILE:HD11	1.49	0.92
1:H:142:THR:HG22	1:H:143:ILE:O	1.70	0.91
1:C:227:SER:HG	1:C:228:TYR:HA	1.23	0.91
1:H:6:ILE:CD1	1:H:25:VAL:HG11	1.99	0.91
1:A:235:VAL:O	1:A:238:VAL:CG1	2.18	0.91
1:B:299:LEU:CD2	1:B:329:GLU:HB3	1.99	0.91
1:F:217:LEU:HD13	1:F:226:ARG:NH2	1.84	0.91
1:H:203:ASP:O	1:H:248:VAL:HG13	1.68	0.91
1:A:75:MET:HE1	1:A:212:HIS:HE1	1.34	0.90
1:B:225:ASP:OD1	1:B:226:ARG:N	2.03	0.90
1:D:328:ASN:O	1:D:331:ASN:N	2.02	0.90
1:B:388:GLU:N	1:B:388:GLU:OE1	2.04	0.90
1:D:219:ASP:HB3	1:D:222:VAL:CG1	2.01	0.90
1:F:97:GLU:CD	1:F:456:VAL:CG1	2.38	0.90
1:F:253:HIS:ND1	1:F:273:HIS:HD2	1.69	0.90
1:E:253:HIS:ND1	1:E:273:HIS:HD2	1.67	0.90
1:D:32:PHE:HE2	1:D:412:THR:H	0.90	0.90
1:A:236:LEU:HB3	1:A:266:LEU:HD22	1.54	0.90
1:D:279:GLY:H	1:D:325:TYR:HE1	1.19	0.90
1:D:411:GLU:O	1:D:412:THR:HB	1.71	0.89
1:F:275:ASN:O	1:F:325:TYR:CD1	2.23	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:68:LEU:HD13	1:H:95:ILE:CG2	2.02	0.89
1:E:181:GLN:O	1:E:184:LEU:N	2.05	0.89
1:A:194:VAL:HG21	1:A:239:MET:HE3	1.52	0.89
1:A:209:VAL:HG21	1:A:252:THR:OG1	1.72	0.89
1:H:34:THR:HG22	1:H:41:THR:HG21	1.53	0.89
1:D:7:THR:HA	1:D:24:THR:HG23	0.90	0.89
1:G:65:ASN:OD1	1:G:113:THR:OG1	1.89	0.89
1:A:350:LYS:HA	1:A:353:LEU:HB2	1.54	0.89
1:A:459:HIS:CB	1:A:460:PRO:HA	2.01	0.89
1:H:225:ASP:HB2	1:H:226:ARG:NE	1.87	0.89
1:A:191:ARG:HD2	1:A:238:VAL:CG2	2.02	0.89
1:A:75:MET:HE2	1:A:212:HIS:CE1	2.08	0.89
1:H:6:ILE:CG1	1:H:25:VAL:HG13	2.02	0.89
1:A:13:ASP:HA	1:A:410:VAL:CG2	2.02	0.89
1:E:220:ARG:O	1:E:221:SER:OG	1.89	0.89
1:F:257:VAL:HG23	1:F:277:THR:HG23	1.53	0.89
1:H:6:ILE:CG1	1:H:25:VAL:CG1	2.50	0.89
1:D:6:ILE:C	1:D:24:THR:HG22	1.93	0.88
1:A:71:ALA:O	1:A:74:PHE:HB2	1.74	0.88
1:A:348:PRO:HG3	1:A:364:ARG:HH12	1.37	0.88
1:H:360:GLU:OE1	1:H:361:ARG:NE	2.07	0.88
1:B:72:TRP:O	1:B:76:ALA:HB2	1.73	0.88
1:G:360:GLU:O	1:G:364:ARG:HG3	1.72	0.88
1:D:219:ASP:CB	1:D:222:VAL:HG11	2.02	0.88
1:F:158:GLY:HA2	1:F:161:ALA:HB3	1.56	0.88
1:D:387:LEU:O	1:D:391:SER:N	2.05	0.88
1:D:148:GLY:O	1:D:154:PHE:HD2	1.56	0.88
1:F:253:HIS:ND1	1:F:273:HIS:CD2	2.42	0.88
1:H:323:GLU:HB3	1:H:324:PRO:HD3	1.54	0.88
1:C:113:THR:HB	1:C:206:LYS:HD2	1.56	0.88
1:G:92:VAL:O	1:G:96:GLU:HG3	1.72	0.88
1:C:78:PRO:O	1:C:352:HIS:NE2	2.06	0.88
1:D:258:GLU:O	1:D:260:LEU:N	2.07	0.88
1:B:69:LEU:HD13	1:B:95:ILE:CG1	2.04	0.87
1:D:68:LEU:CD1	1:D:95:ILE:HG23	2.04	0.87
1:B:296:TRP:HZ3	1:B:396:ASN:HB3	1.39	0.87
1:H:72:TRP:CZ3	1:H:75:MET:HE1	2.09	0.87
1:H:206:LYS:NZ	1:H:272:ILE:HG21	1.88	0.87
1:G:126:ARG:HA	1:G:131:ILE:HD12	1.57	0.87
1:D:303:HIS:HB2	1:D:306:HIS:HB2	1.57	0.87
1:F:277:THR:N	1:F:325:TYR:HE1	1.71	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:70:ASP:OD1	1:A:71:ALA:N	2.08	0.87
1:A:287:ILE:C	1:A:291:VAL:HG23	1.94	0.87
1:C:254:SER:OG	1:C:260:LEU:CD1	2.22	0.87
1:H:145:GLY:N	1:H:179:GLY:CA	2.35	0.87
1:H:353:LEU:O	1:H:360:GLU:OE2	1.91	0.87
1:H:70:ASP:O	1:H:74:PHE:CE1	2.28	0.87
1:A:240:VAL:HG21	1:A:266:LEU:CD1	2.03	0.86
1:F:114:HIS:O	1:F:115:ASN:ND2	2.08	0.86
1:H:313:VAL:HG11	1:H:357:SER:CB	2.03	0.86
1:E:378:SER:O	1:E:382:LYS:HG2	1.75	0.86
1:D:30:ASP:OD1	1:D:31:ARG:N	2.08	0.86
1:F:251:LEU:CD2	1:F:270:VAL:HB	2.04	0.86
1:H:66:VAL:O	1:H:67:HIS:HD2	1.58	0.86
1:A:250:VAL:H	1:A:269:ASP:HB2	1.40	0.86
1:B:66:VAL:HG21	1:B:110:VAL:HG21	1.55	0.86
1:C:6:ILE:HG22	1:C:25:VAL:C	1.95	0.86
1:A:30:ASP:OD1	1:A:31:ARG:N	2.08	0.86
1:G:97:GLU:OE2	1:G:457:THR:OG1	1.93	0.86
1:D:233:ARG:NH1	1:D:237:GLU:OE1	2.09	0.86
1:F:68:LEU:HD13	1:F:95:ILE:HG23	1.57	0.86
1:F:159:ARG:HD2	1:F:167:VAL:HG11	1.58	0.86
1:H:202:VAL:O	1:H:204:MET:N	2.07	0.86
1:A:253:HIS:ND1	1:A:273:HIS:CE1	2.43	0.85
1:D:279:GLY:N	1:D:325:TYR:HE1	1.74	0.85
1:G:260:LEU:O	1:G:264:VAL:HG23	1.76	0.85
1:G:275:ASN:O	1:G:328:ASN:ND2	2.08	0.85
1:A:13:ASP:C	1:A:410:VAL:HG23	1.95	0.85
1:E:282:ILE:HG13	1:E:328:ASN:HD21	1.41	0.85
1:B:252:THR:HG21	1:B:263:SER:HB3	1.59	0.85
1:F:66:VAL:HG21	1:F:110:VAL:HG11	1.58	0.85
1:F:73:MET:CA	1:F:76:ALA:HB1	2.06	0.85
1:D:388:GLU:HA	1:D:391:SER:OG	1.77	0.85
1:E:153:ASP:HA	1:E:212:HIS:O	1.77	0.84
1:F:75:MET:N	1:F:76:ALA:HB3	1.92	0.84
1:A:175:GLU:OE1	1:A:181:GLN:OE1	1.95	0.84
1:A:235:VAL:C	1:A:238:VAL:HG12	1.97	0.84
1:C:323:GLU:HB3	1:C:324:PRO:CD	2.02	0.84
1:A:215:PHE:H	1:A:216:THR:HB	1.43	0.84
1:B:112:ASP:O	1:B:140:ALA:CB	2.25	0.84
1:B:153:ASP:O	1:B:212:HIS:ND1	2.09	0.84
1:D:301:THR:OG1	1:D:379:MET:HE3	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:32:PHE:HZ	1:D:414:LYS:HB2	1.42	0.83
1:F:255:VAL:HB	1:F:278:LEU:CD2	2.08	0.83
1:H:68:LEU:HD13	1:H:95:ILE:HG23	1.60	0.83
1:H:72:TRP:CE3	1:H:75:MET:CE	2.61	0.83
1:C:30:ASP:OD1	1:C:31:ARG:N	2.10	0.83
1:B:395:ILE:O	1:B:399[B]:ARG:N	2.12	0.83
1:A:237:GLU:HA	1:A:266:LEU:HD11	1.58	0.83
1:A:446:ASP:O	1:A:450:LEU:HD13	1.78	0.83
1:F:322:GLY:O	1:F:323:GLU:CB	2.23	0.83
1:F:61:TYR:OH	1:F:432:LEU:HD22	1.78	0.83
1:A:86:ARG:NH2	1:F:88:GLU:O	2.12	0.83
1:H:66:VAL:C	1:H:67:HIS:HD2	1.82	0.83
1:D:31:ARG:NH2	1:D:406:GLN:OE1	2.11	0.83
1:D:38:SER:OG	3:D:501:HOH:O	1.64	0.83
1:H:313:VAL:HG11	1:H:357:SER:HB3	1.61	0.83
1:E:226:ARG:HD2	1:E:228:TYR:CE2	2.12	0.83
1:C:254:SER:OG	1:C:260:LEU:HD12	1.79	0.83
1:H:282:ILE:HG13	1:H:328:ASN:OD1	1.78	0.83
1:B:301:THR:CG2	1:B:379:MET:CE	2.57	0.82
1:F:251:LEU:HD22	1:F:270:VAL:HB	1.58	0.82
1:H:323:GLU:HB3	1:H:324:PRO:CD	2.09	0.82
1:F:66:VAL:HG21	1:F:110:VAL:CG1	2.09	0.82
1:H:207:ILE:HD11	1:H:239:MET:SD	2.19	0.82
1:H:275:ASN:OD1	1:H:329:GLU:HG3	1.79	0.82
1:B:385:SER:HB3	1:B:387:LEU:O	1.79	0.82
1:F:281:GLU:N	1:F:281:GLU:OE1	2.12	0.82
1:E:261:ASP:O	1:E:265:GLU:HG3	1.80	0.82
1:A:271:LEU:CD1	1:A:297:ALA:HA	2.09	0.82
1:E:372:HIS:O	1:E:376:THR:HG23	1.79	0.82
1:F:253:HIS:HE1	1:F:273:HIS:NE2	1.77	0.82
1:H:220:ARG:O	1:H:221:SER:OG	1.95	0.82
1:H:313:VAL:HG21	1:H:357:SER:OG	1.80	0.82
1:A:210:SER:HG	1:A:254:SER:HA	1.43	0.82
1:F:428:ASP:OD2	1:F:430:ARG:CD	2.27	0.82
1:G:4:ILE:HD12	1:G:5:ALA:N	1.95	0.82
1:G:97:GLU:O	1:G:101:LEU:CD1	2.28	0.82
1:A:12:ILE:HD12	1:A:56:TRP:HD1	1.42	0.82
1:D:6:ILE:O	1:D:24:THR:CG2	2.27	0.82
1:B:113:THR:HA	1:B:140:ALA:CB	2.10	0.81
1:F:253:HIS:CE1	1:F:273:HIS:NE2	2.48	0.81
1:H:23:THR:HG22	1:H:37:PRO:HG3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:72:TRP:CZ3	1:H:75:MET:CE	2.63	0.81
1:H:143:ILE:HG21	1:H:146:MET:HE2	1.62	0.81
1:A:251:LEU:HD13	1:A:270:VAL:HB	1.63	0.81
1:F:454:PRO:C	1:F:455:LEU:HD23	2.01	0.81
1:B:14:GLY:O	1:B:391:SER:OG	1.98	0.81
1:F:96:GLU:OE2	1:F:126:ARG:NH1	2.14	0.81
1:B:253:HIS:CD2	1:B:273:HIS:NE2	2.49	0.81
1:D:215:PHE:O	1:D:218:VAL:HG13	1.80	0.81
1:B:244:ARG:NH2	1:B:269:ASP:OD1	2.14	0.81
1:A:12:ILE:HD12	1:A:56:TRP:CD1	2.16	0.81
1:E:153:ASP:CB	1:E:212:HIS:HB3	2.10	0.81
1:E:214:VAL:HG13	1:E:215:PHE:CD1	2.14	0.81
1:C:307:ARG:NH2	1:C:311:GLU:OE2	2.14	0.81
1:B:73:MET:O	1:B:77:GLY:HA2	1.80	0.81
1:A:67:HIS:CE1	1:A:344:ASP:OD1	2.32	0.80
1:A:445:VAL:O	1:A:447:ARG:NH1	2.12	0.80
1:B:296:TRP:CZ3	1:B:396:ASN:HB3	2.17	0.80
1:D:217:LEU:HD13	1:D:226:ARG:NH1	1.95	0.80
1:H:204:MET:CA	1:H:248:VAL:CG1	2.56	0.80
1:H:357:SER:O	1:H:360:GLU:N	2.14	0.80
1:A:233:ARG:NH1	1:A:265:GLU:OE1	2.14	0.80
1:D:191:ARG:NH1	1:D:242:GLU:OE2	2.14	0.80
1:D:70:ASP:OD2	1:D:73:MET:HB3	1.80	0.80
1:F:72:TRP:O	1:F:76:ALA:HB1	1.81	0.80
1:B:307:ARG:NH2	1:B:322:GLY:CA	2.45	0.80
1:B:307:ARG:NH2	1:B:322:GLY:HA2	1.97	0.80
1:D:301:THR:HG21	1:D:378:SER:CB	2.12	0.80
1:D:220:ARG:HH11	1:D:220:ARG:HG3	1.47	0.79
1:E:364:ARG:NH1	1:E:367:THR:OG1	2.16	0.79
1:G:275:ASN:ND2	1:G:276:TYR:HD1	1.81	0.79
1:E:53:ASN:O	1:E:55:ARG:NH1	2.14	0.79
1:E:124:ARG:NH1	1:E:203:ASP:OD1	2.15	0.79
1:A:191:ARG:CZ	1:A:238:VAL:HG22	2.12	0.79
1:D:272:ILE:O	1:D:273:HIS:HB2	1.83	0.79
1:H:252:THR:O	1:H:272:ILE:HB	1.82	0.79
1:H:278:LEU:CA	1:H:325:TYR:OH	2.31	0.78
1:B:395:ILE:O	1:B:399[A]:ARG:N	2.12	0.78
1:E:257:VAL:HG22	1:E:277:THR:HG22	1.65	0.78
1:E:385:SER:O	1:E:388:GLU:N	2.16	0.78
1:E:179:GLY:C	1:E:180:HIS:ND1	2.37	0.78
1:B:303:HIS:NE2	1:B:377:GLN:HG2	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:342:ASN:O	1:H:375:TRP:NE1	2.16	0.78
1:E:224:PHE:CE1	1:E:278:LEU:CD1	2.65	0.78
1:B:69:LEU:HD13	1:B:95:ILE:HG12	1.66	0.78
1:G:296:TRP:HZ3	1:G:396:ASN:HD22	1.32	0.78
1:C:258:GLU:O	1:C:259:ALA:CB	2.27	0.78
1:D:7:THR:CA	1:D:24:THR:CG2	2.54	0.78
1:D:222:VAL:HG22	1:D:223:GLY:N	1.97	0.78
1:H:204:MET:HB2	1:H:249:PRO:HG2	1.65	0.78
1:D:68:LEU:HD13	1:D:95:ILE:HG23	1.64	0.78
1:D:337:ALA:O	1:D:338:LYS:HD3	1.83	0.78
1:H:66:VAL:C	1:H:67:HIS:CD2	2.57	0.78
1:C:217:LEU:HD23	1:C:224:PHE:HB3	1.66	0.77
1:H:143:ILE:HG21	1:H:146:MET:CE	2.13	0.77
1:A:91:TYR:O	1:A:95:ILE:HG13	1.85	0.77
1:A:206:LYS:HE3	1:A:272:ILE:CD1	2.14	0.77
1:D:75:MET:HG2	1:D:215:PHE:CE1	2.18	0.77
1:H:225:ASP:C	1:H:226:ARG:HG2	2.05	0.77
1:A:215:PHE:N	1:A:216:THR:HB	2.00	0.77
1:A:409:SER:OG	1:A:414:LYS:NZ	2.17	0.77
1:D:387:LEU:O	1:D:390:ILE:HB	1.85	0.77
1:E:323:GLU:HB3	1:E:324:PRO:CD	2.14	0.77
1:B:307:ARG:HH21	1:B:322:GLY:CA	1.97	0.77
1:B:394:THR:HG22	1:B:395:ILE:N	1.98	0.77
1:G:204:MET:HA	1:G:248:VAL:HB	1.65	0.77
1:F:428:ASP:OD2	1:F:430:ARG:HD2	1.85	0.77
1:E:257:VAL:HG22	1:E:277:THR:CG2	2.15	0.76
1:G:91:TYR:O	1:G:95:ILE:HG13	1.85	0.76
1:B:210:SER:HB2	1:B:255:VAL:CG2	2.15	0.76
1:D:350:LYS:HD3	1:D:458:ALA:O	1.85	0.76
1:A:66:VAL:HA	1:A:345:ALA:HB3	1.68	0.76
1:C:62:VAL:HG13	1:C:109:THR:HB	1.66	0.76
1:G:102:ALA:HB1	1:G:107:VAL:HB	1.65	0.76
1:H:406:GLN:HB2	1:H:415:LEU:HD13	1.67	0.76
1:G:250:VAL:CG1	1:G:268:ALA:HA	2.15	0.76
1:G:266:LEU:HD22	1:G:266:LEU:H	1.51	0.76
1:H:30:ASP:H	1:H:442:GLY:HA3	1.49	0.76
1:B:385:SER:C	1:B:387:LEU:O	2.24	0.76
1:D:279:GLY:N	1:D:325:TYR:CE1	2.53	0.76
1:F:255:VAL:O	1:F:278:LEU:HD23	1.86	0.76
1:D:303:HIS:HB2	1:D:306:HIS:CB	2.16	0.76
1:H:260:LEU:HD12	1:H:271:LEU:HD23	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:225:ASP:O	1:E:226:ARG:HB3	1.86	0.76
1:A:240:VAL:CG2	1:A:266:LEU:HG	2.16	0.76
1:A:254:SER:CB	1:A:259:ALA:HB1	2.14	0.76
1:G:64:GLY:HA2	1:G:111:PHE:HD2	1.51	0.76
1:F:273:HIS:ND1	1:F:276:TYR:CD2	2.53	0.75
1:H:41:THR:H	1:H:42:PRO:HA	1.50	0.75
1:E:264:VAL:CG1	1:E:293:SER:CB	2.64	0.75
1:B:391:SER:HB2	1:B:395:ILE:H	1.51	0.75
1:D:301:THR:HG21	1:D:378:SER:HB2	1.66	0.75
1:D:301:THR:CG2	1:D:378:SER:CB	2.64	0.75
1:D:386:PRO:O	1:D:390:ILE:HG13	1.86	0.75
1:F:429:ILE:HD11	1:F:432:LEU:HD11	1.66	0.75
1:G:323:GLU:HB2	1:G:324:PRO:CD	2.16	0.75
1:G:357:SER:OG	1:G:360:GLU:HG3	1.85	0.75
1:G:275:ASN:ND2	1:G:276:TYR:CD1	2.55	0.75
1:E:224:PHE:CG	1:E:278:LEU:CD1	2.70	0.75
1:F:65:ASN:OD1	1:F:113:THR:HB	1.86	0.75
1:F:74:PHE:O	1:F:154:PHE:HB3	1.85	0.75
1:A:125:ASP:HB2	1:A:126:ARG:HH12	1.52	0.75
1:A:158:GLY:HA2	1:A:161:ALA:HB3	1.69	0.75
1:D:32:PHE:CD2	1:D:412:THR:HA	2.22	0.75
1:E:224:PHE:CG	1:E:278:LEU:HD11	2.19	0.75
1:A:75:MET:SD	1:A:215:PHE:CD2	2.79	0.75
1:D:251:LEU:HD22	1:D:270:VAL:HB	1.67	0.75
1:A:126:ARG:HG2	1:A:126:ARG:HH11	1.51	0.74
1:B:395:ILE:HG13	1:B:396:ASN:OD1	1.87	0.74
1:D:113:THR:HB	1:D:206:LYS:HD2	1.69	0.74
1:B:399[B]:ARG:HH11	1:B:399[B]:ARG:HG3	1.53	0.74
1:E:43:VAL:HG22	1:E:45:GLU:H	1.52	0.74
1:F:136:ARG:NH2	1:F:417:ASP:OD2	2.20	0.74
1:F:225:ASP:O	1:F:226:ARG:HB2	1.84	0.74
1:H:251:LEU:HD22	1:H:270:VAL:HB	1.67	0.74
1:G:24:THR:HB	1:G:41:THR:HG21	1.69	0.74
1:H:343:THR:HG23	1:H:375:TRP:CD1	2.20	0.74
1:E:279:GLY:N	1:E:325:TYR:CE1	2.55	0.74
1:H:210:SER:OG	1:H:255:VAL:HG22	1.86	0.74
1:E:24:THR:HG21	1:E:40:SER:HB2	1.69	0.74
1:E:217:LEU:HD11	1:E:223:GLY:O	1.87	0.74
1:D:30:ASP:HB2	1:D:441:ALA:O	1.86	0.74
1:H:214:VAL:O	1:H:217:LEU:HB3	1.88	0.74
1:D:25:VAL:HG12	1:D:35:VAL:CG1	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:385:SER:HB3	1:D:388:GLU:HG2	1.68	0.74
1:G:3:THR:HG23	1:G:47:ALA:HA	1.67	0.74
1:G:250:VAL:HG13	1:G:268:ALA:HA	1.68	0.74
1:H:6:ILE:CD1	1:H:25:VAL:CG1	2.65	0.74
1:B:40:SER:O	1:B:41:THR:OG1	2.05	0.74
1:D:217:LEU:HD13	1:D:226:ARG:HH12	1.52	0.74
1:H:260:LEU:HD12	1:H:271:LEU:CD2	2.16	0.74
1:D:25:VAL:CG1	1:D:35:VAL:HG12	2.17	0.74
1:D:187:ARG:HB3	1:D:187:ARG:NH1	2.02	0.74
1:D:278:LEU:HA	1:D:325:TYR:CE1	2.23	0.74
1:G:129:ALA:HB3	1:G:131:ILE:HG13	1.69	0.74
1:E:157:ALA:O	1:E:159:ARG:N	2.20	0.74
1:B:391:SER:CA	1:B:394:THR:HB	2.16	0.74
1:C:6:ILE:CG2	1:C:25:VAL:N	2.51	0.74
1:D:84:LEU:HD23	1:D:91:TYR:CZ	2.23	0.73
1:D:328:ASN:O	1:D:331:ASN:HB2	1.87	0.73
1:D:436:THR:O	1:D:447:ARG:NH2	2.21	0.73
1:H:107:VAL:CG2	1:H:372:HIS:CE1	2.70	0.73
1:E:207:ILE:HD12	1:E:239:MET:SD	2.28	0.73
1:B:395:ILE:HD12	1:B:399[B]:ARG:NH1	2.02	0.73
1:D:84:LEU:HD22	1:D:170:ILE:CG2	2.17	0.73
1:H:6:ILE:HD12	1:H:25:VAL:CG1	2.10	0.73
1:C:12:ILE:HG12	1:C:19:PRO:HB3	1.70	0.73
1:D:7:THR:HG22	1:D:24:THR:HG21	1.69	0.73
1:A:438:VAL:HG23	1:A:447:ARG:HD3	1.69	0.73
1:B:92:VAL:O	1:B:96:GLU:HG3	1.89	0.73
1:D:350:LYS:HE3	1:D:460:PRO:CB	2.17	0.73
1:C:387:LEU:HD21	1:C:426:VAL:HG22	1.69	0.73
1:H:191:ARG:NH1	1:H:241:GLU:OE2	2.22	0.73
1:C:6:ILE:O	1:C:24:THR:CG2	2.32	0.73
1:H:136:ARG:HH12	1:H:417:ASP:HB3	1.52	0.73
1:A:271:LEU:HD11	1:A:296:TRP:O	1.89	0.73
1:F:66:VAL:CG2	1:F:110:VAL:CG1	2.67	0.73
1:G:6:ILE:HD11	1:G:9:VAL:CG1	2.18	0.73
1:E:277:THR:CB	1:E:280:GLN:O	2.37	0.73
1:D:70:ASP:OD1	1:D:72:TRP:O	2.04	0.73
1:F:264:VAL:HG11	1:F:293:SER:HB3	1.71	0.73
1:F:278:LEU:H	1:F:325:TYR:HE1	1.36	0.73
1:A:11:LEU:HD21	1:A:13:ASP:HB3	1.70	0.72
1:F:97:GLU:OE2	1:F:456:VAL:HG12	1.89	0.72
1:E:148:GLY:N	1:E:175:GLU:OE2	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:423:GLN:CD	1:E:431:ASN:OD1	2.27	0.72
1:G:252:THR:OG1	1:G:263:SER:OG	2.05	0.72
1:A:282:ILE:HG23	1:A:328:ASN:HD21	1.52	0.72
1:C:254:SER:OG	1:C:260:LEU:HD13	1.89	0.72
1:F:126:ARG:NH1	1:F:132:SER:OG	2.22	0.72
1:A:203:ASP:OD1	3:A:602:HOH:O	2.08	0.72
1:B:112:ASP:O	1:B:140:ALA:HB3	1.87	0.72
1:H:175:GLU:O	1:H:178:VAL:HG22	1.88	0.72
1:D:142:THR:OG1	1:D:174:PHE:O	2.06	0.72
1:A:38:SER:OG	1:A:41:THR:N	2.23	0.72
1:A:191:ARG:CD	1:A:238:VAL:CG2	2.68	0.72
1:F:207:ILE:HG22	1:F:251:LEU:O	1.89	0.72
1:E:284:ASN:O	1:E:285:TYR:CD2	2.42	0.72
1:A:254:SER:HB2	1:A:259:ALA:CB	2.19	0.72
1:A:254:SER:HB2	1:A:259:ALA:HB1	1.69	0.72
1:C:272:ILE:HG22	1:C:273:HIS:HD2	1.53	0.72
1:E:179:GLY:O	1:E:180:HIS:ND1	2.23	0.72
1:B:253:HIS:NE2	1:B:273:HIS:NE2	2.37	0.72
1:C:6:ILE:CG2	1:C:25:VAL:CG2	2.60	0.72
1:C:28:GLU:O	1:C:30:ASP:O	2.08	0.72
1:B:69:LEU:HD13	1:B:95:ILE:HG13	1.70	0.72
1:C:319:ALA:HB1	1:C:323:GLU:OE1	1.88	0.72
1:H:72:TRP:CE3	1:H:75:MET:HE2	2.23	0.72
1:C:224:PHE:CE1	1:C:325:TYR:OH	2.18	0.71
1:D:333:ILE:HD13	1:D:334:SER:H	1.55	0.71
1:F:182:LEU:HA	1:F:185:LEU:HD12	1.72	0.71
1:E:66:VAL:O	1:E:67:HIS:HD2	1.73	0.71
1:A:12:ILE:CD1	1:A:56:TRP:CD1	2.72	0.71
1:B:195:ARG:HG2	1:B:242:GLU:HG3	1.70	0.71
1:B:389:ALA:C	1:B:392:ALA:HB2	2.11	0.71
1:D:158:GLY:HA2	1:D:161:ALA:HB3	1.72	0.71
1:C:59:PRO:HB3	1:C:409:SER:HA	1.73	0.71
1:D:32:PHE:HE1	1:D:415:LEU:O	1.73	0.71
1:E:204:MET:HA	1:E:248:VAL:HB	1.73	0.71
1:A:194:VAL:HG21	1:A:239:MET:HE1	1.70	0.71
1:B:391:SER:HA	1:B:394:THR:N	2.05	0.71
1:D:114:HIS:ND1	1:D:143:ILE:HG13	2.05	0.71
1:E:275:ASN:HB3	1:E:299:LEU:HD12	1.71	0.71
1:A:113:THR:HB	1:A:206:LYS:HG3	1.71	0.71
1:F:67:HIS:N	1:F:345:ALA:O	2.22	0.71
1:F:113:THR:HG21	1:F:206:LYS:NZ	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:266:LEU:H	1:F:266:LEU:HD12	1.54	0.71
1:G:220:ARG:O	1:G:221:SER:OG	2.06	0.71
1:D:231:PHE:HB2	1:D:236:LEU:HD13	1.72	0.71
1:G:95:ILE:O	1:G:98:ALA:HB3	1.90	0.71
1:H:272:ILE:HG22	1:H:273:HIS:ND1	2.05	0.71
1:B:41:THR:H	1:B:42:PRO:HA	1.56	0.71
1:H:357:SER:O	1:H:360:GLU:CB	2.39	0.71
1:A:13:ASP:CA	1:A:410:VAL:HG23	2.20	0.71
1:F:281:GLU:C	1:F:283:PRO:HB3	2.10	0.71
1:G:4:ILE:HD12	1:G:5:ALA:H	1.54	0.71
1:H:31:ARG:NH1	1:H:415:LEU:CD1	2.54	0.71
1:A:409:SER:C	1:A:414:LYS:HZ1	1.94	0.70
1:B:178:VAL:HG12	1:B:179:GLY:H	1.56	0.70
1:D:195:ARG:HH11	1:D:195:ARG:HG3	1.56	0.70
1:G:6:ILE:O	1:G:24:THR:HG23	1.92	0.70
1:H:431:ASN:O	1:H:434:SER:OG	2.09	0.70
1:D:6:ILE:HA	1:D:50:VAL:HG11	1.71	0.70
1:F:277:THR:CG2	1:F:280:GLN:O	2.40	0.70
1:F:279:GLY:CA	1:F:324:PRO:HG2	2.19	0.70
1:F:313:VAL:HG21	1:F:360:GLU:OE2	1.91	0.70
1:C:158:GLY:HA2	1:C:161:ALA:HB3	1.72	0.70
1:F:277:THR:HG21	1:F:280:GLN:O	1.91	0.70
1:H:277:THR:HG21	1:H:282:ILE:HG12	1.74	0.70
1:H:293:SER:HB2	1:H:295:SER:OG	1.92	0.70
1:C:78:PRO:O	1:C:352:HIS:CD2	2.45	0.70
1:C:395:ILE:O	1:C:399[B]:ARG:HG2	1.92	0.70
1:F:277:THR:N	1:F:325:TYR:CE1	2.58	0.70
1:F:277:THR:HG22	1:F:280:GLN:HB2	1.74	0.70
1:G:323:GLU:HB2	1:G:324:PRO:HD3	1.73	0.70
1:H:416:ALA:HB3	1:H:442:GLY:H	1.55	0.70
1:E:277:THR:OG1	1:E:280:GLN:O	2.08	0.70
1:G:390:ILE:HG22	1:G:429:ILE:HD11	1.73	0.70
1:F:455:LEU:HD23	1:F:455:LEU:N	2.06	0.70
1:E:38:SER:OG	1:E:39:ASP:N	2.22	0.70
1:E:428:ASP:HB3	1:E:431:ASN:HD22	1.56	0.70
1:A:13:ASP:CA	1:A:410:VAL:CG2	2.69	0.70
1:C:235:VAL:O	1:C:239:MET:HG3	1.92	0.70
1:D:9:VAL:HG22	1:D:23:THR:O	1.91	0.70
1:G:343:THR:HG21	1:G:371:ASP:HB2	1.74	0.70
1:E:282:ILE:HG13	1:E:328:ASN:ND2	2.07	0.69
1:A:236:LEU:HB3	1:A:266:LEU:CD2	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:385:SER:O	1:B:387:LEU:O	2.09	0.69
1:D:133:GLN:OE1	1:D:450:LEU:HD21	1.92	0.69
1:H:232:SER:OG	1:H:235:VAL:HG23	1.92	0.69
1:A:303:HIS:HB2	1:A:374:HIS:CE1	2.26	0.69
1:B:340:LEU:CD1	1:B:397:VAL:HA	2.22	0.69
1:F:224:PHE:CE2	1:F:278:LEU:CD1	2.75	0.69
1:F:264:VAL:HG12	1:F:293:SER:HB2	1.72	0.69
1:G:127:ILE:O	1:G:130:GLY:N	2.20	0.69
1:H:328:ASN:HA	1:H:331:ASN:HB2	1.74	0.69
1:G:6:ILE:HG12	1:G:9:VAL:CG2	2.20	0.69
1:G:272:ILE:CG2	1:G:342:ASN:OD1	2.38	0.69
1:H:151:SER:OG	1:H:152:ALA:N	2.24	0.69
1:A:240:VAL:HG21	1:A:266:LEU:HD11	1.74	0.69
1:A:74:PHE:CZ	1:A:84:LEU:HD11	2.27	0.69
1:G:142:THR:HG22	1:G:197:TYR:OH	1.92	0.69
1:E:238:VAL:O	1:E:242:GLU:OE1	2.11	0.69
1:A:29:GLY:O	1:A:30:ASP:HB3	1.91	0.69
1:A:275:ASN:CG	1:A:276:TYR:H	1.95	0.69
1:F:264:VAL:CG1	1:F:293:SER:HB3	2.23	0.69
1:G:251:LEU:HD23	1:G:272:ILE:HD11	1.72	0.69
1:G:307:ARG:HG3	1:G:308:GLN:HG3	1.75	0.69
1:H:185:LEU:HD13	1:H:193:ARG:NH2	2.08	0.69
1:E:75:MET:CE	1:E:316:TRP:CH2	2.76	0.69
1:A:44:PRO:HB2	1:A:45:GLU:HG3	1.75	0.69
1:A:75:MET:HE3	1:A:212:HIS:CE1	2.26	0.69
1:A:210:SER:OG	1:A:254:SER:CA	2.36	0.69
1:B:399[B]:ARG:HG3	1:B:399[B]:ARG:NH1	2.08	0.69
1:A:288:ASP:HA	1:A:291:VAL:HB	1.74	0.69
1:B:69:LEU:CD1	1:B:95:ILE:HG13	2.23	0.69
1:B:341:LEU:HD12	1:B:393:ALA:HB2	1.75	0.69
1:G:67:HIS:HA	1:G:112:ASP:OD1	1.93	0.69
1:H:6:ILE:O	1:H:24:THR:HG23	1.93	0.69
1:E:65:ASN:O	1:E:66:VAL:HG23	1.93	0.68
1:A:14:GLY:O	1:A:15:LEU:HD23	1.93	0.68
1:A:66:VAL:HG11	1:A:368:ILE:HD11	1.73	0.68
1:D:301:THR:CG2	1:D:378:SER:HB3	2.21	0.68
1:H:407:ILE:HG22	1:H:408:GLY:N	2.08	0.68
1:C:364:ARG:NH1	1:C:367:THR:OG1	2.26	0.68
1:H:255:VAL:C	1:H:278:LEU:HD12	2.12	0.68
1:E:191:ARG:NH1	1:E:238:VAL:HG22	2.08	0.68
1:E:264:VAL:CG1	1:E:293:SER:HB2	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:363:ASP:OD1	1:A:370:ASN:OD1	2.11	0.68
1:F:268:ALA:O	1:F:295:SER:OG	2.11	0.68
1:G:273:HIS:NE2	3:G:501:HOH:O	2.26	0.68
1:A:207:ILE:HG22	1:A:252:THR:HA	1.74	0.68
1:A:261:ASP:OD1	1:A:289:LYS:NZ	2.21	0.68
1:B:121:LEU:HD22	1:B:124:ARG:HH21	1.57	0.68
1:D:261:ASP:HB2	1:D:286:LEU:HD11	1.75	0.68
1:H:64:GLY:HA3	1:H:340:LEU:CD2	2.23	0.68
1:C:323:GLU:HB2	1:C:324:PRO:CD	2.13	0.68
1:F:129:ALA:HB1	1:H:92:VAL:HG11	1.75	0.68
1:F:322:GLY:CA	1:F:326:ALA:HB3	2.18	0.68
1:H:357:SER:O	1:H:360:GLU:HB2	1.93	0.68
1:A:3:THR:O	1:A:47:ALA:HB1	1.93	0.68
1:B:111:PHE:HD2	1:B:204:MET:CE	2.06	0.68
1:F:75:MET:H	1:F:76:ALA:HB3	1.56	0.68
1:G:179:GLY:O	1:G:182:LEU:HD12	1.93	0.68
1:B:112:ASP:O	1:B:140:ALA:HB2	1.94	0.68
1:B:390:ILE:CA	1:B:392:ALA:HB3	2.23	0.68
1:F:40:SER:OG	1:F:42:PRO:HA	1.94	0.68
1:C:30:ASP:CG	1:C:31:ARG:H	1.97	0.68
1:D:59:PRO:HG2	1:D:394:THR:HG21	1.74	0.68
1:F:66:VAL:O	1:F:112:ASP:HA	1.94	0.68
1:A:282:ILE:HG23	1:A:328:ASN:ND2	2.08	0.68
1:F:278:LEU:N	1:F:325:TYR:CE1	2.56	0.68
1:G:256:SER:OG	1:G:258:GLU:O	2.01	0.68
1:D:38:SER:OG	1:D:39:ASP:N	2.27	0.67
1:H:260:LEU:CD1	1:H:271:LEU:CD2	2.72	0.67
1:D:68:LEU:HD12	1:D:95:ILE:HG23	1.75	0.67
1:D:84:LEU:HD22	1:D:170:ILE:HG21	1.74	0.67
1:F:62:VAL:HA	1:F:109:THR:O	1.94	0.67
1:A:181:GLN:O	1:A:184:LEU:HD12	1.94	0.67
1:F:73:MET:CA	1:F:76:ALA:CB	2.72	0.67
1:E:323:GLU:CB	1:E:324:PRO:HD2	2.22	0.67
1:D:208:ALA:HB1	1:D:253:HIS:HD2	1.59	0.67
1:H:229:GLN:OE1	1:H:233:ARG:NH2	2.27	0.67
1:A:350:LYS:O	1:A:353:LEU:N	2.28	0.67
1:B:66:VAL:CG2	1:B:110:VAL:HG21	2.25	0.67
1:A:406:GLN:O	1:A:407:ILE:HG23	1.93	0.67
1:C:4:ILE:HG22	1:C:5:ALA:N	2.09	0.67
1:H:406:GLN:CB	1:H:415:LEU:CD1	2.73	0.67
1:F:29:GLY:O	1:F:30:ASP:HB2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:292:ALA:O	3:F:502:HOH:O	2.12	0.67
1:H:217:LEU:HD13	1:H:226:ARG:HG3	1.77	0.67
1:F:45:GLU:HG2	1:F:46:GLY:H	1.60	0.67
1:F:214:VAL:O	1:F:218:VAL:HG23	1.95	0.67
1:G:370:ASN:OD1	1:G:433:ARG:NH2	2.22	0.67
1:E:399:ARG:HA	1:E:404:ALA:HB2	1.76	0.67
1:A:209:VAL:CG2	1:A:252:THR:OG1	2.42	0.67
1:B:143:ILE:HG12	1:B:206:LYS:HD2	1.77	0.67
1:G:127:ILE:HD12	1:G:136:ARG:HA	1.77	0.67
1:C:217:LEU:HD23	1:C:224:PHE:CB	2.25	0.67
1:D:189:GLU:HB3	1:D:193:ARG:NH1	2.10	0.67
1:A:111:PHE:HA	1:A:138:PHE:O	1.95	0.66
1:A:178:VAL:HA	1:A:182:LEU:HD11	1.77	0.66
1:B:96:GLU:OE1	1:B:132:SER:HB2	1.95	0.66
1:D:5:ALA:O	1:D:50:VAL:HG12	1.95	0.66
1:F:73:MET:C	1:F:76:ALA:HB3	2.15	0.66
1:F:307:ARG:NH2	1:F:311:GLU:OE2	2.27	0.66
1:G:6:ILE:HG22	1:G:25:VAL:O	1.94	0.66
1:D:341:LEU:H	1:D:397:VAL:HG12	1.61	0.66
1:H:59:PRO:HG2	1:H:394:THR:HG21	1.78	0.66
1:A:179:GLY:O	1:A:180:HIS:ND1	2.26	0.66
1:A:191:ARG:NE	1:A:238:VAL:HG22	2.09	0.66
1:C:77:GLY:O	1:C:155:HIS:ND1	2.28	0.66
1:C:124:ARG:HB2	1:C:137:ILE:HB	1.76	0.66
1:E:279:GLY:H	1:E:325:TYR:HE1	1.40	0.66
1:A:126:ARG:HG2	1:A:126:ARG:NH1	2.09	0.66
1:A:208:ALA:HA	1:A:253:HIS:HB3	1.77	0.66
1:D:340:LEU:HD12	1:D:397:VAL:HG12	1.76	0.66
1:G:358:PRO:O	1:G:362:GLU:HG3	1.95	0.66
1:F:419:VAL:HG13	1:F:438:VAL:HG22	1.77	0.66
1:C:38:SER:OG	1:C:40:SER:O	2.12	0.66
1:D:76:ALA:HB3	1:D:77:GLY:HA2	1.76	0.66
1:C:254:SER:HG	1:C:260:LEU:HD13	1.61	0.66
1:G:127:ILE:HG13	1:G:128:ASN:N	2.10	0.66
1:H:206:LYS:HZ2	1:H:272:ILE:HG21	1.61	0.66
1:E:226:ARG:HH11	1:E:226:ARG:CA	2.08	0.66
1:A:145:GLY:H	1:A:179:GLY:HA2	1.60	0.66
1:A:287:ILE:O	1:A:291:VAL:CG2	2.25	0.66
1:G:356:LEU:HD22	1:G:360:GLU:OE1	1.95	0.66
1:E:319:ALA:O	1:E:325:TYR:HD2	1.79	0.66
1:C:337:ALA:O	1:C:338:LYS:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:6:ILE:CA	1:D:50:VAL:HG11	2.26	0.66
1:H:259:ALA:HA	1:H:262:THR:HB	1.78	0.66
1:D:56:TRP:HZ3	1:D:422:ASP:O	1.77	0.65
1:D:70:ASP:O	1:D:72:TRP:C	2.33	0.65
1:F:251:LEU:HD23	1:F:270:VAL:HB	1.78	0.65
1:H:407:ILE:HG22	1:H:408:GLY:H	1.60	0.65
1:A:282:ILE:CG2	1:A:328:ASN:HD21	2.09	0.65
1:G:123:ALA:O	1:G:127:ILE:HG23	1.96	0.65
1:E:196:ASP:O	1:E:199:SER:HB3	1.96	0.65
1:D:301:THR:CG2	1:D:378:SER:HB2	2.26	0.65
1:G:277:THR:OG1	1:G:280:GLN:O	2.11	0.65
1:A:62:VAL:HG13	1:A:109:THR:HB	1.77	0.65
1:A:275:ASN:CG	1:A:276:TYR:N	2.50	0.65
1:D:328:ASN:OD1	1:D:329:GLU:N	2.29	0.65
1:F:340:LEU:HD22	1:F:397:VAL:HA	1.78	0.65
1:E:226:ARG:NH1	1:E:226:ARG:HB2	2.12	0.65
1:A:88:GLU:OE1	1:A:169:ARG:NH1	2.28	0.65
1:H:322:GLY:HA2	1:H:326:ALA:CB	2.23	0.65
1:E:145:GLY:CA	1:E:179:GLY:HA2	2.26	0.65
1:B:391:SER:CA	1:B:394:THR:H	2.10	0.65
1:C:259:ALA:O	1:C:263:SER:N	2.30	0.65
1:D:412:THR:O	1:D:414:LYS:N	2.26	0.65
1:F:87:TRP:CH2	1:F:455:LEU:O	2.49	0.65
1:H:34:THR:HG22	1:H:41:THR:CG2	2.26	0.65
1:H:356:LEU:HB2	1:H:360:GLU:CG	2.21	0.65
1:E:324:PRO:O	1:E:325:TYR:C	2.32	0.65
1:C:26:ILE:CD1	1:C:41:THR:OG1	2.44	0.65
1:D:32:PHE:CE2	1:D:412:THR:CA	2.80	0.65
1:F:178:VAL:HG12	1:F:179:GLY:H	1.59	0.65
1:H:378:SER:O	1:H:380:VAL:O	2.14	0.65
1:E:217:LEU:HD23	1:E:217:LEU:O	1.96	0.65
1:A:275:ASN:O	1:A:328:ASN:ND2	2.28	0.65
1:B:384:MET:HE2	1:B:389:ALA:HA	1.79	0.65
1:C:74:PHE:HA	1:C:80:THR:OG1	1.97	0.65
1:G:326:ALA:HA	1:G:329:GLU:OE1	1.96	0.65
1:E:207:ILE:HD11	1:E:236:LEU:HD23	1.79	0.65
1:B:144:VAL:HG22	1:B:178:VAL:HG11	1.78	0.65
1:B:395:ILE:HD12	1:B:399[B]:ARG:CZ	2.26	0.65
1:F:166:PHE:CE1	1:F:170:ILE:HD11	2.32	0.65
1:F:323:GLU:CB	1:F:324:PRO:CD	2.69	0.65
1:H:204:MET:CA	1:H:248:VAL:HG12	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4:ILE:HG22	1:C:5:ALA:H	1.62	0.64
1:D:62:VAL:HG13	1:D:109:THR:HB	1.79	0.64
1:H:140:ALA:HA	1:H:204:MET:HG2	1.79	0.64
1:A:224:PHE:CD2	1:A:278:LEU:HD22	2.32	0.64
1:C:103:LEU:HD12	1:C:107:VAL:O	1.97	0.64
1:D:301:THR:HG23	1:D:382:LYS:NZ	2.13	0.64
1:G:421:LEU:HD11	1:G:432:LEU:HD23	1.79	0.64
1:H:6:ILE:CG2	1:H:9:VAL:HG21	2.28	0.64
1:B:301:THR:CG2	1:B:379:MET:HE3	2.26	0.64
1:D:231:PHE:HB2	1:D:236:LEU:CD1	2.27	0.64
1:A:178:VAL:HG12	1:A:179:GLY:N	2.12	0.64
1:F:308:GLN:O	1:F:312:ASP:N	2.31	0.64
1:H:96:GLU:OE2	1:H:126:ARG:NH2	2.30	0.64
1:E:257:VAL:CG2	1:E:277:THR:HG22	2.27	0.64
1:D:195:ARG:HD2	1:D:242:GLU:OE1	1.98	0.64
1:H:39:ASP:OD1	1:H:39:ASP:N	2.29	0.64
1:G:253:HIS:ND1	1:G:273:HIS:HD2	1.96	0.64
1:G:274:ALA:HB3	1:G:298:GLY:O	1.98	0.64
1:B:111:PHE:HD2	1:B:204:MET:HE1	1.61	0.64
1:B:340:LEU:HD11	1:B:397:VAL:HA	1.79	0.64
1:D:65:ASN:OD1	1:D:66:VAL:N	2.30	0.64
1:F:282:ILE:HG22	1:F:286:LEU:HB3	1.80	0.64
1:G:9:VAL:O	1:G:23:THR:HG22	1.98	0.64
1:B:74:PHE:CZ	1:B:84:LEU:HD21	2.33	0.64
1:F:70:ASP:OD1	1:F:71:ALA:N	2.30	0.64
1:F:63:ASN:ND2	1:F:371:ASP:OD2	2.30	0.64
1:F:279:GLY:O	1:F:280:GLN:OE1	2.14	0.64
1:G:6:ILE:HD11	1:G:9:VAL:HG13	1.79	0.64
1:H:67:HIS:CD2	1:H:67:HIS:N	2.64	0.64
1:D:75:MET:O	1:D:76:ALA:C	2.35	0.64
1:F:257:VAL:HG23	1:F:277:THR:HG21	1.77	0.64
1:F:268:ALA:O	1:F:295:SER:CB	2.45	0.64
1:B:299:LEU:HD23	1:B:329:GLU:CB	2.16	0.63
1:D:70:ASP:O	1:D:72:TRP:CA	2.46	0.63
1:G:390:ILE:HG22	1:G:429:ILE:CD1	2.28	0.63
1:H:180:HIS:O	1:H:182:LEU:N	2.30	0.63
1:E:226:ARG:HH11	1:E:226:ARG:CB	2.10	0.63
1:A:238:VAL:O	1:A:241:GLU:HG2	1.98	0.63
1:C:178:VAL:O	1:C:182:LEU:HG	1.97	0.63
1:G:262:THR:O	1:G:266:LEU:HD22	1.98	0.63
1:G:391:SER:O	1:G:396:ASN:OD1	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:419:VAL:HG23	1:E:438:VAL:HG22	1.79	0.63
1:A:153:ASP:HB3	1:A:212:HIS:HB3	1.79	0.63
1:A:237:GLU:HA	1:A:266:LEU:CD1	2.28	0.63
1:B:259:ALA:O	1:B:263:SER:OG	2.14	0.63
1:D:171:ASP:OD1	1:D:171:ASP:N	2.28	0.63
1:F:73:MET:HG2	1:F:73:MET:O	1.99	0.63
1:F:290:ILE:HG23	1:F:291:VAL:N	2.14	0.63
1:F:395:ILE:HA	1:F:398:ALA:HB3	1.79	0.63
1:H:332:LEU:HD22	1:H:337:ALA:HB2	1.81	0.63
1:B:31:ARG:NH1	1:B:415:LEU:N	2.46	0.63
1:D:6:ILE:C	1:D:24:THR:CG2	2.66	0.63
1:F:14:GLY:HA2	1:F:390:ILE:HD13	1.80	0.63
1:E:75:MET:CE	1:E:316:TRP:CZ3	2.81	0.63
1:E:290:ILE:HA	1:E:293:SER:OG	1.98	0.63
1:A:348:PRO:HG3	1:A:364:ARG:NH1	2.12	0.63
1:C:254:SER:HG	1:C:260:LEU:CD1	2.12	0.63
1:D:32:PHE:CD2	1:D:412:THR:CA	2.81	0.63
1:F:74:PHE:CD1	1:F:80:THR:HG23	2.33	0.63
1:F:311:GLU:HG2	1:F:318:ALA:HB1	1.80	0.63
1:G:94:VAL:HG13	1:G:456:VAL:HG23	1.81	0.63
1:A:251:LEU:CD1	1:A:270:VAL:CG2	2.76	0.63
1:A:251:LEU:HD11	1:A:270:VAL:CG1	2.12	0.63
1:C:26:ILE:HD12	1:C:34:THR:OG1	1.99	0.63
1:H:6:ILE:CD1	1:H:57:MET:SD	2.87	0.63
1:C:69:LEU:HB2	1:C:115:ASN:OD1	1.98	0.63
1:F:118:GLU:CG	1:F:119:PRO:HD3	2.29	0.63
1:G:13:ASP:O	1:G:409:SER:OG	2.12	0.63
1:E:175:GLU:O	1:E:178:VAL:N	2.22	0.63
1:C:251:LEU:N	1:C:251:LEU:HD12	2.14	0.63
1:D:459:HIS:ND1	1:D:459:HIS:O	2.31	0.63
1:E:277:THR:HB	1:E:280:GLN:O	1.98	0.63
1:A:250:VAL:N	1:A:269:ASP:HB2	2.14	0.63
1:B:253:HIS:CD2	1:B:273:HIS:CE1	2.87	0.63
1:D:96:GLU:O	1:D:100:GLN:N	2.32	0.63
1:D:333:ILE:HD13	1:D:333:ILE:C	2.16	0.63
1:D:350:LYS:CD	1:D:458:ALA:O	2.46	0.63
1:F:97:GLU:OE2	1:F:456:VAL:CG1	2.46	0.63
1:C:31:ARG:O	1:C:416:ALA:HB2	1.98	0.62
1:D:301:THR:OG1	1:D:379:MET:HE2	1.98	0.62
1:F:279:GLY:HA2	1:F:324:PRO:CG	2.20	0.62
1:F:328:ASN:O	1:F:329:GLU:C	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:7:THR:HA	1:H:24:THR:HG23	1.80	0.62
1:H:87:TRP:HB3	1:H:94:VAL:HG21	1.80	0.62
1:A:191:ARG:NE	1:A:238:VAL:CG2	2.61	0.62
1:G:127:ILE:HD13	1:G:137:ILE:HG12	1.81	0.62
1:A:224:PHE:HB3	1:A:278:LEU:HD13	1.79	0.62
1:D:67:HIS:CG	1:D:71:ALA:HB3	2.35	0.62
1:F:178:VAL:HG12	1:F:179:GLY:N	2.15	0.62
1:A:250:VAL:H	1:A:269:ASP:CB	2.11	0.62
1:A:275:ASN:OD1	1:A:276:TYR:CD2	2.53	0.62
1:E:25:VAL:HB	1:E:35:VAL:HG12	1.81	0.62
1:A:75:MET:SD	1:A:215:PHE:HD2	2.22	0.62
1:A:179:GLY:C	1:A:180:HIS:O	2.28	0.62
1:B:307:ARG:NH2	1:B:322:GLY:HA3	2.13	0.62
1:D:124:ARG:O	1:D:128:ASN:ND2	2.28	0.62
1:D:195:ARG:HE	1:D:242:GLU:HB3	1.64	0.62
1:F:313:VAL:CG2	1:F:360:GLU:OE2	2.47	0.62
1:F:428:ASP:CG	1:F:430:ARG:HD2	2.19	0.62
1:G:181:GLN:O	1:G:182:LEU:HD12	2.00	0.62
1:H:153:ASP:O	1:H:212:HIS:ND1	2.33	0.62
1:H:253:HIS:HE2	1:H:273:HIS:HE2	1.42	0.62
1:D:56:TRP:CZ3	1:D:422:ASP:O	2.53	0.62
1:D:222:VAL:CG2	1:D:223:GLY:N	2.62	0.62
1:D:273:HIS:NE2	3:D:502:HOH:O	2.30	0.62
1:F:153:ASP:OD2	1:F:180:HIS:NE2	2.32	0.62
1:A:115:ASN:OD1	1:A:116:ALA:N	2.32	0.62
1:F:72:TRP:C	1:F:76:ALA:CB	2.64	0.62
1:C:113:THR:HB	1:C:206:LYS:CD	2.28	0.62
1:D:339:ILE:HG22	1:D:340:LEU:N	2.15	0.62
1:D:350:LYS:CE	1:D:460:PRO:HB3	2.26	0.62
1:G:286:LEU:O	1:G:288:ASP:N	2.33	0.62
1:H:406:GLN:HB2	1:H:415:LEU:CD1	2.29	0.62
1:B:151:SER:OG	1:B:152:ALA:O	2.10	0.62
1:F:75:MET:CE	1:F:212:HIS:HE1	2.13	0.62
1:H:164:ARG:HA	1:H:167:VAL:HB	1.80	0.62
1:C:10:THR:HA	1:C:21:PRO:HA	1.81	0.62
1:F:255:VAL:HA	1:F:276:TYR:O	2.00	0.62
1:E:226:ARG:CD	1:E:228:TYR:HE2	2.07	0.61
1:E:264:VAL:HG12	1:E:293:SER:CB	2.30	0.61
1:A:72:TRP:O	1:A:76:ALA:HA	2.00	0.61
1:D:305:GLN:O	1:D:309:GLY:N	2.32	0.61
1:F:227:SER:O	1:F:228:TYR:O	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:26:ILE:HD11	1:G:42:PRO:O	2.00	0.61
1:H:149:PRO:O	1:H:155:HIS:N	2.33	0.61
1:H:303:HIS:ND1	1:H:306:HIS:HB2	2.15	0.61
1:A:191:ARG:HD2	1:A:238:VAL:HG21	1.82	0.61
1:B:178:VAL:HG21	1:B:197:TYR:CG	2.34	0.61
1:B:341:LEU:CD1	1:B:393:ALA:HB2	2.31	0.61
1:B:380:VAL:HG13	1:B:384:MET:O	2.00	0.61
1:B:385:SER:CB	1:B:387:LEU:O	2.47	0.61
1:H:217:LEU:HD13	1:H:226:ARG:CG	2.31	0.61
1:H:240:VAL:O	1:H:241:GLU:HB3	2.00	0.61
1:H:406:GLN:HB3	1:H:415:LEU:CD1	2.30	0.61
1:A:236:LEU:O	1:A:240:VAL:HG23	1.99	0.61
1:C:66:VAL:HG21	1:C:110:VAL:HB	1.83	0.61
1:C:219:ASP:OD1	1:C:222:VAL:N	2.33	0.61
1:H:6:ILE:CG2	1:H:25:VAL:CG1	2.61	0.61
1:E:226:ARG:HH11	1:E:226:ARG:HA	1.63	0.61
1:B:195:ARG:O	1:B:199:SER:OG	2.18	0.61
1:B:396:ASN:OD1	1:B:396:ASN:N	2.33	0.61
1:E:169:ARG:NH2	1:D:351:ASP:OD2	2.34	0.61
1:A:235:VAL:HA	1:A:238:VAL:CG1	2.30	0.61
1:C:121:LEU:HD21	1:C:124:ARG:NH2	2.15	0.61
1:A:125:ASP:HB2	1:A:126:ARG:NH1	2.14	0.61
1:A:180:HIS:O	1:A:181:GLN:HB2	1.99	0.61
1:A:253:HIS:CE1	1:A:273:HIS:CE1	2.87	0.61
1:B:44:PRO:HD2	1:B:47:ALA:HB2	1.82	0.61
1:C:302:VAL:HA	1:C:374:HIS:HE1	1.65	0.61
1:D:136:ARG:CZ	1:D:415:LEU:HD13	2.31	0.61
1:A:235:VAL:CA	1:A:238:VAL:HG12	2.30	0.61
1:A:254:SER:HB3	1:A:259:ALA:HB1	1.81	0.61
1:C:6:ILE:HG21	1:C:25:VAL:HG22	1.75	0.61
1:D:387:LEU:HA	1:D:390:ILE:HB	1.82	0.61
1:H:253:HIS:CD2	1:H:273:HIS:HE1	2.15	0.61
1:H:340:LEU:HD21	1:H:397:VAL:HG13	1.81	0.61
1:E:178:VAL:HG22	1:E:182:LEU:HD11	1.83	0.61
1:E:272:ILE:HG22	1:E:273:HIS:CE1	2.36	0.61
1:E:309:GLY:O	1:E:313:VAL:HG23	2.01	0.61
1:D:6:ILE:CG1	1:D:50:VAL:HG11	2.30	0.61
1:F:324:PRO:O	1:F:328:ASN:HB3	2.00	0.61
1:G:386:PRO:O	1:G:390:ILE:HG23	2.00	0.61
1:G:389:ALA:O	1:G:392:ALA:HB3	2.01	0.61
1:E:217:LEU:HD23	1:E:217:LEU:C	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:372:HIS:O	1:B:376:THR:OG1	2.17	0.61
1:C:142:THR:OG1	1:C:174:PHE:O	2.16	0.61
1:D:301:THR:HG21	1:D:378:SER:HB3	1.80	0.61
1:G:178:VAL:HG12	1:G:179:GLY:H	1.65	0.61
1:G:286:LEU:C	1:G:288:ASP:N	2.52	0.61
1:H:170:ILE:HA	1:H:173:MET:HE2	1.83	0.61
1:H:240:VAL:HG12	1:H:241:GLU:N	2.16	0.61
1:E:38:SER:HG	1:E:39:ASP:H	1.49	0.61
1:A:206:LYS:CE	1:A:272:ILE:CD1	2.79	0.61
1:C:72:TRP:O	1:C:75:MET:O	2.19	0.61
1:F:304:ASP:OD1	1:F:381:GLU:CD	2.39	0.61
1:E:329:GLU:O	1:E:333:ILE:HG13	2.00	0.60
1:D:153:ASP:O	1:D:212:HIS:ND1	2.29	0.60
1:B:393:ALA:O	1:B:397:VAL:HG23	2.01	0.60
1:F:150:PHE:HB2	1:F:167:VAL:HG13	1.84	0.60
1:C:58:VAL:HG23	1:C:419:VAL:HB	1.82	0.60
1:C:236:LEU:HD13	1:C:266:LEU:HD11	1.84	0.60
1:C:307:ARG:HG3	1:C:308:GLN:N	2.16	0.60
1:G:68:LEU:HD11	1:G:137:ILE:HG21	1.83	0.60
1:A:100:GLN:OE1	1:A:451:PRO:CB	2.49	0.60
1:B:424:ASP:O	1:B:431:ASN:OD1	2.19	0.60
1:D:282:ILE:HB	1:D:287:ILE:CD1	2.32	0.60
1:C:214:VAL:O	1:C:217:LEU:N	2.26	0.60
1:D:97:GLU:HA	1:D:100:GLN:HE21	1.66	0.60
1:G:102:ALA:O	1:G:107:VAL:N	2.34	0.60
1:G:362:GLU:O	1:G:363:ASP:HB2	2.01	0.60
1:H:63:ASN:HA	1:H:341:LEU:HD23	1.83	0.60
1:H:356:LEU:CB	1:H:360:GLU:HG3	2.20	0.60
1:E:185:LEU:HD12	1:E:186:PRO:HD2	1.83	0.60
1:A:238:VAL:HG13	1:A:239:MET:N	2.17	0.60
1:B:389:ALA:O	1:B:392:ALA:HB3	1.94	0.60
1:B:399[B]:ARG:HA	1:B:404:ALA:HB2	1.83	0.60
1:D:180:HIS:O	1:D:181:GLN:HB3	2.01	0.60
1:F:87:TRP:CZ2	1:F:455:LEU:O	2.54	0.60
1:F:255:VAL:HB	1:F:278:LEU:HD23	1.83	0.60
1:H:178:VAL:HG11	1:H:197:TYR:CG	2.36	0.60
1:E:153:ASP:CA	1:E:212:HIS:O	2.49	0.60
1:B:197:TYR:O	1:B:200:ARG:HB2	2.01	0.60
1:F:23:THR:HA	1:F:37:PRO:HA	1.83	0.60
1:B:139:ALA:N	1:B:203:ASP:OD2	2.35	0.60
1:F:166:PHE:CZ	1:F:170:ILE:HD11	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:323:GLU:O	1:F:327:THR:OG1	2.18	0.60
1:G:9:VAL:O	1:G:23:THR:CG2	2.50	0.60
1:H:208:ALA:HA	1:H:253:HIS:CB	2.32	0.60
1:E:264:VAL:HG12	1:E:293:SER:HB2	1.84	0.60
1:B:391:SER:N	1:B:394:THR:H	2.00	0.60
1:G:6:ILE:HD13	1:G:9:VAL:HG21	1.82	0.60
1:E:206:LYS:HE2	1:E:253:HIS:HB2	1.84	0.60
1:E:214:VAL:HG22	1:E:215:PHE:CD1	2.37	0.60
1:B:31:ARG:HH11	1:B:415:LEU:N	2.00	0.60
1:E:75:MET:HE3	1:E:316:TRP:CZ3	2.37	0.59
1:A:296:TRP:CE3	1:A:338:LYS:HB3	2.36	0.59
1:G:56:TRP:O	1:G:420:LEU:HA	2.02	0.59
1:H:41:THR:N	1:H:42:PRO:HA	2.16	0.59
1:A:75:MET:SD	1:A:215:PHE:CE2	2.95	0.59
1:D:411:GLU:O	1:D:412:THR:CB	2.46	0.59
1:D:420:LEU:O	1:D:436:THR:OG1	2.19	0.59
1:F:277:THR:HB	1:F:280:GLN:O	2.03	0.59
1:H:68:LEU:CD1	1:H:95:ILE:HG23	2.32	0.59
1:A:45:GLU:C	1:A:47:ALA:H	2.05	0.59
1:D:244:ARG:NH2	1:D:269:ASP:OD2	2.32	0.59
1:H:202:VAL:O	1:H:203:ASP:C	2.39	0.59
1:A:3:THR:HA	1:A:28:GLU:HA	1.84	0.59
1:A:206:LYS:CE	1:A:272:ILE:HD11	2.29	0.59
1:B:96:GLU:OE1	1:B:132:SER:CB	2.50	0.59
1:B:397:VAL:O	1:B:401:TYR:HD1	1.85	0.59
1:D:136:ARG:NH2	1:D:417:ASP:OD2	2.34	0.59
1:D:252:THR:HG22	1:D:271:LEU:HA	1.84	0.59
1:C:136:ARG:NH2	1:C:417:ASP:OD2	2.34	0.59
1:F:35:VAL:HG12	1:F:36:GLY:H	1.68	0.59
1:F:235:VAL:HA	1:F:238:VAL:HB	1.83	0.59
1:G:282:ILE:HG13	1:G:328:ASN:OD1	2.02	0.59
1:H:207:ILE:CD1	1:H:239:MET:SD	2.90	0.59
1:E:429:ILE:HG13	1:E:432:LEU:CD1	2.32	0.59
1:H:100:GLN:HG2	1:H:134:GLY:HA2	1.83	0.59
1:B:254:SER:OG	1:B:271:LEU:CD2	2.51	0.59
1:B:254:SER:OG	1:B:271:LEU:HD21	2.02	0.59
1:B:303:HIS:HB2	1:B:306:HIS:H	1.67	0.59
1:C:299:LEU:O	1:C:375:TRP:NE1	2.31	0.59
1:C:399[B]:ARG:HD3	1:C:404:ALA:CB	2.33	0.59
1:D:195:ARG:HG3	1:D:195:ARG:NH1	2.17	0.59
1:F:204:MET:HA	1:F:248:VAL:HB	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:169:ARG:O	1:H:173:MET:HB2	2.03	0.59
1:H:428:ASP:OD2	1:H:430:ARG:NH1	2.36	0.59
1:B:102:ALA:HB1	1:B:107:VAL:HB	1.84	0.59
1:B:289:LYS:O	1:B:293:SER:N	2.30	0.59
1:B:391:SER:N	1:B:392:ALA:CB	2.62	0.59
1:D:187:ARG:HB3	1:D:187:ARG:HH11	1.66	0.59
1:D:232:SER:HB2	1:D:234:PRO:HD2	1.83	0.59
1:E:214:VAL:CG1	1:E:215:PHE:HD1	2.09	0.59
1:A:363:ASP:OD2	1:A:374:HIS:ND1	2.35	0.59
1:C:397:VAL:O	1:C:401:TYR:HD1	1.86	0.59
1:D:289:LYS:O	1:D:293:SER:HB2	2.03	0.59
1:A:409:SER:CB	1:A:414:LYS:NZ	2.65	0.58
1:C:318:ALA:O	1:C:319:ALA:C	2.41	0.58
1:G:259:ALA:HA	1:G:262:THR:HB	1.84	0.58
1:H:150:PHE:HA	1:H:155:HIS:O	2.02	0.58
1:A:409:SER:CB	1:A:414:LYS:HZ3	2.15	0.58
1:B:436:THR:O	1:B:447:ARG:NH2	2.36	0.58
1:F:269:ASP:O	1:F:296:TRP:HB2	2.03	0.58
1:F:322:GLY:O	1:F:323:GLU:OE1	2.20	0.58
1:G:388:GLU:HA	1:G:391:SER:OG	2.04	0.58
1:H:6:ILE:HG22	1:H:9:VAL:HG22	1.84	0.58
1:A:179:GLY:O	1:A:180:HIS:O	2.20	0.58
1:B:391:SER:HB3	1:B:394:THR:OG1	2.03	0.58
1:F:64:GLY:HA3	1:F:341:LEU:O	2.04	0.58
1:G:326:ALA:HA	1:G:329:GLU:HB2	1.84	0.58
1:D:6:ILE:HA	1:D:50:VAL:HG13	1.84	0.58
1:D:100:GLN:HG2	1:D:450:LEU:HD22	1.86	0.58
1:F:226:ARG:CB	1:F:226:ARG:HH11	2.16	0.58
1:G:217:LEU:HB2	1:G:219:ASP:HB2	1.86	0.58
1:H:213:ILE:HG22	1:H:213:ILE:O	2.01	0.58
1:E:290:ILE:O	1:E:293:SER:OG	2.19	0.58
1:A:240:VAL:CG2	1:A:266:LEU:CG	2.77	0.58
1:B:117:ILE:HA	1:B:120:VAL:HG12	1.85	0.58
1:F:38:SER:HB2	1:F:40:SER:N	2.17	0.58
1:F:45:GLU:CG	1:F:46:GLY:H	2.16	0.58
1:F:258:GLU:C	1:F:260:LEU:H	2.07	0.58
1:E:279:GLY:N	1:E:325:TYR:HE1	1.97	0.58
1:B:66:VAL:CG2	1:B:110:VAL:CG2	2.82	0.58
1:D:301:THR:HG22	1:D:302:VAL:N	2.18	0.58
1:G:122:ALA:O	1:G:126:ARG:HG3	2.04	0.58
1:H:206:LYS:HE3	1:H:272:ILE:CB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:10:THR:HA	1:E:21:PRO:HA	1.85	0.58
1:D:49:VAL:HG23	1:D:49:VAL:O	2.02	0.58
1:D:104:ARG:O	1:D:447:ARG:HD3	2.03	0.58
1:D:195:ARG:NH2	1:D:242:GLU:O	2.28	0.58
1:F:75:MET:CE	1:F:212:HIS:CE1	2.86	0.58
1:G:258:GLU:O	1:G:259:ALA:HB3	2.04	0.58
1:G:286:LEU:C	1:G:288:ASP:H	2.06	0.58
1:E:74:PHE:HA	1:E:80:THR:OG1	2.04	0.58
1:B:41:THR:N	1:B:42:PRO:HA	2.17	0.58
1:B:73:MET:HA	1:B:76:ALA:CB	2.34	0.58
1:C:240:VAL:O	1:C:243:ALA:HB3	2.03	0.58
1:D:10:THR:HA	1:D:21:PRO:HA	1.85	0.58
1:D:68:LEU:HD13	1:D:95:ILE:CG2	2.34	0.58
1:G:380:VAL:HA	1:G:384:MET:HB2	1.84	0.58
1:C:9:VAL:HG13	1:C:52:GLY:HA3	1.86	0.58
1:D:75:MET:O	1:D:76:ALA:O	2.21	0.58
1:D:214:VAL:O	1:D:217:LEU:HB3	2.04	0.58
1:F:290:ILE:CD1	1:F:337:ALA:HA	2.34	0.58
1:F:375:TRP:HH2	1:F:392:ALA:HB1	1.69	0.58
1:G:363:ASP:O	1:G:374:HIS:CE1	2.56	0.58
1:G:388:GLU:O	1:G:391:SER:OG	2.22	0.58
1:E:303:HIS:HB2	1:E:306:HIS:H	1.67	0.58
1:B:187:ARG:HB3	1:B:235:VAL:HG22	1.85	0.58
1:B:190:VAL:O	1:B:194:VAL:HG23	2.04	0.58
1:F:113:THR:HG21	1:F:206:LYS:HD3	1.85	0.58
1:F:126:ARG:NH1	1:F:132:SER:HG	2.01	0.58
1:A:11:LEU:HD11	1:A:410:VAL:HG11	1.86	0.57
1:B:258:GLU:O	1:B:259:ALA:HB3	2.03	0.57
1:D:79:GLY:HA2	1:D:82:GLU:OE1	2.04	0.57
1:E:224:PHE:CG	1:E:278:LEU:HD12	2.37	0.57
1:B:273:HIS:HB3	1:B:300:GLN:HE21	1.69	0.57
1:G:94:VAL:HG22	1:G:455:LEU:HD22	1.84	0.57
1:H:145:GLY:H	1:H:179:GLY:HA3	1.64	0.57
1:E:23:THR:HG22	1:E:37:PRO:HG3	1.85	0.57
1:A:66:VAL:HG11	1:A:368:ILE:CD1	2.34	0.57
1:A:97:GLU:OE2	1:A:451:PRO:HG3	2.05	0.57
1:A:250:VAL:O	1:A:270:VAL:N	2.36	0.57
1:B:60:GLY:HA2	1:B:419:VAL:HG23	1.86	0.57
1:F:429:ILE:O	1:F:429:ILE:HG13	2.04	0.57
1:G:67:HIS:N	1:G:345:ALA:O	2.31	0.57
1:H:231:PHE:HB2	1:H:236:LEU:HD21	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:213:ILE:CG2	1:E:216:THR:HG22	2.34	0.57
1:A:213:ILE:HG23	1:A:216:THR:HG21	1.87	0.57
1:B:240:VAL:O	1:B:244:ARG:HG2	2.04	0.57
1:G:127:ILE:HD11	1:G:137:ILE:H	1.69	0.57
1:B:391:SER:CA	1:B:394:THR:N	2.68	0.57
1:D:146:MET:O	1:D:179:GLY:HA3	2.04	0.57
1:F:30:ASP:O	1:F:416:ALA:CB	2.52	0.57
1:F:111:PHE:CE1	1:F:138:PHE:HD2	2.22	0.57
1:B:389:ALA:C	1:B:392:ALA:HB3	2.21	0.57
1:C:351:ASP:OD2	1:H:166:PHE:HB2	2.04	0.57
1:D:117:ILE:HA	1:D:120:VAL:HG12	1.86	0.57
1:H:6:ILE:HG21	1:H:25:VAL:HG12	1.85	0.57
1:H:225:ASP:CB	1:H:226:ARG:HE	2.13	0.57
1:E:225:ASP:O	1:E:226:ARG:CB	2.53	0.57
1:E:301:THR:HG21	1:E:379:MET:SD	2.45	0.57
1:A:51:ASP:O	1:A:55:ARG:NH2	2.37	0.57
1:A:343:THR:OG1	1:A:345:ALA:HB2	2.05	0.57
1:D:32:PHE:HD2	1:D:412:THR:HA	1.67	0.57
1:H:240:VAL:O	1:H:241:GLU:CB	2.53	0.57
1:H:356:LEU:HD12	1:H:360:GLU:HG3	1.86	0.57
1:E:77:GLY:N	1:E:78:PRO:CD	2.68	0.57
1:E:78:PRO:HA	1:E:155:HIS:CE1	2.40	0.57
1:E:419:VAL:HG22	1:E:435:ILE:HG23	1.85	0.57
1:A:411:GLU:CB	1:A:414:LYS:HE2	2.35	0.57
1:B:203:ASP:HB2	1:B:204:MET:HG3	1.85	0.57
1:C:219:ASP:OD1	1:C:223:GLY:N	2.37	0.57
1:F:319:ALA:O	1:F:322:GLY:O	2.23	0.57
1:G:58:VAL:O	1:G:419:VAL:N	2.33	0.57
1:H:201:GLY:C	1:H:202:VAL:HG22	2.25	0.57
1:B:69:LEU:CD1	1:B:95:ILE:CG1	2.80	0.57
1:B:210:SER:HB2	1:B:255:VAL:HG23	1.86	0.57
1:D:217:LEU:HD22	1:D:226:ARG:HG2	1.87	0.57
1:F:330:ARG:HG2	1:F:382:LYS:HD2	1.87	0.57
1:G:9:VAL:N	1:G:23:THR:O	2.37	0.57
1:A:32:PHE:HD2	1:A:411:GLU:O	1.88	0.57
1:B:63:ASN:HB3	1:B:110:VAL:HG23	1.86	0.57
1:D:220:ARG:O	1:D:221:SER:OG	2.21	0.57
1:G:6:ILE:CG1	1:G:9:VAL:HG22	2.26	0.57
1:H:61:TYR:CE1	1:H:432:LEU:HD23	2.39	0.57
1:A:406:GLN:O	1:A:415:LEU:HB2	2.05	0.56
1:C:67:HIS:CE1	1:C:114:HIS:CB	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:217:LEU:HD11	1:D:225:ASP:OD1	2.05	0.56
1:H:109:THR:HA	1:H:136:ARG:HB2	1.86	0.56
1:H:202:VAL:O	1:H:202:VAL:HG23	2.04	0.56
1:E:278:LEU:CA	1:E:325:TYR:HE1	2.19	0.56
1:F:205:LEU:HD13	1:F:243:ALA:HB2	1.86	0.56
1:G:218:VAL:HB	1:G:219:ASP:HA	1.87	0.56
1:H:122:ALA:O	1:H:126:ARG:HD2	2.04	0.56
1:H:326:ALA:HA	1:H:329:GLU:OE2	2.05	0.56
1:E:19:PRO:O	1:E:21:PRO:HD3	2.04	0.56
1:E:205:LEU:HD13	1:E:243:ALA:HB2	1.87	0.56
1:A:219:ASP:HB3	1:A:222:VAL:HB	1.87	0.56
1:C:162:ALA:HB1	1:H:82:GLU:OE1	2.04	0.56
1:G:9:VAL:O	1:G:23:THR:O	2.24	0.56
1:E:284:ASN:O	1:E:285:TYR:CB	2.51	0.56
1:B:73:MET:HA	1:B:76:ALA:HB3	1.87	0.56
1:B:257:VAL:CG2	1:B:277:THR:OG1	2.53	0.56
1:A:125:ASP:CB	1:A:126:ARG:HH12	2.17	0.56
1:D:38:SER:OG	1:D:40:SER:O	2.24	0.56
1:F:6:ILE:HD11	1:F:420:LEU:HD21	1.87	0.56
1:F:277:THR:HG22	1:F:277:THR:O	2.04	0.56
1:F:304:ASP:OD1	1:F:381:GLU:OE1	2.24	0.56
1:H:189:GLU:O	1:H:193:ARG:NH2	2.39	0.56
1:E:23:THR:HA	1:E:37:PRO:HA	1.87	0.56
1:A:209:VAL:HG23	1:A:253:HIS:H	1.71	0.56
1:A:251:LEU:HD12	1:A:270:VAL:HG12	1.81	0.56
1:C:326:ALA:O	1:C:329:GLU:N	2.39	0.56
1:F:3:THR:CB	1:F:28:GLU:OE2	2.39	0.56
1:F:65:ASN:OD1	1:F:113:THR:CB	2.53	0.56
1:H:11:LEU:HB2	1:H:57:MET:HB2	1.88	0.56
1:H:260:LEU:O	1:H:264:VAL:HG23	2.04	0.56
1:E:198:LEU:O	1:E:201:GLY:N	2.24	0.56
1:A:240:VAL:CG2	1:A:266:LEU:HD11	2.35	0.56
1:C:286:LEU:O	1:C:290:ILE:HG13	2.06	0.56
1:F:73:MET:C	1:F:76:ALA:CB	2.73	0.56
1:F:154:PHE:N	1:F:154:PHE:CD1	2.73	0.56
1:F:256:SER:HB2	1:F:258:GLU:O	2.06	0.56
1:F:277:THR:CB	1:F:280:GLN:O	2.54	0.56
1:F:453:THR:C	1:F:455:LEU:HD23	2.24	0.56
1:G:127:ILE:CD1	1:G:136:ARG:HA	2.36	0.56
1:G:453:THR:O	1:G:453:THR:OG1	2.24	0.56
1:H:146:MET:SD	1:H:212:HIS:HB2	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:307:ARG:HB2	1:E:321:ALA:HB1	1.87	0.56
1:D:191:ARG:HH21	1:D:238:VAL:HG22	1.69	0.56
1:F:204:MET:CE	1:F:251:LEU:HD11	2.35	0.56
1:G:317:ALA:O	1:G:320:LEU:HG	2.06	0.56
1:G:341:LEU:HG	1:G:375:TRP:CD2	2.41	0.56
1:H:6:ILE:HG22	1:H:9:VAL:CG2	2.36	0.56
1:H:68:LEU:HB3	1:H:95:ILE:HG23	1.87	0.56
1:A:253:HIS:CE1	1:A:273:HIS:ND1	2.72	0.56
1:D:195:ARG:CD	1:D:242:GLU:OE1	2.54	0.56
1:F:41:THR:OG1	1:F:42:PRO:O	2.23	0.56
1:B:73:MET:O	1:B:76:ALA:N	2.33	0.56
1:F:263:SER:O	1:F:266:LEU:HD12	2.07	0.56
1:G:323:GLU:CB	1:G:324:PRO:CD	2.84	0.56
1:G:323:GLU:CB	1:G:324:PRO:HD3	2.34	0.56
1:G:340:LEU:HG	1:G:397:VAL:HG22	1.87	0.56
1:F:185:LEU:HD23	1:F:186:PRO:HD2	1.88	0.55
1:F:204:MET:HE3	1:F:251:LEU:HD11	1.87	0.55
1:H:255:VAL:CB	1:H:278:LEU:CD1	2.75	0.55
1:H:303:HIS:NE2	1:H:305:GLN:HB2	2.20	0.55
1:E:226:ARG:HH11	1:E:226:ARG:HB2	1.67	0.55
1:B:133:GLN:HG2	1:B:450:LEU:HD11	1.88	0.55
1:B:379:MET:O	1:B:382:LYS:HB2	2.05	0.55
1:B:409:SER:HB3	1:B:414:LYS:HE3	1.89	0.55
1:C:78:PRO:HG2	1:C:352:HIS:CE1	2.40	0.55
1:C:114:HIS:CE1	1:C:143:ILE:H	2.24	0.55
1:D:124:ARG:HB2	1:D:137:ILE:HB	1.88	0.55
1:F:38:SER:HB2	1:F:40:SER:O	2.05	0.55
1:F:60:GLY:HA2	1:F:419:VAL:HG23	1.87	0.55
1:F:264:VAL:HG13	1:F:293:SER:CB	2.22	0.55
1:G:6:ILE:HD11	1:G:9:VAL:HG11	1.86	0.55
1:H:323:GLU:CB	1:H:324:PRO:CD	2.83	0.55
1:H:352:HIS:O	1:H:356:LEU:HG	2.06	0.55
1:E:153:ASP:HB3	1:E:212:HIS:CB	2.19	0.55
1:E:153:ASP:OD1	1:E:212:HIS:O	2.24	0.55
1:A:91:TYR:CE2	1:A:173:MET:HE1	2.42	0.55
1:B:96:GLU:O	1:B:100:GLN:NE2	2.39	0.55
1:C:21:PRO:O	1:C:22:ALA:HB3	2.05	0.55
1:D:14:GLY:O	1:D:395:ILE:HD11	2.06	0.55
1:C:112:ASP:O	1:C:139:ALA:HA	2.06	0.55
1:G:100:GLN:OE1	1:G:451:PRO:HA	2.06	0.55
1:E:144:VAL:HA	1:E:178:VAL:HG13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:252:THR:HG21	1:E:271:LEU:HD22	1.87	0.55
1:E:429:ILE:CD1	1:E:432:LEU:HD11	2.37	0.55
1:E:453:THR:HG23	1:E:453:THR:O	2.06	0.55
1:A:3:THR:HA	1:A:27:VAL:O	2.07	0.55
1:A:395:ILE:HA	1:A:398:ALA:HB3	1.89	0.55
1:C:373:PHE:HB3	1:C:433:ARG:HE	1.70	0.55
1:H:6:ILE:HG13	1:H:25:VAL:HG13	1.87	0.55
1:H:41:THR:O	1:H:41:THR:HG22	2.06	0.55
1:H:143:ILE:CG2	1:H:146:MET:HE2	2.34	0.55
1:H:208:ALA:HA	1:H:253:HIS:HB3	1.87	0.55
1:A:325:TYR:N	1:A:325:TYR:CD1	2.74	0.55
1:A:343:THR:HG21	1:A:371:ASP:OD2	2.06	0.55
1:C:205:LEU:O	1:C:251:LEU:HD12	2.06	0.55
1:C:390:ILE:O	1:C:394:THR:HG23	2.06	0.55
1:D:6:ILE:CB	1:D:50:VAL:HG11	2.36	0.55
1:D:222:VAL:HG22	1:D:223:GLY:H	1.70	0.55
1:D:422:ASP:N	1:D:422:ASP:OD1	2.36	0.55
1:F:317:ALA:C	1:F:319:ALA:H	2.08	0.55
1:G:253:HIS:ND1	1:G:273:HIS:CD2	2.74	0.55
1:H:10:THR:HG23	1:H:21:PRO:HA	1.89	0.55
1:H:100:GLN:OE1	1:H:452:THR:OG1	2.24	0.55
1:E:213:ILE:HG22	1:E:213:ILE:O	2.05	0.55
1:B:73:MET:O	1:B:76:ALA:HB3	2.07	0.55
1:B:81:ILE:HG12	1:B:150:PHE:HE1	1.72	0.55
1:C:26:ILE:HD12	1:C:41:THR:OG1	2.07	0.55
1:C:92:VAL:O	1:C:96:GLU:HG3	2.07	0.55
1:D:412:THR:C	1:D:414:LYS:H	2.08	0.55
1:G:19:PRO:HG3	1:G:426:VAL:HG21	1.88	0.55
1:G:205:LEU:HD22	1:G:243:ALA:HB2	1.88	0.55
1:H:322:GLY:O	1:H:323:GLU:HG3	2.07	0.55
1:E:324:PRO:O	1:E:326:ALA:N	2.40	0.55
1:B:399[A]:ARG:HA	1:B:404:ALA:HB2	1.88	0.55
1:C:318:ALA:O	1:C:320:LEU:N	2.39	0.55
1:D:76:ALA:CB	1:D:77:GLY:CA	2.85	0.55
1:D:220:ARG:HG3	1:D:220:ARG:NH1	2.19	0.55
1:H:6:ILE:HG21	1:H:9:VAL:HG21	1.88	0.55
1:H:387:LEU:O	1:H:391:SER:OG	2.21	0.55
1:E:66:VAL:O	1:E:67:HIS:CD2	2.58	0.55
1:A:32:PHE:CD2	1:A:411:GLU:O	2.60	0.55
1:C:222:VAL:O	1:C:222:VAL:HG22	2.06	0.55
1:G:58:VAL:HG23	1:G:419:VAL:HB	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:361:ARG:O	1:H:362:GLU:C	2.45	0.55
1:H:435:ILE:CG2	1:H:438:VAL:HG23	2.37	0.55
1:A:303:HIS:HB2	1:A:374:HIS:HE1	1.69	0.55
1:B:330:ARG:O	1:B:334:SER:OG	2.24	0.55
1:B:386:PRO:HB2	1:B:426:VAL:HG13	1.87	0.55
1:F:111:PHE:CE1	1:F:138:PHE:CD2	2.95	0.55
1:F:198:LEU:HA	1:F:202:VAL:HG22	1.89	0.55
1:F:321:ALA:O	1:F:326:ALA:HB2	2.07	0.55
1:H:287:ILE:O	1:H:291:VAL:HG23	2.07	0.55
1:E:233:ARG:HA	1:E:236:LEU:HD12	1.87	0.54
1:E:429:ILE:HG23	1:E:430:ARG:N	2.22	0.54
1:A:92:VAL:HG12	1:C:131:ILE:HD11	1.89	0.54
1:A:194:VAL:CG2	1:A:239:MET:HE1	2.37	0.54
1:D:189:GLU:HB3	1:D:193:ARG:HH11	1.71	0.54
1:F:273:HIS:O	1:F:276:TYR:HB2	2.08	0.54
1:G:324:PRO:O	1:G:328:ASN:CB	2.55	0.54
1:H:379:MET:O	1:H:384:MET:N	2.37	0.54
1:A:144:VAL:HG22	1:A:178:VAL:HG11	1.88	0.54
1:A:235:VAL:O	1:A:239:MET:HG3	2.07	0.54
1:F:75:MET:N	1:F:76:ALA:CB	2.68	0.54
1:F:75:MET:HB3	1:F:76:ALA:HB2	1.89	0.54
1:G:153:ASP:O	1:G:212:HIS:ND1	2.40	0.54
1:G:391:SER:C	1:G:396:ASN:OD1	2.46	0.54
1:H:153:ASP:OD1	1:H:213:ILE:HG13	2.07	0.54
1:H:360:GLU:HG2	1:H:361:ARG:N	2.21	0.54
1:E:214:VAL:O	1:E:217:LEU:O	2.24	0.54
1:A:149:PRO:O	1:A:154:PHE:HB3	2.07	0.54
1:A:151:SER:OG	1:A:159:ARG:NH1	2.40	0.54
1:C:124:ARG:NH1	1:C:125:ASP:OD1	2.41	0.54
1:G:45:GLU:N	1:G:45:GLU:OE1	2.39	0.54
1:H:6:ILE:CG2	1:H:9:VAL:CG2	2.85	0.54
1:H:317:ALA:O	1:H:318:ALA:C	2.44	0.54
1:C:273:HIS:HA	1:C:300:GLN:HE21	1.72	0.54
1:D:76:ALA:HB3	1:D:77:GLY:CA	2.37	0.54
1:C:75:MET:O	1:C:76:ALA:HB3	2.08	0.54
1:C:117:ILE:HD13	1:C:200:ARG:HD3	1.88	0.54
1:D:182:LEU:HB3	1:D:231:PHE:CE2	2.42	0.54
1:D:301:THR:HG23	1:D:382:LYS:HZ3	1.71	0.54
1:G:158:GLY:HA2	1:G:161:ALA:HB3	1.89	0.54
1:E:9:VAL:O	1:E:23:THR:OG1	2.18	0.54
1:E:76:ALA:N	1:E:77:GLY:HA2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:264:VAL:HG11	1:E:293:SER:OG	2.07	0.54
1:E:284:ASN:O	1:E:285:TYR:CG	2.61	0.54
1:C:70:ASP:OD2	1:C:73:MET:HB2	2.06	0.54
1:F:209:VAL:HB	1:F:253:HIS:O	2.07	0.54
1:H:6:ILE:HD13	1:H:57:MET:SD	2.48	0.54
1:H:296:TRP:CD2	1:H:338:LYS:HB3	2.42	0.54
1:H:457:THR:HA	1:H:459:HIS:CD2	2.42	0.54
1:E:340:LEU:HD11	1:E:397:VAL:HA	1.89	0.54
1:B:231:PHE:HB2	1:B:236:LEU:HD13	1.90	0.54
1:C:74:PHE:CD1	1:C:74:PHE:N	2.73	0.54
1:D:75:MET:HE2	1:D:212:HIS:CE1	2.43	0.54
1:H:435:ILE:HG21	1:H:438:VAL:HG23	1.90	0.54
1:A:74:PHE:C	1:A:76:ALA:N	2.59	0.54
1:C:117:ILE:O	1:C:121:LEU:HB2	2.08	0.54
1:F:126:ARG:HH11	1:F:132:SER:HG	1.55	0.54
1:F:268:ALA:O	1:F:295:SER:HB3	2.06	0.54
1:D:227:SER:C	1:D:228:TYR:HD1	2.12	0.54
1:D:404:ALA:O	1:D:414:LYS:NZ	2.38	0.54
1:E:102:ALA:HB1	1:E:107:VAL:HB	1.91	0.54
1:E:307:ARG:NH2	1:E:311:GLU:OE1	2.41	0.54
1:B:190:VAL:HG11	1:B:239:MET:HE3	1.89	0.54
1:C:163:THR:HB	1:C:166:PHE:HB3	1.89	0.54
1:C:254:SER:HB2	1:C:259:ALA:HB1	1.90	0.54
1:F:4:ILE:HG22	1:F:48:THR:HB	1.90	0.54
1:F:290:ILE:HG23	1:F:291:VAL:H	1.73	0.54
1:E:87:TRP:CZ2	1:E:455:LEU:O	2.61	0.53
1:B:38:SER:OG	1:B:39:ASP:N	2.40	0.53
1:D:72:TRP:O	1:D:73:MET:HB3	2.07	0.53
1:D:75:MET:CE	1:D:212:HIS:CE1	2.91	0.53
1:D:97:GLU:HA	1:D:100:GLN:NE2	2.23	0.53
1:D:208:ALA:CB	1:D:253:HIS:HD2	2.21	0.53
1:D:224:PHE:HE1	1:D:325:TYR:HH	1.54	0.53
1:F:220:ARG:NH2	1:F:314:GLY:O	2.41	0.53
1:H:424:ASP:OD1	1:H:426:VAL:N	2.38	0.53
1:H:436:THR:OG1	1:H:437:GLU:N	2.40	0.53
1:H:453:THR:HG22	1:H:454:PRO:HD2	1.90	0.53
1:E:38:SER:OG	1:E:39:ASP:OD1	2.25	0.53
1:E:40:SER:OG	1:E:42:PRO:HA	2.08	0.53
1:A:194:VAL:CG2	1:A:239:MET:CE	2.75	0.53
1:D:206:LYS:HG3	1:D:251:LEU:HB2	1.90	0.53
1:G:407:ILE:HG23	1:G:415:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:231:PHE:CE2	1:H:239:MET:HE3	2.43	0.53
1:H:439:PHE:CE1	1:H:444:ALA:HB2	2.42	0.53
1:B:303:HIS:CD2	1:B:377:GLN:HG2	2.43	0.53
1:C:217:LEU:CD2	1:C:224:PHE:CB	2.86	0.53
1:F:5:ALA:HA	1:F:26:ILE:HA	1.90	0.53
1:G:10:THR:HG23	1:G:10:THR:O	2.07	0.53
1:G:15:LEU:HD11	1:G:411:GLU:OE2	2.08	0.53
1:G:15:LEU:HA	1:G:395:ILE:HD11	1.90	0.53
1:H:10:THR:O	1:H:56:TRP:HA	2.07	0.53
1:A:100:GLN:OE1	1:A:451:PRO:HB2	2.07	0.53
1:A:346:GLY:O	1:A:368:ILE:N	2.41	0.53
1:D:13:ASP:OD1	1:D:14:GLY:N	2.42	0.53
1:F:6:ILE:N	1:F:25:VAL:O	2.42	0.53
1:F:75:MET:HE1	1:F:212:HIS:CE1	2.43	0.53
1:H:77:GLY:O	1:H:155:HIS:CG	2.60	0.53
1:H:86:ARG:HG2	1:H:87:TRP:CE2	2.43	0.53
1:D:38:SER:HB3	1:D:41:THR:HG22	1.89	0.53
1:D:182:LEU:HB3	1:D:231:PHE:HE2	1.74	0.53
1:F:7:THR:O	1:F:52:GLY:HA3	2.08	0.53
1:F:273:HIS:ND1	1:F:276:TYR:CE2	2.76	0.53
1:F:290:ILE:HD12	1:F:337:ALA:HA	1.91	0.53
1:E:75:MET:CE	1:E:316:TRP:HH2	2.20	0.53
1:E:76:ALA:HB3	1:E:77:GLY:HA2	1.91	0.53
1:B:391:SER:OG	1:B:391:SER:O	2.24	0.53
1:D:252:THR:HG21	1:D:263:SER:HB3	1.90	0.53
1:D:283:PRO:HB2	1:D:285:TYR:CD2	2.44	0.53
1:D:339:ILE:HD13	1:D:384:MET:HE3	1.91	0.53
1:D:343:THR:O	1:D:343:THR:OG1	2.26	0.53
1:H:68:LEU:CB	1:H:95:ILE:HG23	2.39	0.53
1:A:37:PRO:HB2	1:A:38:SER:O	2.08	0.53
1:B:365:PRO:HG3	1:B:374:HIS:CE1	2.44	0.53
1:H:30:ASP:O	1:H:31:ARG:CB	2.56	0.53
1:H:103:LEU:HD21	1:H:445:VAL:HG21	1.90	0.53
1:E:224:PHE:CD2	1:E:325:TYR:OH	2.48	0.53
1:A:283:PRO:O	1:A:287:ILE:HD12	2.09	0.53
1:B:22:ALA:O	1:B:37:PRO:CB	2.47	0.53
1:B:138:PHE:HA	1:B:203:ASP:OD2	2.08	0.53
1:C:117:ILE:HG13	1:C:121:LEU:HD12	1.90	0.53
1:D:380:VAL:HG13	1:D:384:MET:O	2.09	0.53
1:F:206:LYS:HB2	1:F:251:LEU:HD12	1.90	0.53
1:G:72:TRP:O	1:G:75:MET:HE2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:94:VAL:HG13	1:G:456:VAL:CG2	2.39	0.53
1:A:287:ILE:HG22	1:A:291:VAL:HG21	1.90	0.53
1:B:76:ALA:H	1:B:77:GLY:HA2	1.73	0.53
1:D:278:LEU:HA	1:D:325:TYR:HE1	1.71	0.53
1:D:351:ASP:O	1:D:354:ALA:N	2.42	0.53
1:D:412:THR:HG22	1:D:413:GLY:N	2.23	0.53
1:G:6:ILE:CG2	1:G:25:VAL:H	2.21	0.53
1:G:124:ARG:HG3	1:G:125:ASP:N	2.23	0.53
1:H:31:ARG:HH11	1:H:415:LEU:CD1	2.20	0.53
1:H:45:GLU:HG3	1:H:45:GLU:O	2.09	0.53
1:H:64:GLY:HA2	1:H:111:PHE:HD2	1.73	0.53
1:H:96:GLU:HG2	1:H:127:ILE:HD11	1.89	0.53
1:H:253:HIS:HD2	1:H:273:HIS:HE1	1.48	0.53
1:A:14:GLY:HA3	1:A:59:PRO:HG2	1.91	0.53
1:A:299:LEU:HD22	1:A:329:GLU:HB2	1.91	0.53
1:A:373:PHE:O	1:A:377:GLN:HG2	2.08	0.53
1:B:348:PRO:HG2	1:B:353:LEU:HD21	1.90	0.53
1:C:41:THR:HB	1:C:42:PRO:O	2.09	0.53
1:G:71:ALA:O	1:G:74:PHE:HB2	2.09	0.53
1:G:324:PRO:O	1:G:328:ASN:HB3	2.09	0.53
1:E:296:TRP:CE3	1:E:338:LYS:HB3	2.44	0.52
1:B:68:LEU:HB3	1:B:95:ILE:HG23	1.91	0.52
1:C:41:THR:HB	1:C:42:PRO:C	2.29	0.52
1:C:91:TYR:HE2	1:C:173:MET:HE1	1.75	0.52
1:F:45:GLU:HG2	1:F:46:GLY:N	2.24	0.52
1:F:70:ASP:OD1	1:F:72:TRP:N	2.42	0.52
1:F:277:THR:O	1:F:278:LEU:HB2	2.09	0.52
1:F:395:ILE:O	1:F:399:ARG:N	2.29	0.52
1:G:252:THR:HG21	1:G:271:LEU:HD22	1.91	0.52
1:H:56:TRP:CZ2	1:H:424:ASP:HB2	2.44	0.52
1:H:61:TYR:CD2	1:H:372:HIS:NE2	2.78	0.52
1:B:257:VAL:HG23	1:B:277:THR:OG1	2.09	0.52
1:C:86:ARG:HA	1:H:86:ARG:HB2	1.90	0.52
1:D:303:HIS:HB3	1:D:306:HIS:H	1.74	0.52
1:F:205:LEU:O	1:F:250:VAL:HA	2.08	0.52
1:E:264:VAL:HG11	1:E:293:SER:CB	2.38	0.52
1:E:278:LEU:HA	1:E:325:TYR:CE1	2.43	0.52
1:B:340:LEU:HD12	1:B:397:VAL:HA	1.91	0.52
1:C:25:VAL:HG21	1:C:57:MET:CE	2.40	0.52
1:F:303:HIS:NE2	1:F:377:GLN:OE1	2.43	0.52
1:H:20:ARG:HB3	1:H:23:THR:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:30:ASP:N	1:H:442:GLY:HA3	2.20	0.52
1:E:411:GLU:HB3	1:E:414:LYS:HD2	1.90	0.52
1:A:63:ASN:HA	1:A:341:LEU:CD2	2.39	0.52
1:C:28:GLU:O	1:C:29:GLY:C	2.47	0.52
1:F:427:ASP:O	1:F:428:ASP:CB	2.41	0.52
1:H:194:VAL:O	1:H:198:LEU:HD13	2.10	0.52
1:H:453:THR:O	1:H:455:LEU:N	2.40	0.52
1:E:73:MET:O	1:E:76:ALA:HB3	2.08	0.52
1:E:286:LEU:O	1:E:290:ILE:HG13	2.10	0.52
1:E:323:GLU:CB	1:E:324:PRO:CD	2.83	0.52
1:A:124:ARG:NH2	1:A:201:GLY:O	2.38	0.52
1:D:10:THR:HB	1:D:56:TRP:CD1	2.44	0.52
1:D:32:PHE:CE1	1:D:415:LEU:O	2.59	0.52
1:D:278:LEU:CA	1:D:325:TYR:HE1	2.23	0.52
1:D:341:LEU:H	1:D:397:VAL:CG1	2.23	0.52
1:F:117:ILE:HG21	1:F:200:ARG:HD2	1.91	0.52
1:F:140:ALA:HB2	1:F:204:MET:HE2	1.90	0.52
1:H:224:PHE:N	1:H:224:PHE:CD1	2.76	0.52
1:H:235:VAL:O	1:H:238:VAL:HG12	2.10	0.52
1:E:87:TRP:CH2	1:E:455:LEU:O	2.63	0.52
1:E:207:ILE:CD1	1:E:236:LEU:HD23	2.39	0.52
1:E:385:SER:O	1:E:387:LEU:N	2.43	0.52
1:A:69:LEU:HD11	1:A:91:TYR:HB3	1.92	0.52
1:B:206:LYS:HE3	1:B:272:ILE:HG13	1.90	0.52
1:B:315:SER:OG	1:B:360:GLU:OE2	2.25	0.52
1:C:70:ASP:CG	1:C:71:ALA:H	2.13	0.52
1:D:36:GLY:HA3	1:D:41:THR:CG2	2.39	0.52
1:H:186:PRO:HG2	1:H:189:GLU:HG3	1.91	0.52
1:H:206:LYS:HA	1:H:251:LEU:HB2	1.90	0.52
1:B:292:ALA:O	1:B:294:ASP:OD1	2.28	0.52
1:D:350:LYS:HD2	1:D:459:HIS:HA	1.92	0.52
1:F:270:VAL:HG22	1:F:340:LEU:HD11	1.90	0.52
1:E:45:GLU:C	1:E:47:ALA:N	2.61	0.52
1:E:252:THR:CG2	1:E:271:LEU:HA	2.29	0.52
1:C:298:GLY:HA3	1:C:342:ASN:ND2	2.24	0.52
1:C:446:ASP:O	1:C:450:LEU:HD12	2.09	0.52
1:D:103:LEU:HD21	1:D:445:VAL:HG21	1.92	0.52
1:D:181:GLN:CG	1:D:182:LEU:H	2.23	0.52
1:F:59:PRO:CG	1:F:394:THR:HG21	2.40	0.52
1:G:303:HIS:O	1:G:307:ARG:HB3	2.10	0.52
1:H:232:SER:OG	1:H:235:VAL:CG2	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:232:SER:HG	1:H:235:VAL:HG23	1.73	0.52
1:E:307:ARG:CZ	1:E:311:GLU:OE1	2.58	0.52
1:A:66:VAL:HA	1:A:345:ALA:CB	2.39	0.52
1:A:235:VAL:HA	1:A:238:VAL:HG12	1.90	0.52
1:B:135:ALA:O	1:B:137:ILE:HG13	2.09	0.52
1:D:252:THR:HG21	1:D:263:SER:CB	2.39	0.52
1:F:300:GLN:OE1	1:F:344:ASP:OD1	2.28	0.52
1:G:348:PRO:HG2	1:G:353:LEU:HG	1.92	0.52
1:H:32:PHE:N	1:H:414:LYS:O	2.31	0.52
1:A:213:ILE:HG23	1:A:216:THR:CG2	2.40	0.52
1:A:276:TYR:CE1	1:A:320:LEU:HD22	2.45	0.52
1:B:30:ASP:O	1:B:31:ARG:O	2.28	0.52
1:C:144:VAL:HG13	1:C:178:VAL:HG13	1.91	0.52
1:D:148:GLY:HA3	1:D:171:ASP:HB3	1.92	0.52
1:D:222:VAL:CG2	1:D:223:GLY:H	2.23	0.52
1:E:226:ARG:CD	1:E:228:TYR:CE2	2.89	0.51
1:A:271:LEU:HD13	1:A:297:ALA:HA	1.90	0.51
1:B:56:TRP:O	1:B:420:LEU:HA	2.09	0.51
1:B:143:ILE:HG22	1:B:208:ALA:HB2	1.92	0.51
1:C:255:VAL:O	1:C:278:LEU:HG	2.10	0.51
1:G:129:ALA:HB3	1:G:131:ILE:CG1	2.37	0.51
1:H:107:VAL:HG23	1:H:372:HIS:HE1	1.66	0.51
1:E:329:GLU:OE1	1:E:382:LYS:HE3	2.11	0.51
1:B:64:GLY:CA	1:B:397:VAL:HG11	2.40	0.51
1:C:97:GLU:OE1	1:C:456:VAL:HG12	2.09	0.51
1:D:36:GLY:CA	1:D:41:THR:HG21	2.41	0.51
1:D:181:GLN:HG2	1:D:182:LEU:H	1.75	0.51
1:F:70:ASP:O	1:F:74:PHE:CE2	2.63	0.51
1:F:225:ASP:O	1:F:226:ARG:CB	2.55	0.51
1:H:255:VAL:C	1:H:278:LEU:CD1	2.79	0.51
1:E:252:THR:HG21	1:E:263:SER:HB3	1.92	0.51
1:A:287:ILE:O	1:A:291:VAL:N	2.39	0.51
1:B:77:GLY:HA3	1:B:155:HIS:CB	2.41	0.51
1:B:127:ILE:HD12	1:B:137:ILE:HD11	1.91	0.51
1:B:301:THR:OG1	1:B:378:SER:OG	2.10	0.51
1:C:105:ASN:OD1	1:C:373:PHE:CE2	2.63	0.51
1:D:143:ILE:HG23	1:D:206:LYS:HB3	1.91	0.51
1:D:220:ARG:C	1:D:222:VAL:HG12	2.30	0.51
1:G:143:ILE:HG12	1:G:206:LYS:HD3	1.91	0.51
1:H:31:ARG:HH11	1:H:415:LEU:HG	1.75	0.51
1:H:263:SER:O	1:H:266:LEU:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:285:TYR:CE1	1:H:286:LEU:HD12	2.45	0.51
1:A:151:SER:HA	1:A:156:PHE:HD1	1.75	0.51
1:A:204:MET:HB3	1:A:249:PRO:HG2	1.92	0.51
1:B:113:THR:HA	1:B:140:ALA:HB2	1.91	0.51
1:C:153:ASP:HB3	1:C:212:HIS:HB3	1.91	0.51
1:D:37:PRO:O	1:D:39:ASP:O	2.28	0.51
1:D:90:ARG:NH2	1:D:93:GLU:OE2	2.44	0.51
1:D:227:SER:O	1:D:228:TYR:HD1	1.92	0.51
1:D:341:LEU:HA	1:D:375:TRP:CZ2	2.46	0.51
1:F:209:VAL:HG11	1:F:259:ALA:O	2.10	0.51
1:F:257:VAL:CG2	1:F:277:THR:HG21	2.39	0.51
1:F:303:HIS:NE2	1:F:377:GLN:CD	2.64	0.51
1:F:341:LEU:HA	1:F:375:TRP:CZ2	2.45	0.51
1:A:209:VAL:N	1:A:253:HIS:O	2.43	0.51
1:A:310:LEU:HD22	1:A:360:GLU:HG2	1.93	0.51
1:B:117:ILE:HD13	1:B:200:ARG:HD2	1.92	0.51
1:B:391:SER:HB2	1:B:394:THR:CG2	2.38	0.51
1:C:26:ILE:HD11	1:C:41:THR:OG1	2.09	0.51
1:F:118:GLU:HG2	1:F:119:PRO:HD3	1.92	0.51
1:F:409:SER:OG	1:F:414:LYS:HE3	2.10	0.51
1:H:67:HIS:HA	1:H:112:ASP:OD1	2.10	0.51
1:E:419:VAL:CG2	1:E:435:ILE:HG23	2.41	0.51
1:A:68:LEU:HD11	1:A:137:ILE:HD12	1.92	0.51
1:F:388:GLU:OE1	1:F:388:GLU:N	2.44	0.51
1:E:140:ALA:HB2	1:E:204:MET:HG2	1.91	0.51
1:E:213:ILE:HG21	1:E:216:THR:CG2	2.40	0.51
1:D:118:GLU:HB2	1:D:119:PRO:HD3	1.93	0.51
1:F:409:SER:O	1:F:414:LYS:HD2	2.11	0.51
1:H:333:ILE:HG21	1:H:384:MET:HG3	1.93	0.51
1:E:121:LEU:HD11	1:E:202:VAL:HG12	1.92	0.51
1:E:259:ALA:O	1:E:262:THR:N	2.44	0.51
1:E:272:ILE:HG22	1:E:273:HIS:ND1	2.26	0.51
1:A:302:VAL:HB	1:A:321:ALA:HA	1.92	0.51
1:C:143:ILE:HB	1:C:146:MET:HG3	1.93	0.51
1:F:356:LEU:HD23	1:F:360:GLU:OE1	2.11	0.51
1:E:180:HIS:CG	1:E:181:GLN:H	2.28	0.51
1:E:258:GLU:O	1:E:260:LEU:N	2.44	0.51
1:E:284:ASN:OD1	1:E:285:TYR:N	2.44	0.51
1:E:298:GLY:HA3	1:E:342:ASN:ND2	2.26	0.51
1:B:100:GLN:HG2	1:B:450:LEU:HD11	1.93	0.51
1:D:181:GLN:C	1:D:183:SER:H	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:68:LEU:CB	1:G:95:ILE:CG2	2.70	0.51
1:H:77:GLY:O	1:H:155:HIS:NE2	2.43	0.51
1:E:117:ILE:HG23	1:E:121:LEU:HD13	1.93	0.51
1:E:213:ILE:CG2	1:E:216:THR:HB	2.41	0.51
1:A:258:GLU:C	1:A:260:LEU:H	2.15	0.51
1:B:155:HIS:C	1:B:155:HIS:CD2	2.84	0.51
1:B:391:SER:H	1:B:393:ALA:N	2.08	0.51
1:C:399[B]:ARG:HH11	1:C:404:ALA:HB1	1.75	0.51
1:D:218:VAL:HG23	1:D:218:VAL:O	2.11	0.51
1:F:261:ASP:HB2	1:F:286:LEU:HD11	1.93	0.51
1:G:144:VAL:HG11	1:G:239:MET:HE1	1.93	0.51
1:H:152:ALA:HB1	1:H:213:ILE:HG12	1.93	0.51
1:H:328:ASN:C	1:H:328:ASN:HD22	2.13	0.51
1:A:221:SER:OG	1:G:44:PRO:HB3	2.11	0.50
1:A:288:ASP:HA	1:A:291:VAL:CB	2.40	0.50
1:C:186:PRO:O	1:C:190:VAL:HG23	2.11	0.50
1:C:204:MET:HB2	1:C:251:LEU:HD11	1.93	0.50
1:C:226:ARG:HG2	1:C:228:TYR:CZ	2.46	0.50
1:D:301:THR:CG2	1:D:302:VAL:N	2.73	0.50
1:F:61:TYR:HH	1:F:432:LEU:HD22	1.73	0.50
1:F:144:VAL:HA	1:F:178:VAL:HG11	1.92	0.50
1:F:203:ASP:C	1:F:204:MET:HG3	2.31	0.50
1:H:70:ASP:O	1:H:74:PHE:CD1	2.64	0.50
1:E:55:ARG:HG2	1:E:422:ASP:OD1	2.11	0.50
1:E:332:LEU:O	1:E:337:ALA:HB3	2.11	0.50
1:E:385:SER:OG	1:E:388:GLU:CD	2.49	0.50
1:A:70:ASP:CG	1:A:71:ALA:H	2.08	0.50
1:A:191:ARG:HD2	1:A:238:VAL:HG23	1.89	0.50
1:B:146:MET:SD	1:B:212:HIS:CD2	3.05	0.50
1:B:203:ASP:O	1:B:248:VAL:HB	2.12	0.50
1:C:7:THR:O	1:C:8:ASN:OD1	2.29	0.50
1:C:191:ARG:HB2	1:C:238:VAL:CG1	2.40	0.50
1:C:421:LEU:CD1	1:C:425:PRO:HG3	2.40	0.50
1:D:36:GLY:HA3	1:D:41:THR:HG23	1.92	0.50
1:D:92:VAL:HG22	1:D:119:PRO:HA	1.93	0.50
1:D:150:PHE:O	1:D:159:ARG:HG2	2.11	0.50
1:F:25:VAL:HG22	1:F:35:VAL:HG13	1.93	0.50
1:F:113:THR:HG21	1:F:206:LYS:HZ3	1.76	0.50
1:B:280:GLN:H	1:B:280:GLN:CD	2.13	0.50
1:D:222:VAL:HG22	1:D:223:GLY:O	2.11	0.50
1:D:430:ARG:O	1:D:433:ARG:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:452:THR:O	1:G:454:PRO:HD3	2.10	0.50
1:H:101:LEU:HD21	1:H:104:ARG:HH21	1.77	0.50
1:H:340:LEU:CD2	1:H:397:VAL:HG13	2.41	0.50
1:A:235:VAL:HA	1:A:238:VAL:HG11	1.93	0.50
1:C:6:ILE:CG2	1:C:25:VAL:CA	2.89	0.50
1:C:104:ARG:HG2	1:C:447:ARG:NH1	2.26	0.50
1:D:148:GLY:O	1:D:154:PHE:CD2	2.48	0.50
1:D:276:TYR:CD1	1:D:325:TYR:HB3	2.47	0.50
1:F:118:GLU:HG3	1:F:119:PRO:HD3	1.93	0.50
1:G:421:LEU:HD13	1:G:432:LEU:HA	1.92	0.50
1:H:6:ILE:HG21	1:H:25:VAL:CG1	2.41	0.50
1:H:182:LEU:HD12	1:H:231:PHE:HZ	1.75	0.50
1:H:240:VAL:HG12	1:H:241:GLU:H	1.76	0.50
1:B:7:THR:HA	1:B:24:THR:HG23	1.92	0.50
1:B:356:LEU:O	1:B:361:ARG:NH1	2.44	0.50
1:C:171:ASP:O	1:C:175:GLU:HG3	2.11	0.50
1:C:394:THR:OG1	1:C:395:ILE:N	2.44	0.50
1:F:35:VAL:HG23	1:F:412:THR:HG22	1.94	0.50
1:F:153:ASP:HB3	1:F:212:HIS:HB3	1.94	0.50
1:G:37:PRO:HA	1:G:41:THR:HG23	1.94	0.50
1:G:61:TYR:HB2	1:G:107:VAL:HA	1.93	0.50
1:G:90:ARG:HD3	1:G:455:LEU:HD21	1.94	0.50
1:H:30:ASP:O	1:H:31:ARG:HB2	2.12	0.50
1:H:360:GLU:CG	1:H:361:ARG:N	2.75	0.50
1:E:252:THR:HG21	1:E:271:LEU:CD2	2.42	0.50
1:E:285:TYR:CD1	1:E:285:TYR:C	2.84	0.50
1:B:273:HIS:O	1:B:273:HIS:ND1	2.44	0.50
1:C:96:GLU:O	1:C:100:GLN:HG3	2.10	0.50
1:D:412:THR:CG2	1:D:413:GLY:N	2.75	0.50
1:F:224:PHE:N	1:F:224:PHE:CD1	2.80	0.50
1:A:251:LEU:HD11	1:A:270:VAL:CB	2.30	0.50
1:B:68:LEU:CB	1:B:95:ILE:HG23	2.42	0.50
1:C:417:ASP:HA	1:C:439:PHE:O	2.12	0.50
1:D:180:HIS:O	1:D:181:GLN:CB	2.60	0.50
1:H:456:VAL:HG13	1:H:457:THR:H	1.76	0.50
1:E:45:GLU:O	1:E:47:ALA:HB2	2.11	0.50
1:D:70:ASP:OD2	1:D:72:TRP:O	2.29	0.50
1:D:328:ASN:O	1:D:331:ASN:CB	2.58	0.50
1:D:387:LEU:O	1:D:390:ILE:CB	2.58	0.50
1:F:282:ILE:HB	1:F:283:PRO:HA	1.94	0.50
1:G:269:ASP:N	1:G:269:ASP:OD1	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:317:ALA:O	1:H:320:LEU:N	2.44	0.50
1:E:371:ASP:OD1	1:E:372:HIS:ND1	2.42	0.50
1:B:67:HIS:HA	1:B:112:ASP:OD1	2.12	0.50
1:C:131:ILE:HD13	1:C:131:ILE:N	2.26	0.50
1:D:206:LYS:HE3	1:D:272:ILE:HG13	1.93	0.50
1:D:276:TYR:HD1	1:D:325:TYR:HB3	1.77	0.50
1:F:428:ASP:OD2	1:F:430:ARG:HD3	2.09	0.50
1:H:97:GLU:OE1	1:H:451:PRO:HB2	2.12	0.50
1:H:429:ILE:HG13	1:H:432:LEU:HD13	1.93	0.50
1:H:435:ILE:HG21	1:H:438:VAL:CG2	2.42	0.50
1:E:429:ILE:C	1:E:431:ASN:H	2.14	0.49
1:B:84:LEU:HD12	1:B:150:PHE:CZ	2.47	0.49
1:B:153:ASP:CB	1:B:212:HIS:HB3	2.42	0.49
1:C:274:ALA:HB3	1:C:298:GLY:O	2.12	0.49
1:D:6:ILE:CA	1:D:50:VAL:CG1	2.74	0.49
1:D:56:TRP:CZ2	1:D:424:ASP:HB2	2.47	0.49
1:F:356:LEU:HD23	1:F:360:GLU:CD	2.33	0.49
1:G:303:HIS:HB2	1:G:306:HIS:CB	2.42	0.49
1:G:303:HIS:HB2	1:G:306:HIS:HB2	1.94	0.49
1:G:344:ASP:O	1:G:345:ALA:HB2	2.11	0.49
1:G:367:THR:HG22	1:G:369:GLY:H	1.77	0.49
1:H:455:LEU:HD12	1:H:456:VAL:H	1.76	0.49
1:A:217:LEU:HG	1:A:225:ASP:H	1.78	0.49
1:A:459:HIS:CB	1:A:460:PRO:CA	2.85	0.49
1:B:165:THR:O	1:B:169:ARG:HB2	2.11	0.49
1:F:146:MET:SD	1:F:212:HIS:CD2	3.04	0.49
1:E:217:LEU:HD21	1:E:223:GLY:O	2.13	0.49
1:B:143:ILE:HG23	1:B:206:LYS:HB3	1.95	0.49
1:B:384:MET:CE	1:B:389:ALA:HA	2.42	0.49
1:C:14:GLY:O	1:C:395:ILE:HD11	2.12	0.49
1:D:32:PHE:CD2	1:D:412:THR:N	2.73	0.49
1:G:127:ILE:CG1	1:G:128:ASN:N	2.74	0.49
1:G:379:MET:HB3	1:G:384:MET:SD	2.52	0.49
1:E:145:GLY:C	1:E:179:GLY:HA2	2.33	0.49
1:A:409:SER:O	1:A:414:LYS:NZ	2.35	0.49
1:B:66:VAL:HG22	1:B:110:VAL:CG2	2.43	0.49
1:B:260:LEU:O	1:B:264:VAL:HG23	2.11	0.49
1:C:253:HIS:HD1	1:C:273:HIS:CE1	2.29	0.49
1:D:237:GLU:HA	1:D:240:VAL:HG22	1.95	0.49
1:D:337:ALA:O	1:D:338:LYS:HB2	2.12	0.49
1:F:10:THR:HA	1:F:21:PRO:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:263:SER:HA	1:F:266:LEU:CD1	2.42	0.49
1:F:302:VAL:HG12	1:F:303:HIS:H	1.77	0.49
1:G:111:PHE:CE2	1:G:397:VAL:HG12	2.47	0.49
1:H:233:ARG:O	1:H:237:GLU:HG3	2.12	0.49
1:H:368:ILE:HA	1:H:371:ASP:HB2	1.94	0.49
1:E:61:TYR:OH	1:E:432:LEU:HB3	2.13	0.49
1:A:27:VAL:HG12	1:A:31:ARG:O	2.13	0.49
1:A:91:TYR:HE2	1:A:173:MET:HE1	1.78	0.49
1:D:148:GLY:C	1:D:154:PHE:HD2	2.14	0.49
1:H:182:LEU:HD13	1:H:239:MET:CE	2.41	0.49
1:H:341:LEU:HD12	1:H:375:TRP:CE3	2.48	0.49
1:E:293:SER:O	1:E:294:ASP:HB3	2.12	0.49
1:A:252:THR:HG22	1:A:270:VAL:O	2.12	0.49
1:A:315:SER:O	1:A:316:TRP:HB3	2.13	0.49
1:B:153:ASP:HA	1:B:212:HIS:O	2.12	0.49
1:B:256:SER:OG	1:B:258:GLU:O	2.28	0.49
1:C:377:GLN:HA	1:C:429:ILE:HG21	1.95	0.49
1:F:121:LEU:HD22	1:F:124:ARG:HE	1.77	0.49
1:F:428:ASP:CG	1:F:430:ARG:CD	2.79	0.49
1:G:6:ILE:CD1	1:G:9:VAL:HG11	2.43	0.49
1:H:23:THR:CG2	1:H:37:PRO:HG3	2.40	0.49
1:H:175:GLU:O	1:H:178:VAL:CG2	2.60	0.49
1:B:66:VAL:HG22	1:B:110:VAL:HG22	1.94	0.49
1:B:111:PHE:CD2	1:B:204:MET:HE1	2.44	0.49
1:D:282:ILE:HB	1:D:287:ILE:HD11	1.94	0.49
1:H:277:THR:CG2	1:H:282:ILE:HG12	2.42	0.49
1:A:74:PHE:C	1:A:76:ALA:H	2.16	0.49
1:B:209:VAL:HG13	1:B:236:LEU:HD21	1.93	0.49
1:C:205:LEU:O	1:C:251:LEU:CD1	2.60	0.49
1:D:6:ILE:HG23	1:D:50:VAL:CG1	2.42	0.49
1:D:152:ALA:O	1:D:153:ASP:HB2	2.12	0.49
1:D:208:ALA:HA	1:D:253:HIS:HB3	1.95	0.49
1:F:109:THR:OG1	1:F:136:ARG:NH2	2.46	0.49
1:F:282:ILE:HD12	1:F:282:ILE:H	1.78	0.49
1:G:68:LEU:HB2	1:G:95:ILE:HG23	1.91	0.49
1:H:55:ARG:HD3	1:H:420:LEU:CD1	2.43	0.49
1:E:212:HIS:O	1:E:213:ILE:CG1	2.61	0.49
1:A:28:GLU:HG3	1:A:28:GLU:O	2.12	0.49
1:A:140:ALA:O	1:A:197:TYR:OH	2.24	0.49
1:A:145:GLY:N	1:A:179:GLY:HA2	2.26	0.49
1:A:254:SER:CB	1:A:259:ALA:CB	2.84	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:346:GLY:O	1:A:368:ILE:HB	2.12	0.49
1:A:445:VAL:C	1:A:447:ARG:HH12	2.09	0.49
1:F:68:LEU:CD1	1:F:95:ILE:HG23	2.37	0.49
1:H:75:MET:SD	1:H:215:PHE:CE2	3.06	0.49
1:H:253:HIS:NE2	1:H:273:HIS:CE1	2.69	0.49
1:B:145:GLY:H	1:B:179:GLY:HA2	1.78	0.49
1:B:340:LEU:HG	1:B:397:VAL:HG13	1.95	0.49
1:E:286:LEU:HA	1:E:289:LYS:HB3	1.94	0.48
1:A:117:ILE:HD13	1:A:200:ARG:HE	1.78	0.48
1:A:126:ARG:HH11	1:A:126:ARG:CG	2.22	0.48
1:A:282:ILE:HG23	1:A:328:ASN:OD1	2.13	0.48
1:B:365:PRO:HG3	1:B:374:HIS:NE2	2.28	0.48
1:B:395:ILE:CD1	1:B:399[B]:ARG:NH2	2.75	0.48
1:C:206:LYS:HZ1	1:C:253:HIS:HB2	1.78	0.48
1:C:428:ASP:HB3	1:C:431:ASN:ND2	2.28	0.48
1:D:303:HIS:CB	1:D:306:HIS:H	2.26	0.48
1:F:325:TYR:O	1:F:329:GLU:CD	2.48	0.48
1:G:6:ILE:CD1	1:G:9:VAL:CG2	2.91	0.48
1:G:112:ASP:OD2	1:G:115:ASN:ND2	2.37	0.48
1:H:155:HIS:HE1	1:H:157:ALA:HB3	1.77	0.48
1:H:283:PRO:HD2	1:H:286:LEU:HD13	1.95	0.48
1:E:40:SER:O	1:E:41:THR:OG1	2.29	0.48
1:A:82:GLU:OE2	1:F:162:ALA:HB1	2.14	0.48
1:A:251:LEU:HA	1:A:270:VAL:HB	1.95	0.48
1:C:303:HIS:CE1	1:C:306:HIS:HB2	2.48	0.48
1:D:20:ARG:O	1:D:23:THR:CG2	2.61	0.48
1:G:76:ALA:HB1	1:G:77:GLY:C	2.33	0.48
1:B:254:SER:O	1:B:273:HIS:CE1	2.66	0.48
1:B:309:GLY:O	1:B:312:ASP:HB2	2.13	0.48
1:D:156:PHE:O	1:D:159:ARG:HG3	2.12	0.48
1:F:145:GLY:HA2	1:F:179:GLY:O	2.13	0.48
1:G:142:THR:OG1	1:G:143:ILE:N	2.46	0.48
1:H:231:PHE:CE2	1:H:239:MET:CE	2.95	0.48
1:H:350:LYS:HB3	1:H:459:HIS:CE1	2.48	0.48
1:E:341:LEU:HD13	1:E:375:TRP:CE3	2.49	0.48
1:A:149:PRO:HA	1:A:154:PHE:CD2	2.48	0.48
1:A:374:HIS:C	1:A:374:HIS:CD2	2.87	0.48
1:B:165:THR:HG21	1:G:354:ALA:HB3	1.95	0.48
1:B:387:LEU:CB	1:B:388:GLU:HA	2.43	0.48
1:B:399[B]:ARG:HH11	1:B:399[B]:ARG:CG	2.25	0.48
1:C:67:HIS:CE1	1:C:114:HIS:HB3	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:30:ASP:O	1:F:416:ALA:N	2.44	0.48
1:F:210:SER:HA	1:F:229:GLN:HA	1.95	0.48
1:F:303:HIS:CE1	1:F:377:GLN:HG2	2.48	0.48
1:G:207:ILE:HD12	1:G:239:MET:SD	2.54	0.48
1:A:288:ASP:HA	1:A:291:VAL:CG2	2.43	0.48
1:A:456:VAL:O	1:A:456:VAL:HG12	2.13	0.48
1:C:4:ILE:CG2	1:C:5:ALA:H	2.25	0.48
1:C:4:ILE:CG2	1:C:5:ALA:N	2.75	0.48
1:D:259:ALA:CA	1:D:262:THR:HG22	2.44	0.48
1:G:37:PRO:HA	1:G:41:THR:CG2	2.44	0.48
1:G:325:TYR:O	1:G:329:GLU:N	2.44	0.48
1:H:75:MET:SD	1:H:215:PHE:HE2	2.36	0.48
1:H:275:ASN:OD1	1:H:329:GLU:CG	2.58	0.48
1:E:263:SER:HB3	1:E:271:LEU:HD22	1.96	0.48
1:A:13:ASP:C	1:A:410:VAL:CG2	2.74	0.48
1:A:235:VAL:O	1:A:238:VAL:HG13	2.11	0.48
1:C:281:GLU:HB2	1:C:328:ASN:OD1	2.14	0.48
1:H:356:LEU:CD1	1:H:360:GLU:HG3	2.43	0.48
1:E:148:GLY:HA3	1:E:171:ASP:OD1	2.14	0.48
1:E:379:MET:HB3	1:E:384:MET:HG3	1.95	0.48
1:C:146:MET:SD	1:C:212:HIS:HB2	2.54	0.48
1:C:310:LEU:O	1:C:314:GLY:N	2.31	0.48
1:D:97:GLU:OE1	1:D:455:LEU:HB2	2.14	0.48
1:D:136:ARG:CZ	1:D:415:LEU:CD1	2.92	0.48
1:F:260:LEU:HA	1:F:263:SER:OG	2.13	0.48
1:H:333:ILE:CD1	1:H:379:MET:SD	3.02	0.48
1:H:386:PRO:O	1:H:389:ALA:N	2.47	0.48
1:E:7:THR:O	1:E:52:GLY:HA3	2.14	0.48
1:A:182:LEU:HD22	1:A:185:LEU:HD12	1.96	0.48
1:B:108:THR:HG21	1:B:417:ASP:HB3	1.96	0.48
1:B:236:LEU:HD23	1:B:266:LEU:HD11	1.95	0.48
1:C:117:ILE:CG1	1:C:121:LEU:HD12	2.44	0.48
1:C:367:THR:O	1:C:371:ASP:HB3	2.14	0.48
1:D:181:GLN:CG	1:D:185:LEU:HD11	2.44	0.48
1:F:168:ASP:O	1:F:172:SER:OG	2.26	0.48
1:G:6:ILE:CG1	1:G:9:VAL:CG2	2.90	0.48
1:H:13:ASP:OD1	1:H:13:ASP:N	2.24	0.48
1:H:87:TRP:HB3	1:H:94:VAL:CG2	2.42	0.48
1:H:251:LEU:HD13	1:H:272:ILE:HD11	1.96	0.48
1:E:306:HIS:O	1:E:310:LEU:N	2.27	0.48
1:A:182:LEU:CD2	1:A:185:LEU:HD12	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:316:TRP:CG	1:A:317:ALA:N	2.81	0.48
1:B:187:ARG:HA	1:B:190:VAL:CG2	2.44	0.48
1:B:326:ALA:HA	1:B:329:GLU:HG3	1.96	0.48
1:C:53:ASN:O	1:C:55:ARG:HG3	2.14	0.48
1:C:62:VAL:HG21	1:C:407:ILE:HG22	1.95	0.48
1:D:103:LEU:HD12	1:D:107:VAL:O	2.14	0.48
1:D:339:ILE:CG2	1:D:340:LEU:N	2.76	0.48
1:F:27:VAL:HG11	1:F:442:GLY:HA3	1.96	0.48
1:F:45:GLU:C	1:F:47:ALA:N	2.64	0.48
1:F:112:ASP:OD2	1:F:115:ASN:ND2	2.47	0.48
1:F:113:THR:HG21	1:F:206:LYS:HZ2	1.79	0.48
1:F:257:VAL:HG21	1:F:280:GLN:HB3	1.96	0.48
1:H:290:ILE:HA	1:H:293:SER:OG	2.13	0.48
1:H:425:PRO:CB	1:H:432:LEU:HD12	2.44	0.48
1:E:257:VAL:HG22	1:E:277:THR:HG21	1.95	0.48
1:E:429:ILE:O	1:E:432:LEU:CD1	2.38	0.48
1:A:272:ILE:HD12	1:A:272:ILE:H	1.78	0.48
1:A:416:ALA:HB3	1:A:442:GLY:N	2.28	0.48
1:C:330:ARG:O	1:C:334:SER:N	2.43	0.48
1:D:68:LEU:CD1	1:D:95:ILE:CG2	2.84	0.48
1:D:252:THR:HG21	1:D:263:SER:OG	2.13	0.48
1:F:52:GLY:O	1:F:55:ARG:HB2	2.14	0.48
1:G:144:VAL:HG13	1:G:178:VAL:CG1	2.44	0.48
1:G:286:LEU:O	1:G:287:ILE:C	2.51	0.48
1:H:110:VAL:N	1:H:136:ARG:O	2.41	0.48
1:E:12:ILE:HB	1:E:58:VAL:HG12	1.96	0.47
1:E:213:ILE:HG23	1:E:216:THR:HB	1.96	0.47
1:E:214:VAL:HG22	1:E:215:PHE:CE1	2.48	0.47
1:A:414:LYS:HB2	1:A:414:LYS:HE3	1.67	0.47
1:C:262:THR:O	1:C:262:THR:HG22	2.12	0.47
1:D:152:ALA:HB1	1:D:213:ILE:HG12	1.95	0.47
1:D:153:ASP:HA	1:D:212:HIS:HB3	1.96	0.47
1:F:75:MET:H	1:F:76:ALA:CB	2.24	0.47
1:F:224:PHE:N	1:F:224:PHE:HD1	2.12	0.47
1:F:255:VAL:CA	1:F:276:TYR:O	2.62	0.47
1:H:269:ASP:O	1:H:296:TRP:HB2	2.14	0.47
1:E:212:HIS:O	1:E:213:ILE:HG13	2.14	0.47
1:A:118:GLU:HB2	1:A:119:PRO:HD3	1.95	0.47
1:A:136:ARG:NH2	1:A:417:ASP:OD2	2.35	0.47
1:B:94:VAL:HG23	1:B:455:LEU:HD23	1.95	0.47
1:B:236:LEU:HA	1:B:236:LEU:HD12	1.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3:THR:HA	1:D:27:VAL:O	2.13	0.47
1:D:264:VAL:HG11	1:D:289:LYS:HG2	1.95	0.47
1:G:350:LYS:HA	1:G:350:LYS:HD2	1.63	0.47
1:H:62:VAL:HG13	1:H:109:THR:HB	1.96	0.47
1:A:111:PHE:HD1	1:A:138:PHE:HB2	1.79	0.47
1:A:112:ASP:OD2	1:A:115:ASN:HB2	2.14	0.47
1:A:191:ARG:CD	1:A:238:VAL:HG22	2.42	0.47
1:A:218:VAL:HG13	1:A:219:ASP:HB2	1.95	0.47
1:C:341:LEU:HD13	1:C:375:TRP:CD2	2.48	0.47
1:G:6:ILE:CD1	1:G:9:VAL:CG1	2.91	0.47
1:G:38:SER:C	1:G:40:SER:H	2.17	0.47
1:H:198:LEU:O	1:H:201:GLY:HA2	2.14	0.47
1:H:447:ARG:HB3	1:H:447:ARG:HH11	1.79	0.47
1:E:77:GLY:O	1:E:78:PRO:C	2.48	0.47
1:E:198:LEU:O	1:E:200:ARG:N	2.48	0.47
1:A:153:ASP:CB	1:A:212:HIS:HB3	2.44	0.47
1:C:191:ARG:HB2	1:C:238:VAL:HG11	1.95	0.47
1:D:352:HIS:O	1:D:356:LEU:HD13	2.13	0.47
1:G:144:VAL:HB	1:G:207:ILE:HA	1.95	0.47
1:G:365:PRO:HG2	1:G:366:TRP:CE3	2.49	0.47
1:H:260:LEU:HD11	1:H:271:LEU:HD22	1.96	0.47
1:A:75:MET:HE1	1:A:212:HIS:CE1	2.21	0.47
1:A:275:ASN:O	1:A:277:THR:HG23	2.14	0.47
1:C:67:HIS:HE1	1:C:114:HIS:HB2	1.80	0.47
1:D:83:TYR:C	1:D:83:TYR:CD1	2.88	0.47
1:F:58:VAL:HB	1:F:59:PRO:HD2	1.97	0.47
1:G:395:ILE:O	1:G:399:ARG:HG3	2.14	0.47
1:H:330:ARG:O	1:H:334:SER:OG	2.22	0.47
1:E:75:MET:HE3	1:E:316:TRP:CH2	2.50	0.47
1:E:213:ILE:CG2	1:E:216:THR:CG2	2.92	0.47
1:E:315:SER:O	1:E:317:ALA:N	2.41	0.47
1:E:324:PRO:O	1:E:327:THR:N	2.48	0.47
1:A:207:ILE:CG2	1:A:252:THR:HA	2.44	0.47
1:A:277:THR:OG1	1:A:280:GLN:O	2.11	0.47
1:A:340:LEU:HD11	1:A:397:VAL:HA	1.97	0.47
1:A:447:ARG:CZ	1:A:447:ARG:HB2	2.44	0.47
1:B:343:THR:OG1	1:B:371:ASP:HB2	2.14	0.47
1:C:270:VAL:HG12	1:C:272:ILE:HG12	1.97	0.47
1:C:319:ALA:O	1:C:323:GLU:HG3	2.15	0.47
1:C:330:ARG:HA	1:C:333:ILE:HB	1.96	0.47
1:C:341:LEU:HD12	1:C:342:ASN:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:31:ARG:HD3	1:F:413:GLY:HA2	1.97	0.47
1:F:236:LEU:HB3	1:F:266:LEU:HD21	1.97	0.47
1:F:277:THR:CG2	1:F:280:GLN:HB2	2.43	0.47
1:G:191:ARG:NH2	1:G:241:GLU:OE1	2.37	0.47
1:G:399:ARG:HG2	1:G:404:ALA:HB2	1.96	0.47
1:H:11:LEU:HB3	1:H:23:THR:OG1	2.15	0.47
1:H:180:HIS:C	1:H:182:LEU:N	2.68	0.47
1:E:178:VAL:CG2	1:E:182:LEU:HD11	2.44	0.47
1:E:181:GLN:O	1:E:182:LEU:C	2.52	0.47
1:E:251:LEU:HD22	1:E:270:VAL:HB	1.95	0.47
1:A:38:SER:OG	1:A:40:SER:N	2.48	0.47
1:A:68:LEU:HB3	1:A:95:ILE:HG23	1.97	0.47
1:A:155:HIS:CE1	1:A:157:ALA:O	2.67	0.47
1:A:224:PHE:CB	1:A:278:LEU:HD13	2.45	0.47
1:B:112:ASP:OD2	1:B:115:ASN:HB2	2.15	0.47
1:B:113:THR:HA	1:B:140:ALA:HB3	1.93	0.47
1:B:158:GLY:HA2	1:B:161:ALA:HB3	1.96	0.47
1:B:178:VAL:HG12	1:B:179:GLY:N	2.27	0.47
1:B:391:SER:H	1:B:394:THR:H	1.62	0.47
1:B:428:ASP:HB3	1:B:431:ASN:OD1	2.15	0.47
1:C:213:ILE:HG13	1:C:213:ILE:O	2.15	0.47
1:C:318:ALA:O	1:C:321:ALA:N	2.31	0.47
1:D:236:LEU:HB3	1:D:266:LEU:HD11	1.97	0.47
1:D:303:HIS:HE1	1:D:363:ASP:OD2	1.97	0.47
1:D:339:ILE:HD13	1:D:384:MET:CE	2.44	0.47
1:F:13:ASP:OD1	1:F:13:ASP:N	2.45	0.47
1:F:45:GLU:CG	1:F:46:GLY:N	2.78	0.47
1:F:59:PRO:HG2	1:F:394:THR:HG21	1.95	0.47
1:F:271:LEU:HG	1:F:296:TRP:O	2.15	0.47
1:F:429:ILE:HG13	1:F:432:LEU:CD1	2.45	0.47
1:G:6:ILE:CD1	1:G:9:VAL:HG21	2.44	0.47
1:G:17:GLY:O	1:G:18:LEU:C	2.53	0.47
1:G:31:ARG:CB	1:G:414:LYS:O	2.63	0.47
1:H:38:SER:HB3	1:H:40:SER:O	2.15	0.47
1:H:191:ARG:HB2	1:H:238:VAL:HG22	1.95	0.47
1:H:210:SER:CB	1:H:255:VAL:HG22	2.43	0.47
1:H:230:THR:HB	1:H:231:PHE:HD1	1.78	0.47
1:H:459:HIS:ND1	1:H:459:HIS:O	2.47	0.47
1:E:97:GLU:OE2	1:E:454:PRO:HA	2.15	0.47
1:E:333:ILE:HG12	1:E:339:ILE:HD11	1.97	0.47
1:E:386:PRO:O	1:E:390:ILE:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:32:PHE:HE2	1:B:409:SER:HB2	1.80	0.47
1:B:81:ILE:HG12	1:B:150:PHE:CE1	2.50	0.47
1:C:447:ARG:HA	1:C:450:LEU:HD13	1.96	0.47
1:D:19:PRO:O	1:D:21:PRO:HD3	2.15	0.47
1:D:73:MET:HE2	1:D:74:PHE:HE1	1.79	0.47
1:D:332:LEU:C	1:D:337:ALA:HB2	2.31	0.47
1:F:208:ALA:HA	1:F:253:HIS:HB3	1.97	0.47
1:G:70:ASP:OD2	1:G:73:MET:HB3	2.15	0.47
1:G:194:VAL:O	1:G:197:TYR:HB3	2.15	0.47
1:H:14:GLY:HA3	1:H:59:PRO:HG3	1.96	0.47
1:H:145:GLY:N	1:H:179:GLY:HA3	2.23	0.47
1:H:233:ARG:NH2	1:H:262:THR:OG1	2.43	0.47
1:E:214:VAL:CG1	1:E:215:PHE:CD1	2.90	0.47
1:F:198:LEU:HD21	1:F:205:LEU:HD12	1.97	0.47
1:F:290:ILE:HG23	1:F:291:VAL:HG22	1.97	0.47
1:F:421:LEU:HA	1:F:434:SER:O	2.15	0.47
1:H:76:ALA:HB3	1:H:78:PRO:HD3	1.97	0.47
1:H:102:ALA:HB1	1:H:107:VAL:HB	1.95	0.47
1:H:406:GLN:O	1:H:415:LEU:HD13	2.14	0.47
1:E:16:GLY:HA2	1:E:387:LEU:HG	1.97	0.47
1:E:88:GLU:OE1	1:E:169:ARG:NH1	2.45	0.47
1:E:122:ALA:O	1:E:126:ARG:HG3	2.15	0.47
1:E:333:ILE:CD1	1:E:382:LYS:HB2	2.45	0.47
1:A:320:LEU:HA	1:A:325:TYR:HD2	1.80	0.47
1:B:38:SER:HB3	1:B:40:SER:O	2.14	0.47
1:C:138:PHE:O	1:C:203:ASP:HB2	2.15	0.47
1:D:240:VAL:O	1:D:244:ARG:HG2	2.15	0.47
1:F:151:SER:HB2	1:F:152:ALA:O	2.15	0.47
1:F:429:ILE:HG13	1:F:432:LEU:HD12	1.96	0.47
1:H:207:ILE:HG22	1:H:251:LEU:O	2.15	0.47
1:E:62:VAL:O	1:E:397:VAL:HG21	2.15	0.46
1:A:9:VAL:HG22	1:A:52:GLY:HA3	1.97	0.46
1:A:32:PHE:HB2	1:A:412:THR:HA	1.97	0.46
1:A:69:LEU:HD23	1:A:69:LEU:HA	1.79	0.46
1:D:341:LEU:HB3	1:D:397:VAL:HG11	1.97	0.46
1:F:297:ALA:O	1:F:340:LEU:HG	2.15	0.46
1:H:31:ARG:HH11	1:H:415:LEU:CG	2.27	0.46
1:H:74:PHE:CD1	1:H:74:PHE:N	2.83	0.46
1:E:226:ARG:NH1	1:E:226:ARG:CB	2.76	0.46
1:A:207:ILE:O	1:A:253:HIS:N	2.48	0.46
1:B:9:VAL:HG11	1:B:57:MET:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:70:ASP:CG	1:C:71:ALA:N	2.68	0.46
1:E:100:GLN:CG	1:E:133:GLN:O	2.63	0.46
1:E:153:ASP:O	1:E:212:HIS:ND1	2.49	0.46
1:E:217:LEU:HD13	1:E:225:ASP:O	2.15	0.46
1:A:11:LEU:HD23	1:A:11:LEU:C	2.36	0.46
1:B:4:ILE:HD12	1:B:439:PHE:HE2	1.80	0.46
1:B:394:THR:HG22	1:B:395:ILE:H	1.76	0.46
1:D:88:GLU:HA	1:D:91:TYR:CE1	2.50	0.46
1:F:74:PHE:O	1:F:154:PHE:CB	2.62	0.46
1:F:92:VAL:HG22	1:F:119:PRO:HA	1.97	0.46
1:G:330:ARG:O	1:G:333:ILE:N	2.48	0.46
1:H:209:VAL:O	1:H:230:THR:N	2.38	0.46
1:H:439:PHE:CE2	1:H:444:ALA:HB2	2.46	0.46
1:E:250:VAL:HG22	1:E:268:ALA:HA	1.97	0.46
1:A:102:ALA:HB1	1:A:107:VAL:HB	1.98	0.46
1:A:283:PRO:HD2	1:A:286:LEU:HB2	1.97	0.46
1:B:72:TRP:HD1	1:B:364:ARG:HH22	1.64	0.46
1:B:273:HIS:HB3	1:B:300:GLN:NE2	2.29	0.46
1:C:68:LEU:HB2	1:C:95:ILE:HG23	1.98	0.46
1:D:330:ARG:O	1:D:333:ILE:HD13	2.14	0.46
1:F:112:ASP:O	1:F:139:ALA:HA	2.15	0.46
1:F:198:LEU:HD13	1:F:248:VAL:HG21	1.98	0.46
1:F:317:ALA:O	1:F:319:ALA:N	2.47	0.46
1:G:64:GLY:HA2	1:G:111:PHE:CD2	2.39	0.46
1:G:252:THR:HG21	1:G:263:SER:OG	2.16	0.46
1:H:117:ILE:HA	1:H:120:VAL:HG12	1.97	0.46
1:E:126:ARG:O	1:E:131:ILE:HG22	2.15	0.46
1:E:377:GLN:HA	1:E:429:ILE:HG21	1.96	0.46
1:A:14:GLY:CA	1:A:59:PRO:HG2	2.45	0.46
1:A:214:VAL:O	1:A:217:LEU:HB2	2.15	0.46
1:A:243:ALA:HA	1:A:246:ALA:HB3	1.96	0.46
1:D:88:GLU:OE1	1:D:169:ARG:NH1	2.48	0.46
1:D:259:ALA:HA	1:D:262:THR:HG22	1.96	0.46
1:F:257:VAL:CG2	1:F:277:THR:CG2	2.81	0.46
1:G:363:ASP:O	1:G:374:HIS:ND1	2.48	0.46
1:H:64:GLY:HA2	1:H:111:PHE:CD2	2.50	0.46
1:E:105:ASN:OD1	1:E:369:GLY:HA2	2.16	0.46
1:B:253:HIS:NE2	1:B:273:HIS:CE1	2.83	0.46
1:C:66:VAL:O	1:C:112:ASP:HA	2.16	0.46
1:C:144:VAL:HG11	1:C:239:MET:HE2	1.98	0.46
1:C:156:PHE:H	1:C:215:PHE:HE2	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:166:PHE:HB2	1:H:351:ASP:OD2	2.16	0.46
1:D:262:THR:HG23	1:D:263:SER:N	2.31	0.46
1:G:226:ARG:HD2	1:G:228:TYR:CE2	2.51	0.46
1:H:177:GLY:O	1:H:193:ARG:HD2	2.15	0.46
1:H:379:MET:HB3	1:H:384:MET:HB2	1.98	0.46
1:E:259:ALA:O	1:E:263:SER:N	2.46	0.46
1:B:271:LEU:HD22	1:B:274:ALA:HB2	1.98	0.46
1:D:75:MET:HG2	1:D:215:PHE:CZ	2.51	0.46
1:F:30:ASP:O	1:F:416:ALA:HB2	2.16	0.46
1:E:290:ILE:CA	1:E:293:SER:OG	2.64	0.46
1:B:169:ARG:NH2	1:G:351:ASP:OD2	2.49	0.46
1:B:297:ALA:O	1:B:339:ILE:HA	2.16	0.46
1:B:320:LEU:HD23	1:B:325:TYR:CE2	2.51	0.46
1:C:304:ASP:OD1	1:C:304:ASP:N	2.48	0.46
1:D:3:THR:HG22	1:D:28:GLU:HA	1.98	0.46
1:D:330:ARG:O	1:D:333:ILE:CD1	2.64	0.46
1:F:66:VAL:HG22	1:F:110:VAL:CG1	2.44	0.46
1:H:322:GLY:O	1:H:323:GLU:CB	2.63	0.46
1:E:77:GLY:N	1:E:78:PRO:HD3	2.30	0.46
1:E:459:HIS:HA	1:E:460:PRO:HA	1.62	0.46
1:A:142:THR:HB	1:A:174:PHE:O	2.16	0.46
1:A:282:ILE:HD11	1:A:287:ILE:HG13	1.98	0.46
1:C:447:ARG:NH1	1:C:447:ARG:HB3	2.31	0.46
1:D:147:GLY:HA3	1:D:180:HIS:CE1	2.51	0.46
1:F:74:PHE:HA	1:F:80:THR:OG1	2.16	0.46
1:F:403:LYS:HB3	1:F:407:ILE:HD12	1.97	0.46
1:E:170:ILE:HG23	1:E:174:PHE:HE1	1.81	0.46
1:E:378:SER:O	1:E:382:LYS:CG	2.57	0.46
1:A:232:SER:HB2	1:A:234:PRO:HD2	1.97	0.46
1:B:190:VAL:HG11	1:B:239:MET:CE	2.45	0.46
1:C:91:TYR:CE2	1:C:173:MET:HE1	2.51	0.46
1:C:140:ALA:HA	1:C:204:MET:HG2	1.98	0.46
1:C:326:ALA:HA	1:C:329:GLU:HB2	1.97	0.46
1:H:145:GLY:CA	1:H:179:GLY:HA3	2.44	0.46
1:H:271:LEU:HB3	1:H:274:ALA:HB2	1.98	0.46
1:H:439:PHE:CE1	1:H:444:ALA:CB	2.99	0.46
1:E:429:ILE:O	1:E:431:ASN:N	2.50	0.45
1:A:4:ILE:N	1:A:27:VAL:O	2.48	0.45
1:A:35:VAL:HG12	1:A:36:GLY:H	1.80	0.45
1:B:153:ASP:HA	1:B:212:HIS:HB3	1.98	0.45
1:C:360:GLU:O	1:C:364:ARG:HB2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:215:PHE:C	1:D:218:VAL:HG13	2.36	0.45
1:D:219:ASP:C	1:D:222:VAL:CG1	2.85	0.45
1:F:74:PHE:C	1:F:154:PHE:HB3	2.36	0.45
1:F:422:ASP:CG	1:F:434:SER:HB3	2.36	0.45
1:G:218:VAL:N	1:G:219:ASP:HB2	2.31	0.45
1:H:243:ALA:O	1:H:247:GLY:N	2.48	0.45
1:H:296:TRP:CE3	1:H:338:LYS:HB3	2.51	0.45
1:E:213:ILE:HG22	1:E:216:THR:HG22	1.96	0.45
1:A:166:PHE:O	1:A:170:ILE:HG12	2.16	0.45
1:A:275:ASN:OD1	1:A:276:TYR:CG	2.69	0.45
1:A:438:VAL:CG2	1:A:447:ARG:HD3	2.43	0.45
1:A:447:ARG:NH1	1:A:447:ARG:N	2.64	0.45
1:B:387:LEU:HA	1:B:388:GLU:C	2.36	0.45
1:C:206:LYS:HE2	1:C:272:ILE:HG21	1.97	0.45
1:C:219:ASP:OD1	1:C:222:VAL:HG12	2.16	0.45
1:C:281:GLU:HA	1:C:328:ASN:HD21	1.82	0.45
1:F:38:SER:HB2	1:F:40:SER:H	1.82	0.45
1:H:208:ALA:HA	1:H:253:HIS:HB2	1.97	0.45
1:H:344:ASP:O	1:H:366:TRP:HD1	1.99	0.45
1:H:447:ARG:HH11	1:H:447:ARG:CB	2.29	0.45
1:E:148:GLY:O	1:E:151:SER:OG	2.28	0.45
1:E:322:GLY:O	1:E:323:GLU:HB2	2.16	0.45
1:C:115:ASN:ND2	1:C:120:VAL:HB	2.31	0.45
1:C:253:HIS:ND1	1:C:273:HIS:ND1	2.55	0.45
1:D:236:LEU:O	1:D:240:VAL:HG13	2.16	0.45
1:F:198:LEU:HD11	1:F:205:LEU:HD12	1.97	0.45
1:F:226:ARG:CB	1:F:226:ARG:NH1	2.79	0.45
1:F:267:GLY:C	1:F:295:SER:OG	2.54	0.45
1:G:187:ARG:HB3	1:G:235:VAL:HG22	1.98	0.45
1:G:227:SER:OG	1:G:256:SER:HB3	2.16	0.45
1:G:281:GLU:O	1:G:283:PRO:HD3	2.16	0.45
1:H:260:LEU:CD1	1:H:271:LEU:HD23	2.39	0.45
1:A:100:GLN:NE2	1:A:133:GLN:O	2.47	0.45
1:A:140:ALA:HB2	1:A:204:MET:HG2	1.99	0.45
1:A:282:ILE:HG23	1:A:328:ASN:CG	2.36	0.45
1:B:171:ASP:O	1:B:175:GLU:HG3	2.16	0.45
1:B:198:LEU:C	1:B:200:ARG:H	2.20	0.45
1:B:391:SER:HB2	1:B:395:ILE:N	2.27	0.45
1:C:217:LEU:CD2	1:C:224:PHE:HB2	2.46	0.45
1:C:219:ASP:CG	1:C:222:VAL:HG12	2.36	0.45
1:D:387:LEU:C	1:D:390:ILE:HB	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:74:PHE:N	1:F:76:ALA:HB3	2.32	0.45
1:F:258:GLU:O	1:F:260:LEU:N	2.49	0.45
1:G:261:ASP:O	1:G:265:GLU:CG	2.64	0.45
1:H:231:PHE:HB2	1:H:236:LEU:CD2	2.47	0.45
1:H:361:ARG:O	1:H:364:ARG:N	2.49	0.45
1:E:11:LEU:HD11	1:E:410:VAL:HG21	1.98	0.45
1:A:67:HIS:O	1:A:346:GLY:HA2	2.16	0.45
1:A:207:ILE:O	1:A:207:ILE:HG23	2.15	0.45
1:A:260:LEU:O	1:A:264:VAL:N	2.45	0.45
1:A:271:LEU:HD11	1:A:296:TRP:C	2.36	0.45
1:C:25:VAL:HG21	1:C:57:MET:SD	2.56	0.45
1:D:69:LEU:HD12	1:D:69:LEU:HA	1.83	0.45
1:D:179:GLY:H	1:D:182:LEU:HG	1.81	0.45
1:F:269:ASP:O	1:F:296:TRP:N	2.47	0.45
1:F:276:TYR:HA	1:F:325:TYR:CD1	2.52	0.45
1:F:307:ARG:O	1:F:311:GLU:HG3	2.16	0.45
1:G:35:VAL:HG12	1:G:412:THR:HG23	1.99	0.45
1:G:124:ARG:O	1:G:127:ILE:HG12	2.16	0.45
1:H:270:VAL:HA	1:H:296:TRP:O	2.17	0.45
1:H:341:LEU:HD21	1:H:372:HIS:HB3	1.98	0.45
1:E:77:GLY:HA3	1:E:155:HIS:ND1	2.32	0.45
1:E:78:PRO:HA	1:E:155:HIS:HE1	1.78	0.45
1:A:180:HIS:HE1	1:A:181:GLN:OE1	1.99	0.45
1:B:144:VAL:HG13	1:B:178:VAL:HG12	1.98	0.45
1:C:88:GLU:OE2	1:C:169:ARG:NH1	2.49	0.45
1:D:341:LEU:HD13	1:D:375:TRP:CE3	2.52	0.45
1:F:237:GLU:HA	1:F:240:VAL:HB	1.99	0.45
1:G:43:VAL:HG13	1:G:47:ALA:HB3	1.98	0.45
1:H:220:ARG:O	1:H:221:SER:CB	2.65	0.45
1:H:278:LEU:HA	1:H:325:TYR:HH	1.72	0.45
1:A:11:LEU:HD23	1:A:11:LEU:O	2.17	0.45
1:A:380:VAL:HA	1:A:384:MET:HB3	1.99	0.45
1:B:65:ASN:O	1:B:66:VAL:HG13	2.16	0.45
1:D:220:ARG:NH1	1:D:220:ARG:CG	2.79	0.45
1:D:387:LEU:CA	1:D:390:ILE:HB	2.46	0.45
1:D:392:ALA:HA	1:D:396:ASN:CG	2.37	0.45
1:F:341:LEU:HD13	1:F:375:TRP:CE3	2.52	0.45
1:G:53:ASN:O	1:G:55:ARG:NE	2.50	0.45
1:G:129:ALA:CB	1:G:131:ILE:HG13	2.44	0.45
1:H:135:ALA:O	1:H:137:ILE:HG13	2.16	0.45
1:A:70:ASP:CG	1:A:71:ALA:N	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:185:LEU:HD13	1:B:193:ARG:HH12	1.82	0.45
1:B:380:VAL:C	1:B:382:LYS:N	2.70	0.45
1:C:70:ASP:OD2	1:C:73:MET:CB	2.65	0.45
1:C:154:PHE:O	1:C:215:PHE:HD2	2.00	0.45
1:D:37:PRO:O	1:D:39:ASP:C	2.55	0.45
1:F:61:TYR:OH	1:F:432:LEU:CD2	2.57	0.45
1:F:73:MET:HE2	1:F:73:MET:HB3	1.75	0.45
1:F:226:ARG:NH1	1:F:226:ARG:HB3	2.32	0.45
1:F:410:VAL:O	1:F:410:VAL:HG12	2.16	0.45
1:A:120:VAL:HG13	1:A:121:LEU:HD23	1.99	0.45
1:A:321:ALA:O	1:A:326:ALA:HB2	2.17	0.45
1:C:30:ASP:HB2	1:C:441:ALA:O	2.17	0.45
1:F:63:ASN:CG	1:F:66:VAL:CG1	2.85	0.45
1:H:322:GLY:CA	1:H:326:ALA:HB2	2.32	0.45
1:H:361:ARG:HA	1:H:364:ARG:HB2	1.98	0.45
1:A:170:ILE:O	1:A:173:MET:HB2	2.17	0.45
1:A:319:ALA:O	1:A:323:GLU:HB2	2.17	0.45
1:A:378:SER:O	1:A:382:LYS:HE2	2.17	0.45
1:B:74:PHE:CD1	1:B:80:THR:HG23	2.52	0.45
1:B:88:GLU:O	1:G:86:ARG:NH2	2.50	0.45
1:C:153:ASP:CB	1:C:212:HIS:HB3	2.47	0.45
1:F:65:ASN:O	1:F:343:THR:O	2.35	0.45
1:F:109:THR:OG1	1:F:136:ARG:NE	2.50	0.45
1:F:339:ILE:O	1:F:396:ASN:HB3	2.16	0.45
1:G:6:ILE:HG23	1:G:25:VAL:H	1.82	0.45
1:G:263:SER:O	1:G:266:LEU:HD23	2.17	0.45
1:H:197:TYR:HE2	1:H:205:LEU:HD11	1.82	0.45
1:H:327:THR:HB	1:H:330:ARG:HH11	1.81	0.45
1:E:181:GLN:C	1:E:183:SER:N	2.68	0.44
1:E:220:ARG:O	1:E:221:SER:CB	2.64	0.44
1:E:281:GLU:O	1:E:282:ILE:C	2.54	0.44
1:H:201:GLY:O	1:H:202:VAL:HG22	2.17	0.44
1:E:75:MET:HE2	1:E:316:TRP:HH2	1.81	0.44
1:A:191:ARG:CD	1:A:238:VAL:HG21	2.42	0.44
1:A:254:SER:HB2	1:A:259:ALA:HB3	1.96	0.44
1:B:127:ILE:HD12	1:B:137:ILE:CD1	2.47	0.44
1:D:20:ARG:O	1:D:23:THR:HG22	2.16	0.44
1:D:261:ASP:O	1:D:264:VAL:HB	2.17	0.44
1:D:302:VAL:HA	1:D:374:HIS:HE1	1.83	0.44
1:G:286:LEU:O	1:G:289:LYS:N	2.51	0.44
1:H:214:VAL:O	1:H:217:LEU:N	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:456:VAL:HG13	1:H:457:THR:N	2.32	0.44
1:E:423:GLN:CB	1:E:431:ASN:OD1	2.65	0.44
1:A:217:LEU:HD12	1:A:217:LEU:HA	1.77	0.44
1:A:220:ARG:O	1:A:221:SER:HB3	2.18	0.44
1:A:250:VAL:N	1:A:269:ASP:OD2	2.50	0.44
1:B:65:ASN:O	1:B:66:VAL:CG1	2.65	0.44
1:B:298:GLY:HA3	1:B:342:ASN:ND2	2.32	0.44
1:C:67:HIS:ND1	1:C:114:HIS:HB3	2.32	0.44
1:C:100:GLN:OE1	1:C:452:THR:HG23	2.18	0.44
1:D:48:THR:HG22	1:D:49:VAL:N	2.33	0.44
1:D:382:LYS:N	1:D:382:LYS:CD	2.80	0.44
1:G:217:LEU:CB	1:G:219:ASP:HB2	2.46	0.44
1:H:147:GLY:O	1:H:154:PHE:CD2	2.70	0.44
1:H:155:HIS:CE1	1:H:157:ALA:HB3	2.52	0.44
1:H:285:TYR:HE1	1:H:286:LEU:HD12	1.82	0.44
1:H:297:ALA:N	1:H:338:LYS:O	2.47	0.44
1:H:425:PRO:HB3	1:H:432:LEU:HD12	1.99	0.44
1:E:66:VAL:C	1:E:67:HIS:CD2	2.90	0.44
1:E:147:GLY:HA2	1:E:175:GLU:HG2	1.98	0.44
1:E:326:ALA:C	1:E:328:ASN:H	2.20	0.44
1:A:324:PRO:O	1:A:328:ASN:HB2	2.18	0.44
1:B:204:MET:HA	1:B:248:VAL:HB	1.99	0.44
1:B:378:SER:O	1:B:381:GLU:HB2	2.18	0.44
1:C:59:PRO:HG2	1:C:394:THR:HG21	2.00	0.44
1:D:153:ASP:CB	1:D:212:HIS:HB3	2.48	0.44
1:F:224:PHE:CE2	1:F:278:LEU:HD12	2.52	0.44
1:F:226:ARG:HB2	1:F:226:ARG:HH11	1.83	0.44
1:H:118:GLU:HB3	1:H:119:PRO:HD3	1.98	0.44
1:E:100:GLN:HG2	1:E:133:GLN:O	2.17	0.44
1:E:307:ARG:C	1:E:307:ARG:CD	2.86	0.44
1:B:153:ASP:HB3	1:B:212:HIS:HB3	1.99	0.44
1:B:164:ARG:N	1:G:355:ASP:OD2	2.49	0.44
1:B:459:HIS:HA	1:B:460:PRO:HA	1.70	0.44
1:C:253:HIS:CD2	1:C:253:HIS:O	2.70	0.44
1:C:281:GLU:HA	1:C:328:ASN:ND2	2.33	0.44
1:D:61:TYR:OH	1:D:432:LEU:HD22	2.18	0.44
1:D:72:TRP:O	1:D:73:MET:CB	2.66	0.44
1:D:73:MET:HE2	1:D:74:PHE:CE1	2.53	0.44
1:D:234:PRO:O	1:D:238:VAL:HG23	2.18	0.44
1:D:323:GLU:HB3	1:D:324:PRO:CD	2.48	0.44
1:F:224:PHE:CZ	1:F:278:LEU:CD1	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:255:VAL:O	1:H:278:LEU:CD1	2.43	0.44
1:E:429:ILE:HD12	1:E:432:LEU:HD11	1.98	0.44
1:A:92:VAL:CG1	1:C:131:ILE:HD11	2.48	0.44
1:A:114:HIS:CG	1:A:143:ILE:HG13	2.53	0.44
1:A:178:VAL:CG1	1:A:179:GLY:N	2.79	0.44
1:A:397:VAL:O	1:A:401:TYR:HD2	2.01	0.44
1:C:117:ILE:HG23	1:C:118:GLU:H	1.81	0.44
1:C:446:ASP:O	1:C:450:LEU:CD1	2.66	0.44
1:F:80:THR:HG22	1:F:84:LEU:HD12	1.98	0.44
1:G:260:LEU:HD21	1:G:290:ILE:HD11	1.99	0.44
1:H:456:VAL:HG22	1:H:457:THR:HG23	2.00	0.44
1:A:103:LEU:HD13	1:A:135:ALA:HA	1.99	0.44
1:A:305:GLN:O	1:A:309:GLY:N	2.43	0.44
1:B:59:PRO:HG2	1:B:394:THR:OG1	2.18	0.44
1:B:365:PRO:O	1:B:371:ASP:HA	2.18	0.44
1:C:26:ILE:CD1	1:C:34:THR:OG1	2.64	0.44
1:C:87:TRP:CZ3	1:C:455:LEU:HG	2.52	0.44
1:C:150:PHE:O	1:C:159:ARG:HB3	2.17	0.44
1:C:217:LEU:HD21	1:C:225:ASP:H	1.81	0.44
1:D:330:ARG:HA	1:D:333:ILE:HD12	2.00	0.44
1:F:121:LEU:HA	1:F:124:ARG:HB3	1.99	0.44
1:H:120:VAL:O	1:H:123:ALA:N	2.46	0.44
1:E:297:ALA:O	1:E:339:ILE:HA	2.17	0.44
1:E:301:THR:HG22	1:E:329:GLU:OE1	2.18	0.44
1:A:92:VAL:HG13	1:A:93:GLU:N	2.33	0.44
1:A:251:LEU:CD1	1:A:270:VAL:HG21	2.47	0.44
1:B:155:HIS:CD2	1:B:157:ALA:O	2.71	0.44
1:C:30:ASP:CG	1:C:31:ARG:N	2.65	0.44
1:C:273:HIS:CD2	1:C:273:HIS:N	2.86	0.44
1:C:341:LEU:HD13	1:C:375:TRP:CE3	2.53	0.44
1:C:398:ALA:O	1:C:399[B]:ARG:C	2.54	0.44
1:D:187:ARG:HB3	1:D:187:ARG:CZ	2.48	0.44
1:F:221:SER:HA	1:F:222:VAL:HA	1.72	0.44
1:F:305:GLN:O	1:F:308:GLN:N	2.48	0.44
1:F:447:ARG:CZ	1:F:447:ARG:HB2	2.47	0.44
1:G:110:VAL:O	1:G:137:ILE:HA	2.17	0.44
1:H:193:ARG:HB2	1:H:193:ARG:CZ	2.47	0.44
1:H:286:LEU:O	1:H:290:ILE:HG13	2.18	0.44
1:E:236:LEU:O	1:E:240:VAL:CG2	2.50	0.44
1:E:429:ILE:C	1:E:431:ASN:N	2.71	0.44
1:B:32:PHE:CZ	1:B:410:VAL:HG22	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:391:SER:N	1:B:392:ALA:CA	2.81	0.44
1:C:97:GLU:OE2	1:C:455:LEU:N	2.30	0.44
1:C:112:ASP:O	1:C:140:ALA:N	2.50	0.44
1:C:137:ILE:HG22	1:C:139:ALA:HB2	1.98	0.44
1:C:283:PRO:HG2	1:C:285:TYR:HE1	1.83	0.44
1:C:283:PRO:HG2	1:C:285:TYR:CE1	2.53	0.44
1:F:65:ASN:O	1:F:66:VAL:CG1	2.66	0.44
1:F:150:PHE:HE2	1:F:170:ILE:HD12	1.83	0.44
1:F:186:PRO:O	1:F:190:VAL:HG23	2.17	0.44
1:F:228:TYR:O	1:F:229:GLN:HG3	2.18	0.44
1:H:440:GLN:O	1:H:443:ALA:O	2.35	0.44
1:E:32:PHE:CE2	1:E:410:VAL:HA	2.52	0.43
1:E:131:ILE:HD11	1:B:124:ARG:HH22	1.82	0.43
1:E:278:LEU:HA	1:E:325:TYR:HE1	1.82	0.43
1:B:170:ILE:O	1:B:173:MET:HB2	2.18	0.43
1:C:152:ALA:HB1	1:C:213:ILE:HG22	1.99	0.43
1:C:302:VAL:O	1:C:382:LYS:NZ	2.34	0.43
1:C:399[B]:ARG:NH1	1:C:404:ALA:HB1	2.32	0.43
1:D:56:TRP:CZ3	1:D:423:GLN:HA	2.53	0.43
1:D:170:ILE:O	1:D:173:MET:HB3	2.18	0.43
1:H:342:ASN:O	1:H:375:TRP:CD1	2.69	0.43
1:E:4:ILE:HD12	1:E:442:GLY:O	2.18	0.43
1:E:63:ASN:ND2	1:E:371:ASP:OD2	2.51	0.43
1:A:300:GLN:OE1	1:A:344:ASP:HB2	2.19	0.43
1:B:32:PHE:CE2	1:B:409:SER:HB2	2.53	0.43
1:B:283:PRO:O	1:B:285:TYR:N	2.51	0.43
1:C:416:ALA:HB3	1:C:442:GLY:N	2.33	0.43
1:D:67:HIS:HD2	1:D:114:HIS:O	2.01	0.43
1:G:304:ASP:HA	1:G:307:ARG:HD2	2.00	0.43
1:E:429:ILE:CG2	1:E:430:ARG:N	2.80	0.43
1:A:236:LEU:O	1:A:266:LEU:HD21	2.18	0.43
1:B:71:ALA:O	1:B:75:MET:HB3	2.18	0.43
1:B:84:LEU:HD13	1:B:170:ILE:HG21	2.00	0.43
1:B:138:PHE:CA	1:B:203:ASP:OD2	2.66	0.43
1:B:165:THR:HG22	1:G:355:ASP:OD1	2.19	0.43
1:C:104:ARG:CG	1:C:447:ARG:NH1	2.81	0.43
1:C:219:ASP:OD2	1:C:223:GLY:N	2.51	0.43
1:D:278:LEU:CA	1:D:325:TYR:CE1	2.96	0.43
1:D:283:PRO:HB2	1:D:285:TYR:HD2	1.83	0.43
1:F:63:ASN:OD1	1:F:66:VAL:HG13	2.17	0.43
1:F:97:GLU:OE2	1:F:457:THR:OG1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:282:ILE:N	1:F:283:PRO:HB3	2.33	0.43
1:G:8:ASN:N	1:G:24:THR:OG1	2.44	0.43
1:G:178:VAL:HG21	1:G:197:TYR:CG	2.53	0.43
1:G:395:ILE:H	1:G:395:ILE:HG13	1.47	0.43
1:H:13:ASP:HB2	1:H:15:LEU:H	1.84	0.43
1:H:359:VAL:O	1:H:360:GLU:C	2.56	0.43
1:E:181:GLN:O	1:E:183:SER:N	2.51	0.43
1:A:149:PRO:HA	1:A:154:PHE:HD2	1.82	0.43
1:A:235:VAL:O	1:A:239:MET:CG	2.65	0.43
1:A:287:ILE:HG22	1:A:291:VAL:CG2	2.48	0.43
1:A:317:ALA:O	1:A:319:ALA:N	2.44	0.43
1:D:75:MET:SD	1:D:215:PHE:CZ	3.12	0.43
1:D:330:ARG:O	1:D:334:SER:OG	2.29	0.43
1:F:92:VAL:HG13	1:F:123:ALA:HB2	1.99	0.43
1:F:116:ALA:HB2	1:F:174:PHE:CE1	2.53	0.43
1:F:252:THR:HG23	1:F:268:ALA:CB	2.48	0.43
1:G:118:GLU:H	1:G:118:GLU:HG3	1.42	0.43
1:H:6:ILE:O	1:H:24:THR:CG2	2.63	0.43
1:H:203:ASP:C	1:H:248:VAL:HG13	2.33	0.43
1:H:306:HIS:HD2	1:H:365:PRO:HG3	1.83	0.43
1:H:333:ILE:HD11	1:H:379:MET:SD	2.59	0.43
1:E:143:ILE:HG23	1:E:206:LYS:HG2	2.00	0.43
1:E:324:PRO:HA	1:E:327:THR:HB	2.01	0.43
1:A:72:TRP:O	1:A:76:ALA:CB	2.66	0.43
1:B:258:GLU:O	1:B:259:ALA:CB	2.67	0.43
1:C:206:LYS:HZ1	1:C:253:HIS:CB	2.32	0.43
1:D:74:PHE:N	1:D:74:PHE:CD1	2.85	0.43
1:D:259:ALA:O	1:D:262:THR:HG22	2.19	0.43
1:F:264:VAL:HG12	1:F:293:SER:CB	2.37	0.43
1:F:428:ASP:CG	1:F:430:ARG:CG	2.87	0.43
1:F:429:ILE:CD1	1:F:432:LEU:HD11	2.42	0.43
1:G:195:ARG:NE	1:G:242:GLU:OE1	2.26	0.43
1:H:260:LEU:HD23	1:H:286:LEU:HD23	2.00	0.43
1:H:339:ILE:O	1:H:396:ASN:HB3	2.19	0.43
1:E:387:LEU:O	1:E:390:ILE:HG22	2.18	0.43
1:E:411:GLU:HG2	1:E:412:THR:H	1.83	0.43
1:A:6:ILE:O	1:A:24:THR:HG23	2.18	0.43
1:A:152:ALA:C	1:A:154:PHE:H	2.20	0.43
1:A:191:ARG:NE	1:A:238:VAL:HG21	2.33	0.43
1:A:355:ASP:OD2	1:F:164:ARG:HG2	2.19	0.43
1:C:93:GLU:O	1:C:97:GLU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:153:ASP:H	1:C:213:ILE:HG22	1.83	0.43
1:F:290:ILE:CG2	1:F:291:VAL:N	2.81	0.43
1:G:215:PHE:HA	1:G:218:VAL:HA	2.01	0.43
1:G:435:ILE:HG21	1:G:438:VAL:HG23	1.99	0.43
1:H:76:ALA:CB	1:H:77:GLY:HA2	2.21	0.43
1:H:180:HIS:C	1:H:182:LEU:H	2.22	0.43
1:A:210:SER:HA	1:A:229:GLN:HA	2.00	0.43
1:A:238:VAL:CG1	1:A:239:MET:N	2.81	0.43
1:D:64:GLY:O	1:D:401:TYR:OH	2.34	0.43
1:D:167:VAL:O	1:D:171:ASP:OD1	2.37	0.43
1:D:220:ARG:O	1:D:221:SER:CB	2.66	0.43
1:F:32:PHE:CE2	1:F:416:ALA:HA	2.54	0.43
1:F:293:SER:O	1:F:294:ASP:HB2	2.18	0.43
1:G:261:ASP:O	1:G:265:GLU:HG2	2.18	0.43
1:H:232:SER:O	1:H:233:ARG:C	2.56	0.43
1:E:75:MET:CE	1:E:316:TRP:HZ3	2.30	0.43
1:A:13:ASP:OD1	1:A:13:ASP:N	2.41	0.43
1:A:151:SER:HA	1:A:159:ARG:HD2	2.01	0.43
1:B:41:THR:H	1:B:42:PRO:CA	2.29	0.43
1:B:380:VAL:HA	1:B:384:MET:HB3	2.01	0.43
1:C:219:ASP:CG	1:C:222:VAL:CG1	2.87	0.43
1:D:66:VAL:CG2	1:D:110:VAL:CG1	2.96	0.43
1:D:75:MET:HE3	1:D:212:HIS:CE1	2.53	0.43
1:D:224:PHE:HE1	1:D:325:TYR:OH	2.02	0.43
1:D:416:ALA:O	1:D:441:ALA:N	2.52	0.43
1:F:69:LEU:HA	1:F:69:LEU:HD23	1.77	0.43
1:G:4:ILE:HB	1:G:48:THR:OG1	2.18	0.43
1:G:31:ARG:HB2	1:G:414:LYS:O	2.19	0.43
1:G:87:TRP:HB3	1:G:94:VAL:HG21	2.00	0.43
1:H:58:VAL:HG23	1:H:419:VAL:HB	2.01	0.43
1:H:391:SER:O	1:H:395:ILE:HD12	2.19	0.43
1:E:261:ASP:O	1:E:265:GLU:CG	2.56	0.43
1:A:357:SER:OG	1:A:360:GLU:HG3	2.18	0.43
1:B:76:ALA:N	1:B:77:GLY:CA	2.82	0.43
1:C:114:HIS:ND1	1:C:143:ILE:HG13	2.34	0.43
1:C:227:SER:OG	1:C:228:TYR:N	2.52	0.43
1:F:63:ASN:CG	1:F:66:VAL:HG13	2.39	0.43
1:F:131:ILE:HD13	1:H:93:GLU:OE1	2.19	0.43
1:F:203:ASP:O	1:F:249:PRO:HD2	2.19	0.43
1:G:34:THR:HA	1:G:412:THR:HG22	2.01	0.43
1:G:124:ARG:HB2	1:G:137:ILE:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:149:PRO:HA	1:H:154:PHE:HB3	2.01	0.43
1:H:303:HIS:CE1	1:H:306:HIS:HB2	2.52	0.43
1:E:317:ALA:O	1:E:320:LEU:N	2.51	0.43
1:A:251:LEU:HD12	1:A:251:LEU:HA	1.89	0.43
1:A:277:THR:CG2	1:A:282:ILE:HG22	2.49	0.43
1:A:303:HIS:O	1:A:307:ARG:HB2	2.18	0.43
1:C:302:VAL:HA	1:C:374:HIS:CE1	2.50	0.43
1:C:307:ARG:NH2	1:C:311:GLU:CD	2.72	0.43
1:D:36:GLY:HA2	1:D:41:THR:HG21	2.00	0.43
1:D:158:GLY:O	1:D:162:ALA:N	2.52	0.43
1:F:67:HIS:ND1	1:F:114:HIS:HB3	2.34	0.43
1:G:195:ARG:O	1:G:195:ARG:HD3	2.19	0.43
1:G:256:SER:C	1:G:258:GLU:O	2.57	0.43
1:G:365:PRO:HG2	1:G:366:TRP:CZ3	2.54	0.43
1:H:97:GLU:HG3	1:H:455:LEU:HB3	2.00	0.43
1:H:382:LYS:HD3	1:H:382:LYS:HA	1.73	0.43
1:E:56:TRP:NE1	1:E:424:ASP:OD1	2.52	0.42
1:E:320:LEU:N	1:E:320:LEU:HD23	2.34	0.42
1:A:43:VAL:HG11	1:A:49:VAL:HG22	2.02	0.42
1:A:353:LEU:HD21	1:A:364:ARG:NH1	2.34	0.42
1:C:416:ALA:O	1:C:441:ALA:N	2.52	0.42
1:D:103:LEU:CD2	1:D:445:VAL:HG21	2.49	0.42
1:D:195:ARG:HD2	1:D:242:GLU:CD	2.40	0.42
1:G:15:LEU:HA	1:G:395:ILE:CD1	2.48	0.42
1:G:76:ALA:HA	1:G:77:GLY:O	2.18	0.42
1:H:103:LEU:HD22	1:H:134:GLY:O	2.19	0.42
1:H:120:VAL:HG13	1:H:121:LEU:N	2.33	0.42
1:E:43:VAL:HG13	1:E:43:VAL:O	2.18	0.42
1:E:365:PRO:HD2	1:E:366:TRP:CE3	2.54	0.42
1:A:180:HIS:O	1:A:182:LEU:N	2.46	0.42
1:C:231:PHE:HB2	1:C:236:LEU:HD21	2.01	0.42
1:D:103:LEU:HA	1:D:107:VAL:O	2.19	0.42
1:H:317:ALA:C	1:H:319:ALA:N	2.71	0.42
1:H:338:LYS:HD2	1:H:338:LYS:HA	1.65	0.42
1:E:75:MET:HE1	1:E:316:TRP:CZ3	2.53	0.42
1:E:76:ALA:HB3	1:E:77:GLY:CA	2.49	0.42
1:E:452:THR:OG1	1:E:453:THR:N	2.52	0.42
1:C:401:TYR:CD1	1:C:401:TYR:N	2.88	0.42
1:D:9:VAL:CG2	1:D:23:THR:O	2.64	0.42
1:D:282:ILE:HG22	1:D:286:LEU:HB3	2.01	0.42
1:D:284:ASN:HA	1:D:287:ILE:HB	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:152:ALA:O	1:F:153:ASP:HB2	2.19	0.42
1:F:217:LEU:HD12	1:F:226:ARG:NH2	2.10	0.42
1:G:94:VAL:CG1	1:G:456:VAL:CG2	2.97	0.42
1:H:111:PHE:CE2	1:H:397:VAL:HG12	2.54	0.42
1:H:275:ASN:CG	1:H:329:GLU:HG3	2.36	0.42
1:E:204:MET:HB2	1:E:249:PRO:O	2.19	0.42
1:E:214:VAL:CG2	1:E:215:PHE:CE1	3.03	0.42
1:E:421:LEU:HB3	1:E:434:SER:OG	2.19	0.42
1:A:72:TRP:O	1:A:76:ALA:CA	2.67	0.42
1:B:40:SER:C	1:B:41:THR:HG1	2.12	0.42
1:B:185:LEU:H	1:B:185:LEU:HG	1.62	0.42
1:B:229:GLN:CD	1:B:259:ALA:HB2	2.40	0.42
1:B:437:GLU:HA	1:B:447:ARG:HH21	1.84	0.42
1:C:104:ARG:HG2	1:C:447:ARG:HH12	1.84	0.42
1:C:356:LEU:O	1:C:361:ARG:NE	2.52	0.42
1:F:227:SER:O	1:F:228:TYR:C	2.58	0.42
1:G:286:LEU:HD12	1:G:286:LEU:HA	1.90	0.42
1:H:142:THR:HG22	1:H:143:ILE:N	2.34	0.42
1:H:182:LEU:HD12	1:H:231:PHE:CZ	2.54	0.42
1:A:12:ILE:HG21	1:A:390:ILE:HD13	2.01	0.42
1:A:180:HIS:ND1	1:A:180:HIS:C	2.72	0.42
1:A:232:SER:OG	1:A:235:VAL:HG23	2.19	0.42
1:C:227:SER:CB	1:C:228:TYR:HA	2.36	0.42
1:D:109:THR:HG23	1:D:136:ARG:HB2	2.02	0.42
1:D:166:PHE:CE1	1:D:170:ILE:HG13	2.55	0.42
1:F:14:GLY:HA2	1:F:390:ILE:CD1	2.47	0.42
1:H:96:GLU:O	1:H:100:GLN:HG3	2.19	0.42
1:H:317:ALA:O	1:H:319:ALA:N	2.52	0.42
1:H:343:THR:OG1	1:H:371:ASP:OD1	2.36	0.42
1:H:392:ALA:HA	1:H:396:ASN:HB2	2.00	0.42
1:E:416:ALA:O	1:E:441:ALA:N	2.53	0.42
1:A:350:LYS:CB	1:A:459:HIS:NE2	2.82	0.42
1:B:302:VAL:HG12	1:B:306:HIS:HB3	2.01	0.42
1:B:323:GLU:HB3	1:B:324:PRO:CD	2.49	0.42
1:D:74:PHE:O	1:D:75:MET:CB	2.68	0.42
1:D:252:THR:CG2	1:D:263:SER:OG	2.68	0.42
1:F:102:ALA:HB1	1:F:107:VAL:CG2	2.49	0.42
1:F:163:THR:O	1:F:166:PHE:N	2.52	0.42
1:H:92:VAL:O	1:H:96:GLU:HG3	2.19	0.42
1:E:3:THR:HG21	1:E:44:PRO:HG2	2.01	0.42
1:E:6:ILE:HD13	1:E:50:VAL:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:126:ARG:HH11	1:A:126:ARG:N	2.18	0.42
1:A:236:LEU:C	1:A:266:LEU:HD21	2.40	0.42
1:A:250:VAL:HB	1:A:269:ASP:H	1.84	0.42
1:A:286:LEU:O	1:A:289:LYS:N	2.53	0.42
1:A:373:PHE:HB3	1:A:433:ARG:HH21	1.84	0.42
1:B:326:ALA:C	1:B:328:ASN:H	2.22	0.42
1:D:299:LEU:O	1:D:375:TRP:NE1	2.43	0.42
1:F:420:LEU:HD12	1:F:437:GLU:HB2	2.02	0.42
1:G:100:GLN:OE1	1:G:450:LEU:HG	2.19	0.42
1:G:304:ASP:O	1:G:307:ARG:HG2	2.20	0.42
1:E:90:ARG:NE	1:E:93:GLU:OE1	2.42	0.42
1:A:178:VAL:HA	1:A:182:LEU:CD1	2.48	0.42
1:C:373:PHE:CD2	1:C:433:ARG:HG2	2.54	0.42
1:F:4:ILE:CG2	1:F:48:THR:HB	2.49	0.42
1:F:459:HIS:HA	1:F:460:PRO:HA	1.65	0.42
1:G:76:ALA:HB1	1:G:77:GLY:CA	2.49	0.42
1:G:239:MET:HE2	1:G:239:MET:HB3	1.85	0.42
1:H:30:ASP:O	1:H:31:ARG:CG	2.68	0.42
1:H:138:PHE:CE2	1:H:403:LYS:HG3	2.55	0.42
1:H:143:ILE:HG21	1:H:146:MET:HE3	1.98	0.42
1:H:182:LEU:HB3	1:H:231:PHE:HE2	1.85	0.42
1:H:224:PHE:O	1:H:224:PHE:HD1	2.03	0.42
1:E:351:ASP:OD2	1:D:169:ARG:NH2	2.53	0.42
1:A:9:VAL:HG12	1:A:10:THR:N	2.34	0.42
1:A:180:HIS:C	1:A:182:LEU:N	2.74	0.42
1:B:350:LYS:HD3	1:B:459:HIS:HB3	2.01	0.42
1:C:447:ARG:HB3	1:C:447:ARG:HH11	1.85	0.42
1:D:364:ARG:HA	1:D:365:PRO:HD2	1.95	0.42
1:F:12:ILE:O	1:F:58:VAL:HA	2.20	0.42
1:F:123:ALA:O	1:F:126:ARG:HB2	2.20	0.42
1:G:301:THR:HG22	1:G:302:VAL:H	1.85	0.42
1:G:320:LEU:HA	1:G:325:TYR:CE1	2.55	0.42
1:H:152:ALA:O	1:H:153:ASP:HB2	2.20	0.42
1:H:386:PRO:O	1:H:390:ILE:HD12	2.20	0.42
1:H:459:HIS:HA	1:H:460:PRO:HA	1.85	0.42
1:E:143:ILE:HD13	1:E:206:LYS:HE2	2.02	0.42
1:E:364:ARG:HA	1:E:365:PRO:HD3	1.83	0.42
1:A:60:GLY:HA3	1:A:108:THR:OG1	2.19	0.42
1:F:75:MET:HE1	1:F:212:HIS:HE1	1.80	0.42
1:F:117:ILE:HD11	1:F:197:TYR:CE1	2.55	0.42
1:F:428:ASP:O	1:F:429:ILE:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:59:PRO:HG2	1:G:394:THR:HG21	2.02	0.42
1:G:258:GLU:O	1:G:259:ALA:CB	2.67	0.42
1:H:197:TYR:CE2	1:H:205:LEU:HD11	2.55	0.42
1:H:230:THR:HB	1:H:231:PHE:CD1	2.55	0.42
1:H:361:ARG:O	1:H:363:ASP:N	2.53	0.42
1:H:387:LEU:HD13	1:H:426:VAL:HG21	2.02	0.42
1:H:406:GLN:CB	1:H:415:LEU:HD13	2.34	0.42
1:E:146:MET:SD	1:E:212:HIS:HB2	2.60	0.41
1:E:191:ARG:HB2	1:E:238:VAL:CG1	2.49	0.41
1:E:208:ALA:HA	1:E:253:HIS:HB3	2.02	0.41
1:E:341:LEU:HA	1:E:375:TRP:CZ2	2.55	0.41
1:A:140:ALA:HB2	1:A:204:MET:CG	2.50	0.41
1:C:21:PRO:O	1:C:22:ALA:CB	2.68	0.41
1:C:36:GLY:HA2	1:C:37:PRO:HD3	1.78	0.41
1:C:259:ALA:HA	1:C:262:THR:HB	2.02	0.41
1:D:81:ILE:HD11	1:D:158:GLY:HA3	2.01	0.41
1:D:145:GLY:HA2	1:D:231:PHE:HZ	1.85	0.41
1:F:296:TRP:CE3	1:F:338:LYS:HB3	2.55	0.41
1:G:111:PHE:HE2	1:G:397:VAL:CG1	2.33	0.41
1:H:340:LEU:O	1:H:375:TRP:CZ2	2.73	0.41
1:E:54:ARG:HG2	1:E:54:ARG:O	2.19	0.41
1:A:35:VAL:HG12	1:A:36:GLY:N	2.35	0.41
1:A:179:GLY:O	1:A:180:HIS:C	2.59	0.41
1:B:117:ILE:HD11	1:B:202:VAL:HG13	2.01	0.41
1:C:6:ILE:HG22	1:C:25:VAL:CA	2.49	0.41
1:C:340:LEU:HD23	1:C:341:LEU:N	2.35	0.41
1:D:337:ALA:O	1:D:338:LYS:CB	2.67	0.41
1:D:378:SER:O	1:D:382:LYS:HG2	2.20	0.41
1:F:100:GLN:HB3	1:F:450:LEU:HG	2.03	0.41
1:F:213:ILE:O	1:F:213:ILE:HG22	2.19	0.41
1:G:87:TRP:CE3	1:G:455:LEU:HD23	2.54	0.41
1:G:282:ILE:CG1	1:G:328:ASN:OD1	2.68	0.41
1:H:69:LEU:HD23	1:H:69:LEU:HA	1.79	0.41
1:E:286:LEU:O	1:E:286:LEU:HD23	2.20	0.41
1:E:367:THR:O	1:E:371:ASP:HB3	2.21	0.41
1:A:87:TRP:O	1:A:90:ARG:HB2	2.20	0.41
1:B:389:ALA:O	1:B:392:ALA:HB2	1.95	0.41
1:C:206:LYS:NZ	1:C:253:HIS:CB	2.84	0.41
1:C:227:SER:CB	1:C:228:TYR:CA	2.97	0.41
1:C:399[B]:ARG:HH11	1:C:404:ALA:CB	2.33	0.41
1:D:74:PHE:C	1:D:76:ALA:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:103:LEU:HD13	1:D:135:ALA:HB2	2.03	0.41
1:D:104:ARG:HB2	1:D:447:ARG:HG3	2.02	0.41
1:D:109:THR:HG21	1:D:407:ILE:HD13	2.01	0.41
1:D:219:ASP:CG	1:D:222:VAL:HG11	2.39	0.41
1:D:255:VAL:HA	1:D:276:TYR:O	2.21	0.41
1:D:347:CYS:HA	1:D:348:PRO:HD2	1.83	0.41
1:D:348:PRO:CG	1:D:353:LEU:HD21	2.49	0.41
1:D:378:SER:HB3	1:D:382:LYS:NZ	2.36	0.41
1:D:387:LEU:O	1:D:390:ILE:CA	2.69	0.41
1:F:386:PRO:O	1:F:390:ILE:HG13	2.20	0.41
1:G:38:SER:C	1:G:40:SER:N	2.73	0.41
1:H:121:LEU:HD22	1:H:124:ARG:NH1	2.35	0.41
1:H:380:VAL:O	1:H:381:GLU:CB	2.68	0.41
1:E:77:GLY:H	1:E:78:PRO:HD3	1.85	0.41
1:E:97:GLU:O	1:E:101:LEU:HD12	2.20	0.41
1:A:180:HIS:C	1:A:180:HIS:HD1	2.24	0.41
1:B:450:LEU:HD12	1:B:450:LEU:HA	1.91	0.41
1:C:194:VAL:O	1:C:197:TYR:N	2.53	0.41
1:C:398:ALA:HB1	1:C:404:ALA:N	2.35	0.41
1:C:405:ASP:OD1	1:C:405:ASP:N	2.42	0.41
1:D:187:ARG:NH1	1:D:234:PRO:HB2	2.35	0.41
1:D:270:VAL:HG13	1:D:340:LEU:HD21	2.03	0.41
1:F:121:LEU:HD11	1:F:202:VAL:HG12	2.03	0.41
1:F:194:VAL:O	1:F:197:TYR:HB3	2.20	0.41
1:G:111:PHE:HE2	1:G:397:VAL:HG12	1.86	0.41
1:H:74:PHE:N	1:H:74:PHE:HD1	2.16	0.41
1:E:30:ASP:O	1:E:31:ARG:C	2.59	0.41
1:A:350:LYS:CA	1:A:353:LEU:HB2	2.37	0.41
1:A:394:THR:HB	1:A:408:GLY:O	2.20	0.41
1:B:205:LEU:HD12	1:B:205:LEU:HA	1.89	0.41
1:B:299:LEU:HD13	1:B:339:ILE:HG23	2.01	0.41
1:D:36:GLY:CA	1:D:41:THR:CG2	2.98	0.41
1:F:61:TYR:CZ	1:F:432:LEU:HD22	2.54	0.41
1:F:251:LEU:HD22	1:F:270:VAL:CB	2.41	0.41
1:H:218:VAL:O	1:H:218:VAL:CG2	2.69	0.41
1:H:255:VAL:HG23	1:H:256:SER:N	2.35	0.41
1:H:258:GLU:C	1:H:260:LEU:H	2.24	0.41
1:E:143:ILE:HG12	1:E:206:LYS:HD3	2.03	0.41
1:B:165:THR:HG23	1:G:351:ASP:HB3	2.02	0.41
1:B:229:GLN:OE1	1:B:259:ALA:HB2	2.20	0.41
1:B:395:ILE:HD13	1:B:399[B]:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:206:LYS:NZ	1:C:253:HIS:HB2	2.35	0.41
1:G:8:ASN:H	1:G:24:THR:HG1	1.65	0.41
1:G:15:LEU:HD12	1:G:409:SER:OG	2.20	0.41
1:G:219:ASP:O	1:G:220:ARG:HB2	2.20	0.41
1:H:152:ALA:CB	1:H:213:ILE:HG12	2.50	0.41
1:E:372:HIS:O	1:E:375:TRP:HB3	2.20	0.41
1:A:350:LYS:HB2	1:A:459:HIS:NE2	2.36	0.41
1:B:44:PRO:C	1:B:46:GLY:H	2.24	0.41
1:C:121:LEU:HD21	1:C:124:ARG:CZ	2.50	0.41
1:F:194:VAL:O	1:F:198:LEU:HG	2.21	0.41
1:F:356:LEU:CD2	1:F:360:GLU:CD	2.89	0.41
1:G:5:ALA:HB1	1:G:26:ILE:HG12	2.03	0.41
1:G:116:ALA:O	1:G:119:PRO:HD2	2.20	0.41
1:H:18:LEU:HA	1:H:18:LEU:HD22	1.62	0.41
1:H:332:LEU:HD22	1:H:337:ALA:CB	2.48	0.41
1:A:18:LEU:HD12	1:A:18:LEU:H	1.86	0.41
1:A:175:GLU:O	1:A:178:VAL:O	2.38	0.41
1:A:191:ARG:HH22	1:A:239:MET:HE3	1.86	0.41
1:A:255:VAL:CG1	1:A:278:LEU:HG	2.51	0.41
1:B:144:VAL:O	1:B:208:ALA:HB3	2.21	0.41
1:B:256:SER:O	1:B:258:GLU:O	2.38	0.41
1:B:395:ILE:HD12	1:B:399[B]:ARG:NH2	2.35	0.41
1:C:74:PHE:N	1:C:74:PHE:HD1	2.17	0.41
1:D:38:SER:CB	1:D:40:SER:O	2.69	0.41
1:D:74:PHE:O	1:D:75:MET:HB2	2.20	0.41
1:D:91:TYR:O	1:D:94:VAL:N	2.53	0.41
1:D:235:VAL:HA	1:D:238:VAL:HB	2.02	0.41
1:D:272:ILE:HG23	1:D:342:ASN:OD1	2.20	0.41
1:D:319:ALA:O	1:D:323:GLU:HG3	2.21	0.41
1:F:38:SER:HB2	1:F:40:SER:C	2.41	0.41
1:G:124:ARG:CB	1:G:137:ILE:HG13	2.51	0.41
1:G:261:ASP:OD1	1:G:289:LYS:CE	2.69	0.41
1:G:341:LEU:HG	1:G:375:TRP:CE3	2.56	0.41
1:H:111:PHE:HE2	1:H:397:VAL:CG1	2.33	0.41
1:E:348:PRO:HG2	1:E:364:ARG:HH12	1.86	0.41
1:E:378:SER:HA	1:E:381:GLU:HB3	2.03	0.41
1:A:20:ARG:HA	1:A:20:ARG:HD3	1.85	0.41
1:A:114:HIS:O	1:A:115:ASN:HB2	2.20	0.41
1:A:131:ILE:HD12	1:A:131:ILE:HA	1.94	0.41
1:A:251:LEU:HD11	1:A:270:VAL:HG21	2.02	0.41
1:B:31:ARG:HH11	1:B:414:LYS:C	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:ASP:O	1:B:222:VAL:O	2.38	0.41
1:B:306:HIS:NE2	1:B:365:PRO:HD3	2.36	0.41
1:C:261:ASP:OD1	1:C:286:LEU:HD13	2.21	0.41
1:D:75:MET:CG	1:D:215:PHE:CE1	2.98	0.41
1:D:450:LEU:HD23	1:D:450:LEU:HA	1.84	0.41
1:F:100:GLN:OE1	1:F:452:THR:HG22	2.20	0.41
1:F:185:LEU:HD22	1:F:189:GLU:HB2	2.03	0.41
1:F:281:GLU:O	1:F:283:PRO:HB3	2.20	0.41
1:G:10:THR:HA	1:G:21:PRO:HA	2.02	0.41
1:G:256:SER:O	1:G:258:GLU:O	2.38	0.41
1:H:66:VAL:O	1:H:67:HIS:CD2	2.50	0.41
1:H:75:MET:O	1:H:76:ALA:C	2.59	0.41
1:E:74:PHE:N	1:E:74:PHE:CD1	2.87	0.41
1:E:164:ARG:HD3	1:E:164:ARG:HA	1.76	0.41
1:E:397:VAL:O	1:E:401:TYR:HD2	2.04	0.41
1:A:353:LEU:HD23	1:A:353:LEU:HA	1.89	0.41
1:A:382:LYS:HA	1:A:382:LYS:HD3	1.82	0.41
1:A:456:VAL:O	1:A:456:VAL:CG1	2.68	0.41
1:C:232:SER:O	1:C:236:LEU:HG	2.21	0.41
1:C:326:ALA:HB1	1:C:382:LYS:HE3	2.02	0.41
1:H:11:LEU:HD13	1:H:57:MET:HB3	2.03	0.41
1:H:252:THR:CG2	1:H:271:LEU:HA	2.50	0.41
1:E:156:PHE:HA	1:E:157:ALA:C	2.42	0.40
1:E:339:ILE:HG21	1:E:379:MET:CE	2.52	0.40
1:E:346:GLY:HA2	1:E:368:ILE:HD12	2.03	0.40
1:E:363:ASP:OD2	1:E:374:HIS:ND1	2.52	0.40
1:E:416:ALA:HB3	1:E:442:GLY:HA2	2.03	0.40
1:A:16:GLY:O	1:A:387:LEU:HD13	2.21	0.40
1:A:66:VAL:CG1	1:A:368:ILE:CD1	2.98	0.40
1:B:75:MET:O	1:B:75:MET:CG	2.69	0.40
1:B:148:GLY:O	1:B:151:SER:OG	2.39	0.40
1:B:385:SER:CA	1:B:387:LEU:O	2.69	0.40
1:C:219:ASP:CG	1:C:223:GLY:N	2.74	0.40
1:D:71:ALA:O	1:D:74:PHE:N	2.55	0.40
1:D:282:ILE:HB	1:D:287:ILE:HD12	2.01	0.40
1:F:11:LEU:HB2	1:F:23:THR:HG21	2.03	0.40
1:F:83:TYR:O	1:F:87:TRP:HD1	2.04	0.40
1:F:428:ASP:HB3	1:F:430:ARG:HG3	2.02	0.40
1:G:129:ALA:HB3	1:G:131:ILE:CD1	2.51	0.40
1:H:182:LEU:CD2	1:H:193:ARG:NH1	2.84	0.40
1:H:206:LYS:NZ	1:H:272:ILE:CG2	2.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:260:LEU:CD1	1:H:271:LEU:HD22	2.49	0.40
1:E:124:ARG:HG3	1:E:137:ILE:O	2.21	0.40
1:A:235:VAL:CA	1:A:238:VAL:CG1	2.94	0.40
1:A:271:LEU:HD12	1:A:297:ALA:HA	1.98	0.40
1:C:99:ALA:HB1	1:C:135:ALA:H	1.86	0.40
1:D:353:LEU:O	1:D:356:LEU:HB2	2.20	0.40
1:G:181:GLN:O	1:G:182:LEU:CG	2.69	0.40
1:G:350:LYS:HD2	1:G:353:LEU:HD12	2.02	0.40
1:H:112:ASP:O	1:H:140:ALA:HB3	2.21	0.40
1:E:73:MET:O	1:E:76:ALA:CB	2.70	0.40
1:E:191:ARG:HB2	1:E:238:VAL:HG13	2.03	0.40
1:E:213:ILE:HG21	1:E:216:THR:HG22	2.03	0.40
1:E:315:SER:O	1:E:316:TRP:CD1	2.74	0.40
1:A:299:LEU:HD23	1:A:299:LEU:HA	1.72	0.40
1:B:178:VAL:CG2	1:B:197:TYR:HB2	2.52	0.40
1:B:409:SER:CB	1:B:410:VAL:HA	2.32	0.40
1:C:10:THR:HB	1:C:21:PRO:HB3	2.03	0.40
1:C:347:CYS:HA	1:C:348:PRO:HD3	1.94	0.40
1:G:61:TYR:HD2	1:G:106:GLY:C	2.25	0.40
1:E:112:ASP:HB3	1:E:139:ALA:HA	2.03	0.40
1:E:313:VAL:HG11	1:E:360:GLU:OE1	2.22	0.40
1:E:315:SER:C	1:E:317:ALA:H	2.24	0.40
1:A:71:ALA:O	1:A:74:PHE:CB	2.58	0.40
1:A:191:ARG:NH1	1:A:238:VAL:HG22	2.35	0.40
1:B:73:MET:O	1:B:76:ALA:CB	2.70	0.40
1:B:77:GLY:C	1:B:155:HIS:HD1	2.25	0.40
1:B:77:GLY:N	1:B:78:PRO:CD	2.84	0.40
1:B:88:GLU:OE1	1:B:169:ARG:NH1	2.53	0.40
1:F:150:PHE:HE2	1:F:170:ILE:CD1	2.34	0.40
1:F:236:LEU:HB3	1:F:266:LEU:CD2	2.50	0.40
1:E:140:ALA:HB2	1:E:204:MET:CG	2.52	0.40
1:E:284:ASN:O	1:E:285:TYR:HB3	2.18	0.40
1:A:71:ALA:O	1:A:75:MET:N	2.47	0.40
1:A:117:ILE:HG13	1:A:121:LEU:HG	2.04	0.40
1:A:205:LEU:HD12	1:A:205:LEU:HA	1.93	0.40
1:B:65:ASN:C	1:B:66:VAL:HG13	2.42	0.40
1:B:323:GLU:O	1:B:325:TYR:N	2.54	0.40
1:C:58:VAL:CG2	1:C:419:VAL:HB	2.51	0.40
1:F:69:LEU:O	1:F:70:ASP:HB3	2.20	0.40
1:F:193:ARG:HA	1:F:196:ASP:HB3	2.02	0.40
1:F:420:LEU:HD23	1:F:420:LEU:HA	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:181:GLN:CG	1:G:182:LEU:N	2.84	0.40
1:G:244:ARG:HH22	1:G:250:VAL:HG12	1.87	0.40
1:G:439:PHE:CZ	1:G:444:ALA:HB2	2.56	0.40
1:H:178:VAL:HG11	1:H:197:TYR:CD1	2.56	0.40
1:H:227:SER:OG	1:H:228:TYR:N	2.55	0.40
1:H:233:ARG:HH22	1:H:262:THR:HG1	1.65	0.40
1:H:341:LEU:HA	1:H:375:TRP:CH2	2.56	0.40
1:H:360:GLU:OE2	1:H:361:ARG:CZ	2.70	0.40

All (7) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:226:ARG:HE	1:G:180:HIS:HE2[1_455]	0.67	0.93
1:D:226:ARG:HE	1:G:180:HIS:NE2[1_455]	1.26	0.34
1:A:261:ASP:OD2	1:C:187:ARG:HH21[1_655]	1.42	0.18
1:F:219:ASP:OD2	1:H:164:ARG:NH2[1_655]	2.12	0.08
1:D:187:ARG:NH2	1:G:258:GLU:OE2[1_455]	2.13	0.07
1:D:226:ARG:NE	1:G:180:HIS:NE2[1_455]	2.18	0.02
1:D:229:GLN:H	1:G:229:GLN:O[1_455]	1.60	0.00

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	457/461 (99%)	391 (86%)	57 (12%)	9 (2%)	7	30
1	B	459/461 (100%)	420 (92%)	32 (7%)	7 (2%)	10	38
1	C	459/461 (100%)	415 (90%)	35 (8%)	9 (2%)	7	30
1	D	457/461 (99%)	410 (90%)	33 (7%)	14 (3%)	4	19
1	E	457/461 (99%)	412 (90%)	31 (7%)	14 (3%)	4	19

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	457/461 (99%)	402 (88%)	45 (10%)	10 (2%)	6	28
1	G	457/461 (99%)	407 (89%)	40 (9%)	10 (2%)	6	28
1	H	457/461 (99%)	401 (88%)	46 (10%)	10 (2%)	6	28
All	All	3660/3688 (99%)	3258 (89%)	319 (9%)	83 (2%)	6	27

All (83) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	E	323	GLU
1	A	41	THR
1	A	255	VAL
1	B	31	ARG
1	B	41	THR
1	B	394	THR
1	C	323	GLU
1	D	37	PRO
1	D	71	ALA
1	D	73	MET
1	D	76	ALA
1	F	30	ASP
1	F	228	TYR
1	F	283	PRO
1	F	323	GLU
1	F	429	ILE
1	G	323	GLU
1	H	203	ASP
1	H	323	GLU
1	H	360	GLU
1	E	76	ALA
1	E	158	GLY
1	E	221	SER
1	C	31	ARG
1	C	223	GLY
1	C	338	LYS
1	F	77	GLY
1	F	226	ARG
1	F	428	ASP
1	G	31	ARG
1	G	45	GLU
1	G	225	ASP
1	H	31	ARG

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Mol	Chain	Res	Type
1	E	180	HIS
1	A	228	TYR
1	B	37	PRO
1	B	389	ALA
1	C	259	ALA
1	D	338	LYS
1	F	329	GLU
1	G	139	ALA
1	E	41	THR
1	E	182	LEU
1	E	226	ARG
1	E	259	ALA
1	E	285	TYR
1	A	37	PRO
1	A	75	MET
1	D	45	GLU
1	D	181	GLN
1	D	258	GLU
1	F	151	SER
1	G	3	THR
1	G	153	ASP
1	H	30	ASP
1	H	181	GLN
1	H	456	VAL
1	A	85	ALA
1	B	42	PRO
1	B	323	GLU
1	C	219	ASP
1	C	224	PHE
1	D	31	ARG
1	D	259	ALA
1	H	41	THR
1	E	199	SER
1	E	213	ILE
1	E	316	TRP
1	A	30	ASP
1	C	44	PRO
1	G	182	LEU
1	G	452	THR
1	E	454	PRO
1	A	323	GLU
1	D	323	GLU

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Mol	Chain	Res	Type
1	G	178	VAL
1	D	222	VAL
1	C	37	PRO
1	D	167	VAL
1	D	413	GLY
1	H	78	PRO
1	A	46	GLY
1	H	255	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	367/368 (100%)	313 (85%)	54 (15%)	3	12
1	B	368/368 (100%)	313 (85%)	55 (15%)	3	12
1	C	368/368 (100%)	327 (89%)	41 (11%)	6	22
1	D	367/368 (100%)	307 (84%)	60 (16%)	2	9
1	E	367/368 (100%)	315 (86%)	52 (14%)	3	13
1	F	367/368 (100%)	315 (86%)	52 (14%)	3	13
1	G	367/368 (100%)	308 (84%)	59 (16%)	2	10
1	H	367/368 (100%)	302 (82%)	65 (18%)	2	8
All	All	2938/2944 (100%)	2500 (85%)	438 (15%)	3	12

All (438) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	8	ASN
1	E	10	THR
1	E	25	VAL
1	E	30	ASP
1	E	31	ARG
1	E	41	THR
1	E	45	GLU

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Mol	Chain	Res	Type
1	E	75	MET
1	E	82	GLU
1	E	97	GLU
1	E	110	VAL
1	E	144	VAL
1	E	153	ASP
1	E	156	PHE
1	E	164	ARG
1	E	178	VAL
1	E	180	HIS
1	E	188	LYS
1	E	198	LEU
1	E	199	SER
1	E	200	ARG
1	E	203	ASP
1	E	204	MET
1	E	207	ILE
1	E	214	VAL
1	E	216	THR
1	E	218	VAL
1	E	220	ARG
1	E	226	ARG
1	E	237	GLU
1	E	238	VAL
1	E	241	GLU
1	E	251	LEU
1	E	254	SER
1	E	269	ASP
1	E	272	ILE
1	E	277	THR
1	E	280	GLN
1	E	285	TYR
1	E	286	LEU
1	E	291	VAL
1	E	302	VAL
1	E	306	HIS
1	E	307	ARG
1	E	320	LEU
1	E	329	GLU
1	E	385	SER
1	E	390	ILE
1	E	406	GLN

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Mol	Chain	Res	Type
1	E	412	THR
1	E	417	ASP
1	E	436	THR
1	A	8	ASN
1	A	10	THR
1	A	13	ASP
1	A	18	LEU
1	A	27	VAL
1	A	31	ARG
1	A	45	GLU
1	A	57	MET
1	A	58	VAL
1	A	66	VAL
1	A	75	MET
1	A	93	GLU
1	A	97	GLU
1	A	126	ARG
1	A	160	THR
1	A	180	HIS
1	A	184	LEU
1	A	218	VAL
1	A	237	GLU
1	A	251	LEU
1	A	271	LEU
1	A	272	ILE
1	A	285	TYR
1	A	293	SER
1	A	300	GLN
1	A	301	THR
1	A	303	HIS
1	A	304	ASP
1	A	315	SER
1	A	325	TYR
1	A	341	LEU
1	A	343	THR
1	A	344	ASP
1	A	351	ASP
1	A	361	ARG
1	A	362	GLU
1	A	364	ARG
1	A	376	THR
1	A	377	GLN

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Mol	Chain	Res	Type
1	A	387	LEU
1	A	390	ILE
1	A	395	ILE
1	A	397	VAL
1	A	399	ARG
1	A	405	ASP
1	A	407	ILE
1	A	409	SER
1	A	411	GLU
1	A	412	THR
1	A	435	ILE
1	A	447	ARG
1	A	451	PRO
1	A	457	THR
1	A	459	HIS
1	B	4	ILE
1	B	13	ASP
1	B	18	LEU
1	B	20	ARG
1	B	23	THR
1	B	30	ASP
1	B	31	ARG
1	B	39	ASP
1	B	45	GLU
1	B	53	ASN
1	B	68	LEU
1	B	75	MET
1	B	121	LEU
1	B	146	MET
1	B	155	HIS
1	B	165	THR
1	B	170	ILE
1	B	184	LEU
1	B	187	ARG
1	B	188	LYS
1	B	195	ARG
1	B	198	LEU
1	B	199	SER
1	B	204	MET
1	B	206	LYS
1	B	210	SER
1	B	214	VAL

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Mol	Chain	Res	Type
1	B	226	ARG
1	B	229	GLN
1	B	232	SER
1	B	242	GLU
1	B	252	THR
1	B	254	SER
1	B	255	VAL
1	B	271	LEU
1	B	281	GLU
1	B	284	ASN
1	B	285	TYR
1	B	288	ASP
1	B	300	GLN
1	B	311	GLU
1	B	350	LYS
1	B	376	THR
1	B	377	GLN
1	B	382	LYS
1	B	387	LEU
1	B	396	ASN
1	B	397	VAL
1	B	420	LEU
1	B	424	ASP
1	B	437	GLU
1	B	447	ARG
1	B	452	THR
1	B	457	THR
1	B	459	HIS
1	C	9	VAL
1	C	23	THR
1	C	25	VAL
1	C	30	ASP
1	C	39	ASP
1	C	49	VAL
1	C	58	VAL
1	C	72	TRP
1	C	75	MET
1	C	90	ARG
1	C	118	GLU
1	C	121	LEU
1	C	124	ARG
1	C	131	ILE

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Mol	Chain	Res	Type
1	C	163	THR
1	C	180	HIS
1	C	191	ARG
1	C	205	LEU
1	C	206	LYS
1	C	214	VAL
1	C	218	VAL
1	C	220	ARG
1	C	224	PHE
1	C	226	ARG
1	C	230	THR
1	C	233	ARG
1	C	251	LEU
1	C	253	HIS
1	C	302	VAL
1	C	307	ARG
1	C	313	VAL
1	C	323	GLU
1	C	338	LYS
1	C	351	ASP
1	C	352	HIS
1	C	363	ASP
1	C	390	ILE
1	C	395	ILE
1	C	427	ASP
1	C	437	GLU
1	C	440	GLN
1	D	23	THR
1	D	24	THR
1	D	30	ASP
1	D	31	ARG
1	D	35	VAL
1	D	38	SER
1	D	72	TRP
1	D	74	PHE
1	D	81	ILE
1	D	82	GLU
1	D	83	TYR
1	D	84	LEU
1	D	118	GLU
1	D	124	ARG
1	D	126	ARG

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Mol	Chain	Res	Type
1	D	131	ILE
1	D	133	GLN
1	D	163	THR
1	D	171	ASP
1	D	180	HIS
1	D	182	LEU
1	D	183	SER
1	D	187	ARG
1	D	195	ARG
1	D	198	LEU
1	D	199	SER
1	D	204	MET
1	D	210	SER
1	D	213	ILE
1	D	216	THR
1	D	219	ASP
1	D	220	ARG
1	D	221	SER
1	D	224	PHE
1	D	230	THR
1	D	232	SER
1	D	238	VAL
1	D	261	ASP
1	D	280	GLN
1	D	282	ILE
1	D	286	LEU
1	D	293	SER
1	D	299	LEU
1	D	327	THR
1	D	333	ILE
1	D	334	SER
1	D	336	ASN
1	D	338	LYS
1	D	342	ASN
1	D	343	THR
1	D	381	GLU
1	D	391	SER
1	D	395	ILE
1	D	399	ARG
1	D	420	LEU
1	D	421	LEU
1	D	422	ASP

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Mol	Chain	Res	Type
1	D	427	ASP
1	D	433	ARG
1	D	436	THR
1	F	38	SER
1	F	40	SER
1	F	43	VAL
1	F	49	VAL
1	F	86	ARG
1	F	112	ASP
1	F	115	ASN
1	F	126	ARG
1	F	151	SER
1	F	154	PHE
1	F	184	LEU
1	F	185	LEU
1	F	188	LYS
1	F	191	ARG
1	F	199	SER
1	F	204	MET
1	F	219	ASP
1	F	224	PHE
1	F	226	ARG
1	F	251	LEU
1	F	263	SER
1	F	265	GLU
1	F	266	LEU
1	F	278	LEU
1	F	281	GLU
1	F	282	ILE
1	F	290	ILE
1	F	291	VAL
1	F	294	ASP
1	F	302	VAL
1	F	303	HIS
1	F	304	ASP
1	F	327	THR
1	F	328	ASN
1	F	329	GLU
1	F	347	CYS
1	F	349	SER
1	F	350	LYS
1	F	351	ASP

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Mol	Chain	Res	Type
1	F	360	GLU
1	F	362	GLU
1	F	412	THR
1	F	422	ASP
1	F	424	ASP
1	F	428	ASP
1	F	429	ILE
1	F	430	ARG
1	F	436	THR
1	F	440	GLN
1	F	447	ARG
1	F	455	LEU
1	F	457	THR
1	G	4	ILE
1	G	7	THR
1	G	9	VAL
1	G	15	LEU
1	G	20	ARG
1	G	26	ILE
1	G	35	VAL
1	G	38	SER
1	G	45	GLU
1	G	48	THR
1	G	50	VAL
1	G	54	ARG
1	G	55	ARG
1	G	75	MET
1	G	78	PRO
1	G	80	THR
1	G	82	GLU
1	G	113	THR
1	G	118	GLU
1	G	124	ARG
1	G	137	ILE
1	G	155	HIS
1	G	164	ARG
1	G	172	SER
1	G	180	HIS
1	G	182	LEU
1	G	205	LEU
1	G	207	ILE
1	G	219	ASP

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Mol	Chain	Res	Type
1	G	220	ARG
1	G	222	VAL
1	G	225	ASP
1	G	230	THR
1	G	263	SER
1	G	266	LEU
1	G	269	ASP
1	G	275	ASN
1	G	285	TYR
1	G	286	LEU
1	G	288	ASP
1	G	293	SER
1	G	300	GLN
1	G	301	THR
1	G	320	LEU
1	G	324	PRO
1	G	327	THR
1	G	342	ASN
1	G	347	CYS
1	G	349	SER
1	G	350	LYS
1	G	364	ARG
1	G	382	LYS
1	G	390	ILE
1	G	391	SER
1	G	395	ILE
1	G	440	GLN
1	G	453	THR
1	G	457	THR
1	G	459	HIS
1	H	11	LEU
1	H	13	ASP
1	H	15	LEU
1	H	18	LEU
1	H	30	ASP
1	H	39	ASP
1	H	45	GLU
1	H	54	ARG
1	H	67	HIS
1	H	101	LEU
1	H	113	THR
1	H	118	GLU

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Mol	Chain	Res	Type
1	H	126	ARG
1	H	151	SER
1	H	180	HIS
1	H	181	GLN
1	H	195	ARG
1	H	199	SER
1	H	200	ARG
1	H	204	MET
1	H	216	THR
1	H	217	LEU
1	H	218	VAL
1	H	220	ARG
1	H	224	PHE
1	H	226	ARG
1	H	229	GLN
1	H	233	ARG
1	H	256	SER
1	H	261	ASP
1	H	271	LEU
1	H	273	HIS
1	H	275	ASN
1	H	285	TYR
1	H	286	LEU
1	H	295	SER
1	H	306	HIS
1	H	310	LEU
1	H	312	ASP
1	H	327	THR
1	H	328	ASN
1	H	330	ARG
1	H	331	ASN
1	H	333	ILE
1	H	338	LYS
1	H	340	LEU
1	H	353	LEU
1	H	357	SER
1	H	361	ARG
1	H	377	GLN
1	H	378	SER
1	H	380	VAL
1	H	381	GLU
1	H	382	LYS

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Mol	Chain	Res	Type
1	H	385	SER
1	H	395	ILE
1	H	406	GLN
1	H	412	THR
1	H	432	LEU
1	H	436	THR
1	H	445	VAL
1	H	447	ARG
1	H	452	THR
1	H	453	THR
1	H	455	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	E	273	HIS
1	E	352	HIS
1	A	212	HIS
1	A	370	ASN
1	F	212	HIS
1	F	253	HIS
1	G	273	HIS
1	H	100	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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

6.1 Protein, DNA and RNA chains

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	459/461 (99%)	0.16	9 (1%) 65 48	19, 40, 57, 93	0
1	B	459/461 (99%)	-0.09	2 (0%) 92 84	9, 26, 44, 70	0
1	C	459/461 (99%)	0.12	6 (1%) 77 61	16, 38, 60, 77	0
1	D	459/461 (99%)	-0.12	4 (0%) 84 71	10, 27, 48, 80	0
1	E	459/461 (99%)	0.03	7 (1%) 73 57	9, 32, 55, 80	0
1	F	459/461 (99%)	0.40	26 (5%) 23 14	23, 47, 68, 87	0
1	G	459/461 (99%)	0.11	16 (3%) 44 29	12, 34, 64, 92	0
1	H	459/461 (99%)	0.28	12 (2%) 56 39	22, 43, 58, 78	0
All	All	3672/3688 (99%)	0.11	82 (2%) 62 45	9, 37, 60, 93	0

All (82) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	41	THR	5.9
1	F	62	VAL	5.6
1	F	6	ILE	5.1
1	D	49	VAL	4.9
1	F	421	LEU	4.6
1	G	39	ASP	4.4
1	D	46	GLY	4.2
1	H	435	ILE	3.8
1	A	221	SER	3.7
1	G	15	LEU	3.6
1	A	251	LEU	3.5
1	H	429	ILE	3.4
1	E	60	GLY	3.4
1	F	394	THR	3.4
1	E	6	ILE	3.4
1	F	257	VAL	3.3

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Mol	Chain	Res	Type	RSRZ
1	F	127	ILE	3.3
1	E	420	LEU	3.2
1	E	454	PRO	3.1
1	F	34	THR	3.0
1	C	40	SER	3.0
1	F	38	SER	3.0
1	F	18	LEU	2.9
1	G	14	GLY	2.9
1	F	267	GLY	2.8
1	H	383	GLY	2.8
1	H	270	VAL	2.8
1	E	41	THR	2.8
1	F	41	THR	2.8
1	F	15	LEU	2.7
1	G	46	GLY	2.7
1	A	254	SER	2.7
1	G	29	GLY	2.7
1	G	319	ALA	2.7
1	C	23	THR	2.6
1	F	24	THR	2.6
1	E	48	THR	2.6
1	A	41	THR	2.6
1	B	427	ASP	2.6
1	F	325	TYR	2.5
1	H	40	SER	2.5
1	F	25	VAL	2.5
1	F	50	VAL	2.5
1	G	78	PRO	2.4
1	G	326	ALA	2.4
1	G	7	THR	2.4
1	F	422	ASP	2.4
1	F	57	MET	2.4
1	G	40	SER	2.4
1	F	382	LYS	2.4
1	F	383	GLY	2.4
1	A	266	LEU	2.4
1	G	410	VAL	2.3
1	H	131	ILE	2.3
1	F	7	THR	2.3
1	G	276	TYR	2.3
1	F	226	ARG	2.3
1	F	420	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	H	337	ALA	2.2
1	A	333	ILE	2.2
1	H	390	ILE	2.2
1	G	41	THR	2.2
1	G	26	ILE	2.2
1	A	178	VAL	2.2
1	A	426	VAL	2.2
1	F	110	VAL	2.2
1	H	432	LEU	2.2
1	F	277	THR	2.1
1	D	48	THR	2.1
1	G	36	GLY	2.1
1	G	25	VAL	2.1
1	D	221	SER	2.1
1	C	7	THR	2.1
1	E	205	LEU	2.1
1	H	6	ILE	2.0
1	A	379	MET	2.0
1	H	336	ASN	2.0
1	C	111	PHE	2.0
1	H	81	ILE	2.0
1	B	49	VAL	2.0
1	F	202	VAL	2.0
1	C	29	GLY	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](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	ZN	A	501	1/1	0.98	0.05	72,72,72,72	0

6.5 Other polymers [i](#)

There are no such residues in this entry.