



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 24, 2023 – 08:51 AM EDT

PDB ID : 5UJ8
Title : Human Origin Recognition Complex subunits 2 and 3
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Deposited on : 2017-01-17
Resolution : 6.00 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

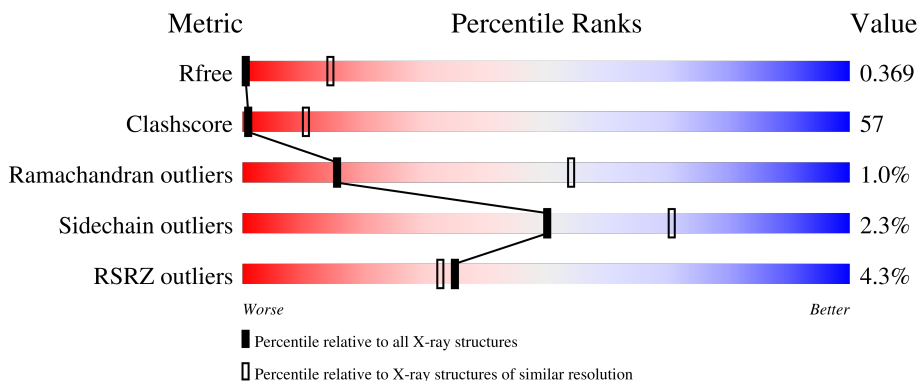
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 6.00 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.



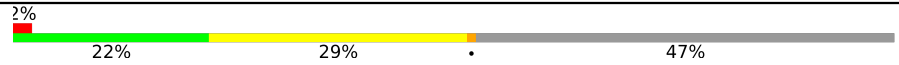


Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1000 (8.00-3.88)
Clashscore	141614	1049 (8.00-3.90)
Ramachandran outliers	138981	1016 (8.00-3.86)
Sidechain outliers	138945	1017 (8.00-3.82)
RSRZ outliers	127900	1015 (8.20-3.78)

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	712	 3% 24% 50% 22%
1	B	712	 3% 25% 50% 22%
1	C	712	 5% 23% 52% 22%
1	D	712	 4% 26% 48% 22%
2	E	347	 % 22% 29% 47%

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Mol	Chain	Length	Quality of chain
2	F	347	
2	G	347	
2	H	347	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 24144 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Origin recognition complex subunit 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	553	4524	2920	767	812	25	0	0	0
1	B	553	4524	2920	767	812	25	0	0	0
1	C	553	4524	2920	767	812	25	0	0	0
1	D	553	4524	2920	767	812	25	0	0	0

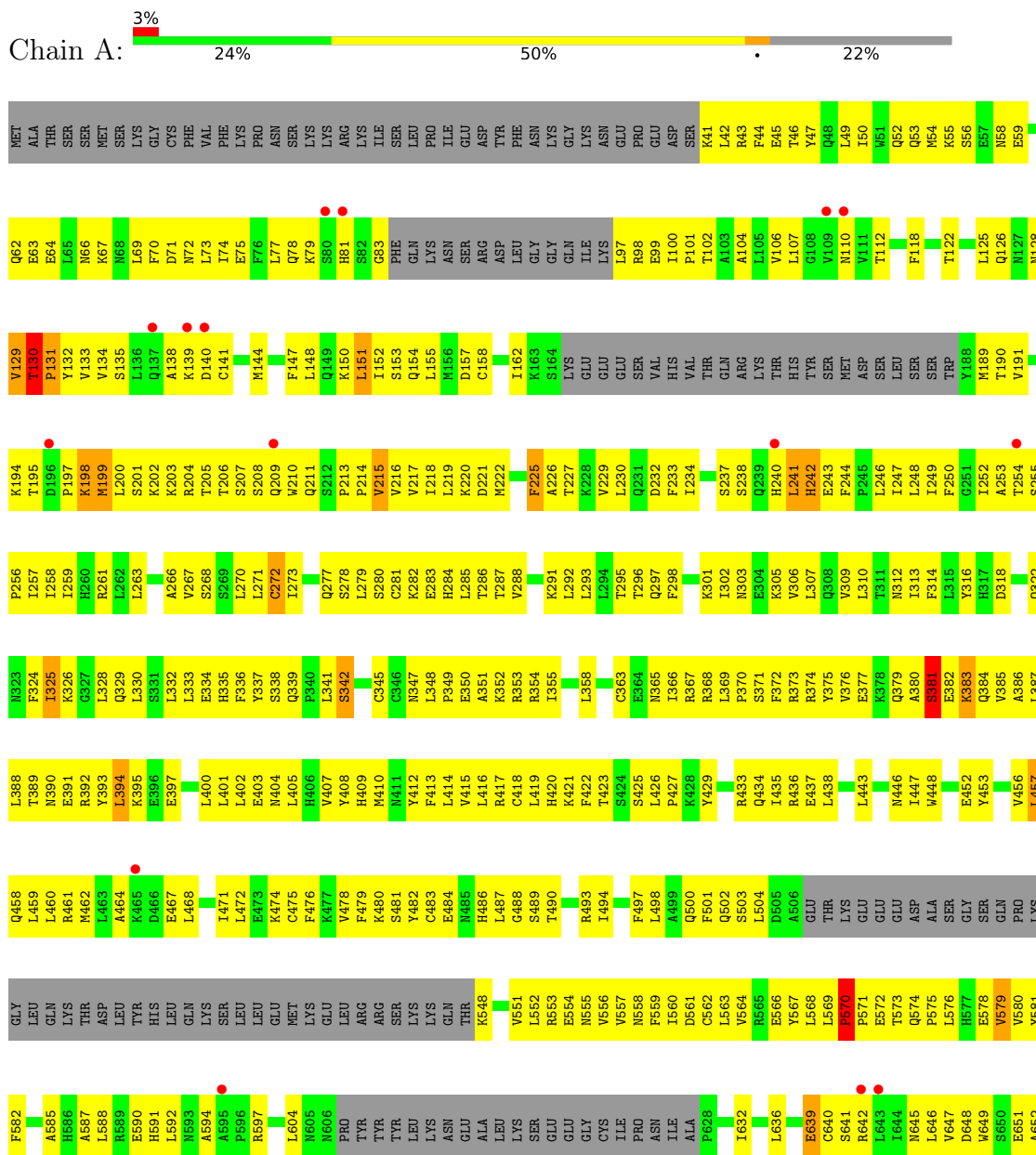
- Molecule 2 is a protein called Origin recognition complex subunit 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	E	183	1512	978	249	280	5	0	0	0
2	F	183	1512	978	249	280	5	0	0	0
2	G	183	1512	978	249	280	5	0	0	0
2	H	183	1512	978	249	280	5	0	0	0

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Origin recognition complex subunit 3



MET	K296	M363	Q438	GLN	ILE
LYS	L297	G364	F441	LEU	PRO
ARG	F298	F365	M442	ASP	VAL
ASP		F366	N443	ASN	ASP
LYS	W301	M301	L444	GLN	ASN
THR	M302	I369	M445	ASP	GLY
SER	I363	I372	M446	ASN	THR
ASP	Q304	Q372	E447	PRO	LEU
LEU	L305	L373	T448	SER	THR
VAL	H306	V377	T449	TYR	THR
GLU	L307	F380	T450	ILE	PHE
GLY	G368	K381	Y451	GLY	LEU
TYR	F309	E382	S452	LEU	LEU
GLY	M310	D383	P453	SER	GLY
PHE	I311	L388	Y454	PHE	PHE
GLU	V312	F389	T455	ASP	ASP
ALA		L390	E456	PHE	TYR
ALA		L391	E457	TYR	TYR
HIS	G317	I392	T458	GLN	GLN
SER	S318	H393	S459	ASN	GLN
SER	K319	N394	Y460	CYS	ARG
SER	R320	I395	N462	GLU	ARG
LYS	D321	D396	S463	ALA	GLU
VAL	L322	S397	L464	PHE	PHE
LEU	L323	Q398	V466	LEU	LEU
LEU	E324	M399	GLN	VAL	VAL
SER	R325	L400	SER	ASN	ASN
ASP	F326	R401	GLY	ASP	ASP
ARG	R327	S405	THR	LEU	THR
THR	T328	I408	LEU	SER	THR
LEU	R329	I409	LEU	LEU	LEU
GLN	M330	G410	PRO	ARG	ARG
LYS	L331	Q411	ALA	ALA	ALA
LEU	Q332	L412	SER	GLN	GLN
LYS	D333	S413	LEU	LEU	LEU
ARG	S334	S414	THR	THR	THR
ALA	I335	L415	GLU	GLU	GLU
LYS	H336	H416	PHE	PHE	PHE
LEU	V337	M417	ARG	ARG	ARG
LEU	V338	I418	SER	SER	SER
ASP	I339	Y419	THR	THR	THR
GLN	N340	L420	THR	THR	THR
LEU	G341	I421	PRO	PRO	PRO
THR	F342	A422	ASN	ASN	ASN
ASN	F343	S423	ALA	ALA	ALA
LEU	S347	F424	ARG	ARG	ARG
LEU	V348	D425	GLY	GLY	GLY
LYS	V351	H426	ILE	ILE	ILE
VAL	L352	L427	PHE	PHE	PHE
SER	M353	M428	ARG	ARG	ARG
PRO	M354	L431	LEU	LEU	LEU
SER	S354	M432	LEU	LEU	LEU
SER	I355	Y433	ILE	ILE	ILE
PHE	T356	L433	LYS	LYS	LYS
PHE	E357	L434	TYR	TYR	TYR
S284	F358	F433	LEU	LEU	LEU
L287	V359	H433	TYR	TYR	TYR
L291	L360		LEU	LEU	LEU
E295	H362		LEU	LEU	LEU

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	87.26Å 114.96Å 316.45Å 90.00° 90.72° 90.00°	Depositor
Resolution (Å)	20.07 – 6.00 20.07 – 6.00	Depositor EDS
% Data completeness (in resolution range)	97.8 (20.07-6.00) 94.2 (20.07-6.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.50 (at 5.93Å)	Xtrriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.318 , 0.368 0.336 , 0.369	Depositor DCC
R_{free} test set	753 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å ²)	287.3	Xtrriage
Anisotropy	0.393	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 190.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.24$	Xtrriage
Estimated twinning fraction	0.155 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	24144	wwPDB-VP
Average B, all atoms (Å ²)	303.0	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 28.14 % 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 1.9421e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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

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	0.45	0/4616	0.70	5/6244 (0.1%)
1	B	0.45	0/4616	0.69	4/6244 (0.1%)
1	C	1.12	9/4616 (0.2%)	0.75	7/6244 (0.1%)
1	D	0.48	0/4616	0.71	5/6244 (0.1%)
2	E	0.42	0/1548	0.70	2/2097 (0.1%)
2	F	0.39	0/1548	0.68	1/2097 (0.0%)
2	G	0.40	0/1548	0.69	2/2097 (0.1%)
2	H	0.41	0/1548	0.69	1/2097 (0.0%)
All	All	0.63	9/24656 (0.0%)	0.71	27/33364 (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	5
1	B	0	5
1	C	0	3
1	D	0	3
All	All	0	16

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	199	MET	CG-SD	38.31	2.80	1.81
1	C	244	PHE	CE1-CZ	28.73	1.92	1.37
1	C	244	PHE	CE2-CZ	27.23	1.89	1.37
1	C	244	PHE	CD2-CE2	25.67	1.90	1.39
1	C	244	PHE	CD1-CE1	23.71	1.86	1.39
1	C	244	PHE	CG-CD2	15.73	1.62	1.38
1	C	244	PHE	CG-CD1	14.13	1.59	1.38
1	C	199	MET	CB-CG	5.42	1.68	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	448	TRP	CB-CG	-5.25	1.40	1.50

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	199	MET	CG-SD-CE	16.48	126.57	100.20
1	C	151	LEU	CA-CB-CG	10.74	140.00	115.30
1	D	151	LEU	CA-CB-CG	10.43	139.29	115.30
1	B	151	LEU	CA-CB-CG	10.19	138.75	115.30
2	H	320	ARG	NE-CZ-NH2	-10.18	115.21	120.30
1	A	151	LEU	CA-CB-CG	10.17	138.70	115.30
2	F	320	ARG	NE-CZ-NH2	-10.04	115.28	120.30
2	E	320	ARG	NE-CZ-NH2	-10.00	115.30	120.30
2	G	320	ARG	NE-CZ-NH2	-9.87	115.36	120.30
1	C	199	MET	CB-CG-SD	6.70	132.51	112.40
1	C	198	LYS	CD-CE-NZ	6.60	126.89	111.70
1	A	241	LEU	CB-CG-CD1	-6.50	99.94	111.00
1	C	241	LEU	CB-CG-CD1	-6.44	100.05	111.00
1	B	241	LEU	CB-CG-CD1	-6.38	100.16	111.00
1	C	151	LEU	CB-CG-CD1	6.15	121.45	111.00
1	C	244	PHE	CB-CG-CD1	-6.02	116.59	120.80
1	D	241	LEU	CB-CG-CD1	-5.92	100.93	111.00
2	G	320	ARG	CG-CD-NE	-5.85	99.52	111.80
1	A	151	LEU	CB-CG-CD1	5.64	120.58	111.00
1	D	151	LEU	CB-CG-CD1	5.50	120.36	111.00
1	B	198	LYS	CD-CE-NZ	5.46	124.26	111.70
1	A	198	LYS	CD-CE-NZ	5.45	124.24	111.70
1	B	151	LEU	CB-CG-CD1	5.45	120.26	111.00
1	D	688	LEU	CB-CG-CD1	5.44	120.25	111.00
2	E	431	LEU	CA-CB-CG	5.41	127.74	115.30
1	D	198	LYS	CD-CE-NZ	5.34	123.98	111.70
1	A	215	VAL	CA-CB-CG2	-5.25	103.03	110.90

There are no chirality outliers.

All (16) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	130	THR	Peptide
1	A	140	ASP	Peptide
1	A	240	HIS	Peptide
1	A	242	HIS	Peptide
1	A	639	GLU	Peptide

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Mol	Chain	Res	Type	Group
1	B	140	ASP	Peptide
1	B	189	MET	Peptide
1	B	240	HIS	Peptide
1	B	242	HIS	Peptide
1	B	639	GLU	Peptide
1	C	140	ASP	Peptide
1	C	242	HIS	Peptide
1	C	639	GLU	Peptide
1	D	140	ASP	Peptide
1	D	242	HIS	Peptide
1	D	639	GLU	Peptide

5.2 Too-close contacts [\(i\)](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4524	0	4619	564	0
1	B	4524	0	4619	544	0
1	C	4524	0	4619	578	0
1	D	4524	0	4619	547	0
2	E	1512	0	1495	153	0
2	F	1512	0	1495	150	0
2	G	1512	0	1495	157	0
2	H	1512	0	1495	163	0
All	All	24144	0	24456	2749	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 57.

All (2749) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:244:PHE:CE1	1:C:244:PHE:CD1	1.86	1.61
1:C:244:PHE:CD2	1:C:244:PHE:CE2	1.90	1.59
1:C:244:PHE:CE1	1:C:244:PHE:CZ	1.91	1.57
1:C:244:PHE:CD2	1:C:246:LEU:HG	1.41	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:202:LYS:NZ	1:C:244:PHE:CE1	1.73	1.40
1:C:244:PHE:CD2	1:C:246:LEU:CG	2.12	1.30
1:C:202:LYS:NZ	1:C:244:PHE:CD1	2.07	1.22
1:C:381:SER:O	1:C:384:GLN:N	1.77	1.16
1:C:379:GLN:HG3	1:C:380:ALA:H	1.03	1.14
1:C:244:PHE:CD2	1:C:246:LEU:CD1	2.33	1.12
1:C:381:SER:O	1:C:383:LYS:N	1.84	1.11
1:D:379:GLN:HG3	1:D:380:ALA:H	1.02	1.11
1:D:381:SER:O	1:D:384:GLN:N	1.84	1.08
1:A:379:GLN:HG3	1:A:380:ALA:H	0.94	1.07
1:D:381:SER:O	1:D:383:LYS:N	1.89	1.03
1:C:244:PHE:CE1	1:C:246:LEU:HD21	1.93	1.03
1:A:394:LEU:O	1:A:397:GLU:N	1.93	1.02
1:C:379:GLN:HG3	1:C:380:ALA:N	1.76	1.01
1:D:379:GLN:HG3	1:D:380:ALA:N	1.76	0.99
1:B:394:LEU:O	1:B:397:GLU:N	1.98	0.96
1:A:379:GLN:HG3	1:A:380:ALA:N	1.77	0.96
1:D:394:LEU:O	1:D:397:GLU:N	1.99	0.96
1:C:394:LEU:O	1:C:397:GLU:N	1.99	0.95
1:A:379:GLN:CG	1:A:380:ALA:H	1.80	0.95
1:B:107:LEU:N	1:B:252:ILE:O	2.01	0.94
1:C:202:LYS:HZ1	1:C:244:PHE:HE1	1.08	0.94
1:D:645:ASN:O	1:D:649:TRP:N	2.03	0.92
1:A:645:ASN:O	1:A:649:TRP:N	2.01	0.92
2:H:317:GLY:N	2:H:450:THR:O	2.03	0.91
2:F:317:GLY:N	2:F:450:THR:O	2.04	0.91
1:C:645:ASN:O	1:C:649:TRP:N	2.03	0.91
2:G:347:SER:O	2:G:351:VAL:N	2.02	0.91
1:B:375:TYR:OH	1:B:397:GLU:OE1	1.88	0.90
1:B:645:ASN:O	1:B:649:TRP:N	2.04	0.90
2:G:317:GLY:N	2:G:450:THR:O	2.04	0.90
1:A:687:GLU:O	1:A:691:LEU:N	2.05	0.89
1:A:375:TYR:OH	1:A:397:GLU:OE1	1.90	0.89
1:A:200:LEU:O	1:A:204:ARG:N	2.06	0.89
1:D:201:SER:O	1:D:205:THR:OG1	1.90	0.88
1:B:43:ARG:NH2	1:B:339:GLN:O	2.07	0.88
1:D:695:LYS:HD2	1:D:707:LEU:HD11	1.54	0.87
2:E:317:GLY:N	2:E:450:THR:O	2.07	0.86
1:A:107:LEU:N	1:A:252:ILE:O	2.09	0.86
1:B:201:SER:O	1:B:205:THR:OG1	1.92	0.86
1:C:563:LEU:HA	1:C:567:TYR:CD2	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:77:LEU:O	1:D:81:HIS:ND1	2.08	0.86
1:B:200:LEU:O	1:B:204:ARG:N	2.09	0.86
2:E:347:SER:O	2:E:351:VAL:N	2.08	0.85
1:C:200:LEU:O	1:C:204:ARG:N	2.10	0.85
1:C:372:PHE:O	1:C:376:VAL:N	2.10	0.84
2:F:319:LYS:O	2:F:323:LEU:N	2.11	0.84
1:A:77:LEU:O	1:A:81:HIS:ND1	2.09	0.84
1:A:201:SER:O	1:A:205:THR:OG1	1.95	0.84
2:E:319:LYS:O	2:E:323:LEU:N	2.10	0.83
1:A:112:THR:OG1	1:A:322:GLN:OE1	1.96	0.83
2:H:347:SER:O	2:H:351:VAL:N	2.10	0.83
1:B:77:LEU:O	1:B:81:HIS:ND1	2.11	0.82
2:F:347:SER:O	2:F:351:VAL:N	2.11	0.82
1:C:562:CYS:HB3	1:C:567:TYR:CE2	2.14	0.82
1:C:563:LEU:HA	1:C:567:TYR:HD2	1.42	0.82
2:H:366:PHE:O	2:H:372:GLN:NE2	2.12	0.82
1:D:200:LEU:O	1:D:204:ARG:N	2.12	0.82
1:D:141:CYS:HB3	1:D:147:PHE:CZ	2.15	0.82
1:C:66:ASN:O	1:C:69:LEU:N	2.12	0.81
2:G:319:LYS:O	2:G:323:LEU:N	2.12	0.81
1:C:587:ALA:O	1:C:591:HIS:ND1	2.13	0.81
1:D:418:CYS:HG	1:D:422:PHE:HE2	1.28	0.81
2:G:320:ARG:NH1	2:G:457:GLU:OE1	2.13	0.81
2:H:319:LYS:O	2:H:323:LEU:N	2.14	0.81
1:A:691:LEU:O	2:G:427:LEU:N	2.12	0.81
1:A:384:GLN:HG2	1:A:388:LEU:HD11	1.63	0.81
1:C:77:LEU:O	1:C:81:HIS:ND1	2.14	0.81
1:A:141:CYS:HB3	1:A:147:PHE:CZ	2.17	0.80
2:F:366:PHE:O	2:F:372:GLN:NE2	2.14	0.80
2:E:318:SER:O	2:E:452:SER:OG	2.00	0.80
2:H:320:ARG:NH1	2:H:457:GLU:OE1	2.15	0.80
1:A:43:ARG:NH2	1:A:339:GLN:O	2.15	0.80
2:G:391:LEU:HD22	2:G:421:ILE:HB	1.64	0.80
1:D:683:ARG:NH1	2:F:458:THR:HA	1.97	0.79
1:C:43:ARG:NH2	1:C:339:GLN:O	2.14	0.79
1:C:201:SER:O	1:C:205:THR:OG1	1.99	0.79
1:A:66:ASN:O	1:A:69:LEU:N	2.15	0.79
1:C:202:LYS:CE	1:C:244:PHE:CE1	2.66	0.79
1:D:107:LEU:N	1:D:252:ILE:O	2.16	0.78
1:D:385:VAL:O	1:D:389:THR:N	2.16	0.78
2:E:391:LEU:HD22	2:E:421:ILE:HB	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:203:LYS:O	1:A:207:SER:N	2.16	0.78
1:C:375:TYR:CE2	1:C:401:LEU:HD21	2.18	0.78
1:A:591:HIS:HA	2:G:445:TRP:O	1.84	0.77
1:A:202:LYS:HD2	1:A:244:PHE:CE1	2.19	0.77
2:G:366:PHE:O	2:G:372:GLN:NE2	2.16	0.77
1:B:199:MET:HA	1:B:244:PHE:CZ	2.19	0.77
2:H:328:THR:O	2:H:332:GLN:NE2	2.17	0.77
1:A:385:VAL:O	1:A:389:THR:N	2.18	0.77
2:E:320:ARG:NH1	2:E:457:GLU:OE1	2.18	0.77
1:A:202:LYS:HD2	1:A:244:PHE:HE1	1.49	0.76
1:C:141:CYS:HB3	1:C:147:PHE:CZ	2.20	0.76
1:C:433:ARG:N	1:C:437:GLU:OE1	2.17	0.76
1:B:302:ILE:CG2	1:B:306:VAL:HG22	2.16	0.76
1:B:687:GLU:O	1:B:691:LEU:N	2.18	0.76
1:C:415:VAL:HG12	1:C:567:TYR:CE1	2.20	0.76
1:C:102:THR:OG1	1:C:273:ILE:HG12	1.85	0.75
1:C:381:SER:O	1:C:383:LYS:CA	2.34	0.75
1:B:379:GLN:HE22	1:B:387:LEU:CD1	2.00	0.75
1:C:107:LEU:N	1:C:252:ILE:O	2.18	0.75
1:A:302:ILE:CG2	1:A:306:VAL:HG22	2.17	0.75
1:B:141:CYS:HB3	1:B:147:PHE:CE2	2.22	0.75
2:H:391:LEU:HD22	2:H:421:ILE:HB	1.68	0.75
1:B:382:GLU:O	1:B:384:GLN:N	2.17	0.75
1:C:563:LEU:CA	1:C:567:TYR:HD2	1.99	0.75
1:D:43:ARG:NH2	1:D:339:GLN:O	2.20	0.75
2:E:366:PHE:O	2:E:372:GLN:NE2	2.18	0.75
1:A:100:ILE:HG13	1:A:241:LEU:HD11	1.69	0.75
1:B:112:THR:OG1	1:B:322:GLN:OE1	2.03	0.74
1:D:687:GLU:O	1:D:691:LEU:N	2.19	0.74
1:B:347:ASN:OD1	1:D:350:GLU:N	2.20	0.74
1:A:382:GLU:O	1:A:383:LYS:C	2.25	0.74
1:B:202:LYS:HD2	1:B:244:PHE:CE1	2.22	0.74
1:D:66:ASN:O	1:D:69:LEU:N	2.19	0.74
2:F:391:LEU:HD22	2:F:421:ILE:HB	1.67	0.74
1:A:382:GLU:O	1:A:385:VAL:N	2.19	0.74
1:B:587:ALA:O	1:B:591:HIS:ND1	2.21	0.73
1:D:556:VAL:HA	1:D:559:PHE:HB2	1.70	0.73
1:A:199:MET:HA	1:A:244:PHE:CZ	2.23	0.73
1:B:132:TYR:O	1:B:215:VAL:HG22	1.87	0.73
1:B:133:VAL:N	1:B:158:CYS:SG	2.62	0.73
1:B:385:VAL:O	1:B:389:THR:N	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:452:GLU:OE1	1:B:452:GLU:N	2.21	0.73
1:B:66:ASN:O	1:B:69:LEU:N	2.20	0.73
1:D:326:LYS:O	1:D:330:LEU:HG	1.87	0.73
1:D:555:ASN:O	1:D:559:PHE:N	2.21	0.73
1:B:372:PHE:O	1:B:376:VAL:N	2.21	0.73
2:G:353:ASN:O	2:G:357:GLU:N	2.22	0.73
1:A:433:ARG:N	1:A:437:GLU:OE1	2.20	0.73
2:F:353:ASN:O	2:F:357:GLU:N	2.20	0.73
1:A:237:SER:O	1:A:241:LEU:HG	1.89	0.72
1:A:452:GLU:OE1	1:A:452:GLU:N	2.22	0.72
1:A:382:GLU:O	1:A:384:GLN:N	2.22	0.72
1:C:648:ASP:O	1:C:652:ALA:HB2	1.89	0.72
1:D:372:PHE:O	1:D:376:VAL:N	2.22	0.72
1:C:687:GLU:O	1:C:691:LEU:N	2.22	0.72
1:B:100:ILE:HG13	1:B:241:LEU:HD11	1.71	0.72
1:D:189:MET:O	1:D:191:VAL:N	2.23	0.72
1:D:569:LEU:HB3	1:D:571:PRO:HD2	1.71	0.72
1:A:372:PHE:O	1:A:376:VAL:N	2.23	0.71
1:D:102:THR:HG1	1:D:250:PHE:HE2	1.38	0.71
1:D:302:ILE:CG2	1:D:306:VAL:HG22	2.19	0.71
2:G:318:SER:O	2:G:452:SER:OG	2.08	0.71
1:C:151:LEU:HD12	1:C:198:LYS:NZ	2.04	0.71
1:D:112:THR:OG1	1:D:322:GLN:OE1	2.08	0.71
2:E:353:ASN:O	2:E:357:GLU:N	2.22	0.71
1:C:420:HIS:CD2	1:C:435:ILE:HA	2.25	0.71
2:H:353:ASN:O	2:H:357:GLU:N	2.21	0.71
1:C:244:PHE:CE1	1:C:246:LEU:CD2	2.72	0.71
1:C:385:VAL:O	1:C:389:THR:N	2.22	0.71
1:B:141:CYS:HB3	1:B:147:PHE:CZ	2.26	0.71
1:D:476:PHE:O	1:D:480:LYS:HB2	1.91	0.71
2:E:453:PRO:HA	2:E:454:TYR:HB2	1.73	0.71
1:D:587:ALA:O	1:D:591:HIS:ND1	2.23	0.71
1:A:556:VAL:HA	1:A:559:PHE:HB2	1.73	0.71
1:C:100:ILE:HG13	1:C:241:LEU:HD11	1.72	0.71
1:C:381:SER:C	1:C:383:LYS:N	2.40	0.71
1:D:203:LYS:O	1:D:207:SER:N	2.24	0.71
1:D:433:ARG:N	1:D:437:GLU:OE1	2.21	0.71
2:G:356:THR:HA	2:G:360:LEU:HB2	1.73	0.71
1:A:405:LEU:N	1:A:574:GLN:OE1	2.24	0.70
1:B:590:GLU:O	2:E:445:TRP:HB2	1.91	0.70
1:B:482:TYR:O	1:B:486:HIS:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:100:ILE:HG13	1:D:241:LEU:HD11	1.72	0.70
1:D:375:TYR:CE2	1:D:401:LEU:HD21	2.26	0.70
1:A:63:GLU:O	1:A:67:LYS:HG3	1.92	0.70
1:A:556:VAL:HA	1:A:559:PHE:HD2	1.55	0.70
1:C:416:LEU:O	1:C:420:HIS:ND1	2.24	0.70
2:F:453:PRO:HA	2:F:454:TYR:HB2	1.73	0.70
1:B:683:ARG:NH1	2:E:458:THR:HA	2.06	0.70
1:C:302:ILE:CG2	1:C:306:VAL:HG22	2.21	0.70
2:H:453:PRO:HA	2:H:454:TYR:HB2	1.72	0.70
1:B:556:VAL:HA	1:B:559:PHE:HD2	1.56	0.70
1:D:648:ASP:O	1:D:652:ALA:HB2	1.91	0.70
1:A:202:LYS:HE2	1:A:213:PRO:HG2	1.73	0.70
1:D:420:HIS:CD2	1:D:435:ILE:HA	2.27	0.70
1:C:476:PHE:O	1:C:480:LYS:HB2	1.92	0.70
1:D:562:CYS:O	1:D:566:GLU:N	2.24	0.70
1:A:291:LYS:O	1:A:295:THR:HG23	1.92	0.69
1:C:556:VAL:HA	1:C:559:PHE:HB2	1.72	0.69
1:D:132:TYR:O	1:D:215:VAL:HG22	1.91	0.69
1:D:291:LYS:O	1:D:295:THR:HG23	1.92	0.69
1:B:556:VAL:HA	1:B:559:PHE:HB2	1.74	0.69
1:C:590:GLU:O	2:H:445:TRP:HB2	1.92	0.69
1:A:335:HIS:NE2	1:A:579:VAL:O	2.25	0.69
1:C:237:SER:O	1:C:241:LEU:HG	1.91	0.69
1:D:151:LEU:HD12	1:D:198:LYS:NZ	2.08	0.69
1:D:416:LEU:O	1:D:420:HIS:ND1	2.24	0.69
1:A:52:GLN:O	1:A:56:SER:OG	2.06	0.69
1:D:202:LYS:HB2	1:D:244:PHE:HE1	1.56	0.69
1:A:125:LEU:O	1:A:131:PRO:HD2	1.93	0.69
1:A:555:ASN:O	1:A:559:PHE:N	2.26	0.69
2:E:298:PHE:HB3	2:E:330:MET:SD	2.32	0.69
1:B:203:LYS:O	1:B:207:SER:N	2.25	0.69
1:B:237:SER:O	1:B:241:LEU:HG	1.92	0.69
1:C:202:LYS:NZ	1:C:244:PHE:HE1	1.69	0.69
1:D:688:LEU:HG	1:D:693:PHE:HB2	1.74	0.69
1:D:689:GLU:HG3	1:D:694:ILE:HD11	1.74	0.69
2:E:352:LEU:HD23	2:E:372:GLN:OE1	1.93	0.69
2:F:320:ARG:NH1	2:F:457:GLU:OE1	2.25	0.69
2:F:356:THR:HA	2:F:360:LEU:HB2	1.73	0.69
1:A:689:GLU:HG3	1:A:694:ILE:HD11	1.75	0.69
1:C:199:MET:SD	1:C:199:MET:CG	2.80	0.68
1:C:381:SER:O	1:C:383:LYS:C	2.32	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:237:SER:O	1:D:241:LEU:HG	1.92	0.68
2:F:318:SER:O	2:F:452:SER:OG	2.11	0.68
1:A:130:THR:OG1	1:A:131:PRO:HD3	1.92	0.68
1:C:147:PHE:HB2	1:C:233:PHE:CZ	2.28	0.68
1:C:209:GLN:N	1:C:210:TRP:HA	2.08	0.68
1:C:405:LEU:N	1:C:574:GLN:OE1	2.26	0.68
2:G:352:LEU:HD23	2:G:372:GLN:OE1	1.92	0.68
1:B:548:LYS:O	1:B:552:LEU:N	2.24	0.68
1:B:405:LEU:N	1:B:574:GLN:OE1	2.27	0.68
1:C:63:GLU:O	1:C:67:LYS:HG3	1.93	0.68
2:G:398:GLN:HB3	2:G:399:MET:HA	1.76	0.68
1:C:291:LYS:O	1:C:295:THR:HG23	1.94	0.68
1:D:457:LEU:HG	1:D:559:PHE:CZ	2.29	0.68
2:G:453:PRO:HA	2:G:454:TYR:HB2	1.75	0.68
1:C:381:SER:O	1:C:382:GLU:C	2.32	0.68
1:B:420:HIS:CD2	1:B:435:ILE:HA	2.29	0.68
1:A:132:TYR:O	1:A:215:VAL:HG22	1.93	0.67
1:B:476:PHE:O	1:B:480:LYS:HB2	1.93	0.67
1:C:562:CYS:O	1:C:566:GLU:N	2.26	0.67
1:A:45:GLU:O	1:A:49:LEU:HG	1.94	0.67
1:C:482:TYR:O	1:C:486:HIS:N	2.28	0.67
1:D:347:ASN:O	1:D:351:ALA:N	2.25	0.67
1:A:415:VAL:HG12	1:A:567:TYR:CZ	2.29	0.67
1:B:151:LEU:HD12	1:B:198:LYS:NZ	2.08	0.67
1:B:453:TYR:OH	1:B:563:LEU:HD13	1.94	0.67
1:C:335:HIS:NE2	1:C:579:VAL:O	2.26	0.67
2:H:398:GLN:HB3	2:H:399:MET:HA	1.77	0.67
1:B:433:ARG:N	1:B:437:GLU:OE1	2.22	0.67
1:B:416:LEU:O	1:B:420:HIS:ND1	2.28	0.67
1:B:648:ASP:O	1:B:652:ALA:HB2	1.93	0.67
2:E:337:VAL:HG22	2:E:359:VAL:HG21	1.76	0.67
2:H:411:GLN:O	2:H:415:LEU:N	2.25	0.67
1:C:125:LEU:O	1:C:131:PRO:CD	2.43	0.67
1:C:347:ASN:O	1:C:351:ALA:N	2.22	0.67
1:A:648:ASP:O	1:A:652:ALA:HB2	1.94	0.67
1:B:199:MET:HE2	1:B:244:PHE:HE2	1.59	0.67
1:C:47:TYR:OH	1:C:329:GLN:OE1	2.08	0.67
1:C:457:LEU:HG	1:C:559:PHE:CZ	2.29	0.67
1:A:151:LEU:HD12	1:A:198:LYS:NZ	2.09	0.67
1:D:63:GLU:O	1:D:67:LYS:HG3	1.93	0.67
1:D:475:CYS:O	1:D:479:PHE:HB2	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:428:ASN:O	2:H:431:LEU:HB3	1.95	0.67
1:D:199:MET:HA	1:D:244:PHE:CZ	2.31	0.66
2:E:356:THR:HA	2:E:360:LEU:HB2	1.77	0.66
2:H:352:LEU:HD23	2:H:372:GLN:OE1	1.94	0.66
1:B:63:GLU:O	1:B:67:LYS:HG3	1.94	0.66
1:A:102:THR:OG1	1:A:273:ILE:HG12	1.96	0.66
1:A:151:LEU:HG	1:A:198:LYS:HD2	1.77	0.66
1:A:384:GLN:HG2	1:A:388:LEU:CD1	2.26	0.66
1:B:199:MET:HA	1:B:244:PHE:CE2	2.30	0.66
2:H:356:THR:HA	2:H:360:LEU:HB2	1.77	0.66
1:A:199:MET:HA	1:A:244:PHE:CE2	2.30	0.66
1:B:689:GLU:HG3	1:B:694:ILE:HD11	1.78	0.66
1:D:381:SER:C	1:D:383:LYS:N	2.48	0.66
2:E:398:GLN:HB3	2:E:399:MET:HA	1.77	0.66
1:C:429:TYR:HB3	1:C:433:ARG:HG2	1.78	0.66
1:C:569:LEU:HB3	1:C:571:PRO:HD2	1.77	0.66
1:B:688:LEU:HG	1:B:693:PHE:HB2	1.77	0.66
1:C:151:LEU:HG	1:C:198:LYS:HD2	1.76	0.66
1:C:415:VAL:HG12	1:C:567:TYR:CZ	2.30	0.66
1:C:689:GLU:HG3	1:C:694:ILE:HD11	1.77	0.66
1:A:475:CYS:O	1:A:479:PHE:HB2	1.96	0.66
1:D:415:VAL:HG12	1:D:567:TYR:CZ	2.30	0.66
1:D:147:PHE:HB2	1:D:233:PHE:CZ	2.31	0.65
1:B:151:LEU:HG	1:B:198:LYS:HD2	1.77	0.65
1:B:457:LEU:HG	1:B:559:PHE:CZ	2.31	0.65
1:C:683:ARG:HD2	2:H:458:THR:OG1	1.95	0.65
1:B:475:CYS:O	1:B:479:PHE:HB2	1.96	0.65
1:B:570:PRO:O	1:B:573:THR:OG1	2.10	0.65
1:D:379:GLN:CG	1:D:380:ALA:H	1.86	0.65
1:D:381:SER:O	1:D:383:LYS:CA	2.45	0.65
2:H:318:SER:O	2:H:452:SER:OG	2.14	0.65
1:B:691:LEU:O	2:E:427:LEU:N	2.28	0.65
1:C:203:LYS:O	1:C:207:SER:N	2.30	0.65
2:F:352:LEU:HD23	2:F:372:GLN:OE1	1.96	0.65
1:B:382:GLU:C	1:B:384:GLN:H	1.99	0.65
1:B:555:ASN:O	1:B:559:PHE:N	2.30	0.65
1:C:151:LEU:HD12	1:C:198:LYS:HZ2	1.60	0.65
1:D:199:MET:HA	1:D:244:PHE:CE2	2.31	0.65
2:G:328:THR:O	2:G:332:GLN:NE2	2.25	0.65
1:A:397:GLU:HG2	1:A:400:LEU:HD12	1.78	0.65
1:B:415:VAL:HG12	1:B:567:TYR:CZ	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:500:GLN:O	1:B:503:SER:OG	2.12	0.65
1:D:151:LEU:HG	1:D:198:LYS:HD2	1.79	0.65
2:E:328:THR:O	2:E:332:GLN:NE2	2.22	0.65
2:E:411:GLN:O	2:E:415:LEU:N	2.28	0.65
1:C:189:MET:O	1:C:191:VAL:N	2.30	0.65
1:B:291:LYS:O	1:B:295:THR:HG23	1.96	0.65
1:D:556:VAL:HA	1:D:559:PHE:HD2	1.61	0.65
2:F:398:GLN:HB3	2:F:399:MET:HA	1.79	0.65
2:H:454:TYR:O	2:H:458:THR:OG1	2.14	0.65
1:B:97:LEU:HA	1:B:242:HIS:CD2	2.32	0.64
1:D:330:LEU:HD22	2:F:309:PHE:CE2	2.32	0.64
1:B:379:GLN:HE22	1:B:387:LEU:HD12	1.62	0.64
1:B:562:CYS:O	1:B:566:GLU:N	2.29	0.64
1:B:684:ALA:O	1:B:688:LEU:HD13	1.97	0.64
1:D:556:VAL:HA	1:D:559:PHE:CD2	2.33	0.64
1:A:476:PHE:O	1:A:480:LYS:HB2	1.97	0.64
1:C:325:ILE:O	1:C:328:LEU:N	2.29	0.64
1:D:296:THR:HG22	1:D:413:PHE:CD2	2.33	0.64
2:G:311:ILE:HG13	2:G:421:ILE:HG12	1.78	0.64
2:G:377:VAL:O	2:G:381:LYS:N	2.30	0.64
1:A:47:TYR:OH	1:A:329:GLN:OE1	2.13	0.64
1:C:555:ASN:O	1:C:559:PHE:N	2.31	0.64
2:H:304:GLN:OE1	2:H:446:TYR:OH	2.14	0.64
1:A:684:ALA:O	1:A:688:LEU:HD13	1.97	0.64
1:C:151:LEU:O	1:C:198:LYS:HE3	1.97	0.64
1:D:102:THR:OG1	1:D:273:ILE:HG12	1.98	0.64
1:A:102:THR:HG1	1:A:250:PHE:HE2	1.44	0.64
1:A:489:SER:HA	1:A:490:THR:HB	1.80	0.64
1:D:222:MET:HG3	1:D:250:PHE:CD1	2.33	0.64
1:A:397:GLU:O	1:A:401:LEU:HG	1.98	0.64
1:A:448:TRP:CZ2	1:A:559:PHE:HB3	2.33	0.64
1:A:457:LEU:HG	1:A:559:PHE:CZ	2.32	0.64
1:A:690:LEU:O	2:G:426:HIS:HA	1.98	0.64
1:B:222:MET:HG3	1:B:250:PHE:CD1	2.33	0.64
1:A:562:CYS:O	1:A:566:GLU:N	2.30	0.63
1:A:488:GLY:O	1:A:490:THR:OG1	2.16	0.63
1:A:694:ILE:HD13	1:A:704:VAL:HG13	1.81	0.63
2:H:373:LEU:HD22	2:H:412:LEU:HD21	1.81	0.63
1:B:50:ILE:O	1:B:54:MET:HG2	1.98	0.63
1:C:648:ASP:O	1:C:652:ALA:CB	2.46	0.63
1:D:379:GLN:CG	1:D:380:ALA:N	2.52	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:394:ASN:ND2	2:F:425:ASP:OD2	2.26	0.63
1:A:597:ARG:NH2	1:A:708:THR:OG1	2.31	0.63
1:B:216:VAL:HA	1:B:247:ILE:O	1.99	0.63
1:D:335:HIS:NE2	1:D:579:VAL:O	2.31	0.63
1:A:234:ILE:O	1:A:238:SER:CB	2.46	0.63
1:B:125:LEU:O	1:B:131:PRO:CD	2.46	0.63
1:B:202:LYS:HE2	1:B:213:PRO:HG2	1.81	0.63
1:C:112:THR:OG1	1:C:322:GLN:OE1	2.17	0.63
1:C:147:PHE:CD2	1:C:233:PHE:CE2	2.86	0.63
1:D:381:SER:O	1:D:382:GLU:C	2.34	0.63
1:C:152:ILE:HG23	1:C:198:LYS:N	2.14	0.63
2:G:298:PHE:HB3	2:G:330:MET:SD	2.39	0.63
1:B:488:GLY:O	1:B:490:THR:OG1	2.17	0.63
1:C:556:VAL:HA	1:C:559:PHE:HD2	1.64	0.63
1:B:52:GLN:O	1:B:56:SER:OG	2.10	0.63
1:B:147:PHE:HB2	1:B:233:PHE:CZ	2.34	0.63
1:B:335:HIS:NE2	1:B:579:VAL:O	2.32	0.63
1:C:563:LEU:N	1:C:567:TYR:HD2	1.95	0.63
1:D:209:GLN:N	1:D:210:TRP:HA	2.12	0.63
1:A:353:ARG:NH2	1:C:297:GLN:O	2.31	0.62
1:D:684:ALA:O	1:D:688:LEU:HD13	1.98	0.62
1:A:147:PHE:HB2	1:A:233:PHE:CZ	2.34	0.62
1:B:234:ILE:O	1:B:238:SER:CB	2.47	0.62
1:A:418:CYS:HA	1:A:479:PHE:CZ	2.34	0.62
1:C:216:VAL:HA	1:C:247:ILE:O	1.99	0.62
1:D:97:LEU:HA	1:D:242:HIS:CD2	2.34	0.62
1:B:202:LYS:HD2	1:B:244:PHE:HE1	1.62	0.62
1:B:397:GLU:HG2	1:B:400:LEU:HD12	1.82	0.62
1:C:688:LEU:HG	1:C:693:PHE:HB2	1.80	0.62
1:D:683:ARG:HH12	2:F:461:GLU:HB2	1.63	0.62
2:H:320:ARG:HH22	2:H:457:GLU:N	1.97	0.62
1:A:556:VAL:HA	1:A:559:PHE:CD2	2.34	0.62
1:B:330:LEU:HD13	1:B:592:LEU:HD21	1.81	0.62
1:C:155:LEU:HD11	1:C:215:VAL:HG21	1.80	0.62
1:C:475:CYS:O	1:C:479:PHE:HB3	1.98	0.62
1:D:147:PHE:CD2	1:D:233:PHE:CE2	2.88	0.62
2:G:298:PHE:HB3	2:G:330:MET:HG3	1.80	0.62
1:B:46:THR:O	1:B:50:ILE:HG13	1.99	0.62
1:C:563:LEU:CA	1:C:567:TYR:CD2	2.78	0.62
1:D:151:LEU:O	1:D:198:LYS:HE3	1.99	0.62
2:G:373:LEU:HD22	2:G:412:LEU:HD21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:50:ILE:O	1:D:54:MET:HG2	1.99	0.62
1:A:569:LEU:HB3	1:A:571:PRO:HD2	1.81	0.62
1:B:335:HIS:O	1:B:338:SER:N	2.26	0.62
1:B:209:GLN:N	1:B:210:TRP:HA	2.15	0.62
1:D:397:GLU:O	1:D:401:LEU:HG	1.99	0.62
1:A:392:ARG:HD3	1:C:484:GLU:HB3	1.82	0.62
1:A:548:LYS:O	1:A:552:LEU:N	2.29	0.62
1:B:99:GLU:N	1:B:241:LEU:HD12	2.15	0.62
1:C:452:GLU:OE1	1:C:452:GLU:N	2.28	0.62
1:C:152:ILE:HG21	1:C:197:PRO:CG	2.30	0.61
1:D:476:PHE:CE2	1:D:501:PHE:CD1	2.88	0.61
1:A:151:LEU:HD12	1:A:198:LYS:HZ2	1.63	0.61
1:C:563:LEU:HG	1:C:567:TYR:CE2	2.35	0.61
1:D:199:MET:CE	1:D:203:LYS:HE3	2.30	0.61
1:D:482:TYR:O	1:D:486:HIS:N	2.33	0.61
1:C:130:THR:OG1	1:C:131:PRO:HD3	2.01	0.61
1:C:132:TYR:O	1:C:215:VAL:HG22	2.00	0.61
1:C:684:ALA:O	1:C:688:LEU:HD13	1.99	0.61
1:D:324:PHE:O	1:D:328:LEU:HG	2.01	0.61
2:H:311:ILE:HG13	2:H:421:ILE:HG12	1.81	0.61
1:A:476:PHE:CE2	1:A:501:PHE:CD1	2.87	0.61
1:C:448:TRP:HZ2	1:C:559:PHE:HB3	1.65	0.61
1:C:480:LYS:NZ	1:C:502:GLN:HG3	2.15	0.61
1:D:314:PHE:HA	1:D:318:ASP:O	2.01	0.61
1:A:475:CYS:O	1:A:479:PHE:CD2	2.53	0.61
1:B:556:VAL:HA	1:B:559:PHE:CD2	2.36	0.61
1:D:429:TYR:HB3	1:D:433:ARG:HG2	1.82	0.61
1:A:272:CYS:O	1:A:272:CYS:SG	2.58	0.61
1:C:591:HIS:HA	2:H:445:TRP:O	1.99	0.61
1:D:152:ILE:HG21	1:D:197:PRO:CB	2.31	0.61
1:D:234:ILE:O	1:D:238:SER:CB	2.48	0.61
1:D:489:SER:HA	1:D:490:THR:HB	1.82	0.61
2:H:340:ASN:HB3	2:H:342:PHE:CE2	2.36	0.61
1:A:64:GLU:O	1:A:67:LYS:N	2.33	0.61
1:A:688:LEU:HG	1:A:693:PHE:HB2	1.82	0.61
1:B:453:TYR:OH	1:B:563:LEU:CD1	2.49	0.61
1:D:199:MET:HG2	1:D:244:PHE:HE2	1.65	0.61
1:A:420:HIS:CD2	1:A:435:ILE:HA	2.35	0.61
1:C:152:ILE:HG12	1:C:198:LYS:H	1.65	0.61
1:C:296:THR:HG22	1:C:413:PHE:CD2	2.35	0.61
1:D:489:SER:HA	1:D:490:THR:CB	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:335:HIS:O	1:A:338:SER:N	2.27	0.61
1:B:155:LEU:CD1	1:B:198:LYS:HE2	2.30	0.61
1:B:353:ARG:NH2	1:D:297:GLN:O	2.34	0.61
1:B:453:TYR:OH	1:B:559:PHE:CE1	2.52	0.61
1:C:234:ILE:O	1:C:238:SER:CB	2.48	0.61
1:D:151:LEU:HD12	1:D:198:LYS:HZ2	1.66	0.61
2:E:318:SER:N	2:E:452:SER:O	2.28	0.61
2:E:428:ASN:O	2:E:431:LEU:HB3	1.99	0.61
2:F:311:ILE:HG13	2:F:421:ILE:HG12	1.83	0.61
2:H:287:LEU:HD22	2:H:451:TYR:HB2	1.82	0.61
1:A:104:ALA:HA	1:A:250:PHE:HD2	1.66	0.61
1:B:648:ASP:O	1:B:652:ALA:CB	2.48	0.61
1:C:46:THR:O	1:C:50:ILE:HG13	2.01	0.61
1:D:152:ILE:HG21	1:D:197:PRO:CG	2.31	0.61
1:D:590:GLU:O	2:F:445:TRP:HB2	2.00	0.61
1:A:147:PHE:CD2	1:A:233:PHE:CE2	2.89	0.60
1:B:409:HIS:HA	1:B:412:TYR:HD2	1.66	0.60
1:B:448:TRP:CZ2	1:B:559:PHE:HB3	2.36	0.60
1:C:330:LEU:O	1:C:334:GLU:CB	2.49	0.60
1:C:397:GLU:HG2	1:C:400:LEU:HD12	1.82	0.60
1:C:489:SER:HA	1:C:490:THR:CB	2.31	0.60
2:H:318:SER:N	2:H:452:SER:O	2.29	0.60
1:B:189:MET:O	1:B:191:VAL:N	2.34	0.60
1:B:429:TYR:HB3	1:B:433:ARG:HG2	1.83	0.60
1:A:155:LEU:CD1	1:A:215:VAL:HG21	2.31	0.60
1:A:297:GLN:HA	1:C:353:ARG:CZ	2.31	0.60
1:B:147:PHE:CD2	1:B:233:PHE:CE2	2.89	0.60
1:C:324:PHE:O	1:C:328:LEU:HG	2.02	0.60
1:A:297:GLN:O	1:C:353:ARG:NH1	2.34	0.60
1:B:397:GLU:O	1:B:401:LEU:HG	2.01	0.60
1:B:418:CYS:HA	1:B:479:PHE:CZ	2.36	0.60
1:D:330:LEU:HD22	2:F:309:PHE:HE2	1.66	0.60
1:B:47:TYR:OH	1:B:329:GLN:OE1	2.16	0.60
1:B:569:LEU:HB3	1:B:571:PRO:HD2	1.84	0.60
1:D:47:TYR:OH	1:D:329:GLN:OE1	2.13	0.60
2:F:340:ASN:HB3	2:F:342:PHE:CE2	2.37	0.60
1:A:420:HIS:NE2	1:A:438:LEU:HB2	2.16	0.60
1:B:43:ARG:NH2	1:B:342:SER:OG	2.35	0.60
1:C:226:ALA:O	1:C:230:LEU:N	2.34	0.60
1:D:695:LYS:HD2	1:D:707:LEU:CD1	2.29	0.60
1:D:453:TYR:OH	1:D:563:LEU:HD13	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:THR:HA	1:A:133:VAL:CG2	2.32	0.60
1:B:64:GLU:O	1:B:67:LYS:N	2.35	0.60
1:D:202:LYS:HD2	1:D:244:PHE:CE1	2.36	0.60
1:D:310:LEU:O	1:D:313:ILE:HG22	2.01	0.60
1:D:480:LYS:NZ	1:D:502:GLN:HG3	2.17	0.60
2:E:320:ARG:HH22	2:E:457:GLU:N	1.99	0.60
1:A:155:LEU:CD1	1:A:198:LYS:HE2	2.31	0.60
1:C:152:ILE:HG21	1:C:197:PRO:CD	2.31	0.60
1:C:229:VAL:HG13	1:C:233:PHE:HE2	1.67	0.60
1:D:125:LEU:O	1:D:131:PRO:HD2	2.01	0.60
2:G:287:LEU:HD22	2:G:451:TYR:HB2	1.82	0.60
2:G:411:GLN:O	2:G:415:LEU:N	2.32	0.60
2:H:390:LEU:HD11	2:H:420:LEU:HD13	1.83	0.60
1:A:97:LEU:HA	1:A:242:HIS:CD2	2.36	0.60
1:A:155:LEU:HD11	1:A:215:VAL:HG21	1.83	0.60
1:A:500:GLN:O	1:A:503:SER:OG	2.13	0.60
1:D:693:PHE:CZ	2:F:427:LEU:HD21	2.37	0.60
1:C:50:ILE:O	1:C:54:MET:HG2	2.01	0.59
1:C:219:LEU:HB2	1:C:222:MET:HG2	1.84	0.59
2:G:337:VAL:HG22	2:G:359:VAL:HG21	1.83	0.59
1:A:189:MET:O	1:A:191:VAL:N	2.35	0.59
1:A:209:GLN:N	1:A:210:TRP:HA	2.17	0.59
1:B:683:ARG:HH12	2:E:461:GLU:HB2	1.66	0.59
1:D:99:GLU:N	1:D:241:LEU:HD12	2.17	0.59
1:D:695:LYS:HG3	1:D:696:PRO:HD2	1.84	0.59
1:B:480:LYS:O	1:B:484:GLU:CG	2.50	0.59
1:B:484:GLU:HG2	1:D:392:ARG:HD3	1.82	0.59
1:D:421:LYS:HB2	1:D:479:PHE:CE2	2.36	0.59
1:B:489:SER:HA	1:B:490:THR:HB	1.83	0.59
1:C:556:VAL:HA	1:C:559:PHE:CD2	2.37	0.59
1:D:44:PHE:HA	1:D:47:TYR:HB3	1.85	0.59
1:D:155:LEU:CD1	1:D:198:LYS:HE2	2.33	0.59
2:F:320:ARG:HH22	2:F:457:GLU:N	2.01	0.59
2:G:348:VAL:HA	2:G:351:VAL:HB	1.84	0.59
1:B:591:HIS:HA	2:E:445:TRP:O	2.01	0.59
1:B:651:GLU:O	1:B:655:THR:HG23	2.01	0.59
2:E:400:LEU:O	2:E:405:SER:OG	2.20	0.59
2:F:373:LEU:HD22	2:F:412:LEU:HD21	1.83	0.59
1:A:50:ILE:O	1:A:54:MET:HG2	2.02	0.59
1:A:151:LEU:O	1:A:198:LYS:HE3	2.02	0.59
1:A:429:TYR:HB3	1:A:433:ARG:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:379:GLN:HE22	1:B:387:LEU:HD11	1.66	0.59
1:D:405:LEU:N	1:D:574:GLN:OE1	2.36	0.59
2:G:305:LEU:O	2:G:419:TYR:CE1	2.56	0.59
1:B:230:LEU:HD21	1:B:263:LEU:HD23	1.84	0.59
1:B:297:GLN:O	1:D:353:ARG:NH1	2.36	0.59
1:C:446:ASN:OD1	1:C:569:LEU:HD11	2.02	0.59
1:D:152:ILE:HG21	1:D:197:PRO:CD	2.32	0.59
1:D:397:GLU:HG2	1:D:400:LEU:HD12	1.83	0.59
1:C:476:PHE:CE2	1:C:501:PHE:CD1	2.90	0.59
1:C:651:GLU:O	1:C:655:THR:HG23	2.02	0.59
2:H:331:LEU:HD11	2:H:391:LEU:HD11	1.84	0.59
1:A:99:GLU:N	1:A:241:LEU:HD12	2.18	0.59
1:A:131:PRO:HB3	1:A:214:PRO:O	2.02	0.59
1:C:397:GLU:O	1:C:401:LEU:HG	2.02	0.59
1:D:468:LEU:O	1:D:472:LEU:HG	2.03	0.59
1:A:648:ASP:O	1:A:652:ALA:CB	2.51	0.59
1:C:202:LYS:CE	1:C:244:PHE:HE1	2.10	0.59
1:C:222:MET:HG3	1:C:250:PHE:CD1	2.37	0.59
1:D:130:THR:OG1	1:D:131:PRO:HD3	2.02	0.59
2:E:311:ILE:HG13	2:E:421:ILE:HG12	1.85	0.59
2:H:323:LEU:HD22	2:H:391:LEU:HD13	1.84	0.59
1:A:199:MET:CE	1:A:203:LYS:HE3	2.33	0.58
1:B:147:PHE:O	1:B:151:LEU:HB2	2.02	0.58
1:B:151:LEU:HD12	1:B:198:LYS:HZ2	1.66	0.58
1:C:152:ILE:HG12	1:C:198:LYS:CB	2.32	0.58
1:C:155:LEU:HG	1:C:198:LYS:HE2	1.85	0.58
1:D:597:ARG:NH2	1:D:708:THR:OG1	2.35	0.58
1:D:645:ASN:HA	1:D:703:HIS:CE1	2.38	0.58
2:E:323:LEU:HD22	2:E:391:LEU:HD13	1.84	0.58
2:F:328:THR:O	2:F:332:GLN:NE2	2.28	0.58
2:F:412:LEU:HB3	2:F:418:ILE:HD11	1.84	0.58
1:B:476:PHE:CE2	1:B:501:PHE:CD1	2.90	0.58
1:B:489:SER:HA	1:B:490:THR:CB	2.33	0.58
1:C:694:ILE:HA	1:C:706:ARG:HA	1.86	0.58
2:E:340:ASN:HB3	2:E:342:PHE:CE2	2.39	0.58
2:G:366:PHE:N	2:G:372:GLN:HG2	2.18	0.58
1:A:296:THR:HB	1:A:410:MET:SD	2.42	0.58
1:A:489:SER:HA	1:A:490:THR:CB	2.33	0.58
1:A:590:GLU:O	2:G:445:TRP:HB2	2.02	0.58
1:B:155:LEU:CD1	1:B:215:VAL:HG21	2.33	0.58
1:C:335:HIS:O	1:C:338:SER:N	2.25	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:394:ASN:ND2	2:E:425:ASP:OD2	2.23	0.58
1:B:98:ARG:HA	1:B:238:SER:O	2.04	0.58
1:B:694:ILE:HD13	1:B:704:VAL:HG13	1.84	0.58
1:D:155:LEU:HD11	1:D:215:VAL:HG21	1.86	0.58
2:E:373:LEU:HD22	2:E:412:LEU:HD21	1.84	0.58
1:B:475:CYS:O	1:B:479:PHE:CD2	2.56	0.58
1:C:489:SER:HA	1:C:490:THR:HB	1.83	0.58
1:D:216:VAL:HA	1:D:247:ILE:O	2.04	0.58
1:D:271:LEU:HD13	1:D:273:ILE:HD11	1.86	0.58
1:D:629:ASP:OD2	1:D:680:ARG:NH1	2.37	0.58
2:E:352:LEU:O	2:E:356:THR:OG1	2.14	0.58
1:B:130:THR:OG1	1:B:131:PRO:HD3	2.03	0.58
1:B:152:ILE:HG21	1:B:197:PRO:CB	2.33	0.58
1:C:125:LEU:O	1:C:131:PRO:HD2	2.02	0.58
1:D:651:GLU:O	1:D:655:THR:HG23	2.03	0.58
1:D:683:ARG:HD2	2:F:458:THR:OG1	2.04	0.58
2:F:390:LEU:HD11	2:F:420:LEU:HD13	1.84	0.58
1:D:554:GLU:O	1:D:558:ASN:N	2.36	0.58
2:F:318:SER:N	2:F:452:SER:O	2.28	0.58
2:G:298:PHE:HB3	2:G:330:MET:CG	2.34	0.58
1:A:418:CYS:HA	1:A:479:PHE:CE2	2.39	0.58
1:C:152:ILE:HG12	1:C:198:LYS:HB2	1.86	0.58
1:C:314:PHE:HA	1:C:318:ASP:O	2.04	0.58
1:D:125:LEU:HD22	1:D:131:PRO:HG3	1.85	0.58
1:D:288:VAL:O	1:D:292:LEU:N	2.30	0.58
1:D:335:HIS:O	1:D:338:SER:N	2.28	0.58
1:D:420:HIS:CD2	1:D:438:LEU:HD22	2.39	0.58
1:D:648:ASP:O	1:D:652:ALA:CB	2.52	0.58
2:H:337:VAL:HG22	2:H:359:VAL:HG21	1.86	0.58
1:C:148:LEU:HG	1:C:233:PHE:HE1	1.69	0.58
1:C:488:GLY:O	1:C:490:THR:OG1	2.21	0.58
2:H:312:VAL:HB	2:H:445:TRP:HA	1.86	0.58
1:A:155:LEU:HG	1:A:198:LYS:HE2	1.86	0.58
1:B:147:PHE:CE1	1:B:225:PHE:CZ	2.92	0.58
1:B:151:LEU:O	1:B:198:LYS:HE3	2.03	0.58
1:C:147:PHE:CE2	1:C:229:VAL:HG11	2.39	0.58
1:D:125:LEU:O	1:D:131:PRO:CD	2.52	0.58
1:D:453:TYR:HH	1:D:559:PHE:HE1	1.44	0.58
2:E:287:LEU:HD22	2:E:451:TYR:HB2	1.84	0.58
2:F:352:LEU:HA	2:F:355:ILE:HG22	1.86	0.58
2:F:428:ASN:O	2:F:431:LEU:HB3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:591:HIS:CD2	2:E:445:TRP:O	2.57	0.57
1:C:468:LEU:O	1:C:472:LEU:HG	2.03	0.57
1:D:267:VAL:HG12	1:D:271:LEU:HD11	1.86	0.57
1:A:302:ILE:HG23	1:A:306:VAL:HG22	1.84	0.57
1:B:152:ILE:HG21	1:B:197:PRO:CG	2.34	0.57
1:B:324:PHE:O	1:B:328:LEU:HG	2.04	0.57
1:C:379:GLN:CG	1:C:380:ALA:N	2.52	0.57
1:C:683:ARG:NH1	2:H:458:THR:HA	2.20	0.57
1:A:468:LEU:O	1:A:472:LEU:HG	2.05	0.57
1:C:480:LYS:O	1:C:484:GLU:CG	2.52	0.57
1:C:500:GLN:O	1:C:503:SER:OG	2.17	0.57
2:E:337:VAL:HG21	2:E:355:ILE:HG13	1.85	0.57
1:A:152:ILE:HG21	1:A:197:PRO:CG	2.34	0.57
1:D:302:ILE:HG23	1:D:306:VAL:HG22	1.87	0.57
2:E:331:LEU:HD11	2:E:391:LEU:HD11	1.85	0.57
2:H:317:GLY:O	2:H:319:LYS:NZ	2.38	0.57
1:B:310:LEU:O	1:B:313:ILE:HG22	2.04	0.57
1:B:326:LYS:O	1:B:330:LEU:HG	2.05	0.57
1:D:296:THR:HB	1:D:410:MET:SD	2.43	0.57
1:A:152:ILE:HG21	1:A:197:PRO:CB	2.34	0.57
1:B:480:LYS:HE2	1:B:498:LEU:HB3	1.86	0.57
1:B:685:VAL:CG1	1:B:704:VAL:HG21	2.34	0.57
1:C:310:LEU:O	1:C:313:ILE:HG22	2.05	0.57
1:D:226:ALA:O	1:D:230:LEU:N	2.38	0.57
1:D:384:GLN:O	1:D:388:LEU:HG	2.04	0.57
1:D:418:CYS:HA	1:D:479:PHE:CZ	2.39	0.57
2:H:352:LEU:HA	2:H:355:ILE:HG22	1.85	0.57
1:B:297:GLN:O	1:D:353:ARG:CZ	2.53	0.57
1:A:416:LEU:O	1:A:420:HIS:ND1	2.37	0.57
1:A:479:PHE:HA	1:A:482:TYR:HD2	1.70	0.57
1:B:376:VAL:HA	1:B:379:GLN:OE1	2.04	0.57
1:B:447:ILE:HG22	1:B:453:TYR:CG	2.40	0.57
1:B:482:TYR:O	1:B:487:LEU:N	2.33	0.57
1:C:302:ILE:HG23	1:C:306:VAL:HG22	1.85	0.57
1:D:98:ARG:HA	1:D:238:SER:O	2.05	0.57
1:D:147:PHE:O	1:D:151:LEU:HB2	2.04	0.57
1:D:230:LEU:HD21	1:D:263:LEU:HD23	1.86	0.57
2:F:323:LEU:HD22	2:F:391:LEU:HD13	1.86	0.57
2:F:337:VAL:HG22	2:F:359:VAL:HG21	1.86	0.57
2:G:331:LEU:HD11	2:G:391:LEU:HD11	1.87	0.57
1:A:310:LEU:O	1:A:313:ILE:HG22	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:493:ARG:O	1:B:497:PHE:CD2	2.58	0.57
1:D:694:ILE:HB	1:D:704:VAL:HG13	1.86	0.57
1:C:101:PRO:O	1:C:247:ILE:HA	2.05	0.57
1:A:216:VAL:HA	1:A:247:ILE:O	2.05	0.56
1:A:271:LEU:HD13	1:A:273:ILE:HD11	1.87	0.56
2:G:323:LEU:HD22	2:G:391:LEU:HD13	1.87	0.56
1:C:155:LEU:CD1	1:C:215:VAL:HG21	2.35	0.56
1:C:563:LEU:N	1:C:567:TYR:CD2	2.73	0.56
1:A:43:ARG:NH2	1:A:342:SER:OG	2.38	0.56
1:A:134:VAL:HG22	1:A:154:GLN:HB3	1.87	0.56
1:A:280:SER:O	1:A:284:HIS:ND1	2.38	0.56
1:A:560:ILE:HA	1:A:564:VAL:HB	1.88	0.56
1:B:494:ILE:HA	1:B:497:PHE:HD2	1.71	0.56
1:B:548:LYS:O	1:B:551:VAL:N	2.38	0.56
1:B:563:LEU:HA	1:B:567:TYR:HB2	1.86	0.56
1:C:52:GLN:O	1:C:56:SER:OG	2.12	0.56
1:D:234:ILE:O	1:D:238:SER:HB2	2.04	0.56
2:F:331:LEU:HD11	2:F:391:LEU:HD11	1.87	0.56
2:F:416:HIS:O	2:F:419:TYR:CZ	2.59	0.56
2:G:335:ILE:HG22	2:G:388:LEU:HA	1.87	0.56
2:G:352:LEU:HA	2:G:355:ILE:HG22	1.86	0.56
2:G:400:LEU:O	2:G:405:SER:OG	2.23	0.56
2:G:412:LEU:HB3	2:G:418:ILE:HD11	1.87	0.56
1:A:421:LYS:HB2	1:A:479:PHE:CE2	2.40	0.56
1:A:648:ASP:HA	1:A:651:GLU:HB2	1.86	0.56
1:B:296:THR:HB	1:B:410:MET:SD	2.44	0.56
1:B:302:ILE:HG23	1:B:306:VAL:HG22	1.87	0.56
2:H:366:PHE:N	2:H:372:GLN:HG2	2.20	0.56
2:H:412:LEU:HB3	2:H:418:ILE:HD11	1.88	0.56
1:A:385:VAL:O	1:A:388:LEU:N	2.39	0.56
1:A:694:ILE:HD12	1:A:695:LYS:N	2.19	0.56
1:C:147:PHE:O	1:C:151:LEU:HB2	2.05	0.56
1:C:271:LEU:HD13	1:C:273:ILE:HD11	1.87	0.56
1:C:480:LYS:HE2	1:C:498:LEU:HB3	1.87	0.56
1:D:64:GLU:O	1:D:67:LYS:N	2.38	0.56
1:D:147:PHE:CE1	1:D:225:PHE:CZ	2.94	0.56
1:D:476:PHE:HB3	1:D:480:LYS:HE3	1.88	0.56
1:D:488:GLY:O	1:D:490:THR:OG1	2.23	0.56
2:E:304:GLN:OE1	2:E:446:TYR:OH	2.22	0.56
2:E:412:LEU:HB3	2:E:418:ILE:HD11	1.88	0.56
2:G:428:ASN:O	2:G:431:LEU:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:651:GLU:O	1:A:655:THR:HG23	2.05	0.56
1:C:429:TYR:CB	1:C:433:ARG:HG2	2.35	0.56
2:F:312:VAL:CG2	2:F:443:TRP:CE3	2.89	0.56
1:A:409:HIS:HA	1:A:412:TYR:HD2	1.69	0.56
1:C:296:THR:HB	1:C:410:MET:SD	2.46	0.56
1:C:447:ILE:HG22	1:C:453:TYR:CG	2.41	0.56
1:C:648:ASP:HA	1:C:651:GLU:HB2	1.88	0.56
1:D:104:ALA:HA	1:D:250:PHE:HD2	1.71	0.56
1:D:152:ILE:HG12	1:D:198:LYS:CB	2.35	0.56
1:D:412:TYR:O	1:D:415:VAL:N	2.38	0.56
1:D:446:ASN:HA	1:D:569:LEU:HD21	1.86	0.56
2:H:312:VAL:CG2	2:H:443:TRP:CE3	2.89	0.56
1:A:147:PHE:O	1:A:151:LEU:HB2	2.06	0.56
1:A:202:LYS:CE	1:A:215:VAL:HG23	2.36	0.56
1:A:230:LEU:HD21	1:A:263:LEU:HD23	1.86	0.56
1:B:330:LEU:HD21	2:E:309:PHE:CE2	2.40	0.56
1:D:147:PHE:HE1	1:D:225:PHE:CZ	2.24	0.56
1:A:46:THR:HA	1:A:49:LEU:HD12	1.88	0.56
1:A:482:TYR:O	1:A:486:HIS:N	2.39	0.56
1:B:648:ASP:HA	1:B:651:GLU:HB2	1.88	0.56
1:C:64:GLU:O	1:C:67:LYS:N	2.38	0.56
1:C:285:LEU:O	1:C:288:VAL:HG12	2.06	0.56
1:C:569:LEU:O	1:C:573:THR:CG2	2.54	0.56
2:H:305:LEU:O	2:H:419:TYR:CE1	2.59	0.56
1:A:234:ILE:O	1:A:238:SER:HB2	2.05	0.56
1:B:155:LEU:HD11	1:B:215:VAL:HG21	1.87	0.56
1:B:229:VAL:HG13	1:B:233:PHE:HE2	1.71	0.56
1:B:379:GLN:NE2	1:B:387:LEU:CD1	2.68	0.56
1:B:384:GLN:HG2	1:B:388:LEU:HD11	1.88	0.56
1:B:690:LEU:O	2:E:426:HIS:HA	2.06	0.56
1:C:458:GLN:O	1:C:462:MET:HG2	2.05	0.56
1:C:482:TYR:HA	1:C:486:HIS:ND1	2.21	0.56
1:D:148:LEU:HG	1:D:233:PHE:HE1	1.71	0.56
2:H:320:ARG:NH2	2:H:342:PHE:CZ	2.74	0.56
1:A:222:MET:HG3	1:A:250:PHE:CD1	2.41	0.55
1:A:324:PHE:O	1:A:328:LEU:HG	2.05	0.55
1:B:50:ILE:HG12	1:B:298:PHE:CD1	2.41	0.55
1:D:446:ASN:ND2	1:D:449:ASP:OD2	2.39	0.55
1:A:229:VAL:HG13	1:A:233:PHE:HE2	1.71	0.55
1:B:134:VAL:HG22	1:B:154:GLN:HB3	1.88	0.55
1:B:280:SER:O	1:B:284:HIS:ND1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:379:GLN:NE2	1:B:387:LEU:HD11	2.21	0.55
1:D:645:ASN:OD1	1:D:648:ASP:N	2.37	0.55
1:A:458:GLN:O	1:A:462:MET:HG2	2.05	0.55
1:C:155:LEU:HD12	1:C:198:LYS:CD	2.37	0.55
1:C:379:GLN:CG	1:C:380:ALA:H	1.86	0.55
1:C:464:ALA:HA	1:C:468:LEU:HD12	1.88	0.55
1:D:458:GLN:O	1:D:462:MET:HG2	2.07	0.55
2:E:352:LEU:HA	2:E:355:ILE:HG22	1.88	0.55
1:A:448:TRP:HZ2	1:A:559:PHE:HB3	1.71	0.55
1:A:695:LYS:HD2	1:A:707:LEU:HD11	1.87	0.55
1:B:464:ALA:HA	1:B:468:LEU:HD12	1.89	0.55
1:B:476:PHE:HB3	1:B:480:LYS:HE3	1.87	0.55
1:C:152:ILE:HA	1:C:198:LYS:HG3	1.87	0.55
1:D:81:HIS:CE1	1:D:214:PRO:HG3	2.41	0.55
1:D:369:LEU:HD11	1:D:576:LEU:HD23	1.87	0.55
1:D:479:PHE:HA	1:D:482:TYR:HD2	1.72	0.55
1:D:43:ARG:NH2	1:D:342:SER:OG	2.39	0.55
1:D:381:SER:O	1:D:383:LYS:C	2.44	0.55
1:D:480:LYS:HE2	1:D:498:LEU:HB3	1.88	0.55
2:E:366:PHE:O	2:E:372:GLN:CG	2.54	0.55
1:A:147:PHE:HE1	1:A:225:PHE:CZ	2.24	0.55
1:A:687:GLU:O	1:A:690:LEU:N	2.40	0.55
1:B:42:LEU:HD13	1:B:354:ARG:NH1	2.21	0.55
1:B:226:ALA:O	1:B:230:LEU:N	2.38	0.55
1:B:569:LEU:O	1:B:573:THR:CG2	2.55	0.55
1:B:645:ASN:HA	1:B:703:HIS:CE1	2.42	0.55
2:F:298:PHE:HB3	2:F:330:MET:SD	2.45	0.55
2:F:352:LEU:HD21	2:F:373:LEU:HD21	1.88	0.55
1:A:494:ILE:HA	1:A:497:PHE:HD2	1.72	0.55
1:B:152:ILE:HG21	1:B:197:PRO:CD	2.37	0.55
1:B:375:TYR:CZ	1:B:401:LEU:HD21	2.42	0.55
1:B:418:CYS:HA	1:B:479:PHE:CE2	2.42	0.55
1:B:560:ILE:HA	1:B:564:VAL:HB	1.88	0.55
1:C:429:TYR:CG	1:C:433:ARG:HG2	2.41	0.55
1:C:645:ASN:OD1	1:C:648:ASP:N	2.35	0.55
1:C:694:ILE:HD13	1:C:704:VAL:HG13	1.89	0.55
1:D:302:ILE:CG2	1:D:307:LEU:HG	2.37	0.55
2:G:295:GLU:O	2:G:298:PHE:HB2	2.07	0.55
2:G:390:LEU:HD11	2:G:420:LEU:HD13	1.89	0.55
2:H:298:PHE:HB3	2:H:330:MET:SD	2.47	0.55
2:H:325:ARG:O	2:H:329:THR:N	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:404:ASN:CB	1:B:574:GLN:OE1	2.55	0.55
1:C:401:LEU:HD22	1:C:575:PRO:CG	2.37	0.55
1:C:420:HIS:CD2	1:C:438:LEU:HD22	2.42	0.55
1:C:683:ARG:HA	1:C:683:ARG:NE	2.20	0.55
1:D:464:ALA:HA	1:D:468:LEU:HD12	1.87	0.55
1:D:475:CYS:O	1:D:479:PHE:CD2	2.60	0.55
2:E:320:ARG:CZ	2:E:456:GLU:HB2	2.36	0.55
1:A:375:TYR:CZ	1:A:401:LEU:HD21	2.42	0.55
1:B:104:ALA:HA	1:B:250:PHE:HD2	1.72	0.55
1:B:202:LYS:HB2	1:B:244:PHE:CE1	2.42	0.55
1:C:234:ILE:O	1:C:238:SER:HB2	2.06	0.55
1:A:131:PRO:CB	1:A:214:PRO:O	2.55	0.54
1:B:369:LEU:HD11	1:B:576:LEU:HD23	1.89	0.54
1:C:152:ILE:HG21	1:C:197:PRO:CB	2.37	0.54
1:C:367:ARG:CZ	1:C:388:LEU:O	2.55	0.54
2:E:312:VAL:CG2	2:E:443:TRP:CE3	2.91	0.54
2:E:366:PHE:N	2:E:372:GLN:HG2	2.22	0.54
2:G:333:ASP:HB2	2:G:336:HIS:HE2	1.73	0.54
1:A:325:ILE:O	1:A:328:LEU:N	2.40	0.54
1:A:453:TYR:OH	1:A:563:LEU:CD1	2.55	0.54
1:C:43:ARG:NH2	1:C:342:SER:H	2.05	0.54
1:C:367:ARG:HA	1:C:372:PHE:CE2	2.42	0.54
1:C:594:ALA:HB2	2:H:445:TRP:CE2	2.43	0.54
1:D:229:VAL:HG13	1:D:233:PHE:HE2	1.71	0.54
2:F:305:LEU:O	2:F:419:TYR:CE1	2.61	0.54
2:G:397:SER:HB2	2:G:398:GLN:C	2.27	0.54
1:A:478:VAL:O	1:A:481:SER:HB3	2.07	0.54
1:B:63:GLU:O	1:B:66:ASN:HB2	2.07	0.54
1:B:285:LEU:O	1:B:288:VAL:HG12	2.07	0.54
1:B:479:PHE:HA	1:B:482:TYR:HD2	1.73	0.54
1:D:569:LEU:O	1:D:573:THR:CG2	2.56	0.54
2:H:337:VAL:HG21	2:H:355:ILE:HG13	1.88	0.54
1:A:128:ASN:HB2	1:A:130:THR:OG1	2.07	0.54
1:A:152:ILE:HG12	1:A:198:LYS:CB	2.37	0.54
1:A:352:LYS:NZ	1:A:403:GLU:OE2	2.30	0.54
1:A:369:LEU:HD11	1:A:576:LEU:HD23	1.90	0.54
1:A:476:PHE:HB3	1:A:480:LYS:HE3	1.90	0.54
1:B:45:GLU:O	1:B:49:LEU:HG	2.08	0.54
1:C:480:LYS:HE2	1:C:498:LEU:CB	2.38	0.54
1:D:63:GLU:O	1:D:66:ASN:HB2	2.07	0.54
2:E:325:ARG:O	2:E:329:THR:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:366:PHE:O	2:G:372:GLN:CG	2.55	0.54
2:H:320:ARG:CZ	2:H:456:GLU:HB2	2.37	0.54
1:B:330:LEU:O	1:B:334:GLU:CB	2.56	0.54
1:C:125:LEU:HD22	1:C:131:PRO:HG3	1.90	0.54
1:C:250:PHE:HB3	1:C:252:ILE:CD1	2.38	0.54
1:C:649:TRP:HZ3	1:C:704:VAL:HB	1.73	0.54
1:D:152:ILE:HG23	1:D:198:LYS:N	2.23	0.54
1:D:202:LYS:CD	1:D:244:PHE:CE1	2.91	0.54
2:E:298:PHE:HB3	2:E:330:MET:HG3	1.90	0.54
2:F:366:PHE:N	2:F:372:GLN:HG2	2.22	0.54
1:A:138:ALA:HB2	1:A:221:ASP:O	2.07	0.54
1:A:330:LEU:O	1:A:334:GLU:HB2	2.07	0.54
1:A:412:TYR:O	1:A:415:VAL:N	2.41	0.54
1:C:267:VAL:HG12	1:C:271:LEU:HD11	1.90	0.54
1:A:152:ILE:HG21	1:A:197:PRO:CD	2.38	0.54
1:A:267:VAL:HG12	1:A:271:LEU:HD11	1.89	0.54
1:A:330:LEU:O	1:A:334:GLU:CB	2.56	0.54
1:B:152:ILE:HG12	1:B:198:LYS:CB	2.38	0.54
1:B:420:HIS:CD2	1:B:438:LEU:HD22	2.43	0.54
1:B:421:LYS:HB2	1:B:479:PHE:CE2	2.43	0.54
1:C:479:PHE:HA	1:C:482:TYR:HD2	1.73	0.54
1:C:645:ASN:HA	1:C:703:HIS:CE1	2.42	0.54
1:D:417:ARG:O	1:D:479:PHE:CZ	2.60	0.54
1:D:420:HIS:NE2	1:D:438:LEU:HB2	2.21	0.54
1:D:152:ILE:HG12	1:D:198:LYS:H	1.71	0.54
1:A:480:LYS:HE2	1:A:498:LEU:HB3	1.90	0.54
1:B:202:LYS:CE	1:B:215:VAL:HG23	2.38	0.54
1:C:685:VAL:CG1	1:C:704:VAL:HG21	2.38	0.54
2:E:339:ILE:HD13	2:E:351:VAL:HG13	1.90	0.54
2:F:339:ILE:HD13	2:F:351:VAL:HG13	1.90	0.54
1:B:646:LEU:HA	1:B:649:TRP:HB3	1.90	0.54
1:D:199:MET:CE	1:D:244:PHE:CE2	2.91	0.54
2:E:352:LEU:HD21	2:E:373:LEU:HD21	1.90	0.54
2:F:287:LEU:HD22	2:F:451:TYR:HB2	1.90	0.54
1:A:46:THR:O	1:A:50:ILE:HG13	2.09	0.53
1:A:230:LEU:HD11	1:A:263:LEU:HD22	1.89	0.53
1:A:342:SER:O	1:A:345:CYS:N	2.32	0.53
1:D:141:CYS:HB3	1:D:147:PHE:CE2	2.43	0.53
1:D:683:ARG:CZ	1:D:686:SER:OG	2.56	0.53
2:H:335:ILE:HG22	2:H:388:LEU:HA	1.89	0.53
1:A:420:HIS:NE2	1:A:435:ILE:HA	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:125:LEU:O	1:B:131:PRO:HD2	2.09	0.53
1:B:234:ILE:O	1:B:238:SER:HB3	2.08	0.53
1:C:401:LEU:HD22	1:C:575:PRO:HG3	1.89	0.53
2:E:320:ARG:NH2	2:E:342:PHE:CZ	2.75	0.53
2:F:320:ARG:NH2	2:F:342:PHE:CZ	2.76	0.53
2:G:352:LEU:HD21	2:G:373:LEU:HD21	1.89	0.53
2:H:302:MET:HA	2:H:305:LEU:HD12	1.89	0.53
1:A:99:GLU:C	1:A:241:LEU:CD1	2.77	0.53
1:D:409:HIS:HA	1:D:412:TYR:HD2	1.73	0.53
1:D:478:VAL:O	1:D:481:SER:HB3	2.08	0.53
2:E:305:LEU:O	2:E:419:TYR:CE1	2.60	0.53
1:B:142:PRO:HD2	1:B:146:HIS:ND1	2.24	0.53
1:B:145:LYS:HZ1	1:B:194:LYS:HE2	1.74	0.53
1:B:222:MET:HG3	1:B:250:PHE:CE1	2.43	0.53
1:B:271:LEU:HD13	1:B:273:ILE:HD11	1.90	0.53
1:C:548:LYS:O	1:C:552:LEU:N	2.39	0.53
1:D:401:LEU:HD22	1:D:575:PRO:CG	2.38	0.53
1:A:591:HIS:CE1	2:G:446:TYR:CD1	2.96	0.53
1:B:685:VAL:HG11	1:B:704:VAL:HG21	1.90	0.53
1:C:155:LEU:HD12	1:C:198:LYS:HD3	1.90	0.53
1:C:478:VAL:O	1:C:481:SER:HB3	2.07	0.53
1:C:562:CYS:CB	1:C:567:TYR:HE2	2.21	0.53
1:D:604:LEU:CD1	1:D:693:PHE:CZ	2.91	0.53
1:D:694:ILE:HD12	1:D:695:LYS:N	2.24	0.53
2:F:397:SER:HB2	2:F:398:GLN:C	2.29	0.53
2:H:446:TYR:CB	2:H:448:THR:HG23	2.38	0.53
1:A:226:ALA:O	1:A:230:LEU:N	2.40	0.53
1:A:453:TYR:OH	1:A:559:PHE:CE1	2.60	0.53
1:A:493:ARG:O	1:A:497:PHE:CD2	2.62	0.53
1:A:685:VAL:HG11	1:A:704:VAL:HG21	1.90	0.53
1:B:101:PRO:HA	1:B:272:CYS:HB3	1.89	0.53
1:B:694:ILE:HD12	1:B:695:LYS:N	2.23	0.53
1:C:494:ILE:O	1:C:498:LEU:HG	2.08	0.53
1:D:330:LEU:CD1	1:D:592:LEU:HD21	2.39	0.53
1:D:695:LYS:HG3	1:D:696:PRO:CD	2.38	0.53
2:E:298:PHE:HB3	2:E:330:MET:CG	2.38	0.53
2:G:320:ARG:HH22	2:G:457:GLU:N	2.06	0.53
2:G:340:ASN:HB3	2:G:342:PHE:CE2	2.44	0.53
1:A:209:GLN:HE22	1:A:213:PRO:HG3	1.72	0.53
1:A:330:LEU:HD13	1:A:592:LEU:HD21	1.91	0.53
1:B:234:ILE:O	1:B:238:SER:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:155:LEU:HG	1:D:198:LYS:HE2	1.91	0.53
1:D:429:TYR:CB	1:D:433:ARG:HG2	2.39	0.53
1:D:685:VAL:CG1	1:D:704:VAL:HG21	2.39	0.53
2:H:311:ILE:HB	2:H:446:TYR:CE2	2.44	0.53
1:B:148:LEU:O	1:B:151:LEU:HB3	2.09	0.53
1:B:155:LEU:HG	1:B:198:LYS:HE2	1.91	0.53
1:B:420:HIS:NE2	1:B:438:LEU:HB2	2.24	0.53
1:C:476:PHE:HB3	1:C:480:LYS:HE3	1.91	0.53
1:D:46:THR:O	1:D:50:ILE:HG13	2.08	0.53
1:D:152:ILE:HG12	1:D:198:LYS:HB2	1.91	0.53
1:D:244:PHE:O	1:D:246:LEU:N	2.40	0.53
1:D:452:GLU:OE1	1:D:452:GLU:N	2.31	0.53
1:D:687:GLU:O	1:D:690:LEU:N	2.42	0.53
2:H:416:HIS:O	2:H:419:TYR:CZ	2.61	0.53
1:A:464:ALA:HA	1:A:468:LEU:HD12	1.91	0.53
1:B:43:ARG:NH2	1:B:342:SER:H	2.07	0.53
1:B:99:GLU:C	1:B:241:LEU:CD1	2.77	0.53
1:B:385:VAL:O	1:B:388:LEU:N	2.42	0.53
1:B:687:GLU:O	1:B:690:LEU:N	2.42	0.53
1:C:335:HIS:CE1	1:C:579:VAL:HA	2.43	0.53
1:D:219:LEU:HB2	1:D:222:MET:HG2	1.91	0.53
1:D:418:CYS:SG	1:D:422:PHE:HE2	2.32	0.53
1:D:694:ILE:HD13	1:D:704:VAL:HG13	1.91	0.53
2:E:302:MET:HA	2:E:305:LEU:HD12	1.91	0.53
2:G:320:ARG:CZ	2:G:456:GLU:HB2	2.38	0.53
2:H:327:ARG:HA	2:H:331:LEU:HB2	1.91	0.53
1:A:147:PHE:CE2	1:A:229:VAL:HG11	2.43	0.53
1:A:483:CYS:HA	1:A:487:LEU:O	2.09	0.53
1:A:556:VAL:CA	1:A:559:PHE:HD2	2.21	0.53
1:B:268:SER:HA	1:B:271:LEU:HD12	1.91	0.53
1:B:412:TYR:O	1:B:415:VAL:N	2.40	0.53
1:C:330:LEU:O	1:C:334:GLU:HB2	2.09	0.53
1:C:369:LEU:HD11	1:C:576:LEU:HD23	1.90	0.53
1:D:563:LEU:HA	1:D:567:TYR:HB2	1.89	0.53
2:E:377:VAL:O	2:E:381:LYS:N	2.32	0.53
2:G:365:THR:HB	2:G:372:GLN:CD	2.29	0.53
1:A:301:LYS:N	1:A:580:VAL:O	2.39	0.52
1:A:387:LEU:HD22	1:A:394:LEU:HD13	1.90	0.52
1:A:403:GLU:O	1:A:407:VAL:HG23	2.08	0.52
1:B:49:LEU:HD23	1:D:45:GLU:OE2	2.09	0.52
1:B:152:ILE:HG23	1:B:198:LYS:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:429:TYR:CG	1:B:433:ARG:HG2	2.44	0.52
1:C:147:PHE:HE1	1:C:225:PHE:CZ	2.27	0.52
1:C:230:LEU:HD21	1:C:263:LEU:HD23	1.89	0.52
2:G:318:SER:N	2:G:452:SER:O	2.30	0.52
2:G:339:ILE:HD13	2:G:351:VAL:HG22	1.90	0.52
1:A:132:TYR:O	1:A:155:LEU:HD21	2.09	0.52
1:A:404:ASN:C	1:A:574:GLN:OE1	2.48	0.52
1:A:421:LYS:NZ	1:A:479:PHE:CD1	2.71	0.52
1:B:403:GLU:O	1:B:407:VAL:HG23	2.08	0.52
1:B:429:TYR:CB	1:B:433:ARG:HG2	2.39	0.52
1:B:478:VAL:O	1:B:481:SER:HB3	2.08	0.52
1:D:480:LYS:HE2	1:D:498:LEU:CB	2.39	0.52
2:E:348:VAL:HA	2:E:351:VAL:HB	1.90	0.52
1:B:347:ASN:OD1	1:D:350:GLU:HG3	2.09	0.52
1:C:155:LEU:CD1	1:C:198:LYS:HE2	2.39	0.52
1:C:238:SER:HA	1:C:241:LEU:HG	1.92	0.52
1:C:403:GLU:O	1:C:407:VAL:HG23	2.09	0.52
2:G:314:TYR:N	2:G:448:THR:OG1	2.43	0.52
1:A:101:PRO:O	1:A:247:ILE:HA	2.10	0.52
1:A:133:VAL:N	1:A:158:CYS:SG	2.83	0.52
1:A:368:ARG:O	1:A:373:ARG:HG3	2.09	0.52
1:C:144:MET:SD	1:C:233:PHE:CE2	3.02	0.52
1:C:461:ARG:HG2	1:C:552:LEU:CD2	2.39	0.52
2:E:295:GLU:O	2:E:298:PHE:HB2	2.10	0.52
2:E:373:LEU:O	2:E:377:VAL:HB	2.10	0.52
2:F:454:TYR:O	2:F:458:THR:OG1	2.23	0.52
2:H:365:THR:HB	2:H:372:GLN:CD	2.30	0.52
1:A:296:THR:HG22	1:A:413:PHE:CD2	2.45	0.52
1:A:371:SER:HA	1:A:374:ARG:HB2	1.91	0.52
1:B:97:LEU:HA	1:B:242:HIS:CG	2.45	0.52
1:B:405:LEU:HD23	1:B:574:GLN:HB2	1.92	0.52
1:B:448:TRP:HZ2	1:B:559:PHE:HB3	1.74	0.52
1:C:368:ARG:O	1:C:373:ARG:HG3	2.09	0.52
1:C:412:TYR:O	1:C:415:VAL:N	2.41	0.52
1:C:417:ARG:HD3	1:C:482:TYR:CE1	2.43	0.52
1:C:493:ARG:O	1:C:497:PHE:CD2	2.62	0.52
1:D:155:LEU:CD1	1:D:215:VAL:HG21	2.40	0.52
1:D:448:TRP:CZ2	1:D:559:PHE:HB3	2.44	0.52
2:E:347:SER:N	2:E:350:SER:OG	2.38	0.52
2:E:390:LEU:HD11	2:E:420:LEU:HD13	1.92	0.52
1:A:100:ILE:O	1:A:270:LEU:O	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:420:HIS:CD2	1:A:438:LEU:HD22	2.43	0.52
1:B:302:ILE:CG2	1:B:307:LEU:HG	2.40	0.52
1:B:468:LEU:O	1:B:472:LEU:HG	2.09	0.52
1:D:649:TRP:HZ3	1:D:704:VAL:HB	1.75	0.52
1:C:367:ARG:NE	1:C:388:LEU:O	2.43	0.52
1:D:369:LEU:HD13	1:D:370:PRO:O	2.10	0.52
2:F:302:MET:HA	2:F:305:LEU:HD12	1.92	0.52
2:F:304:GLN:OE1	2:F:446:TYR:OH	2.26	0.52
2:G:416:HIS:O	2:G:419:TYR:CZ	2.62	0.52
2:H:333:ASP:HB2	2:H:336:HIS:HE2	1.74	0.52
1:A:335:HIS:CE1	1:A:579:VAL:HA	2.45	0.52
1:B:202:LYS:HD2	1:B:244:PHE:CD1	2.45	0.52
1:B:342:SER:O	1:B:345:CYS:N	2.33	0.52
1:B:420:HIS:O	1:B:424:SER:N	2.28	0.52
1:C:144:MET:SD	1:C:232:ASP:HB2	2.49	0.52
1:C:420:HIS:NE2	1:C:438:LEU:HB2	2.25	0.52
1:C:446:ASN:HA	1:C:569:LEU:HD21	1.92	0.52
1:D:131:PRO:CB	1:D:214:PRO:O	2.57	0.52
1:D:330:LEU:O	1:D:334:GLU:HB2	2.10	0.52
1:D:368:ARG:O	1:D:373:ARG:HG3	2.10	0.52
1:D:453:TYR:OH	1:D:559:PHE:CD1	2.60	0.52
2:F:391:LEU:CD2	2:F:421:ILE:HB	2.40	0.52
2:G:337:VAL:HG21	2:G:355:ILE:HG13	1.92	0.52
1:A:417:ARG:O	1:A:479:PHE:CZ	2.62	0.52
1:A:429:TYR:CB	1:A:433:ARG:HG2	2.40	0.52
1:A:548:LYS:O	1:A:551:VAL:N	2.43	0.52
1:B:66:ASN:HB3	1:B:70:PHE:CD2	2.44	0.52
1:B:122:THR:HA	1:B:133:VAL:CG2	2.40	0.52
1:B:367:ARG:HA	1:B:372:PHE:CE2	2.45	0.52
1:C:384:GLN:O	1:C:387:LEU:HB2	2.10	0.52
1:D:147:PHE:CE2	1:D:229:VAL:HG11	2.45	0.52
1:D:288:VAL:CG2	1:D:292:LEU:HD12	2.40	0.52
2:E:347:SER:H	2:E:350:SER:HG	1.56	0.52
1:B:497:PHE:HB3	1:B:501:PHE:HE2	1.75	0.52
1:C:694:ILE:HD12	1:C:695:LYS:N	2.24	0.52
1:D:314:PHE:HD2	1:D:324:PHE:HB2	1.74	0.52
1:D:448:TRP:HZ2	1:D:559:PHE:HB3	1.74	0.52
2:E:397:SER:HB2	2:E:398:GLN:C	2.30	0.52
2:F:365:THR:HB	2:F:372:GLN:CD	2.30	0.52
2:H:352:LEU:HD21	2:H:373:LEU:HD21	1.91	0.52
1:A:554:GLU:O	1:A:558:ASN:N	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:683:ARG:NH1	2:G:458:THR:HA	2.25	0.51
1:B:101:PRO:O	1:B:247:ILE:HA	2.10	0.51
1:B:132:TYR:O	1:B:155:LEU:HD21	2.10	0.51
1:B:337:TYR:OH	2:E:307:LEU:HD11	2.10	0.51
1:B:480:LYS:HE2	1:B:498:LEU:CB	2.41	0.51
1:C:133:VAL:N	1:C:158:CYS:SG	2.82	0.51
1:C:152:ILE:HD12	1:C:194:LYS:O	2.09	0.51
1:C:591:HIS:HA	2:H:445:TRP:H	1.75	0.51
1:D:99:GLU:C	1:D:241:LEU:CD1	2.79	0.51
1:D:202:LYS:CD	1:D:244:PHE:HE1	2.23	0.51
1:D:418:CYS:HA	1:D:479:PHE:CE2	2.45	0.51
1:D:421:LYS:HZ3	1:D:478:VAL:HB	1.75	0.51
1:D:691:LEU:O	2:F:427:LEU:N	2.39	0.51
2:F:325:ARG:O	2:F:329:THR:N	2.41	0.51
2:F:337:VAL:HG21	2:F:355:ILE:HG13	1.92	0.51
2:F:366:PHE:O	2:F:372:GLN:CG	2.58	0.51
1:A:63:GLU:O	1:A:66:ASN:HB2	2.11	0.51
1:A:685:VAL:CG1	1:A:704:VAL:HG21	2.40	0.51
1:B:152:ILE:HG12	1:B:198:LYS:HG3	1.92	0.51
1:B:330:LEU:O	1:B:334:GLU:HB2	2.10	0.51
1:B:404:ASN:C	1:B:574:GLN:OE1	2.49	0.51
1:C:226:ALA:HB3	1:C:229:VAL:HB	1.92	0.51
1:C:342:SER:O	1:C:345:CYS:N	2.35	0.51
1:C:409:HIS:HA	1:C:412:TYR:HD2	1.76	0.51
1:D:101:PRO:O	1:D:247:ILE:HA	2.10	0.51
1:D:325:ILE:O	1:D:328:LEU:N	2.41	0.51
1:D:556:VAL:CA	1:D:559:PHE:HD2	2.23	0.51
2:G:420:LEU:HD12	2:G:421:ILE:N	2.25	0.51
1:A:152:ILE:HG23	1:A:198:LYS:N	2.25	0.51
1:A:288:VAL:O	1:A:292:LEU:N	2.33	0.51
1:A:480:LYS:HE2	1:A:498:LEU:CB	2.40	0.51
1:A:569:LEU:O	1:A:573:THR:CG2	2.59	0.51
1:B:683:ARG:HG3	1:B:687:GLU:OE2	2.11	0.51
1:C:683:ARG:NE	2:H:458:THR:HG23	2.26	0.51
1:D:148:LEU:O	1:D:151:LEU:HB3	2.09	0.51
1:D:385:VAL:O	1:D:388:LEU:N	2.44	0.51
1:D:494:ILE:O	1:D:498:LEU:HG	2.10	0.51
1:D:645:ASN:OD1	1:D:648:ASP:HB2	2.10	0.51
1:A:152:ILE:HA	1:A:198:LYS:HG3	1.93	0.51
1:A:234:ILE:O	1:A:238:SER:HB3	2.10	0.51
1:A:333:LEU:HD13	2:G:307:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:401:LEU:HD22	1:B:575:PRO:HG3	1.92	0.51
1:C:103:ALA:O	1:C:249:ILE:HA	2.11	0.51
1:C:405:LEU:HD23	1:C:574:GLN:HB2	1.93	0.51
1:D:461:ARG:HG2	1:D:552:LEU:CD2	2.40	0.51
1:D:482:TYR:O	1:D:487:LEU:N	2.36	0.51
1:A:110:ASN:HB3	1:A:281:CYS:SG	2.51	0.51
1:A:155:LEU:HD12	1:A:198:LYS:CD	2.41	0.51
1:B:421:LYS:HZ3	1:B:478:VAL:HB	1.75	0.51
1:B:645:ASN:OD1	1:B:648:ASP:HB2	2.10	0.51
1:C:244:PHE:CD2	1:C:246:LEU:HD11	2.15	0.51
1:C:453:TYR:OH	1:C:563:LEU:HD13	2.11	0.51
1:C:590:GLU:O	2:H:445:TRP:O	2.28	0.51
1:D:285:LEU:O	1:D:288:VAL:HG12	2.10	0.51
1:D:330:LEU:O	1:D:334:GLU:CB	2.58	0.51
1:D:429:TYR:CG	1:D:433:ARG:HG2	2.45	0.51
2:H:366:PHE:O	2:H:372:GLN:CG	2.58	0.51
2:H:397:SER:HB2	2:H:398:GLN:C	2.30	0.51
1:C:267:VAL:O	1:C:271:LEU:HG	2.11	0.51
1:C:387:LEU:HA	1:C:394:LEU:HB2	1.92	0.51
1:C:694:ILE:HB	1:C:704:VAL:HG13	1.92	0.51
1:D:306:VAL:HG12	1:D:585:ALA:HB2	1.91	0.51
1:D:330:LEU:HD13	1:D:592:LEU:HD21	1.93	0.51
1:D:405:LEU:HD23	1:D:574:GLN:HB2	1.93	0.51
2:E:416:HIS:O	2:E:419:TYR:CZ	2.64	0.51
2:H:339:ILE:HD13	2:H:351:VAL:HG13	1.93	0.51
1:A:401:LEU:HD22	1:A:575:PRO:CG	2.41	0.51
1:B:267:VAL:HG12	1:B:271:LEU:HD11	1.92	0.51
1:B:553:ARG:O	1:B:557:VAL:HG23	2.11	0.51
1:C:99:GLU:N	1:C:241:LEU:HD12	2.25	0.51
1:C:134:VAL:HG22	1:C:154:GLN:HB3	1.91	0.51
1:C:497:PHE:CE1	1:C:557:VAL:HG13	2.46	0.51
2:E:365:THR:HB	2:E:372:GLN:CD	2.31	0.51
1:A:202:LYS:CD	1:A:244:PHE:CE1	2.92	0.51
1:A:694:ILE:HA	1:A:706:ARG:HA	1.93	0.51
1:B:556:VAL:CA	1:B:559:PHE:HD2	2.22	0.51
1:C:268:SER:HA	1:C:271:LEU:HD12	1.92	0.51
1:C:371:SER:O	1:C:575:PRO:HB3	2.10	0.51
1:D:222:MET:SD	1:D:225:PHE:CE2	3.04	0.51
1:D:367:ARG:HA	1:D:372:PHE:CE2	2.46	0.51
1:D:563:LEU:HA	1:D:567:TYR:CD2	2.46	0.51
2:E:318:SER:HA	2:E:319:LYS:HZ1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:ILE:HG12	1:A:198:LYS:H	1.76	0.51
1:A:199:MET:CE	1:A:244:PHE:HE2	2.24	0.51
1:A:563:LEU:HA	1:A:567:TYR:HB2	1.92	0.51
1:B:417:ARG:O	1:B:479:PHE:CZ	2.63	0.51
1:B:683:ARG:HD2	2:E:458:THR:OG1	2.11	0.51
1:C:306:VAL:HG12	1:C:585:ALA:HB2	1.93	0.51
1:C:326:LYS:HB3	2:H:442:ASN:HD21	1.76	0.51
1:D:128:ASN:O	1:D:129:VAL:HB	2.11	0.51
1:D:293:LEU:HD21	1:D:328:LEU:HD13	1.92	0.51
1:D:563:LEU:HA	1:D:567:TYR:HD2	1.76	0.51
2:F:373:LEU:O	2:F:377:VAL:HB	2.11	0.51
1:A:98:ARG:HA	1:A:238:SER:O	2.10	0.51
1:A:553:ARG:O	1:A:557:VAL:HG23	2.10	0.51
1:A:689:GLU:CG	1:A:694:ILE:HD11	2.41	0.51
1:C:693:PHE:CZ	2:H:427:LEU:HD21	2.46	0.51
1:D:342:SER:O	1:D:345:CYS:N	2.31	0.51
2:H:446:TYR:HB3	2:H:448:THR:HG23	1.93	0.51
1:A:286:THR:HG22	1:A:436:ARG:HE	1.76	0.50
1:A:421:LYS:HZ3	1:A:478:VAL:HB	1.75	0.50
1:A:482:TYR:O	1:A:487:LEU:N	2.32	0.50
1:A:556:VAL:O	1:A:560:ILE:N	2.42	0.50
1:B:446:ASN:OD1	1:B:569:LEU:HD11	2.12	0.50
1:B:693:PHE:CZ	2:E:427:LEU:HD21	2.46	0.50
1:C:66:ASN:HB3	1:C:70:PHE:CD2	2.46	0.50
1:C:404:ASN:CB	1:C:574:GLN:OE1	2.59	0.50
1:D:252:ILE:HD13	1:D:259:ILE:HD11	1.92	0.50
1:D:281:CYS:HB3	1:D:319:PHE:O	2.10	0.50
1:D:691:LEU:O	2:F:426:HIS:HA	2.11	0.50
1:A:152:ILE:HG12	1:A:198:LYS:HB2	1.93	0.50
1:A:202:LYS:CD	1:A:244:PHE:HE1	2.23	0.50
1:A:367:ARG:HA	1:A:372:PHE:CE2	2.46	0.50
1:A:404:ASN:CB	1:A:574:GLN:OE1	2.59	0.50
1:B:132:TYR:O	1:B:155:LEU:CD2	2.59	0.50
1:B:288:VAL:CG2	1:B:292:LEU:HD12	2.42	0.50
1:B:415:VAL:O	1:B:418:CYS:HB3	2.11	0.50
1:C:44:PHE:HA	1:C:47:TYR:HB3	1.93	0.50
1:D:66:ASN:HB3	1:D:70:PHE:CD2	2.45	0.50
1:D:71:ASP:O	1:D:75:GLU:CG	2.59	0.50
1:D:478:VAL:O	1:D:482:TYR:HD2	1.94	0.50
1:D:695:LYS:CG	1:D:696:PRO:HD2	2.41	0.50
2:H:455:THR:CA	2:H:458:THR:HB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:LEU:CG	1:A:198:LYS:HE2	2.42	0.50
1:A:342:SER:OG	1:A:579:VAL:HG13	2.12	0.50
1:B:369:LEU:HD13	1:B:370:PRO:O	2.11	0.50
1:B:562:CYS:HB3	1:B:567:TYR:CE2	2.46	0.50
1:C:330:LEU:O	1:C:334:GLU:HB3	2.12	0.50
2:E:409:ILE:HG22	2:E:441:PHE:CE1	2.47	0.50
2:H:373:LEU:O	2:H:377:VAL:HB	2.11	0.50
1:A:683:ARG:CZ	2:G:458:THR:HG23	2.42	0.50
1:B:415:VAL:HG12	1:B:567:TYR:CE1	2.46	0.50
1:B:552:LEU:O	1:B:556:VAL:HG23	2.11	0.50
1:B:555:ASN:C	1:B:559:PHE:CD2	2.85	0.50
1:C:372:PHE:HA	1:C:375:TYR:HB3	1.92	0.50
1:C:591:HIS:HA	2:H:445:TRP:N	2.26	0.50
1:C:687:GLU:O	1:C:690:LEU:N	2.44	0.50
1:D:230:LEU:HD11	1:D:263:LEU:HD22	1.94	0.50
1:D:555:ASN:HA	1:D:558:ASN:HB2	1.94	0.50
2:F:373:LEU:CD2	2:F:412:LEU:HD21	2.42	0.50
2:H:400:LEU:O	2:H:405:SER:OG	2.29	0.50
2:H:412:LEU:HB3	2:H:418:ILE:CD1	2.42	0.50
1:A:43:ARG:NH2	1:A:342:SER:H	2.10	0.50
1:A:66:ASN:HB3	1:A:70:PHE:CD2	2.46	0.50
1:A:429:TYR:CG	1:A:433:ARG:HG2	2.46	0.50
1:A:707:LEU:HD12	1:A:707:LEU:N	2.26	0.50
1:B:148:LEU:HG	1:B:233:PHE:HE1	1.77	0.50
1:B:504:LEU:HD11	1:B:554:GLU:CD	2.32	0.50
1:C:355:ILE:HA	1:C:358:LEU:HG	1.94	0.50
1:D:43:ARG:NH2	1:D:342:SER:H	2.10	0.50
1:D:366:ILE:O	1:D:372:PHE:CD2	2.64	0.50
1:D:371:SER:OG	1:D:576:LEU:N	2.42	0.50
2:F:348:VAL:HA	2:F:351:VAL:HB	1.92	0.50
2:H:331:LEU:HB3	2:H:336:HIS:CG	2.47	0.50
2:H:410:GLY:O	2:H:414:SER:CB	2.59	0.50
1:A:202:LYS:HB2	1:A:244:PHE:CE1	2.47	0.50
1:B:155:LEU:HD12	1:B:198:LYS:CD	2.42	0.50
1:B:364:GLU:HA	1:B:367:ARG:HD2	1.93	0.50
1:B:597:ARG:NH2	1:B:708:THR:OG1	2.45	0.50
1:C:100:ILE:CG1	1:C:241:LEU:HD21	2.42	0.50
1:C:102:THR:HA	1:C:247:ILE:HG23	1.94	0.50
1:D:403:GLU:O	1:D:407:VAL:HG23	2.12	0.50
2:E:311:ILE:HD11	2:E:421:ILE:HG23	1.93	0.50
2:E:420:LEU:HD12	2:E:421:ILE:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:420:LEU:HD21	2:E:443:TRP:CH2	2.47	0.50
2:F:352:LEU:CD2	2:F:369:ILE:HG23	2.42	0.50
2:G:320:ARG:NH2	2:G:457:GLU:N	2.60	0.50
2:H:348:VAL:HA	2:H:351:VAL:HB	1.93	0.50
1:A:645:ASN:OD1	1:A:648:ASP:HB2	2.11	0.50
1:B:102:THR:OG1	1:B:273:ILE:HG12	2.11	0.50
1:B:152:ILE:HG12	1:B:198:LYS:H	1.76	0.50
1:B:306:VAL:O	1:B:310:LEU:HD13	2.11	0.50
1:C:81:HIS:CE1	1:C:214:PRO:HG3	2.46	0.50
1:C:219:LEU:HB2	1:C:222:MET:CG	2.41	0.50
1:C:478:VAL:O	1:C:482:TYR:HD2	1.95	0.50
1:C:482:TYR:O	1:C:487:LEU:N	2.34	0.50
1:C:548:LYS:O	1:C:551:VAL:N	2.45	0.50
1:D:148:LEU:HA	1:D:151:LEU:CD2	2.42	0.50
1:D:155:LEU:HD12	1:D:198:LYS:CD	2.42	0.50
1:D:386:ALA:O	1:D:390:ASN:O	2.29	0.50
1:D:553:ARG:O	1:D:557:VAL:HG23	2.11	0.50
1:A:148:LEU:O	1:A:151:LEU:HB3	2.12	0.50
1:A:219:LEU:HB2	1:A:222:MET:HG2	1.93	0.50
1:A:405:LEU:HD23	1:A:574:GLN:HB2	1.94	0.50
1:C:288:VAL:CG2	1:C:292:LEU:HD12	2.42	0.50
1:D:222:MET:HG3	1:D:250:PHE:HD1	1.75	0.50
1:D:329:GLN:O	1:D:332:LEU:N	2.44	0.50
2:E:355:ILE:O	2:E:360:LEU:HB2	2.12	0.50
2:F:339:ILE:HD13	2:F:351:VAL:HG22	1.93	0.50
1:A:369:LEU:HD13	1:A:370:PRO:O	2.12	0.50
1:A:379:GLN:CG	1:A:380:ALA:N	2.51	0.50
1:A:418:CYS:O	1:A:422:PHE:CD2	2.65	0.50
1:A:446:ASN:HA	1:A:569:LEU:HD21	1.94	0.50
1:A:504:LEU:HD11	1:A:554:GLU:CD	2.32	0.50
1:A:683:ARG:HD2	2:G:458:THR:OG1	2.12	0.50
1:B:306:VAL:HG12	1:B:585:ALA:HB2	1.93	0.50
1:B:404:ASN:O	1:B:407:VAL:HB	2.12	0.50
1:B:418:CYS:O	1:B:422:PHE:CD2	2.65	0.50
1:C:229:VAL:HG13	1:C:233:PHE:CE2	2.45	0.50
1:C:448:TRP:CZ2	1:C:559:PHE:HB3	2.45	0.50
1:C:604:LEU:CD1	1:C:693:PHE:CZ	2.95	0.50
1:D:493:ARG:O	1:D:497:PHE:CD2	2.64	0.50
2:E:298:PHE:CD2	2:E:330:MET:HG2	2.46	0.50
2:G:325:ARG:O	2:G:329:THR:N	2.39	0.50
2:G:369:ILE:HG12	2:G:372:GLN:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:320:ARG:NH2	2:H:457:GLU:N	2.60	0.50
1:A:244:PHE:O	1:A:246:LEU:N	2.41	0.49
1:A:330:LEU:CD1	1:A:592:LEU:HD21	2.42	0.49
1:A:645:ASN:OD1	1:A:648:ASP:N	2.37	0.49
1:B:297:GLN:O	1:D:353:ARG:NH2	2.44	0.49
1:B:418:CYS:SG	1:B:422:PHE:HE2	2.35	0.49
1:B:497:PHE:O	1:B:501:PHE:HD2	1.95	0.49
1:B:588:LEU:O	1:B:592:LEU:N	2.46	0.49
1:C:63:GLU:O	1:C:66:ASN:HB2	2.11	0.49
1:C:330:LEU:CD1	1:C:592:LEU:HD21	2.42	0.49
2:F:355:ILE:O	2:F:360:LEU:HB2	2.12	0.49
2:G:311:ILE:HD11	2:G:421:ILE:HG23	1.94	0.49
2:G:312:VAL:CG2	2:G:443:TRP:CE3	2.95	0.49
2:G:339:ILE:HD13	2:G:351:VAL:HG13	1.94	0.49
1:A:372:PHE:HA	1:A:375:TYR:HB3	1.94	0.49
1:A:461:ARG:HG2	1:A:552:LEU:CD2	2.42	0.49
1:A:494:ILE:O	1:A:498:LEU:HG	2.12	0.49
1:B:128:ASN:O	1:B:129:VAL:HB	2.12	0.49
1:B:255:SER:HB2	1:B:256:PRO:HD3	1.94	0.49
1:C:562:CYS:CB	1:C:567:TYR:CE2	2.90	0.49
1:C:562:CYS:C	1:C:567:TYR:HD2	2.15	0.49
2:E:317:GLY:O	2:E:319:LYS:NZ	2.44	0.49
2:G:302:MET:HA	2:G:305:LEU:HD12	1.94	0.49
1:B:125:LEU:HD22	1:B:131:PRO:HG3	1.94	0.49
1:B:148:LEU:HA	1:B:151:LEU:HD22	1.95	0.49
1:B:252:ILE:HD13	1:B:259:ILE:HD11	1.94	0.49
1:B:267:VAL:O	1:B:271:LEU:HG	2.13	0.49
1:B:314:PHE:HA	1:B:318:ASP:O	2.12	0.49
1:B:419:LEU:HB2	1:B:567:TYR:CE1	2.47	0.49
1:D:134:VAL:HG22	1:D:154:GLN:HB3	1.93	0.49
1:D:482:TYR:HA	1:D:486:HIS:ND1	2.28	0.49
1:D:560:ILE:HA	1:D:564:VAL:HB	1.93	0.49
2:F:311:ILE:HD11	2:F:421:ILE:HG23	1.93	0.49
1:A:71:ASP:O	1:A:75:GLU:CG	2.61	0.49
1:A:417:ARG:HD3	1:A:482:TYR:CE1	2.47	0.49
1:B:152:ILE:HG12	1:B:198:LYS:HB2	1.94	0.49
1:B:302:ILE:HG21	1:B:306:VAL:HG22	1.93	0.49
1:B:347:ASN:O	1:B:351:ALA:N	2.35	0.49
1:C:325:ILE:HG22	1:C:326:LYS:N	2.27	0.49
1:C:553:ARG:O	1:C:557:VAL:HG23	2.12	0.49
1:C:591:HIS:O	2:H:444:LEU:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:117:THR:O	1:D:121:LEU:N	2.45	0.49
2:E:333:ASP:HB2	2:E:336:HIS:HE2	1.78	0.49
2:G:410:GLY:HA2	2:G:441:PHE:CE1	2.48	0.49
1:A:457:LEU:CG	1:A:559:PHE:CZ	2.96	0.49
1:B:682:ILE:HD11	2:E:465:LEU:HD12	1.93	0.49
1:C:122:THR:HA	1:C:133:VAL:CG2	2.43	0.49
1:C:132:TYR:O	1:C:155:LEU:HD21	2.12	0.49
1:C:281:CYS:HB3	1:C:319:PHE:O	2.12	0.49
1:D:202:LYS:HB2	1:D:244:PHE:CE1	2.42	0.49
1:D:229:VAL:HG13	1:D:233:PHE:CE2	2.47	0.49
1:D:419:LEU:HB2	1:D:567:TYR:CE1	2.47	0.49
1:D:480:LYS:O	1:D:484:GLU:CG	2.61	0.49
2:E:412:LEU:O	2:E:415:LEU:N	2.46	0.49
2:F:411:GLN:O	2:F:415:LEU:N	2.36	0.49
2:F:455:THR:O	2:F:459:SER:N	2.45	0.49
2:H:311:ILE:HD11	2:H:421:ILE:HG23	1.94	0.49
1:A:152:ILE:HG12	1:A:198:LYS:HG3	1.95	0.49
1:A:252:ILE:HD13	1:A:259:ILE:HD11	1.95	0.49
1:B:100:ILE:O	1:B:270:LEU:O	2.30	0.49
1:C:430:PRO:HB2	1:C:452:GLU:HB3	1.95	0.49
1:D:476:PHE:CZ	1:D:501:PHE:CG	3.00	0.49
2:F:397:SER:HB2	2:F:400:LEU:H	1.78	0.49
2:G:355:ILE:O	2:G:360:LEU:HB2	2.12	0.49
1:A:555:ASN:C	1:A:559:PHE:CD2	2.86	0.49
1:B:401:LEU:HD22	1:B:575:PRO:CG	2.42	0.49
1:C:349:PRO:O	1:C:353:ARG:HG3	2.12	0.49
1:C:372:PHE:CE2	1:C:376:VAL:HG21	2.47	0.49
1:C:418:CYS:SG	1:C:422:PHE:HE2	2.36	0.49
1:C:453:TYR:OH	1:C:559:PHE:HD1	1.94	0.49
1:C:453:TYR:OH	1:C:559:PHE:CD1	2.65	0.49
1:C:695:LYS:HD2	1:C:707:LEU:HD11	1.95	0.49
1:D:132:TYR:O	1:D:155:LEU:HD21	2.12	0.49
1:D:152:ILE:HD12	1:D:194:LYS:O	2.13	0.49
2:F:335:ILE:HG22	2:F:388:LEU:HA	1.93	0.49
1:A:199:MET:HE2	1:A:244:PHE:HE2	1.77	0.49
1:A:222:MET:SD	1:A:225:PHE:CE2	3.06	0.49
1:A:478:VAL:O	1:A:482:TYR:HD2	1.96	0.49
1:B:683:ARG:NE	1:B:683:ARG:HA	2.28	0.49
1:C:301:LYS:N	1:C:580:VAL:O	2.41	0.49
1:C:560:ILE:HA	1:C:564:VAL:HB	1.95	0.49
1:D:138:ALA:HB2	1:D:221:ASP:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:337:TYR:OH	2:F:307:LEU:HD11	2.13	0.49
1:D:347:ASN:HB3	1:D:349:PRO:HD2	1.94	0.49
1:D:415:VAL:HG12	1:D:567:TYR:CE2	2.48	0.49
1:D:504:LEU:HD21	1:D:550:GLU:HB3	1.94	0.49
1:A:148:LEU:HD23	1:A:151:LEU:HD22	1.93	0.49
1:A:347:ASN:ND2	1:C:350:GLU:OE2	2.45	0.49
1:A:501:PHE:CE1	1:A:554:GLU:CD	2.86	0.49
1:B:272:CYS:SG	1:B:272:CYS:O	2.71	0.49
1:B:349:PRO:HG2	1:D:347:ASN:CB	2.43	0.49
1:B:554:GLU:O	1:B:558:ASN:N	2.41	0.49
1:C:222:MET:SD	1:C:225:PHE:CE2	3.06	0.49
1:C:447:ILE:HG22	1:C:453:TYR:CD1	2.47	0.49
1:D:497:PHE:CE1	1:D:557:VAL:CG1	2.96	0.49
1:D:500:GLN:O	1:D:503:SER:OG	2.24	0.49
1:D:683:ARG:NE	1:D:683:ARG:HA	2.27	0.49
2:F:390:LEU:HD23	2:F:418:ILE:HD12	1.93	0.49
2:G:398:GLN:HG3	2:G:401:ARG:HG3	1.95	0.49
1:A:49:LEU:HD11	1:C:49:LEU:HD21	1.95	0.49
1:A:293:LEU:HD21	1:A:328:LEU:HD13	1.95	0.49
1:A:306:VAL:HG12	1:A:585:ALA:HB2	1.94	0.49
1:A:480:LYS:NZ	1:A:502:GLN:HG3	2.28	0.49
1:B:312:ASN:O	1:B:316:TYR:HB2	2.13	0.49
1:C:50:ILE:HG12	1:C:298:PHE:CD1	2.47	0.49
1:C:152:ILE:CG2	1:C:198:LYS:N	2.75	0.49
1:C:198:LYS:O	1:C:201:SER:N	2.46	0.49
1:D:144:MET:SD	1:D:232:ASP:HB2	2.53	0.49
1:D:569:LEU:CB	1:D:571:PRO:HD2	2.43	0.49
2:H:441:PHE:HB3	2:H:443:TRP:CE2	2.48	0.49
1:A:49:LEU:HD22	1:C:45:GLU:HG2	1.94	0.48
1:A:132:TYR:O	1:A:155:LEU:CD2	2.61	0.48
1:A:199:MET:HE2	1:A:244:PHE:CE2	2.48	0.48
1:A:303:ASN:ND2	1:A:581:TYR:HB3	2.28	0.48
1:A:683:ARG:HH12	2:G:461:GLU:HB2	1.78	0.48
1:B:453:TYR:HH	1:B:559:PHE:HE1	1.52	0.48
1:B:480:LYS:NZ	1:B:502:GLN:HG3	2.28	0.48
1:C:420:HIS:CG	1:C:435:ILE:HG12	2.47	0.48
1:D:202:LYS:HE3	1:D:215:VAL:HG21	1.95	0.48
1:D:355:ILE:HA	1:D:358:LEU:HG	1.95	0.48
1:A:386:ALA:O	1:A:390:ASN:O	2.31	0.48
1:A:387:LEU:HA	1:A:394:LEU:HB2	1.95	0.48
1:A:393:TYR:O	1:A:397:GLU:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:446:ASN:OD1	1:A:569:LEU:HD11	2.13	0.48
1:B:368:ARG:O	1:B:373:ARG:HG3	2.12	0.48
1:B:387:LEU:HD22	1:B:394:LEU:HD13	1.96	0.48
1:B:417:ARG:C	1:B:479:PHE:CE1	2.86	0.48
1:B:497:PHE:O	1:B:501:PHE:CD2	2.66	0.48
1:C:98:ARG:HA	1:C:238:SER:O	2.12	0.48
1:D:404:ASN:CB	1:D:574:GLN:OE1	2.61	0.48
2:E:320:ARG:NH2	2:E:457:GLU:N	2.61	0.48
1:A:100:ILE:HG12	1:A:241:LEU:HD21	1.95	0.48
1:A:341:LEU:HD21	1:A:365:ASN:CB	2.43	0.48
1:A:415:VAL:O	1:A:418:CYS:HB3	2.13	0.48
1:A:478:VAL:O	1:A:482:TYR:CD2	2.66	0.48
1:D:420:HIS:CG	1:D:435:ILE:HG12	2.47	0.48
1:D:447:ILE:HG22	1:D:453:TYR:CG	2.48	0.48
1:D:494:ILE:HA	1:D:497:PHE:HD2	1.77	0.48
2:G:410:GLY:O	2:G:414:SER:CB	2.61	0.48
2:G:446:TYR:CB	2:G:448:THR:HG23	2.43	0.48
2:H:455:THR:HA	2:H:458:THR:HB	1.96	0.48
1:A:263:LEU:HD13	1:A:271:LEU:HD11	1.96	0.48
1:A:355:ILE:HA	1:A:358:LEU:HG	1.94	0.48
1:A:382:GLU:C	1:A:384:GLN:N	2.67	0.48
1:B:105:LEU:O	1:B:250:PHE:O	2.32	0.48
1:B:494:ILE:O	1:B:498:LEU:HG	2.14	0.48
1:B:683:ARG:NH1	2:E:461:GLU:HB2	2.28	0.48
1:C:234:ILE:O	1:C:238:SER:HB3	2.14	0.48
1:D:152:ILE:HA	1:D:198:LYS:HG3	1.95	0.48
1:D:199:MET:HG2	1:D:244:PHE:CE2	2.48	0.48
1:D:209:GLN:HE22	1:D:213:PRO:HG3	1.78	0.48
2:E:347:SER:N	2:E:350:SER:HG	2.10	0.48
2:E:410:GLY:HA2	2:E:441:PHE:CE1	2.48	0.48
2:E:446:TYR:CB	2:E:448:THR:HG23	2.42	0.48
2:H:355:ILE:O	2:H:360:LEU:HB2	2.13	0.48
1:A:229:VAL:HG13	1:A:233:PHE:CE2	2.49	0.48
1:A:387:LEU:HD21	1:A:397:GLU:CD	2.32	0.48
1:A:552:LEU:O	1:A:556:VAL:HG23	2.13	0.48
1:C:293:LEU:HD21	1:C:328:LEU:HD13	1.94	0.48
1:C:334:GLU:HG3	1:C:582:PHE:CZ	2.48	0.48
1:C:404:ASN:C	1:C:574:GLN:OE1	2.51	0.48
1:D:683:ARG:CZ	2:F:458:THR:HG23	2.44	0.48
2:G:332:GLN:O	2:G:336:HIS:CD2	2.66	0.48
1:A:325:ILE:HG22	1:A:326:LYS:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:347:ASN:O	1:A:351:ALA:N	2.34	0.48
1:A:475:CYS:O	1:A:479:PHE:CB	2.61	0.48
1:B:559:PHE:O	1:B:564:VAL:N	2.32	0.48
1:C:107:LEU:HD23	1:C:278:SER:HB2	1.96	0.48
1:C:244:PHE:CD2	1:C:246:LEU:HD12	2.39	0.48
1:C:252:ILE:HD13	1:C:259:ILE:HD11	1.96	0.48
1:D:126:GLN:HB3	1:D:162:ILE:HD11	1.94	0.48
1:D:478:VAL:O	1:D:482:TYR:CD2	2.66	0.48
1:D:552:LEU:O	1:D:556:VAL:HG23	2.13	0.48
2:E:397:SER:HB2	2:E:400:LEU:H	1.79	0.48
1:A:285:LEU:O	1:A:288:VAL:HG12	2.13	0.48
1:A:402:LEU:HA	1:A:405:LEU:HD12	1.96	0.48
1:A:417:ARG:C	1:A:479:PHE:CE1	2.87	0.48
1:A:480:LYS:O	1:A:484:GLU:CG	2.61	0.48
1:B:152:ILE:HA	1:B:198:LYS:HG3	1.96	0.48
1:B:226:ALA:HB3	1:B:229:VAL:HB	1.96	0.48
1:B:372:PHE:HA	1:B:375:TYR:HB3	1.95	0.48
1:B:482:TYR:HA	1:B:486:HIS:ND1	2.28	0.48
1:C:42:LEU:HD13	1:C:354:ARG:NH1	2.28	0.48
1:C:369:LEU:HD13	1:C:370:PRO:O	2.13	0.48
1:C:497:PHE:HE1	1:C:557:VAL:HG13	1.79	0.48
2:E:295:GLU:HG2	2:E:298:PHE:CE2	2.49	0.48
2:F:320:ARG:NH2	2:F:457:GLU:N	2.61	0.48
2:F:400:LEU:HD22	2:F:409:ILE:CD1	2.44	0.48
2:H:291:ASN:O	2:H:295:GLU:HG3	2.13	0.48
1:A:255:SER:HB2	1:A:256:PRO:HD3	1.95	0.48
1:A:302:ILE:CG2	1:A:307:LEU:HG	2.44	0.48
1:A:418:CYS:SG	1:A:422:PHE:HE2	2.37	0.48
1:A:590:GLU:O	2:G:445:TRP:O	2.32	0.48
1:B:100:ILE:HG12	1:B:241:LEU:HD21	1.95	0.48
1:B:461:ARG:HG2	1:B:552:LEU:CD2	2.44	0.48
1:B:483:CYS:HA	1:B:487:LEU:O	2.14	0.48
1:C:79:LYS:O	1:C:83:GLY:N	2.36	0.48
1:C:117:THR:O	1:C:121:LEU:N	2.47	0.48
2:G:373:LEU:O	2:G:377:VAL:HB	2.14	0.48
2:G:382:GLU:O	2:H:383:ASP:OD1	2.32	0.48
2:H:339:ILE:HD13	2:H:351:VAL:HG22	1.95	0.48
1:A:126:GLN:HB3	1:A:162:ILE:HD11	1.95	0.48
1:B:230:LEU:HD11	1:B:263:LEU:HD22	1.94	0.48
1:B:297:GLN:HA	1:D:353:ARG:CZ	2.43	0.48
1:C:50:ILE:HG12	1:C:298:PHE:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:128:ASN:O	1:C:129:VAL:HB	2.14	0.48
1:C:138:ALA:HB2	1:C:221:ASP:O	2.14	0.48
1:C:206:THR:HB	1:C:209:GLN:HG2	1.96	0.48
1:C:386:ALA:O	1:C:390:ASN:O	2.31	0.48
1:C:414:LEU:HD13	1:C:494:ILE:HD11	1.94	0.48
1:D:151:LEU:CD1	1:D:198:LYS:HD2	2.43	0.48
1:D:341:LEU:HD21	1:D:365:ASN:CB	2.44	0.48
1:D:342:SER:OG	1:D:579:VAL:HG13	2.14	0.48
2:F:353:ASN:OD1	2:F:365:THR:N	2.45	0.48
2:F:369:ILE:HG21	2:F:408:ILE:CD1	2.43	0.48
2:F:420:LEU:HD21	2:F:443:TRP:CH2	2.49	0.48
2:H:297:LEU:HB3	2:H:301:TRP:NE1	2.28	0.48
2:H:339:ILE:CD1	2:H:351:VAL:HG13	2.44	0.48
2:H:352:LEU:CD2	2:H:369:ILE:HG23	2.44	0.48
1:A:151:LEU:CD1	1:A:198:LYS:HD2	2.44	0.48
1:A:226:ALA:HB3	1:A:229:VAL:HB	1.96	0.48
1:B:286:THR:HG22	1:B:436:ARG:HE	1.79	0.48
1:B:555:ASN:O	1:B:559:PHE:CD2	2.67	0.48
1:C:420:HIS:NE2	1:C:435:ILE:HA	2.28	0.48
1:C:552:LEU:O	1:C:556:VAL:HG23	2.14	0.48
1:C:683:ARG:CZ	1:C:686:SER:OG	2.62	0.48
1:D:417:ARG:C	1:D:479:PHE:CE1	2.87	0.48
1:D:476:PHE:O	1:D:480:LYS:CB	2.61	0.48
2:E:369:ILE:HG12	2:E:372:GLN:OE1	2.13	0.48
2:F:412:LEU:HB3	2:F:418:ILE:CD1	2.43	0.48
2:G:352:LEU:CD2	2:G:369:ILE:HG23	2.43	0.48
1:A:497:PHE:O	1:A:501:PHE:HD2	1.97	0.47
1:B:229:VAL:HG13	1:B:233:PHE:CE2	2.49	0.47
1:B:326:LYS:HA	1:B:329:GLN:HE21	1.78	0.47
1:B:349:PRO:O	1:B:353:ARG:HG3	2.14	0.47
1:B:371:SER:O	1:B:575:PRO:HB3	2.14	0.47
1:B:384:GLN:O	1:B:387:LEU:HB2	2.13	0.47
1:C:255:SER:HB2	1:C:256:PRO:HD3	1.96	0.47
1:C:420:HIS:CE1	1:C:435:ILE:HG23	2.49	0.47
1:C:632:ILE:O	1:C:636:LEU:HG	2.14	0.47
1:D:476:PHE:HB3	1:D:480:LYS:CE	2.44	0.47
2:F:317:GLY:O	2:F:319:LYS:NZ	2.47	0.47
2:H:298:PHE:HB3	2:H:330:MET:HG3	1.96	0.47
2:H:410:GLY:HA2	2:H:441:PHE:CE1	2.49	0.47
1:A:326:LYS:HA	1:A:329:GLN:HE21	1.79	0.47
1:A:347:ASN:CG	1:C:350:GLU:HG3	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:588:LEU:O	1:A:592:LEU:N	2.48	0.47
1:A:690:LEU:O	2:G:426:HIS:CA	2.62	0.47
1:B:341:LEU:HD21	1:B:365:ASN:CB	2.44	0.47
1:B:352:LYS:HG2	1:B:355:ILE:HD12	1.95	0.47
1:B:355:ILE:HA	1:B:358:LEU:HG	1.95	0.47
1:B:478:VAL:O	1:B:482:TYR:HD2	1.96	0.47
1:C:440:CYS:O	1:C:444:GLU:HG3	2.15	0.47
1:C:478:VAL:O	1:C:482:TYR:CD2	2.67	0.47
1:D:371:SER:O	1:D:575:PRO:HA	2.14	0.47
2:F:420:LEU:HD12	2:F:421:ILE:N	2.29	0.47
1:A:404:ASN:O	1:A:407:VAL:HB	2.14	0.47
1:A:646:LEU:HA	1:A:649:TRP:HB3	1.94	0.47
1:A:691:LEU:O	2:G:427:LEU:HG	2.14	0.47
1:A:695:LYS:HG3	1:A:696:PRO:HD2	1.95	0.47
1:B:349:PRO:HG2	1:D:347:ASN:HB3	1.95	0.47
1:B:694:ILE:HD13	1:B:704:VAL:HG22	1.96	0.47
2:G:298:PHE:CD2	2:G:330:MET:HG2	2.49	0.47
2:G:320:ARG:HH22	2:G:457:GLU:CA	2.27	0.47
2:H:353:ASN:OD1	2:H:365:THR:N	2.47	0.47
1:A:288:VAL:CG2	1:A:292:LEU:HD12	2.43	0.47
1:B:340:PRO:HB2	1:B:362:GLN:HE21	1.79	0.47
1:B:386:ALA:O	1:B:390:ASN:O	2.33	0.47
1:B:478:VAL:O	1:B:482:TYR:CD2	2.68	0.47
1:C:337:TYR:OH	2:H:307:LEU:HD11	2.14	0.47
1:C:422:PHE:HE1	1:C:472:LEU:HD22	1.78	0.47
2:F:327:ARG:HA	2:F:331:LEU:HB2	1.95	0.47
2:F:395:LEU:HD12	2:F:400:LEU:HD13	1.95	0.47
2:G:362:HIS:O	2:G:363:MET:HG2	2.15	0.47
2:G:409:ILE:HG22	2:G:441:PHE:CE1	2.49	0.47
2:G:425:ASP:OD1	2:G:454:TYR:OH	2.32	0.47
2:H:428:ASN:O	2:H:431:LEU:CB	2.61	0.47
1:A:102:THR:HA	1:A:247:ILE:HG23	1.97	0.47
1:A:199:MET:HG2	1:A:244:PHE:CE2	2.50	0.47
1:B:81:HIS:NE2	1:B:214:PRO:HB3	2.30	0.47
1:B:329:GLN:O	1:B:332:LEU:N	2.47	0.47
1:B:387:LEU:HA	1:B:394:LEU:HB2	1.95	0.47
1:B:649:TRP:HZ3	1:B:704:VAL:HB	1.79	0.47
1:C:41:LYS:HD2	1:C:44:PHE:HE2	1.80	0.47
1:C:70:PHE:HA	1:C:73:LEU:HB2	1.96	0.47
1:C:152:ILE:CG1	1:C:198:LYS:H	2.26	0.47
1:D:71:ASP:O	1:D:75:GLU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:267:VAL:O	1:D:271:LEU:HG	2.14	0.47
1:D:422:PHE:HE1	1:D:472:LEU:HD22	1.79	0.47
2:F:410:GLY:HA2	2:F:441:PHE:CE1	2.49	0.47
1:A:100:ILE:O	1:A:271:LEU:HA	2.14	0.47
1:B:148:LEU:HD23	1:B:151:LEU:HD22	1.94	0.47
1:C:219:LEU:CB	1:C:222:MET:HG2	2.44	0.47
1:C:306:VAL:O	1:C:310:LEU:HB2	2.14	0.47
1:C:554:GLU:O	1:C:558:ASN:N	2.42	0.47
1:D:423:THR:CG2	1:D:438:LEU:HD21	2.45	0.47
1:D:472:LEU:O	1:D:476:PHE:CD2	2.67	0.47
1:D:497:PHE:O	1:D:501:PHE:HD2	1.97	0.47
2:H:409:ILE:HG22	2:H:441:PHE:CE1	2.49	0.47
1:A:49:LEU:CD2	1:C:45:GLU:HG2	2.44	0.47
1:A:252:ILE:CD1	1:A:259:ILE:HD11	2.44	0.47
1:A:419:LEU:HD23	1:A:438:LEU:HD23	1.97	0.47
1:A:457:LEU:HG	1:A:559:PHE:HZ	1.77	0.47
1:A:555:ASN:HA	1:A:558:ASN:HB2	1.97	0.47
1:B:144:MET:SD	1:B:232:ASP:HB2	2.55	0.47
1:B:148:LEU:HB2	1:B:195:THR:HG22	1.97	0.47
1:B:202:LYS:CD	1:B:244:PHE:CE1	2.96	0.47
1:B:310:LEU:O	1:B:313:ILE:N	2.47	0.47
1:B:386:ALA:HB1	1:B:393:TYR:CB	2.45	0.47
1:B:688:LEU:HB3	1:B:694:ILE:HG13	1.97	0.47
1:C:341:LEU:HD21	1:C:365:ASN:CB	2.45	0.47
1:C:387:LEU:HD21	1:C:397:GLU:CD	2.34	0.47
1:C:422:PHE:CE1	1:C:472:LEU:HD22	2.50	0.47
1:C:497:PHE:O	1:C:501:PHE:HD2	1.98	0.47
1:C:497:PHE:CD1	1:C:557:VAL:CG1	2.97	0.47
1:D:51:TRP:CH2	1:D:55:LYS:HE3	2.50	0.47
1:D:152:ILE:HG12	1:D:198:LYS:HG3	1.96	0.47
1:D:404:ASN:O	1:D:407:VAL:HB	2.13	0.47
1:D:461:ARG:HG2	1:D:552:LEU:HD21	1.96	0.47
1:D:472:LEU:O	1:D:475:CYS:N	2.46	0.47
2:G:327:ARG:HA	2:G:331:LEU:HB2	1.97	0.47
2:H:340:ASN:HB3	2:H:342:PHE:CZ	2.49	0.47
2:H:369:ILE:HG21	2:H:408:ILE:CD1	2.45	0.47
1:A:405:LEU:HD21	1:A:575:PRO:O	2.15	0.47
1:B:381:SER:O	1:B:384:GLN:HB3	2.15	0.47
1:B:563:LEU:HA	1:B:567:TYR:HD2	1.80	0.47
1:B:563:LEU:HA	1:B:567:TYR:CD2	2.49	0.47
1:C:250:PHE:HB3	1:C:252:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:355:ILE:O	1:C:395:LYS:HE3	2.15	0.47
1:C:366:ILE:O	1:C:372:PHE:CD2	2.68	0.47
1:C:404:ASN:O	1:C:407:VAL:HB	2.14	0.47
1:D:100:ILE:HG12	1:D:241:LEU:HD21	1.97	0.47
1:D:420:HIS:CE1	1:D:435:ILE:HG23	2.49	0.47
2:G:412:LEU:O	2:G:415:LEU:N	2.47	0.47
1:A:148:LEU:HA	1:A:151:LEU:CD2	2.45	0.47
1:A:645:ASN:HA	1:A:703:HIS:CE1	2.49	0.47
1:B:306:VAL:O	1:B:310:LEU:HB2	2.15	0.47
1:B:409:HIS:HA	1:B:412:TYR:CD2	2.50	0.47
1:C:148:LEU:HA	1:C:151:LEU:CD2	2.45	0.47
1:C:326:LYS:HA	1:C:329:GLN:HE21	1.80	0.47
1:D:226:ALA:HB3	1:D:229:VAL:HB	1.96	0.47
1:D:646:LEU:HA	1:D:649:TRP:HB3	1.97	0.47
2:H:342:PHE:CE1	2:H:343:PHE:CE1	3.02	0.47
1:A:44:PHE:HA	1:A:47:TYR:HB3	1.96	0.47
1:A:422:PHE:CE1	1:A:472:LEU:HD22	2.50	0.47
1:A:555:ASN:O	1:A:559:PHE:CD2	2.67	0.47
1:B:257:ILE:HG22	1:B:261:ARG:NE	2.30	0.47
1:B:282:LYS:O	1:B:286:THR:HG23	2.15	0.47
1:B:325:ILE:HG22	1:B:326:LYS:N	2.29	0.47
1:B:555:ASN:O	1:B:558:ASN:N	2.48	0.47
1:C:474:LYS:O	1:C:478:VAL:HG23	2.15	0.47
1:C:555:ASN:HA	1:C:558:ASN:HB2	1.97	0.47
1:D:152:ILE:CD1	1:D:195:THR:C	2.83	0.47
1:D:202:LYS:CE	1:D:215:VAL:HG23	2.45	0.47
1:D:417:ARG:HD3	1:D:482:TYR:CE1	2.49	0.47
1:D:646:LEU:HD12	1:D:702:ASP:HB3	1.97	0.47
2:F:327:ARG:HE	2:F:391:LEU:HD12	1.79	0.47
2:F:377:VAL:O	2:F:381:LYS:N	2.41	0.47
2:F:441:PHE:HB3	2:F:443:TRP:CE2	2.50	0.47
2:G:331:LEU:HD11	2:G:391:LEU:CD1	2.45	0.47
2:H:362:HIS:O	2:H:363:MET:HG2	2.15	0.47
1:A:234:ILE:HG21	1:A:267:VAL:HG13	1.96	0.46
1:A:267:VAL:O	1:A:271:LEU:HG	2.15	0.46
1:A:401:LEU:HD22	1:A:575:PRO:HG3	1.97	0.46
1:A:420:HIS:O	1:A:421:LYS:C	2.50	0.46
1:A:695:LYS:HD2	1:A:707:LEU:CD1	2.45	0.46
1:B:148:LEU:HA	1:B:151:LEU:CD2	2.44	0.46
1:B:254:THR:CB	1:B:258:ILE:HD12	2.44	0.46
1:C:67:LYS:O	1:C:71:ASP:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:148:LEU:HD23	1:C:151:LEU:HD22	1.97	0.46
1:D:421:LYS:NZ	1:D:479:PHE:CE1	2.79	0.46
1:D:648:ASP:HA	1:D:651:GLU:HB2	1.97	0.46
2:E:332:GLN:O	2:E:336:HIS:CD2	2.68	0.46
2:F:332:GLN:O	2:F:336:HIS:CD2	2.68	0.46
2:H:373:LEU:CD2	2:H:412:LEU:HD21	2.43	0.46
2:H:443:TRP:HB2	2:H:445:TRP:NE1	2.30	0.46
1:A:297:GLN:O	1:C:353:ARG:CZ	2.63	0.46
1:A:306:VAL:O	1:A:310:LEU:HD13	2.15	0.46
1:B:694:ILE:HB	1:B:704:VAL:HG13	1.97	0.46
1:C:81:HIS:NE2	1:C:214:PRO:HB3	2.30	0.46
1:C:148:LEU:O	1:C:151:LEU:HB3	2.14	0.46
1:C:244:PHE:CG	1:C:246:LEU:HG	2.37	0.46
1:C:324:PHE:CE2	1:C:328:LEU:HD11	2.49	0.46
1:C:364:GLU:HA	1:C:367:ARG:HD2	1.97	0.46
1:C:476:PHE:O	1:C:480:LYS:CB	2.63	0.46
1:C:645:ASN:OD1	1:C:648:ASP:HB2	2.15	0.46
1:D:72:ASN:HA	1:D:75:GLU:HB2	1.97	0.46
1:D:77:LEU:CD2	1:D:247:ILE:HG21	2.46	0.46
1:D:155:LEU:CG	1:D:198:LYS:HE2	2.45	0.46
1:D:222:MET:HG3	1:D:250:PHE:CE1	2.50	0.46
2:F:333:ASP:HB2	2:F:336:HIS:HE2	1.79	0.46
2:F:339:ILE:CD1	2:F:351:VAL:HG13	2.45	0.46
2:F:340:ASN:O	2:F:343:PHE:HB2	2.15	0.46
2:G:325:ARG:HA	2:G:328:THR:OG1	2.15	0.46
2:H:331:LEU:HD11	2:H:391:LEU:CD1	2.44	0.46
1:A:50:ILE:HG12	1:A:298:PHE:CE1	2.50	0.46
1:A:101:PRO:HB3	1:A:272:CYS:SG	2.55	0.46
1:A:125:LEU:HB3	1:A:133:VAL:HG11	1.97	0.46
1:A:222:MET:HG3	1:A:250:PHE:CE1	2.50	0.46
1:B:131:PRO:CB	1:B:214:PRO:O	2.64	0.46
1:B:151:LEU:CD1	1:B:198:LYS:HD2	2.45	0.46
1:B:497:PHE:HE1	1:B:557:VAL:HG13	1.80	0.46
1:C:152:ILE:HG21	1:C:197:PRO:HD2	1.98	0.46
1:C:155:LEU:CG	1:C:198:LYS:HE2	2.44	0.46
1:C:342:SER:OG	1:C:579:VAL:HG13	2.15	0.46
1:D:74:ILE:HD13	1:D:128:ASN:OD1	2.14	0.46
1:D:335:HIS:CE1	1:D:579:VAL:HA	2.50	0.46
1:D:352:LYS:NZ	1:D:403:GLU:OE2	2.26	0.46
2:E:311:ILE:HB	2:E:446:TYR:CE2	2.51	0.46
2:E:327:ARG:HA	2:E:331:LEU:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:331:LEU:HD11	2:E:391:LEU:CD1	2.45	0.46
2:E:453:PRO:CA	2:E:454:TYR:HB2	2.45	0.46
2:G:441:PHE:HB3	2:G:443:TRP:CE2	2.50	0.46
1:A:366:ILE:O	1:A:372:PHE:CD2	2.68	0.46
1:A:420:HIS:CG	1:A:435:ILE:HG12	2.51	0.46
1:B:71:ASP:O	1:B:75:GLU:CG	2.63	0.46
1:B:234:ILE:HG21	1:B:267:VAL:HG13	1.96	0.46
1:B:422:PHE:HE1	1:B:472:LEU:HD22	1.80	0.46
1:D:306:VAL:O	1:D:310:LEU:HD13	2.16	0.46
1:D:420:HIS:NE2	1:D:435:ILE:HA	2.30	0.46
1:D:555:ASN:C	1:D:559:PHE:CD2	2.89	0.46
2:E:396:ASP:O	2:E:401:ARG:NE	2.48	0.46
2:G:336:HIS:ND1	2:G:389:PHE:HB2	2.30	0.46
1:A:202:LYS:HE3	1:A:215:VAL:CG2	2.46	0.46
1:A:422:PHE:HE1	1:A:472:LEU:HD22	1.80	0.46
1:B:70:PHE:HA	1:B:73:LEU:HB2	1.98	0.46
1:B:151:LEU:HG	1:B:198:LYS:CD	2.45	0.46
1:C:147:PHE:HB2	1:C:233:PHE:CE1	2.51	0.46
1:C:147:PHE:CE1	1:C:225:PHE:CE1	3.04	0.46
1:C:371:SER:O	1:C:375:TYR:HB2	2.16	0.46
1:D:50:ILE:HG12	1:D:298:PHE:CE1	2.50	0.46
1:D:100:ILE:CG1	1:D:241:LEU:HD21	2.46	0.46
1:D:371:SER:O	1:D:575:PRO:HB3	2.16	0.46
1:D:401:LEU:HD22	1:D:575:PRO:HG3	1.96	0.46
2:E:410:GLY:O	2:E:414:SER:CB	2.64	0.46
2:G:317:GLY:O	2:G:319:LYS:NZ	2.49	0.46
1:A:497:PHE:HE1	1:A:557:VAL:HG13	1.80	0.46
1:B:42:LEU:O	1:B:46:THR:HG23	2.16	0.46
1:B:81:HIS:CE1	1:B:214:PRO:HG3	2.50	0.46
1:B:155:LEU:CG	1:B:198:LYS:HE2	2.45	0.46
1:B:254:THR:HB	1:B:258:ILE:HD12	1.96	0.46
1:B:420:HIS:CE1	1:B:435:ILE:HG23	2.50	0.46
1:B:422:PHE:CE1	1:B:472:LEU:HD22	2.49	0.46
1:B:569:LEU:O	1:B:573:THR:HG23	2.14	0.46
1:C:141:CYS:HB3	1:C:147:PHE:CE2	2.49	0.46
1:C:152:ILE:HG12	1:C:198:LYS:N	2.31	0.46
1:C:572:GLU:O	1:C:573:THR:HG23	2.16	0.46
1:C:695:LYS:HG3	1:C:696:PRO:CD	2.46	0.46
1:D:548:LYS:O	1:D:551:VAL:N	2.48	0.46
1:D:569:LEU:O	1:D:573:THR:HG23	2.16	0.46
1:D:682:ILE:HD11	2:F:465:LEU:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:398:GLN:HG3	2:F:401:ARG:HG3	1.97	0.46
2:F:400:LEU:O	2:F:405:SER:OG	2.34	0.46
2:F:438:GLN:O	2:F:441:PHE:O	2.33	0.46
2:H:324:GLU:O	2:H:328:THR:HG23	2.16	0.46
2:H:390:LEU:HD23	2:H:418:ILE:HD12	1.98	0.46
1:A:49:LEU:CD2	1:C:45:GLU:CG	2.94	0.46
1:A:130:THR:O	1:A:131:PRO:O	2.33	0.46
1:A:144:MET:SD	1:A:232:ASP:HB2	2.56	0.46
1:B:44:PHE:HA	1:B:47:TYR:HB3	1.98	0.46
1:B:325:ILE:O	1:B:328:LEU:N	2.49	0.46
1:B:342:SER:OG	1:B:579:VAL:HG13	2.16	0.46
1:B:371:SER:HA	1:B:374:ARG:HB2	1.97	0.46
1:C:43:ARG:NH2	1:C:342:SER:OG	2.48	0.46
1:C:71:ASP:O	1:C:75:GLU:CG	2.64	0.46
1:C:414:LEU:O	1:C:479:PHE:HE1	1.98	0.46
1:C:480:LYS:O	1:C:484:GLU:CB	2.64	0.46
1:C:497:PHE:CE1	1:C:557:VAL:CG1	2.99	0.46
1:C:646:LEU:HD12	1:C:702:ASP:HB3	1.97	0.46
1:D:202:LYS:CE	1:D:215:VAL:CG2	2.94	0.46
1:D:296:THR:CB	1:D:410:MET:SD	3.03	0.46
1:D:384:GLN:HG2	1:D:388:LEU:HD11	1.97	0.46
2:F:369:ILE:HG12	2:F:372:GLN:OE1	2.16	0.46
2:G:324:GLU:O	2:G:328:THR:HG23	2.16	0.46
2:G:331:LEU:HB3	2:G:336:HIS:CG	2.50	0.46
1:A:371:SER:O	1:A:575:PRO:HB3	2.15	0.46
1:A:416:LEU:HD12	1:A:567:TYR:HD1	1.80	0.46
1:A:569:LEU:O	1:A:573:THR:HG23	2.16	0.46
1:B:46:THR:HA	1:B:49:LEU:HD12	1.97	0.46
1:B:104:ALA:HA	1:B:250:PHE:CD2	2.50	0.46
1:B:415:VAL:HG12	1:B:567:TYR:CE2	2.50	0.46
1:C:122:THR:HA	1:C:133:VAL:HG21	1.98	0.46
1:C:335:HIS:HB2	1:C:582:PHE:CG	2.51	0.46
1:C:480:LYS:O	1:C:484:GLU:HB2	2.16	0.46
1:D:216:VAL:HG11	1:D:249:ILE:CD1	2.46	0.46
1:D:414:LEU:HG	1:D:487:LEU:HD13	1.98	0.46
1:D:450:SER:OG	1:D:452:GLU:OE1	2.31	0.46
2:G:340:ASN:O	2:G:343:PHE:HB2	2.15	0.46
2:H:377:VAL:O	2:H:381:LYS:N	2.41	0.46
1:A:302:ILE:HG22	1:A:307:LEU:HG	1.98	0.46
1:A:497:PHE:CE1	1:A:557:VAL:CG1	2.98	0.46
1:B:106:VAL:O	1:B:278:SER:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:366:ILE:O	1:B:372:PHE:CD2	2.69	0.46
1:C:72:ASN:HA	1:C:75:GLU:HB2	1.98	0.46
1:C:687:GLU:OE2	2:H:454:TYR:HB3	2.15	0.46
1:D:199:MET:HE2	1:D:244:PHE:CE2	2.50	0.46
2:F:298:PHE:HB3	2:F:330:MET:HG3	1.98	0.46
2:F:446:TYR:CB	2:F:448:THR:HG23	2.46	0.46
2:H:311:ILE:CG1	2:H:421:ILE:HG12	2.46	0.46
2:H:438:GLN:O	2:H:441:PHE:O	2.34	0.46
1:A:347:ASN:HB2	1:C:347:ASN:OD1	2.15	0.46
1:A:572:GLU:O	1:A:573:THR:HG23	2.16	0.46
1:A:695:LYS:CD	1:A:707:LEU:HD11	2.46	0.46
1:B:152:ILE:CD1	1:B:195:THR:C	2.84	0.46
1:B:417:ARG:HD3	1:B:482:TYR:CE1	2.51	0.46
1:B:695:LYS:CG	1:B:696:PRO:HD2	2.46	0.46
1:C:504:LEU:HD11	1:C:554:GLU:CD	2.36	0.46
1:D:341:LEU:HD21	1:D:365:ASN:HB2	1.98	0.46
1:D:457:LEU:CG	1:D:559:PHE:CZ	2.98	0.46
2:E:337:VAL:CG2	2:E:359:VAL:HG21	2.46	0.46
2:E:395:LEU:HD12	2:E:400:LEU:HD13	1.98	0.46
2:E:444:LEU:O	2:E:446:TYR:CE2	2.69	0.46
2:F:340:ASN:HB2	2:F:343:PHE:CG	2.51	0.46
2:G:320:ARG:HH22	2:G:457:GLU:HG3	1.81	0.46
2:G:400:LEU:HD22	2:G:409:ILE:HD11	1.98	0.46
1:A:447:ILE:HG22	1:A:453:TYR:CG	2.50	0.45
1:B:50:ILE:O	1:B:53:GLN:HB2	2.16	0.45
1:B:476:PHE:HB3	1:B:480:LYS:CE	2.46	0.45
1:B:497:PHE:CE1	1:B:557:VAL:HG13	2.51	0.45
1:B:647:VAL:O	1:B:651:GLU:HB2	2.16	0.45
1:C:152:ILE:CD1	1:C:195:THR:C	2.84	0.45
1:C:504:LEU:HD21	1:C:550:GLU:HB3	1.98	0.45
1:D:421:LYS:NZ	1:D:479:PHE:CD1	2.72	0.45
1:D:683:ARG:NE	1:D:686:SER:OG	2.48	0.45
1:D:685:VAL:O	1:D:689:GLU:HG3	2.16	0.45
2:E:355:ILE:HG23	2:E:356:THR:N	2.31	0.45
2:F:295:GLU:O	2:F:298:PHE:HB2	2.16	0.45
2:F:331:LEU:HB3	2:F:336:HIS:CG	2.51	0.45
2:H:320:ARG:HH12	2:H:457:GLU:H	1.63	0.45
1:A:559:PHE:O	1:A:564:VAL:N	2.33	0.45
1:B:144:MET:SD	1:B:229:VAL:HA	2.56	0.45
1:B:222:MET:SD	1:B:225:PHE:CE2	3.09	0.45
1:B:402:LEU:HA	1:B:405:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:480:LYS:O	1:B:484:GLU:CB	2.63	0.45
1:B:501:PHE:CE1	1:B:554:GLU:CD	2.90	0.45
1:C:695:LYS:CG	1:C:696:PRO:HD2	2.46	0.45
1:D:70:PHE:HA	1:D:73:LEU:HB2	1.97	0.45
1:D:162:ILE:O	1:D:162:ILE:HG22	2.17	0.45
1:D:199:MET:CE	1:D:243:GLU:OE1	2.64	0.45
1:D:302:ILE:HG22	1:D:307:LEU:HG	1.99	0.45
1:D:313:ILE:HG12	1:D:318:ASP:OD1	2.16	0.45
1:D:414:LEU:HD13	1:D:494:ILE:HD11	1.97	0.45
2:E:324:GLU:O	2:E:328:THR:HG23	2.16	0.45
2:G:295:GLU:HG2	2:G:298:PHE:CE2	2.51	0.45
1:A:330:LEU:HD11	2:G:309:PHE:CE2	2.51	0.45
1:A:419:LEU:HB2	1:A:567:TYR:CE1	2.50	0.45
1:A:695:LYS:CG	1:A:696:PRO:HD2	2.45	0.45
1:B:283:GLU:O	1:B:287:THR:HG23	2.16	0.45
1:B:332:LEU:HD23	1:B:336:PHE:CD2	2.51	0.45
1:B:414:LEU:HD13	1:B:494:ILE:HD11	1.97	0.45
1:C:691:LEU:O	2:H:426:HIS:HA	2.16	0.45
1:D:106:VAL:HG13	1:D:253:ALA:O	2.16	0.45
1:D:497:PHE:CE1	1:D:557:VAL:HG13	2.52	0.45
2:F:342:PHE:CE1	2:F:343:PHE:CE1	3.05	0.45
2:G:397:SER:HB2	2:G:400:LEU:H	1.80	0.45
1:B:457:LEU:CG	1:B:559:PHE:CZ	2.97	0.45
1:B:475:CYS:O	1:B:479:PHE:HD2	1.98	0.45
1:B:548:LYS:O	1:B:552:LEU:HG	2.16	0.45
1:C:370:PRO:C	1:C:372:PHE:H	2.20	0.45
1:D:302:ILE:HG21	1:D:306:VAL:HG22	1.98	0.45
1:D:306:VAL:O	1:D:310:LEU:HB2	2.16	0.45
1:D:325:ILE:HG22	1:D:326:LYS:N	2.31	0.45
2:E:335:ILE:HG22	2:E:335:ILE:O	2.17	0.45
2:E:339:ILE:HD13	2:E:351:VAL:HG22	1.99	0.45
2:F:455:THR:HA	2:F:458:THR:HB	1.99	0.45
2:H:301:TRP:NE1	2:H:446:TYR:CE1	2.84	0.45
2:H:336:HIS:ND1	2:H:389:PHE:HB2	2.32	0.45
2:H:340:ASN:O	2:H:343:PHE:HB2	2.16	0.45
1:A:128:ASN:O	1:A:129:VAL:HB	2.17	0.45
1:B:248:LEU:CD1	1:B:250:PHE:CZ	2.99	0.45
1:B:263:LEU:CD1	1:B:271:LEU:HD11	2.47	0.45
1:B:400:LEU:O	1:B:404:ASN:ND2	2.49	0.45
1:B:636:LEU:HD13	1:B:653:PHE:HD1	1.82	0.45
1:C:155:LEU:HB2	1:C:198:LYS:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:302:ILE:HG22	1:C:307:LEU:HG	1.97	0.45
1:C:350:GLU:O	1:C:354:ARG:HG2	2.16	0.45
1:C:554:GLU:HA	1:C:557:VAL:HB	1.98	0.45
1:C:562:CYS:C	1:C:567:TYR:CD2	2.90	0.45
1:D:137:GLN:NE2	1:D:220:LYS:HD2	2.32	0.45
1:D:355:ILE:O	1:D:395:LYS:HE3	2.16	0.45
1:D:415:VAL:O	1:D:418:CYS:HB3	2.16	0.45
1:D:476:PHE:CZ	1:D:501:PHE:CD1	3.04	0.45
1:A:348:LEU:CD2	1:A:403:GLU:HA	2.46	0.45
1:A:421:LYS:NZ	1:A:479:PHE:CE1	2.79	0.45
1:A:636:LEU:O	1:A:639:GLU:N	2.49	0.45
1:B:244:PHE:O	1:B:246:LEU:N	2.45	0.45
1:C:689:GLU:CG	1:C:694:ILE:HD11	2.46	0.45
1:D:148:LEU:HB2	1:D:195:THR:HG22	1.98	0.45
1:D:387:LEU:HD22	1:D:394:LEU:HD13	1.99	0.45
1:D:404:ASN:C	1:D:574:GLN:OE1	2.55	0.45
2:G:311:ILE:CG1	2:G:421:ILE:HG12	2.45	0.45
2:G:348:VAL:HG22	2:G:400:LEU:HD23	1.99	0.45
2:H:412:LEU:O	2:H:415:LEU:N	2.49	0.45
1:A:341:LEU:HD21	1:A:365:ASN:HB3	1.99	0.45
1:B:51:TRP:CH2	1:B:55:LYS:HE3	2.52	0.45
1:B:293:LEU:HD21	1:B:328:LEU:HD13	1.99	0.45
1:B:302:ILE:HG22	1:B:307:LEU:HG	1.99	0.45
1:B:458:GLN:O	1:B:462:MET:HG2	2.16	0.45
1:C:69:LEU:HD22	1:C:277:GLN:O	2.16	0.45
1:C:209:GLN:HE22	1:C:213:PRO:HG3	1.82	0.45
1:C:332:LEU:HD23	1:C:336:PHE:CD2	2.52	0.45
1:C:694:ILE:HD13	1:C:704:VAL:HG22	1.99	0.45
1:D:100:ILE:O	1:D:271:LEU:HA	2.17	0.45
1:D:255:SER:HB2	1:D:256:PRO:HD3	1.97	0.45
2:F:425:ASP:OD1	2:F:454:TYR:OH	2.34	0.45
2:G:339:ILE:HG21	2:G:351:VAL:HG22	1.99	0.45
2:H:340:ASN:HB2	2:H:343:PHE:CG	2.52	0.45
2:H:397:SER:HB2	2:H:400:LEU:H	1.82	0.45
1:A:44:PHE:HZ	1:A:337:TYR:CE1	2.35	0.45
1:A:104:ALA:HA	1:A:250:PHE:CD2	2.50	0.45
1:A:597:ARG:CZ	1:A:708:THR:OG1	2.65	0.45
1:B:62:GLN:O	1:B:66:ASN:CG	2.56	0.45
1:B:286:THR:HG22	1:B:436:ARG:NE	2.32	0.45
1:B:416:LEU:HD12	1:B:567:TYR:HD1	1.81	0.45
1:C:288:VAL:O	1:C:292:LEU:N	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:314:PHE:HD2	1:C:324:PHE:HB2	1.81	0.45
1:C:405:LEU:HD11	1:C:576:LEU:HB2	1.98	0.45
1:C:646:LEU:HA	1:C:649:TRP:HB3	1.98	0.45
1:C:708:THR:HB	2:H:427:LEU:HD12	1.98	0.45
1:D:74:ILE:O	1:D:78:GLN:HB2	2.17	0.45
1:D:271:LEU:CB	1:D:273:ILE:HG13	2.46	0.45
1:D:421:LYS:HB2	1:D:479:PHE:CZ	2.52	0.45
2:E:441:PHE:HB3	2:E:443:TRP:CE2	2.52	0.45
2:G:412:LEU:HB3	2:G:418:ILE:CD1	2.46	0.45
2:H:369:ILE:HG12	2:H:372:GLN:OE1	2.17	0.45
2:H:455:THR:O	2:H:459:SER:N	2.50	0.45
1:A:50:ILE:HG12	1:A:298:PHE:CD1	2.52	0.45
1:A:70:PHE:HA	1:A:73:LEU:HB2	1.99	0.45
1:A:148:LEU:HA	1:A:151:LEU:HD22	1.99	0.45
1:A:151:LEU:HG	1:A:198:LYS:CD	2.46	0.45
1:A:202:LYS:HD2	1:A:244:PHE:CD1	2.52	0.45
1:A:443:LEU:HA	1:A:570:PRO:HD3	1.99	0.45
1:A:683:ARG:NE	1:A:683:ARG:HA	2.32	0.45
1:B:426:LEU:HD21	1:B:460:LEU:HG	1.99	0.45
1:B:472:LEU:O	1:B:475:CYS:N	2.49	0.45
1:C:563:LEU:HG	1:C:567:TYR:CD2	2.52	0.45
1:D:81:HIS:NE2	1:D:214:PRO:HB3	2.32	0.45
1:D:107:LEU:HD23	1:D:278:SER:HB2	1.99	0.45
1:D:217:VAL:HG12	1:D:219:LEU:HD21	1.99	0.45
1:D:695:LYS:CG	1:D:696:PRO:CD	2.94	0.45
2:E:339:ILE:CD1	2:E:351:VAL:HG13	2.47	0.45
2:E:352:LEU:CD2	2:E:369:ILE:HG23	2.46	0.45
2:F:325:ARG:HA	2:F:328:THR:OG1	2.17	0.45
2:G:355:ILE:HG23	2:G:356:THR:N	2.31	0.45
2:G:442:ASN:HD22	2:G:442:ASN:HA	1.68	0.45
2:H:325:ARG:HA	2:H:328:THR:OG1	2.17	0.45
1:A:148:LEU:HG	1:A:233:PHE:HE1	1.82	0.45
1:B:72:ASN:HA	1:B:75:GLU:HB2	1.99	0.45
1:B:74:ILE:O	1:B:78:GLN:HB2	2.16	0.45
1:B:147:PHE:HE2	1:B:229:VAL:HG11	1.82	0.45
1:B:209:GLN:HE22	1:B:213:PRO:HG3	1.81	0.45
1:C:151:LEU:CD1	1:C:198:LYS:HD2	2.47	0.45
1:C:371:SER:HA	1:C:374:ARG:HB2	1.99	0.45
1:C:414:LEU:HG	1:C:487:LEU:HD13	1.98	0.45
1:C:415:VAL:O	1:C:418:CYS:HB3	2.17	0.45
1:C:641:SER:OG	1:C:642:ARG:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:LEU:HD13	1:D:354:ARG:NH1	2.32	0.45
1:D:263:LEU:HD13	1:D:271:LEU:HD11	1.98	0.45
1:D:335:HIS:HB2	1:D:582:PHE:CG	2.52	0.45
1:D:591:HIS:CD2	2:F:445:TRP:O	2.70	0.45
1:D:686:SER:O	1:D:689:GLU:HB2	2.16	0.45
2:E:347:SER:HA	2:E:399:MET:HG3	1.99	0.45
1:A:122:THR:HA	1:A:133:VAL:HG23	1.98	0.44
1:A:384:GLN:O	1:A:387:LEU:HB2	2.16	0.44
1:B:152:ILE:CG2	1:B:198:LYS:N	2.80	0.44
1:B:420:HIS:NE2	1:B:435:ILE:HA	2.31	0.44
1:B:480:LYS:O	1:B:484:GLU:HB2	2.17	0.44
1:C:208:SER:HB2	1:C:210:TRP:CE2	2.52	0.44
1:C:209:GLN:OE1	1:C:211:GLN:O	2.35	0.44
1:C:238:SER:HA	1:C:241:LEU:CD1	2.47	0.44
1:C:252:ILE:CD1	1:C:259:ILE:HD11	2.47	0.44
1:D:139:LYS:C	1:D:141:CYS:H	2.21	0.44
1:D:144:MET:SD	1:D:233:PHE:CE2	3.10	0.44
1:D:148:LEU:HA	1:D:151:LEU:HD22	1.97	0.44
1:D:387:LEU:HD21	1:D:397:GLU:CD	2.36	0.44
1:D:501:PHE:CE1	1:D:554:GLU:CD	2.91	0.44
1:D:548:LYS:O	1:D:552:LEU:N	2.42	0.44
2:G:340:ASN:HB2	2:G:343:PHE:CG	2.52	0.44
2:G:369:ILE:HA	2:G:372:GLN:CG	2.47	0.44
2:H:326:PHE:O	2:H:331:LEU:N	2.46	0.44
1:A:104:ALA:CA	1:A:250:PHE:HD2	2.29	0.44
1:A:138:ALA:O	1:A:141:CYS:HB2	2.17	0.44
1:A:423:THR:HG21	1:A:438:LEU:HD21	2.00	0.44
1:C:305:LYS:O	1:C:309:VAL:HG23	2.17	0.44
1:C:472:LEU:O	1:C:475:CYS:N	2.50	0.44
1:C:683:ARG:HH11	2:H:458:THR:HA	1.81	0.44
1:D:446:ASN:OD1	1:D:569:LEU:HD11	2.17	0.44
2:F:298:PHE:CD2	2:F:330:MET:HG2	2.53	0.44
2:H:425:ASP:OD1	2:H:454:TYR:OH	2.35	0.44
1:A:415:VAL:HG12	1:A:567:TYR:CE1	2.52	0.44
1:A:425:SER:OG	1:A:471:ILE:HD13	2.18	0.44
1:A:497:PHE:HB3	1:A:501:PHE:HE2	1.83	0.44
1:B:296:THR:HG22	1:B:413:PHE:CD2	2.53	0.44
1:B:310:LEU:HB3	1:B:324:PHE:HE1	1.82	0.44
1:B:382:GLU:C	1:B:384:GLN:N	2.63	0.44
1:B:393:TYR:O	1:B:397:GLU:HG3	2.18	0.44
1:C:65:LEU:HB3	1:C:279:LEU:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:99:GLU:C	1:C:241:LEU:CD1	2.86	0.44
1:C:147:PHE:CE2	1:C:229:VAL:CG1	3.00	0.44
1:C:341:LEU:HD21	1:C:365:ASN:HB2	2.00	0.44
1:C:387:LEU:HD22	1:C:394:LEU:HD13	2.00	0.44
1:D:106:VAL:O	1:D:278:SER:HB2	2.17	0.44
1:D:152:ILE:CG2	1:D:198:LYS:N	2.80	0.44
1:D:284:HIS:HA	1:D:287:THR:OG1	2.18	0.44
1:D:476:PHE:CE2	1:D:501:PHE:CG	3.05	0.44
2:F:319:LYS:HE3	2:F:423:SER:HB2	2.00	0.44
1:A:268:SER:HA	1:A:271:LEU:HD12	1.99	0.44
1:A:373:ARG:O	1:A:377:GLU:HG3	2.18	0.44
1:A:497:PHE:CE1	1:A:557:VAL:HG13	2.53	0.44
1:B:58:ASN:O	1:B:62:GLN:HG3	2.17	0.44
1:B:191:VAL:O	1:B:191:VAL:HG12	2.18	0.44
1:B:348:LEU:O	1:B:352:LYS:HG3	2.17	0.44
1:B:419:LEU:HB2	1:B:567:TYR:CZ	2.53	0.44
1:B:649:TRP:O	1:B:653:PHE:HB3	2.17	0.44
1:C:683:ARG:HD3	1:C:686:SER:OG	2.17	0.44
1:D:75:GLU:O	1:D:79:LYS:HG3	2.18	0.44
1:D:421:LYS:HE3	1:D:479:PHE:CE1	2.53	0.44
1:D:475:CYS:O	1:D:479:PHE:CB	2.62	0.44
1:D:475:CYS:O	1:D:479:PHE:HD2	2.01	0.44
2:F:356:THR:HG22	2:F:363:MET:O	2.18	0.44
2:G:335:ILE:CG2	2:G:388:LEU:HB2	2.47	0.44
2:G:396:ASP:O	2:G:401:ARG:NE	2.51	0.44
1:A:81:HIS:CE1	1:A:214:PRO:HG3	2.53	0.44
1:A:152:ILE:CG2	1:A:198:LYS:N	2.81	0.44
1:A:216:VAL:HG11	1:A:249:ILE:CD1	2.47	0.44
1:A:414:LEU:HD13	1:A:494:ILE:HD11	1.99	0.44
1:A:415:VAL:HG12	1:A:567:TYR:CE2	2.53	0.44
1:B:79:LYS:O	1:B:83:GLY:N	2.39	0.44
1:C:42:LEU:O	1:C:46:THR:HG23	2.17	0.44
1:C:144:MET:SD	1:C:232:ASP:CB	3.06	0.44
1:C:405:LEU:HD21	1:C:575:PRO:O	2.18	0.44
1:C:683:ARG:CZ	2:H:458:THR:HG23	2.47	0.44
1:C:691:LEU:HA	2:H:425:ASP:HB3	1.99	0.44
1:D:384:GLN:O	1:D:387:LEU:HB2	2.17	0.44
1:D:480:LYS:HG2	1:D:498:LEU:HD22	2.00	0.44
1:D:582:PHE:CE1	1:D:583:SER:O	2.70	0.44
2:E:319:LYS:HE3	2:E:423:SER:HB2	2.00	0.44
2:F:312:VAL:HB	2:F:445:TRP:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:332:GLN:O	2:H:336:HIS:CD2	2.71	0.44
1:A:134:VAL:HG13	1:A:154:GLN:CB	2.48	0.44
1:A:144:MET:SD	1:A:233:PHE:CE2	3.11	0.44
1:A:405:LEU:HD11	1:A:576:LEU:HB2	2.00	0.44
1:B:65:LEU:HB3	1:B:279:LEU:HD12	1.99	0.44
1:B:284:HIS:HA	1:B:287:THR:OG1	2.18	0.44
1:B:303:ASN:ND2	1:B:581:TYR:HB3	2.33	0.44
1:B:372:PHE:CE2	1:B:376:VAL:HG21	2.52	0.44
1:C:259:ILE:CG2	1:C:263:LEU:HD12	2.47	0.44
1:C:386:ALA:HB1	1:C:393:TYR:CB	2.48	0.44
1:C:683:ARG:HH12	2:H:461:GLU:HB2	1.82	0.44
1:D:42:LEU:O	1:D:46:THR:HG23	2.18	0.44
1:D:69:LEU:HD13	1:D:278:SER:HA	2.00	0.44
1:D:222:MET:SD	1:D:225:PHE:CD2	3.11	0.44
1:D:688:LEU:HB3	1:D:694:ILE:HG13	2.00	0.44
2:E:320:ARG:O	2:E:324:GLU:HB2	2.17	0.44
2:E:373:LEU:CD2	2:E:412:LEU:HD21	2.48	0.44
2:F:323:LEU:HD12	2:F:393:HIS:CE1	2.53	0.44
2:F:352:LEU:O	2:F:356:THR:OG1	2.15	0.44
2:F:398:GLN:CG	2:F:401:ARG:HG3	2.47	0.44
2:F:410:GLY:O	2:F:414:SER:CB	2.66	0.44
1:A:67:LYS:O	1:A:71:ASP:HB2	2.18	0.44
1:A:647:VAL:O	1:A:651:GLU:HB2	2.18	0.44
1:B:216:VAL:HG11	1:B:249:ILE:HG13	2.00	0.44
1:B:347:ASN:CG	1:D:350:GLU:HG3	2.37	0.44
1:B:384:GLN:O	1:B:388:LEU:HG	2.18	0.44
1:C:100:ILE:HG12	1:C:241:LEU:HD21	2.00	0.44
1:C:196:ASP:O	1:C:199:MET:HG2	2.18	0.44
1:C:202:LYS:HE3	1:C:244:PHE:HE1	1.82	0.44
1:C:333:LEU:HD13	2:H:307:LEU:HD13	1.99	0.44
1:C:557:VAL:O	1:C:561:ASP:HB2	2.18	0.44
1:C:636:LEU:HD13	1:C:653:PHE:HD1	1.83	0.44
1:C:685:VAL:O	1:C:689:GLU:HG3	2.18	0.44
1:D:234:ILE:O	1:D:238:SER:HB3	2.15	0.44
2:H:309:PHE:N	2:H:309:PHE:CD1	2.86	0.44
2:H:347:SER:CB	2:H:399:MET:HG3	2.48	0.44
1:A:43:ARG:O	1:A:46:THR:OG1	2.35	0.44
1:A:100:ILE:HD11	1:A:237:SER:CB	2.48	0.44
1:A:416:LEU:HD12	1:A:567:TYR:CD1	2.53	0.44
1:A:587:ALA:O	1:A:591:HIS:CD2	2.71	0.44
1:B:100:ILE:HD11	1:B:237:SER:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:105:LEU:HB2	1:B:250:PHE:O	2.18	0.44
1:B:138:ALA:HB2	1:B:221:ASP:O	2.18	0.44
1:B:367:ARG:NE	1:B:388:LEU:O	2.50	0.44
1:C:97:LEU:HA	1:C:242:HIS:CD2	2.53	0.44
1:C:134:VAL:HG21	1:C:155:LEU:HG	2.00	0.44
1:C:302:ILE:CG2	1:C:307:LEU:HG	2.48	0.44
1:C:303:ASN:ND2	1:C:581:TYR:HB3	2.33	0.44
1:D:148:LEU:HD23	1:D:151:LEU:HD22	1.98	0.44
1:D:250:PHE:HB3	1:D:252:ILE:HD11	2.00	0.44
1:D:286:THR:HG22	1:D:436:ARG:NE	2.33	0.44
1:D:402:LEU:HD21	1:D:576:LEU:HD13	1.99	0.44
1:D:453:TYR:OH	1:D:563:LEU:CD1	2.64	0.44
1:D:504:LEU:HD11	1:D:554:GLU:CD	2.38	0.44
2:E:311:ILE:CG1	2:E:421:ILE:HG12	2.47	0.44
2:G:369:ILE:HA	2:G:372:GLN:CD	2.38	0.44
2:H:287:LEU:CD2	2:H:451:TYR:HB2	2.47	0.44
1:A:72:ASN:HA	1:A:75:GLU:HB2	1.99	0.44
1:A:563:LEU:HA	1:A:567:TYR:HD2	1.83	0.44
1:B:387:LEU:HD21	1:B:397:GLU:CD	2.37	0.44
1:B:405:LEU:HD21	1:B:575:PRO:O	2.17	0.44
1:B:632:ILE:O	1:B:636:LEU:HG	2.17	0.44
1:C:104:ALA:HA	1:C:250:PHE:HB2	1.99	0.44
1:C:286:THR:HG22	1:C:436:ARG:HE	1.83	0.44
1:C:354:ARG:HA	1:C:357:PHE:HD2	1.82	0.44
1:C:482:TYR:CD1	1:C:486:HIS:CG	3.06	0.44
1:C:501:PHE:CE1	1:C:554:GLU:CD	2.92	0.44
1:C:556:VAL:CA	1:C:559:PHE:HD2	2.30	0.44
1:D:216:VAL:HG11	1:D:249:ILE:HG13	1.99	0.44
1:D:564:VAL:O	1:D:568:LEU:HD21	2.17	0.44
1:D:700:LYS:HD3	1:D:703:HIS:NE2	2.32	0.44
2:E:335:ILE:CG2	2:E:388:LEU:HB2	2.48	0.44
2:E:342:PHE:CE1	2:E:343:PHE:CE1	3.06	0.44
2:G:355:ILE:HD11	2:G:388:LEU:HD21	1.98	0.44
2:G:379:LYS:O	2:G:383:ASP:HB2	2.18	0.44
2:G:433:TRP:HB3	2:G:438:GLN:HG3	1.99	0.44
2:H:348:VAL:HG22	2:H:400:LEU:HD23	1.98	0.44
1:A:50:ILE:O	1:A:53:GLN:HB2	2.17	0.43
1:A:125:LEU:HB3	1:A:131:PRO:HG2	2.00	0.43
1:A:147:PHE:CE1	1:A:225:PHE:CE1	3.06	0.43
1:B:355:ILE:O	1:B:395:LYS:HE3	2.18	0.43
1:B:636:LEU:CD2	1:B:656:VAL:HG11	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:44:PHE:HZ	1:C:337:TYR:CZ	2.36	0.43
1:C:385:VAL:O	1:C:388:LEU:N	2.51	0.43
1:D:52:GLN:O	1:D:56:SER:OG	2.10	0.43
1:D:387:LEU:HA	1:D:394:LEU:HB2	2.00	0.43
1:D:557:VAL:O	1:D:561:ASP:HB2	2.17	0.43
1:D:636:LEU:HD13	1:D:653:PHE:HD1	1.83	0.43
1:D:695:LYS:HB3	1:D:697:THR:CG2	2.48	0.43
2:G:320:ARG:NH2	2:G:342:PHE:CZ	2.85	0.43
2:G:323:LEU:HD12	2:G:393:HIS:CE1	2.53	0.43
2:H:325:ARG:O	2:H:329:THR:OG1	2.30	0.43
2:H:391:LEU:CD2	2:H:421:ILE:HB	2.44	0.43
2:H:420:LEU:HD21	2:H:443:TRP:CH2	2.53	0.43
1:A:199:MET:CE	1:A:244:PHE:CE2	3.01	0.43
1:A:279:LEU:HD22	1:A:283:GLU:OE1	2.18	0.43
1:A:557:VAL:HG22	1:A:561:ASP:OD2	2.17	0.43
1:A:697:THR:HG21	1:A:705:ALA:HB3	2.00	0.43
1:B:51:TRP:CH2	1:B:329:GLN:NE2	2.86	0.43
1:B:151:LEU:CG	1:B:198:LYS:HD2	2.48	0.43
1:B:367:ARG:NH2	1:B:391:GLU:HG2	2.33	0.43
1:B:636:LEU:O	1:B:639:GLU:N	2.50	0.43
1:C:106:VAL:O	1:C:278:SER:HB2	2.18	0.43
1:C:280:SER:O	1:C:284:HIS:ND1	2.51	0.43
1:C:685:VAL:HG13	1:C:704:VAL:HG21	2.00	0.43
1:C:688:LEU:HB3	1:C:694:ILE:HG13	2.00	0.43
1:D:69:LEU:HD22	1:D:277:GLN:O	2.18	0.43
1:D:221:ASP:OD1	1:D:221:ASP:N	2.47	0.43
1:D:332:LEU:HD23	1:D:336:PHE:CD2	2.53	0.43
1:D:422:PHE:CE1	1:D:472:LEU:HD22	2.53	0.43
2:E:295:GLU:HA	2:E:298:PHE:CD2	2.53	0.43
2:E:331:LEU:HD11	2:E:391:LEU:CG	2.49	0.43
2:E:398:GLN:HG3	2:E:401:ARG:HG3	2.00	0.43
2:E:425:ASP:OD1	2:E:454:TYR:OH	2.35	0.43
2:F:355:ILE:HG23	2:F:356:THR:N	2.32	0.43
1:A:42:LEU:HD13	1:A:354:ARG:NH1	2.32	0.43
1:A:45:GLU:CD	1:C:49:LEU:HD23	2.39	0.43
1:A:418:CYS:O	1:A:422:PHE:HD2	2.01	0.43
1:B:371:SER:OG	1:B:576:LEU:N	2.49	0.43
1:B:572:GLU:O	1:B:573:THR:HG23	2.19	0.43
1:B:707:LEU:N	1:B:707:LEU:HD12	2.33	0.43
1:D:334:GLU:HG3	1:D:582:PHE:CZ	2.54	0.43
2:E:411:GLN:O	2:E:415:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:420:LEU:HD21	2:E:443:TRP:HH2	1.82	0.43
2:G:304:GLN:OE1	2:G:446:TYR:OH	2.30	0.43
2:H:309:PHE:CE2	2:H:442:ASN:ND2	2.86	0.43
1:A:250:PHE:HB3	1:A:252:ILE:CD1	2.48	0.43
1:A:312:ASN:O	1:A:316:TYR:HB2	2.18	0.43
1:A:354:ARG:O	1:A:358:LEU:HG	2.19	0.43
1:A:632:ILE:O	1:A:636:LEU:HG	2.18	0.43
1:B:144:MET:SD	1:B:233:PHE:CE2	3.11	0.43
1:B:420:HIS:CG	1:B:435:ILE:HG12	2.53	0.43
1:B:474:LYS:O	1:B:478:VAL:HG23	2.19	0.43
1:B:475:CYS:O	1:B:479:PHE:CB	2.63	0.43
1:B:496:GLU:O	1:B:500:GLN:HG3	2.18	0.43
1:C:271:LEU:CB	1:C:273:ILE:HG13	2.49	0.43
1:D:250:PHE:HB3	1:D:252:ILE:CD1	2.47	0.43
1:D:401:LEU:HD12	1:D:576:LEU:HD11	1.99	0.43
1:D:497:PHE:CD1	1:D:557:VAL:CG1	3.01	0.43
1:D:644:ILE:HB	1:D:649:TRP:CE3	2.52	0.43
2:E:323:LEU:HD12	2:E:393:HIS:CE1	2.53	0.43
2:E:325:ARG:HA	2:E:328:THR:OG1	2.17	0.43
2:G:327:ARG:HA	2:G:331:LEU:HD12	2.01	0.43
2:H:411:GLN:O	2:H:415:LEU:HG	2.18	0.43
1:A:139:LYS:C	1:A:141:CYS:H	2.21	0.43
1:A:150:LYS:O	1:A:154:GLN:CG	2.66	0.43
1:A:254:THR:HB	1:A:258:ILE:HD12	2.00	0.43
1:A:335:HIS:HB2	1:A:582:PHE:CG	2.53	0.43
1:B:49:LEU:CD2	1:D:45:GLU:OE2	2.65	0.43
1:B:234:ILE:HD13	1:B:267:VAL:HG13	1.99	0.43
1:B:564:VAL:O	1:B:568:LEU:HD21	2.18	0.43
1:C:71:ASP:O	1:C:75:GLU:HB2	2.19	0.43
1:C:136:LEU:HB2	1:C:219:LEU:HD22	2.00	0.43
1:C:241:LEU:C	1:C:243:GLU:H	2.21	0.43
1:C:306:VAL:O	1:C:310:LEU:HD13	2.19	0.43
1:C:381:SER:C	1:C:383:LYS:H	2.21	0.43
1:C:427:PRO:C	1:C:429:TYR:H	2.22	0.43
1:C:461:ARG:HG2	1:C:552:LEU:HD22	1.99	0.43
1:D:259:ILE:CG2	1:D:263:LEU:HD12	2.47	0.43
1:D:412:TYR:HE1	1:D:568:LEU:O	2.02	0.43
1:D:636:LEU:O	1:D:639:GLU:N	2.50	0.43
2:E:412:LEU:HB3	2:E:418:ILE:CD1	2.49	0.43
1:A:191:VAL:O	1:A:191:VAL:HG12	2.19	0.43
1:A:310:LEU:O	1:A:313:ILE:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:476:PHE:CD1	1:A:480:LYS:HE3	2.53	0.43
1:A:557:VAL:O	1:A:561:ASP:HB2	2.18	0.43
1:A:694:ILE:HD13	1:A:704:VAL:HG22	2.00	0.43
1:B:476:PHE:CD1	1:B:480:LYS:HE3	2.53	0.43
1:B:556:VAL:O	1:B:560:ILE:N	2.42	0.43
1:B:564:VAL:O	1:B:568:LEU:HD11	2.18	0.43
1:C:69:LEU:HD13	1:C:278:SER:HA	2.00	0.43
1:C:371:SER:OG	1:C:576:LEU:N	2.50	0.43
1:C:423:THR:CG2	1:C:438:LEU:HD21	2.49	0.43
1:C:457:LEU:CG	1:C:559:PHE:CZ	3.01	0.43
1:C:494:ILE:HA	1:C:497:PHE:HD2	1.82	0.43
1:C:569:LEU:O	1:C:573:THR:HG23	2.18	0.43
1:C:682:ILE:HD11	2:H:465:LEU:HD12	2.00	0.43
1:C:685:VAL:HG11	1:C:704:VAL:HG21	2.00	0.43
1:D:152:ILE:CG1	1:D:198:LYS:H	2.31	0.43
1:D:419:LEU:HD22	1:D:567:TYR:CE1	2.54	0.43
1:D:476:PHE:CD1	1:D:480:LYS:HE3	2.54	0.43
1:A:134:VAL:O	1:A:218:ILE:HD12	2.18	0.43
1:A:461:ARG:HG2	1:A:552:LEU:HD21	2.01	0.43
1:A:478:VAL:HA	1:A:481:SER:HB3	2.01	0.43
1:A:564:VAL:O	1:A:568:LEU:HD21	2.18	0.43
1:B:370:PRO:C	1:B:372:PHE:H	2.21	0.43
1:B:408:TYR:HB3	1:B:412:TYR:HE2	1.83	0.43
1:D:58:ASN:ND2	1:D:325:ILE:HD11	2.34	0.43
1:D:152:ILE:HG21	1:D:197:PRO:CA	2.49	0.43
1:D:199:MET:HE3	1:D:244:PHE:CE2	2.53	0.43
1:D:335:HIS:HB2	1:D:582:PHE:CD1	2.53	0.43
1:D:370:PRO:C	1:D:372:PHE:H	2.22	0.43
1:D:430:PRO:HB2	1:D:452:GLU:HB3	1.99	0.43
1:D:564:VAL:O	1:D:568:LEU:HD11	2.18	0.43
2:G:295:GLU:HA	2:G:298:PHE:CD2	2.54	0.43
2:H:388:LEU:O	2:H:418:ILE:HA	2.19	0.43
1:A:427:PRO:C	1:A:429:TYR:H	2.22	0.43
1:A:453:TYR:OH	1:A:563:LEU:HD13	2.19	0.43
1:B:59:GLU:O	1:B:63:GLU:HG3	2.18	0.43
1:B:136:LEU:HD13	1:B:147:PHE:HD1	1.84	0.43
1:B:338:SER:O	1:B:339:GLN:HG3	2.19	0.43
1:B:560:ILE:O	1:B:565:ARG:HG3	2.19	0.43
1:B:645:ASN:OD1	1:B:648:ASP:N	2.41	0.43
1:C:110:ASN:HB3	1:C:281:CYS:SG	2.59	0.43
1:C:555:ASN:O	1:C:559:PHE:CD2	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:695:LYS:CG	1:C:696:PRO:CD	2.96	0.43
1:D:102:THR:HA	1:D:247:ILE:HG23	2.00	0.43
1:D:110:ASN:HB3	1:D:281:CYS:SG	2.58	0.43
1:D:326:LYS:HA	1:D:329:GLN:HE21	1.83	0.43
1:D:562:CYS:HB3	1:D:567:TYR:CE2	2.53	0.43
1:D:641:SER:OG	1:D:642:ARG:N	2.51	0.43
2:E:294:TYR:CZ	2:E:448:THR:HA	2.54	0.43
2:E:335:ILE:HG22	2:E:388:LEU:HA	2.01	0.43
2:E:400:LEU:HD22	2:E:409:ILE:HD11	2.00	0.43
2:F:291:ASN:O	2:F:295:GLU:HG3	2.19	0.43
2:F:327:ARG:HA	2:F:331:LEU:HD12	2.01	0.43
2:F:429:ALA:N	2:F:430:PRO:HD2	2.34	0.43
2:G:331:LEU:O	2:G:336:HIS:NE2	2.52	0.43
2:H:369:ILE:HA	2:H:372:GLN:CD	2.39	0.43
1:A:107:LEU:HD23	1:A:278:SER:HB2	2.00	0.43
1:A:219:LEU:HD13	1:A:222:MET:SD	2.59	0.43
1:A:286:THR:HG21	1:A:434:GLN:NE2	2.33	0.43
1:A:355:ILE:O	1:A:395:LYS:HE3	2.19	0.43
1:A:563:LEU:HA	1:A:567:TYR:CD2	2.54	0.43
1:A:693:PHE:CZ	2:G:427:LEU:HD21	2.53	0.43
1:B:77:LEU:CD2	1:B:247:ILE:HG21	2.47	0.43
1:B:125:LEU:O	1:B:131:PRO:CG	2.67	0.43
1:B:148:LEU:HD13	1:B:195:THR:HB	2.01	0.43
1:B:263:LEU:HD13	1:B:271:LEU:HD11	1.99	0.43
1:B:497:PHE:CE1	1:B:557:VAL:CG1	3.01	0.43
1:B:558:ASN:O	1:B:563:LEU:HD12	2.19	0.43
1:C:51:TRP:CH2	1:C:55:LYS:HE3	2.54	0.43
1:C:352:LYS:HG2	1:C:399:GLN:HG2	2.00	0.43
1:C:446:ASN:OD1	1:C:569:LEU:CD1	2.64	0.43
1:C:504:LEU:CD2	1:C:550:GLU:HB3	2.48	0.43
1:C:555:ASN:C	1:C:559:PHE:CD2	2.92	0.43
1:C:597:ARG:NH2	1:C:708:THR:OG1	2.51	0.43
1:D:371:SER:O	1:D:375:TYR:HB2	2.18	0.43
2:G:398:GLN:CG	2:G:401:ARG:HG3	2.49	0.43
2:G:400:LEU:HD22	2:G:409:ILE:CD1	2.47	0.43
2:H:400:LEU:HD22	2:H:409:ILE:HD11	2.00	0.43
1:A:54:MET:HE3	1:A:292:LEU:HD13	2.01	0.43
1:A:71:ASP:O	1:A:75:GLU:HB2	2.18	0.43
1:A:372:PHE:CE2	1:A:376:VAL:HG21	2.54	0.43
1:A:448:TRP:CH2	1:A:559:PHE:HB3	2.54	0.43
1:A:476:PHE:HB3	1:A:480:LYS:CE	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:144:MET:HE3	1:B:233:PHE:CE1	2.54	0.43
1:B:333:LEU:HB3	1:B:337:TYR:HE2	1.83	0.43
1:C:144:MET:O	1:C:233:PHE:HZ	2.02	0.43
1:C:150:LYS:O	1:C:154:GLN:CG	2.67	0.43
1:C:230:LEU:HD21	1:C:263:LEU:CD2	2.49	0.43
1:C:313:ILE:HG12	1:C:318:ASP:OD1	2.19	0.43
1:C:372:PHE:CE2	1:C:376:VAL:CG2	3.02	0.43
1:C:429:TYR:HB2	1:C:433:ARG:HE	1.83	0.43
1:C:549:PHE:HA	1:C:552:LEU:HB2	2.00	0.43
1:C:578:GLU:O	1:C:579:VAL:HB	2.19	0.43
1:D:286:THR:HG22	1:D:436:ARG:HE	1.84	0.43
1:D:419:LEU:HD23	1:D:438:LEU:HD23	2.01	0.43
1:D:501:PHE:CD1	1:D:554:GLU:OE2	2.71	0.43
1:D:689:GLU:CG	1:D:694:ILE:HD11	2.45	0.43
2:E:436:ALA:O	2:E:440:LEU:HG	2.19	0.43
2:F:340:ASN:HB3	2:F:342:PHE:CZ	2.54	0.43
2:G:377:VAL:HG13	2:G:381:LYS:HG3	2.01	0.43
2:H:320:ARG:NH1	2:H:457:GLU:CD	2.72	0.43
2:H:433:TRP:HB3	2:H:438:GLN:HG3	2.00	0.43
1:A:74:ILE:O	1:A:78:GLN:HB2	2.18	0.42
1:A:421:LYS:HE3	1:A:479:PHE:CE1	2.54	0.42
1:A:467:GLU:HG2	1:A:471:ILE:HD12	2.00	0.42
1:A:646:LEU:HD12	1:A:702:ASP:HB3	2.00	0.42
1:A:693:PHE:CE2	2:G:427:LEU:HD21	2.54	0.42
1:B:152:ILE:HD13	1:B:197:PRO:HD2	2.01	0.42
1:B:155:LEU:HD21	1:B:215:VAL:CG1	2.49	0.42
1:B:202:LYS:HE3	1:B:215:VAL:CG2	2.49	0.42
1:B:350:GLU:CD	1:D:350:GLU:OE2	2.57	0.42
1:B:457:LEU:HG	1:B:559:PHE:HZ	1.81	0.42
1:C:139:LYS:C	1:C:141:CYS:H	2.23	0.42
1:C:273:ILE:HG22	1:C:274:GLU:N	2.34	0.42
1:C:367:ARG:NH2	1:C:391:GLU:HG2	2.34	0.42
1:C:402:LEU:HA	1:C:405:LEU:HD12	2.01	0.42
1:C:552:LEU:O	1:C:556:VAL:CG2	2.67	0.42
1:C:657:VAL:HG12	1:C:677:ILE:HD11	2.01	0.42
1:D:333:LEU:HB3	1:D:337:TYR:HE2	1.83	0.42
2:E:320:ARG:NH1	2:E:457:GLU:CD	2.72	0.42
2:E:369:ILE:HA	2:E:372:GLN:CD	2.39	0.42
2:F:355:ILE:HD11	2:F:388:LEU:HD21	2.01	0.42
2:F:397:SER:CB	2:F:400:LEU:H	2.31	0.42
2:H:295:GLU:O	2:H:298:PHE:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:49:LEU:HD22	1:C:45:GLU:CG	2.49	0.42
1:A:234:ILE:HD13	1:A:267:VAL:HG13	2.00	0.42
1:A:370:PRO:C	1:A:372:PHE:H	2.22	0.42
1:A:371:SER:O	1:A:575:PRO:HA	2.18	0.42
1:A:419:LEU:HD22	1:A:567:TYR:CE1	2.53	0.42
1:B:494:ILE:HA	1:B:497:PHE:CD2	2.52	0.42
1:B:563:LEU:HG	1:B:567:TYR:CD2	2.55	0.42
1:C:335:HIS:HB2	1:C:582:PHE:CD1	2.53	0.42
1:C:476:PHE:CE2	1:C:501:PHE:CG	3.07	0.42
1:C:636:LEU:CD2	1:C:656:VAL:HG11	2.50	0.42
1:D:107:LEU:HD22	1:D:114:HIS:NE2	2.34	0.42
1:D:352:LYS:O	1:D:355:ILE:HB	2.20	0.42
1:D:474:LYS:O	1:D:478:VAL:HG23	2.19	0.42
2:G:339:ILE:CD1	2:G:351:VAL:HG13	2.49	0.42
2:H:298:PHE:CD2	2:H:330:MET:HG2	2.54	0.42
2:H:355:ILE:HG23	2:H:356:THR:N	2.33	0.42
1:A:44:PHE:HZ	1:A:337:TYR:CZ	2.37	0.42
1:A:152:ILE:HD12	1:A:194:LYS:O	2.20	0.42
1:A:202:LYS:HE3	1:A:215:VAL:HG21	2.02	0.42
1:A:238:SER:HA	1:A:241:LEU:CD1	2.50	0.42
1:A:367:ARG:CZ	1:A:388:LEU:O	2.68	0.42
1:A:409:HIS:HA	1:A:412:TYR:CD2	2.53	0.42
1:A:484:GLU:HG2	1:C:392:ARG:HD3	2.01	0.42
1:A:649:TRP:O	1:A:653:PHE:HB3	2.18	0.42
1:B:476:PHE:CZ	1:B:501:PHE:CG	3.06	0.42
1:C:113:ASP:OD2	1:C:322:GLN:HG3	2.18	0.42
1:C:142:PRO:O	1:C:229:VAL:HG21	2.20	0.42
1:C:152:ILE:HD12	1:C:195:THR:HA	2.01	0.42
1:C:414:LEU:O	1:C:479:PHE:CE1	2.71	0.42
1:D:54:MET:CE	1:D:292:LEU:HB3	2.49	0.42
1:D:71:ASP:O	1:D:75:GLU:CB	2.67	0.42
1:D:97:LEU:HA	1:D:242:HIS:CG	2.54	0.42
1:D:402:LEU:HA	1:D:405:LEU:HD12	2.00	0.42
1:D:552:LEU:O	1:D:556:VAL:CG2	2.67	0.42
2:F:311:ILE:CG1	2:F:421:ILE:HG12	2.49	0.42
2:F:335:ILE:HG22	2:F:335:ILE:O	2.19	0.42
2:F:420:LEU:HD11	2:F:422:ALA:HB2	2.01	0.42
2:G:318:SER:HB2	2:G:457:GLU:OE1	2.19	0.42
2:G:373:LEU:CD2	2:G:412:LEU:HD21	2.47	0.42
1:A:100:ILE:HD11	1:A:237:SER:HB2	2.01	0.42
1:A:234:ILE:HD13	1:A:267:VAL:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:CYS:O	1:A:479:PHE:HD2	1.97	0.42
1:A:562:CYS:HB3	1:A:567:TYR:CE2	2.54	0.42
1:A:641:SER:OG	1:A:642:ARG:N	2.51	0.42
1:A:649:TRP:HZ3	1:A:704:VAL:HB	1.85	0.42
1:B:71:ASP:O	1:B:75:GLU:HB2	2.19	0.42
1:B:100:ILE:HD11	1:B:237:SER:HB2	2.02	0.42
1:C:76:PHE:CG	1:C:276:PHE:CZ	3.07	0.42
1:C:582:PHE:CE1	1:C:583:SER:O	2.72	0.42
1:D:227:THR:HA	1:D:230:LEU:HB3	2.02	0.42
1:D:556:VAL:O	1:D:560:ILE:N	2.50	0.42
1:D:649:TRP:CZ3	1:D:704:VAL:HB	2.53	0.42
2:F:318:SER:HA	2:F:319:LYS:HZ1	1.85	0.42
2:F:324:GLU:O	2:F:328:THR:HG23	2.19	0.42
2:G:319:LYS:HE3	2:G:423:SER:HB2	2.00	0.42
2:G:362:HIS:HB3	2:G:379:LYS:NZ	2.34	0.42
1:A:363:CYS:SG	1:A:391:GLU:CD	2.98	0.42
1:B:563:LEU:N	1:B:567:TYR:HD2	2.18	0.42
1:C:209:GLN:H	1:C:210:TRP:HA	1.82	0.42
1:C:252:ILE:HG22	1:C:253:ALA:N	2.34	0.42
1:C:563:LEU:HD23	1:C:567:TYR:CG	2.54	0.42
1:C:564:VAL:O	1:C:568:LEU:HD21	2.19	0.42
2:F:356:THR:OG1	2:F:365:THR:CG2	2.68	0.42
2:F:412:LEU:O	2:F:415:LEU:N	2.53	0.42
2:G:397:SER:CB	2:G:400:LEU:H	2.32	0.42
2:G:397:SER:HB3	2:G:400:LEU:HD12	2.02	0.42
2:H:331:LEU:O	2:H:336:HIS:NE2	2.52	0.42
2:H:410:GLY:O	2:H:414:SER:HB3	2.19	0.42
1:A:118:PHE:HB3	1:A:220:LYS:HE2	2.02	0.42
1:A:342:SER:O	1:A:345:CYS:CB	2.68	0.42
1:A:416:LEU:HA	1:A:567:TYR:HE1	1.84	0.42
1:B:75:GLU:O	1:B:79:LYS:HG3	2.19	0.42
1:B:341:LEU:HD21	1:B:365:ASN:HB2	2.00	0.42
1:B:446:ASN:HA	1:B:569:LEU:HD21	2.02	0.42
1:C:636:LEU:O	1:C:639:GLU:N	2.50	0.42
1:D:314:PHE:CD2	1:D:324:PHE:HB2	2.54	0.42
1:D:372:PHE:HA	1:D:375:TYR:HB3	2.01	0.42
1:D:398:THR:O	1:D:402:LEU:HG	2.19	0.42
1:D:480:LYS:HZ3	1:D:502:GLN:HG3	1.85	0.42
1:D:591:HIS:HA	2:F:445:TRP:H	1.85	0.42
1:D:632:ILE:O	1:D:636:LEU:HG	2.20	0.42
2:E:398:GLN:CG	2:E:401:ARG:HG3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:347:SER:N	2:F:350:SER:OG	2.45	0.42
1:A:305:LYS:O	1:A:309:VAL:HG23	2.20	0.42
1:A:367:ARG:NE	1:A:388:LEU:O	2.52	0.42
1:A:381:SER:HB3	1:A:382:GLU:H	1.52	0.42
1:A:387:LEU:HD23	1:A:394:LEU:HA	2.02	0.42
1:A:408:TYR:HB3	1:A:412:TYR:HE2	1.84	0.42
1:A:694:ILE:CG1	1:A:704:VAL:HG13	2.49	0.42
1:B:152:ILE:HD12	1:B:194:LYS:O	2.20	0.42
1:B:152:ILE:CG1	1:B:198:LYS:HG3	2.50	0.42
1:C:162:ILE:O	1:C:162:ILE:HG22	2.19	0.42
1:C:286:THR:HG22	1:C:436:ARG:NE	2.34	0.42
1:C:402:LEU:HD21	1:C:576:LEU:HD13	2.02	0.42
1:D:104:ALA:CA	1:D:250:PHE:HD2	2.33	0.42
1:D:147:PHE:CE1	1:D:225:PHE:CE1	3.08	0.42
1:D:216:VAL:CG1	1:D:249:ILE:HG13	2.49	0.42
2:E:309:PHE:N	2:E:309:PHE:CD1	2.86	0.42
2:F:320:ARG:CZ	2:F:456:GLU:HB2	2.50	0.42
2:G:318:SER:HA	2:G:319:LYS:HZ1	1.85	0.42
2:H:298:PHE:HB3	2:H:330:MET:CG	2.49	0.42
1:A:106:VAL:O	1:A:278:SER:HB2	2.20	0.42
1:A:217:VAL:HG12	1:A:219:LEU:HD21	2.00	0.42
1:B:404:ASN:HB2	1:B:574:GLN:OE1	2.20	0.42
1:B:421:LYS:HB2	1:B:479:PHE:CZ	2.55	0.42
1:C:136:LEU:HB2	1:C:219:LEU:CD2	2.50	0.42
1:C:144:MET:HE3	1:C:233:PHE:CE1	2.54	0.42
1:C:263:LEU:CD1	1:C:271:LEU:HD11	2.50	0.42
1:C:302:ILE:HG21	1:C:306:VAL:HG22	1.98	0.42
1:C:330:LEU:HD21	2:H:309:PHE:CE2	2.54	0.42
1:C:552:LEU:O	1:C:556:VAL:HB	2.19	0.42
1:C:695:LYS:O	1:C:697:THR:HG23	2.20	0.42
1:D:113:ASP:OD2	1:D:322:GLN:HG3	2.20	0.42
1:D:426:LEU:HD21	1:D:460:LEU:HG	2.01	0.42
1:D:685:VAL:HG13	1:D:704:VAL:HG21	2.01	0.42
2:F:453:PRO:CA	2:F:454:TYR:HB2	2.46	0.42
2:H:394:ASN:ND2	2:H:425:ASP:OD2	2.32	0.42
1:A:79:LYS:O	1:A:83:GLY:N	2.38	0.42
1:A:147:PHE:CE1	1:A:225:PHE:CZ	3.07	0.42
1:A:152:ILE:HD13	1:A:197:PRO:HD2	2.02	0.42
1:A:386:ALA:HB1	1:A:393:TYR:CB	2.50	0.42
1:A:569:LEU:CB	1:A:571:PRO:HD2	2.48	0.42
1:B:216:VAL:HG11	1:B:249:ILE:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:416:LEU:HA	1:B:567:TYR:HE1	1.84	0.42
1:B:421:LYS:NZ	1:B:479:PHE:CD1	2.74	0.42
1:B:555:ASN:HB3	1:B:559:PHE:CE2	2.55	0.42
1:C:54:MET:HE3	1:C:292:LEU:HD13	2.01	0.42
1:C:131:PRO:CB	1:C:214:PRO:O	2.68	0.42
1:C:132:TYR:O	1:C:155:LEU:CD2	2.68	0.42
1:C:257:ILE:O	1:C:261:ARG:HG3	2.20	0.42
1:C:330:LEU:HD21	2:H:309:PHE:CD2	2.55	0.42
1:C:330:LEU:HD13	1:C:592:LEU:HD21	2.00	0.42
1:C:400:LEU:O	1:C:404:ASN:ND2	2.53	0.42
1:C:686:SER:O	1:C:689:GLU:HB2	2.19	0.42
1:D:41:LYS:HD2	1:D:44:PHE:HE2	1.84	0.42
1:D:67:LYS:O	1:D:71:ASP:HB2	2.19	0.42
1:D:563:LEU:CA	1:D:567:TYR:HD2	2.33	0.42
2:F:309:PHE:N	2:F:309:PHE:CD1	2.87	0.42
2:H:320:ARG:HH22	2:H:457:GLU:CA	2.33	0.42
1:A:41:LYS:HD2	1:A:44:PHE:HE2	1.85	0.42
1:A:332:LEU:HD23	1:A:336:PHE:CD2	2.54	0.42
1:A:594:ALA:HB2	2:G:445:TRP:CE2	2.55	0.42
1:B:126:GLN:HB3	1:B:162:ILE:HD11	2.01	0.42
1:B:234:ILE:HD13	1:B:267:VAL:CG1	2.50	0.42
1:B:480:LYS:O	1:B:484:GLU:HG3	2.19	0.42
1:B:552:LEU:O	1:B:556:VAL:CG2	2.68	0.42
1:C:75:GLU:O	1:C:79:LYS:HG3	2.20	0.42
1:C:202:LYS:HE3	1:C:215:VAL:HG21	2.02	0.42
1:C:202:LYS:HZ2	1:C:244:PHE:CE1	1.78	0.42
1:C:222:MET:SD	1:C:225:PHE:CD2	3.13	0.42
1:C:310:LEU:HB3	1:C:324:PHE:HE1	1.84	0.42
1:C:352:LYS:O	1:C:355:ILE:HB	2.20	0.42
1:C:591:HIS:CD2	2:H:445:TRP:O	2.73	0.42
1:C:687:GLU:OE2	2:H:454:TYR:CB	2.68	0.42
2:G:332:GLN:O	2:G:336:HIS:HD2	2.03	0.42
1:A:81:HIS:NE2	1:A:214:PRO:HB3	2.35	0.41
1:A:474:LYS:O	1:A:478:VAL:HG23	2.20	0.41
1:A:569:LEU:HB3	1:A:570:PRO:HD2	2.01	0.41
1:A:570:PRO:O	1:A:573:THR:OG1	2.26	0.41
1:A:694:ILE:CD1	1:A:704:VAL:HG13	2.48	0.41
1:B:41:LYS:HD2	1:B:44:PHE:HE2	1.84	0.41
1:B:426:LEU:CD2	1:B:456:VAL:HG13	2.50	0.41
1:B:476:PHE:O	1:B:480:LYS:CB	2.63	0.41
1:C:376:VAL:HG13	1:C:384:GLN:NE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:426:LEU:HD21	1:C:460:LEU:HG	2.02	0.41
1:C:461:ARG:HG2	1:C:552:LEU:HD21	2.02	0.41
1:C:636:LEU:HD11	1:C:657:VAL:HG21	2.02	0.41
1:C:637:HIS:CD2	1:C:694:ILE:CG2	3.03	0.41
1:C:649:TRP:CZ3	1:C:704:VAL:HB	2.52	0.41
1:D:101:PRO:HA	1:D:271:LEU:O	2.20	0.41
1:D:199:MET:CE	1:D:243:GLU:HB3	2.50	0.41
1:D:419:LEU:HB2	1:D:567:TYR:CZ	2.55	0.41
1:D:552:LEU:O	1:D:556:VAL:HB	2.20	0.41
2:E:348:VAL:HG23	2:E:399:MET:HB2	2.03	0.41
2:F:332:GLN:O	2:F:333:ASP:C	2.59	0.41
2:F:362:HIS:O	2:F:363:MET:HG2	2.19	0.41
2:H:400:LEU:HD22	2:H:409:ILE:CD1	2.50	0.41
1:A:75:GLU:O	1:A:79:LYS:HG3	2.21	0.41
1:A:152:ILE:CD1	1:A:195:THR:C	2.88	0.41
1:B:338:SER:O	1:B:339:GLN:CG	2.69	0.41
1:B:476:PHE:CE2	1:B:501:PHE:CG	3.08	0.41
1:B:653:PHE:O	1:B:657:VAL:HB	2.20	0.41
1:C:152:ILE:HA	1:C:198:LYS:CG	2.50	0.41
1:C:255:SER:CB	1:C:256:PRO:CD	2.98	0.41
1:C:263:LEU:HD13	1:C:271:LEU:HD11	2.02	0.41
1:C:373:ARG:O	1:C:377:GLU:HG3	2.20	0.41
1:C:446:ASN:HB2	1:C:449:ASP:HB2	2.03	0.41
1:D:104:ALA:HA	1:D:250:PHE:CD2	2.52	0.41
1:D:255:SER:CB	1:D:256:PRO:CD	2.98	0.41
1:D:324:PHE:CE2	1:D:328:LEU:HD11	2.54	0.41
1:D:694:ILE:HD13	1:D:704:VAL:HG22	2.02	0.41
2:E:320:ARG:HH12	2:E:457:GLU:H	1.68	0.41
2:E:348:VAL:HG22	2:E:400:LEU:HD23	2.02	0.41
2:E:369:ILE:HG21	2:E:408:ILE:CD1	2.50	0.41
2:G:318:SER:HB2	2:G:454:TYR:H	1.86	0.41
2:G:320:ARG:NH2	2:G:457:GLU:HG3	2.35	0.41
2:G:388:LEU:HB3	2:G:418:ILE:HG22	2.02	0.41
2:G:390:LEU:CD2	2:G:418:ILE:HD12	2.50	0.41
2:G:395:LEU:HD12	2:G:400:LEU:HD13	2.02	0.41
2:H:321:ASP:O	2:H:325:ARG:HG3	2.20	0.41
2:H:453:PRO:CA	2:H:454:TYR:HB2	2.45	0.41
1:A:62:GLN:O	1:A:66:ASN:CG	2.58	0.41
1:A:122:THR:HA	1:A:133:VAL:HG21	2.02	0.41
1:A:202:LYS:CE	1:A:215:VAL:CG2	2.98	0.41
1:A:255:SER:CB	1:A:256:PRO:CD	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:420:HIS:CE1	1:A:435:ILE:HG23	2.55	0.41
1:A:604:LEU:CD1	1:A:693:PHE:CZ	3.03	0.41
1:A:695:LYS:O	1:A:697:THR:HG23	2.21	0.41
1:B:58:ASN:ND2	1:B:325:ILE:HD11	2.35	0.41
1:B:141:CYS:CB	1:B:147:PHE:CZ	3.01	0.41
1:B:333:LEU:O	1:B:336:PHE:N	2.52	0.41
1:B:371:SER:O	1:B:575:PRO:HA	2.20	0.41
1:B:421:LYS:NZ	1:B:479:PHE:CE1	2.81	0.41
1:B:482:TYR:HA	1:B:486:HIS:HB2	2.01	0.41
1:C:150:LYS:O	1:C:151:LEU:C	2.59	0.41
1:C:370:PRO:HA	1:C:373:ARG:HB2	2.02	0.41
1:C:413:PHE:O	1:C:414:LEU:C	2.59	0.41
1:C:439:TYR:O	1:C:443:LEU:HD13	2.20	0.41
1:C:595:ALA:HB1	1:C:598:ILE:HD12	2.03	0.41
1:C:700:LYS:HB3	1:C:703:HIS:CE1	2.55	0.41
1:D:482:TYR:CD1	1:D:486:HIS:CG	3.08	0.41
1:D:570:PRO:CD	1:D:571:PRO:HD3	2.50	0.41
2:E:298:PHE:CD2	2:E:330:MET:CG	3.03	0.41
2:E:356:THR:OG1	2:E:365:THR:CG2	2.68	0.41
2:F:342:PHE:O	2:F:344:PRO:HD3	2.20	0.41
2:F:396:ASP:O	2:F:401:ARG:NE	2.53	0.41
2:F:409:ILE:HG22	2:F:441:PHE:CE1	2.56	0.41
2:F:416:HIS:O	2:F:417:ASN:C	2.58	0.41
1:A:199:MET:HG2	1:A:244:PHE:HE2	1.85	0.41
1:A:238:SER:HA	1:A:241:LEU:HG	2.02	0.41
1:A:263:LEU:CD1	1:A:271:LEU:HD11	2.50	0.41
1:A:283:GLU:O	1:A:287:THR:HG23	2.20	0.41
1:A:352:LYS:HG2	1:A:355:ILE:HD12	2.02	0.41
1:A:401:LEU:HD12	1:A:576:LEU:HD11	2.03	0.41
1:A:426:LEU:HD21	1:A:460:LEU:HG	2.02	0.41
1:A:548:LYS:O	1:A:552:LEU:HG	2.20	0.41
1:B:147:PHE:HE1	1:B:225:PHE:CZ	2.37	0.41
1:B:350:GLU:HG3	1:D:347:ASN:OD1	2.20	0.41
1:C:43:ARG:O	1:C:46:THR:OG1	2.36	0.41
1:C:476:PHE:CZ	1:C:501:PHE:CG	3.08	0.41
1:D:199:MET:HE1	1:D:203:LYS:HE3	2.01	0.41
1:D:405:LEU:HD21	1:D:575:PRO:O	2.21	0.41
1:D:453:TYR:OH	1:D:559:PHE:HD1	2.02	0.41
1:D:467:GLU:HG2	1:D:471:ILE:HD12	2.02	0.41
1:D:504:LEU:CD2	1:D:550:GLU:HB3	2.51	0.41
1:D:694:ILE:CB	1:D:704:VAL:HG13	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:362:HIS:O	2:E:363:MET:HG2	2.19	0.41
2:E:393:HIS:HA	2:E:423:SER:OG	2.21	0.41
2:E:454:TYR:O	2:E:458:THR:OG1	2.29	0.41
2:F:298:PHE:HB3	2:F:330:MET:CG	2.51	0.41
2:F:320:ARG:HH22	2:F:457:GLU:CA	2.34	0.41
2:F:335:ILE:CG2	2:F:388:LEU:HB2	2.51	0.41
2:F:352:LEU:O	2:F:355:ILE:HG22	2.20	0.41
2:G:326:PHE:CE2	2:G:421:ILE:CD1	3.04	0.41
1:A:97:LEU:HA	1:A:242:HIS:CG	2.55	0.41
1:A:337:TYR:CD1	2:G:300:LYS:HE3	2.56	0.41
1:B:107:LEU:HD23	1:B:278:SER:HB2	2.03	0.41
1:B:150:LYS:O	1:B:151:LEU:C	2.58	0.41
1:B:162:ILE:O	1:B:162:ILE:HG22	2.20	0.41
1:B:248:LEU:CD1	1:B:250:PHE:CE1	3.03	0.41
1:B:255:SER:CB	1:B:256:PRO:CD	2.98	0.41
1:B:314:PHE:O	1:B:319:PHE:HD1	2.03	0.41
1:C:70:PHE:CZ	1:C:117:THR:HB	2.55	0.41
1:C:304:GLU:O	1:C:308:GLN:HG3	2.21	0.41
1:C:467:GLU:HG2	1:C:471:ILE:HD12	2.01	0.41
1:C:637:HIS:CD2	1:C:694:ILE:HG22	2.55	0.41
1:D:144:MET:SD	1:D:232:ASP:CB	3.09	0.41
1:D:423:THR:HG21	1:D:438:LEU:HD21	2.02	0.41
1:D:555:ASN:HB3	1:D:559:PHE:CE2	2.55	0.41
1:D:597:ARG:CZ	1:D:708:THR:OG1	2.69	0.41
1:D:685:VAL:HG11	1:D:704:VAL:HG21	2.01	0.41
2:E:295:GLU:HA	2:E:298:PHE:CG	2.56	0.41
2:E:335:ILE:HG22	2:E:388:LEU:HD13	2.03	0.41
2:E:369:ILE:HA	2:E:372:GLN:CG	2.51	0.41
2:E:409:ILE:O	2:E:413:SER:OG	2.36	0.41
2:E:433:TRP:HB3	2:E:438:GLN:HG3	2.02	0.41
2:F:304:GLN:HA	2:F:307:LEU:HD12	2.03	0.41
2:F:320:ARG:O	2:F:324:GLU:HB2	2.21	0.41
2:F:352:LEU:CA	2:F:355:ILE:HG22	2.50	0.41
1:A:43:ARG:HH11	1:A:336:PHE:C	2.23	0.41
1:A:69:LEU:HD22	1:A:277:GLN:O	2.20	0.41
1:A:153:SER:O	1:A:157:ASP:CG	2.59	0.41
1:A:202:LYS:C	1:A:206:THR:O	2.58	0.41
1:A:342:SER:CB	1:A:579:VAL:CG1	2.98	0.41
1:A:370:PRO:HA	1:A:373:ARG:HB2	2.02	0.41
1:A:419:LEU:HB2	1:A:567:TYR:OH	2.21	0.41
1:A:686:SER:O	1:A:690:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:67:LYS:O	1:B:71:ASP:HB2	2.21	0.41
1:B:209:GLN:OE1	1:B:211:GLN:O	2.38	0.41
1:B:250:PHE:HB3	1:B:252:ILE:HD11	2.01	0.41
1:B:288:VAL:O	1:B:292:LEU:N	2.43	0.41
1:B:484:GLU:HB3	1:D:392:ARG:NE	2.35	0.41
1:B:497:PHE:O	1:B:500:GLN:HB2	2.21	0.41
1:B:554:GLU:HA	1:B:557:VAL:HB	2.02	0.41
1:C:74:ILE:O	1:C:78:GLN:HB2	2.20	0.41
1:D:44:PHE:HZ	1:D:337:TYR:CZ	2.39	0.41
1:D:305:LYS:O	1:D:309:VAL:HG23	2.21	0.41
1:D:342:SER:CB	1:D:579:VAL:CG1	2.98	0.41
1:D:707:LEU:HD12	1:D:707:LEU:N	2.35	0.41
2:G:295:GLU:HA	2:G:298:PHE:CG	2.55	0.41
2:H:380:PHE:O	2:H:383:ASP:O	2.39	0.41
1:A:59:GLU:O	1:A:63:GLU:HG3	2.20	0.41
1:A:147:PHE:CE2	1:A:229:VAL:CG1	3.03	0.41
1:A:209:GLN:OE1	1:A:211:GLN:O	2.39	0.41
1:A:266:ALA:O	1:A:270:LEU:HG	2.21	0.41
1:A:314:PHE:HD2	1:A:324:PHE:HB2	1.85	0.41
1:A:402:LEU:HD21	1:A:576:LEU:HD13	2.02	0.41
1:A:695:LYS:HG3	1:A:696:PRO:CD	2.50	0.41
1:B:121:LEU:HD21	1:B:125:LEU:HD12	2.03	0.41
1:B:416:LEU:HD12	1:B:567:TYR:CD1	2.56	0.41
1:B:427:PRO:C	1:B:429:TYR:H	2.23	0.41
1:C:125:LEU:O	1:C:131:PRO:CG	2.67	0.41
1:C:196:ASP:HB2	1:C:197:PRO:HD3	2.03	0.41
1:C:408:TYR:CE2	1:C:574:GLN:HG3	2.56	0.41
1:C:476:PHE:HB3	1:C:480:LYS:CE	2.51	0.41
1:C:497:PHE:O	1:C:500:GLN:N	2.54	0.41
1:C:501:PHE:CD1	1:C:554:GLU:CD	2.94	0.41
1:C:586:HIS:O	1:C:590:GLU:HG3	2.20	0.41
1:C:588:LEU:O	1:C:591:HIS:N	2.52	0.41
1:D:147:PHE:HB2	1:D:233:PHE:CE1	2.56	0.41
1:D:152:ILE:CG2	1:D:197:PRO:HB2	2.50	0.41
1:D:350:GLU:O	1:D:354:ARG:HG2	2.20	0.41
1:D:393:TYR:O	1:D:397:GLU:HG3	2.21	0.41
1:D:453:TYR:CZ	1:D:563:LEU:HD13	2.56	0.41
1:D:476:PHE:CZ	1:D:501:PHE:CD2	3.09	0.41
1:D:563:LEU:HD23	1:D:567:TYR:CG	2.56	0.41
2:F:355:ILE:O	2:F:359:VAL:HG23	2.21	0.41
2:H:335:ILE:CG2	2:H:388:LEU:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:367:ARG:NH2	1:A:391:GLU:HG2	2.36	0.41
1:A:421:LYS:HB2	1:A:479:PHE:CZ	2.56	0.41
1:A:497:PHE:O	1:A:500:GLN:HB2	2.21	0.41
1:A:501:PHE:CD1	1:A:554:GLU:OE2	2.73	0.41
1:A:578:GLU:O	1:A:579:VAL:HB	2.21	0.41
1:B:482:TYR:CD1	1:B:486:HIS:CG	3.09	0.41
1:B:709:TRP:N	1:B:709:TRP:CD1	2.87	0.41
1:C:282:LYS:O	1:C:286:THR:HG23	2.21	0.41
1:C:418:CYS:O	1:C:422:PHE:CD2	2.74	0.41
1:C:419:LEU:HD23	1:C:438:LEU:HD23	2.02	0.41
1:C:600:LEU:HB3	1:C:693:PHE:HZ	1.86	0.41
1:D:694:ILE:HA	1:D:706:ARG:HA	2.03	0.41
2:F:342:PHE:CE1	2:F:343:PHE:CD1	3.09	0.41
2:G:355:ILE:O	2:G:359:VAL:HG23	2.20	0.41
2:H:445:TRP:N	2:H:445:TRP:CD1	2.88	0.41
1:A:144:MET:HE3	1:A:233:PHE:CE1	2.56	0.41
1:A:150:LYS:O	1:A:151:LEU:C	2.59	0.41
1:A:162:ILE:O	1:A:162:ILE:HG22	2.21	0.41
1:A:282:LYS:O	1:A:285:LEU:HB3	2.21	0.41
1:A:314:PHE:HA	1:A:318:ASP:O	2.21	0.41
1:A:335:HIS:HB2	1:A:582:PHE:CD1	2.56	0.41
1:A:423:THR:CG2	1:A:438:LEU:HD21	2.51	0.41
1:A:456:VAL:HA	1:A:459:LEU:HD12	2.02	0.41
1:A:476:PHE:CE2	1:A:501:PHE:CG	3.09	0.41
1:A:482:TYR:CD1	1:A:486:HIS:CG	3.09	0.41
1:A:700:LYS:HB3	1:A:703:HIS:CE1	2.56	0.41
1:B:50:ILE:HG12	1:B:298:PHE:CE1	2.55	0.41
1:B:131:PRO:HB3	1:B:214:PRO:O	2.21	0.41
1:B:202:LYS:C	1:B:206:THR:O	2.59	0.41
1:B:221:ASP:OD1	1:B:221:ASP:N	2.52	0.41
1:B:282:LYS:HE3	1:B:319:PHE:CE2	2.56	0.41
1:B:299:PRO:HB2	1:B:345:CYS:SG	2.61	0.41
1:B:370:PRO:HA	1:B:373:ARG:HB2	2.02	0.41
1:B:373:ARG:O	1:B:377:GLU:HG3	2.21	0.41
1:B:425:SER:OG	1:B:471:ILE:HD13	2.20	0.41
1:B:570:PRO:CD	1:B:571:PRO:HD3	2.51	0.41
1:C:97:LEU:HD22	1:C:242:HIS:CB	2.51	0.41
1:C:217:VAL:N	1:C:247:ILE:O	2.46	0.41
1:C:217:VAL:HG12	1:C:219:LEU:HD21	2.02	0.41
1:C:244:PHE:O	1:C:246:LEU:N	2.51	0.41
1:C:375:TYR:CZ	1:C:401:LEU:HD21	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:ASN:O	1:C:408:TYR:HD2	2.04	0.41
1:C:482:TYR:HA	1:C:486:HIS:HB2	2.03	0.41
1:D:122:THR:HA	1:D:133:VAL:HG23	2.03	0.41
1:D:152:ILE:HG12	1:D:198:LYS:N	2.34	0.41
1:D:238:SER:HA	1:D:241:LEU:CD1	2.51	0.41
1:D:248:LEU:CD1	1:D:250:PHE:CE1	3.04	0.41
1:D:252:ILE:HG22	1:D:253:ALA:N	2.35	0.41
1:D:554:GLU:HA	1:D:557:VAL:HB	2.03	0.41
1:D:572:GLU:O	1:D:573:THR:HG23	2.20	0.41
1:D:688:LEU:HD12	1:D:691:LEU:HD12	2.03	0.41
2:E:327:ARG:HA	2:E:331:LEU:HD12	2.03	0.41
2:E:355:ILE:HD11	2:E:388:LEU:HD21	2.03	0.41
2:E:446:TYR:HB2	2:E:448:THR:HG23	2.03	0.41
2:F:331:LEU:HD11	2:F:391:LEU:CD1	2.49	0.41
2:G:309:PHE:HB2	2:G:444:LEU:HD11	2.03	0.41
2:G:318:SER:HA	2:G:319:LYS:NZ	2.36	0.41
2:G:320:ARG:NE	2:G:456:GLU:HB2	2.36	0.41
1:A:126:GLN:HB3	1:A:162:ILE:CD1	2.51	0.41
1:A:199:MET:HE1	1:A:243:GLU:OE1	2.20	0.41
1:A:282:LYS:O	1:A:286:THR:HG23	2.21	0.41
1:A:306:VAL:O	1:A:310:LEU:HB2	2.21	0.41
1:A:332:LEU:HD23	1:A:336:PHE:HD2	1.86	0.41
1:B:118:PHE:HB3	1:B:220:LYS:HE2	2.03	0.41
1:B:139:LYS:C	1:B:141:CYS:H	2.24	0.41
1:B:144:MET:HE3	1:B:233:PHE:CZ	2.56	0.41
1:B:238:SER:HA	1:B:241:LEU:CD1	2.51	0.41
1:B:252:ILE:CD1	1:B:259:ILE:HD11	2.51	0.41
1:B:563:LEU:CA	1:B:567:TYR:HD2	2.34	0.41
1:C:103:ALA:O	1:C:250:PHE:HD2	2.04	0.41
1:C:151:LEU:CG	1:C:198:LYS:HD2	2.47	0.41
1:D:50:ILE:HG12	1:D:298:PHE:CD1	2.56	0.41
1:D:273:ILE:HG22	1:D:274:GLU:N	2.35	0.41
1:D:476:PHE:CD2	1:D:476:PHE:N	2.89	0.41
2:G:356:THR:OG1	2:G:365:THR:CG2	2.68	0.41
2:H:377:VAL:HG22	2:H:415:LEU:HD13	2.03	0.41
1:A:209:GLN:NE2	1:A:213:PRO:HG3	2.36	0.40
1:A:219:LEU:CB	1:A:222:MET:HG2	2.51	0.40
1:A:222:MET:HG3	1:A:250:PHE:HD1	1.83	0.40
1:A:252:ILE:HG22	1:A:253:ALA:N	2.36	0.40
1:A:350:GLU:HG3	1:C:347:ASN:OD1	2.21	0.40
1:A:555:ASN:O	1:A:558:ASN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:60:ARG:O	1:B:63:GLU:HB2	2.21	0.40
1:B:153:SER:O	1:B:157:ASP:CG	2.60	0.40
1:B:252:ILE:HG22	1:B:253:ALA:N	2.35	0.40
1:B:264:PRO:HG2	1:B:267:VAL:HG23	2.03	0.40
1:B:387:LEU:HD23	1:B:394:LEU:HA	2.03	0.40
1:B:589:ARG:HG3	1:B:593:ASN:OD1	2.22	0.40
1:B:689:GLU:CG	1:B:694:ILE:HD11	2.47	0.40
1:C:107:LEU:HD22	1:C:114:HIS:NE2	2.35	0.40
1:C:219:LEU:CD1	1:C:222:MET:SD	3.09	0.40
1:C:448:TRP:CZ2	1:C:559:PHE:CD1	3.09	0.40
1:C:480:LYS:O	1:C:484:GLU:HG3	2.19	0.40
1:C:683:ARG:HG3	1:C:687:GLU:OE2	2.22	0.40
1:C:688:LEU:O	1:C:693:PHE:N	2.55	0.40
1:C:694:ILE:CB	1:C:704:VAL:HG13	2.51	0.40
1:D:76:PHE:CG	1:D:276:PHE:CZ	3.09	0.40
1:D:279:LEU:HD22	1:D:283:GLU:OE1	2.20	0.40
1:D:321:VAL:O	1:D:325:ILE:HB	2.21	0.40
1:D:394:LEU:O	1:D:395:LYS:C	2.60	0.40
1:D:440:CYS:O	1:D:444:GLU:HG3	2.21	0.40
1:D:491:ALA:O	1:D:492:LYS:HB2	2.21	0.40
1:D:555:ASN:O	1:D:558:ASN:N	2.54	0.40
2:E:309:PHE:CE2	2:E:442:ASN:ND2	2.89	0.40
2:F:287:LEU:CD2	2:F:451:TYR:HB2	2.51	0.40
2:G:336:HIS:HA	2:G:389:PHE:O	2.21	0.40
2:H:340:ASN:HB2	2:H:343:PHE:CD2	2.57	0.40
2:H:352:LEU:O	2:H:365:THR:CG2	2.69	0.40
2:H:390:LEU:HG	2:H:419:TYR:O	2.21	0.40
1:A:97:LEU:HD23	1:A:242:HIS:CG	2.56	0.40
1:A:296:THR:CB	1:A:410:MET:SD	3.09	0.40
1:A:341:LEU:HD21	1:A:365:ASN:HB2	2.03	0.40
1:A:394:LEU:O	1:A:395:LYS:C	2.60	0.40
1:A:564:VAL:O	1:A:568:LEU:HD11	2.21	0.40
1:B:257:ILE:O	1:B:261:ARG:HG3	2.21	0.40
1:B:497:PHE:CD1	1:B:557:VAL:CG1	3.03	0.40
1:B:578:GLU:O	1:B:579:VAL:HB	2.20	0.40
1:C:144:MET:SD	1:C:229:VAL:HA	2.61	0.40
1:C:238:SER:HA	1:C:241:LEU:CG	2.51	0.40
1:C:343:VAL:HG13	1:C:354:ARG:HH11	1.87	0.40
1:D:191:VAL:HG12	1:D:191:VAL:O	2.22	0.40
1:D:310:LEU:HB3	1:D:324:PHE:HE1	1.86	0.40
1:D:472:LEU:O	1:D:476:PHE:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:599:ALA:O	1:D:603:ALA:HB2	2.21	0.40
1:D:600:LEU:HB3	1:D:693:PHE:HZ	1.86	0.40
2:E:318:SER:HB2	2:E:454:TYR:H	1.86	0.40
2:E:331:LEU:HB3	2:E:336:HIS:CE1	2.57	0.40
2:E:340:ASN:O	2:E:343:PHE:HB2	2.21	0.40
2:E:347:SER:O	2:E:350:SER:N	2.55	0.40
2:F:352:LEU:HA	2:F:355:ILE:CG2	2.50	0.40
2:G:319:LYS:HE3	2:G:423:SER:CB	2.51	0.40
2:G:433:TRP:HB3	2:G:438:GLN:CG	2.51	0.40
2:H:341:GLY:N	2:H:393:HIS:O	2.45	0.40
2:H:396:ASP:O	2:H:401:ARG:NE	2.55	0.40
1:A:221:ASP:OD1	1:A:221:ASP:N	2.51	0.40
1:A:552:LEU:O	1:A:556:VAL:CG2	2.69	0.40
1:A:685:VAL:O	1:A:689:GLU:HG3	2.21	0.40
1:B:109:VAL:O	1:B:109:VAL:HG22	2.21	0.40
1:B:151:LEU:HA	1:B:198:LYS:HZ2	1.86	0.40
1:B:386:ALA:CB	1:B:393:TYR:HB3	2.51	0.40
1:B:419:LEU:HB2	1:B:567:TYR:OH	2.21	0.40
1:B:420:HIS:CD2	1:B:435:ILE:HG12	2.56	0.40
1:B:504:LEU:CD1	1:B:554:GLU:CD	2.89	0.40
1:C:126:GLN:HB3	1:C:162:ILE:HD11	2.03	0.40
1:C:504:LEU:CD1	1:C:554:GLU:OE1	2.69	0.40
1:C:645:ASN:HA	1:C:703:HIS:NE2	2.36	0.40
1:C:700:LYS:HD3	1:C:703:HIS:NE2	2.35	0.40
1:D:152:ILE:HG21	1:D:197:PRO:HD2	2.03	0.40
1:D:241:LEU:HB3	1:D:242:HIS:CD2	2.57	0.40
1:D:364:GLU:O	1:D:368:ARG:HG3	2.21	0.40
1:D:415:VAL:O	1:D:567:TYR:CE1	2.75	0.40
1:D:472:LEU:O	1:D:475:CYS:HB2	2.21	0.40
1:D:709:TRP:CD1	1:D:709:TRP:N	2.89	0.40
2:E:326:PHE:CE2	2:E:421:ILE:CD1	3.05	0.40
2:E:397:SER:CB	2:E:400:LEU:H	2.34	0.40
2:F:369:ILE:HG21	2:F:408:ILE:HG12	2.02	0.40
2:F:373:LEU:O	2:F:377:VAL:HG23	2.21	0.40
2:F:455:THR:CA	2:F:458:THR:HB	2.52	0.40
2:G:393:HIS:HA	2:G:423:SER:OG	2.21	0.40
2:G:445:TRP:CD1	2:G:445:TRP:N	2.89	0.40
2:H:356:THR:OG1	2:H:365:THR:CG2	2.70	0.40
1:A:55:LYS:HA	1:A:58:ASN:HB2	2.03	0.40
1:A:199:MET:CE	1:A:243:GLU:OE1	2.69	0.40
1:A:208:SER:HB2	1:A:210:TRP:CE2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:LEU:HD13	1:B:222:MET:SD	2.62	0.40
1:B:404:ASN:HB2	1:B:574:GLN:NE2	2.36	0.40
1:C:74:ILE:HD13	1:C:128:ASN:OD1	2.22	0.40
2:E:400:LEU:HD22	2:E:409:ILE:CD1	2.52	0.40
2:E:438:GLN:O	2:E:441:PHE:O	2.39	0.40
2:F:397:SER:CB	2:F:398:GLN:CA	2.99	0.40
2:F:446:TYR:HB2	2:F:448:THR:HG23	2.04	0.40
2:G:309:PHE:CE2	2:G:442:ASN:OD1	2.75	0.40
2:G:420:LEU:HD21	2:G:443:TRP:HH2	1.86	0.40
2:H:331:LEU:HD11	2:H:391:LEU:CG	2.51	0.40
1:A:106:VAL:HG13	1:A:253:ALA:O	2.20	0.40
1:A:135:SER:HB2	1:A:220:LYS:HE3	2.02	0.40
1:A:227:THR:HA	1:A:230:LEU:HB3	2.04	0.40
1:A:257:ILE:HG22	1:A:261:ARG:NE	2.36	0.40
1:A:284:HIS:HA	1:A:287:THR:OG1	2.22	0.40
1:A:306:VAL:HG12	1:A:585:ALA:CB	2.52	0.40
1:A:349:PRO:HG2	1:C:347:ASN:CG	2.42	0.40
1:A:480:LYS:HG2	1:A:498:LEU:HD22	2.03	0.40
1:B:102:THR:HA	1:B:247:ILE:HG23	2.04	0.40
1:B:342:SER:O	1:B:345:CYS:CB	2.70	0.40
1:B:347:ASN:HD21	1:D:353:ARG:NH2	2.19	0.40
1:B:421:LYS:HE3	1:B:479:PHE:CE1	2.56	0.40
1:B:476:PHE:CZ	1:B:501:PHE:CD1	3.09	0.40
1:B:591:HIS:O	2:E:445:TRP:HD1	2.05	0.40
1:C:306:VAL:HG12	1:C:585:ALA:CB	2.52	0.40
1:C:378:LYS:O	1:C:379:GLN:HB2	2.21	0.40
1:C:479:PHE:HA	1:C:482:TYR:CD2	2.56	0.40
1:C:501:PHE:CE1	1:C:554:GLU:HB3	2.57	0.40
1:D:248:LEU:CD1	1:D:250:PHE:CZ	3.05	0.40
1:D:263:LEU:CD1	1:D:271:LEU:HD11	2.52	0.40
1:D:636:LEU:HD11	1:D:657:VAL:HG21	2.04	0.40
1:D:657:VAL:HG12	1:D:677:ILE:HD11	2.02	0.40
2:E:332:GLN:O	2:E:333:ASP:C	2.60	0.40
2:G:310:ASN:HB3	2:G:420:LEU:O	2.22	0.40
2:G:331:LEU:HD11	2:G:391:LEU:CG	2.51	0.40
2:G:332:GLN:O	2:G:333:ASP:C	2.60	0.40
2:G:350:SER:HA	2:G:353:ASN:HB2	2.04	0.40
2:G:388:LEU:O	2:G:418:ILE:HA	2.21	0.40
2:H:332:GLN:O	2:H:333:ASP:C	2.59	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [\(i\)](#)

5.3.1 Protein backbone [\(i\)](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	541/712 (76%)	460 (85%)	72 (13%)	9 (2%)	9	42
1	B	541/712 (76%)	463 (86%)	72 (13%)	6 (1%)	14	52
1	C	541/712 (76%)	462 (85%)	72 (13%)	7 (1%)	12	48
1	D	541/712 (76%)	464 (86%)	70 (13%)	7 (1%)	12	48
2	E	181/347 (52%)	161 (89%)	20 (11%)	0	100	100
2	F	181/347 (52%)	161 (89%)	20 (11%)	0	100	100
2	G	181/347 (52%)	161 (89%)	20 (11%)	0	100	100
2	H	181/347 (52%)	163 (90%)	18 (10%)	0	100	100
All	All	2888/4236 (68%)	2495 (86%)	364 (13%)	29 (1%)	15	54

All (29) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	129	VAL
1	A	130	THR
1	A	383	LYS
1	B	129	VAL
1	B	383	LYS
1	C	129	VAL
1	C	382	GLU
1	D	129	VAL
1	D	382	GLU
1	D	579	VAL
1	A	190	THR
1	A	381	SER
1	A	579	VAL
1	A	640	CYS
1	B	190	THR
1	B	579	VAL
1	B	640	CYS

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Mol	Chain	Res	Type
1	C	190	THR
1	C	579	VAL
1	C	640	CYS
1	D	190	THR
1	A	131	PRO
1	C	379	GLN
1	D	640	CYS
1	D	379	GLN
1	C	570	PRO
1	D	570	PRO
1	A	570	PRO
1	B	570	PRO

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	517/659 (78%)	504 (98%)	13 (2%)	47	68
1	B	517/659 (78%)	505 (98%)	12 (2%)	50	71
1	C	517/659 (78%)	506 (98%)	11 (2%)	53	72
1	D	517/659 (78%)	505 (98%)	12 (2%)	50	71
2	E	171/323 (53%)	168 (98%)	3 (2%)	59	77
2	F	171/323 (53%)	168 (98%)	3 (2%)	59	77
2	G	171/323 (53%)	166 (97%)	5 (3%)	42	64
2	H	171/323 (53%)	168 (98%)	3 (2%)	59	77
All	All	2752/3928 (70%)	2690 (98%)	62 (2%)	50	71

All (62) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	199	MET
1	A	225	PHE
1	A	248	LEU

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Mol	Chain	Res	Type
1	A	272	CYS
1	A	325	ILE
1	A	342	SER
1	A	381	SER
1	A	394	LEU
1	A	457	LEU
1	A	570	PRO
1	A	683	ARG
1	A	704	VAL
1	A	706	ARG
1	B	199	MET
1	B	225	PHE
1	B	248	LEU
1	B	342	SER
1	B	347	ASN
1	B	381	SER
1	B	394	LEU
1	B	416	LEU
1	B	457	LEU
1	B	683	ARG
1	B	704	VAL
1	B	706	ARG
1	C	110	ASN
1	C	225	PHE
1	C	325	ILE
1	C	342	SER
1	C	346	CYS
1	C	381	SER
1	C	394	LEU
1	C	416	LEU
1	C	457	LEU
1	C	704	VAL
1	C	706	ARG
1	D	110	ASN
1	D	199	MET
1	D	225	PHE
1	D	248	LEU
1	D	318	ASP
1	D	342	SER
1	D	381	SER
1	D	394	LEU
1	D	416	LEU

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Mol	Chain	Res	Type
1	D	457	LEU
1	D	637	HIS
1	D	706	ARG
2	E	388	LEU
2	E	423	SER
2	E	457	GLU
2	F	418	ILE
2	F	423	SER
2	F	457	GLU
2	G	388	LEU
2	G	418	ILE
2	G	423	SER
2	G	442	ASN
2	G	457	GLU
2	H	418	ILE
2	H	423	SER
2	H	457	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	347	ASN
1	A	384	GLN
1	B	110	ASN
1	B	209	GLN
1	B	242	HIS
1	C	384	GLN
1	D	242	HIS
1	D	384	GLN
2	F	435	HIS
2	H	442	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

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	553/712 (77%)	0.03	20 (3%) 42 38	214, 295, 363, 401	0
1	B	553/712 (77%)	0.12	21 (3%) 40 36	208, 300, 363, 410	0
1	C	553/712 (77%)	0.27	33 (5%) 21 21	219, 302, 365, 407	0
1	D	553/712 (77%)	0.22	29 (5%) 27 27	227, 299, 363, 406	0
2	E	183/347 (52%)	-0.02	4 (2%) 62 54	256, 307, 348, 381	0
2	F	183/347 (52%)	0.11	7 (3%) 40 36	254, 310, 353, 374	0
2	G	183/347 (52%)	0.07	10 (5%) 25 25	250, 306, 352, 375	0
2	H	183/347 (52%)	0.06	3 (1%) 72 64	248, 310, 349, 376	0
All	All	2944/4236 (69%)	0.13	127 (4%) 35 32	208, 303, 360, 410	0

All (127) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	164	SER	7.9
1	C	164	SER	5.1
1	D	163	LYS	5.0
2	G	463	SER	4.9
1	C	81	HIS	4.4
2	E	463	SER	4.2
1	B	643	LEU	4.1
1	A	700	LYS	4.1
1	C	161	ASP	4.0
1	B	163	LYS	4.0
1	A	643	LEU	4.0
2	G	338	VAL	3.9
1	A	642	ARG	3.9
2	G	284	SER	3.9
1	B	642	ARG	3.8
1	C	163	LYS	3.8

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Mol	Chain	Res	Type	RSRZ
1	D	465	LYS	3.7
2	G	337	VAL	3.7
1	B	700	LYS	3.6
1	C	162	ILE	3.6
1	B	140	ASP	3.6
1	A	699	GLN	3.6
1	B	698	LYS	3.5
1	A	110	ASN	3.4
1	C	77	LEU	3.4
1	D	204	ARG	3.4
1	D	109	VAL	3.3
2	G	367	ARG	3.3
1	C	205	THR	3.3
1	D	162	ILE	3.3
1	A	81	HIS	3.3
1	A	109	VAL	3.3
1	C	78	GLN	3.2
1	B	164	SER	3.2
1	D	700	LYS	3.1
1	D	193	GLN	3.1
1	C	157	ASP	3.1
1	B	159	CYS	3.1
1	C	699	GLN	3.0
2	E	464	LEU	3.0
1	D	161	ASP	3.0
1	B	699	GLN	2.9
2	G	344	PRO	2.9
1	B	110	ASN	2.9
1	A	209	GLN	2.9
1	C	255	SER	2.8
1	C	204	ARG	2.8
1	C	676	ILE	2.8
1	B	142	PRO	2.7
1	A	240	HIS	2.7
1	C	708	THR	2.7
2	E	362	HIS	2.7
1	A	80	SER	2.7
1	D	81	HIS	2.7
1	D	143	ASP	2.7
1	C	656	VAL	2.6
1	C	657	VAL	2.6
1	D	240	HIS	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	211	GLN	2.6
1	B	197	PRO	2.6
1	D	676	ILE	2.6
2	F	462	ASN	2.5
1	D	122	THR	2.5
1	A	254	THR	2.5
1	A	140	ASP	2.5
2	G	464	LEU	2.5
1	B	137	GLN	2.5
1	D	657	VAL	2.5
1	B	210	TRP	2.5
2	F	292	GLN	2.5
1	C	160	VAL	2.5
2	F	466	VAL	2.5
2	H	460	TYR	2.5
1	A	701	THR	2.4
1	C	700	LYS	2.4
1	A	196	ASP	2.4
1	C	253	ALA	2.4
1	D	656	VAL	2.4
1	B	162	ILE	2.4
1	C	200	LEU	2.3
1	B	209	GLN	2.3
2	F	344	PRO	2.3
1	D	641	SER	2.3
1	A	137	GLN	2.3
1	D	77	LEU	2.3
1	D	78	GLN	2.3
1	D	114	HIS	2.3
1	D	108	GLY	2.3
1	C	127	ASN	2.3
1	C	254	THR	2.3
1	D	270	LEU	2.2
1	C	109	VAL	2.2
1	C	698	LYS	2.2
1	D	191	VAL	2.2
1	D	642	ARG	2.2
1	B	656	VAL	2.2
1	C	244	PHE	2.2
1	A	465	LYS	2.2
2	G	462	ASN	2.2
1	C	193	GLN	2.2

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Mol	Chain	Res	Type	RSRZ
1	C	337	TYR	2.2
1	C	504	LEU	2.2
1	B	240	HIS	2.2
2	F	465	LEU	2.1
1	C	140	ASP	2.1
1	A	693	PHE	2.1
1	B	254	THR	2.1
1	D	489	SER	2.1
2	G	345	GLY	2.1
1	D	110	ASN	2.1
2	G	451	TYR	2.1
1	B	196	ASP	2.1
2	F	359	VAL	2.1
1	C	240	HIS	2.1
1	C	108	GLY	2.1
2	E	367	ARG	2.1
1	C	192	THR	2.1
1	C	653	PHE	2.0
1	A	709	TRP	2.0
2	F	348	VAL	2.0
1	D	196	ASP	2.0
1	A	139	LYS	2.0
1	A	595	ALA	2.0
2	H	463	SER	2.0
1	D	680	ARG	2.0
2	H	432	MET	2.0
1	D	504	LEU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers

There are no such residues in this entry.