Full wwPDB X-ray Structure Validation Report (i)

May 23, 2016 – 06:18 PM EDT

PDB ID	:	5EXR
Title	:	Crystal structure of human primosome
Authors	:	Tahirov, T.H.; Baranovskiy, A.G.; Babayeva, N.D.
Deposited on	:	2015-11-24
Resolution	:	3.60 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
http://wwpdb.org/validation/2016/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

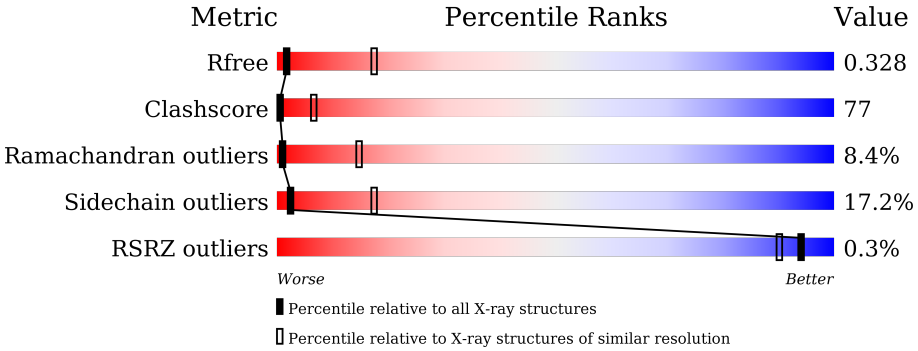
MolProbity	:	4.02b-467
Mogul	:	1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20027674
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	rb-20027674

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 3.60 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}	91344	1408 (3.80-3.40)
Clashscore	102246	1010 (3.74-3.46)
Ramachandran outliers	100387	1007 (3.76-3.44)
Sidechain outliers	100360	1007 (3.76-3.44)
RSRZ outliers	91569	1003 (3.78-3.42)

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 on the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. 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 <=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	420	3%; 21%, 63%, 9%, 7%
1	E	420	23%, 62%, 8%, 7%
2	B	509	20%, 48%, 16%, •, 15%
2	F	509	17%, 50%, 17%, •, 15%
3	C	1128	21%, 54%, 18%, •, 6%
3	G	1128	21%, 53%, 18%, •, 6%

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Mol	Chain	Length	Quality of chain
4	D	597	21% 38% 13% • 26%
4	H	597	18% 41% 14% • 26%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
6	SF4	B	601	-	-	X	-

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 37658 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 DNA primase small subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	389	3261	2099	564	583	15	0	0	0
1	E	389	3261	2099	564	583	15	0	0	0

- Molecule 2 is a protein called DNA primase large subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	434	3562	2280	616	653	13	0	0	0
2	F	434	3562	2280	616	653	13	0	0	0

- Molecule 3 is a protein called DNA polymerase alpha catalytic subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	1057	8544	5477	1433	1578	56	0	0	0
3	G	1057	8544	5477	1433	1578	56	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	516	ALA	VAL	engineered mutation	UNP P09884
G	516	ALA	VAL	engineered mutation	UNP P09884

- Molecule 4 is a protein called DNA polymerase alpha subunit B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	D	444	3451	2194	576	666	15	0	0	0

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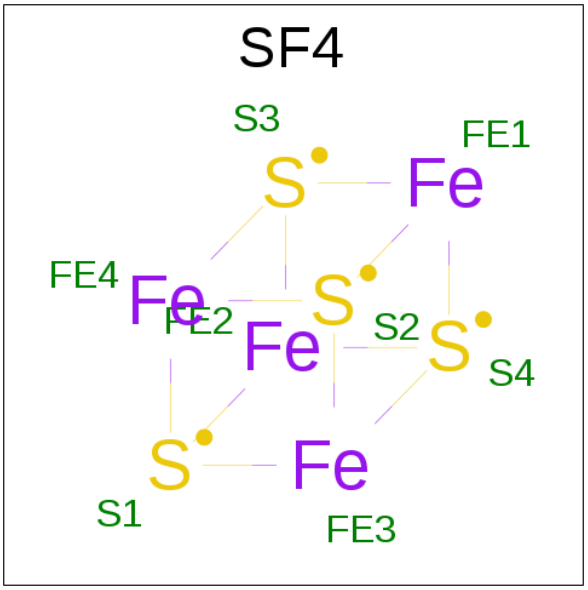
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	H	444	3451	2194	576	666	15	0	0	0

- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
5	G	2	2	2	0	0
5	A	1	1	1	0	0
5	C	2	2	2	0	0
5	E	1	1	1	0	0

- Molecule 6 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4).



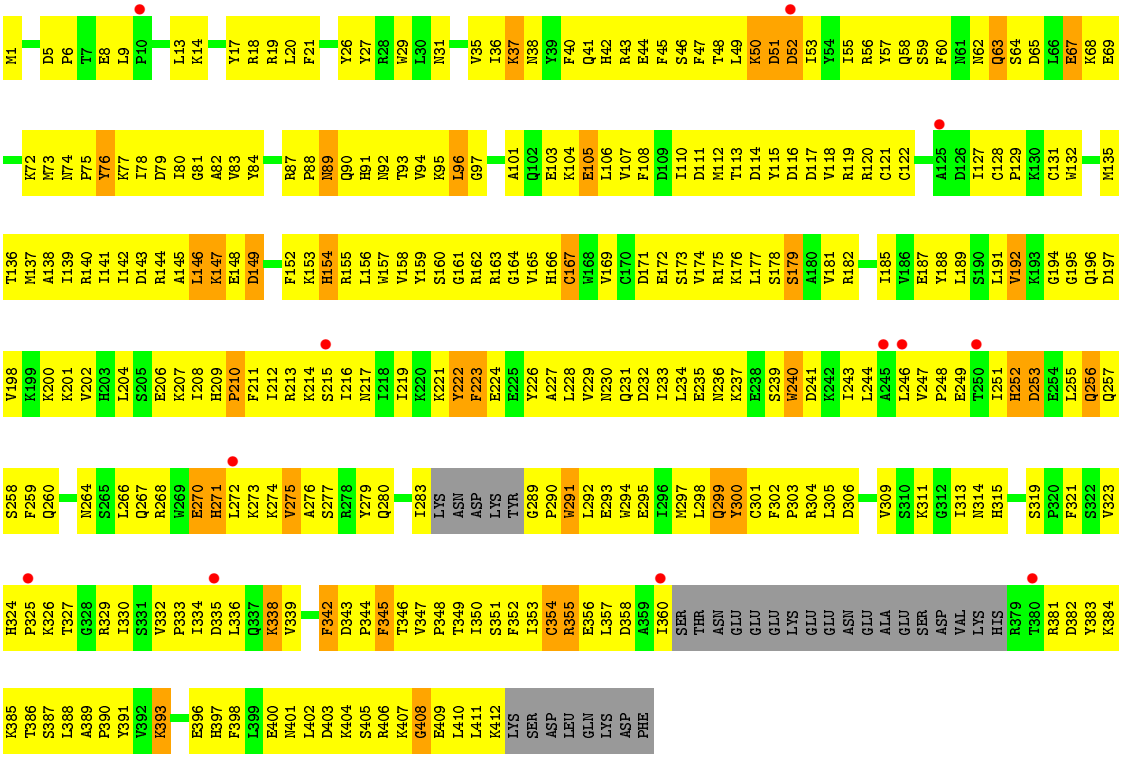
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	Fe	S		
6	B	1	8	4	4	0	0
6	F	1	8	4	4	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

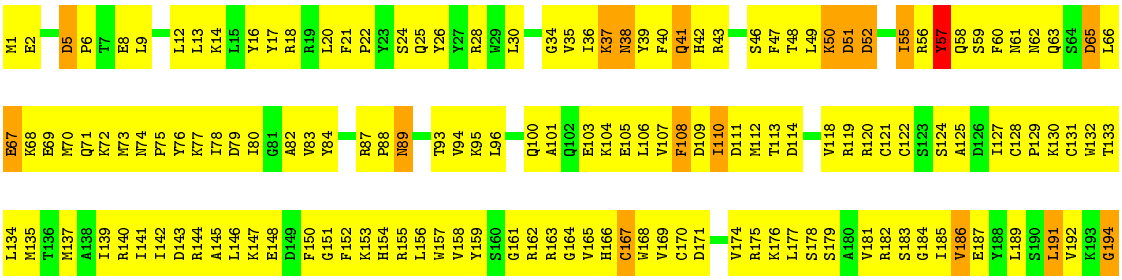
- Molecule 1: DNA primase small subunit

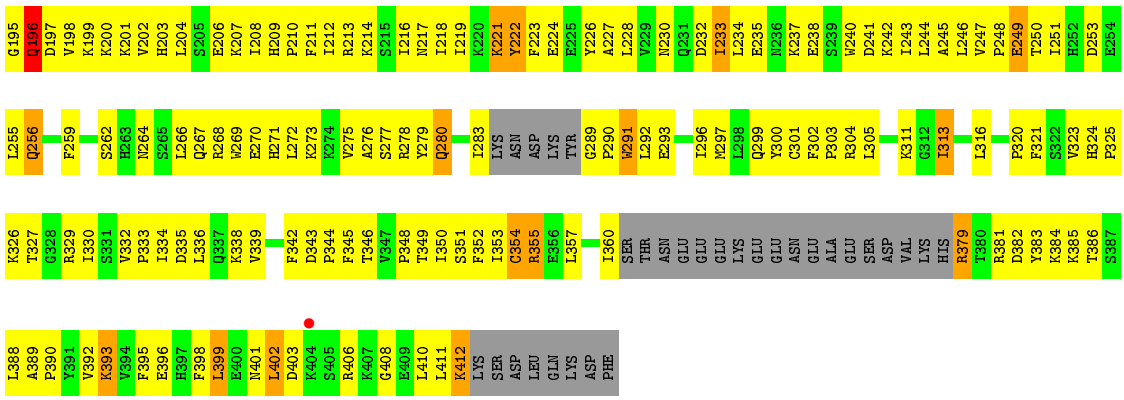
Chain A: 3% 21% 63% 9% 7%



- Molecule 1: DNA primase small subunit

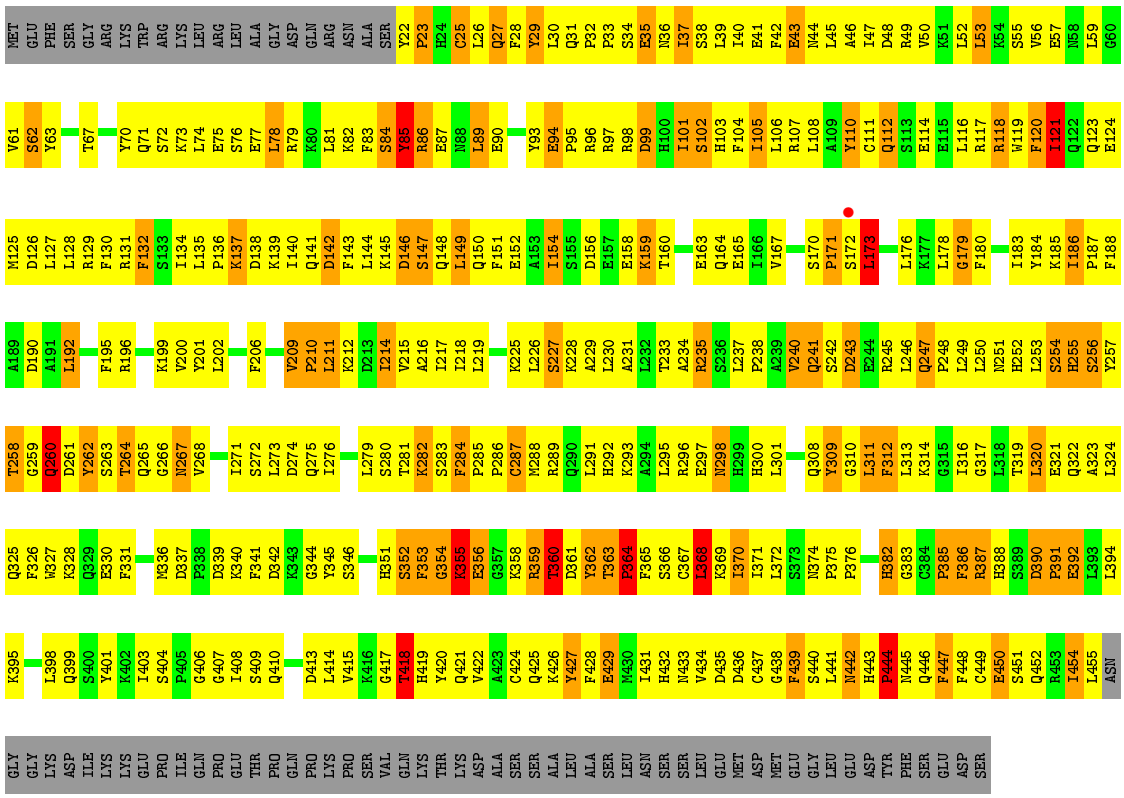
Chain E: 23% 62% 8% 7%





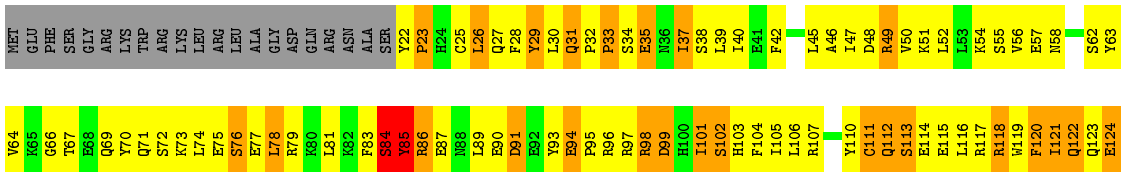
- Molecule 2: DNA primase large subunit

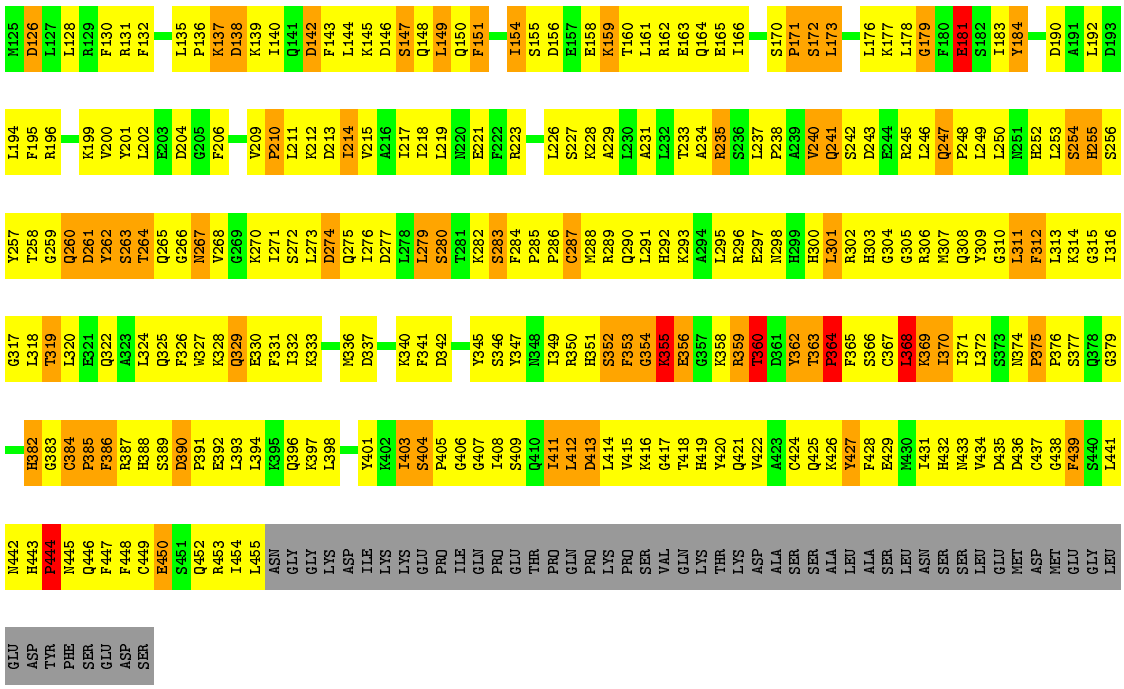
Chain B: 20% 48% 16% • 15%



- Molecule 2: DNA primase large subunit

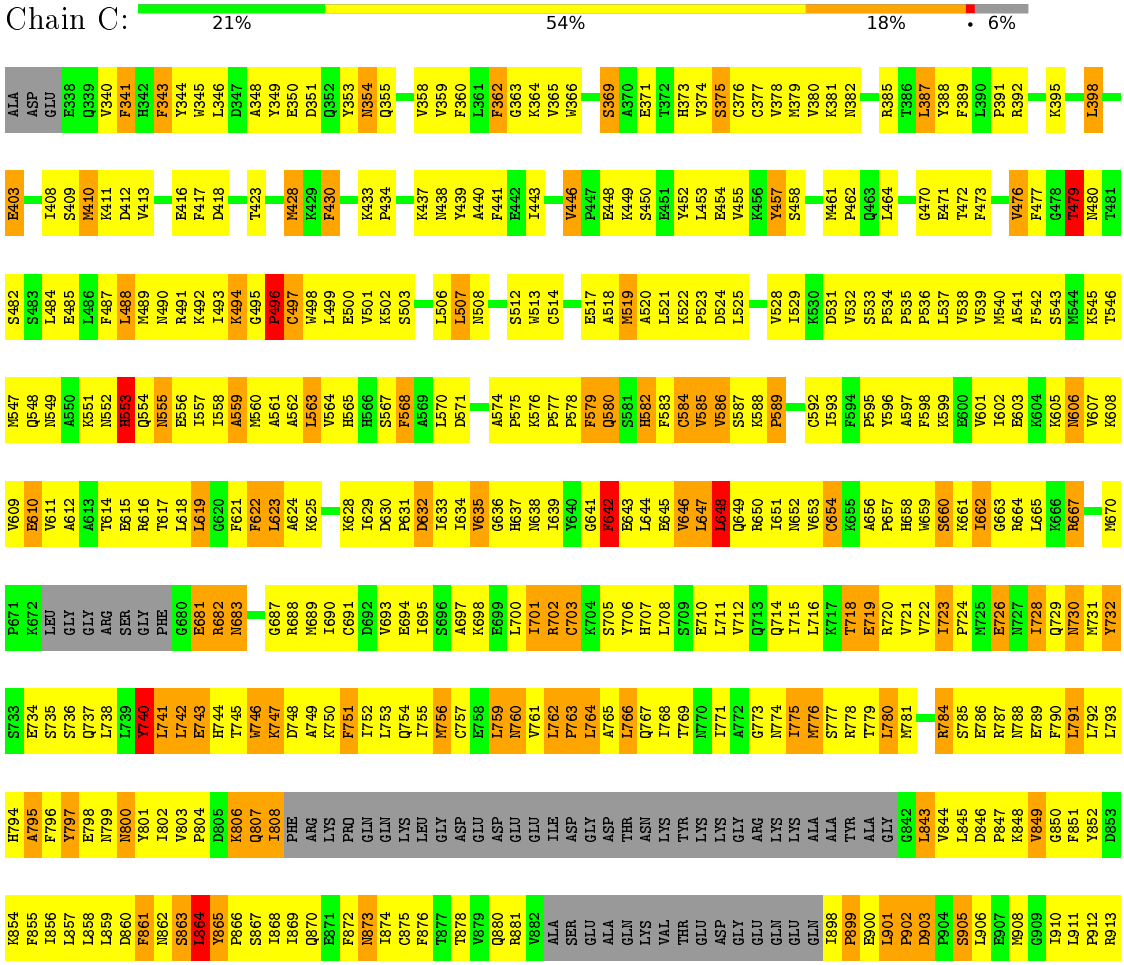
Chain F: 17% 50% 17% • 15%

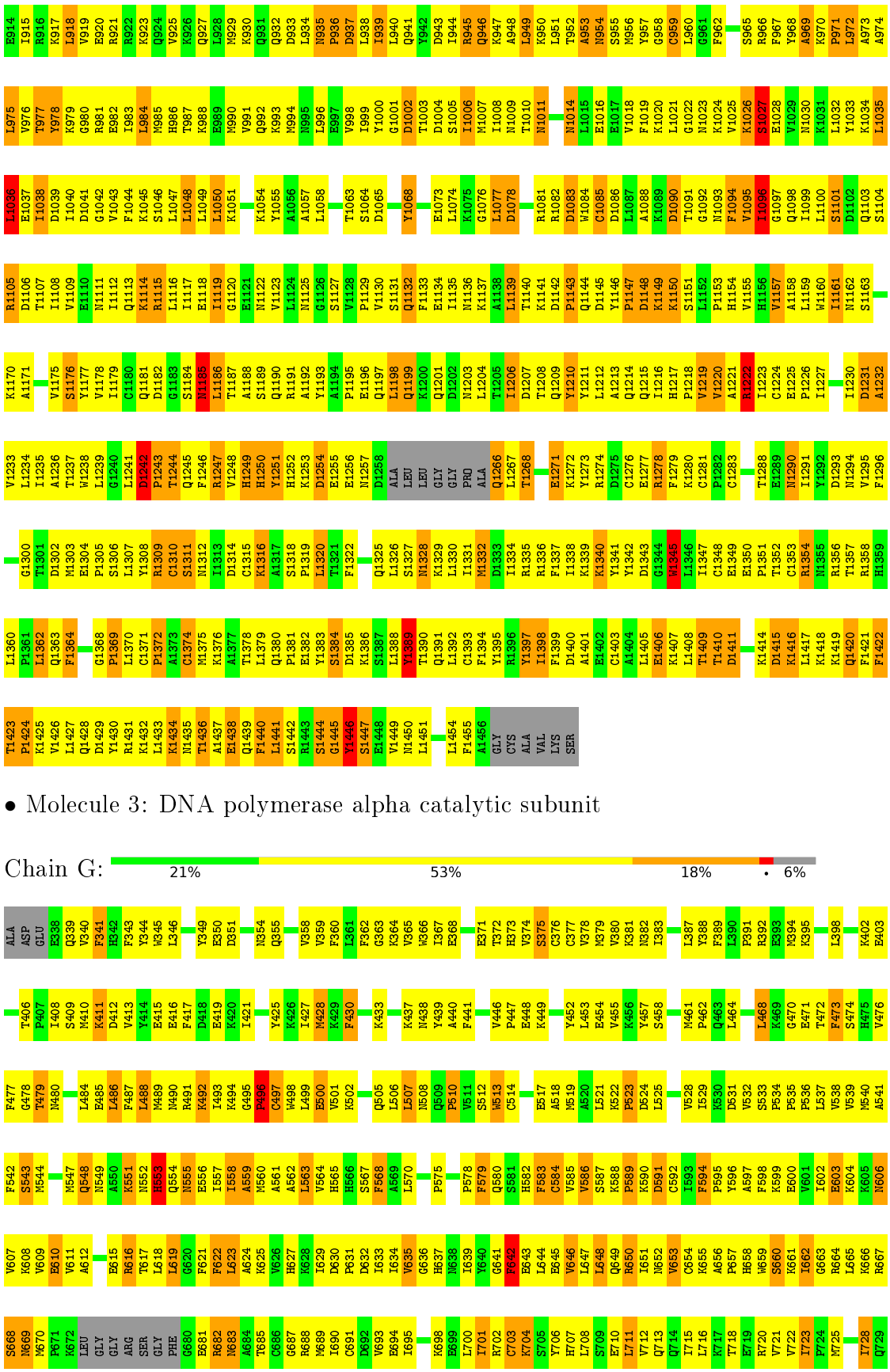




- Molecule 3: DNA polymerase alpha catalytic subunit

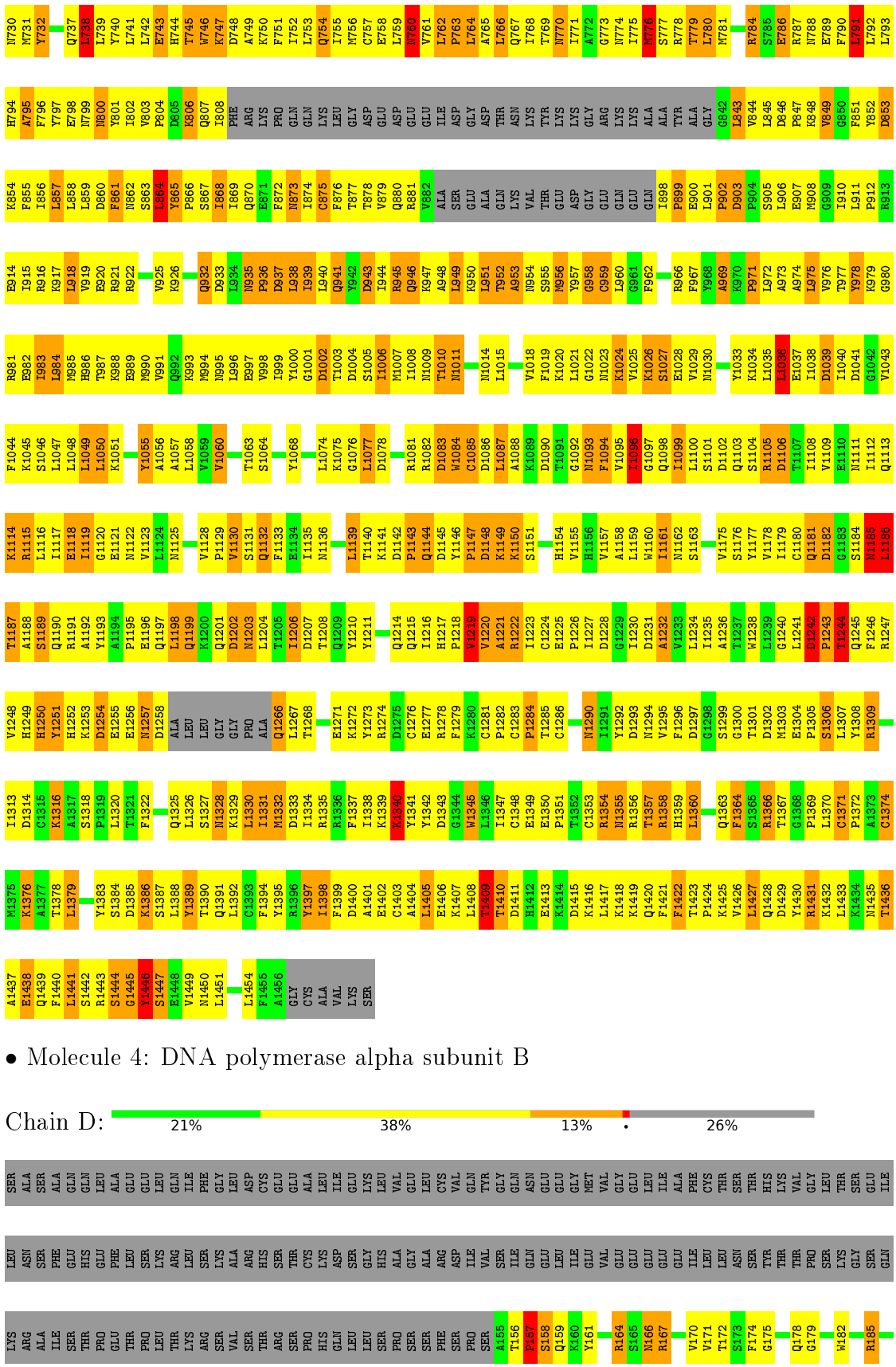
Chain C:





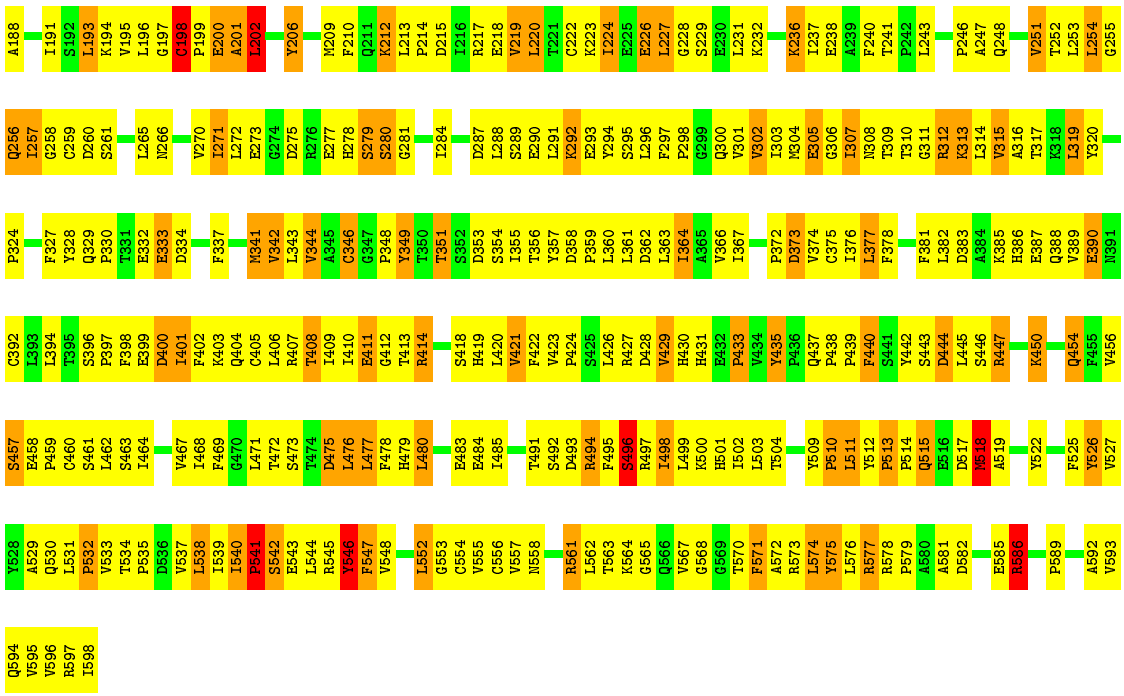
• Molecule 3: DNA polymerase alpha catalytic subunit

Chain G: 21% 53% 18% • 6%



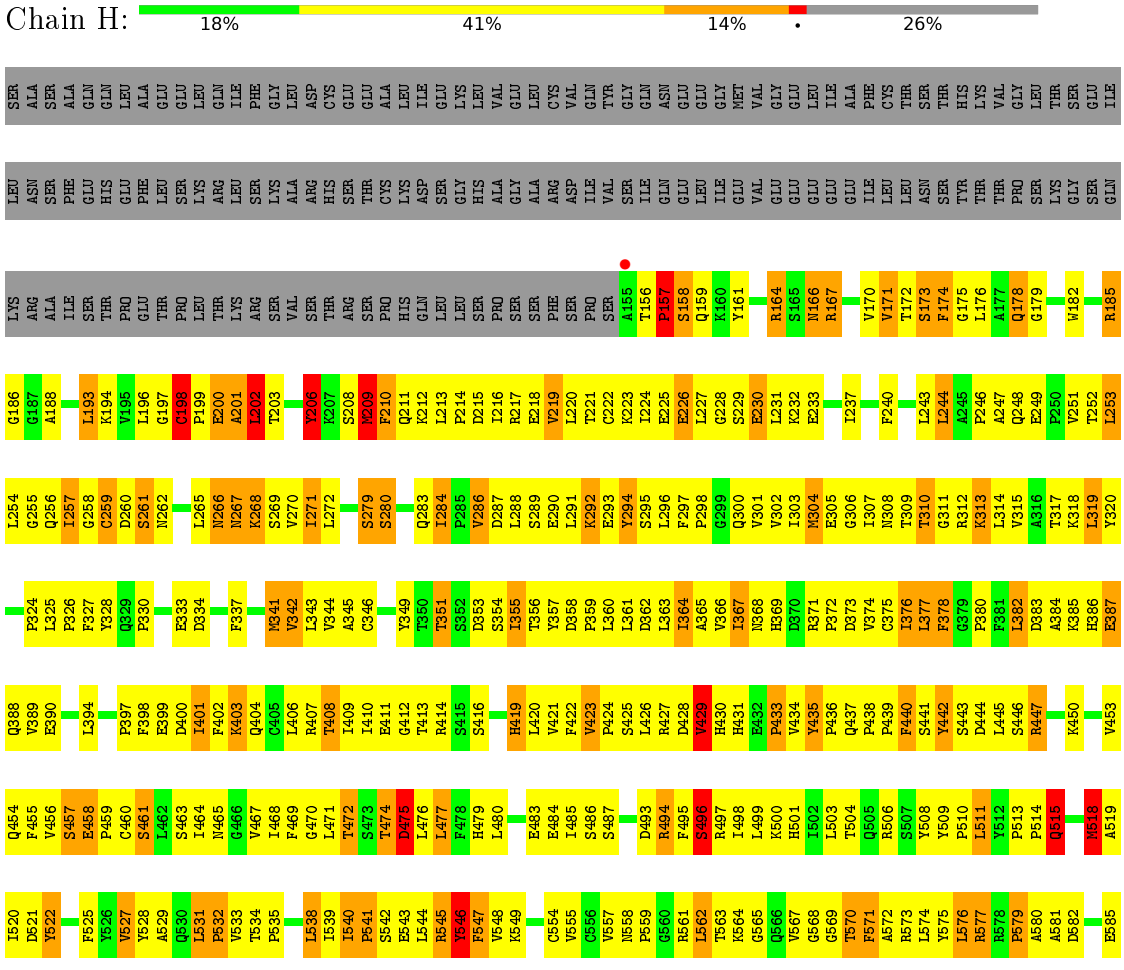
- Molecule 4: DNA polymerase alpha subunit B

Chain D:



- Molecule 4: DNA polymerase alpha subunit B

Chain H:



R586
Q587
S588
P589
C590
T591
A592
V593
Q594
V595
V596
R597
I598

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	113.10Å 210.16Å 172.56Å 90.00° 93.56° 90.00°	Depositor
Resolution (Å)	39.94 – 3.60 49.73 – 3.30	Depositor EDS
% Data completeness (in resolution range)	68.9 (39.94-3.60) 73.5 (49.73-3.30)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.36 (at 3.33Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.268 , 0.326 0.276 , 0.328	Depositor DCC
R_{free} test set	3695 reflections (5.28%)	DCC
Wilson B-factor (Å^2)	78.1	Xtriage
Anisotropy	0.047	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.29 , 69.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.42$, $< L^2 > = 0.24$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.86	EDS
Total number of atoms	37658	wwPDB-VP
Average B, all atoms (Å^2)	61.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 44.59 % 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 1.4935e-04.The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

[1]Intensities estimated from amplitudes.

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

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, SF4

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	0.51	0/3343	0.72	0/4508
1	E	0.48	0/3343	0.67	0/4508
2	B	0.57	0/3646	0.82	5/4908 (0.1%)
2	F	0.57	0/3646	0.80	3/4908 (0.1%)
3	C	0.58	0/8724	0.83	3/11788 (0.0%)
3	G	0.58	1/8724 (0.0%)	0.83	5/11788 (0.0%)
4	D	0.61	0/3529	0.86	2/4795 (0.0%)
4	H	0.60	0/3529	0.86	3/4795 (0.1%)
All	All	0.57	1/38484 (0.0%)	0.81	21/51998 (0.0%)

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
2	B	0	2
2	F	0	1
3	C	0	1
3	G	0	1
4	D	0	1
4	H	0	1
All	All	0	7

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	G	1371	CYS	CB-SG	-5.25	1.73	1.81

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	368	LEU	CA-CB-CG	-7.73	97.53	115.30
2	B	368	LEU	CA-CB-CG	-7.12	98.92	115.30
4	D	202	LEU	CA-CB-CG	6.87	131.10	115.30
4	H	202	LEU	CA-CB-CG	6.48	130.21	115.30
3	C	742	LEU	CA-CB-CG	-6.32	100.76	115.30
3	G	553	HIS	N-CA-C	6.23	127.82	111.00
3	C	553	HIS	N-CA-C	6.13	127.56	111.00
3	G	1405	LEU	CA-CB-CG	-6.13	101.19	115.30
3	C	1447	SER	N-CA-C	-6.01	94.76	111.00
3	G	1447	SER	N-CA-C	-5.97	94.88	111.00
3	G	738	LEU	CA-CB-CG	-5.93	101.65	115.30
2	F	355	LYS	N-CA-C	5.86	126.82	111.00
4	H	377	LEU	CA-CB-CG	-5.67	102.27	115.30
2	B	355	LYS	N-CA-C	5.62	126.19	111.00
2	B	89	LEU	CA-CB-CG	5.30	127.49	115.30
2	F	354	GLY	N-CA-C	5.12	125.89	113.10
4	H	284	ILE	CG1-CB-CG2	-5.10	100.18	111.40
2	B	53	LEU	CA-CB-CG	-5.10	103.57	115.30
2	B	354	GLY	N-CA-C	5.10	125.84	113.10
4	D	377	LEU	CA-CB-CG	-5.03	103.74	115.30
3	G	1252	HIS	N-CA-C	-5.00	97.49	111.00

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	110	TYR	Sidechain
2	B	309	TYR	Sidechain
3	C	740	TYR	Sidechain
4	D	349	TYR	Sidechain
2	F	110	TYR	Sidechain
3	G	452	TYR	Sidechain
4	H	442	TYR	Sidechain

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	3261	0	3247	444	0
1	E	3261	0	3247	419	0
2	B	3562	0	3542	548	0
2	F	3562	0	3542	557	0
3	C	8544	0	8632	1431	0
3	G	8544	0	8634	1426	0
4	D	3451	0	3425	535	0
4	H	3451	0	3425	532	0
5	A	1	0	0	0	0
5	C	2	0	0	0	0
5	E	1	0	0	0	0
5	G	2	0	0	0	0
6	B	8	0	0	3	0
6	F	8	0	0	0	0
All	All	37658	0	37694	5765	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 77.

All (5765) 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)
3:G:858:LEU:HD13	3:G:1007:MET:HG3	1.23	1.21
2:B:209:VAL:HG12	2:B:210:PRO:HD2	1.25	1.19
3:C:730:ASN:ND2	3:C:730:ASN:H	1.28	1.19
4:D:476:LEU:HD11	4:D:502:ILE:HD11	1.22	1.14
1:E:20:LEU:HD21	1:E:357:LEU:HD22	1.16	1.13
3:C:1279:PHE:HB2	3:C:1395:TYR:HE1	1.15	1.12
3:G:1188:ALA:HA	3:G:1191:ARG:HE	1.08	1.11
2:B:439:PHE:CE2	2:B:450:GLU:HG2	1.84	1.11
1:A:224:GLU:HG2	1:A:228:LEU:HD12	1.17	1.11
4:H:308:ASN:HD21	4:H:311:GLY:HA2	1.07	1.10
3:C:730:ASN:HD22	3:C:730:ASN:N	1.35	1.10
4:H:306:GLY:HA2	4:H:317:THR:HG23	1.33	1.09
3:G:1427:LEU:HD22	3:G:1431:ARG:HH12	1.03	1.09
4:D:308:ASN:HD21	4:D:311:GLY:HA2	1.13	1.09
3:G:650:ARG:HH11	3:G:650:ARG:HA	0.98	1.09
3:C:935:ASN:HD21	3:C:937:ASP:HB2	1.16	1.08
4:D:227:LEU:HD11	4:D:231:LEU:HG	1.36	1.08
4:H:308:ASN:ND2	4:H:311:GLY:HA2	1.66	1.08
4:H:360:LEU:HD11	4:H:409:ILE:HD11	1.25	1.08
4:D:360:LEU:HD11	4:D:409:ILE:HD11	1.28	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:864:LEU:HD23	3:G:1004:ASP:HB3	1.35	1.08
3:C:563:LEU:HD21	3:C:746:TRP:NE1	1.65	1.08
4:D:170:VAL:HG11	4:D:594:GLN:HE21	1.11	1.08
4:H:342:VAL:HG22	4:H:374:VAL:HB	1.32	1.08
2:B:93:TYR:HD2	2:B:96:ARG:HB2	1.07	1.07
3:G:364:LYS:HZ2	3:G:537:LEU:HD23	1.17	1.07
3:G:539:VAL:HG21	3:G:568:PHE:HD2	1.13	1.07
3:G:848:LYS:NZ	3:G:997:GLU:HG3	1.68	1.07
3:G:1139:LEU:H	3:G:1139:LEU:HD12	1.18	1.07
3:G:689:MET:SD	3:G:776:MET:HG2	1.95	1.07
4:D:202:LEU:HD21	4:D:438:PRO:HA	1.37	1.06
1:A:43:ARG:HH11	1:A:80:ILE:HG22	1.19	1.06
4:D:166:ASN:HD22	4:D:166:ASN:N	1.52	1.06
1:E:224:GLU:HG2	1:E:228:LEU:HD12	1.33	1.06
4:H:194:LYS:HG3	4:H:463:SER:HB3	1.36	1.06
1:A:55:ILE:HG13	1:A:58:GLN:HE22	1.20	1.06
3:C:1250:HIS:CG	3:C:1251:TYR:H	1.69	1.06
3:G:411:LYS:HD2	3:G:411:LYS:H	1.15	1.06
2:F:49:ARG:NH1	2:F:103:HIS:HB2	1.70	1.05
4:D:306:GLY:HA2	4:D:317:THR:HG23	1.35	1.05
1:E:50:LYS:H	1:E:50:LYS:HD2	1.14	1.05
1:A:355:ARG:NH1	1:A:355:ARG:HB2	1.71	1.04
3:G:1250:HIS:CG	3:G:1251:TYR:H	1.68	1.04
4:D:397:PRO:HB2	4:D:400:ASP:OD1	1.55	1.04
4:H:202:LEU:HD21	4:H:438:PRO:HA	1.39	1.04
3:C:876:PHE:HA	3:C:881:ARG:HH12	1.14	1.04
3:C:789:GLU:O	3:C:793:LEU:HG	1.58	1.03
1:A:403:ASP:HA	1:A:406:ARG:NH1	1.72	1.03
2:B:443:HIS:CE1	2:B:445:ASN:H	1.77	1.03
4:H:202:LEU:HD22	4:H:457:SER:HB3	1.40	1.03
3:C:498:TRP:CZ2	3:C:535:PRO:HD3	1.93	1.02
3:G:1308:TYR:HD2	3:G:1309:ARG:HG2	1.23	1.02
3:G:468:LEU:HD23	3:G:476:VAL:HG11	1.41	1.02
1:A:355:ARG:HH11	1:A:355:ARG:HB2	0.87	1.02
2:F:33:PRO:HD3	2:F:104:PHE:HD2	1.22	1.02
4:D:202:LEU:HD22	4:D:457:SER:HB3	1.42	1.02
3:C:1141:LYS:NZ	3:C:1147:PRO:HD3	1.74	1.01
3:C:875:CYS:HB3	3:C:878:THR:HG23	1.39	1.01
3:G:1337:PHE:CD2	3:G:1391:GLN:HG2	1.95	1.01
3:G:630:ASP:HA	3:G:688:ARG:HH22	1.25	1.01
3:G:739:LEU:HD13	3:G:742:LEU:HD12	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:286:PRO:HG2	2:B:386:PHE:CE2	1.95	1.01
2:B:362:TYR:O	2:B:364:PRO:HD3	1.59	1.01
3:C:543:SER:H	3:C:749:ALA:HB2	1.24	1.01
3:C:935:ASN:ND2	3:C:937:ASP:H	1.55	1.01
4:H:362:ASP:O	4:H:366:VAL:HG23	1.58	1.01
3:C:724:PRO:HB2	3:C:726:GLU:HG3	1.41	1.01
4:D:308:ASN:ND2	4:D:311:GLY:HA2	1.75	1.01
3:G:953:ALA:O	3:G:956:MET:HB2	1.60	1.01
3:G:1300:GLY:H	3:G:1303:MET:HE3	1.24	1.00
3:G:935:ASN:HD21	3:G:937:ASP:HB2	1.22	1.00
3:G:1216:ILE:O	3:G:1219:VAL:HG23	1.62	1.00
3:G:568:PHE:CE1	3:G:575:PRO:HD2	1.97	1.00
3:G:1296:PHE:HZ	3:G:1405:LEU:HD21	1.24	1.00
3:C:664:ARG:HG3	3:C:688:ARG:HE	1.26	1.00
3:C:563:LEU:HD21	3:C:746:TRP:HE1	1.15	1.00
3:G:543:SER:H	3:G:749:ALA:HB2	1.23	1.00
4:H:366:VAL:HG21	4:H:598:ILE:HD11	1.43	1.00
2:F:293:LYS:HE2	2:F:297:GLU:HG3	1.40	0.99
3:G:845:LEU:HD12	3:G:1001:GLY:HA3	1.42	0.99
1:E:145:ALA:HB2	1:E:211:PHE:HE2	1.27	0.99
2:B:93:TYR:CD2	2:B:96:ARG:HB2	1.96	0.99
3:G:650:ARG:NH1	3:G:650:ARG:HA	1.77	0.99
2:F:358:LYS:HD3	3:G:1274:ARG:HH22	1.25	0.99
3:C:1048:LEU:HD23	3:C:1050:LEU:HD21	1.45	0.98
4:D:194:LYS:HG3	4:D:463:SER:HB3	1.42	0.98
2:F:358:LYS:HG2	2:F:359:ARG:N	1.77	0.98
1:A:64:SER:O	1:A:67:GLU:HG3	1.63	0.98
3:G:1276:CYS:SG	3:G:1390:THR:HG22	2.03	0.98
3:C:498:TRP:HZ2	3:C:535:PRO:HD3	1.23	0.98
3:C:1047:LEU:HG	3:C:1049:LEU:CD2	1.92	0.98
2:F:426:LYS:HA	2:F:429:GLU:OE1	1.62	0.98
3:C:1036:LEU:HD12	3:C:1037:GLU:H	1.29	0.97
2:B:47:ILE:HD11	3:C:1266:GLN:HB3	1.44	0.97
1:A:144:ARG:HH11	1:A:211:PHE:HD2	1.03	0.97
3:G:848:LYS:HZ3	3:G:997:GLU:HG3	1.17	0.97
1:A:255:LEU:HD11	1:A:272:LEU:HD13	1.47	0.97
3:G:1441:LEU:H	3:G:1441:LEU:HD23	1.30	0.97
1:A:237:LYS:O	1:A:241:ASP:HB2	1.64	0.97
4:H:246:PRO:HB3	4:H:309:THR:O	1.65	0.97
4:H:503:LEU:HD22	4:H:534:THR:HG23	1.47	0.96
3:C:1307:LEU:HD13	3:C:1430:TYR:OH	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:553:HIS:HB2	4:D:307:ILE:HD12	1.43	0.96
2:F:209:VAL:HG12	2:F:210:PRO:HD2	1.44	0.96
1:A:323:VAL:HG21	1:A:350:ILE:HD12	1.43	0.96
3:G:623:LEU:HD11	3:G:651:ILE:HD11	1.45	0.96
3:G:875:CYS:SG	3:G:876:PHE:N	2.38	0.96
2:B:49:ARG:HB2	2:B:102:SER:HB2	1.48	0.96
4:D:476:LEU:HD11	4:D:502:ILE:CD1	1.96	0.96
1:A:294:TRP:O	1:A:298:LEU:HG	1.66	0.95
4:D:358:ASP:HB2	4:D:359:PRO:HD3	1.44	0.95
2:B:336:MET:HG2	2:B:337:ASP:H	1.29	0.95
3:C:1279:PHE:HB2	3:C:1395:TYR:CE1	1.99	0.95
2:F:362:TYR:O	2:F:364:PRO:HD3	1.66	0.95
3:C:1348:CYS:SG	3:C:1353:CYS:HB3	2.06	0.95
3:C:1395:TYR:HD1	3:C:1398:ILE:HD11	1.31	0.95
4:D:257:ILE:HG22	4:D:258:GLY:H	1.30	0.95
2:F:49:ARG:HB2	2:F:102:SER:HB2	1.45	0.95
1:A:140:ARG:O	1:A:144:ARG:HB2	1.65	0.95
3:C:364:LYS:HZ2	3:C:537:LEU:HD23	1.30	0.95
2:B:358:LYS:CE	3:C:1274:ARG:HH22	1.80	0.94
3:C:935:ASN:HD22	3:C:935:ASN:C	1.70	0.94
4:H:382:LEU:HD11	4:H:389:VAL:HG21	1.49	0.94
3:C:864:LEU:HD23	3:C:1004:ASP:HB3	1.49	0.94
3:G:1364:PHE:HB2	4:H:217:ARG:HE	1.32	0.94
3:G:555:ASN:HD22	3:G:555:ASN:H	1.03	0.94
3:C:500:GLU:OE2	3:C:502:LYS:HE3	1.65	0.94
3:G:1146:TYR:CD2	3:G:1155:VAL:HG21	2.02	0.94
4:D:166:ASN:ND2	4:D:166:ASN:H	1.59	0.94
3:C:607:VAL:HG23	3:C:609:VAL:HG12	1.49	0.94
3:C:360:PHE:HD1	3:C:665:LEU:HD11	1.30	0.94
4:D:343:LEU:HD11	4:D:571:PHE:HD1	1.33	0.94
3:G:1046:SER:HB2	3:G:1058:LEU:HG	1.48	0.94
3:C:635:VAL:HG23	3:C:752:ILE:HG22	1.50	0.94
4:H:343:LEU:HD12	4:H:344:VAL:H	1.33	0.94
3:G:1019:PHE:CE1	3:G:1040:ILE:HG21	2.03	0.94
3:G:732:TYR:HA	3:G:738:LEU:HD13	1.50	0.94
3:C:1307:LEU:HD22	3:C:1430:TYR:CE2	2.02	0.94
2:F:170:SER:HB3	2:F:171:PRO:HD2	1.50	0.94
1:A:355:ARG:CB	1:A:355:ARG:HH11	1.79	0.93
3:G:695:ILE:HD13	3:G:781:MET:O	1.67	0.93
2:F:439:PHE:CE2	2:F:450:GLU:HG2	2.03	0.93
3:G:1139:LEU:CD1	3:G:1139:LEU:H	1.81	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:843:LEU:N	3:C:981:ARG:HG2	1.83	0.93
3:G:935:ASN:ND2	3:G:937:ASP:H	1.65	0.93
3:G:498:TRP:HZ2	3:G:535:PRO:HD3	1.34	0.93
3:G:585:VAL:HG22	3:G:618:LEU:HD12	1.49	0.93
3:C:1409:THR:HG23	3:C:1410:THR:H	1.32	0.93
3:C:1095:VAL:CG1	3:C:1112:ILE:HD13	1.99	0.92
3:C:1312:ASN:HD22	3:C:1315:CYS:HB2	1.34	0.92
3:C:919:VAL:O	3:C:923:LYS:HG3	1.69	0.92
1:A:37:LYS:HG3	1:A:38:ASN:H	1.32	0.92
4:D:366:VAL:HG21	4:D:598:ILE:HD11	1.52	0.92
4:H:389:VAL:HG13	4:H:398:PHE:HE1	1.32	0.92
2:B:443:HIS:CE1	2:B:445:ASN:HB2	2.05	0.92
3:C:1047:LEU:HG	3:C:1049:LEU:HD22	1.50	0.92
3:G:1095:VAL:HG13	3:G:1112:ILE:CD1	1.99	0.92
2:B:280:SER:HA	2:B:284:PHE:CD1	2.05	0.92
1:A:68:LYS:HE3	1:A:72:LYS:HZ2	1.34	0.92
4:D:194:LYS:HE3	4:D:463:SER:OG	1.69	0.92
3:G:806:LYS:HE2	3:G:807:GLN:N	1.84	0.91
3:C:555:ASN:H	3:C:555:ASN:HD22	1.19	0.91
3:C:595:PRO:HG3	3:C:732:TYR:O	1.71	0.91
3:C:723:ILE:H	3:C:723:ILE:HD12	1.31	0.91
4:D:257:ILE:HG22	4:D:258:GLY:N	1.83	0.91
3:G:539:VAL:HG21	3:G:568:PHE:CD2	2.05	0.91
4:H:446:SER:O	4:H:450:LYS:HG3	1.70	0.91
3:C:720:ARG:HH11	3:C:722:VAL:HG22	1.35	0.91
3:C:365:VAL:HG22	3:C:376:CYS:HB2	1.52	0.91
1:E:349:THR:HG22	1:E:351:SER:H	1.36	0.91
3:G:1427:LEU:HD22	3:G:1431:ARG:NH1	1.86	0.91
3:C:1154:HIS:CE1	3:C:1155:VAL:HG23	2.06	0.90
4:D:538:LEU:HD12	4:D:539:ILE:N	1.85	0.90
2:F:336:MET:HG2	2:F:337:ASP:H	1.33	0.90
3:G:555:ASN:ND2	3:G:555:ASN:H	1.65	0.90
3:G:1036:LEU:HD12	3:G:1037:GLU:N	1.87	0.90
2:B:78:LEU:HD21	2:B:131:ARG:HH22	1.34	0.90
3:G:956:MET:O	3:G:959:CYS:HB3	1.72	0.90
2:B:258:THR:OG1	2:B:261:ASP:N	2.04	0.90
3:C:935:ASN:HD22	3:C:937:ASP:H	1.15	0.90
2:F:42:PHE:CD1	2:F:105:ILE:HD11	2.06	0.90
3:C:1095:VAL:HG12	3:C:1112:ILE:HD13	1.51	0.90
3:C:1206:ILE:HD13	3:C:1207:ASP:N	1.87	0.90
3:G:1241:LEU:C	3:G:1243:PRO:HD2	1.91	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:881:ARG:HD3	3:C:972:LEU:HD21	1.54	0.90
4:D:362:ASP:O	4:D:366:VAL:HG23	1.71	0.90
2:B:336:MET:HG2	2:B:337:ASP:N	1.87	0.89
3:C:1241:LEU:C	3:C:1243:PRO:HD2	1.92	0.89
3:G:595:PRO:HG3	3:G:732:TYR:O	1.72	0.89
2:F:39:LEU:HD11	2:F:245:ARG:HD2	1.51	0.89
4:D:342:VAL:HG13	4:D:374:VAL:HB	1.54	0.89
2:F:78:LEU:HD21	2:F:131:ARG:HH22	1.38	0.89
2:B:394:LEU:HD11	2:B:398:LEU:HD21	1.53	0.89
4:H:567:VAL:HG12	4:H:568:GLY:H	1.37	0.89
1:A:229:VAL:HG23	1:A:266:LEU:HD21	1.51	0.89
3:C:1230:ILE:HA	3:C:1234:LEU:HD23	1.55	0.89
4:D:447:ARG:CZ	4:D:447:ARG:HA	2.02	0.89
3:G:843:LEU:HD11	3:G:845:LEU:CD2	2.03	0.89
3:C:628:LYS:HG2	3:G:933:ASP:HB3	1.54	0.89
2:B:367:CYS:SG	2:B:444:PRO:HD3	2.12	0.89
3:C:410:MET:SD	3:C:434:PRO:HB3	2.13	0.89
2:F:75:GLU:HB3	2:F:130:PHE:HZ	1.38	0.89
1:A:330:ILE:HG12	1:A:348:PRO:O	1.71	0.89
2:B:439:PHE:HE1	2:B:441:LEU:HD13	1.37	0.89
4:D:246:PRO:HB3	4:D:309:THR:O	1.73	0.89
1:E:48:THR:HG21	1:E:77:LYS:HD2	1.55	0.89
2:F:33:PRO:HD3	2:F:104:PHE:CD2	2.07	0.88
3:G:1230:ILE:HD12	3:G:1238:TRP:HH2	1.34	0.88
1:E:241:ASP:HA	1:E:244:LEU:HD12	1.56	0.88
2:F:50:VAL:HG23	2:F:106:LEU:HD11	1.55	0.88
4:H:522:TYR:H	4:H:522:TYR:HD2	1.21	0.88
2:B:52:LEU:HD21	2:B:127:LEU:HD21	1.56	0.88
4:D:156:THR:N	4:D:157:PRO:HD2	1.87	0.88
3:C:1104:SER:O	3:C:1108:ILE:HG13	1.73	0.88
1:E:237:LYS:O	1:E:241:ASP:HB2	1.72	0.88
1:A:55:ILE:HG13	1:A:58:GLN:NE2	1.88	0.88
2:B:443:HIS:CE1	2:B:445:ASN:N	2.41	0.88
3:C:869:ILE:HG21	3:C:911:LEU:HD21	1.54	0.88
1:E:262:SER:HB2	1:E:268:ARG:HE	1.39	0.88
3:G:848:LYS:HD2	3:G:999:ILE:HA	1.56	0.88
4:D:355:ILE:HD11	4:D:388:GLN:HE22	1.38	0.88
1:E:69:GLU:O	1:E:73:MET:HG2	1.74	0.88
2:F:280:SER:HA	2:F:284:PHE:CD1	2.09	0.88
4:H:221:THR:O	4:H:225:GLU:HG3	1.73	0.88
3:C:484:LEU:O	3:C:488:LEU:HD23	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:857:LEU:CD2	3:C:859:LEU:HG	2.03	0.88
4:D:193:LEU:HD11	4:D:462:LEU:HD21	1.54	0.88
2:F:262:TYR:HD1	2:F:263:SER:N	1.72	0.88
3:G:413:VAL:HA	3:G:472:THR:OG1	1.74	0.88
3:G:843:LEU:N	3:G:981:ARG:HG2	1.88	0.88
2:B:167:VAL:HG13	2:B:173:LEU:HD21	1.56	0.87
1:A:137:MET:SD	1:A:301:CYS:HB3	2.14	0.87
3:C:1250:HIS:CG	3:C:1251:TYR:N	2.42	0.87
4:D:401:ILE:O	4:D:404:GLN:HB3	1.72	0.87
1:E:221:LYS:NZ	1:E:221:LYS:HB2	1.88	0.87
3:G:1139:LEU:HD12	3:G:1139:LEU:N	1.87	0.87
4:H:387:GLU:HG3	4:H:388:GLN:H	1.40	0.87
3:C:1322:PHE:HB3	3:C:1325:GLN:OE1	1.75	0.87
3:G:1081:ARG:HG2	3:G:1081:ARG:HH11	1.38	0.87
3:G:622:PHE:HE2	3:G:647:LEU:HD21	1.39	0.87
2:B:47:ILE:CD1	3:C:1266:GLN:HB3	2.03	0.87
4:H:156:THR:N	4:H:157:PRO:HD2	1.87	0.87
2:F:356:GLU:HB2	3:G:1247:ARG:HD3	1.56	0.87
3:C:1093:ASN:O	3:C:1096:ILE:HG22	1.75	0.87
2:B:170:SER:HB3	2:B:171:PRO:HD2	1.57	0.87
1:A:82:ALA:HB2	1:A:104:LYS:HB2	1.57	0.86
3:C:1400:ASP:HB2	3:C:1434:LYS:HD3	1.57	0.86
3:C:731:MET:HE1	3:C:741:LEU:HD13	1.57	0.86
3:G:1085:CYS:SG	3:G:1132:GLN:O	2.32	0.86
4:H:503:LEU:CD2	4:H:534:THR:HG23	2.04	0.86
4:D:360:LEU:CD1	4:D:409:ILE:HD11	2.05	0.86
1:A:234:LEU:HD21	1:A:243:ILE:HD12	1.53	0.86
3:C:664:ARG:HG3	3:C:688:ARG:NE	1.89	0.86
1:E:181:VAL:HG22	2:F:192:LEU:HD22	1.57	0.86
2:F:23:PRO:C	2:F:25:CYS:H	1.76	0.86
1:A:207:LYS:NZ	2:B:172:SER:HA	1.90	0.86
3:C:851:PHE:CD1	3:C:1048:LEU:HD12	2.09	0.86
3:C:990:MET:HG2	3:C:994:MET:CE	2.05	0.86
3:G:1340:LYS:NZ	3:G:1340:LYS:HB2	1.91	0.86
3:G:568:PHE:HE1	3:G:575:PRO:HD2	1.39	0.86
3:G:623:LEU:HD22	3:G:661:LYS:HB2	1.55	0.86
3:G:652:ASN:HB2	3:G:670:MET:HE3	1.57	0.86
2:B:265:GLN:HB2	2:B:362:TYR:CE2	2.10	0.86
2:F:164:GLN:HE22	2:F:176:LEU:HD11	1.39	0.86
3:G:1095:VAL:HG13	3:G:1112:ILE:HD13	1.55	0.86
3:G:1230:ILE:HA	3:G:1234:LEU:HD23	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1308:TYR:CD2	3:G:1309:ARG:HG2	2.11	0.86
1:E:38:ASN:HA	1:E:41:GLN:OE1	1.76	0.86
4:H:354:SER:OG	4:H:356:THR:HG23	1.75	0.86
4:D:567:VAL:HG12	4:D:568:GLY:H	1.40	0.86
1:E:37:LYS:HG3	1:E:38:ASN:H	1.40	0.86
3:G:1360:LEU:HD22	4:H:216:ILE:HG22	1.57	0.86
2:B:358:LYS:HG2	2:B:359:ARG:N	1.91	0.86
3:G:1340:LYS:HZ3	3:G:1340:LYS:HB2	1.41	0.86
3:G:1358:ARG:HH21	4:H:513:PRO:HB2	1.40	0.86
3:G:636:GLY:HA3	3:G:639:ILE:HD11	1.57	0.86
1:E:145:ALA:HB2	1:E:211:PHE:CE2	2.10	0.86
3:G:565:HIS:HA	3:G:580:GLN:OE1	1.74	0.86
4:H:310:THR:HB	4:H:312:ARG:HG2	1.57	0.86
3:C:1036:LEU:HD12	3:C:1037:GLU:N	1.90	0.85
3:C:691:CYS:HA	3:C:780:LEU:HD22	1.56	0.85
3:G:602:ILE:HD13	3:G:609:VAL:HG13	1.56	0.85
3:C:1392:LEU:HB3	3:C:1441:LEU:HD21	1.55	0.85
3:G:876:PHE:CZ	3:G:960:LEU:HD21	2.10	0.85
2:B:23:PRO:C	2:B:25:CYS:H	1.78	0.85
3:C:857:LEU:HD21	3:C:859:LEU:HG	1.58	0.85
2:F:258:THR:OG1	2:F:261:ASP:HB2	1.75	0.85
4:H:318:LYS:HE3	4:H:320:TYR:CE2	2.11	0.85
4:H:389:VAL:HG22	4:H:394:LEU:HD11	1.58	0.85
1:E:277:SER:HA	1:E:280:GLN:HG3	1.58	0.85
3:G:1371:CYS:HA	3:G:1379:LEU:HD21	1.58	0.85
3:C:701:ILE:HD11	3:C:714:GLN:HE21	1.39	0.85
3:C:935:ASN:HD21	3:C:937:ASP:CB	1.89	0.85
4:H:341:MET:HE2	4:H:573:ARG:HD2	1.57	0.85
3:C:1371:CYS:HA	3:C:1379:LEU:HD21	1.58	0.85
4:D:387:GLU:HG3	4:D:388:GLN:H	1.42	0.85
2:B:358:LYS:HG2	2:B:359:ARG:H	1.42	0.85
3:C:364:LYS:NZ	3:C:537:LEU:HD23	1.91	0.85
3:C:876:PHE:HA	3:C:881:ARG:NH1	1.91	0.85
1:A:131:CYS:HA	1:A:226:TYR:CE1	2.10	0.85
3:C:553:HIS:CB	4:D:307:ILE:HD12	2.06	0.85
4:D:343:LEU:HG	4:D:344:VAL:N	1.90	0.85
4:D:389:VAL:HG13	4:D:398:PHE:HE1	1.38	0.85
2:B:286:PRO:HG2	2:B:386:PHE:HE2	1.39	0.85
3:G:843:LEU:HD12	3:G:844:VAL:N	1.92	0.85
2:B:159:LYS:HE3	2:B:178:LEU:HD23	1.58	0.84
3:G:1250:HIS:CG	3:G:1251:TYR:N	2.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:570:LEU:HD13	3:G:766:LEU:HD22	1.59	0.84
3:G:1395:TYR:HA	3:G:1398:ILE:HD11	1.57	0.84
3:G:563:LEU:HD21	3:G:746:TRP:NE1	1.92	0.84
1:A:68:LYS:HE3	1:A:72:LYS:NZ	1.92	0.84
3:C:851:PHE:HD1	3:C:1048:LEU:HD12	1.42	0.84
4:D:360:LEU:HD11	4:D:409:ILE:CD1	2.07	0.84
1:E:353:ILE:HB	1:E:386:THR:HG21	1.56	0.84
3:G:1188:ALA:HA	3:G:1191:ARG:NE	1.90	0.84
3:G:498:TRP:CZ2	3:G:535:PRO:HD3	2.12	0.84
1:A:144:ARG:NH1	1:A:211:PHE:HD2	1.74	0.84
3:C:650:ARG:HA	3:C:650:ARG:NH1	1.92	0.84
4:D:399:GLU:HG3	4:D:403:LYS:HE2	1.58	0.84
2:F:385:PRO:HG2	2:F:386:PHE:H	1.42	0.84
3:G:1158:ALA:HA	3:G:1161:ILE:HD12	1.60	0.84
1:A:106:LEU:HB3	1:A:169:VAL:HB	1.58	0.84
3:C:344:TYR:HA	3:C:497:CYS:O	1.77	0.84
2:F:265:GLN:HG2	2:F:266:GLY:H	1.43	0.84
2:F:319:THR:HG23	2:F:322:GLN:OE1	1.78	0.84
4:H:474:THR:HG21	4:H:518:MET:CE	2.07	0.84
4:H:255:GLY:C	4:H:272:LEU:HD11	1.97	0.84
1:A:135:MET:SD	1:A:164:GLY:HA2	2.18	0.84
2:F:300:HIS:HA	2:F:331:PHE:HE1	1.42	0.84
4:H:358:ASP:HB2	4:H:359:PRO:HD3	1.60	0.84
4:H:360:LEU:HD11	4:H:409:ILE:CD1	2.07	0.84
4:D:257:ILE:CG2	4:D:258:GLY:H	1.89	0.84
4:D:540:ILE:H	4:D:540:ILE:HD12	1.40	0.84
3:G:1230:ILE:HD12	3:G:1238:TRP:CH2	2.12	0.84
2:F:121:ILE:HG12	2:F:226:LEU:HD23	1.60	0.84
4:H:243:LEU:HB3	4:H:284:ILE:HD13	1.59	0.84
3:C:555:ASN:HD21	4:D:248:GLN:NE2	1.76	0.84
2:F:104:PHE:HE1	2:F:107:ARG:CZ	1.90	0.84
2:F:358:LYS:HG2	2:F:359:ARG:H	1.43	0.84
2:F:441:LEU:HD12	2:F:446:GLN:CD	1.99	0.83
3:G:1222:ARG:HG2	3:G:1223:ILE:HD12	1.59	0.83
3:C:1251:TYR:HD1	3:C:1254:ASP:H	1.27	0.83
4:D:170:VAL:HG11	4:D:594:GLN:NE2	1.93	0.83
4:D:445:LEU:HD13	4:D:450:LYS:HZ3	1.43	0.83
3:G:1074:LEU:HB3	3:G:1077:LEU:HD12	1.56	0.83
3:G:1133:PHE:HB3	3:G:1211:TYR:OH	1.78	0.83
1:A:43:ARG:NH1	1:A:80:ILE:HG22	1.92	0.83
4:H:357:TYR:O	4:H:360:LEU:HB3	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:589:PRO:HG3	3:C:592:CYS:SG	2.19	0.83
3:C:360:PHE:CD1	3:C:665:LEU:HD11	2.11	0.83
4:H:401:ILE:O	4:H:404:GLN:HB3	1.77	0.83
4:H:540:ILE:N	4:H:540:ILE:HD12	1.94	0.83
2:B:443:HIS:HE1	2:B:445:ASN:HB2	1.42	0.83
3:G:589:PRO:HG3	3:G:592:CYS:SG	2.18	0.83
3:G:732:TYR:HA	3:G:738:LEU:CD1	2.07	0.83
4:H:296:LEU:HA	4:H:300:GLN:OE1	1.78	0.83
3:C:1347:ILE:HD11	3:C:1354:ARG:HG3	1.59	0.83
3:C:641:GLY:O	3:C:642:PHE:HB2	1.78	0.83
3:G:1154:HIS:CE1	3:G:1155:VAL:HG23	2.14	0.83
4:H:420:LEU:HB2	4:H:453:VAL:HG22	1.59	0.83
2:B:265:GLN:HG2	2:B:266:GLY:H	1.43	0.83
3:C:731:MET:HG2	3:C:737:GLN:HB3	1.60	0.83
3:C:497:CYS:SG	3:C:499:LEU:HD21	2.19	0.83
1:E:68:LYS:HE3	1:E:72:LYS:HZ3	1.40	0.83
2:F:270:LYS:HE3	2:F:270:LYS:HA	1.61	0.83
3:G:389:PHE:HB2	3:G:453:LEU:HB3	1.58	0.83
1:E:227:ALA:HB1	1:E:233:ILE:HD13	1.60	0.83
2:F:32:PRO:HA	2:F:104:PHE:CE2	2.14	0.83
1:A:131:CYS:HA	1:A:226:TYR:HE1	1.41	0.82
3:C:689:MET:SD	3:C:776:MET:HG2	2.17	0.82
3:G:858:LEU:HD13	3:G:1007:MET:CG	2.05	0.82
3:C:364:LYS:HZ3	3:C:538:VAL:HG23	1.44	0.82
4:D:460:CYS:SG	4:D:461:SER:N	2.52	0.82
3:G:650:ARG:CA	3:G:650:ARG:HH11	1.88	0.82
4:H:460:CYS:SG	4:H:461:SER:N	2.52	0.82
3:C:1098:GLN:O	3:C:1101:SER:HB3	1.79	0.82
3:C:1400:ASP:CB	3:C:1434:LYS:HD3	2.09	0.82
3:C:695:ILE:HG21	3:C:781:MET:O	1.79	0.82
3:C:865:TYR:HD2	3:C:865:TYR:H	1.24	0.82
4:D:378:PHE:CD2	4:D:541:PRO:HG2	2.13	0.82
3:G:1076:GLY:C	3:G:1077:LEU:HD23	2.00	0.82
3:G:932:GLN:NE2	3:G:933:ASP:H	1.76	0.82
1:A:49:LEU:HB3	1:A:50:LYS:HZ1	1.44	0.82
3:C:612:ALA:HB1	3:C:617:THR:HB	1.60	0.82
4:D:227:LEU:HD23	4:D:301:VAL:HB	1.61	0.82
4:H:470:GLY:O	4:H:471:LEU:HD23	1.79	0.82
3:C:413:VAL:HA	3:C:472:THR:OG1	1.78	0.82
3:G:1116:LEU:HA	3:G:1119:ILE:HG13	1.60	0.82
4:H:257:ILE:HG22	4:H:258:GLY:H	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:361:LEU:HA	4:H:364:ILE:HD12	1.60	0.82
3:C:543:SER:N	3:C:749:ALA:HB2	1.95	0.82
2:F:427:TYR:O	2:F:431:ILE:HG22	1.78	0.82
4:H:258:GLY:O	4:H:271:ILE:HG23	1.79	0.82
2:B:387:ARG:HA	2:B:420:TYR:CE1	2.14	0.82
3:G:1441:LEU:HD23	3:G:1441:LEU:N	1.91	0.82
4:H:385:LYS:HA	4:H:390:GLU:OE1	1.79	0.82
3:G:507:LEU:H	3:G:507:LEU:HD12	1.45	0.82
3:G:543:SER:N	3:G:749:ALA:HB2	1.94	0.82
3:G:935:ASN:HD22	3:G:935:ASN:C	1.82	0.82
3:C:843:LEU:HD11	3:C:845:LEU:CD2	2.10	0.82
3:C:563:LEU:HD13	3:C:579:PHE:CD2	2.14	0.81
4:D:346:CYS:HB2	4:D:378:PHE:HB2	1.60	0.81
1:E:140:ARG:O	1:E:144:ARG:HB2	1.79	0.81
2:F:209:VAL:CG1	2:F:210:PRO:HD2	2.09	0.81
3:G:1334:ILE:HG21	3:G:1440:PHE:CE1	2.15	0.81
4:D:343:LEU:HG	4:D:344:VAL:H	1.45	0.81
3:G:1074:LEU:HB3	3:G:1077:LEU:CD1	2.11	0.81
3:C:968:TYR:OH	3:C:970:LYS:HD3	1.79	0.81
4:D:227:LEU:HD23	4:D:301:VAL:CG1	2.10	0.81
3:G:522:LYS:O	3:G:525:LEU:HG	1.79	0.81
3:C:1149:LYS:HG2	3:C:1150:LYS:N	1.94	0.81
3:C:650:ARG:HH11	3:C:650:ARG:HA	1.46	0.81
2:F:23:PRO:HD2	2:F:25:CYS:SG	2.21	0.81
3:G:629:ILE:HG22	3:G:631:PRO:HD3	1.59	0.81
3:G:543:SER:HB2	3:G:749:ALA:HB2	1.60	0.81
4:D:193:LEU:HD13	4:D:462:LEU:HD11	1.63	0.81
1:E:26:TYR:OH	1:E:80:ILE:HD11	1.80	0.81
3:C:563:LEU:CD2	3:C:746:TRP:HE1	1.94	0.81
3:C:691:CYS:HA	3:C:780:LEU:CD2	2.11	0.81
2:F:320:LEU:HA	2:F:353:PHE:CE1	2.16	0.81
4:H:182:TRP:CE3	4:H:573:ARG:HD2	2.16	0.81
4:H:257:ILE:HD11	4:H:302:VAL:HG11	1.62	0.81
1:A:247:VAL:HG13	1:A:248:PRO:HD2	1.63	0.81
3:C:1401:ALA:HB2	3:C:1430:TYR:HD1	1.46	0.81
4:D:227:LEU:CD1	4:D:231:LEU:HG	2.11	0.81
4:D:495:PHE:HA	4:D:498:ILE:HG13	1.63	0.81
1:E:234:LEU:HD21	1:E:243:ILE:HD12	1.62	0.81
3:C:1185:ASN:C	3:C:1185:ASN:HD22	1.85	0.80
3:C:1304:GLU:OE1	3:C:1309:ARG:HD2	1.81	0.80
3:G:364:LYS:HE3	3:G:632:ASP:OD2	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:271:ILE:HD12	4:H:272:LEU:N	1.95	0.80
2:B:94:GLU:HG3	2:B:95:PRO:HD3	1.61	0.80
4:H:337:PHE:HB3	4:H:465:ASN:ND2	1.96	0.80
3:C:1417:LEU:HG	3:C:1421:PHE:HD2	1.46	0.80
3:C:636:GLY:HA3	3:C:639:ILE:HD11	1.61	0.80
4:D:346:CYS:CB	4:D:378:PHE:HB2	2.10	0.80
1:E:247:VAL:HG22	1:E:292:LEU:HD13	1.63	0.80
1:E:393:LYS:HA	1:E:393:LYS:HE3	1.61	0.80
3:G:1098:GLN:O	3:G:1101:SER:HB3	1.81	0.80
3:G:363:GLY:O	3:G:364:LYS:HG3	1.81	0.80
4:D:571:PHE:CZ	4:D:598:ILE:HD13	2.17	0.80
3:G:1116:LEU:HA	3:G:1119:ILE:CG1	2.11	0.80
3:G:630:ASP:HA	3:G:688:ARG:NH2	1.97	0.80
4:H:337:PHE:HB3	4:H:465:ASN:HD21	1.42	0.80
2:B:173:LEU:O	2:B:173:LEU:HD23	1.82	0.80
3:C:977:THR:HB	3:C:981:ARG:HH12	1.44	0.80
4:D:343:LEU:HD11	4:D:571:PHE:CD1	2.16	0.80
4:H:567:VAL:HG12	4:H:568:GLY:N	1.97	0.80
2:B:47:ILE:HD13	2:B:260:GLN:HE22	1.46	0.80
2:B:41:GLU:O	2:B:45:LEU:HG	1.81	0.80
2:F:286:PRO:HG2	2:F:386:PHE:CE2	2.16	0.80
3:C:1276:CYS:SG	3:C:1390:THR:HG22	2.22	0.80
3:C:935:ASN:ND2	3:C:937:ASP:N	2.29	0.80
4:D:292:LYS:HG2	4:D:293:GLU:H	1.46	0.80
4:D:464:ILE:O	4:D:467:VAL:HB	1.82	0.80
3:G:875:CYS:HB3	3:G:878:THR:HG23	1.60	0.80
2:F:255:HIS:CG	2:F:256:SER:H	2.00	0.80
3:G:1307:LEU:HD22	3:G:1430:TYR:CE2	2.16	0.80
3:G:682:ARG:HD3	3:G:683:ASN:HD22	1.45	0.80
3:G:704:LYS:HE2	3:G:704:LYS:N	1.95	0.80
4:H:246:PRO:HG3	4:H:311:GLY:HA3	1.63	0.80
3:C:1245:GLN:O	3:C:1248:VAL:HB	1.81	0.80
3:G:1087:LEU:O	3:G:1087:LEU:HD12	1.81	0.80
4:H:365:ALA:HA	4:H:368:ASN:HD22	1.46	0.80
3:C:1216:ILE:HD12	3:C:1216:ILE:H	1.47	0.80
3:C:767:GLN:O	3:C:771:ILE:HG13	1.82	0.80
4:H:445:LEU:HB2	4:H:450:LYS:HZ3	1.45	0.80
2:B:367:CYS:SG	2:B:443:HIS:HA	2.21	0.79
3:C:599:LYS:O	3:C:603:GLU:HG2	1.82	0.79
3:C:715:ILE:HD13	3:C:759:LEU:HD21	1.64	0.79
1:E:67:GLU:O	1:E:71:GLN:HG3	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:39:LEU:HD11	2:F:245:ARG:CD	2.11	0.79
1:A:113:THR:HG23	1:A:163:ARG:NE	1.97	0.79
1:A:69:GLU:O	1:A:73:MET:HG2	1.82	0.79
4:D:227:LEU:HD12	4:D:227:LEU:O	1.82	0.79
2:F:118:ARG:HB3	2:F:118:ARG:CZ	2.12	0.79
3:G:387:LEU:HD21	3:G:479:THR:HA	1.63	0.79
4:H:156:THR:H	4:H:157:PRO:HD2	1.46	0.79
3:C:539:VAL:O	3:C:564:VAL:HG13	1.82	0.79
4:D:156:THR:H	4:D:157:PRO:HD2	1.47	0.79
3:G:725:MET:HA	3:G:728:ILE:HD11	1.62	0.79
3:C:1244:THR:HG22	3:C:1247:ARG:NH2	1.97	0.79
3:C:542:PHE:O	3:C:542:PHE:CD2	2.36	0.79
3:C:734:GLU:OE1	3:C:736:SER:HB2	1.81	0.79
2:F:355:LYS:HG2	3:G:1247:ARG:NH2	1.98	0.79
4:D:382:LEU:HD11	4:D:389:VAL:HG21	1.63	0.79
3:G:1348:CYS:SG	3:G:1353:CYS:HB3	2.23	0.79
3:G:784:ARG:HD2	3:G:784:ARG:H	1.46	0.79
4:D:411:GLU:O	4:D:413:THR:N	2.16	0.79
4:D:570:THR:HG22	4:D:597:ARG:HA	1.62	0.79
2:F:313:LEU:HB3	2:F:318:LEU:HD12	1.65	0.79
2:F:358:LYS:HE2	3:G:1274:ARG:HH12	1.46	0.79
3:G:935:ASN:ND2	3:G:937:ASP:HB2	1.98	0.79
4:D:574:LEU:HD12	4:D:574:LEU:N	1.98	0.79
4:H:387:GLU:HG3	4:H:388:GLN:N	1.94	0.79
1:A:97:GLY:HA3	3:C:880:GLN:NE2	1.97	0.79
4:D:157:PRO:HB3	4:D:354:SER:HB3	1.65	0.79
1:E:139:ILE:HD11	1:E:334:ILE:HD12	1.65	0.79
4:H:176:LEU:O	4:H:178:GLN:NE2	2.16	0.79
3:G:1093:ASN:O	3:G:1096:ILE:HG22	1.82	0.79
3:G:641:GLY:O	3:G:642:PHE:HB2	1.81	0.79
4:D:426:LEU:HD11	4:D:518:MET:HE3	1.65	0.78
2:F:406:GLY:O	2:F:409:SER:HB3	1.83	0.78
3:G:562:ALA:O	3:G:563:LEU:HD23	1.82	0.78
2:B:445:ASN:O	2:B:448:PHE:HB3	1.82	0.78
4:D:243:LEU:O	4:D:284:ILE:HD13	1.83	0.78
3:G:631:PRO:N	3:G:688:ARG:HH12	1.80	0.78
3:C:843:LEU:HD12	3:C:844:VAL:N	1.98	0.78
1:E:87:ARG:HB3	1:E:89:ASN:HD21	1.48	0.78
3:G:631:PRO:O	3:G:688:ARG:NH1	2.16	0.78
3:G:701:ILE:HG13	3:G:703:CYS:SG	2.23	0.78
4:H:294:TYR:HD1	4:H:294:TYR:O	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:253:LEU:HG	4:H:314:LEU:HD22	1.66	0.78
4:H:360:LEU:O	4:H:363:LEU:HB3	1.84	0.78
2:B:358:LYS:HE2	3:C:1274:ARG:HH22	1.46	0.78
3:C:1439:GLN:O	3:C:1442:SER:HB2	1.83	0.78
4:H:164:ARG:HG2	4:H:164:ARG:HH11	1.49	0.78
4:H:538:LEU:CG	4:H:540:ILE:HD11	2.14	0.78
4:D:476:LEU:HD12	4:D:476:LEU:C	2.03	0.78
2:F:47:ILE:HG22	2:F:51:LYS:HE3	1.65	0.78
3:G:901:LEU:O	3:G:901:LEU:HD12	1.84	0.78
1:A:146:LEU:HB2	1:A:155:ARG:HD3	1.66	0.78
3:C:644:LEU:O	3:C:644:LEU:HD12	1.84	0.78
4:D:567:VAL:HG12	4:D:568:GLY:N	1.98	0.78
4:D:573:ARG:O	4:D:593:VAL:HG13	1.83	0.78
1:E:209:HIS:CE1	1:E:211:PHE:H	2.02	0.78
2:F:422:VAL:O	2:F:425:GLN:HB2	1.84	0.78
3:C:858:LEU:HD13	3:C:1007:MET:HG3	1.65	0.78
3:G:630:ASP:CA	3:G:688:ARG:HH22	1.96	0.78
3:G:704:LYS:HE2	3:G:704:LYS:H	1.49	0.78
4:H:538:LEU:HG	4:H:540:ILE:HD11	1.66	0.78
4:H:548:VAL:HG22	4:H:557:VAL:HG22	1.63	0.78
1:E:240:TRP:O	1:E:244:LEU:HG	1.82	0.78
2:F:262:TYR:CD1	2:F:263:SER:N	2.52	0.78
2:B:319:THR:HG23	2:B:322:GLN:OE1	1.84	0.78
3:C:1146:TYR:CD2	3:C:1155:VAL:HG21	2.19	0.78
3:C:682:ARG:HD3	3:C:683:ASN:HD22	1.49	0.78
3:C:701:ILE:HG12	3:C:703:CYS:SG	2.24	0.78
3:G:612:ALA:HB1	3:G:617:THR:HB	1.65	0.78
3:G:852:TYR:HD1	3:G:1009:ASN:HD22	1.32	0.78
4:H:243:LEU:HB3	4:H:284:ILE:CD1	2.14	0.78
4:H:376:ILE:O	4:H:377:LEU:HD23	1.84	0.78
4:H:522:TYR:CD2	4:H:522:TYR:N	2.50	0.78
1:A:112:MET:HB3	1:A:163:ARG:HD2	1.65	0.77
1:A:5:ASP:HB3	1:A:8:GLU:OE2	1.84	0.77
3:C:562:ALA:O	3:C:563:LEU:HD23	1.84	0.77
3:C:856:ILE:CG2	3:C:1007:MET:HG2	2.14	0.77
3:G:635:VAL:HG22	3:G:752:ILE:HG22	1.63	0.77
3:G:943:ASP:O	3:G:946:GLN:HB3	1.85	0.77
1:A:237:LYS:HA	1:A:240:TRP:CE2	2.20	0.77
2:B:118:ARG:HG3	2:B:118:ARG:HH11	1.47	0.77
3:C:1038:ILE:HG13	3:C:1039:ASP:N	1.99	0.77
3:C:389:PHE:HB2	3:C:453:LEU:HB3	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:220:LEU:O	4:D:224:ILE:HG13	1.85	0.77
4:D:361:LEU:HA	4:D:364:ILE:CD1	2.13	0.77
3:G:1129:PRO:HB2	3:G:1132:GLN:HG2	1.66	0.77
3:C:659:TRP:CG	3:C:660:SER:N	2.51	0.77
3:C:875:CYS:SG	3:C:876:PHE:N	2.56	0.77
4:D:499:LEU:O	4:D:503:LEU:HD12	1.83	0.77
1:E:25:GLN:HE21	1:E:396:GLU:HG3	1.48	0.77
4:H:399:GLU:O	4:H:403:LYS:HG2	1.85	0.77
1:A:393:LYS:HE2	1:A:397:HIS:CE1	2.19	0.77
3:C:1129:PRO:HB2	3:C:1132:GLN:HG2	1.65	0.77
3:C:872:PHE:CE2	3:C:979:LYS:HE2	2.18	0.77
4:D:166:ASN:H	4:D:166:ASN:HD22	0.81	0.77
4:D:254:LEU:HD12	4:D:255:GLY:N	2.00	0.77
2:F:445:ASN:O	2:F:448:PHE:HB3	1.85	0.77
3:G:1395:TYR:HD1	3:G:1398:ILE:HD11	1.50	0.77
3:G:411:LYS:HD2	3:G:411:LYS:N	1.97	0.77
3:G:803:VAL:HB	3:G:804:PRO:CD	2.14	0.77
2:B:276:ILE:HA	2:B:279:LEU:HD12	1.67	0.77
3:C:1395:TYR:O	3:C:1398:ILE:HG13	1.83	0.77
3:C:522:LYS:O	3:C:525:LEU:HG	1.84	0.77
2:F:111:CYS:HB2	2:F:233:THR:OG1	1.84	0.77
2:B:23:PRO:HD2	2:B:25:CYS:HB2	1.65	0.77
3:C:555:ASN:H	3:C:555:ASN:ND2	1.82	0.77
3:C:345:TRP:HH2	3:C:775:ILE:HG13	1.48	0.77
3:C:932:GLN:NE2	3:C:933:ASP:H	1.82	0.77
3:G:564:VAL:HG12	3:G:565:HIS:N	1.99	0.77
4:H:292:LYS:HG2	4:H:293:GLU:N	2.00	0.77
3:G:1335:ARG:HH21	4:H:433:PRO:HD3	1.48	0.77
3:C:1267:LEU:HD22	3:C:1271:GLU:HG3	1.65	0.77
3:C:789:GLU:HG2	3:C:793:LEU:HD11	1.66	0.77
1:E:46:SER:OG	1:E:79:ASP:HB2	1.84	0.77
3:C:1010:THR:O	3:C:1011:ASN:HB2	1.85	0.77
4:D:227:LEU:HD23	4:D:301:VAL:CB	2.14	0.77
1:E:264:ASN:O	1:E:268:ARG:HD3	1.84	0.77
1:E:93:THR:HG23	3:G:447:PRO:HB3	1.66	0.77
3:C:683:ASN:HD22	3:C:683:ASN:N	1.81	0.77
2:F:64:VAL:HG23	2:F:66:GLY:H	1.49	0.77
3:G:1046:SER:HB2	3:G:1058:LEU:CG	2.13	0.77
1:A:233:ILE:HG13	1:A:234:LEU:HG	1.66	0.77
3:C:864:LEU:HD23	3:C:1004:ASP:CB	2.15	0.77
3:C:954:ASN:H	3:C:954:ASN:HD22	1.29	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1141:LYS:NZ	3:G:1147:PRO:HD3	2.00	0.77
3:G:806:LYS:HE2	3:G:807:GLN:H	1.45	0.77
3:G:806:LYS:HG2	3:G:966:ARG:HD2	1.66	0.77
4:D:300:GLN:O	4:D:302:VAL:HG12	1.84	0.76
2:F:42:PHE:CE1	2:F:105:ILE:HD11	2.19	0.76
3:G:1206:ILE:HD13	3:G:1207:ASP:N	2.00	0.76
2:F:387:ARG:NH1	3:G:995:ASN:HB3	2.00	0.76
4:H:346:CYS:CB	4:H:378:PHE:HB2	2.15	0.76
3:C:1244:THR:O	3:C:1247:ARG:HG3	1.84	0.76
3:C:943:ASP:O	3:C:946:GLN:HB3	1.85	0.76
3:G:437:LYS:HD3	3:G:800:ASN:ND2	1.99	0.76
2:F:443:HIS:CE1	2:F:445:ASN:H	2.04	0.76
4:H:157:PRO:HB3	4:H:354:SER:HB2	1.67	0.76
1:E:162:ARG:HG3	1:E:327:THR:HG21	1.67	0.76
3:G:1427:LEU:CD2	3:G:1431:ARG:HH12	1.91	0.76
3:G:547:MET:HG3	3:G:728:ILE:HD12	1.67	0.76
3:C:1235:ILE:H	3:C:1235:ILE:HD12	1.49	0.76
3:C:1395:TYR:CD1	3:C:1398:ILE:HD11	2.19	0.76
3:C:602:ILE:HD13	3:C:609:VAL:HG13	1.68	0.76
2:F:255:HIS:CD2	2:F:256:SER:H	2.03	0.76
3:G:610:GLU:HG2	3:G:621:PHE:CZ	2.20	0.76
4:H:411:GLU:O	4:H:413:THR:N	2.18	0.76
1:A:174:VAL:O	1:A:177:LEU:HG	1.85	0.76
1:E:192:VAL:HG21	1:E:304:ARG:HG2	1.68	0.76
1:E:50:LYS:N	1:E:50:LYS:HD2	1.96	0.76
3:C:1294:ASN:HD22	3:C:1296:PHE:H	1.34	0.76
4:D:357:TYR:O	4:D:360:LEU:HB3	1.85	0.76
1:E:234:LEU:CD2	1:E:243:ILE:HD12	2.15	0.76
3:G:362:PHE:HZ	3:G:665:LEU:HG	1.51	0.76
1:A:82:ALA:CB	1:A:104:LYS:HB2	2.15	0.76
3:C:1427:LEU:HB3	3:C:1431:ARG:HH22	1.50	0.76
3:C:857:LEU:HD21	3:C:859:LEU:CG	2.15	0.76
1:E:208:ILE:HD12	1:E:212:ILE:HG21	1.68	0.76
3:G:623:LEU:HD11	3:G:659:TRP:HA	1.68	0.76
4:H:215:ASP:O	4:H:219:VAL:HG23	1.86	0.76
4:H:231:LEU:CB	4:H:303:ILE:HD11	2.16	0.76
1:A:198:VAL:O	1:A:201:LYS:HE3	1.86	0.76
2:B:247:GLN:HB2	2:B:248:PRO:HD3	1.68	0.76
2:B:271:ILE:HG22	2:B:272:SER:O	1.85	0.76
3:C:1201:GLN:NE2	3:C:1204:LEU:HG	2.01	0.76
4:D:361:LEU:HA	4:D:364:ILE:HD12	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1219:VAL:O	3:G:1223:ILE:HD12	1.86	0.76
3:G:793:LEU:O	3:G:797:TYR:HD1	1.69	0.76
2:B:314:LYS:HD2	2:B:353:PHE:CD2	2.21	0.75
3:C:869:ILE:CG2	3:C:911:LEU:HD21	2.15	0.75
3:G:711:LEU:HB3	3:G:755:ILE:CD1	2.16	0.75
4:H:292:LYS:HG2	4:H:293:GLU:H	1.51	0.75
2:B:255:HIS:CG	2:B:256:SER:H	2.05	0.75
3:C:1444:SER:O	3:C:1446:TYR:N	2.19	0.75
4:D:355:ILE:HD11	4:D:388:GLN:NE2	1.99	0.75
4:H:292:LYS:CG	4:H:293:GLU:H	1.99	0.75
3:C:760:ASN:O	3:C:763:PRO:HD2	1.87	0.75
4:D:194:LYS:HG3	4:D:463:SER:CB	2.17	0.75
1:E:200:LYS:HE2	1:E:246:LEU:HB3	1.68	0.75
3:G:1320:LEU:O	3:G:1320:LEU:HD13	1.86	0.75
3:G:1444:SER:O	3:G:1446:TYR:N	2.19	0.75
3:G:635:VAL:CG2	3:G:752:ILE:HG22	2.16	0.75
4:H:318:LYS:HE3	4:H:320:TYR:CD2	2.21	0.75
1:A:398:PHE:O	1:A:402:LEU:HD13	1.86	0.75
2:F:303:HIS:HB2	3:G:1106:ASP:OD1	1.86	0.75
3:G:903:ASP:CG	3:G:905:SER:H	1.88	0.75
4:H:493:ASP:OD2	4:H:496:SER:HB2	1.87	0.75
1:A:403:ASP:HA	1:A:406:ARG:HH12	1.51	0.75
1:A:38:ASN:HB3	1:A:41:GLN:HB2	1.69	0.75
2:F:387:ARG:HA	2:F:420:TYR:CE1	2.21	0.75
4:D:306:GLY:HA2	4:D:317:THR:CG2	2.15	0.75
4:D:387:GLU:HG3	4:D:388:GLN:N	2.00	0.75
1:E:247:VAL:HG13	1:E:248:PRO:HD2	1.66	0.75
1:E:403:ASP:HA	1:E:406:ARG:HH11	1.50	0.75
4:H:342:VAL:CG2	4:H:374:VAL:HB	2.12	0.75
3:C:861:PHE:CD1	3:C:1036:LEU:HD11	2.22	0.75
4:D:292:LYS:CG	4:D:293:GLU:H	2.00	0.75
2:F:22:TYR:N	2:F:84:SER:HG	1.84	0.75
2:B:441:LEU:HD21	2:B:447:PHE:HB2	1.66	0.75
3:C:564:VAL:HG12	3:C:565:HIS:N	2.02	0.75
1:E:55:ILE:HD12	1:E:56:ARG:H	1.51	0.75
3:G:341:PHE:HE2	3:G:365:VAL:HG11	1.51	0.75
2:F:103:HIS:CE1	2:F:107:ARG:HE	2.05	0.75
3:G:428:MET:N	3:G:428:MET:SD	2.60	0.75
4:H:447:ARG:HH11	4:H:447:ARG:HG2	1.52	0.75
2:B:362:TYR:HD2	2:B:362:TYR:O	1.70	0.74
2:B:76:SER:O	2:B:79:ARG:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1036:LEU:O	3:C:1037:GLU:HG3	1.86	0.74
3:C:1400:ASP:CA	3:C:1434:LYS:HD3	2.17	0.74
1:E:118:VAL:HG13	1:E:300:TYR:CD2	2.20	0.74
1:E:37:LYS:C	1:E:38:ASN:HD22	1.91	0.74
1:E:50:LYS:CD	1:E:50:LYS:H	1.96	0.74
3:G:549:ASN:HD21	3:G:552:ASN:H	1.31	0.74
4:H:210:PHE:CD1	4:H:210:PHE:O	2.40	0.74
3:C:774:ASN:ND2	3:C:779:THR:OG1	2.19	0.74
2:F:137:LYS:HZ3	2:F:181:GLU:CA	2.01	0.74
2:F:165:GLU:HB3	2:F:201:TYR:CE2	2.21	0.74
2:F:403:ILE:HG22	2:F:408:ILE:HG12	1.69	0.74
3:G:1023:ASN:HA	3:G:1026:LYS:HB3	1.68	0.74
3:G:762:LEU:HD23	3:G:762:LEU:H	1.52	0.74
2:B:209:VAL:CG1	2:B:210:PRO:HD2	2.12	0.74
2:F:164:GLN:HE22	2:F:176:LEU:CD1	1.99	0.74
2:F:411:ILE:HG22	2:F:412:LEU:HD23	1.70	0.74
4:H:398:PHE:CD1	4:H:429:VAL:HG21	2.22	0.74
4:D:215:ASP:O	4:D:219:VAL:HG23	1.87	0.74
1:E:275:VAL:O	1:E:278:ARG:HB3	1.88	0.74
3:G:623:LEU:CD1	3:G:651:ILE:HD11	2.17	0.74
1:A:228:LEU:HD23	1:A:233:ILE:HG12	1.70	0.74
2:B:93:TYR:HD2	2:B:96:ARG:CB	1.93	0.74
3:G:935:ASN:ND2	3:G:937:ASP:N	2.36	0.74
4:H:546:TYR:O	4:H:547:PHE:HB3	1.85	0.74
1:A:251:ILE:HD12	1:A:275:VAL:HG12	1.68	0.74
2:F:367:CYS:SG	2:F:444:PRO:HD3	2.28	0.74
3:G:1154:HIS:NE2	3:G:1155:VAL:HG23	2.03	0.74
3:G:876:PHE:HA	3:G:881:ARG:HH12	1.52	0.74
4:H:194:LYS:CG	4:H:463:SER:HB3	2.17	0.74
1:A:48:THR:HB	1:A:77:LYS:HB2	1.67	0.74
3:C:1119:ILE:O	3:C:1123:VAL:HG23	1.87	0.74
3:C:723:ILE:N	3:C:723:ILE:HD12	2.03	0.74
1:E:158:VAL:HG22	1:E:333:PRO:HA	1.67	0.74
3:G:1369:PRO:O	3:G:1378:THR:HG23	1.88	0.74
4:H:532:PRO:HG2	4:H:533:VAL:H	1.53	0.74
3:C:1105:ARG:HA	3:C:1108:ILE:HD12	1.69	0.74
3:C:1314:ASP:O	3:C:1316:LYS:HD2	1.87	0.74
3:C:1395:TYR:HA	3:C:1398:ILE:HD11	1.69	0.74
1:E:398:PHE:O	1:E:402:LEU:HD13	1.86	0.74
3:G:857:LEU:HD23	3:G:859:LEU:HG	1.69	0.74
3:C:1216:ILE:HD12	3:C:1216:ILE:N	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:956:MET:O	3:C:959:CYS:HB3	1.88	0.74
4:H:574:LEU:N	4:H:574:LEU:HD12	2.03	0.74
1:A:200:LYS:HD2	1:A:246:LEU:HD22	1.68	0.74
1:E:313:ILE:HG12	1:E:313:ILE:O	1.88	0.74
1:E:20:LEU:CD2	1:E:357:LEU:HD22	2.07	0.74
2:F:280:SER:HA	2:F:284:PHE:HD1	1.52	0.74
3:G:1345:TRP:CZ3	3:G:1358:ARG:HG3	2.23	0.74
3:C:1335:ARG:NH2	4:D:433:PRO:HD3	2.03	0.73
1:E:379:ARG:HH11	1:E:379:ARG:HG3	1.53	0.73
2:F:200:VAL:HG11	2:F:209:VAL:HG22	1.70	0.73
2:F:428:PHE:CZ	2:F:450:GLU:HB3	2.23	0.73
3:G:344:TYR:HA	3:G:497:CYS:O	1.87	0.73
3:G:437:LYS:NZ	3:G:800:ASN:HD22	1.86	0.73
3:C:1369:PRO:O	3:C:1378:THR:HG23	1.88	0.73
3:C:1394:PHE:O	3:C:1398:ILE:HG12	1.87	0.73
4:D:292:LYS:HG2	4:D:293:GLU:N	2.03	0.73
2:F:32:PRO:HA	2:F:104:PHE:HE2	1.52	0.73
2:F:47:ILE:CD1	3:G:1266:GLN:HB3	2.18	0.73
1:A:56:ARG:C	1:A:58:GLN:HE21	1.92	0.73
2:B:94:GLU:CG	2:B:95:PRO:HD3	2.17	0.73
3:G:695:ILE:HG21	3:G:781:MET:O	1.87	0.73
4:H:202:LEU:CD2	4:H:457:SER:HB3	2.18	0.73
3:G:1337:PHE:CE2	3:G:1391:GLN:HG2	2.22	0.73
3:G:563:LEU:HD21	3:G:746:TRP:CD1	2.22	0.73
4:H:224:ILE:HD11	4:H:256:GLN:OE1	1.89	0.73
1:A:137:MET:O	1:A:141:ILE:HG13	1.87	0.73
2:F:104:PHE:O	2:F:107:ARG:HB2	1.89	0.73
2:F:417:GLY:O	2:F:418:THR:HG22	1.88	0.73
3:G:1143:PRO:HB2	3:G:1159:LEU:HD21	1.70	0.73
3:G:1235:ILE:O	3:G:1238:TRP:HB2	1.89	0.73
3:G:659:TRP:CG	3:G:660:SER:N	2.56	0.73
1:A:49:LEU:HB3	1:A:50:LYS:NZ	2.02	0.73
3:C:507:LEU:H	3:C:507:LEU:HD12	1.52	0.73
4:D:342:VAL:CG1	4:D:374:VAL:HB	2.17	0.73
1:E:13:LEU:HD22	1:E:17:TYR:CE2	2.24	0.73
1:E:49:LEU:HB3	1:E:50:LYS:NZ	2.03	0.73
3:G:865:TYR:H	3:G:865:TYR:HD2	1.32	0.73
2:B:47:ILE:HD13	2:B:260:GLN:NE2	2.02	0.73
3:C:701:ILE:HD11	3:C:714:GLN:NE2	2.04	0.73
3:C:944:ILE:HA	3:C:947:LYS:NZ	2.03	0.73
4:D:296:LEU:HA	4:D:300:GLN:OE1	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:343:LEU:O	4:H:344:VAL:HG23	1.89	0.73
3:C:537:LEU:HD12	3:C:570:LEU:HD21	1.70	0.73
3:C:938:LEU:HA	3:C:941:GLN:HB2	1.70	0.73
4:D:171:VAL:HG23	4:D:595:VAL:HG12	1.69	0.73
4:D:546:TYR:O	4:D:547:PHE:HB3	1.87	0.73
1:E:293:GLU:O	1:E:297:MET:HG3	1.89	0.73
2:F:316:ILE:HB	2:F:448:PHE:HE2	1.54	0.73
3:G:365:VAL:HG22	3:G:376:CYS:HB2	1.69	0.73
3:G:500:GLU:CD	3:G:502:LYS:HE3	2.08	0.73
4:H:243:LEU:O	4:H:284:ILE:HG21	1.87	0.73
1:A:111:ASP:OD1	1:A:163:ARG:HG3	1.89	0.73
1:A:43:ARG:HH11	1:A:80:ILE:CG2	2.01	0.73
2:B:433:ASN:O	2:B:434:VAL:HG12	1.89	0.73
3:C:774:ASN:O	3:C:775:ILE:HD12	1.89	0.73
4:D:446:SER:O	4:D:450:LYS:HG2	1.88	0.73
3:G:599:LYS:O	3:G:603:GLU:HG2	1.89	0.73
3:G:938:LEU:HA	3:G:941:GLN:HB2	1.70	0.73
2:B:164:GLN:HE22	2:B:176:LEU:CD1	2.01	0.73
4:D:166:ASN:ND2	4:D:166:ASN:N	2.27	0.73
1:E:206:GLU:HA	1:E:206:GLU:OE1	1.89	0.73
3:G:1149:LYS:HD3	3:G:1150:LYS:N	2.04	0.73
3:G:773:GLY:O	3:G:794:HIS:NE2	2.21	0.73
1:A:145:ALA:HB2	1:A:211:PHE:CE2	2.24	0.72
3:C:803:VAL:HB	3:C:804:PRO:CD	2.19	0.72
4:D:346:CYS:HB2	4:D:378:PHE:CB	2.18	0.72
4:D:479:HIS:ND1	4:D:509:TYR:OH	2.20	0.72
2:F:22:TYR:HB3	2:F:23:PRO:HD3	1.71	0.72
2:F:94:GLU:HB3	2:F:95:PRO:HD3	1.71	0.72
3:G:341:PHE:CE2	3:G:365:VAL:HG11	2.24	0.72
4:H:306:GLY:HA2	4:H:317:THR:CG2	2.16	0.72
1:A:393:LYS:HZ1	1:A:396:GLU:HB3	1.53	0.72
2:B:319:THR:OG1	2:B:322:GLN:HG3	1.89	0.72
3:C:1307:LEU:H	3:C:1307:LEU:HD12	1.54	0.72
3:C:610:GLU:HG2	3:C:621:PHE:CZ	2.24	0.72
3:C:682:ARG:C	3:C:682:ARG:HD3	2.10	0.72
4:D:539:ILE:HG22	4:D:541:PRO:HD3	1.71	0.72
3:G:1296:PHE:CZ	3:G:1405:LEU:HD21	2.17	0.72
3:G:346:LEU:HD22	3:G:689:MET:HE1	1.69	0.72
3:G:925:VAL:HG21	3:G:945:ARG:HD3	1.71	0.72
1:A:393:LYS:HE3	1:A:396:GLU:HB2	1.69	0.72
3:C:1122:ASN:HA	3:C:1125:ASN:ND2	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:843:LEU:H	3:C:981:ARG:HG2	1.54	0.72
4:H:494:ARG:HG3	4:H:494:ARG:HH11	1.54	0.72
1:A:51:ASP:HB2	1:A:53:ILE:HD13	1.70	0.72
2:B:434:VAL:HG23	2:B:435:ASP:N	2.02	0.72
3:C:346:LEU:HD12	3:C:363:GLY:HA2	1.71	0.72
2:F:387:ARG:HG3	2:F:388:HIS:CD2	2.24	0.72
3:G:360:PHE:CD1	3:G:665:LEU:HD11	2.24	0.72
3:C:437:LYS:HD3	3:C:800:ASN:ND2	2.04	0.72
3:G:510:PRO:HA	3:G:517:GLU:OE1	1.89	0.72
3:G:869:ILE:O	3:G:869:ILE:HG22	1.89	0.72
1:A:353:ILE:HB	1:A:386:THR:HG21	1.70	0.72
4:D:307:ILE:O	4:D:315:VAL:HG23	1.89	0.72
4:D:376:ILE:O	4:D:377:LEU:HD23	1.89	0.72
2:F:29:TYR:HB3	2:F:103:HIS:CD2	2.24	0.72
2:F:51:LYS:HE2	2:F:260:GLN:HB2	1.72	0.72
3:G:1140:THR:O	3:G:1140:THR:HG22	1.89	0.72
3:G:539:VAL:O	3:G:564:VAL:HG13	1.88	0.72
4:H:166:ASN:HD22	4:H:166:ASN:N	1.84	0.72
1:A:82:ALA:HB2	1:A:104:LYS:HD3	1.70	0.72
2:F:286:PRO:HB2	2:F:385:PRO:HG3	1.70	0.72
2:F:313:LEU:O	2:F:316:ILE:HG12	1.90	0.72
3:G:598:PHE:CE1	3:G:738:LEU:HB3	2.25	0.72
3:G:945:ARG:O	3:G:949:LEU:HG	1.89	0.72
4:H:522:TYR:HA	4:H:525:PHE:HB3	1.72	0.72
1:A:178:SER:O	1:A:182:ARG:HG3	1.90	0.72
1:A:207:LYS:HZ1	2:B:172:SER:HA	1.54	0.72
2:B:443:HIS:HE1	2:B:445:ASN:CB	2.03	0.72
4:D:522:TYR:HA	4:D:525:PHE:HB3	1.70	0.72
1:E:192:VAL:HG23	1:E:302:PHE:CD1	2.24	0.72
2:F:282:LYS:HA	2:F:431:ILE:HD11	1.71	0.72
2:F:403:ILE:HG22	2:F:408:ILE:CG1	2.20	0.72
3:G:1374:CYS:O	3:G:1374:CYS:SG	2.47	0.72
4:H:227:LEU:HD23	4:H:301:VAL:HB	1.72	0.72
4:H:400:ASP:O	4:H:403:LYS:N	2.22	0.72
2:B:342:ASP:HA	2:B:346:SER:HB2	1.70	0.72
1:E:269:TRP:NE1	1:E:273:LYS:HD3	2.05	0.72
3:C:1399:PHE:O	3:C:1434:LYS:HG3	1.89	0.72
3:C:876:PHE:HZ	3:C:960:LEU:HD21	1.55	0.72
1:E:143:ASP:HA	1:E:146:LEU:HD12	1.70	0.72
2:F:104:PHE:CE1	2:F:107:ARG:CZ	2.72	0.72
2:F:258:THR:OG1	2:F:261:ASP:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:265:GLN:CG	2:F:266:GLY:H	2.03	0.72
2:F:316:ILE:HB	2:F:448:PHE:CE2	2.24	0.72
3:G:533:SER:OG	3:G:534:PRO:HD2	1.90	0.72
1:A:237:LYS:HA	1:A:240:TRP:CD2	2.25	0.71
3:C:428:MET:SD	3:C:428:MET:N	2.62	0.71
2:F:300:HIS:ND1	2:F:301:LEU:N	2.38	0.71
4:H:294:TYR:HE1	4:H:486:SER:C	1.93	0.71
3:C:1185:ASN:O	3:C:1185:ASN:ND2	2.16	0.71
3:C:498:TRP:O	3:C:528:VAL:HG13	1.89	0.71
3:C:552:ASN:O	3:C:553:HIS:ND1	2.15	0.71
3:C:953:ALA:HA	3:C:956:MET:HG2	1.71	0.71
3:G:563:LEU:HD13	3:G:579:PHE:CD2	2.25	0.71
4:H:308:ASN:HD21	4:H:311:GLY:CA	1.97	0.71
2:B:104:PHE:O	2:B:107:ARG:HB2	1.89	0.71
2:B:359:ARG:O	2:B:360:THR:HG22	1.90	0.71
3:C:1141:LYS:NZ	3:C:1147:PRO:CD	2.53	0.71
3:C:1334:ILE:HG21	3:C:1440:PHE:CD1	2.25	0.71
3:C:991:VAL:HG12	3:C:996:LEU:O	1.90	0.71
2:F:262:TYR:O	2:F:264:THR:HG22	1.89	0.71
3:C:477:PHE:CD1	3:C:802:ILE:HG21	2.25	0.71
4:D:227:LEU:C	4:D:227:LEU:HD12	2.11	0.71
1:E:107:VAL:HG12	1:E:168:TRP:HA	1.71	0.71
1:E:323:VAL:HG21	1:E:350:ILE:HD12	1.72	0.71
1:E:30:LEU:HD11	1:E:80:ILE:HD13	1.73	0.71
3:G:588:LYS:HD3	3:G:594:PHE:CE1	2.25	0.71
3:G:875:CYS:HB3	3:G:878:THR:CG2	2.20	0.71
4:H:573:ARG:C	4:H:574:LEU:HD12	2.11	0.71
1:A:209:HIS:CE1	1:A:211:PHE:H	2.08	0.71
1:A:382:ASP:OD1	1:A:385:LYS:HB2	1.90	0.71
2:B:265:GLN:CG	2:B:266:GLY:H	2.03	0.71
3:C:558:ILE:O	3:C:558:ILE:HG13	1.89	0.71
3:C:720:ARG:NH1	3:C:722:VAL:HG22	2.06	0.71
3:C:865:TYR:N	3:C:866:PRO:CD	2.54	0.71
3:C:1358:ARG:NH2	4:D:514:PRO:O	2.24	0.71
3:G:1290:ASN:HD22	3:G:1292:TYR:HE1	1.37	0.71
3:G:497:CYS:SG	3:G:499:LEU:HD21	2.31	0.71
3:G:669:ASN:HD22	3:G:669:ASN:N	1.87	0.71
4:H:231:LEU:HB2	4:H:303:ILE:HD11	1.72	0.71
1:A:227:ALA:O	1:A:233:ILE:HG23	1.91	0.71
2:B:45:LEU:HD13	2:B:101:ILE:HG21	1.72	0.71
2:B:288:MET:HG3	2:B:312:PHE:CE2	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:62:SER:O	2:B:63:TYR:HD2	1.72	0.71
3:C:803:VAL:HB	3:C:804:PRO:HD2	1.73	0.71
1:E:60:PHE:HB3	1:E:65:ASP:HB2	1.72	0.71
3:G:1026:LYS:HG3	3:G:1030:ASN:ND2	2.04	0.71
1:A:259:PHE:HE2	1:A:271:HIS:HB3	1.55	0.71
2:B:28:PHE:O	2:B:30:LEU:N	2.23	0.71
3:C:1334:ILE:HG21	3:C:1440:PHE:CE1	2.24	0.71
4:D:227:LEU:HD11	4:D:231:LEU:CG	2.18	0.71
2:F:264:THR:OG1	2:F:265:GLN:N	2.23	0.71
3:G:430:PHE:N	3:G:430:PHE:CD2	2.58	0.71
3:G:668:SER:C	3:G:669:ASN:HD22	1.94	0.71
3:G:922:ARG:HH12	3:G:950:LYS:CD	2.04	0.71
4:H:243:LEU:O	4:H:284:ILE:HD13	1.89	0.71
2:B:114:GLU:N	2:B:117:ARG:HH21	1.89	0.71
2:B:163:GLU:HG3	2:B:178:LEU:HD22	1.73	0.71
3:C:939:ILE:HG22	3:C:940:LEU:N	2.05	0.71
3:C:1328:ASN:HB3	4:D:392:CYS:SG	2.31	0.71
1:E:221:LYS:HZ2	1:E:221:LYS:HB2	1.50	0.71
3:G:774:ASN:ND2	3:G:779:THR:OG1	2.20	0.71
2:F:49:ARG:NH1	2:F:124:GLU:OE2	2.23	0.71
3:G:558:ILE:O	3:G:559:ALA:HB2	1.90	0.71
3:G:788:ASN:HD22	3:G:956:MET:HA	1.56	0.71
4:H:227:LEU:HD23	4:H:301:VAL:CB	2.21	0.71
4:H:407:ARG:HH11	4:H:407:ARG:HG3	1.54	0.71
3:C:1241:LEU:O	3:C:1243:PRO:HD2	1.91	0.71
3:C:578:PRO:HB2	3:C:753:LEU:HD23	1.73	0.71
3:C:716:LEU:HG	3:C:755:ILE:HG13	1.72	0.71
3:C:855:PHE:CE1	3:C:1045:LYS:HG3	2.26	0.71
4:D:411:GLU:HG3	4:D:414:ARG:NH1	2.06	0.71
4:D:525:PHE:CD1	4:D:529:ALA:HB3	2.25	0.71
3:G:843:LEU:HD11	3:G:845:LEU:HD21	1.72	0.71
4:D:358:ASP:HB2	4:D:359:PRO:CD	2.21	0.70
1:E:144:ARG:HD3	1:E:218:ILE:HD11	1.73	0.70
3:G:1300:GLY:N	3:G:1303:MET:HE3	2.02	0.70
3:G:804:PRO:HG2	3:G:967:PHE:CE2	2.25	0.70
1:A:157:TRP:HB3	1:A:334:ILE:HD12	1.74	0.70
3:C:1345:TRP:HZ3	3:C:1358:ARG:HB2	1.56	0.70
3:C:716:LEU:HD11	3:C:754:GLN:HB2	1.72	0.70
1:E:408:GLY:O	1:E:412:LYS:HB3	1.90	0.70
2:F:255:HIS:CG	2:F:256:SER:N	2.59	0.70
2:F:392:GLU:O	2:F:396:GLN:HG3	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1405:LEU:C	3:G:1407:LYS:H	1.92	0.70
1:A:244:LEU:CD1	1:A:256:GLN:HE22	2.03	0.70
1:A:349:THR:HG22	1:A:351:SER:H	1.56	0.70
2:F:441:LEU:HD12	2:F:446:GLN:OE1	1.90	0.70
3:G:975:LEU:C	3:G:975:LEU:HD12	2.12	0.70
4:H:243:LEU:HD22	4:H:253:LEU:HD12	1.71	0.70
3:C:1115:ARG:HG3	3:C:1115:ARG:HH11	1.57	0.70
3:G:1192:ALA:C	3:G:1193:TYR:HD1	1.93	0.70
3:G:430:PHE:N	3:G:430:PHE:HD2	1.87	0.70
1:A:152:PHE:O	1:A:155:ARG:NH1	2.24	0.70
3:C:1350:GLU:OE2	3:C:1351:PRO:HD2	1.92	0.70
3:C:875:CYS:HB3	3:C:878:THR:CG2	2.16	0.70
3:C:873:ASN:OD1	3:C:878:THR:HG21	1.92	0.70
3:C:921:ARG:HH22	3:C:945:ARG:NH2	1.88	0.70
3:C:935:ASN:C	3:C:935:ASN:ND2	2.44	0.70
4:D:354:SER:HB2	4:D:356:THR:HG23	1.72	0.70
1:E:82:ALA:HB2	1:E:104:LYS:HD3	1.72	0.70
3:C:920:GLU:HG2	3:C:923:LYS:NZ	2.07	0.70
2:F:336:MET:HG2	2:F:337:ASP:N	2.06	0.70
3:G:1143:PRO:HB2	3:G:1159:LEU:CD2	2.22	0.70
3:G:594:PHE:HD1	3:G:594:PHE:H	1.39	0.70
4:H:389:VAL:HG13	4:H:398:PHE:CE1	2.22	0.70
4:H:476:LEU:HD13	4:H:509:TYR:HD2	1.56	0.70
2:B:176:LEU:O	2:B:176:LEU:HD23	1.92	0.70
3:C:944:ILE:HA	3:C:947:LYS:HZ3	1.55	0.70
3:C:788:ASN:HD22	3:C:956:MET:HA	1.57	0.70
3:C:1185:ASN:ND2	3:C:1185:ASN:C	2.43	0.70
3:C:1345:TRP:HE3	3:C:1345:TRP:HA	1.57	0.70
4:D:185:ARG:HB2	4:D:188:ALA:HB3	1.73	0.70
2:F:247:GLN:HB2	2:F:248:PRO:HD3	1.74	0.70
4:H:227:LEU:HD23	4:H:301:VAL:CG1	2.21	0.70
4:H:307:ILE:O	4:H:315:VAL:HG22	1.91	0.70
3:C:1023:ASN:HA	3:C:1026:LYS:HB2	1.74	0.70
2:F:300:HIS:HA	2:F:331:PHE:CE1	2.27	0.70
3:G:1215:GLN:O	3:G:1218:PRO:HD2	1.92	0.70
3:C:1141:LYS:HZ2	3:C:1147:PRO:HD3	1.53	0.70
3:C:531:ASP:O	3:C:532:VAL:HG23	1.92	0.70
3:C:558:ILE:O	3:C:559:ALA:HB2	1.90	0.70
3:C:978:TYR:HA	3:C:981:ARG:NH2	2.07	0.70
4:D:539:ILE:HD13	4:D:557:VAL:HB	1.73	0.70
2:F:387:ARG:HH12	3:G:995:ASN:HB3	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1267:LEU:H	3:G:1267:LEU:HD12	1.56	0.70
3:G:513:TRP:HB3	3:G:627:HIS:CD2	2.27	0.70
3:G:700:LEU:O	3:G:701:ILE:HG22	1.91	0.70
4:H:343:LEU:CD1	4:H:344:VAL:H	2.03	0.70
1:A:209:HIS:CG	1:A:210:PRO:HD2	2.27	0.69
3:C:364:LYS:NZ	3:C:538:VAL:HG23	2.07	0.69
3:C:635:VAL:HG23	3:C:752:ILE:CG2	2.22	0.69
3:C:786:GLU:O	3:C:789:GLU:HB3	1.92	0.69
3:G:946:GLN:HE22	3:G:947:LYS:HG3	1.57	0.69
1:A:18:ARG:HG3	1:A:19:ARG:HG3	1.75	0.69
1:A:247:VAL:CG1	1:A:248:PRO:HD2	2.21	0.69
3:C:453:LEU:HG	3:C:455:VAL:HG23	1.74	0.69
4:D:310:THR:HG21	4:D:312:ARG:HD2	1.72	0.69
2:F:76:SER:O	2:F:79:ARG:HB3	1.91	0.69
3:G:1122:ASN:HA	3:G:1125:ASN:ND2	2.07	0.69
3:G:903:ASP:OD2	3:G:906:LEU:HD12	1.92	0.69
4:H:361:LEU:HA	4:H:364:ILE:CD1	2.21	0.69
3:C:1158:ALA:HA	3:C:1161:ILE:HD12	1.73	0.69
4:D:476:LEU:HD12	4:D:476:LEU:O	1.92	0.69
2:F:252:HIS:HD2	2:F:255:HIS:CD2	2.10	0.69
3:G:760:ASN:HB3	3:G:944:ILE:HD11	1.73	0.69
2:B:241:GLN:O	2:B:241:GLN:OE1	2.10	0.69
2:B:441:LEU:HD12	2:B:446:GLN:CD	2.12	0.69
3:C:1140:THR:O	3:C:1140:THR:HG22	1.90	0.69
3:C:1431:ARG:O	3:C:1435:ASN:ND2	2.25	0.69
3:C:543:SER:H	3:C:749:ALA:CB	2.03	0.69
4:D:399:GLU:O	4:D:403:LYS:HG2	1.93	0.69
3:G:1219:VAL:O	3:G:1222:ARG:HG2	1.92	0.69
3:G:756:MET:SD	3:G:762:LEU:HD21	2.32	0.69
1:A:135:MET:O	1:A:139:ILE:HG13	1.91	0.69
3:C:1225:GLU:HB3	3:C:1226:PRO:HD3	1.73	0.69
3:C:1244:THR:HG22	3:C:1247:ARG:HH22	1.57	0.69
3:C:1334:ILE:CG2	3:C:1440:PHE:CE1	2.75	0.69
3:C:1363:GLN:O	3:C:1370:LEU:HB3	1.93	0.69
3:C:1405:LEU:C	3:C:1407:LYS:H	1.93	0.69
2:B:139:LYS:HA	2:B:142:ASP:OD1	1.93	0.69
3:C:1028:GLU:O	3:C:1032:LEU:HG	1.92	0.69
3:C:1250:HIS:HE1	3:C:1254:ASP:CB	2.06	0.69
1:E:156:LEU:HD22	1:E:395:PHE:HE1	1.57	0.69
3:G:1216:ILE:H	3:G:1216:ILE:HD12	1.56	0.69
3:G:1349:GLU:HG2	3:G:1378:THR:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:585:VAL:HG22	3:G:618:LEU:CD1	2.20	0.69
3:G:939:ILE:HG22	3:G:940:LEU:N	2.08	0.69
1:A:5:ASP:OD1	1:A:8:GLU:HG3	1.92	0.69
2:B:434:VAL:HG23	2:B:436:ASP:N	2.06	0.69
3:C:1307:LEU:N	3:C:1307:LEU:HD12	2.07	0.69
4:D:255:GLY:C	4:D:272:LEU:HD11	2.13	0.69
4:D:389:VAL:HG13	4:D:398:PHE:CE1	2.25	0.69
2:F:28:PHE:O	2:F:30:LEU:N	2.26	0.69
2:F:367:CYS:HB3	2:F:421:GLN:NE2	2.07	0.69
2:F:441:LEU:HD11	2:F:447:PHE:HB2	1.75	0.69
3:G:873:ASN:ND2	3:G:878:THR:HG21	2.08	0.69
2:B:414:LEU:O	2:B:417:GLY:N	2.24	0.69
2:B:87:GLU:HG3	2:B:93:TYR:HE1	1.56	0.69
1:E:349:THR:HG22	1:E:351:SER:N	2.05	0.69
2:F:137:LYS:HZ3	2:F:181:GLU:HA	1.55	0.69
2:F:50:VAL:HG23	2:F:106:LEU:CD1	2.21	0.69
3:G:1010:THR:O	3:G:1011:ASN:HB2	1.93	0.69
3:G:1196:GLU:HG3	3:G:1197:GLN:H	1.56	0.69
3:G:1211:TYR:HA	3:G:1215:GLN:HB2	1.74	0.69
3:G:946:GLN:NE2	3:G:947:LYS:HG3	2.08	0.69
1:A:255:LEU:CD1	1:A:272:LEU:HD13	2.23	0.69
1:A:136:THR:HG23	1:A:339:VAL:HG12	1.74	0.69
2:B:23:PRO:CD	2:B:25:CYS:HB2	2.22	0.69
3:C:636:GLY:HA2	3:C:752:ILE:HD13	1.74	0.69
2:F:362:TYR:CD2	2:F:362:TYR:C	2.64	0.69
3:G:807:GLN:O	3:G:808:ILE:HG13	1.93	0.69
3:G:874:ILE:HD13	3:G:976:VAL:HG22	1.73	0.69
1:A:177:LEU:N	1:A:182:ARG:HH21	1.89	0.69
1:E:49:LEU:HB3	1:E:50:LYS:HZ2	1.57	0.69
3:C:1212:LEU:HD22	3:C:1239:LEU:HB3	1.74	0.69
3:C:732:TYR:CD2	3:C:738:LEU:HD13	2.28	0.69
4:D:164:ARG:HH12	4:D:167:ARG:NH2	1.90	0.69
1:E:141:ILE:HG22	1:E:142:ILE:HD13	1.75	0.69
3:G:1119:ILE:O	3:G:1123:VAL:HG23	1.93	0.69
3:G:1273:TYR:HD2	3:G:1394:PHE:HD1	1.40	0.69
3:G:387:LEU:HD12	3:G:457:TYR:HE1	1.57	0.69
2:B:121:ILE:HG12	2:B:226:LEU:HD23	1.74	0.68
2:F:414:LEU:O	2:F:417:GLY:N	2.25	0.68
2:F:358:LYS:CD	3:G:1274:ARG:HH22	2.04	0.68
1:A:276:ALA:O	1:A:279:TYR:HB3	1.93	0.68
3:C:1141:LYS:HZ1	3:C:1147:PRO:CD	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:364:LYS:NZ	3:C:537:LEU:HA	2.07	0.68
4:D:265:LEU:HD13	4:D:298:PRO:HG3	1.76	0.68
1:A:27:TYR:HB2	1:A:63:GLN:HG3	1.75	0.68
3:C:1345:TRP:CE3	3:C:1345:TRP:HA	2.28	0.68
3:C:499:LEU:CD2	3:C:528:VAL:HG22	2.24	0.68
3:C:954:ASN:HD22	3:C:954:ASN:N	1.87	0.68
4:H:175:GLY:O	4:H:176:LEU:HD23	1.94	0.68
4:H:186:GLY:HA3	4:H:371:ARG:NH2	2.08	0.68
1:A:244:LEU:HD13	1:A:256:GLN:HE22	1.58	0.68
3:C:543:SER:HB2	3:C:749:ALA:N	2.08	0.68
4:D:243:LEU:HD22	4:D:253:LEU:HD13	1.74	0.68
3:G:1023:ASN:O	3:G:1026:LYS:HB3	1.94	0.68
3:G:1186:LEU:HD13	3:G:1190:GLN:HB3	1.74	0.68
3:G:1245:GLN:O	3:G:1248:VAL:HB	1.93	0.68
3:G:366:TRP:HB2	3:G:373:HIS:CD2	2.28	0.68
3:G:549:ASN:HD21	3:G:552:ASN:N	1.92	0.68
3:G:873:ASN:ND2	3:G:878:THR:CG2	2.57	0.68
2:B:258:THR:HG21	2:B:261:ASP:OD1	1.94	0.68
2:B:75:GLU:HB3	2:B:130:PHE:HZ	1.59	0.68
3:C:512:SER:HB2	3:C:664:ARG:O	1.93	0.68
2:F:178:LEU:O	2:F:179:GLY:O	2.12	0.68
3:G:1009:ASN:OD1	3:G:1011:ASN:ND2	2.27	0.68
3:G:1340:LYS:HD3	3:G:1383:TYR:CD1	2.28	0.68
3:G:350:GLU:HB3	3:G:359:VAL:HG22	1.74	0.68
2:B:434:VAL:HG23	2:B:436:ASP:H	1.58	0.68
3:C:1007:MET:SD	3:C:1047:LEU:HD21	2.33	0.68
4:D:327:PHE:HZ	4:D:552:LEU:O	1.77	0.68
1:E:120:ARG:HB3	1:E:120:ARG:NH1	2.09	0.68
1:E:106:LEU:HD21	1:E:185:ILE:HD13	1.75	0.68
1:E:89:ASN:N	1:E:89:ASN:HD22	1.91	0.68
1:A:87:ARG:HD3	1:A:90:GLN:NE2	2.08	0.68
3:C:354:ASN:N	3:C:354:ASN:HD22	1.90	0.68
3:C:496:PRO:O	3:C:497:CYS:HB3	1.93	0.68
2:F:287:CYS:SG	2:F:288:MET:HE3	2.33	0.68
3:G:395:LYS:HB2	3:G:408:ILE:HD11	1.74	0.68
1:A:87:ARG:HD3	1:A:90:GLN:HE21	1.59	0.68
2:B:178:LEU:O	2:B:179:GLY:O	2.11	0.68
2:B:376:PRO:HD2	2:B:388:HIS:CD2	2.29	0.68
3:C:865:TYR:O	3:C:869:ILE:HG13	1.94	0.68
2:F:103:HIS:NE2	2:F:107:ARG:NE	2.40	0.68
3:G:1230:ILE:CD1	3:G:1238:TRP:HH2	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:474:THR:HG21	4:H:518:MET:HE2	1.75	0.68
1:E:192:VAL:HG23	1:E:302:PHE:CE1	2.28	0.68
3:G:651:ILE:CG2	3:G:652:ASN:N	2.57	0.68
4:H:573:ARG:O	4:H:593:VAL:HG13	1.94	0.68
2:B:443:HIS:HE1	2:B:445:ASN:H	1.38	0.68
4:D:400:ASP:O	4:D:403:LYS:N	2.26	0.68
2:F:259:GLY:O	2:F:260:GLN:HB2	1.94	0.68
3:G:1182:ASP:N	3:G:1182:ASP:OD2	2.25	0.68
3:G:1050:LEU:HD11	3:G:1222:ARG:O	1.93	0.68
3:G:416:GLU:OE1	3:G:471:GLU:N	2.27	0.68
3:G:364:LYS:NZ	3:G:537:LEU:HD23	2.01	0.68
3:G:957:TYR:O	3:G:959:CYS:N	2.27	0.68
4:H:343:LEU:HD11	4:H:571:PHE:HD1	1.59	0.68
1:A:202:VAL:HG11	1:A:298:LEU:HD12	1.77	0.67
2:B:369:LYS:O	2:B:371:ILE:N	2.27	0.67
3:C:1116:LEU:HA	3:C:1119:ILE:CG1	2.24	0.67
3:C:549:ASN:HD21	3:C:552:ASN:N	1.92	0.67
2:F:23:PRO:C	2:F:25:CYS:N	2.47	0.67
3:G:1035:LEU:O	3:G:1037:GLU:HG3	1.93	0.67
4:H:334:ASP:HA	4:H:337:PHE:CD2	2.28	0.67
2:B:410:GLN:NE2	2:B:426:LYS:HE3	2.09	0.67
3:C:1105:ARG:HA	3:C:1108:ILE:CD1	2.24	0.67
3:C:549:ASN:HD21	3:C:552:ASN:H	1.41	0.67
4:D:467:VAL:HG11	4:D:576:LEU:HD13	1.76	0.67
1:E:162:ARG:HG3	1:E:327:THR:CG2	2.22	0.67
2:F:295:LEU:O	2:F:295:LEU:HD12	1.93	0.67
3:G:990:MET:O	3:G:994:MET:HG3	1.93	0.67
4:H:209:MET:SD	4:H:209:MET:O	2.52	0.67
2:B:39:LEU:HD11	2:B:245:ARG:HD2	1.76	0.67
3:C:1035:LEU:O	3:C:1037:GLU:HG3	1.95	0.67
3:C:1235:ILE:N	3:C:1235:ILE:HD12	2.09	0.67
3:C:1441:LEU:HD23	3:C:1441:LEU:N	2.10	0.67
3:C:395:LYS:HB2	3:C:408:ILE:HD11	1.76	0.67
2:F:389:SER:OG	2:F:397:LYS:NZ	2.26	0.67
3:C:651:ILE:HG23	3:C:652:ASN:N	2.09	0.67
1:E:232:ASP:OD2	1:E:235:GLU:HB3	1.95	0.67
1:E:24:SER:HA	1:E:63:GLN:OE1	1.95	0.67
3:G:784:ARG:CD	3:G:784:ARG:H	2.08	0.67
3:C:340:VAL:HG23	3:C:501:VAL:O	1.95	0.67
4:D:571:PHE:CD2	4:D:571:PHE:N	2.63	0.67
1:E:352:PHE:O	1:E:355:ARG:HB3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:313:LEU:CB	2:F:318:LEU:HD12	2.24	0.67
3:G:1360:LEU:HD22	4:H:216:ILE:CG2	2.23	0.67
3:G:362:PHE:CZ	3:G:665:LEU:HG	2.28	0.67
3:G:543:SER:H	3:G:749:ALA:CB	2.03	0.67
3:C:628:LYS:HG2	3:G:933:ASP:CB	2.23	0.67
4:H:267:ASN:O	4:H:288:LEU:HD12	1.95	0.67
2:B:32:PRO:HA	2:B:104:PHE:CE2	2.29	0.67
2:B:255:HIS:CG	2:B:256:SER:N	2.62	0.67
2:B:53:LEU:HD21	2:B:124:GLU:OE1	1.94	0.67
3:C:1047:LEU:HD13	3:C:1057:ALA:HB2	1.77	0.67
3:C:1076:GLY:C	3:C:1077:LEU:HD23	2.15	0.67
3:C:549:ASN:ND2	3:C:552:ASN:H	1.92	0.67
3:C:695:ILE:HD12	3:C:781:MET:O	1.95	0.67
2:F:163:GLU:HG3	2:F:178:LEU:HD22	1.75	0.67
3:G:1146:TYR:CE2	3:G:1155:VAL:HG21	2.29	0.67
4:H:240:PHE:CD1	4:H:254:LEU:HB2	2.29	0.67
3:C:1139:LEU:CD1	3:C:1139:LEU:H	2.08	0.67
3:C:583:PHE:CE2	3:C:625:LYS:HE2	2.29	0.67
3:C:693:VAL:HG11	3:C:755:ILE:HG22	1.75	0.67
3:C:788:ASN:O	3:C:789:GLU:C	2.33	0.67
1:A:95:LYS:NZ	3:C:881:ARG:H	1.92	0.67
1:E:135:MET:SD	1:E:164:GLY:HA2	2.35	0.67
2:F:170:SER:CB	2:F:171:PRO:HD2	2.24	0.67
3:G:1095:VAL:O	3:G:1097:GLY:N	2.28	0.67
3:G:1251:TYR:HD1	3:G:1254:ASP:H	1.42	0.67
2:B:427:TYR:O	2:B:431:ILE:HG22	1.94	0.67
3:C:1141:LYS:HZ1	3:C:1147:PRO:HD3	1.58	0.67
3:C:843:LEU:HB3	3:C:981:ARG:HG2	1.76	0.67
4:D:243:LEU:HB3	4:D:284:ILE:CD1	2.25	0.67
3:G:843:LEU:H	3:G:981:ARG:HG2	1.59	0.67
3:G:865:TYR:HD2	3:G:865:TYR:N	1.92	0.67
4:H:227:LEU:HD23	4:H:301:VAL:HG11	1.77	0.67
3:C:597:ALA:O	3:C:601:VAL:HG23	1.95	0.67
3:C:957:TYR:O	3:C:959:CYS:N	2.28	0.67
3:G:1141:LYS:HZ2	3:G:1147:PRO:HD3	1.58	0.67
3:G:351:ASP:OD2	3:G:354:ASN:HB2	1.95	0.67
3:G:762:LEU:HD23	3:G:762:LEU:N	2.08	0.67
4:H:367:ILE:O	4:H:372:PRO:HD2	1.95	0.67
3:C:874:ILE:HD13	3:C:976:VAL:CG2	2.24	0.67
4:H:360:LEU:CD1	4:H:409:ILE:HD11	2.16	0.67
1:A:234:LEU:CD2	1:A:243:ILE:HD12	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:443:ILE:O	3:C:446:VAL:HG23	1.94	0.66
3:C:876:PHE:CZ	3:C:960:LEU:HD21	2.29	0.66
3:C:953:ALA:O	3:C:956:MET:N	2.26	0.66
4:D:538:LEU:HG	4:D:540:ILE:HG13	1.77	0.66
4:D:571:PHE:HD2	4:D:571:PHE:N	1.93	0.66
1:E:382:ASP:OD1	1:E:385:LYS:HD2	1.95	0.66
1:A:213:ARG:HG2	1:A:213:ARG:HH11	1.59	0.66
2:B:45:LEU:CD1	2:B:101:ILE:HG21	2.25	0.66
3:C:362:PHE:CD2	3:C:687:GLY:HA3	2.30	0.66
3:C:903:ASP:OD2	3:C:906:LEU:HD12	1.95	0.66
3:C:589:PRO:CG	3:C:592:CYS:HB2	2.24	0.66
2:F:308:GLN:CD	2:F:370:ILE:HD13	2.16	0.66
3:G:542:PHE:CD2	3:G:542:PHE:O	2.49	0.66
3:G:622:PHE:CE2	3:G:647:LEU:HD21	2.27	0.66
4:H:257:ILE:HD11	4:H:302:VAL:CG1	2.25	0.66
4:H:341:MET:HE2	4:H:573:ARG:CD	2.25	0.66
4:H:426:LEU:HD12	4:H:518:MET:HE2	1.77	0.66
3:C:1111:ASN:O	3:C:1114:LYS:HB3	1.95	0.66
4:D:171:VAL:CG2	4:D:595:VAL:HG12	2.25	0.66
1:E:262:SER:HB2	1:E:268:ARG:NE	2.08	0.66
3:G:991:VAL:HG12	3:G:996:LEU:O	1.95	0.66
4:H:286:VAL:HG11	4:H:304:MET:HE1	1.76	0.66
3:C:1009:ASN:HD21	3:C:1011:ASN:HD21	1.41	0.66
3:C:1095:VAL:O	3:C:1097:GLY:N	2.28	0.66
3:C:1437:ALA:O	3:C:1440:PHE:N	2.29	0.66
3:C:492:LYS:O	3:C:494:LYS:HD2	1.96	0.66
3:C:747:LYS:O	3:C:751:PHE:CD1	2.49	0.66
1:E:162:ARG:CZ	1:E:326:LYS:HD3	2.25	0.66
1:E:159:TYR:HE2	1:E:329:ARG:HB2	1.60	0.66
2:F:313:LEU:HB3	2:F:318:LEU:CD1	2.24	0.66
3:G:935:ASN:ND2	3:G:935:ASN:C	2.49	0.66
4:H:342:VAL:HG21	4:H:464:ILE:HD13	1.78	0.66
1:A:50:LYS:NZ	1:A:73:MET:O	2.25	0.66
2:B:336:MET:HE2	2:B:340:LYS:HD3	1.76	0.66
3:C:364:LYS:HZ2	3:C:537:LEU:HA	1.60	0.66
3:C:759:LEU:N	3:C:759:LEU:HD23	2.09	0.66
3:C:778:ARG:HA	3:C:781:MET:SD	2.35	0.66
4:D:240:PHE:CD1	4:D:254:LEU:HB2	2.30	0.66
1:E:221:LYS:HB3	1:E:222:TYR:CD1	2.30	0.66
1:E:68:LYS:CE	1:E:72:LYS:HD3	2.25	0.66
2:F:312:PHE:O	2:F:316:ILE:HG23	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:PHE:HD1	1:A:167:CYS:SG	2.19	0.66
3:C:1236:ALA:HB1	3:C:1246:PHE:CD2	2.30	0.66
2:B:358:LYS:NZ	3:C:1274:ARG:NH2	2.43	0.66
3:C:350:GLU:OE2	3:C:484:LEU:HB2	1.94	0.66
3:C:364:LYS:HE3	3:C:632:ASP:OD1	1.95	0.66
3:C:944:ILE:CG1	3:C:947:LYS:HZ1	2.08	0.66
2:F:184:TYR:HE1	2:F:210:PRO:C	1.99	0.66
2:F:243:ASP:OD1	2:F:245:ARG:N	2.28	0.66
3:G:1036:LEU:HD12	3:G:1037:GLU:H	1.60	0.66
3:G:1186:LEU:CD2	3:G:1187:THR:H	2.08	0.66
3:G:865:TYR:N	3:G:866:PRO:CD	2.59	0.66
3:G:932:GLN:HE21	3:G:933:ASP:H	1.43	0.66
3:C:1116:LEU:HA	3:C:1119:ILE:HG12	1.78	0.66
1:E:146:LEU:O	1:E:152:PHE:HB2	1.95	0.66
1:E:384:LYS:HA	1:E:389:ALA:HB2	1.78	0.66
1:E:8:GLU:O	1:E:12:LEU:HG	1.96	0.66
3:G:1185:ASN:HD22	3:G:1185:ASN:C	1.98	0.66
3:G:1235:ILE:HA	3:G:1238:TRP:CE3	2.30	0.66
3:G:375:SER:HB2	3:G:514:CYS:SG	2.36	0.66
3:G:564:VAL:HG12	3:G:565:HIS:H	1.61	0.66
3:G:788:ASN:HD22	3:G:956:MET:HE3	1.60	0.66
1:A:154:HIS:N	1:A:154:HIS:CD2	2.60	0.66
2:B:156:ASP:HA	2:B:159:LYS:HB3	1.76	0.66
2:B:282:LYS:HA	2:B:431:ILE:HD11	1.78	0.66
1:E:142:ILE:O	1:E:146:LEU:HG	1.95	0.66
1:E:150:PHE:HB3	1:E:152:PHE:CD1	2.30	0.66
1:E:156:LEU:HD11	1:E:333:PRO:HB3	1.77	0.66
3:G:1206:ILE:HD13	3:G:1207:ASP:H	1.60	0.66
3:G:1250:HIS:ND1	3:G:1251:TYR:N	2.42	0.66
3:G:745:THR:HG22	3:G:746:TRP:N	2.09	0.66
3:G:769:THR:HG23	3:G:774:ASN:OD1	1.95	0.66
3:G:903:ASP:OD1	3:G:905:SER:N	2.28	0.66
3:G:947:LYS:O	3:G:950:LYS:HB3	1.96	0.66
4:H:259:CYS:HB2	4:H:265:LEU:HD12	1.78	0.66
4:H:296:LEU:HD23	4:H:300:GLN:NE2	2.11	0.66
2:B:167:VAL:HG13	2:B:173:LEU:CD2	2.25	0.66
3:C:1122:ASN:HA	3:C:1125:ASN:HD21	1.58	0.66
3:C:1085:CYS:SG	3:C:1132:GLN:O	2.48	0.66
3:C:341:PHE:HE2	3:C:365:VAL:HG11	1.61	0.66
3:C:618:LEU:HD23	3:C:618:LEU:C	2.16	0.66
3:C:586:VAL:HG11	3:C:742:LEU:CD1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:157:TRP:HA	1:E:166:HIS:O	1.95	0.66
1:E:335:ASP:OD1	1:E:338:LYS:HD2	1.96	0.66
2:F:276:ILE:HG23	2:F:284:PHE:HZ	1.60	0.66
3:G:555:ASN:HD22	3:G:555:ASN:N	1.75	0.66
4:H:447:ARG:NH1	4:H:447:ARG:HG2	2.10	0.66
2:B:246:LEU:O	2:B:250:LEU:HD12	1.96	0.65
3:C:1045:LYS:O	3:C:1045:LYS:HG2	1.96	0.65
3:C:1112:ILE:O	3:C:1116:LEU:HD13	1.95	0.65
4:D:548:VAL:HG13	4:D:557:VAL:HG22	1.79	0.65
2:F:158:GLU:HG2	2:F:162:ARG:NH2	2.10	0.65
2:F:369:LYS:O	2:F:371:ILE:N	2.29	0.65
3:G:1395:TYR:HA	3:G:1398:ILE:CD1	2.25	0.65
3:G:1395:TYR:O	3:G:1398:ILE:HG13	1.96	0.65
3:G:876:PHE:HA	3:G:881:ARG:NH1	2.11	0.65
1:A:235:GLU:C	1:A:236:ASN:HD22	1.98	0.65
2:B:421:GLN:HG2	6:B:601:SF4:S4	2.36	0.65
3:C:1047:LEU:HG	3:C:1049:LEU:HD21	1.77	0.65
4:D:445:LEU:CD1	4:D:450:LYS:HZ3	2.09	0.65
4:D:170:VAL:CG1	4:D:594:GLN:HE21	2.00	0.65
1:E:48:THR:OG1	1:E:77:LYS:HB2	1.96	0.65
3:G:1335:ARG:NH2	4:H:433:PRO:HD3	2.11	0.65
3:G:767:GLN:OE1	3:G:945:ARG:HB2	1.96	0.65
3:G:861:PHE:HD1	3:G:864:LEU:HD22	1.61	0.65
3:C:1250:HIS:CE1	3:C:1251:TYR:HB2	2.31	0.65
3:C:653:VAL:HG12	3:C:654:CYS:N	2.11	0.65
4:D:212:LYS:HZ2	4:D:215:ASP:CG	1.99	0.65
2:F:22:TYR:CB	2:F:84:SER:OG	2.44	0.65
3:G:1058:LEU:CD2	3:G:1100:LEU:HD22	2.26	0.65
3:G:1149:LYS:HD3	3:G:1150:LYS:H	1.60	0.65
3:G:513:TRP:HB3	3:G:627:HIS:NE2	2.11	0.65
3:G:440:ALA:O	3:G:881:ARG:NH2	2.29	0.65
4:H:567:VAL:CG1	4:H:568:GLY:H	2.09	0.65
2:B:104:PHE:HE1	2:B:107:ARG:NH2	1.93	0.65
2:B:23:PRO:C	2:B:25:CYS:N	2.49	0.65
3:C:1044:PHE:HA	3:C:1058:LEU:O	1.96	0.65
3:C:491:ARG:CZ	3:C:524:ASP:HA	2.26	0.65
3:C:499:LEU:HD22	3:C:528:VAL:HG22	1.78	0.65
2:F:114:GLU:CD	2:F:117:ARG:HH12	2.00	0.65
3:G:1044:PHE:HA	3:G:1058:LEU:O	1.96	0.65
3:G:1157:VAL:O	3:G:1161:ILE:HG13	1.96	0.65
3:G:1187:THR:O	3:G:1191:ARG:HG3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:468:LEU:CD2	3:G:476:VAL:HG11	2.22	0.65
3:G:953:ALA:O	3:G:956:MET:N	2.28	0.65
4:H:464:ILE:HD12	4:H:469:PHE:CE1	2.31	0.65
4:H:531:LEU:N	4:H:531:LEU:HD23	2.11	0.65
3:C:1201:GLN:HE21	3:C:1204:LEU:HG	1.61	0.65
3:C:375:SER:HB2	3:C:514:CYS:SG	2.36	0.65
3:G:484:LEU:O	3:G:488:LEU:HD23	1.96	0.65
3:G:1364:PHE:CB	4:H:217:ARG:HE	2.07	0.65
4:H:494:ARG:NH1	4:H:494:ARG:HG3	2.09	0.65
1:A:212:ILE:O	1:A:216:ILE:HG13	1.95	0.65
4:D:593:VAL:HG12	4:D:594:GLN:N	2.10	0.65
2:F:342:ASP:HA	2:F:346:SER:HB3	1.78	0.65
3:G:1201:GLN:NE2	3:G:1204:LEU:HG	2.11	0.65
3:G:558:ILE:O	3:G:558:ILE:HD12	1.97	0.65
4:H:156:THR:N	4:H:157:PRO:CD	2.59	0.65
4:H:198:CYS:HB2	4:H:199:PRO:CD	2.26	0.65
3:C:1242:ASP:O	3:C:1246:PHE:HB2	1.96	0.65
3:C:974:ALA:HA	3:C:977:THR:OG1	1.97	0.65
4:D:224:ILE:HD13	4:D:256:GLN:HB3	1.79	0.65
2:F:192:LEU:HA	2:F:195:PHE:CE2	2.31	0.65
3:G:1025:VAL:O	3:G:1029:VAL:HG23	1.96	0.65
3:G:1047:LEU:HD13	3:G:1057:ALA:HB2	1.79	0.65
3:G:499:LEU:CD2	3:G:528:VAL:HG22	2.27	0.65
1:A:110:ILE:HG12	1:A:305:LEU:HD21	1.79	0.65
2:B:362:TYR:C	2:B:362:TYR:HD2	2.00	0.65
3:C:775:ILE:O	3:C:775:ILE:HG22	1.95	0.65
1:E:68:LYS:HE3	1:E:72:LYS:NZ	2.10	0.65
4:H:445:LEU:HB2	4:H:450:LYS:NZ	2.12	0.65
4:H:458:GLU:OE1	4:H:472:THR:HA	1.97	0.65
4:H:574:LEU:HG	4:H:593:VAL:HG22	1.79	0.65
3:C:1157:VAL:HG21	3:C:1177:TYR:CB	2.27	0.65
3:C:1233:VAL:O	3:C:1237:THR:HG23	1.97	0.65
3:C:522:LYS:HG3	3:C:525:LEU:HG	1.79	0.65
3:C:556:GLU:HA	3:C:650:ARG:HE	1.61	0.65
3:C:799:ASN:O	3:C:801:TYR:HD1	1.80	0.65
3:C:858:LEU:HD13	3:C:1007:MET:CG	2.26	0.65
4:D:257:ILE:CG2	4:D:258:GLY:N	2.49	0.65
4:D:394:LEU:HD13	4:D:401:ILE:CD1	2.26	0.65
4:D:445:LEU:HD13	4:D:450:LYS:NZ	2.12	0.65
3:G:1135:ILE:HD12	3:G:1177:TYR:CE1	2.31	0.65
3:G:464:LEU:HD13	3:G:468:LEU:CD2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:669:ASN:N	3:G:669:ASN:ND2	2.44	0.65
2:B:285:PRO:HG2	2:B:287:CYS:SG	2.37	0.65
3:C:1219:VAL:O	3:C:1222:ARG:HG2	1.97	0.65
3:C:540:MET:HE3	3:C:631:PRO:HG3	1.79	0.65
3:C:607:VAL:O	3:C:609:VAL:N	2.28	0.65
3:C:488:LEU:HD11	3:C:775:ILE:HD11	1.78	0.65
3:C:865:TYR:N	3:C:865:TYR:CD2	2.65	0.65
2:F:309:TYR:O	2:F:313:LEU:HG	1.97	0.65
3:G:1322:PHE:HD1	3:G:1325:GLN:HE22	1.43	0.65
3:G:555:ASN:ND2	3:G:555:ASN:N	2.31	0.65
4:H:465:ASN:O	4:H:467:VAL:HG23	1.96	0.65
1:A:202:VAL:HG11	1:A:298:LEU:CD1	2.27	0.64
3:C:1108:ILE:O	3:C:1112:ILE:HG13	1.97	0.64
4:D:356:THR:OG1	4:D:358:ASP:OD2	2.15	0.64
2:F:437:CYS:SG	2:F:438:GLY:N	2.70	0.64
3:G:1118:GLU:O	3:G:1119:ILE:C	2.36	0.64
1:A:96:LEU:O	3:C:880:GLN:NE2	2.31	0.64
3:C:1400:ASP:HA	3:C:1434:LYS:HD3	1.80	0.64
3:C:857:LEU:HD21	3:C:859:LEU:CD2	2.27	0.64
4:D:532:PRO:HG2	4:D:533:VAL:H	1.62	0.64
1:E:68:LYS:HE3	1:E:72:LYS:HD3	1.78	0.64
2:F:75:GLU:HB3	2:F:130:PHE:CZ	2.27	0.64
3:G:855:PHE:HE2	3:G:1045:LYS:HG3	1.62	0.64
3:G:645:GLU:O	3:G:646:VAL:C	2.35	0.64
3:G:794:HIS:O	3:G:797:TYR:HB2	1.97	0.64
3:G:875:CYS:SG	3:G:877:THR:N	2.69	0.64
2:B:94:GLU:HG3	2:B:95:PRO:CD	2.27	0.64
3:C:1038:ILE:HG13	3:C:1039:ASP:H	1.60	0.64
3:C:1279:PHE:CE1	3:C:1280:LYS:O	2.50	0.64
3:C:344:TYR:HB2	3:C:498:TRP:CE2	2.32	0.64
3:C:599:LYS:HE2	3:C:611:VAL:HG13	1.78	0.64
4:D:383:ASP:OD1	4:D:385:LYS:N	2.31	0.64
3:G:1058:LEU:HD21	3:G:1100:LEU:HD22	1.80	0.64
2:B:62:SER:C	2:B:63:TYR:HD2	2.01	0.64
3:C:555:ASN:HD22	3:C:555:ASN:N	1.86	0.64
2:F:355:LYS:HG2	3:G:1247:ARG:CZ	2.27	0.64
3:G:349:TYR:HD1	3:G:665:LEU:HD12	1.62	0.64
3:G:589:PRO:CG	3:G:592:CYS:HB2	2.26	0.64
3:G:760:ASN:O	3:G:763:PRO:HD2	1.96	0.64
3:G:866:PRO:HG3	3:G:954:ASN:HA	1.79	0.64
2:B:49:ARG:NH1	2:B:124:GLU:OE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:228:LYS:O	2:B:231:ALA:HB3	1.98	0.64
2:B:422:VAL:HA	2:B:425:GLN:HG3	1.80	0.64
2:B:94:GLU:CB	2:B:95:PRO:HD3	2.27	0.64
3:C:1235:ILE:O	3:C:1238:TRP:HB2	1.96	0.64
3:C:903:ASP:CG	3:C:905:SER:H	2.01	0.64
3:G:1221:ALA:O	3:G:1223:ILE:N	2.30	0.64
3:G:1437:ALA:O	3:G:1440:PHE:N	2.29	0.64
3:G:522:LYS:HG3	3:G:525:LEU:HD11	1.79	0.64
3:G:873:ASN:HD21	3:G:878:THR:CG2	2.10	0.64
4:H:477:LEU:HD11	4:H:499:LEU:HG	1.79	0.64
3:C:1157:VAL:HG21	3:C:1177:TYR:HB3	1.78	0.64
3:C:529:ILE:HG23	3:C:529:ILE:O	1.96	0.64
3:C:720:ARG:HD3	3:C:721:VAL:O	1.97	0.64
4:D:164:ARG:HH12	4:D:167:ARG:HH21	1.44	0.64
1:E:9:LEU:HD23	1:E:9:LEU:O	1.97	0.64
2:F:199:LYS:O	2:F:200:VAL:HG13	1.97	0.64
3:G:1185:ASN:C	3:G:1185:ASN:ND2	2.50	0.64
3:G:853:ASP:HB3	3:G:854:LYS:HD3	1.77	0.64
4:H:286:VAL:HG11	4:H:304:MET:CE	2.28	0.64
3:C:1050:LEU:HD22	3:C:1226:PRO:HG2	1.78	0.64
3:C:650:ARG:O	3:C:654:CYS:SG	2.54	0.64
3:C:631:PRO:O	3:C:688:ARG:NH1	2.31	0.64
3:C:346:LEU:HB3	3:C:689:MET:HE2	1.79	0.64
4:D:291:LEU:HD11	4:D:317:THR:C	2.18	0.64
1:E:335:ASP:HB3	1:E:338:LYS:HG2	1.79	0.64
2:F:45:LEU:HD12	2:F:101:ILE:HG21	1.80	0.64
2:F:171:PRO:C	2:F:173:LEU:H	2.00	0.64
3:G:1128:VAL:HG11	3:G:1133:PHE:HE2	1.62	0.64
3:G:549:ASN:ND2	3:G:552:ASN:H	1.95	0.64
3:G:618:LEU:HD23	3:G:619:LEU:CD2	2.28	0.64
2:B:23:PRO:HG3	2:B:93:TYR:OH	1.97	0.64
2:B:300:HIS:ND1	2:B:301:LEU:N	2.45	0.64
2:B:368:LEU:HD21	2:B:372:LEU:HD12	1.78	0.64
3:C:856:ILE:HG21	3:C:1007:MET:HG2	1.79	0.64
3:C:1143:PRO:HB2	3:C:1159:LEU:CD2	2.28	0.64
3:C:411:LYS:HD2	3:C:411:LYS:H	1.62	0.64
3:C:721:VAL:HG12	3:C:722:VAL:N	2.13	0.64
3:C:943:ASP:OD2	3:C:947:LYS:NZ	2.31	0.64
4:D:156:THR:N	4:D:157:PRO:CD	2.59	0.64
4:D:257:ILE:HD12	4:D:270:VAL:CG1	2.28	0.64
4:D:270:VAL:HG12	4:D:271:ILE:N	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1362:LEU:HD22	4:D:273:GLU:HG2	1.79	0.64
1:E:139:ILE:HD11	1:E:334:ILE:CD1	2.28	0.64
1:E:204:LEU:HD22	1:E:208:ILE:HD11	1.80	0.64
2:F:158:GLU:HG2	2:F:162:ARG:HH21	1.61	0.64
2:F:316:ILE:N	2:F:445:ASN:HD21	1.95	0.64
3:G:1046:SER:HB2	3:G:1058:LEU:CD1	2.28	0.64
3:G:344:TYR:HB2	3:G:498:TRP:CE2	2.33	0.64
4:H:426:LEU:CD1	4:H:518:MET:HE2	2.28	0.64
3:C:796:PHE:CZ	3:C:910:ILE:HG21	2.33	0.64
3:G:1422:PHE:CD2	3:G:1422:PHE:N	2.65	0.64
4:H:224:ILE:CD1	4:H:256:GLN:HB3	2.28	0.64
1:A:108:PHE:HZ	1:A:185:ILE:HG21	1.62	0.64
2:B:74:LEU:HD23	2:B:130:PHE:CG	2.33	0.64
3:C:1372:PRO:HA	3:C:1375:MET:CE	2.27	0.64
3:C:549:ASN:ND2	3:C:552:ASN:N	2.46	0.64
1:E:89:ASN:ND2	1:E:89:ASN:H	1.95	0.64
3:G:599:LYS:HE2	3:G:611:VAL:HG13	1.78	0.64
3:G:788:ASN:O	3:G:789:GLU:C	2.35	0.64
4:H:423:VAL:O	4:H:423:VAL:HG12	1.97	0.64
4:H:532:PRO:HG2	4:H:533:VAL:N	2.13	0.64
1:A:160:SER:HB3	1:A:166:HIS:NE2	2.13	0.63
2:B:47:ILE:HD11	3:C:1266:GLN:CB	2.23	0.63
3:C:946:GLN:NE2	3:C:947:LYS:HG3	2.14	0.63
4:D:193:LEU:CD1	4:D:462:LEU:HD21	2.25	0.63
2:F:156:ASP:HA	2:F:159:LYS:HB3	1.80	0.63
3:G:1198:LEU:HG	3:G:1199:GLN:N	2.13	0.63
3:G:512:SER:HB2	3:G:664:ARG:O	1.98	0.63
3:G:867:SER:O	3:G:870:GLN:HB2	1.98	0.63
3:G:792:LEU:HD12	3:G:967:PHE:CD1	2.33	0.63
3:G:975:LEU:O	3:G:975:LEU:HD12	1.98	0.63
4:H:202:LEU:HD22	4:H:457:SER:CB	2.24	0.63
4:H:260:ASP:OD2	4:H:269:SER:HB3	1.98	0.63
4:H:495:PHE:HA	4:H:498:ILE:HD12	1.80	0.63
2:B:105:ILE:HG22	2:B:106:LEU:N	2.14	0.63
2:B:120:PHE:CD2	2:B:230:LEU:HD11	2.33	0.63
2:B:293:LYS:HE2	2:B:297:GLU:CG	2.27	0.63
3:C:1115:ARG:HG3	3:C:1115:ARG:NH1	2.11	0.63
3:C:1139:LEU:HD13	3:C:1139:LEU:H	1.64	0.63
3:C:1160:TRP:HE3	3:C:1161:ILE:HG13	1.62	0.63
3:C:360:PHE:HE2	3:C:379:MET:HG3	1.62	0.63
4:D:227:LEU:HD23	4:D:301:VAL:HG11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1267:LEU:N	3:G:1267:LEU:HD12	2.12	0.63
3:G:1273:TYR:CD2	3:G:1394:PHE:HD1	2.16	0.63
3:G:507:LEU:N	3:G:507:LEU:HD12	2.13	0.63
3:G:604:LYS:HD3	3:G:604:LYS:C	2.18	0.63
2:B:118:ARG:HH11	2:B:118:ARG:CG	2.11	0.63
2:B:421:GLN:NE2	2:B:442:ASN:HA	2.12	0.63
3:C:1211:TYR:HA	3:C:1215:GLN:HB2	1.80	0.63
3:C:1244:THR:HA	3:C:1247:ARG:CZ	2.29	0.63
3:C:353:TYR:HD2	3:C:354:ASN:HD21	1.46	0.63
3:C:972:LEU:H	3:C:972:LEU:CD2	2.10	0.63
4:D:302:VAL:CG2	4:D:304:MET:HG3	2.27	0.63
2:F:22:TYR:HB3	2:F:23:PRO:CD	2.28	0.63
3:G:1098:GLN:OE1	3:G:1098:GLN:HA	1.98	0.63
3:G:843:LEU:HD23	3:G:984:LEU:HB3	1.80	0.63
4:H:385:LYS:HD3	4:H:427:ARG:NH2	2.13	0.63
2:B:163:GLU:HG3	2:B:178:LEU:CD2	2.28	0.63
1:E:110:ILE:HD11	1:E:157:TRP:HZ3	1.63	0.63
2:F:228:LYS:O	2:F:231:ALA:HB3	1.98	0.63
2:F:235:ARG:HD3	3:G:898:ILE:HB	1.79	0.63
2:F:309:TYR:CE1	2:F:313:LEU:HD21	2.34	0.63
3:C:1362:LEU:N	3:C:1362:LEU:HD13	2.14	0.63
3:C:364:LYS:HE3	3:C:632:ASP:CG	2.19	0.63
3:C:990:MET:HG2	3:C:994:MET:HE2	1.80	0.63
3:G:1135:ILE:HD12	3:G:1177:TYR:HE1	1.63	0.63
3:G:1247:ARG:O	3:G:1250:HIS:HB3	1.98	0.63
2:B:171:PRO:C	2:B:173:LEU:H	2.00	0.63
2:B:199:LYS:O	2:B:200:VAL:HG13	1.99	0.63
2:B:78:LEU:HD21	2:B:131:ARG:NH2	2.11	0.63
3:C:1068:TYR:CD2	3:C:1068:TYR:C	2.72	0.63
3:C:1250:HIS:HE1	3:C:1254:ASP:HB3	1.64	0.63
3:C:540:MET:CE	3:C:631:PRO:HG3	2.29	0.63
3:C:650:ARG:HH12	3:C:653:VAL:HG11	1.63	0.63
3:C:648:LEU:C	3:C:651:ILE:HG22	2.18	0.63
3:C:863:SER:OG	3:C:866:PRO:HG2	1.99	0.63
3:G:1135:ILE:HG21	3:G:1177:TYR:OH	1.99	0.63
3:G:1148:ASP:OD1	3:G:1151:SER:HB2	1.98	0.63
3:G:659:TRP:CD1	3:G:659:TRP:N	2.67	0.63
3:G:922:ARG:HH12	3:G:950:LYS:HD2	1.64	0.63
4:H:346:CYS:HB2	4:H:378:PHE:HB2	1.81	0.63
1:A:37:LYS:HG3	1:A:38:ASN:N	2.09	0.63
1:A:95:LYS:HZ2	3:C:881:ARG:H	1.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:479:THR:OG1	3:C:480:ASN:N	2.30	0.63
3:C:852:TYR:HB3	3:C:856:ILE:HD11	1.79	0.63
4:D:447:ARG:HA	4:D:447:ARG:NH1	2.13	0.63
2:F:104:PHE:HE1	2:F:107:ARG:NH2	1.97	0.63
2:F:209:VAL:HG12	2:F:210:PRO:CD	2.23	0.63
2:F:94:GLU:CB	2:F:95:PRO:HD3	2.28	0.63
3:G:1250:HIS:HE1	3:G:1254:ASP:HB3	1.62	0.63
3:G:364:LYS:NZ	3:G:538:VAL:HG23	2.13	0.63
4:H:540:ILE:HD12	4:H:540:ILE:H	1.63	0.63
1:A:141:ILE:HD12	1:A:303:PRO:HD3	1.80	0.63
1:A:9:LEU:HD11	1:A:325:PRO:HA	1.80	0.63
2:B:358:LYS:NZ	3:C:1274:ARG:HH22	1.96	0.63
4:D:447:ARG:HH11	4:D:447:ARG:HG2	1.63	0.63
1:E:144:ARG:HD3	1:E:218:ILE:CD1	2.29	0.63
1:E:383:TYR:CE1	1:E:392:VAL:HG11	2.33	0.63
2:F:258:THR:CG2	2:F:366:SER:HB2	2.28	0.63
4:H:199:PRO:O	4:H:200:GLU:C	2.37	0.63
3:C:1118:GLU:O	3:C:1119:ILE:C	2.36	0.63
3:C:1216:ILE:CD1	3:C:1216:ILE:H	2.12	0.63
4:D:469:PHE:HZ	4:D:574:LEU:HD22	1.64	0.63
1:E:137:MET:O	1:E:141:ILE:HG13	1.98	0.63
1:E:212:ILE:O	1:E:216:ILE:HG13	1.99	0.63
1:E:38:ASN:HD22	1:E:38:ASN:N	1.95	0.63
2:F:51:LYS:HE2	2:F:260:GLN:CB	2.29	0.63
2:F:49:ARG:HG3	2:F:106:LEU:HD12	1.81	0.63
3:G:1266:GLN:HG3	3:G:1267:LEU:N	2.13	0.63
3:G:763:PRO:O	3:G:766:LEU:N	2.31	0.63
4:H:198:CYS:SG	4:H:527:VAL:O	2.56	0.63
2:B:112:GLN:O	2:B:117:ARG:NH2	2.31	0.62
3:C:1337:PHE:CD2	3:C:1391:GLN:HG2	2.33	0.62
3:C:760:ASN:C	3:C:763:PRO:HD2	2.20	0.62
4:D:394:LEU:HD13	4:D:401:ILE:HD12	1.80	0.62
4:D:567:VAL:CG1	4:D:568:GLY:H	2.09	0.62
2:F:403:ILE:CG2	2:F:408:ILE:HG12	2.28	0.62
3:G:1426:VAL:HA	3:G:1429:ASP:OD2	1.98	0.62
3:G:591:ASP:O	3:G:591:ASP:OD1	2.17	0.62
3:G:652:ASN:HD22	3:G:670:MET:HE2	1.63	0.62
3:G:795:ALA:O	3:G:798:GLU:N	2.30	0.62
3:C:1084:TRP:HZ2	3:C:1352:THR:HA	1.63	0.62
3:C:587:SER:O	3:C:732:TYR:OH	2.12	0.62
4:D:202:LEU:CD2	4:D:457:SER:HB3	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:875:CYS:HB2	3:G:912:PRO:HD3	1.81	0.62
3:C:881:ARG:HH11	3:C:972:LEU:HD21	1.64	0.62
1:E:130:LYS:O	1:E:226:TYR:HE1	1.82	0.62
1:E:47:PHE:HE1	1:E:78:ILE:HG23	1.64	0.62
2:F:166:ILE:HD13	2:F:183:ILE:HD13	1.81	0.62
3:G:1095:VAL:CG1	3:G:1112:ILE:HD13	2.28	0.62
3:G:1225:GLU:HB3	3:G:1226:PRO:HD3	1.79	0.62
3:G:1236:ALA:HB1	3:G:1246:PHE:CD2	2.35	0.62
3:G:392:ARG:CZ	3:G:474:SER:HA	2.29	0.62
3:G:500:GLU:OE2	3:G:502:LYS:HE3	1.99	0.62
4:H:384:ALA:O	4:H:390:GLU:HG2	1.98	0.62
1:A:142:ILE:CD1	1:A:189:LEU:HB3	2.28	0.62
2:B:186:ILE:HG22	2:B:187:PRO:HD2	1.81	0.62
3:C:549:ASN:HB3	3:C:554:GLN:HG3	1.82	0.62
3:C:972:LEU:H	3:C:972:LEU:HD23	1.63	0.62
1:E:46:SER:HB3	1:E:316:LEU:HD13	1.82	0.62
3:G:1277:GLU:OE1	3:G:1337:PHE:HZ	1.82	0.62
3:G:799:ASN:O	3:G:801:TYR:HD1	1.83	0.62
4:H:509:TYR:HD1	4:H:520:ILE:HD11	1.63	0.62
1:A:145:ALA:HB2	1:A:211:PHE:HE2	1.65	0.62
2:B:49:ARG:HB3	2:B:106:LEU:HD12	1.80	0.62
2:B:136:PRO:O	2:B:138:ASP:N	2.33	0.62
3:C:345:TRP:CH2	3:C:775:ILE:HG13	2.31	0.62
4:D:445:LEU:CB	4:D:450:LYS:HZ3	2.11	0.62
2:F:311:LEU:O	2:F:313:LEU:N	2.32	0.62
3:G:1186:LEU:HD23	3:G:1187:THR:H	1.64	0.62
3:G:803:VAL:HB	3:G:804:PRO:HD2	1.81	0.62
1:A:167:CYS:SG	1:A:167:CYS:O	2.57	0.62
2:B:441:LEU:HD21	2:B:447:PHE:HD1	1.64	0.62
2:B:56:VAL:HG21	2:B:127:LEU:HD13	1.81	0.62
3:C:1235:ILE:H	3:C:1235:ILE:CD1	2.13	0.62
3:C:863:SER:C	3:C:866:PRO:HD2	2.18	0.62
3:C:876:PHE:HZ	3:C:960:LEU:CD2	2.12	0.62
2:F:393:LEU:O	2:F:397:LYS:HG3	1.98	0.62
3:G:1038:ILE:HG13	3:G:1039:ASP:N	2.14	0.62
3:G:1216:ILE:HD12	3:G:1216:ILE:N	2.14	0.62
3:G:1273:TYR:CE2	3:G:1394:PHE:HA	2.35	0.62
3:G:562:ALA:O	3:G:563:LEU:CD2	2.48	0.62
3:G:903:ASP:OD2	3:G:905:SER:HB3	2.00	0.62
3:G:940:LEU:HD23	3:G:940:LEU:O	1.98	0.62
1:A:234:LEU:HD21	1:A:243:ILE:CD1	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:276:ILE:HG23	2:B:284:PHE:HZ	1.63	0.62
3:C:439:TYR:CD2	3:C:440:ALA:N	2.68	0.62
3:C:631:PRO:N	3:C:688:ARG:HH12	1.97	0.62
3:C:932:GLN:CD	3:C:933:ASP:H	2.03	0.62
3:C:957:TYR:C	3:C:959:CYS:N	2.53	0.62
3:G:610:GLU:HG2	3:G:621:PHE:CE2	2.35	0.62
2:B:311:LEU:O	2:B:313:LEU:N	2.32	0.62
3:C:344:TYR:HB2	3:C:498:TRP:CD2	2.35	0.62
3:C:795:ALA:O	3:C:798:GLU:N	2.33	0.62
2:F:37:ILE:O	3:G:1449:VAL:HG23	2.00	0.62
3:G:1111:ASN:O	3:G:1114:LYS:HB3	1.99	0.62
3:G:1314:ASP:O	3:G:1316:LYS:HD2	1.99	0.62
3:G:1405:LEU:C	3:G:1407:LYS:N	2.53	0.62
3:G:498:TRP:O	3:G:528:VAL:HG13	1.99	0.62
2:B:368:LEU:CD2	2:B:372:LEU:HD12	2.29	0.62
3:C:1068:TYR:HD2	3:C:1068:TYR:C	2.02	0.62
3:C:1148:ASP:OD1	3:C:1151:SER:HB2	1.99	0.62
3:C:1206:ILE:HD13	3:C:1207:ASP:H	1.65	0.62
3:C:346:LEU:HB3	3:C:689:MET:CE	2.29	0.62
4:D:480:LEU:HD13	4:D:511:LEU:HB2	1.82	0.62
4:H:474:THR:HG21	4:H:518:MET:HE3	1.80	0.62
1:A:210:PRO:HG2	2:B:201:TYR:CE2	2.35	0.62
2:B:258:THR:HG1	2:B:261:ASP:H	1.48	0.62
3:C:1135:ILE:HG21	3:C:1177:TYR:OH	2.00	0.62
3:C:1277:GLU:OE1	3:C:1337:PHE:HZ	1.82	0.62
3:C:659:TRP:CH2	3:C:667:ARG:HD3	2.35	0.62
3:C:763:PRO:O	3:C:766:LEU:N	2.32	0.62
1:E:37:LYS:CG	1:E:38:ASN:H	2.09	0.62
2:F:202:LEU:HA	2:F:206:PHE:O	2.00	0.62
2:F:371:ILE:HD13	2:F:384:CYS:HB3	1.81	0.62
2:F:453:ARG:O	2:F:455:LEU:HD12	2.00	0.62
3:G:1186:LEU:HD13	3:G:1190:GLN:CB	2.29	0.62
3:G:723:ILE:HD12	3:G:741:LEU:HD12	1.81	0.62
4:H:253:LEU:CD2	4:H:253:LEU:N	2.63	0.62
1:A:51:ASP:O	1:A:52:ASP:HB3	2.00	0.61
2:B:243:ASP:OD1	2:B:246:LEU:HG	2.00	0.61
3:C:645:GLU:O	3:C:646:VAL:C	2.37	0.61
1:E:119:ARG:HH11	1:E:119:ARG:HG3	1.65	0.61
2:F:176:LEU:O	2:F:176:LEU:HD23	2.00	0.61
3:G:557:ILE:CG1	3:G:650:ARG:HG3	2.30	0.61
4:H:400:ASP:O	4:H:401:ILE:C	2.38	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:LYS:HE3	1:A:256:GLN:OE1	1.99	0.61
2:B:104:PHE:CE1	2:B:107:ARG:CZ	2.82	0.61
3:C:683:ASN:ND2	3:C:683:ASN:N	2.46	0.61
3:C:746:TRP:O	3:C:748:ASP:N	2.33	0.61
2:F:47:ILE:O	2:F:51:LYS:HG3	2.00	0.61
3:G:496:PRO:O	3:G:497:CYS:HB3	1.99	0.61
4:H:315:VAL:O	4:H:315:VAL:HG23	1.99	0.61
1:A:223:PHE:CE1	1:A:297:MET:HG2	2.35	0.61
2:B:285:PRO:HA	2:B:447:PHE:CZ	2.36	0.61
2:B:29:TYR:CD1	2:B:103:HIS:CG	2.88	0.61
2:B:76:SER:HA	2:B:79:ARG:HE	1.65	0.61
3:C:1251:TYR:CD1	3:C:1253:LYS:HB3	2.36	0.61
3:C:634:ILE:HD12	3:C:690:ILE:HD12	1.82	0.61
4:D:200:GLU:O	4:D:202:LEU:N	2.33	0.61
4:D:407:ARG:O	4:D:409:ILE:N	2.33	0.61
4:D:407:ARG:O	4:D:408:THR:C	2.39	0.61
4:D:540:ILE:HD12	4:D:557:VAL:O	2.00	0.61
2:F:137:LYS:CD	2:F:181:GLU:HA	2.30	0.61
2:F:237:LEU:N	2:F:238:PRO:CD	2.64	0.61
2:F:362:TYR:O	2:F:364:PRO:CD	2.44	0.61
3:G:1154:HIS:CG	3:G:1155:VAL:N	2.68	0.61
3:G:1157:VAL:HG12	3:G:1161:ILE:HD11	1.81	0.61
3:G:1441:LEU:CD2	3:G:1441:LEU:N	2.61	0.61
1:A:219:ILE:HD13	1:A:301:CYS:HB2	1.81	0.61
3:C:1141:LYS:NZ	3:C:1146:TYR:HA	2.15	0.61
3:C:477:PHE:HD1	3:C:802:ILE:HG21	1.64	0.61
4:D:355:ILE:O	4:D:357:TYR:CD1	2.54	0.61
1:E:121:CYS:SG	1:E:131:CYS:HB3	2.41	0.61
1:E:227:ALA:O	1:E:233:ILE:HG12	2.00	0.61
3:G:621:PHE:O	3:G:625:LYS:HG2	2.01	0.61
4:H:400:ASP:HA	4:H:403:LYS:HG3	1.82	0.61
1:A:223:PHE:CZ	1:A:297:MET:HG2	2.34	0.61
1:A:259:PHE:CD2	1:A:259:PHE:N	2.67	0.61
1:A:390:PRO:HG2	1:A:391:TYR:CD1	2.36	0.61
2:B:428:PHE:CD2	2:B:437:CYS:HB2	2.35	0.61
3:C:1151:SER:HA	3:C:1189:SER:CB	2.29	0.61
2:F:137:LYS:HD3	2:F:181:GLU:HA	1.82	0.61
3:G:1114:LYS:O	3:G:1117:ILE:HB	1.99	0.61
3:G:351:ASP:CG	3:G:354:ASN:HB2	2.20	0.61
3:G:360:PHE:HD1	3:G:665:LEU:HD11	1.66	0.61
3:G:636:GLY:HA2	3:G:752:ILE:HD13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:TYR:O	2:B:364:PRO:CD	2.43	0.61
2:B:418:THR:O	2:B:420:TYR:CD2	2.53	0.61
3:C:1342:TYR:HB3	4:D:519:ALA:HB1	1.80	0.61
3:C:579:PHE:CD1	3:C:579:PHE:N	2.68	0.61
4:D:171:VAL:HB	4:D:546:TYR:CE2	2.35	0.61
1:E:174:VAL:HA	1:E:177:LEU:HG	1.83	0.61
3:G:1350:GLU:OE2	3:G:1351:PRO:HD2	1.99	0.61
2:F:387:ARG:HH12	3:G:995:ASN:CB	2.12	0.61
4:H:200:GLU:O	4:H:202:LEU:N	2.34	0.61
2:B:439:PHE:CE1	2:B:441:LEU:HD13	2.26	0.61
2:B:367:CYS:SG	2:B:443:HIS:CA	2.88	0.61
3:C:1009:ASN:HD21	3:C:1011:ASN:ND2	1.99	0.61
3:C:1370:LEU:HD21	3:C:1375:MET:SD	2.40	0.61
3:C:1401:ALA:HB2	3:C:1430:TYR:CD1	2.32	0.61
3:C:413:VAL:HG13	3:C:472:THR:OG1	2.01	0.61
3:C:762:LEU:O	3:C:765:ALA:HB3	2.00	0.61
4:D:256:GLN:C	4:D:272:LEU:HD12	2.20	0.61
1:E:68:LYS:NZ	1:E:72:LYS:HD3	2.15	0.61
2:F:363:THR:O	2:F:364:PRO:C	2.39	0.61
3:G:1147:PRO:O	3:G:1149:LYS:N	2.34	0.61
3:G:1342:TYR:HB3	4:H:519:ALA:HB1	1.82	0.61
3:G:346:LEU:HB3	3:G:689:MET:CE	2.31	0.61
3:G:438:ASN:OD1	3:G:449:LYS:HE2	2.00	0.61
3:G:865:TYR:CD2	3:G:865:TYR:N	2.64	0.61
3:G:1148:ASP:OD2	4:H:262:ASN:HB2	2.00	0.61
1:A:350:ILE:HA	1:A:353:ILE:HG12	1.82	0.61
2:B:209:VAL:HG12	2:B:210:PRO:CD	2.17	0.61
2:B:418:THR:HG1	2:B:420:TYR:HE2	1.49	0.61
3:C:1135:ILE:HB	3:C:1177:TYR:CZ	2.35	0.61
3:C:1334:ILE:O	3:C:1338:ILE:HG13	2.01	0.61
3:C:497:CYS:SG	3:C:499:LEU:CD2	2.89	0.61
3:C:631:PRO:CD	3:C:688:ARG:HH12	2.13	0.61
4:D:227:LEU:CD2	4:D:301:VAL:HB	2.30	0.61
4:D:256:GLN:O	4:D:256:GLN:HG3	1.99	0.61
4:D:430:HIS:NE2	4:D:440:PHE:CE1	2.68	0.61
4:D:525:PHE:HD1	4:D:529:ALA:HB3	1.64	0.61
1:E:56:ARG:HG2	1:E:57:TYR:CD2	2.36	0.61
3:G:1338:ILE:HG23	4:H:209:MET:HE2	1.81	0.61
3:G:957:TYR:C	3:G:959:CYS:H	2.03	0.61
1:A:94:VAL:HG12	1:A:95:LYS:H	1.65	0.61
3:C:498:TRP:O	3:C:499:LEU:HD23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:147:LYS:HG3	1:E:148:GLU:N	2.16	0.61
2:F:286:PRO:CB	2:F:385:PRO:HG3	2.29	0.61
3:G:1050:LEU:HD22	3:G:1226:PRO:HG2	1.83	0.61
3:G:381:LYS:HD3	3:G:519:MET:CE	2.31	0.61
3:G:387:LEU:HD21	3:G:479:THR:CA	2.31	0.61
3:G:852:TYR:CE1	3:G:999:ILE:HG21	2.36	0.61
2:B:94:GLU:HB3	2:B:95:PRO:HD3	1.82	0.61
3:C:1147:PRO:O	3:C:1149:LYS:N	2.34	0.61
3:C:1250:HIS:CE1	3:C:1254:ASP:HB3	2.35	0.61
3:C:1334:ILE:HG23	3:C:1392:LEU:HD21	1.83	0.61
3:C:635:VAL:HG21	3:C:756:MET:HE2	1.83	0.61
3:C:774:ASN:ND2	3:C:775:ILE:H	1.98	0.61
4:D:328:TYR:O	4:D:330:PRO:HD3	2.00	0.61
2:F:136:PRO:O	2:F:138:ASP:N	2.34	0.61
3:G:602:ILE:HD13	3:G:609:VAL:CG1	2.28	0.61
3:G:922:ARG:HH12	3:G:950:LYS:CE	2.13	0.61
1:A:384:LYS:HA	1:A:389:ALA:HB2	1.82	0.60
3:C:365:VAL:HG22	3:C:376:CYS:CB	2.28	0.60
4:D:170:VAL:HG21	4:D:594:GLN:NE2	2.16	0.60
4:D:232:LYS:HD2	4:D:240:PHE:CE2	2.36	0.60
4:D:332:GLU:HA	4:D:332:GLU:OE2	2.00	0.60
2:F:139:LYS:HA	2:F:142:ASP:OD2	2.01	0.60
3:G:1384:SER:HB3	3:G:1387:SER:OG	2.01	0.60
3:G:1395:TYR:O	3:G:1398:ILE:CG1	2.49	0.60
3:G:395:LYS:CA	3:G:408:ILE:HD11	2.31	0.60
3:G:721:VAL:CG1	3:G:722:VAL:N	2.64	0.60
3:G:762:LEU:O	3:G:765:ALA:HB3	2.02	0.60
3:G:856:ILE:N	3:G:856:ILE:HD12	2.16	0.60
4:H:254:LEU:HD12	4:H:255:GLY:N	2.16	0.60
4:H:354:SER:O	4:H:386:HIS:HE1	1.84	0.60
1:A:121:CYS:SG	1:A:131:CYS:HB3	2.40	0.60
1:A:233:ILE:O	1:A:234:LEU:HD23	2.01	0.60
3:C:1014:ASN:HD21	3:C:1016:GLU:HB2	1.66	0.60
3:C:642:PHE:O	3:C:646:VAL:HG23	2.01	0.60
4:D:174:PHE:CD1	4:D:175:GLY:N	2.68	0.60
3:C:1335:ARG:HH21	4:D:433:PRO:HD3	1.65	0.60
1:E:338:LYS:HG3	1:E:338:LYS:O	2.02	0.60
3:G:1185:ASN:O	3:G:1185:ASN:ND2	2.26	0.60
3:G:389:PHE:CD2	3:G:476:VAL:HB	2.36	0.60
3:G:720:ARG:NH2	3:G:748:ASP:OD2	2.28	0.60
3:G:956:MET:HA	3:G:956:MET:HE3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:ASP:HA	1:A:244:LEU:HD12	1.83	0.60
2:B:160:THR:HA	2:B:163:GLU:HB2	1.82	0.60
2:B:186:ILE:HG22	2:B:187:PRO:CD	2.31	0.60
3:C:1416:LYS:O	3:C:1420:GLN:HB2	2.01	0.60
3:C:1427:LEU:CB	3:C:1431:ARG:HH22	2.12	0.60
3:C:565:HIS:HA	3:C:580:GLN:OE1	2.00	0.60
1:E:37:LYS:HG3	1:E:38:ASN:N	2.15	0.60
2:F:118:ARG:CB	2:F:118:ARG:CZ	2.79	0.60
2:F:311:LEU:O	2:F:314:LYS:N	2.33	0.60
3:G:1135:ILE:HG22	3:G:1136:ASN:N	2.17	0.60
4:H:182:TRP:HB3	4:H:341:MET:CE	2.31	0.60
4:H:535:PRO:HG3	4:H:538:LEU:HD22	1.81	0.60
1:A:104:LYS:HE2	1:A:315:HIS:N	2.16	0.60
2:B:259:GLY:O	2:B:260:GLN:HB2	2.02	0.60
2:B:26:LEU:HD22	2:B:128:LEU:HD12	1.82	0.60
2:B:311:LEU:O	2:B:314:LYS:N	2.33	0.60
2:B:422:VAL:CA	2:B:425:GLN:HG3	2.31	0.60
3:C:533:SER:HB2	3:C:534:PRO:HD2	1.82	0.60
3:C:586:VAL:HG11	3:C:742:LEU:HD13	1.83	0.60
4:D:406:LEU:O	4:D:410:ILE:HG13	2.01	0.60
4:D:479:HIS:CE1	4:D:509:TYR:HH	2.17	0.60
1:E:237:LYS:HA	1:E:240:TRP:CE2	2.35	0.60
2:F:49:ARG:CB	2:F:102:SER:HB2	2.28	0.60
2:F:105:ILE:CG2	2:F:106:LEU:N	2.64	0.60
3:G:1222:ARG:HH11	3:G:1222:ARG:HG3	1.67	0.60
3:G:522:LYS:H	3:G:525:LEU:HD12	1.66	0.60
4:H:231:LEU:HB3	4:H:303:ILE:HD11	1.83	0.60
4:H:211:GLN:OE1	4:H:521:ASP:HA	2.01	0.60
1:A:247:VAL:HG11	1:A:251:ILE:HG21	1.83	0.60
3:C:1222:ARG:HH11	3:C:1222:ARG:HB2	1.67	0.60
3:C:507:LEU:HD21	3:C:517:GLU:HB3	1.84	0.60
3:C:623:LEU:HD11	3:C:651:ILE:HD11	1.82	0.60
3:C:659:TRP:CZ2	3:C:667:ARG:HB2	2.37	0.60
3:C:1364:PHE:HB2	4:D:217:ARG:CZ	2.31	0.60
4:D:360:LEU:O	4:D:364:ILE:HG13	2.02	0.60
2:F:433:ASN:O	2:F:434:VAL:HG12	2.01	0.60
3:G:1235:ILE:HA	3:G:1238:TRP:HE3	1.65	0.60
3:G:1322:PHE:HB3	3:G:1325:GLN:NE2	2.16	0.60
3:G:634:ILE:HD12	3:G:690:ILE:CD1	2.31	0.60
2:B:120:PHE:HD2	2:B:230:LEU:HD11	1.65	0.60
2:B:358:LYS:CE	3:C:1274:ARG:NH2	2.61	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:TYR:C	2:B:362:TYR:CD2	2.73	0.60
2:B:417:GLY:O	2:B:418:THR:HG22	2.01	0.60
3:C:1050:LEU:O	3:C:1051:LYS:HG2	2.02	0.60
3:C:1434:LYS:O	3:C:1438:GLU:HG3	2.00	0.60
1:E:379:ARG:NH1	1:E:379:ARG:HG3	2.16	0.60
2:F:341:PHE:CD1	2:F:345:TYR:HB2	2.36	0.60
3:G:861:PHE:HD2	3:G:1038:ILE:HA	1.67	0.60
3:G:1147:PRO:C	3:G:1149:LYS:H	2.05	0.60
1:A:113:THR:HG23	1:A:163:ARG:HE	1.67	0.60
2:B:371:ILE:HG22	2:B:372:LEU:CD2	2.32	0.60
3:C:610:GLU:HG2	3:C:621:PHE:CE2	2.37	0.60
3:C:869:ILE:HG22	3:C:869:ILE:O	2.01	0.60
3:C:555:ASN:ND2	4:D:248:GLN:NE2	2.49	0.60
2:F:154:ILE:HD11	2:F:183:ILE:HG22	1.82	0.60
3:G:1081:ARG:HG2	3:G:1081:ARG:NH1	2.09	0.60
3:G:806:LYS:CE	3:G:807:GLN:H	2.15	0.60
4:H:394:LEU:HD22	4:H:401:ILE:CD1	2.32	0.60
1:A:209:HIS:ND1	1:A:210:PRO:N	2.50	0.60
1:A:405:SER:HB3	1:A:409:GLU:OE1	2.00	0.60
2:B:108:LEU:O	2:B:111:CYS:SG	2.52	0.60
2:B:159:LYS:HE3	2:B:178:LEU:CD2	2.31	0.60
3:C:698:LYS:NZ	3:C:706:TYR:HB2	2.16	0.60
3:C:759:LEU:HB2	3:C:761:VAL:HG22	1.83	0.60
1:E:209:HIS:CG	1:E:210:PRO:HD2	2.37	0.60
2:F:346:SER:OG	2:F:350:ARG:NH1	2.34	0.60
2:F:428:PHE:CE1	2:F:432:HIS:CE1	2.90	0.60
2:F:73:LYS:HA	2:F:76:SER:HB2	1.83	0.60
3:G:1131:SER:C	3:G:1133:PHE:H	2.04	0.60
3:G:848:LYS:CD	3:G:999:ILE:HA	2.29	0.60
4:H:174:PHE:CD1	4:H:174:PHE:C	2.74	0.60
4:H:358:ASP:CB	4:H:359:PRO:HD3	2.30	0.60
3:C:1143:PRO:HB2	3:C:1159:LEU:HD23	1.83	0.60
3:C:345:TRP:O	3:C:346:LEU:HG	2.00	0.60
3:C:491:ARG:NH1	3:C:524:ASP:HA	2.17	0.60
3:C:557:ILE:HG13	3:C:650:ARG:HG3	1.84	0.60
3:C:977:THR:HB	3:C:981:ARG:NH1	2.16	0.60
3:G:1133:PHE:HB3	3:G:1211:TYR:CZ	2.37	0.60
3:G:1279:PHE:CE1	3:G:1329:LYS:HG3	2.37	0.60
3:G:531:ASP:O	3:G:532:VAL:HG23	2.02	0.60
3:G:940:LEU:C	3:G:940:LEU:HD23	2.22	0.60
4:H:343:LEU:HD12	4:H:572:ALA:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:532:PRO:CG	4:H:533:VAL:H	2.15	0.60
1:A:294:TRP:HA	1:A:297:MET:SD	2.42	0.60
1:A:396:GLU:O	1:A:400:GLU:HG3	2.02	0.60
1:A:94:VAL:HG12	1:A:95:LYS:N	2.17	0.60
3:C:1141:LYS:HZ2	3:C:1146:TYR:HA	1.67	0.60
3:C:360:PHE:CE2	3:C:379:MET:HG3	2.36	0.60
3:C:957:TYR:C	3:C:959:CYS:H	2.04	0.60
4:D:199:PRO:O	4:D:200:GLU:C	2.39	0.60
4:D:367:ILE:O	4:D:372:PRO:HD2	2.01	0.60
2:F:358:LYS:HE3	2:F:359:ARG:NE	2.16	0.60
3:G:746:TRP:O	3:G:748:ASP:N	2.35	0.60
1:A:153:LYS:HA	1:A:153:LYS:HE2	1.84	0.59
2:B:237:LEU:N	2:B:238:PRO:CD	2.65	0.59
2:B:280:SER:HA	2:B:284:PHE:CE1	2.36	0.59
2:B:342:ASP:HA	2:B:346:SER:CB	2.31	0.59
3:C:354:ASN:N	3:C:354:ASN:ND2	2.50	0.59
3:C:720:ARG:NH1	3:C:722:VAL:HG13	2.17	0.59
3:C:865:TYR:HD2	3:C:865:TYR:N	1.97	0.59
2:F:138:ASP:N	2:F:138:ASP:OD2	2.34	0.59
2:F:253:LEU:O	2:F:254:SER:CB	2.50	0.59
2:F:426:LYS:HD2	2:F:429:GLU:OE1	2.02	0.59
3:G:1307:LEU:HD13	3:G:1430:TYR:OH	2.02	0.59
3:G:437:LYS:NZ	3:G:800:ASN:ND2	2.50	0.59
4:H:294:TYR:O	4:H:294:TYR:CD1	2.53	0.59
1:A:108:PHE:CD1	1:A:167:CYS:SG	2.95	0.59
1:A:38:ASN:HA	1:A:41:GLN:OE1	2.02	0.59
2:B:121:ILE:CG1	2:B:226:LEU:HD23	2.31	0.59
2:B:437:CYS:SG	2:B:438:GLY:N	2.75	0.59
3:C:1154:HIS:CG	3:C:1155:VAL:N	2.70	0.59
3:C:1405:LEU:C	3:C:1407:LYS:N	2.54	0.59
3:C:632:ASP:CG	3:C:664:ARG:HH22	2.05	0.59
3:C:788:ASN:O	3:C:791:LEU:HB3	2.02	0.59
3:C:861:PHE:CE1	3:C:1036:LEU:HD21	2.36	0.59
4:D:198:CYS:HB3	4:D:199:PRO:CD	2.32	0.59
2:F:170:SER:HB3	2:F:171:PRO:CD	2.30	0.59
3:G:1284:PRO:HG2	3:G:1325:GLN:NE2	2.17	0.59
3:G:539:VAL:CG2	3:G:568:PHE:HD2	2.01	0.59
4:H:166:ASN:ND2	4:H:166:ASN:N	2.50	0.59
3:C:1030:ASN:OD1	3:C:1037:GLU:HA	2.01	0.59
4:D:355:ILE:O	4:D:357:TYR:HD1	1.85	0.59
4:D:400:ASP:OD1	4:D:400:ASP:N	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:400:ASP:O	4:D:401:ILE:C	2.40	0.59
2:F:358:LYS:CG	2:F:359:ARG:H	2.15	0.59
3:G:544:MET:HE1	3:G:647:LEU:HD13	1.84	0.59
1:A:200:LYS:HA	1:A:246:LEU:HD22	1.84	0.59
2:B:359:ARG:HH11	2:B:359:ARG:HG3	1.66	0.59
3:C:1149:LYS:CG	3:C:1150:LYS:H	2.13	0.59
3:C:1330:LEU:HD11	3:C:1399:PHE:HE2	1.67	0.59
3:C:1441:LEU:H	3:C:1441:LEU:HD23	1.66	0.59
3:C:564:VAL:HG12	3:C:565:HIS:H	1.67	0.59
3:C:598:PHE:HD1	3:C:735:SER:HG	1.50	0.59
3:C:862:ASN:ND2	3:C:1039:ASP:HB2	2.18	0.59
3:C:953:ALA:O	3:C:956:MET:HG2	2.02	0.59
3:C:978:TYR:O	3:C:979:LYS:C	2.41	0.59
4:D:246:PRO:HG3	4:D:311:GLY:HA3	1.84	0.59
1:E:355:ARG:HH11	1:E:355:ARG:HB2	1.67	0.59
2:F:135:LEU:HB2	2:F:140:ILE:HG13	1.83	0.59
2:F:287:CYS:HB2	2:F:288:MET:HE2	1.84	0.59
2:F:309:TYR:CE2	2:F:313:LEU:HD11	2.37	0.59
3:G:398:LEU:HD23	3:G:398:LEU:O	2.01	0.59
3:G:960:LEU:HD23	3:G:967:PHE:O	2.03	0.59
1:A:156:LEU:HB2	1:A:398:PHE:CZ	2.38	0.59
2:B:103:HIS:CD2	2:B:104:PHE:HD1	2.19	0.59
3:C:364:LYS:NZ	3:C:537:LEU:CD2	2.64	0.59
3:C:720:ARG:HH12	3:C:722:VAL:HG13	1.67	0.59
3:C:756:MET:O	3:C:761:VAL:HG23	2.03	0.59
4:D:446:SER:O	4:D:450:LYS:CG	2.50	0.59
2:F:45:LEU:HD12	2:F:101:ILE:CG2	2.32	0.59
3:G:562:ALA:C	3:G:563:LEU:HD23	2.23	0.59
3:G:579:PHE:CD1	3:G:579:PHE:N	2.68	0.59
3:G:722:VAL:HG12	3:G:723:ILE:N	2.17	0.59
4:H:198:CYS:HB2	4:H:199:PRO:HD2	1.85	0.59
4:H:210:PHE:O	4:H:210:PHE:HD1	1.85	0.59
4:H:270:VAL:HG12	4:H:271:ILE:N	2.18	0.59
2:B:49:ARG:HD2	2:B:49:ARG:O	2.02	0.59
3:C:1131:SER:C	3:C:1133:PHE:H	2.05	0.59
3:C:1181:GLN:O	3:C:1204:LEU:HD22	2.03	0.59
3:C:599:LYS:O	3:C:602:ILE:HB	2.02	0.59
3:C:935:ASN:HD22	3:C:937:ASP:N	1.94	0.59
2:F:438:GLY:O	2:F:439:PHE:HB3	2.02	0.59
3:G:1388:LEU:O	3:G:1391:GLN:N	2.35	0.59
3:G:1394:PHE:O	3:G:1398:ILE:HG12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:756:MET:O	3:G:761:VAL:HG23	2.02	0.59
4:H:342:VAL:HG13	4:H:343:LEU:O	2.02	0.59
1:A:44:GLU:HB2	1:A:84:TYR:HE2	1.67	0.59
2:B:258:THR:CG2	2:B:261:ASP:HB2	2.31	0.59
2:B:295:LEU:HG	2:B:330:GLU:HG2	1.84	0.59
3:C:1221:ALA:O	3:C:1223:ILE:N	2.35	0.59
2:B:355:LYS:HG2	3:C:1247:ARG:CZ	2.33	0.59
3:C:439:TYR:CD2	3:C:439:TYR:C	2.75	0.59
3:C:582:HIS:C	3:C:582:HIS:ND1	2.56	0.59
1:E:221:LYS:HB3	1:E:222:TYR:CE1	2.38	0.59
2:F:421:GLN:O	2:F:424:CYS:HB3	2.03	0.59
3:G:604:LYS:HD3	3:G:604:LYS:O	2.03	0.59
3:G:911:LEU:O	3:G:911:LEU:HD12	2.02	0.59
3:G:978:TYR:O	3:G:979:LYS:C	2.40	0.59
1:A:235:GLU:HG3	1:A:236:ASN:ND2	2.18	0.59
1:A:306:ASP:OD2	1:A:309:VAL:HG23	2.03	0.59
2:B:45:LEU:HD13	2:B:101:ILE:CG2	2.33	0.59
3:C:1139:LEU:CD1	3:C:1154:HIS:HD2	2.16	0.59
3:C:689:MET:C	3:C:690:ILE:HD13	2.23	0.59
3:C:751:PHE:HD1	3:C:751:PHE:N	2.00	0.59
3:C:864:LEU:C	3:C:866:PRO:HD2	2.22	0.59
3:C:981:ARG:HH11	3:C:981:ARG:HG3	1.68	0.59
4:D:202:LEU:CD2	4:D:439:PRO:HD3	2.32	0.59
1:E:47:PHE:HB3	1:E:49:LEU:HD21	1.84	0.59
2:F:173:LEU:HD23	2:F:173:LEU:O	2.03	0.59
3:G:1050:LEU:HD13	3:G:1226:PRO:HG2	1.85	0.59
3:G:1345:TRP:CE3	3:G:1358:ARG:HG3	2.38	0.59
3:G:1334:ILE:HG21	3:G:1440:PHE:CD1	2.37	0.59
3:G:598:PHE:CZ	3:G:738:LEU:HB3	2.38	0.59
3:G:682:ARG:HD3	3:G:682:ARG:C	2.23	0.59
4:H:334:ASP:HA	4:H:337:PHE:CE2	2.37	0.59
4:H:356:THR:OG1	4:H:358:ASP:OD2	2.20	0.59
4:H:382:LEU:HD11	4:H:389:VAL:CG2	2.28	0.59
2:B:363:THR:O	2:B:364:PRO:C	2.40	0.59
3:C:858:LEU:HD22	3:C:1007:MET:HE2	1.84	0.59
3:C:1116:LEU:HD21	3:C:1220:VAL:HG11	1.84	0.59
3:C:340:VAL:HG21	3:C:500:GLU:HG3	1.85	0.59
3:C:623:LEU:HD11	3:C:651:ILE:CD1	2.33	0.59
4:D:407:ARG:HG3	4:D:407:ARG:HH11	1.67	0.59
1:E:144:ARG:NH1	1:E:211:PHE:CD2	2.71	0.59
2:F:49:ARG:NH1	2:F:103:HIS:CB	2.57	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1082:ARG:HG2	3:G:1082:ARG:O	2.02	0.59
3:G:1151:SER:HA	3:G:1189:SER:CB	2.33	0.59
3:G:957:TYR:O	3:G:960:LEU:N	2.31	0.59
3:G:957:TYR:C	3:G:959:CYS:N	2.53	0.59
4:H:171:VAL:O	4:H:172:THR:OG1	2.21	0.59
1:A:208:ILE:HD12	1:A:212:ILE:HG21	1.84	0.59
1:A:161:GLY:HA3	1:A:324:HIS:HD2	1.68	0.59
2:B:87:GLU:HG3	2:B:93:TYR:CE1	2.36	0.59
3:C:1139:LEU:CD1	3:C:1139:LEU:N	2.65	0.59
3:C:541:ALA:HB2	3:C:753:LEU:HD13	1.84	0.59
2:F:26:LEU:HB3	2:F:143:PHE:CE2	2.38	0.59
3:G:1284:PRO:HG2	3:G:1325:GLN:HE21	1.68	0.59
3:G:788:ASN:O	3:G:791:LEU:HB3	2.02	0.59
3:G:864:LEU:HD23	3:G:1004:ASP:CB	2.23	0.59
3:G:946:GLN:HE21	3:G:947:LYS:H	1.50	0.59
3:G:876:PHE:HZ	3:G:960:LEU:HD21	1.66	0.59
3:G:984:LEU:HD12	3:G:984:LEU:O	2.01	0.59
4:H:407:ARG:O	4:H:408:THR:C	2.40	0.59
4:H:435:TYR:HD2	4:H:518:MET:HE3	1.67	0.59
1:A:154:HIS:HB3	1:A:402:LEU:HD11	1.85	0.58
1:A:37:LYS:CG	1:A:38:ASN:H	2.08	0.58
2:B:316:ILE:N	2:B:445:ASN:HD21	2.00	0.58
2:B:325:GLN:OE1	2:B:325:GLN:HA	2.02	0.58
2:B:289:ARG:HD3	2:B:401:TYR:CE2	2.38	0.58
3:C:1019:PHE:C	3:C:1021:LEU:N	2.55	0.58
3:C:439:TYR:CE2	3:C:441:PHE:N	2.64	0.58
4:D:540:ILE:O	4:D:558:ASN:OD1	2.21	0.58
2:F:135:LEU:HB2	2:F:140:ILE:CG1	2.33	0.58
2:F:359:ARG:HH11	2:F:359:ARG:HG3	1.67	0.58
3:G:703:CYS:HA	3:G:704:LYS:HE2	1.85	0.58
3:G:868:ILE:HD13	3:G:872:PHE:HE2	1.67	0.58
4:H:164:ARG:HG2	4:H:164:ARG:NH1	2.14	0.58
4:H:476:LEU:CD1	4:H:509:TYR:HD2	2.16	0.58
1:A:43:ARG:NH1	1:A:81:GLY:O	2.36	0.58
2:B:368:LEU:HD21	2:B:372:LEU:CD1	2.34	0.58
3:C:1294:ASN:N	3:C:1398:ILE:HG22	2.18	0.58
3:C:545:LYS:HE3	3:C:723:ILE:HD13	1.83	0.58
3:C:388:TYR:CD1	3:C:802:ILE:HD12	2.37	0.58
4:D:383:ASP:OD1	4:D:385:LYS:HB2	2.03	0.58
4:D:467:VAL:O	4:D:467:VAL:HG12	2.02	0.58
1:E:403:ASP:HA	1:E:406:ARG:NH1	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:276:ILE:HA	2:F:279:LEU:CD1	2.33	0.58
2:F:376:PRO:HB3	2:F:382:HIS:CD2	2.37	0.58
2:F:55:SER:HA	2:F:58:ASN:HD22	1.68	0.58
3:G:558:ILE:O	3:G:559:ALA:CB	2.51	0.58
2:B:308:GLN:HA	2:B:365:PHE:CD2	2.38	0.58
3:C:1170:LYS:HG3	3:C:1171:ALA:N	2.17	0.58
3:C:1177:TYR:C	3:C:1177:TYR:CD1	2.77	0.58
3:C:751:PHE:CD1	3:C:751:PHE:N	2.70	0.58
4:D:509:TYR:HE1	4:D:514:PRO:HB3	1.69	0.58
1:E:68:LYS:O	1:E:72:LYS:HB2	2.02	0.58
2:F:246:LEU:O	2:F:250:LEU:HG	2.03	0.58
2:F:342:ASP:HA	2:F:346:SER:CB	2.33	0.58
3:G:857:LEU:HD21	3:G:859:LEU:HD21	1.85	0.58
3:G:869:ILE:HG21	3:G:911:LEU:HD21	1.84	0.58
4:H:382:LEU:CD1	4:H:389:VAL:HG21	2.29	0.58
1:A:87:ARG:HB3	1:A:89:ASN:HD21	1.68	0.58
3:C:1342:TYR:HB3	4:D:519:ALA:CB	2.34	0.58
3:C:653:VAL:HG12	3:C:654:CYS:SG	2.43	0.58
3:C:753:LEU:HD12	3:C:756:MET:CE	2.33	0.58
3:C:843:LEU:HD11	3:C:845:LEU:HD21	1.83	0.58
1:E:213:ARG:HH11	1:E:213:ARG:HG2	1.68	0.58
1:E:40:PHE:HB3	1:E:41:GLN:NE2	2.18	0.58
2:F:249:LEU:N	2:F:249:LEU:HD23	2.17	0.58
2:F:52:LEU:HB2	2:F:81:LEU:HD12	1.85	0.58
3:G:1015:LEU:O	3:G:1015:LEU:HD12	2.04	0.58
3:G:1281:CYS:O	3:G:1290:ASN:HB2	2.04	0.58
3:G:563:LEU:HD21	3:G:746:TRP:HE1	1.69	0.58
3:G:874:ILE:CD1	3:G:976:VAL:HG22	2.33	0.58
4:H:593:VAL:HG12	4:H:594:GLN:N	2.18	0.58
1:A:161:GLY:HA3	1:A:324:HIS:CD2	2.38	0.58
1:A:234:LEU:CD2	1:A:240:TRP:HA	2.34	0.58
3:C:543:SER:CB	3:C:749:ALA:HB2	2.34	0.58
3:C:876:PHE:CZ	3:C:960:LEU:CD2	2.87	0.58
1:E:9:LEU:CD2	1:E:13:LEU:HG	2.32	0.58
1:E:195:GLY:O	1:E:197:ASP:N	2.36	0.58
1:E:237:LYS:HE3	1:E:241:ASP:OD1	2.03	0.58
1:E:402:LEU:N	1:E:402:LEU:CD1	2.66	0.58
2:F:93:TYR:HD2	2:F:96:ARG:HB2	1.68	0.58
3:G:395:LYS:CB	3:G:408:ILE:HD11	2.34	0.58
3:G:652:ASN:HD22	3:G:670:MET:CE	2.15	0.58
3:G:786:GLU:O	3:G:789:GLU:HB3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:MET:HG3	1:A:119:ARG:NH2	2.18	0.58
2:B:271:ILE:CD1	2:B:316:ILE:HD12	2.34	0.58
2:B:439:PHE:CZ	2:B:450:GLU:HG2	2.37	0.58
3:C:1147:PRO:C	3:C:1149:LYS:H	2.06	0.58
3:C:1281:CYS:O	3:C:1290:ASN:HB2	2.04	0.58
3:C:1364:PHE:CE2	3:C:1368:GLY:HA2	2.39	0.58
3:C:579:PHE:HD1	3:C:579:PHE:N	2.01	0.58
3:C:903:ASP:OD1	3:C:905:SER:HB3	2.04	0.58
4:D:232:LYS:HD2	4:D:240:PHE:HE2	1.68	0.58
4:D:538:LEU:HD12	4:D:539:ILE:H	1.66	0.58
1:E:18:ARG:HH11	1:E:18:ARG:HG3	1.69	0.58
1:E:343:ASP:OD1	1:E:345:PHE:N	2.37	0.58
1:E:353:ILE:HB	1:E:386:THR:CG2	2.29	0.58
2:F:137:LYS:CE	2:F:181:GLU:HA	2.34	0.58
3:G:1026:LYS:HG3	3:G:1030:ASN:HD21	1.67	0.58
3:G:1148:ASP:O	3:G:1149:LYS:C	2.42	0.58
3:G:1241:LEU:O	3:G:1241:LEU:HD12	2.03	0.58
3:G:760:ASN:C	3:G:763:PRO:HD2	2.24	0.58
3:G:857:LEU:CD2	3:G:859:LEU:HG	2.33	0.58
3:G:981:ARG:HG3	3:G:981:ARG:HH11	1.67	0.58
4:H:343:LEU:HD12	4:H:344:VAL:N	2.11	0.58
1:A:381:ARG:O	1:A:384:LYS:HB2	2.04	0.58
1:A:357:LEU:HD13	1:A:382:ASP:CG	2.24	0.58
2:B:255:HIS:CD2	2:B:256:SER:H	2.20	0.58
4:D:547:PHE:C	4:D:547:PHE:CD1	2.77	0.58
2:F:314:LYS:HG3	2:F:353:PHE:CE2	2.39	0.58
2:F:49:ARG:HB2	2:F:102:SER:CB	2.29	0.58
3:G:549:ASN:ND2	3:G:552:ASN:N	2.52	0.58
3:G:565:HIS:CE1	3:G:567:SER:O	2.57	0.58
4:H:435:TYR:CD2	4:H:518:MET:HE3	2.38	0.58
1:A:14:LYS:HD2	1:A:74:ASN:HD21	1.69	0.58
1:A:192:VAL:CG2	1:A:302:PHE:HD1	2.17	0.58
2:B:336:MET:HE3	2:B:345:TYR:HE2	1.69	0.58
3:C:1116:LEU:HD12	3:C:1116:LEU:H	1.69	0.58
3:C:872:PHE:CZ	3:C:979:LYS:HE2	2.39	0.58
4:D:292:LYS:CG	4:D:293:GLU:N	2.61	0.58
4:D:327:PHE:CZ	4:D:552:LEU:O	2.56	0.58
1:E:171:ASP:HB2	1:E:174:VAL:HG23	1.84	0.58
2:F:118:ARG:CB	2:F:118:ARG:NH1	2.67	0.58
2:F:387:ARG:HH12	3:G:995:ASN:CA	2.17	0.58
3:G:564:VAL:CG1	3:G:565:HIS:N	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:170:VAL:HG11	4:H:594:GLN:HE21	1.67	0.58
4:H:279:SER:O	4:H:280:SER:C	2.41	0.58
2:B:159:LYS:HD3	2:B:159:LYS:C	2.23	0.58
3:C:1196:GLU:HG3	3:C:1197:GLN:H	1.68	0.58
3:C:1245:GLN:OE1	3:C:1248:VAL:HB	2.04	0.58
3:C:1250:HIS:CD2	3:C:1251:TYR:H	2.19	0.58
3:C:944:ILE:HG12	3:C:947:LYS:HZ1	1.69	0.58
3:C:954:ASN:H	3:C:954:ASN:ND2	2.01	0.58
4:D:279:SER:O	4:D:280:SER:C	2.42	0.58
1:E:227:ALA:HB1	1:E:233:ILE:CD1	2.32	0.58
2:F:105:ILE:HG22	2:F:106:LEU:N	2.19	0.58
2:F:443:HIS:ND1	2:F:443:HIS:C	2.56	0.58
3:G:1141:LYS:NZ	3:G:1147:PRO:CD	2.67	0.58
3:G:788:ASN:ND2	3:G:956:MET:HA	2.19	0.58
3:G:935:ASN:HD22	3:G:936:PRO:N	2.01	0.58
4:H:420:LEU:HB3	4:H:422:PHE:HE2	1.68	0.58
3:C:789:GLU:C	3:C:793:LEU:HG	2.23	0.58
1:E:388:LEU:O	1:E:392:VAL:HG23	2.04	0.58
2:F:195:PHE:C	2:F:195:PHE:CD1	2.77	0.58
2:F:271:ILE:HG22	2:F:272:SER:O	2.04	0.58
3:G:564:VAL:O	3:G:579:PHE:HB2	2.04	0.58
3:G:700:LEU:C	3:G:701:ILE:CG2	2.72	0.58
4:H:435:TYR:CZ	4:H:459:PRO:HD3	2.39	0.58
1:A:46:SER:O	1:A:47:PHE:HD1	1.86	0.57
2:B:426:LYS:HA	2:B:429:GLU:CD	2.24	0.57
2:B:81:LEU:C	2:B:82:LYS:HG2	2.25	0.57
3:C:1092:GLY:O	3:C:1095:VAL:HG23	2.04	0.57
3:C:563:LEU:HD22	3:C:582:HIS:HB2	1.84	0.57
3:C:658:HIS:HB2	3:C:661:LYS:HE3	1.86	0.57
1:E:237:LYS:HZ2	1:E:256:GLN:NE2	2.01	0.57
3:G:1272:LYS:HD3	3:G:1273:TYR:CE1	2.39	0.57
3:G:921:ARG:HH22	3:G:945:ARG:CZ	2.17	0.57
4:H:253:LEU:HG	4:H:314:LEU:CD2	2.31	0.57
1:A:147:LYS:HB2	1:A:155:ARG:NH2	2.19	0.57
1:A:192:VAL:HG11	1:A:304:ARG:HE	1.69	0.57
2:B:202:LEU:HA	2:B:206:PHE:O	2.03	0.57
3:C:437:LYS:HD2	3:C:802:ILE:HD13	1.86	0.57
3:G:1296:PHE:HZ	3:G:1405:LEU:CD2	2.10	0.57
3:G:1363:GLN:O	3:G:1370:LEU:HB3	2.05	0.57
3:G:1422:PHE:N	3:G:1422:PHE:HD2	2.01	0.57
3:G:543:SER:OG	3:G:748:ASP:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:552:ASN:O	3:G:553:HIS:ND1	2.37	0.57
3:G:701:ILE:O	3:G:706:TYR:OH	2.21	0.57
3:G:702:ARG:C	3:G:703:CYS:SG	2.82	0.57
3:G:721:VAL:HG12	3:G:722:VAL:N	2.18	0.57
3:G:864:LEU:HD12	3:G:864:LEU:C	2.25	0.57
3:C:1345:TRP:HZ3	3:C:1358:ARG:CB	2.16	0.57
3:C:555:ASN:ND2	3:C:555:ASN:N	2.48	0.57
3:C:585:VAL:HG22	3:C:618:LEU:HG	1.87	0.57
3:C:700:LEU:C	3:C:701:ILE:HG22	2.23	0.57
3:C:857:LEU:HD23	3:C:859:LEU:HG	1.83	0.57
3:C:843:LEU:CB	3:C:981:ARG:HG2	2.35	0.57
1:E:223:PHE:HE2	1:E:269:TRP:CE2	2.22	0.57
1:E:396:GLU:HA	1:E:399:LEU:HG	1.86	0.57
2:F:286:PRO:HG2	2:F:386:PHE:HE2	1.63	0.57
3:G:1157:VAL:HG21	3:G:1177:TYR:CB	2.34	0.57
3:G:1241:LEU:O	3:G:1243:PRO:HD2	2.03	0.57
3:G:498:TRP:O	3:G:499:LEU:HD23	2.04	0.57
3:G:600:GLU:HA	3:G:603:GLU:HG2	1.86	0.57
4:H:292:LYS:CD	4:H:293:GLU:H	2.17	0.57
1:A:108:PHE:HD2	1:A:305:LEU:HD13	1.69	0.57
2:B:26:LEU:CD2	2:B:128:LEU:HD12	2.35	0.57
3:C:1133:PHE:HB3	3:C:1211:TYR:OH	2.05	0.57
3:C:558:ILE:O	3:C:559:ALA:CB	2.51	0.57
3:C:565:HIS:CE1	3:C:567:SER:O	2.56	0.57
4:D:171:VAL:O	4:D:172:THR:OG1	2.18	0.57
4:D:493:ASP:HB3	4:D:496:SER:HB2	1.85	0.57
2:F:121:ILE:HD11	2:F:227:SER:HA	1.84	0.57
3:G:1033:TYR:C	3:G:1034:LYS:HD2	2.25	0.57
3:G:1230:ILE:HA	3:G:1234:LEU:CD2	2.30	0.57
3:G:861:PHE:HD1	3:G:864:LEU:CD2	2.17	0.57
4:H:365:ALA:HA	4:H:368:ASN:ND2	2.16	0.57
2:B:50:VAL:HG23	2:B:106:LEU:HD13	1.87	0.57
2:B:253:LEU:O	2:B:254:SER:CB	2.51	0.57
3:C:1105:ARG:O	3:C:1109:VAL:HG23	2.05	0.57
3:C:1133:PHE:HB3	3:C:1211:TYR:CZ	2.38	0.57
3:C:1369:PRO:HG2	3:C:1379:LEU:H	1.70	0.57
3:C:730:ASN:ND2	3:C:730:ASN:N	2.10	0.57
4:D:243:LEU:HD13	4:D:284:ILE:HG12	1.85	0.57
4:D:253:LEU:CD1	4:D:314:LEU:HD22	2.35	0.57
1:E:13:LEU:HD22	1:E:17:TYR:CZ	2.39	0.57
2:F:46:ALA:HB1	2:F:106:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:425:SER:C	4:H:437:GLN:HE22	2.08	0.57
1:A:343:ASP:HB3	1:A:346:THR:OG1	2.05	0.57
3:C:1409:THR:HG23	3:C:1410:THR:N	2.13	0.57
3:C:618:LEU:HD23	3:C:619:LEU:N	2.20	0.57
3:C:697:ALA:O	3:C:701:ILE:HG23	2.04	0.57
4:D:241:THR:HG21	4:D:251:VAL:HG11	1.85	0.57
4:D:243:LEU:HB3	4:D:284:ILE:HD13	1.86	0.57
4:D:307:ILE:HG13	4:D:315:VAL:HG23	1.86	0.57
1:E:187:GLU:HB3	2:F:196:ARG:O	2.04	0.57
1:E:350:ILE:O	1:E:354:CYS:HB2	2.04	0.57
3:G:1022:GLY:O	3:G:1025:VAL:HB	2.05	0.57
3:G:360:PHE:HE2	3:G:379:MET:HG3	1.70	0.57
3:G:716:LEU:HD21	3:G:755:ILE:HA	1.86	0.57
4:H:351:THR:OG1	4:H:353:ASP:OD2	2.19	0.57
4:H:569:GLY:C	4:H:570:THR:HG22	2.24	0.57
1:A:43:ARG:NH1	1:A:80:ILE:CG2	2.65	0.57
2:B:110:TYR:HD2	2:B:116:LEU:HB3	1.70	0.57
2:B:422:VAL:O	2:B:425:GLN:HB2	2.05	0.57
2:B:73:LYS:O	2:B:76:SER:HB3	2.04	0.57
3:C:621:PHE:O	3:C:624:ALA:HB3	2.03	0.57
3:C:968:TYR:HH	3:C:970:LYS:HD3	1.69	0.57
4:D:381:PHE:HE2	4:D:440:PHE:HE2	1.53	0.57
4:D:476:LEU:CD1	4:D:502:ILE:HD11	2.15	0.57
1:E:9:LEU:HD23	1:E:13:LEU:HG	1.85	0.57
1:E:156:LEU:HD22	1:E:395:PHE:CE1	2.39	0.57
1:E:398:PHE:O	1:E:402:LEU:HD22	2.05	0.57
2:F:274:ASP:N	2:F:274:ASP:OD2	2.33	0.57
3:G:1131:SER:O	3:G:1133:PHE:N	2.38	0.57
3:G:1294:ASN:HD22	3:G:1296:PHE:H	1.52	0.57
3:G:985:MET:O	3:G:988:LYS:N	2.38	0.57
4:H:224:ILE:HD13	4:H:256:GLN:HB3	1.87	0.57
1:A:90:GLN:O	1:A:93:THR:HB	2.04	0.57
2:B:441:LEU:CD1	2:B:446:GLN:HG2	2.34	0.57
3:C:1328:ASN:O	3:C:1331:ILE:HB	2.04	0.57
3:C:609:VAL:HG22	3:C:609:VAL:O	2.05	0.57
4:D:243:LEU:O	4:D:284:ILE:HG21	2.04	0.57
4:D:406:LEU:HG	4:D:410:ILE:HD11	1.87	0.57
1:E:237:LYS:HZ2	1:E:256:GLN:CD	2.08	0.57
3:G:1095:VAL:HG13	3:G:1112:ILE:HD11	1.82	0.57
3:G:383:ILE:HG12	3:G:523:PRO:HG2	1.85	0.57
3:G:946:GLN:NE2	3:G:947:LYS:H	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:411:GLU:HA	4:H:414:ARG:HG3	1.87	0.57
2:B:258:THR:HG22	2:B:366:SER:HB2	1.87	0.57
2:B:363:THR:O	2:B:363:THR:HG22	2.04	0.57
2:B:62:SER:C	2:B:63:TYR:CD2	2.79	0.57
3:C:1146:TYR:CE2	3:C:1155:VAL:HG21	2.39	0.57
4:D:343:LEU:C	4:D:344:VAL:HG22	2.24	0.57
2:F:47:ILE:HD13	2:F:260:GLN:HE22	1.70	0.57
2:F:77:GLU:O	2:F:78:LEU:C	2.43	0.57
3:G:858:LEU:CD1	3:G:1007:MET:HG3	2.15	0.57
3:G:489:MET:HG3	3:G:797:TYR:CE2	2.40	0.57
3:G:364:LYS:NZ	3:G:632:ASP:OD1	2.32	0.57
3:G:653:VAL:HG12	3:G:654:CYS:N	2.20	0.57
3:G:746:TRP:O	3:G:747:LYS:C	2.42	0.57
4:H:255:GLY:HA3	4:H:272:LEU:HD21	1.87	0.57
4:H:358:ASP:HB2	4:H:359:PRO:CD	2.26	0.57
4:H:571:PHE:N	4:H:571:PHE:CD2	2.72	0.57
3:C:1002:ASP:O	3:C:1004:ASP:N	2.34	0.57
3:C:539:VAL:CG1	3:C:540:MET:N	2.68	0.57
3:C:740:TYR:HD1	3:C:740:TYR:O	1.85	0.57
4:D:389:VAL:HG22	4:D:394:LEU:HD11	1.86	0.57
4:D:411:GLU:C	4:D:413:THR:H	2.08	0.57
4:D:571:PHE:CE2	4:D:598:ILE:HD13	2.40	0.57
2:F:252:HIS:CD2	2:F:255:HIS:CD2	2.93	0.57
2:F:275:GLN:O	2:F:279:LEU:HG	2.04	0.57
2:F:360:THR:OG1	2:F:360:THR:O	2.23	0.57
3:G:549:ASN:HB3	3:G:554:GLN:HG3	1.87	0.57
3:G:784:ARG:HD2	3:G:784:ARG:N	2.19	0.57
3:G:902:PRO:HB2	3:G:906:LEU:HD13	1.86	0.57
4:H:229:SER:O	4:H:233:GLU:HG2	2.04	0.57
4:H:227:LEU:CD1	4:H:231:LEU:HD21	2.35	0.57
4:H:356:THR:HB	4:H:358:ASP:OD1	2.05	0.57
4:H:385:LYS:HD3	4:H:427:ARG:HH21	1.68	0.57
2:B:53:LEU:HD11	2:B:124:GLU:OE1	2.04	0.56
3:C:796:PHE:CE2	3:C:910:ILE:HG21	2.41	0.56
3:C:920:GLU:HG2	3:C:923:LYS:HZ1	1.70	0.56
4:D:312:ARG:NH1	4:D:312:ARG:HB2	2.20	0.56
1:E:154:HIS:N	1:E:154:HIS:CD2	2.73	0.56
2:F:419:HIS:HB3	2:F:422:VAL:HG21	1.86	0.56
2:F:71:GLN:O	2:F:75:GLU:HG2	2.04	0.56
3:G:1328:ASN:O	3:G:1331:ILE:HB	2.05	0.56
3:G:389:PHE:HD2	3:G:476:VAL:HB	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:497:CYS:SG	3:G:499:LEU:CD2	2.93	0.56
3:G:522:LYS:H	3:G:525:LEU:CD1	2.18	0.56
3:G:607:VAL:O	3:G:609:VAL:N	2.30	0.56
4:H:300:GLN:O	4:H:302:VAL:HG13	2.05	0.56
1:A:270:GLU:O	1:A:273:LYS:HB2	2.05	0.56
2:B:441:LEU:HD21	2:B:447:PHE:CD1	2.40	0.56
3:C:1195:PRO:O	3:C:1198:LEU:HB3	2.06	0.56
3:C:1222:ARG:HH11	3:C:1222:ARG:CG	2.18	0.56
3:C:546:THR:HG22	3:C:556:GLU:O	2.05	0.56
3:C:596:TYR:O	3:C:597:ALA:HB3	2.05	0.56
3:C:689:MET:O	3:C:690:ILE:HD13	2.05	0.56
3:C:908:MET:HB2	3:C:913:ARG:HD3	1.85	0.56
3:C:947:LYS:O	3:C:950:LYS:HB3	2.04	0.56
4:D:174:PHE:CD1	4:D:174:PHE:C	2.79	0.56
4:D:265:LEU:HD22	4:D:298:PRO:HD3	1.86	0.56
4:D:484:GLU:OE1	4:D:497:ARG:NH1	2.39	0.56
4:D:509:TYR:CE1	4:D:514:PRO:HB3	2.40	0.56
1:E:395:PHE:O	1:E:399:LEU:HG	2.05	0.56
3:G:1325:GLN:O	3:G:1328:ASN:HB2	2.04	0.56
4:H:182:TRP:HB3	4:H:341:MET:HE3	1.87	0.56
2:B:29:TYR:HB3	2:B:103:HIS:CD2	2.40	0.56
2:B:362:TYR:CD2	2:B:362:TYR:O	2.54	0.56
3:C:1217:HIS:O	3:C:1218:PRO:C	2.43	0.56
3:C:636:GLY:HA2	3:C:752:ILE:HG21	1.87	0.56
3:C:769:THR:HG23	3:C:774:ASN:OD1	2.04	0.56
3:C:957:TYR:O	3:C:960:LEU:N	2.33	0.56
3:C:981:ARG:HG3	3:C:981:ARG:NH1	2.20	0.56
1:E:162:ARG:NH2	1:E:326:LYS:HD3	2.19	0.56
2:F:218:ILE:HG22	2:F:219:LEU:N	2.20	0.56
2:F:229:ALA:O	2:F:233:THR:HG23	2.04	0.56
3:G:1116:LEU:HA	3:G:1119:ILE:HG12	1.85	0.56
3:G:1357:THR:HG23	3:G:1359:HIS:H	1.68	0.56
3:G:594:PHE:CD1	3:G:594:PHE:N	2.72	0.56
1:E:95:LYS:NZ	3:G:881:ARG:H	2.03	0.56
3:G:977:THR:C	3:G:981:ARG:HH12	2.08	0.56
3:G:985:MET:O	3:G:986:HIS:C	2.44	0.56
4:H:476:LEU:HD13	4:H:509:TYR:CD2	2.39	0.56
1:A:157:TRP:HB2	1:A:334:ILE:HB	1.86	0.56
1:A:156:LEU:HD22	1:A:398:PHE:CD2	2.40	0.56
1:A:48:THR:CB	1:A:77:LYS:HB2	2.34	0.56
2:B:103:HIS:HD2	2:B:104:PHE:CD1	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:366:TRP:CH2	3:C:371:GLU:HA	2.40	0.56
3:C:365:VAL:HG13	3:C:376:CYS:SG	2.45	0.56
3:C:652:ASN:HD22	3:C:670:MET:CG	2.18	0.56
3:C:746:TRP:O	3:C:749:ALA:N	2.38	0.56
3:C:946:GLN:NE2	3:C:947:LYS:CG	2.69	0.56
4:D:156:THR:H	4:D:157:PRO:CD	2.15	0.56
1:E:113:THR:HG22	1:E:124:SER:O	2.04	0.56
1:E:41:GLN:N	1:E:41:GLN:NE2	2.54	0.56
2:F:309:TYR:CD1	2:F:313:LEU:HD21	2.40	0.56
2:F:87:GLU:HA	2:F:93:TYR:CE1	2.41	0.56
3:G:1224:CYS:HA	3:G:1227:ILE:HD13	1.87	0.56
3:G:1334:ILE:O	3:G:1338:ILE:HG13	2.05	0.56
3:G:1416:LYS:HG3	3:G:1417:LEU:HD12	1.87	0.56
3:G:579:PHE:HD1	3:G:579:PHE:N	2.02	0.56
3:G:752:ILE:O	3:G:752:ILE:HG22	2.05	0.56
4:H:464:ILE:O	4:H:467:VAL:HB	2.05	0.56
2:B:438:GLY:O	2:B:439:PHE:HB3	2.04	0.56
3:C:549:ASN:ND2	3:C:552:ASN:O	2.38	0.56
3:C:790:PHE:O	3:C:791:LEU:C	2.42	0.56
4:D:196:LEU:HD12	4:D:197:GLY:H	1.70	0.56
2:F:159:LYS:HE3	2:F:178:LEU:CD2	2.36	0.56
2:F:22:TYR:HB2	2:F:84:SER:OG	2.05	0.56
3:G:570:LEU:HD13	3:G:766:LEU:CD2	2.33	0.56
3:G:621:PHE:O	3:G:624:ALA:HB3	2.06	0.56
4:H:407:ARG:O	4:H:409:ILE:N	2.39	0.56
2:B:170:SER:CB	2:B:171:PRO:HD2	2.34	0.56
3:C:382:ASN:ND2	3:C:521:LEU:HD22	2.20	0.56
3:G:1155:VAL:O	3:G:1159:LEU:HD12	2.05	0.56
3:G:1320:LEU:C	3:G:1320:LEU:HD13	2.25	0.56
3:G:1334:ILE:CG2	3:G:1440:PHE:CE1	2.88	0.56
3:G:596:TYR:O	3:G:597:ALA:HB3	2.05	0.56
3:G:650:ARG:CA	3:G:650:ARG:NH1	2.60	0.56
3:G:708:LEU:O	3:G:712:VAL:HG23	2.06	0.56
3:G:792:LEU:HD21	3:G:956:MET:HE2	1.86	0.56
3:G:863:SER:C	3:G:866:PRO:HD2	2.26	0.56
3:G:946:GLN:NE2	3:G:947:LYS:CG	2.69	0.56
3:G:982:GLU:HA	3:G:985:MET:CE	2.35	0.56
3:C:1131:SER:O	3:C:1133:PHE:N	2.37	0.56
3:C:1341:TYR:C	3:C:1341:TYR:CD2	2.79	0.56
4:D:357:TYR:CD1	4:D:357:TYR:N	2.74	0.56
4:D:382:LEU:HD11	4:D:389:VAL:CG2	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:596:VAL:HG12	4:D:597:ARG:O	2.05	0.56
1:E:171:ASP:HB2	1:E:174:VAL:CG2	2.35	0.56
1:E:248:PRO:HD2	1:E:292:LEU:HD11	1.87	0.56
3:G:1198:LEU:HD12	3:G:1198:LEU:C	2.26	0.56
3:G:491:ARG:O	3:G:492:LYS:HD2	2.05	0.56
3:G:375:SER:OG	3:G:630:ASP:OD2	2.18	0.56
3:G:767:GLN:O	3:G:771:ILE:HG13	2.05	0.56
4:H:212:LYS:C	4:H:214:PRO:HD2	2.26	0.56
4:H:446:SER:O	4:H:450:LYS:CG	2.51	0.56
2:B:313:LEU:O	2:B:316:ILE:HG12	2.06	0.56
3:C:564:VAL:CG1	3:C:565:HIS:N	2.67	0.56
3:C:762:LEU:HD23	3:C:762:LEU:H	1.70	0.56
3:C:953:ALA:O	3:C:956:MET:CB	2.53	0.56
2:F:158:GLU:CG	2:F:162:ARG:HH21	2.17	0.56
2:F:328:LYS:O	2:F:332:ILE:HG13	2.05	0.56
2:F:362:TYR:HD2	2:F:362:TYR:C	2.06	0.56
2:F:94:GLU:HG3	2:F:95:PRO:HD3	1.87	0.56
3:G:437:LYS:HG3	3:G:802:ILE:HD11	1.88	0.56
3:G:861:PHE:CD1	3:G:864:LEU:HD22	2.39	0.56
4:H:349:TYR:OH	4:H:377:LEU:HB3	2.06	0.56
1:A:234:LEU:HD22	1:A:240:TRP:HA	1.88	0.56
2:B:394:LEU:O	2:B:398:LEU:HG	2.06	0.56
3:C:746:TRP:O	3:C:747:LYS:C	2.43	0.56
3:C:872:PHE:O	3:C:873:ASN:C	2.43	0.56
1:E:241:ASP:HA	1:E:244:LEU:CD1	2.34	0.56
2:F:359:ARG:C	2:F:360:THR:HG22	2.25	0.56
3:G:635:VAL:O	3:G:635:VAL:HG22	2.05	0.56
3:G:843:LEU:HB3	3:G:981:ARG:HG2	1.87	0.56
4:H:363:LEU:HG	4:H:367:ILE:HD11	1.88	0.56
1:A:290:PRO:O	1:A:291:TRP:HB2	2.04	0.56
2:B:265:GLN:CG	2:B:266:GLY:N	2.69	0.56
2:B:425:GLN:O	2:B:429:GLU:HG3	2.06	0.56
3:C:1230:ILE:HG22	3:C:1235:ILE:HD11	1.88	0.56
3:C:1388:LEU:O	3:C:1391:GLN:N	2.36	0.56
3:C:598:PHE:O	3:C:599:LYS:C	2.44	0.56
3:C:707:HIS:O	3:C:708:LEU:C	2.42	0.56
3:C:728:ILE:HG22	3:C:729:GLN:N	2.20	0.56
4:D:346:CYS:CA	4:D:378:PHE:HB2	2.36	0.56
4:D:431:HIS:NE2	4:D:438:PRO:HD2	2.21	0.56
3:G:387:LEU:CD1	3:G:457:TYR:HE1	2.19	0.56
3:G:661:LYS:C	3:G:663:GLY:N	2.57	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:633:ILE:HG12	3:G:689:MET:HB2	1.88	0.56
3:G:790:PHE:O	3:G:793:LEU:HB2	2.05	0.56
2:B:292:HIS:CE1	2:B:296:ARG:HE	2.24	0.56
2:B:392:GLU:O	2:B:395:LYS:HB3	2.06	0.56
3:C:1290:ASN:ND2	3:C:1311:SER:OG	2.39	0.56
3:C:1372:PRO:HA	3:C:1375:MET:HE1	1.88	0.56
3:C:1379:LEU:O	3:C:1380:GLN:NE2	2.38	0.56
3:C:636:GLY:CA	3:C:752:ILE:HD13	2.35	0.56
3:C:998:VAL:O	3:C:998:VAL:HG12	2.05	0.56
4:D:157:PRO:HB3	4:D:354:SER:CB	2.35	0.56
4:D:213:LEU:HB2	4:D:214:PRO:HD3	1.87	0.56
1:E:110:ILE:HG13	1:E:165:VAL:O	2.06	0.56
1:E:194:GLY:HA2	1:E:201:LYS:HD3	1.88	0.56
1:E:48:THR:CB	1:E:77:LYS:HB2	2.36	0.56
1:E:82:ALA:CB	1:E:104:LYS:HB2	2.36	0.56
2:F:184:TYR:HD1	2:F:209:VAL:O	1.89	0.56
2:F:328:LYS:HZ2	2:F:341:PHE:HD2	1.50	0.56
3:G:1149:LYS:CD	3:G:1150:LYS:H	2.19	0.56
3:G:1376:LYS:HA	3:G:1376:LYS:HE2	1.87	0.56
3:G:598:PHE:O	3:G:599:LYS:C	2.42	0.56
3:G:725:MET:HA	3:G:728:ILE:CD1	2.33	0.56
3:G:790:PHE:O	3:G:791:LEU:C	2.43	0.56
4:H:435:TYR:HD1	4:H:436:PRO:N	2.03	0.56
1:A:169:VAL:CG1	1:A:174:VAL:HG11	2.36	0.55
1:A:208:ILE:HG23	1:A:212:ILE:HB	1.88	0.55
3:C:1019:PHE:O	3:C:1022:GLY:N	2.39	0.55
3:C:362:PHE:N	3:C:362:PHE:CD1	2.73	0.55
3:G:1246:PHE:O	3:G:1249:HIS:HB2	2.07	0.55
3:G:522:LYS:O	3:G:525:LEU:CG	2.52	0.55
3:G:636:GLY:CA	3:G:639:ILE:HD11	2.30	0.55
3:G:720:ARG:O	3:G:720:ARG:HD3	2.06	0.55
3:G:695:ILE:CD1	3:G:781:MET:O	2.50	0.55
3:G:935:ASN:HD22	3:G:937:ASP:H	1.49	0.55
4:H:253:LEU:N	4:H:253:LEU:HD22	2.21	0.55
1:A:128:CYS:HB2	1:A:129:PRO:CD	2.37	0.55
1:A:177:LEU:HB2	1:A:182:ARG:HE	1.69	0.55
1:A:209:HIS:CD2	1:A:210:PRO:HD2	2.41	0.55
1:A:214:LYS:O	1:A:217:ASN:HB2	2.06	0.55
2:B:37:ILE:CG2	2:B:41:GLU:HB3	2.36	0.55
2:B:74:LEU:HD23	2:B:130:PHE:CD1	2.42	0.55
3:C:1184:SER:C	3:C:1186:LEU:H	2.09	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1411:ASP:O	3:C:1415:ASP:CG	2.44	0.55
3:C:602:ILE:HG22	3:C:603:GLU:N	2.21	0.55
3:C:978:TYR:O	3:C:980:GLY:N	2.39	0.55
4:D:344:VAL:HG21	4:D:574:LEU:HD11	1.88	0.55
1:E:330:ILE:HG12	1:E:348:PRO:O	2.06	0.55
2:F:295:LEU:HG	2:F:330:GLU:HG2	1.88	0.55
3:G:1451:LEU:HD23	3:G:1454:LEU:HD23	1.87	0.55
3:G:803:VAL:CB	3:G:804:PRO:CD	2.79	0.55
4:H:156:THR:H	4:H:157:PRO:CD	2.15	0.55
4:H:328:TYR:O	4:H:330:PRO:HD3	2.05	0.55
4:H:435:TYR:CD1	4:H:436:PRO:CA	2.90	0.55
4:H:182:TRP:CD2	4:H:573:ARG:HD2	2.41	0.55
2:B:22:TYR:N	2:B:25:CYS:HB3	2.20	0.55
3:C:762:LEU:N	3:C:763:PRO:CD	2.70	0.55
3:C:774:ASN:HD21	3:C:779:THR:HG1	1.52	0.55
3:C:874:ILE:HD13	3:C:976:VAL:HG23	1.88	0.55
3:C:1332:MET:HE1	4:D:390:GLU:HA	1.88	0.55
4:D:567:VAL:CG1	4:D:568:GLY:N	2.67	0.55
1:E:106:LEU:CD2	1:E:185:ILE:HD13	2.36	0.55
1:E:49:LEU:HD13	1:E:50:LYS:NZ	2.22	0.55
1:E:69:GLU:O	1:E:73:MET:CG	2.49	0.55
2:F:401:TYR:HD2	2:F:427:TYR:HE2	1.54	0.55
3:G:764:LEU:O	3:G:768:ILE:HG13	2.06	0.55
3:G:978:TYR:O	3:G:980:GLY:N	2.39	0.55
4:H:357:TYR:O	4:H:360:LEU:CB	2.53	0.55
2:B:32:PRO:HA	2:B:104:PHE:HE2	1.68	0.55
3:C:1219:VAL:O	3:C:1220:VAL:C	2.45	0.55
3:C:1433:LEU:O	3:C:1436:THR:HB	2.06	0.55
3:C:682:ARG:HD3	3:C:683:ASN:ND2	2.20	0.55
4:D:236:LYS:HD2	4:D:236:LYS:O	2.06	0.55
1:E:144:ARG:HG2	1:E:144:ARG:HH21	1.71	0.55
1:E:255:LEU:HD21	1:E:272:LEU:HA	1.88	0.55
2:F:433:ASN:O	2:F:434:VAL:CG1	2.54	0.55
3:G:1251:TYR:CD1	3:G:1253:LYS:HB3	2.41	0.55
3:G:499:LEU:HD22	3:G:528:VAL:HG22	1.87	0.55
1:A:140:ARG:O	1:A:144:ARG:CB	2.46	0.55
1:A:192:VAL:HG22	1:A:302:PHE:HD1	1.70	0.55
1:A:162:ARG:NH2	1:A:326:LYS:HG2	2.21	0.55
2:B:23:PRO:HD2	2:B:25:CYS:CB	2.36	0.55
2:B:426:LYS:HA	2:B:429:GLU:OE1	2.05	0.55
3:C:416:GLU:OE1	3:C:471:GLU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:156:LEU:HB2	1:E:398:PHE:CZ	2.42	0.55
1:E:66:LEU:HD11	1:E:70:MET:HE3	1.89	0.55
2:F:159:LYS:HD3	2:F:159:LYS:C	2.27	0.55
2:F:243:ASP:C	2:F:243:ASP:OD1	2.45	0.55
3:G:1329:LYS:HE3	3:G:1333:ASP:OD2	2.06	0.55
3:G:529:ILE:O	3:G:529:ILE:HG23	2.05	0.55
3:G:538:VAL:HB	3:G:632:ASP:OD1	2.06	0.55
4:H:355:ILE:O	4:H:357:TYR:CD1	2.60	0.55
1:A:273:LYS:O	1:A:277:SER:OG	2.23	0.55
1:A:139:ILE:HG21	1:A:339:VAL:HG13	1.88	0.55
2:B:298:ASN:N	2:B:298:ASN:HD22	2.04	0.55
2:B:38:SER:C	2:B:40:ILE:H	2.10	0.55
2:B:445:ASN:O	2:B:448:PHE:N	2.40	0.55
3:C:1348:CYS:SG	3:C:1353:CYS:CB	2.78	0.55
3:C:1389:TYR:CD2	3:C:1389:TYR:O	2.60	0.55
4:D:479:HIS:CD2	4:D:515:GLN:NE2	2.74	0.55
1:E:267:GLN:HG2	1:E:271:HIS:NE2	2.22	0.55
1:E:65:ASP:OD2	1:E:65:ASP:N	2.39	0.55
2:F:369:LYS:HG2	2:F:370:ILE:N	2.21	0.55
3:G:1186:LEU:HD21	3:G:1190:GLN:OE1	2.06	0.55
3:G:1215:GLN:C	3:G:1218:PRO:HD2	2.27	0.55
3:G:1399:PHE:CD2	3:G:1433:LEU:HB3	2.42	0.55
3:G:698:LYS:HG2	3:G:706:TYR:CD1	2.42	0.55
3:G:854:LYS:N	3:G:854:LYS:HD3	2.22	0.55
3:G:864:LEU:HD12	3:G:868:ILE:HG13	1.87	0.55
3:G:867:SER:HA	3:G:870:GLN:HE21	1.72	0.55
4:H:571:PHE:CZ	4:H:598:ILE:HD13	2.42	0.55
1:A:105:GLU:OE1	1:A:175:ARG:HG2	2.06	0.55
1:A:139:ILE:HG21	1:A:339:VAL:CG1	2.37	0.55
1:A:147:LYS:HB2	1:A:155:ARG:CZ	2.37	0.55
1:A:270:GLU:O	1:A:274:LYS:HG3	2.06	0.55
1:A:386:THR:HG22	1:A:387:SER:N	2.22	0.55
3:C:1222:ARG:HG3	3:C:1223:ILE:HG13	1.89	0.55
3:C:1345:TRP:CE3	3:C:1358:ARG:HG3	2.42	0.55
3:C:953:ALA:O	3:C:956:MET:HB2	2.07	0.55
1:E:107:VAL:HA	1:E:167:CYS:O	2.07	0.55
2:F:265:GLN:HG2	2:F:266:GLY:N	2.18	0.55
3:G:1216:ILE:C	3:G:1218:PRO:HD2	2.27	0.55
3:G:362:PHE:CD2	3:G:687:GLY:HA3	2.40	0.55
3:G:792:LEU:HD12	3:G:967:PHE:HD1	1.71	0.55
3:G:848:LYS:HZ3	3:G:997:GLU:CG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1154:HIS:CE1	3:C:1155:VAL:CG2	2.86	0.55
3:C:1273:TYR:CD2	3:C:1394:PHE:HD1	2.25	0.55
3:C:344:TYR:N	3:C:498:TRP:CE3	2.74	0.55
4:D:158:SER:OG	4:D:356:THR:HG21	2.06	0.55
4:D:212:LYS:C	4:D:214:PRO:HD2	2.27	0.55
4:D:376:ILE:HG12	4:D:421:VAL:CG1	2.37	0.55
2:F:121:ILE:HG12	2:F:226:LEU:CD2	2.35	0.55
2:F:77:GLU:OE1	2:F:77:GLU:HA	2.07	0.55
3:G:1272:LYS:HD3	3:G:1273:TYR:HE1	1.71	0.55
3:G:701:ILE:CG1	3:G:703:CYS:SG	2.95	0.55
3:G:953:ALA:O	3:G:956:MET:CB	2.47	0.55
4:H:256:GLN:N	4:H:272:LEU:HD11	2.22	0.55
1:A:157:TRP:HA	1:A:166:HIS:O	2.07	0.55
2:B:55:SER:O	2:B:59:LEU:HG	2.07	0.55
2:B:421:GLN:CG	6:B:601:SF4:S4	2.95	0.55
3:C:595:PRO:CG	3:C:732:TYR:O	2.50	0.55
3:C:763:PRO:O	3:C:764:LEU:C	2.45	0.55
3:C:857:LEU:HD23	3:C:857:LEU:O	2.07	0.55
3:C:857:LEU:HD21	3:C:859:LEU:HD21	1.88	0.55
1:E:134:LEU:HD21	1:E:226:TYR:HE2	1.72	0.55
3:G:1371:CYS:CA	3:G:1379:LEU:HD21	2.35	0.55
3:G:1397:TYR:CD1	3:G:1397:TYR:C	2.79	0.55
3:G:365:VAL:HG13	3:G:376:CYS:SG	2.47	0.55
4:H:185:ARG:HB2	4:H:188:ALA:HB3	1.88	0.55
4:H:213:LEU:HB2	4:H:214:PRO:HD3	1.87	0.55
4:H:371:ARG:NH1	4:H:416:SER:O	2.40	0.55
1:A:344:PRO:HD2	1:A:345:PHE:CE1	2.42	0.55
2:B:215:VAL:O	2:B:218:ILE:HB	2.07	0.55
3:C:1131:SER:HA	3:C:1134:GLU:HG3	1.88	0.55
3:C:1219:VAL:HA	3:C:1222:ARG:HD3	1.89	0.55
3:C:1113:GLN:HG3	3:C:1238:TRP:CE2	2.41	0.55
3:C:1340:LYS:O	3:C:1341:TYR:C	2.44	0.55
3:C:1369:PRO:O	3:C:1369:PRO:HG2	2.06	0.55
3:C:1437:ALA:O	3:C:1438:GLU:C	2.45	0.55
3:C:977:THR:CB	3:C:981:ARG:HH12	2.16	0.55
4:D:561:ARG:HB2	4:D:563:THR:O	2.06	0.55
2:F:137:LYS:HE2	2:F:181:GLU:HB3	1.88	0.55
2:F:371:ILE:HG22	2:F:372:LEU:CD2	2.37	0.55
2:F:393:LEU:HG	2:F:397:LYS:HE3	1.88	0.55
3:G:651:ILE:HG23	3:G:652:ASN:N	2.21	0.55
3:G:796:PHE:CZ	3:G:910:ILE:HG21	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:540:ILE:N	4:H:540:ILE:CD1	2.66	0.55
2:B:298:ASN:N	2:B:298:ASN:ND2	2.55	0.54
3:C:1034:LYS:HB2	3:C:1035:LEU:HD23	1.89	0.54
3:C:579:PHE:HD1	3:C:579:PHE:H	1.55	0.54
3:C:661:LYS:C	3:C:663:GLY:N	2.60	0.54
3:C:866:PRO:HG3	3:C:954:ASN:HA	1.89	0.54
4:D:443:SER:O	4:D:445:LEU:N	2.40	0.54
1:E:199:LYS:HZ1	1:E:242:LYS:HG3	1.72	0.54
1:E:219:ILE:O	1:E:223:PHE:HB2	2.07	0.54
2:F:385:PRO:HG2	2:F:386:PHE:N	2.19	0.54
3:G:1222:ARG:HG2	3:G:1223:ILE:CD1	2.33	0.54
3:G:1299:SER:HA	3:G:1303:MET:CE	2.36	0.54
3:G:598:PHE:CZ	3:G:738:LEU:HD23	2.42	0.54
4:H:176:LEU:HD11	4:H:591:ILE:HG22	1.89	0.54
4:H:435:TYR:CD1	4:H:436:PRO:N	2.75	0.54
4:H:574:LEU:HG	4:H:593:VAL:CG2	2.37	0.54
1:A:146:LEU:CB	1:A:155:ARG:HD3	2.36	0.54
2:B:103:HIS:CD2	2:B:104:PHE:CD1	2.95	0.54
2:B:164:GLN:HE22	2:B:176:LEU:HD11	1.72	0.54
3:C:1231:ASP:O	3:C:1232:ALA:C	2.44	0.54
3:C:619:LEU:HD12	3:C:651:ILE:HA	1.88	0.54
3:C:925:VAL:HG21	3:C:945:ARG:HD3	1.88	0.54
1:E:106:LEU:HD13	1:E:182:ARG:HD3	1.89	0.54
2:F:78:LEU:HD12	2:F:130:PHE:HE2	1.72	0.54
3:G:855:PHE:CE2	3:G:1045:LYS:HG3	2.42	0.54
3:G:1400:ASP:OD1	3:G:1403:CYS:HB2	2.07	0.54
3:G:588:LYS:HD3	3:G:594:PHE:HE1	1.70	0.54
4:H:430:HIS:NE2	4:H:440:PHE:CE1	2.75	0.54
4:H:294:TYR:CE1	4:H:486:SER:C	2.77	0.54
1:A:251:ILE:HD12	1:A:275:VAL:CG1	2.37	0.54
2:B:49:ARG:NH1	2:B:103:HIS:HB2	2.22	0.54
2:B:38:SER:C	2:B:40:ILE:N	2.60	0.54
2:B:406:GLY:O	2:B:409:SER:OG	2.22	0.54
3:C:1000:TYR:CG	3:C:1001:GLY:N	2.75	0.54
3:C:585:VAL:HG11	3:C:621:PHE:HD2	1.71	0.54
4:D:156:THR:HG22	4:D:159:GLN:HB2	1.89	0.54
4:D:495:PHE:HA	4:D:498:ILE:CG1	2.36	0.54
4:D:526:TYR:C	4:D:526:TYR:CD2	2.81	0.54
4:D:593:VAL:CG1	4:D:594:GLN:N	2.71	0.54
1:E:273:LYS:HD2	1:E:293:GLU:CD	2.27	0.54
1:E:21:PHE:HE2	1:E:321:PHE:O	1.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:38:ASN:HB3	1:E:41:GLN:HB2	1.89	0.54
3:G:1328:ASN:O	3:G:1331:ILE:N	2.41	0.54
3:G:378:VAL:HA	3:G:518:ALA:O	2.08	0.54
3:G:413:VAL:HA	3:G:472:THR:CB	2.38	0.54
3:G:707:HIS:O	3:G:708:LEU:C	2.44	0.54
3:G:855:PHE:HE2	3:G:1045:LYS:CG	2.20	0.54
4:H:593:VAL:CG1	4:H:594:GLN:N	2.71	0.54
1:A:142:ILE:O	1:A:146:LEU:HG	2.07	0.54
2:B:23:PRO:O	2:B:25:CYS:N	2.38	0.54
2:B:431:ILE:HG23	2:B:432:HIS:ND1	2.22	0.54
2:B:50:VAL:HG23	2:B:106:LEU:CD1	2.37	0.54
2:B:78:LEU:HD12	2:B:130:PHE:HE2	1.72	0.54
3:C:553:HIS:ND1	3:C:554:GLN:N	2.56	0.54
3:C:545:LYS:CE	3:C:723:ILE:HD13	2.38	0.54
3:C:869:ILE:HA	3:C:874:ILE:HD12	1.90	0.54
3:C:934:LEU:HD12	3:C:935:ASN:H	1.72	0.54
4:D:243:LEU:CD2	4:D:253:LEU:HD13	2.36	0.54
2:F:136:PRO:C	2:F:138:ASP:H	2.11	0.54
2:F:358:LYS:HD3	3:G:1274:ARG:NH2	2.09	0.54
2:F:38:SER:C	2:F:40:ILE:N	2.60	0.54
3:G:1184:SER:C	3:G:1186:LEU:H	2.10	0.54
3:G:1299:SER:HA	3:G:1303:MET:HE2	1.87	0.54
3:G:599:LYS:O	3:G:603:GLU:CG	2.54	0.54
3:G:746:TRP:O	3:G:749:ALA:N	2.40	0.54
3:G:774:ASN:O	3:G:775:ILE:HG13	2.08	0.54
3:G:774:ASN:ND2	3:G:775:ILE:H	2.04	0.54
1:E:95:LYS:NZ	3:G:881:ARG:O	2.41	0.54
4:H:431:HIS:O	4:H:433:PRO:HD3	2.07	0.54
4:H:493:ASP:O	4:H:494:ARG:C	2.45	0.54
4:H:532:PRO:CG	4:H:533:VAL:N	2.71	0.54
1:A:35:VAL:O	1:A:36:ILE:HD13	2.07	0.54
2:B:121:ILE:HD11	2:B:227:SER:N	2.23	0.54
3:C:1095:VAL:O	3:C:1096:ILE:C	2.46	0.54
4:D:414:ARG:HH11	4:D:414:ARG:HG3	1.72	0.54
4:D:493:ASP:O	4:D:494:ARG:C	2.44	0.54
1:E:174:VAL:O	1:E:177:LEU:HG	2.06	0.54
1:E:247:VAL:CG1	1:E:248:PRO:HD2	2.38	0.54
2:F:137:LYS:NZ	2:F:181:GLU:HA	2.20	0.54
2:F:30:LEU:HG	2:F:31:GLN:HG3	1.90	0.54
3:G:1010:THR:O	3:G:1011:ASN:CB	2.55	0.54
3:G:1035:LEU:O	3:G:1036:LEU:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1253:LYS:O	3:G:1255:GLU:N	2.41	0.54
3:G:411:LYS:H	3:G:411:LYS:CD	1.96	0.54
3:G:578:PRO:HB2	3:G:753:LEU:HD23	1.89	0.54
3:G:851:PHE:CD1	3:G:1048:LEU:HD12	2.43	0.54
4:H:251:VAL:O	4:H:305:GLU:HA	2.06	0.54
1:A:45:PHE:O	1:A:58:GLN:HG2	2.07	0.54
1:A:210:PRO:HG2	2:B:201:TYR:CD2	2.42	0.54
3:C:1253:LYS:O	3:C:1255:GLU:N	2.41	0.54
3:C:1332:MET:CE	4:D:390:GLU:HA	2.37	0.54
3:C:365:VAL:CG2	3:C:376:CYS:HB2	2.33	0.54
3:C:409:SER:O	3:C:412:ASP:HB2	2.08	0.54
3:C:563:LEU:HD21	3:C:746:TRP:CD1	2.40	0.54
3:C:610:GLU:OE1	3:C:611:VAL:N	2.40	0.54
3:C:985:MET:O	3:C:988:LYS:N	2.41	0.54
1:E:112:MET:CB	1:E:163:ARG:HB2	2.37	0.54
1:E:213:ARG:HA	1:E:216:ILE:HD12	1.88	0.54
2:F:49:ARG:HH11	2:F:103:HIS:HB2	1.69	0.54
2:F:290:GLN:OE1	2:F:397:LYS:NZ	2.35	0.54
2:F:428:PHE:HZ	2:F:450:GLU:HB3	1.70	0.54
3:G:1135:ILE:HB	3:G:1177:TYR:CE1	2.43	0.54
3:G:1242:ASP:N	3:G:1243:PRO:HD2	2.19	0.54
3:G:1392:LEU:HB3	3:G:1441:LEU:HD21	1.90	0.54
3:G:587:SER:OG	3:G:588:LYS:N	2.36	0.54
3:G:598:PHE:CE1	3:G:739:LEU:HD22	2.43	0.54
3:G:911:LEU:HD11	3:G:915:ILE:HD11	1.90	0.54
4:H:382:LEU:HD12	4:H:382:LEU:C	2.27	0.54
2:B:355:LYS:HG2	3:C:1247:ARG:NH2	2.23	0.54
2:B:57:GLU:O	2:B:61:VAL:HG23	2.07	0.54
3:C:1014:ASN:ND2	3:C:1016:GLU:HB2	2.23	0.54
3:C:1148:ASP:O	3:C:1149:LYS:C	2.45	0.54
3:C:790:PHE:O	3:C:793:LEU:N	2.40	0.54
3:C:920:GLU:HA	3:C:923:LYS:CE	2.38	0.54
4:D:561:ARG:CG	4:D:564:LYS:HE2	2.37	0.54
1:E:182:ARG:O	1:E:186:VAL:HG23	2.08	0.54
2:F:237:LEU:O	2:F:240:VAL:HG12	2.07	0.54
2:F:443:HIS:HE1	2:F:445:ASN:H	1.55	0.54
3:G:1342:TYR:HB3	4:H:519:ALA:CB	2.36	0.54
3:G:1416:LYS:O	3:G:1420:GLN:HB2	2.08	0.54
3:G:636:GLY:HA2	3:G:752:ILE:HG21	1.89	0.54
3:G:543:SER:CB	3:G:749:ALA:HB2	2.35	0.54
4:H:227:LEU:O	4:H:231:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:547:PHE:CD1	4:H:547:PHE:C	2.80	0.54
2:B:150:GLN:C	2:B:151:PHE:CD1	2.81	0.54
2:B:264:THR:OG1	2:B:265:GLN:N	2.38	0.54
2:B:280:SER:N	2:B:284:PHE:HE1	2.06	0.54
2:B:355:LYS:NZ	3:C:1247:ARG:NH2	2.56	0.54
3:C:990:MET:O	3:C:993:LYS:HB3	2.08	0.54
4:D:306:GLY:CA	4:D:317:THR:HG23	2.25	0.54
3:C:1328:ASN:ND2	4:D:398:PHE:CZ	2.75	0.54
4:D:445:LEU:HB3	4:D:450:LYS:NZ	2.23	0.54
4:D:540:ILE:O	4:D:541:PRO:O	2.26	0.54
1:E:159:TYR:HD2	1:E:330:ILE:O	1.90	0.54
2:F:308:GLN:HE22	2:F:383:GLY:H	1.56	0.54
3:G:1221:ALA:O	3:G:1224:CYS:N	2.37	0.54
3:G:743:GLU:HG2	3:G:744:HIS:N	2.23	0.54
3:G:921:ARG:HH22	3:G:945:ARG:NE	2.05	0.54
1:A:136:THR:HA	1:A:139:ILE:HD12	1.88	0.54
1:A:108:PHE:HZ	1:A:185:ILE:CG2	2.21	0.54
1:A:202:VAL:CG1	1:A:298:LEU:HD12	2.38	0.54
1:A:157:TRP:HB3	1:A:334:ILE:CD1	2.37	0.54
1:A:393:LYS:NZ	1:A:396:GLU:HB3	2.23	0.54
2:B:135:LEU:O	2:B:140:ILE:HD11	2.08	0.54
2:B:449:CYS:O	2:B:452:GLN:N	2.35	0.54
3:C:1201:GLN:NE2	3:C:1203:ASN:OD1	2.38	0.54
3:C:1224:CYS:HA	3:C:1227:ILE:HD12	1.89	0.54
3:C:1389:TYR:CD2	3:C:1389:TYR:C	2.81	0.54
3:C:790:PHE:HA	3:C:793:LEU:HD12	1.90	0.54
3:C:903:ASP:OD1	3:C:905:SER:N	2.38	0.54
4:D:198:CYS:HB3	4:D:199:PRO:HD2	1.90	0.54
4:D:511:LEU:HD12	4:D:512:TYR:N	2.23	0.54
3:G:1431:ARG:O	3:G:1435:ASN:ND2	2.41	0.54
3:G:557:ILE:HG13	3:G:650:ARG:HG3	1.89	0.54
3:G:793:LEU:O	3:G:797:TYR:CD1	2.57	0.54
2:B:164:GLN:HE22	2:B:176:LEU:HD12	1.71	0.54
3:C:1019:PHE:O	3:C:1021:LEU:N	2.40	0.54
3:C:1095:VAL:HG13	3:C:1112:ILE:HG23	1.89	0.54
3:C:1135:ILE:HG22	3:C:1136:ASN:N	2.23	0.54
3:C:1332:MET:HA	3:C:1335:ARG:HG3	1.89	0.54
3:C:364:LYS:HZ1	3:C:538:VAL:H	1.56	0.54
3:C:750:LYS:O	3:C:753:LEU:N	2.39	0.54
3:C:764:LEU:O	3:C:768:ILE:HG13	2.08	0.54
4:D:411:GLU:C	4:D:413:THR:N	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:424:PRO:HG2	4:D:458:GLU:CB	2.38	0.54
4:D:571:PHE:HD2	4:D:571:PHE:H	1.56	0.54
1:E:213:ARG:O	1:E:217:ASN:ND2	2.41	0.54
1:E:47:PHE:CE1	1:E:78:ILE:HG23	2.43	0.54
1:E:51:ASP:O	1:E:52:ASP:CB	2.56	0.54
2:F:324:LEU:O	2:F:328:LYS:HB2	2.08	0.54
2:F:320:LEU:HA	2:F:353:PHE:CD1	2.43	0.54
3:G:1018:VAL:O	3:G:1021:LEU:HB3	2.08	0.54
3:G:1186:LEU:CD2	3:G:1190:GLN:OE1	2.56	0.54
3:G:344:TYR:CE2	3:G:497:CYS:HA	2.42	0.54
3:G:925:VAL:CG2	3:G:945:ARG:HD3	2.37	0.54
3:G:978:TYR:HA	3:G:981:ARG:NH2	2.23	0.54
3:G:982:GLU:HG2	3:G:983:ILE:N	2.22	0.54
4:H:257:ILE:HG22	4:H:258:GLY:N	2.20	0.54
1:A:82:ALA:HB1	1:A:103:GLU:O	2.07	0.53
1:A:259:PHE:CE2	1:A:271:HIS:HB3	2.41	0.53
2:B:114:GLU:HG3	2:B:114:GLU:O	2.07	0.53
3:C:388:TYR:O	3:C:476:VAL:HA	2.07	0.53
3:C:578:PRO:HB2	3:C:753:LEU:CD2	2.38	0.53
3:C:607:VAL:HG23	3:C:607:VAL:O	2.07	0.53
4:D:257:ILE:HG12	4:D:302:VAL:HG11	1.90	0.53
2:F:101:ILE:O	2:F:102:SER:C	2.47	0.53
2:F:215:VAL:O	2:F:219:LEU:HG	2.08	0.53
2:F:341:PHE:CE1	2:F:345:TYR:HB2	2.43	0.53
2:F:445:ASN:O	2:F:448:PHE:N	2.41	0.53
2:F:47:ILE:HD11	3:G:1266:GLN:HB3	1.88	0.53
4:H:170:VAL:HG13	4:H:594:GLN:HG3	1.90	0.53
4:H:443:SER:O	4:H:445:LEU:N	2.41	0.53
1:A:228:LEU:HB3	1:A:266:LEU:HD23	1.89	0.53
1:A:207:LYS:HZ2	2:B:172:SER:HA	1.69	0.53
2:B:293:LYS:HE2	2:B:297:GLU:HG3	1.90	0.53
3:C:345:TRP:C	3:C:346:LEU:HG	2.28	0.53
3:C:378:VAL:HA	3:C:518:ALA:O	2.08	0.53
3:C:413:VAL:HA	3:C:472:THR:CB	2.38	0.53
4:D:303:ILE:HG22	4:D:320:TYR:HD1	1.73	0.53
4:D:346:CYS:HA	4:D:378:PHE:HB2	1.89	0.53
4:D:469:PHE:CE2	4:D:537:VAL:HG11	2.42	0.53
2:F:370:ILE:HG22	2:F:370:ILE:O	2.07	0.53
3:G:1000:TYR:CG	3:G:1001:GLY:N	2.76	0.53
3:G:857:LEU:HD12	3:G:1018:VAL:CG1	2.38	0.53
3:G:1094:PHE:CZ	3:G:1115:ARG:HG2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1128:VAL:HG11	3:G:1133:PHE:CE2	2.43	0.53
3:G:1149:LYS:O	3:G:1151:SER:N	2.41	0.53
3:G:1198:LEU:CG	3:G:1199:GLN:N	2.71	0.53
3:G:1231:ASP:O	3:G:1232:ALA:C	2.46	0.53
4:H:576:LEU:O	4:H:577:ARG:HB2	2.08	0.53
1:A:208:ILE:HG23	1:A:212:ILE:CG2	2.37	0.53
2:B:97:ARG:O	2:B:98:ARG:C	2.45	0.53
3:C:1277:GLU:OE1	3:C:1336:ARG:NH2	2.41	0.53
3:C:858:LEU:HD12	3:C:1007:MET:N	2.23	0.53
3:G:862:ASN:ND2	3:G:1039:ASP:HB2	2.22	0.53
3:G:380:VAL:HG12	3:G:523:PRO:HG3	1.91	0.53
4:H:422:PHE:CD2	4:H:422:PHE:N	2.77	0.53
1:A:255:LEU:HD21	1:A:272:LEU:HA	1.90	0.53
1:A:336:LEU:HD23	1:A:339:VAL:HG22	1.89	0.53
2:B:309:TYR:CE2	2:B:313:LEU:HD11	2.43	0.53
3:C:1078:ASP:N	3:C:1078:ASP:OD2	2.41	0.53
3:C:1294:ASN:ND2	3:C:1296:PHE:H	2.03	0.53
3:C:1395:TYR:HA	3:C:1398:ILE:CD1	2.35	0.53
3:C:549:ASN:OD1	3:C:552:ASN:C	2.47	0.53
3:C:625:LYS:HB3	3:C:629:ILE:HD11	1.90	0.53
3:C:637:HIS:CE1	3:C:708:LEU:H	2.26	0.53
3:C:851:PHE:HD2	3:C:1105:ARG:HG3	1.72	0.53
3:C:977:THR:O	3:C:981:ARG:NH1	2.42	0.53
4:D:256:GLN:N	4:D:272:LEU:HD11	2.23	0.53
4:D:367:ILE:HG23	4:D:375:CYS:SG	2.48	0.53
2:F:265:GLN:CG	2:F:266:GLY:N	2.69	0.53
2:F:441:LEU:HD21	2:F:447:PHE:HD1	1.74	0.53
3:G:1219:VAL:O	3:G:1220:VAL:C	2.47	0.53
3:G:360:PHE:CE2	3:G:379:MET:HG3	2.42	0.53
3:G:409:SER:O	3:G:412:ASP:HB2	2.09	0.53
3:G:780:LEU:O	3:G:780:LEU:HD23	2.08	0.53
4:H:495:PHE:N	4:H:495:PHE:CD1	2.74	0.53
1:A:204:LEU:HB3	1:A:208:ILE:HD11	1.90	0.53
1:A:62:ASN:OD1	1:A:64:SER:HB3	2.09	0.53
2:B:265:GLN:HG2	2:B:266:GLY:N	2.17	0.53
2:B:337:ASP:OD1	2:B:339:ASP:N	2.40	0.53
2:B:428:PHE:HD2	2:B:437:CYS:HB2	1.73	0.53
2:F:300:HIS:CG	2:F:301:LEU:N	2.76	0.53
3:G:1019:PHE:C	3:G:1021:LEU:N	2.60	0.53
3:G:1376:LYS:O	3:G:1376:LYS:HD3	2.07	0.53
3:G:1389:TYR:OH	3:G:1447:SER:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:479:THR:OG1	3:G:480:ASN:N	2.42	0.53
3:G:543:SER:OG	3:G:748:ASP:CB	2.57	0.53
3:G:589:PRO:HG3	3:G:592:CYS:CB	2.39	0.53
3:G:664:ARG:HG3	3:G:688:ARG:HE	1.73	0.53
3:G:489:MET:HG3	3:G:797:TYR:CZ	2.44	0.53
4:H:430:HIS:CD2	4:H:440:PHE:HE1	2.26	0.53
4:H:403:LYS:NZ	4:H:442:TYR:HD1	2.07	0.53
4:H:170:VAL:HG13	4:H:594:GLN:CG	2.38	0.53
1:A:393:LYS:HG3	1:A:397:HIS:NE2	2.23	0.53
3:C:1116:LEU:HA	3:C:1119:ILE:HG13	1.90	0.53
4:D:251:VAL:O	4:D:305:GLU:HA	2.09	0.53
1:E:140:ARG:O	1:E:144:ARG:CB	2.54	0.53
3:G:1113:GLN:HG3	3:G:1238:TRP:CE2	2.43	0.53
3:G:598:PHE:CE1	3:G:739:LEU:CD2	2.92	0.53
3:G:880:GLN:O	3:G:899:PRO:HB3	2.08	0.53
4:H:196:LEU:HG	4:H:197:GLY:N	2.24	0.53
4:H:346:CYS:HA	4:H:378:PHE:HB2	1.91	0.53
4:H:548:VAL:CG2	4:H:557:VAL:HG22	2.34	0.53
1:A:294:TRP:HD1	1:A:297:MET:SD	2.32	0.53
1:A:43:ARG:HD3	1:A:44:GLU:N	2.24	0.53
3:C:1025:VAL:O	3:C:1026:LYS:C	2.47	0.53
3:C:1147:PRO:C	3:C:1149:LYS:N	2.62	0.53
3:C:1231:ASP:OD1	3:C:1233:VAL:N	2.42	0.53
3:C:1307:LEU:HB3	3:C:1320:LEU:CD2	2.37	0.53
3:C:695:ILE:CD1	3:C:781:MET:O	2.55	0.53
3:C:867:SER:O	3:C:870:GLN:HB2	2.09	0.53
1:E:111:ASP:OD1	1:E:163:ARG:HG3	2.09	0.53
2:F:78:LEU:HD12	2:F:130:PHE:CE2	2.44	0.53
2:F:248:PRO:C	2:F:249:LEU:HD23	2.29	0.53
3:G:588:LYS:HA	3:G:732:TYR:OH	2.09	0.53
3:G:668:SER:HB2	3:G:669:ASN:ND2	2.23	0.53
3:G:935:ASN:HD21	3:G:937:ASP:CB	2.08	0.53
4:H:253:LEU:CD2	4:H:253:LEU:H	2.21	0.53
4:H:411:GLU:C	4:H:413:THR:H	2.12	0.53
4:H:510:PRO:O	4:H:511:LEU:C	2.47	0.53
4:H:569:GLY:C	4:H:570:THR:CG2	2.77	0.53
2:B:67:THR:O	2:B:71:GLN:HG2	2.09	0.53
3:C:1307:LEU:HD22	3:C:1430:TYR:HE2	1.67	0.53
3:C:363:GLY:O	3:C:364:LYS:CG	2.56	0.53
3:C:539:VAL:HG21	3:C:568:PHE:CD2	2.44	0.53
3:C:693:VAL:HG11	3:C:755:ILE:CG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:751:PHE:HD1	3:C:751:PHE:H	1.54	0.53
2:F:22:TYR:N	2:F:84:SER:OG	2.41	0.53
2:F:23:PRO:O	2:F:25:CYS:N	2.36	0.53
2:F:387:ARG:HH12	3:G:995:ASN:HA	1.74	0.53
3:G:631:PRO:CA	3:G:688:ARG:HH12	2.21	0.53
3:G:513:TRP:CZ3	3:G:661:LYS:HG2	2.43	0.53
3:G:856:ILE:HG21	3:G:999:ILE:HD11	1.91	0.53
4:H:503:LEU:HD21	4:H:534:THR:HG23	1.90	0.53
1:A:106:LEU:HB3	1:A:169:VAL:CB	2.36	0.53
1:A:137:MET:O	1:A:141:ILE:CG1	2.57	0.53
1:A:192:VAL:CG2	1:A:302:PHE:CD1	2.92	0.53
1:A:313:ILE:O	1:A:313:ILE:HG12	2.09	0.53
2:B:132:PHE:HE1	2:B:140:ILE:HG23	1.74	0.53
2:B:427:TYR:CD1	2:B:427:TYR:C	2.82	0.53
3:C:1362:LEU:N	3:C:1362:LEU:CD1	2.71	0.53
3:C:616:ARG:O	3:C:616:ARG:HG2	2.09	0.53
4:D:218:GLU:HA	4:D:218:GLU:OE1	2.09	0.53
4:D:307:ILE:O	4:D:315:VAL:CG2	2.57	0.53
4:D:357:TYR:O	4:D:360:LEU:CB	2.57	0.53
1:E:60:PHE:HB3	1:E:65:ASP:CB	2.38	0.53
2:F:178:LEU:HD11	2:F:183:ILE:HD11	1.90	0.53
3:G:539:VAL:CG1	3:G:540:MET:N	2.71	0.53
4:H:357:TYR:CD1	4:H:357:TYR:N	2.76	0.53
1:A:349:THR:HG22	1:A:351:SER:N	2.23	0.53
2:B:77:GLU:O	2:B:78:LEU:C	2.47	0.53
3:C:1120:GLY:O	3:C:1123:VAL:HB	2.09	0.53
3:C:1370:LEU:O	3:C:1371:CYS:C	2.47	0.53
3:C:1397:TYR:C	3:C:1397:TYR:CD1	2.81	0.53
3:C:1430:TYR:O	3:C:1432:LYS:N	2.42	0.53
3:C:539:VAL:HG21	3:C:568:PHE:HD2	1.72	0.53
3:C:724:PRO:HB2	3:C:726:GLU:CG	2.27	0.53
3:C:747:LYS:O	3:C:750:LYS:HB3	2.08	0.53
3:C:849:VAL:HG13	3:C:1226:PRO:HB3	1.91	0.53
3:C:858:LEU:HD12	3:C:1007:MET:CA	2.38	0.53
4:D:376:ILE:HG12	4:D:421:VAL:HG11	1.91	0.53
1:E:112:MET:SD	1:E:119:ARG:CZ	2.97	0.53
1:E:204:LEU:HD22	1:E:208:ILE:CD1	2.39	0.53
1:E:26:TYR:CZ	1:E:80:ILE:HD11	2.44	0.53
1:E:41:GLN:H	1:E:41:GLN:NE2	2.06	0.53
1:E:55:ILE:CD1	1:E:56:ARG:H	2.21	0.53
2:F:158:GLU:CD	2:F:162:ARG:HH21	2.12	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1355:ASN:OD1	3:G:1355:ASN:C	2.46	0.53
3:G:618:LEU:HD23	3:G:619:LEU:HD23	1.90	0.53
3:G:745:THR:CG2	3:G:746:TRP:N	2.70	0.53
3:G:872:PHE:O	3:G:873:ASN:C	2.46	0.53
4:H:174:PHE:CD1	4:H:175:GLY:N	2.77	0.53
4:H:539:ILE:O	4:H:541:PRO:HD3	2.08	0.53
1:A:114:ASP:O	1:A:304:ARG:NH1	2.42	0.52
1:A:135:MET:CE	1:A:164:GLY:HA2	2.38	0.52
2:B:154:ILE:HG22	2:B:158:GLU:OE1	2.09	0.52
3:C:1151:SER:HA	3:C:1189:SER:HB3	1.90	0.52
3:C:1372:PRO:HA	3:C:1375:MET:HE2	1.90	0.52
1:E:158:VAL:HG12	1:E:159:TYR:N	2.25	0.52
2:F:240:VAL:C	2:F:242:SER:N	2.61	0.52
2:F:371:ILE:HD11	2:F:384:CYS:SG	2.49	0.52
2:F:83:PHE:HE2	2:F:99:ASP:HA	1.74	0.52
3:G:1221:ALA:C	3:G:1223:ILE:N	2.61	0.52
3:G:1364:PHE:HB2	4:H:217:ARG:NE	2.15	0.52
3:G:637:HIS:CE1	3:G:708:LEU:H	2.26	0.52
3:G:868:ILE:HG23	3:G:872:PHE:CD2	2.44	0.52
1:A:174:VAL:HA	1:A:177:LEU:HG	1.90	0.52
1:A:222:TYR:N	1:A:222:TYR:CD1	2.77	0.52
2:B:132:PHE:CE1	2:B:140:ILE:HG23	2.43	0.52
2:B:433:ASN:C	2:B:434:VAL:CG1	2.78	0.52
2:B:355:LYS:NZ	3:C:1247:ARG:HH22	2.07	0.52
3:C:1400:ASP:HA	3:C:1434:LYS:CD	2.38	0.52
3:C:437:LYS:HD3	3:C:800:ASN:HD22	1.74	0.52
4:D:430:HIS:NE2	4:D:440:PHE:HE1	2.07	0.52
4:D:561:ARG:H	4:D:564:LYS:HE2	1.74	0.52
4:D:427:ARG:HH12	4:D:561:ARG:HH12	1.57	0.52
3:G:1006:ILE:HG22	3:G:1006:ILE:O	2.09	0.52
2:B:136:PRO:C	2:B:138:ASP:H	2.11	0.52
2:B:47:ILE:HG21	2:B:260:GLN:NE2	2.24	0.52
2:B:26:LEU:HB3	2:B:143:PHE:CE2	2.45	0.52
2:B:27:GLN:NE2	2:B:29:TYR:CD2	2.78	0.52
3:C:1081:ARG:HB3	3:C:1083:ASP:OD1	2.09	0.52
3:C:1216:ILE:N	3:C:1216:ILE:CD1	2.72	0.52
3:C:395:LYS:CA	3:C:408:ILE:HD11	2.39	0.52
3:C:612:ALA:HB1	3:C:617:THR:CB	2.38	0.52
1:E:334:ILE:HG12	1:E:342:PHE:CE2	2.44	0.52
1:E:401:ASN:HD22	1:E:401:ASN:N	2.06	0.52
1:E:49:LEU:HB3	1:E:50:LYS:CE	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:307:MET:O	2:F:311:LEU:HG	2.09	0.52
3:G:1025:VAL:O	3:G:1026:LYS:C	2.47	0.52
3:G:1141:LYS:HB2	3:G:1146:TYR:CD1	2.44	0.52
3:G:1142:ASP:O	3:G:1145:ASP:N	2.42	0.52
3:G:1211:TYR:CA	3:G:1215:GLN:HB2	2.37	0.52
3:G:437:LYS:CG	3:G:802:ILE:HD11	2.40	0.52
4:H:577:ARG:O	4:H:591:ILE:HD11	2.10	0.52
1:A:112:MET:CB	1:A:163:ARG:HB2	2.39	0.52
1:A:334:ILE:HG12	1:A:342:PHE:CE1	2.43	0.52
3:C:1221:ALA:C	3:C:1223:ILE:N	2.63	0.52
3:C:1334:ILE:HD13	3:C:1392:LEU:HD22	1.91	0.52
3:C:651:ILE:HD11	3:C:659:TRP:HA	1.90	0.52
3:C:659:TRP:N	3:C:659:TRP:CD1	2.77	0.52
3:C:716:LEU:HG	3:C:755:ILE:CG1	2.40	0.52
3:G:1141:LYS:HB2	3:G:1146:TYR:CE1	2.44	0.52
3:G:1158:ALA:CA	3:G:1161:ILE:HD12	2.37	0.52
3:G:635:VAL:HG11	3:G:756:MET:CE	2.39	0.52
4:H:271:ILE:HD12	4:H:272:LEU:C	2.29	0.52
1:A:13:LEU:HD22	1:A:17:TYR:CE2	2.43	0.52
2:B:285:PRO:HB2	2:B:286:PRO:CD	2.40	0.52
2:B:387:ARG:HA	2:B:420:TYR:CD1	2.43	0.52
2:B:410:GLN:O	2:B:414:LEU:HG	2.08	0.52
3:C:1097:GLY:O	3:C:1100:LEU:N	2.42	0.52
3:C:1074:LEU:HD21	3:C:1100:LEU:HD11	1.91	0.52
3:C:1431:ARG:O	3:C:1435:ASN:CG	2.48	0.52
3:C:382:ASN:HD21	3:C:521:LEU:HD22	1.75	0.52
4:D:202:LEU:C	4:D:202:LEU:HD23	2.30	0.52
1:E:349:THR:CG2	1:E:351:SER:HB3	2.40	0.52
1:E:156:LEU:CD2	1:E:395:PHE:HE1	2.22	0.52
1:E:56:ARG:HD3	1:E:57:TYR:HE2	1.73	0.52
2:F:265:GLN:HB2	2:F:362:TYR:CZ	2.44	0.52
2:F:87:GLU:HB3	2:F:93:TYR:HE1	1.75	0.52
3:G:1083:ASP:OD1	3:G:1083:ASP:N	2.43	0.52
3:G:1216:ILE:H	3:G:1216:ILE:CD1	2.23	0.52
3:G:1304:GLU:OE2	3:G:1309:ARG:HD2	2.10	0.52
3:G:1363:GLN:CD	3:G:1370:LEU:HD23	2.30	0.52
3:G:543:SER:HB2	3:G:749:ALA:CB	2.37	0.52
3:G:549:ASN:OD1	3:G:552:ASN:C	2.48	0.52
3:G:792:LEU:HD21	3:G:956:MET:CE	2.39	0.52
4:H:157:PRO:HB3	4:H:354:SER:CB	2.36	0.52
1:A:106:LEU:O	1:A:169:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:174:VAL:HG13	1:A:177:LEU:HD11	1.91	0.52
1:A:228:LEU:HD21	1:A:233:ILE:HD11	1.92	0.52
1:A:233:ILE:HD12	1:A:243:ILE:CD1	2.39	0.52
1:A:27:TYR:CB	1:A:63:GLN:HG3	2.39	0.52
2:B:358:LYS:O	2:B:359:ARG:CB	2.58	0.52
2:B:385:PRO:O	2:B:387:ARG:N	2.43	0.52
3:C:1035:LEU:O	3:C:1036:LEU:C	2.47	0.52
3:C:1116:LEU:HD12	3:C:1116:LEU:N	2.23	0.52
3:C:1340:LYS:HA	3:C:1343:ASP:OD2	2.09	0.52
3:C:859:LEU:HB3	3:C:1038:ILE:HD11	1.92	0.52
3:C:864:LEU:C	3:C:866:PRO:CD	2.78	0.52
4:D:270:VAL:CG1	4:D:271:ILE:N	2.73	0.52
4:D:414:ARG:NH1	4:D:414:ARG:HG3	2.24	0.52
4:D:574:LEU:CD1	4:D:574:LEU:N	2.70	0.52
4:D:578:ARG:NH2	4:D:589:PRO:HG3	2.25	0.52
3:G:790:PHE:O	3:G:793:LEU:N	2.43	0.52
4:H:575:TYR:C	4:H:576:LEU:HD23	2.29	0.52
1:A:330:ILE:O	1:A:332:VAL:HG13	2.10	0.52
2:B:136:PRO:HG2	2:B:139:LYS:HG2	1.92	0.52
2:B:295:LEU:HD11	2:B:330:GLU:HG3	1.91	0.52
2:B:355:LYS:HZ2	3:C:1247:ARG:HH22	1.58	0.52
3:C:1345:TRP:CZ3	3:C:1358:ARG:HG3	2.45	0.52
3:C:389:PHE:CD2	3:C:476:VAL:HB	2.44	0.52
3:C:712:VAL:HG12	3:C:718:THR:O	2.09	0.52
4:D:431:HIS:CE1	4:D:438:PRO:HG2	2.45	0.52
1:E:196:GLN:H	1:E:196:GLN:CD	2.13	0.52
3:G:1366:ARG:HH11	3:G:1366:ARG:HG3	1.75	0.52
3:G:433:LYS:O	3:G:454:GLU:HB3	2.09	0.52
3:G:468:LEU:HG	3:G:473:PHE:CZ	2.45	0.52
3:G:586:VAL:HB	3:G:742:LEU:HD21	1.92	0.52
3:G:796:PHE:CE1	3:G:910:ILE:HG12	2.45	0.52
1:A:177:LEU:H	1:A:182:ARG:HH21	1.55	0.52
1:A:21:PHE:HE2	1:A:321:PHE:O	1.93	0.52
1:A:393:LYS:HE3	1:A:396:GLU:CB	2.35	0.52
2:B:358:LYS:O	2:B:359:ARG:HB2	2.10	0.52
2:B:368:LEU:O	2:B:368:LEU:HD23	2.10	0.52
3:C:1247:ARG:O	3:C:1250:HIS:HB3	2.10	0.52
3:C:876:PHE:HB3	3:C:881:ARG:HH22	1.75	0.52
4:D:213:LEU:N	4:D:214:PRO:CD	2.72	0.52
4:D:224:ILE:HG23	4:D:301:VAL:HG13	1.90	0.52
1:E:290:PRO:O	1:E:291:TRP:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:38:SER:C	2:F:40:ILE:H	2.12	0.52
3:G:1132:GLN:C	3:G:1133:PHE:HD2	2.13	0.52
3:G:1385:ASP:N	3:G:1385:ASP:OD1	2.41	0.52
3:G:1388:LEU:HD21	4:H:209:MET:CE	2.40	0.52
3:G:468:LEU:HG	3:G:473:PHE:CE2	2.45	0.52
4:H:297:PHE:HD1	4:H:298:PRO:O	1.92	0.52
1:A:95:LYS:HE3	3:C:880:GLN:HA	1.91	0.52
2:B:105:ILE:CG2	2:B:106:LEU:N	2.72	0.52
2:B:37:ILE:O	3:C:1449:VAL:HG23	2.10	0.52
2:B:410:GLN:O	2:B:413:ASP:HB2	2.08	0.52
3:C:1139:LEU:HD11	3:C:1154:HIS:HD2	1.75	0.52
3:C:1395:TYR:HA	3:C:1398:ILE:CG1	2.39	0.52
3:C:363:GLY:O	3:C:364:LYS:HG3	2.10	0.52
3:C:631:PRO:CD	3:C:688:ARG:NH1	2.73	0.52
3:C:858:LEU:HD13	3:C:1007:MET:HE3	1.92	0.52
3:C:911:LEU:O	3:C:911:LEU:HD12	2.10	0.52
3:C:935:ASN:ND2	3:C:937:ASP:HB2	2.02	0.52
4:D:469:PHE:CZ	4:D:574:LEU:HD22	2.43	0.52
1:E:222:TYR:CD1	1:E:222:TYR:N	2.77	0.52
1:E:13:LEU:HD13	1:E:75:PRO:O	2.10	0.52
2:F:77:GLU:C	2:F:79:ARG:N	2.61	0.52
3:G:1370:LEU:O	3:G:1371:CYS:C	2.48	0.52
3:G:381:LYS:O	3:G:523:PRO:HD3	2.10	0.52
3:G:464:LEU:HD13	3:G:468:LEU:HD22	1.92	0.52
3:G:875:CYS:N	3:G:878:THR:OG1	2.43	0.52
3:G:788:ASN:HB3	3:G:956:MET:CE	2.40	0.52
1:A:135:MET:SD	1:A:165:VAL:HG22	2.50	0.52
1:A:264:ASN:O	1:A:268:ARG:HG3	2.10	0.52
2:B:137:LYS:O	2:B:141:GLN:HG3	2.09	0.52
3:C:1047:LEU:CG	3:C:1049:LEU:HD22	2.33	0.52
3:C:1094:PHE:CD1	3:C:1094:PHE:C	2.83	0.52
3:C:1151:SER:C	3:C:1189:SER:HB3	2.30	0.52
3:C:1221:ALA:O	3:C:1224:CYS:N	2.42	0.52
3:C:1230:ILE:HD12	3:C:1238:TRP:CH2	2.45	0.52
3:C:1268:THR:OG1	3:C:1271:GLU:HG2	2.10	0.52
3:C:1422:PHE:CD2	3:C:1422:PHE:N	2.78	0.52
3:C:1427:LEU:HB3	3:C:1431:ARG:NH2	2.23	0.52
3:C:458:SER:OG	3:C:461:MET:HG3	2.10	0.52
3:C:364:LYS:CE	3:C:632:ASP:OD1	2.57	0.52
3:C:864:LEU:O	3:C:868:ILE:HG13	2.10	0.52
4:D:510:PRO:HG2	4:D:511:LEU:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:208:ILE:HG22	1:E:213:ARG:HB2	1.91	0.52
1:E:49:LEU:HD13	1:E:50:LYS:HZ2	1.75	0.52
2:F:310:GLY:HA2	2:F:327:TRP:HZ2	1.75	0.52
2:F:358:LYS:O	2:F:359:ARG:HB2	2.10	0.52
3:G:1217:HIS:O	3:G:1218:PRO:C	2.47	0.52
3:G:723:ILE:HD12	3:G:741:LEU:CD1	2.40	0.52
3:G:932:GLN:HE21	3:G:933:ASP:N	2.07	0.52
4:H:257:ILE:HG13	4:H:296:LEU:HD22	1.92	0.52
1:A:293:GLU:O	1:A:297:MET:HG3	2.10	0.51
1:A:95:LYS:NZ	3:C:881:ARG:N	2.57	0.51
3:C:1236:ALA:HB2	3:C:1246:PHE:CZ	2.45	0.51
3:C:1250:HIS:ND1	3:C:1251:TYR:N	2.58	0.51
3:C:1345:TRP:CZ3	3:C:1358:ARG:HB2	2.41	0.51
3:C:1279:PHE:CB	3:C:1395:TYR:HE1	2.03	0.51
3:C:413:VAL:HG22	3:C:472:THR:HB	1.92	0.51
3:C:585:VAL:CG2	3:C:618:LEU:HG	2.40	0.51
3:C:740:TYR:O	3:C:743:GLU:HB3	2.10	0.51
3:C:920:GLU:HA	3:C:923:LYS:CD	2.40	0.51
4:D:426:LEU:N	4:D:437:GLN:HE22	2.07	0.51
2:F:358:LYS:O	2:F:359:ARG:CB	2.58	0.51
2:F:390:ASP:OD1	2:F:390:ASP:C	2.49	0.51
3:G:1340:LYS:O	3:G:1341:TYR:C	2.49	0.51
3:G:1405:LEU:HD23	3:G:1408:LEU:HD23	1.91	0.51
3:G:1445:GLY:O	3:G:1446:TYR:C	2.47	0.51
3:G:398:LEU:HD12	3:G:470:GLY:HA2	1.91	0.51
3:G:568:PHE:HE1	3:G:575:PRO:CD	2.17	0.51
3:G:946:GLN:HE22	3:G:947:LYS:CG	2.21	0.51
4:H:232:LYS:HD2	4:H:240:PHE:CE2	2.45	0.51
1:A:354:CYS:O	1:A:358:ASP:OD2	2.28	0.51
2:B:308:GLN:OE1	2:B:370:ILE:HD13	2.09	0.51
3:C:1133:PHE:O	3:C:1211:TYR:OH	2.22	0.51
3:C:438:ASN:OD1	3:C:449:LYS:HE3	2.09	0.51
3:C:865:TYR:N	3:C:866:PRO:HD3	2.25	0.51
4:D:357:TYR:CD2	4:D:405:CYS:SG	3.03	0.51
1:E:143:ASP:HB2	1:E:157:TRP:CZ2	2.45	0.51
1:E:55:ILE:HG13	1:E:56:ARG:N	2.25	0.51
2:F:296:ARG:NH2	2:F:333:LYS:NZ	2.58	0.51
3:G:1034:LYS:HD2	3:G:1034:LYS:N	2.25	0.51
3:G:1095:VAL:O	3:G:1096:ILE:C	2.48	0.51
3:G:1147:PRO:C	3:G:1149:LYS:N	2.63	0.51
3:G:1177:TYR:CD1	3:G:1177:TYR:C	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:417:PHE:CD1	3:G:421:ILE:HB	2.45	0.51
3:G:560:MET:CE	3:G:647:LEU:HD11	2.40	0.51
3:G:762:LEU:CD2	3:G:762:LEU:N	2.74	0.51
3:G:771:ILE:HD13	3:G:949:LEU:HD23	1.92	0.51
3:G:978:TYR:C	3:G:980:GLY:N	2.61	0.51
4:H:157:PRO:O	4:H:158:SER:OG	2.25	0.51
2:B:101:ILE:HG22	2:B:102:SER:N	2.24	0.51
2:B:159:LYS:HD3	2:B:160:THR:N	2.25	0.51
2:B:240:VAL:C	2:B:242:SER:N	2.61	0.51
3:C:1019:PHE:CE1	3:C:1040:ILE:HG21	2.46	0.51
3:C:631:PRO:HD2	3:C:688:ARG:NH1	2.25	0.51
3:C:984:LEU:O	3:C:984:LEU:HD12	2.09	0.51
1:E:152:PHE:CD2	1:E:169:VAL:HG11	2.45	0.51
1:E:158:VAL:CG1	1:E:159:TYR:N	2.73	0.51
1:E:150:PHE:CE2	1:E:185:ILE:HG12	2.44	0.51
1:E:131:CYS:HA	1:E:226:TYR:CE1	2.45	0.51
1:E:338:LYS:O	1:E:338:LYS:CG	2.59	0.51
1:E:66:LEU:HD11	1:E:70:MET:CE	2.41	0.51
2:F:358:LYS:HE2	3:G:1274:ARG:NH1	2.20	0.51
3:G:589:PRO:HG2	3:G:592:CYS:H	1.76	0.51
3:G:851:PHE:CE2	3:G:1108:ILE:HD12	2.45	0.51
3:G:903:ASP:CG	3:G:905:SER:HB3	2.30	0.51
1:A:259:PHE:N	1:A:259:PHE:HD2	2.07	0.51
2:B:121:ILE:HG12	2:B:226:LEU:CD2	2.39	0.51
3:C:1022:GLY:O	3:C:1025:VAL:HB	2.11	0.51
3:C:350:GLU:OE2	3:C:484:LEU:CB	2.59	0.51
3:C:557:ILE:O	3:C:557:ILE:HG22	2.10	0.51
3:C:598:PHE:CE1	3:C:738:LEU:HB3	2.46	0.51
3:C:659:TRP:HZ2	3:C:667:ARG:HB2	1.74	0.51
3:C:752:ILE:O	3:C:752:ILE:HG22	2.10	0.51
3:C:716:LEU:HD11	3:C:754:GLN:CB	2.38	0.51
3:C:849:VAL:CG1	3:C:1226:PRO:HA	2.40	0.51
3:C:854:LYS:CB	3:C:1011:ASN:HA	2.41	0.51
3:C:864:LEU:HD12	3:C:868:ILE:HD11	1.92	0.51
4:D:511:LEU:HD12	4:D:511:LEU:C	2.30	0.51
1:E:37:LYS:HZ1	1:E:42:HIS:CE1	2.29	0.51
2:F:74:LEU:HD23	2:F:130:PHE:CD1	2.45	0.51
3:G:1150:LYS:O	3:G:1190:GLN:HG3	2.11	0.51
3:G:874:ILE:HD13	3:G:976:VAL:CG2	2.39	0.51
4:H:346:CYS:CA	4:H:378:PHE:HB2	2.39	0.51
1:A:128:CYS:HB2	1:A:129:PRO:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:144:ARG:NH1	1:A:211:PHE:CD2	2.62	0.51
1:A:172:GLU:HG2	1:A:175:ARG:HH21	1.74	0.51
1:A:323:VAL:CG2	1:A:350:ILE:HD12	2.29	0.51
2:B:118:ARG:NH1	2:B:118:ARG:CG	2.70	0.51
3:C:1082:ARG:HG2	3:C:1082:ARG:O	2.10	0.51
3:C:1149:LYS:O	3:C:1151:SER:N	2.44	0.51
3:C:344:TYR:N	3:C:498:TRP:CZ3	2.77	0.51
3:C:647:LEU:CD2	3:C:662:ILE:CD1	2.89	0.51
3:C:978:TYR:C	3:C:980:GLY:N	2.62	0.51
4:D:287:ASP:OD2	4:D:313:LYS:HE2	2.11	0.51
4:D:363:LEU:O	4:D:364:ILE:C	2.49	0.51
2:F:42:PHE:CG	2:F:105:ILE:HD11	2.46	0.51
2:F:171:PRO:HG2	2:F:173:LEU:HB2	1.93	0.51
2:F:258:THR:OG1	2:F:261:ASP:CB	2.52	0.51
2:F:47:ILE:HD13	2:F:260:GLN:NE2	2.26	0.51
3:G:1074:LEU:HB3	3:G:1077:LEU:HD11	1.92	0.51
3:G:599:LYS:O	3:G:603:GLU:CD	2.49	0.51
3:G:635:VAL:HG22	3:G:752:ILE:CG2	2.36	0.51
3:G:751:PHE:HA	3:G:754:GLN:HG3	1.93	0.51
3:G:869:ILE:CG2	3:G:869:ILE:O	2.57	0.51
3:G:788:ASN:HD22	3:G:956:MET:CE	2.21	0.51
4:H:295:SER:OG	4:H:501:HIS:NE2	2.38	0.51
2:B:104:PHE:CE1	2:B:107:ARG:NH2	2.76	0.51
3:C:1222:ARG:HH11	3:C:1222:ARG:CB	2.24	0.51
3:C:587:SER:OG	3:C:588:LYS:N	2.43	0.51
3:C:984:LEU:O	3:C:987:THR:HB	2.11	0.51
4:D:381:PHE:CZ	4:D:422:PHE:HD1	2.29	0.51
4:D:202:LEU:HD23	4:D:439:PRO:HD3	1.92	0.51
4:D:450:LYS:NZ	4:D:450:LYS:HA	2.26	0.51
4:D:477:LEU:CD1	4:D:540:ILE:HB	2.41	0.51
2:F:163:GLU:HG3	2:F:178:LEU:CD2	2.41	0.51
3:G:1095:VAL:C	3:G:1097:GLY:N	2.64	0.51
3:G:1160:TRP:HE3	3:G:1161:ILE:HG13	1.76	0.51
3:G:1250:HIS:HE1	3:G:1254:ASP:CB	2.24	0.51
3:G:873:ASN:OD1	3:G:908:MET:HA	2.11	0.51
3:G:955:SER:O	3:G:956:MET:C	2.48	0.51
4:H:288:LEU:O	4:H:289:SER:C	2.48	0.51
1:A:107:VAL:HA	1:A:167:CYS:O	2.10	0.51
1:A:209:HIS:CG	1:A:210:PRO:CD	2.94	0.51
1:A:295:GLU:HA	1:A:298:LEU:HD12	1.93	0.51
1:A:43:ARG:HB2	1:A:83:VAL:HG22	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:110:TYR:CZ	2:B:119:TRP:HZ3	2.29	0.51
2:B:148:GLN:O	2:B:149:LEU:HB2	2.10	0.51
2:B:258:THR:CG2	2:B:366:SER:HB2	2.40	0.51
2:B:49:ARG:CG	2:B:106:LEU:HD12	2.41	0.51
3:C:1135:ILE:HD12	3:C:1177:TYR:CE1	2.46	0.51
3:C:1266:GLN:HG3	3:C:1267:LEU:N	2.26	0.51
3:C:1445:GLY:O	3:C:1446:TYR:C	2.49	0.51
3:C:489:MET:HG3	3:C:797:TYR:CE1	2.45	0.51
3:C:843:LEU:HD11	3:C:845:LEU:HD23	1.87	0.51
3:C:978:TYR:CA	3:C:981:ARG:NH2	2.74	0.51
4:D:227:LEU:C	4:D:227:LEU:CD1	2.76	0.51
4:D:303:ILE:CG2	4:D:320:TYR:HD1	2.23	0.51
4:D:480:LEU:HD13	4:D:511:LEU:HD22	1.91	0.51
1:E:84:TYR:CD1	1:E:101:ALA:HA	2.45	0.51
1:E:1:MET:HG2	1:E:329:ARG:NH2	2.25	0.51
3:G:1141:LYS:HE3	3:G:1146:TYR:CD1	2.46	0.51
3:G:1250:HIS:CE1	3:G:1251:TYR:HB2	2.46	0.51
3:G:1272:LYS:C	3:G:1273:TYR:HD1	2.14	0.51
3:G:1409:THR:HG23	3:G:1410:THR:H	1.75	0.51
3:G:1437:ALA:O	3:G:1438:GLU:C	2.49	0.51
3:C:532:VAL:N	3:G:366:TRP:NE1	2.59	0.51
3:G:437:LYS:HZ3	3:G:800:ASN:ND2	2.09	0.51
3:G:437:LYS:HZ3	3:G:800:ASN:HD22	1.57	0.51
4:H:253:LEU:HD23	4:H:253:LEU:H	1.76	0.51
4:H:406:LEU:O	4:H:410:ILE:HG13	2.11	0.51
1:A:43:ARG:HD3	1:A:44:GLU:H	1.75	0.51
2:B:358:LYS:CG	2:B:359:ARG:H	2.19	0.51
2:B:94:GLU:CB	2:B:95:PRO:CD	2.89	0.51
3:C:1222:ARG:CG	3:C:1223:ILE:HG13	2.40	0.51
3:C:1395:TYR:O	3:C:1398:ILE:CG1	2.56	0.51
3:C:410:MET:HE1	3:C:453:LEU:CA	2.40	0.51
3:C:522:LYS:HE3	3:C:525:LEU:HD21	1.92	0.51
3:C:767:GLN:OE1	3:C:945:ARG:HG3	2.11	0.51
4:D:310:THR:CG2	4:D:312:ARG:HG2	2.41	0.51
4:D:497:ARG:O	4:D:500:LYS:N	2.44	0.51
1:E:104:LYS:O	1:E:175:ARG:HA	2.10	0.51
2:F:417:GLY:O	2:F:418:THR:CG2	2.59	0.51
3:G:1276:CYS:SG	3:G:1390:THR:CG2	2.90	0.51
3:G:564:VAL:CG1	3:G:565:HIS:H	2.23	0.51
3:G:792:LEU:HB2	3:G:967:PHE:CE1	2.46	0.51
3:G:939:ILE:CG2	3:G:940:LEU:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:308:ASN:OD1	4:H:313:LYS:O	2.28	0.51
4:H:364:ILE:HA	4:H:367:ILE:HG13	1.92	0.51
2:B:403:ILE:O	2:B:408:ILE:HG13	2.10	0.51
2:B:428:PHE:CZ	2:B:450:GLU:HB3	2.46	0.51
3:C:1018:VAL:O	3:C:1022:GLY:N	2.38	0.51
3:C:920:GLU:HA	3:C:923:LYS:HE3	1.93	0.51
3:C:939:ILE:CG2	3:C:940:LEU:N	2.73	0.51
3:C:985:MET:O	3:C:986:HIS:C	2.48	0.51
4:D:435:TYR:CB	4:D:518:MET:HE1	2.41	0.51
4:D:525:PHE:O	4:D:530:GLN:NE2	2.44	0.51
2:F:324:LEU:HD23	2:F:349:ILE:HG21	1.93	0.51
3:G:1111:ASN:HD22	3:G:1111:ASN:N	2.09	0.51
3:G:1157:VAL:HG21	3:G:1177:TYR:HB2	1.92	0.51
3:G:796:PHE:CE1	3:G:910:ILE:HG21	2.46	0.51
4:H:571:PHE:CE2	4:H:598:ILE:HD13	2.45	0.51
4:H:555:VAL:HG21	4:H:590:CYS:HB3	1.93	0.51
1:A:291:TRP:CE3	1:A:291:TRP:HA	2.46	0.51
2:B:170:SER:HB3	2:B:171:PRO:CD	2.37	0.51
3:C:1115:ARG:O	3:C:1116:LEU:C	2.50	0.51
3:C:1334:ILE:HD13	3:C:1392:LEU:CD2	2.41	0.51
3:C:351:ASP:OD2	3:C:354:ASN:HB2	2.10	0.51
4:D:354:SER:CB	4:D:356:THR:HG23	2.39	0.51
4:D:411:GLU:HG3	4:D:414:ARG:HH12	1.76	0.51
4:D:476:LEU:C	4:D:476:LEU:CD1	2.75	0.51
1:E:336:LEU:HA	1:E:339:VAL:HG22	1.93	0.51
3:G:1115:ARG:HG3	3:G:1119:ILE:HD11	1.93	0.51
3:G:489:MET:CE	3:G:793:LEU:HB3	2.41	0.51
3:G:491:ARG:CZ	3:G:524:ASP:HA	2.41	0.51
3:G:345:TRP:CD1	3:G:499:LEU:HD11	2.46	0.51
3:G:754:GLN:O	3:G:757:CYS:N	2.43	0.51
3:G:978:TYR:HD1	3:G:981:ARG:NH2	2.09	0.51
4:H:296:LEU:O	4:H:484:GLU:HG2	2.10	0.51
2:B:36:ASN:HA	3:C:1451:LEU:HG	1.92	0.50
3:C:1047:LEU:HD12	3:C:1048:LEU:N	2.26	0.50
3:C:1046:SER:HB2	3:C:1058:LEU:HD12	1.92	0.50
3:C:1345:TRP:CZ3	3:C:1358:ARG:CB	2.94	0.50
3:C:631:PRO:O	3:C:664:ARG:NH2	2.44	0.50
3:C:698:LYS:HZ1	3:C:706:TYR:HB2	1.75	0.50
3:C:734:GLU:OE1	3:C:736:SER:CB	2.56	0.50
4:D:334:ASP:HA	4:D:337:PHE:CD2	2.46	0.50
1:E:147:LYS:CG	1:E:148:GLU:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1294:ASN:N	3:G:1398:ILE:HG22	2.25	0.50
3:G:656:ALA:HB1	3:G:657:PRO:HD2	1.92	0.50
3:G:903:ASP:OD1	3:G:905:SER:HB3	2.11	0.50
4:H:259:CYS:SG	4:H:260:ASP:N	2.84	0.50
1:A:143:ASP:OD2	1:A:336:LEU:HD13	2.11	0.50
1:A:259:PHE:HB3	1:A:268:ARG:HD3	1.93	0.50
2:B:285:PRO:CA	2:B:447:PHE:CE2	2.94	0.50
2:B:441:LEU:HD12	2:B:446:GLN:OE1	2.11	0.50
3:C:564:VAL:CG1	3:C:565:HIS:H	2.24	0.50
3:C:437:LYS:HB3	3:C:802:ILE:HD11	1.93	0.50
1:E:25:GLN:HE21	1:E:396:GLU:CG	2.21	0.50
2:F:135:LEU:CB	2:F:140:ILE:HG13	2.41	0.50
2:F:143:PHE:O	2:F:147:SER:OG	2.26	0.50
2:F:295:LEU:CG	2:F:330:GLU:HG2	2.42	0.50
2:F:443:HIS:CE1	2:F:445:ASN:N	2.77	0.50
3:G:715:ILE:HG22	3:G:716:LEU:HD23	1.93	0.50
3:G:950:LYS:O	3:G:954:ASN:ND2	2.44	0.50
3:G:1148:ASP:HB2	4:H:261:SER:OG	2.11	0.50
2:B:359:ARG:C	2:B:360:THR:CG2	2.80	0.50
3:C:851:PHE:CE1	3:C:1048:LEU:HD12	2.44	0.50
3:C:1187:THR:O	3:C:1191:ARG:HG3	2.12	0.50
3:C:1328:ASN:O	3:C:1331:ILE:N	2.43	0.50
3:C:973:ALA:O	3:C:974:ALA:C	2.50	0.50
4:D:571:PHE:HE2	4:D:597:ARG:O	1.94	0.50
1:E:179:SER:HA	1:E:182:ARG:HG3	1.92	0.50
2:F:262:TYR:C	2:F:262:TYR:CD1	2.84	0.50
2:F:296:ARG:HH21	2:F:333:LYS:NZ	2.09	0.50
2:F:403:ILE:HG22	2:F:408:ILE:HG13	1.92	0.50
3:G:1063:THR:OG1	3:G:1064:SER:N	2.43	0.50
3:G:1120:GLY:O	3:G:1123:VAL:HB	2.12	0.50
3:G:1337:PHE:HD2	3:G:1391:GLN:HG2	1.70	0.50
3:G:704:LYS:N	3:G:704:LYS:CE	2.70	0.50
3:G:763:PRO:O	3:G:764:LEU:C	2.49	0.50
3:G:973:ALA:O	3:G:977:THR:HG23	2.11	0.50
4:H:243:LEU:CB	4:H:284:ILE:HD13	2.37	0.50
4:H:378:PHE:CD1	4:H:378:PHE:N	2.80	0.50
1:A:258:SER:HB3	1:A:271:HIS:CG	2.45	0.50
1:A:350:ILE:HA	1:A:353:ILE:CD1	2.41	0.50
1:A:387:SER:O	1:A:390:PRO:HD2	2.11	0.50
2:B:394:LEU:CD1	2:B:398:LEU:HD21	2.35	0.50
3:C:362:PHE:N	3:C:362:PHE:HD1	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:398:LEU:O	3:C:398:LEU:HD23	2.11	0.50
3:C:874:ILE:HD13	3:C:976:VAL:HG22	1.93	0.50
3:C:990:MET:HG2	3:C:994:MET:HE3	1.91	0.50
4:D:459:PRO:HB2	4:D:471:LEU:O	2.12	0.50
4:D:538:LEU:C	4:D:538:LEU:HD12	2.26	0.50
4:D:575:TYR:O	4:D:576:LEU:HD23	2.11	0.50
1:E:207:LYS:NZ	2:F:172:SER:HA	2.26	0.50
1:E:66:LEU:O	1:E:70:MET:HB2	2.12	0.50
2:F:171:PRO:C	2:F:173:LEU:N	2.65	0.50
2:F:359:ARG:O	2:F:360:THR:HG22	2.12	0.50
3:G:1131:SER:C	3:G:1133:PHE:N	2.65	0.50
3:G:1141:LYS:HZ1	3:G:1147:PRO:CD	2.24	0.50
3:G:1305:PRO:O	3:G:1307:LEU:N	2.45	0.50
3:G:587:SER:O	3:G:732:TYR:OH	2.27	0.50
4:H:213:LEU:N	4:H:214:PRO:CD	2.74	0.50
4:H:407:ARG:NH1	4:H:407:ARG:HG3	2.23	0.50
1:A:120:ARG:CZ	1:A:239:SER:OG	2.60	0.50
2:B:102:SER:OG	2:B:103:HIS:N	2.43	0.50
2:B:186:ILE:HD13	2:B:214:ILE:HD11	1.94	0.50
2:B:367:CYS:O	2:B:368:LEU:C	2.49	0.50
2:B:367:CYS:SG	2:B:443:HIS:N	2.85	0.50
3:C:1137:LYS:HD2	3:C:1154:HIS:HB3	1.94	0.50
3:C:1215:GLN:C	3:C:1218:PRO:HD2	2.32	0.50
3:C:1231:ASP:O	3:C:1235:ILE:CD1	2.60	0.50
3:C:1330:LEU:O	3:C:1331:ILE:C	2.50	0.50
3:C:377:CYS:SG	3:C:378:VAL:N	2.84	0.50
3:C:691:CYS:HA	3:C:780:LEU:HD21	1.93	0.50
4:D:503:LEU:HD23	4:D:534:THR:HG23	1.92	0.50
4:D:342:VAL:O	4:D:574:LEU:HD12	2.11	0.50
1:E:129:PRO:HD3	1:E:345:PHE:CZ	2.47	0.50
1:E:68:LYS:HE3	1:E:72:LYS:CD	2.41	0.50
2:F:194:LEU:HD11	2:F:213:ASP:HB3	1.92	0.50
3:G:1198:LEU:HG	3:G:1199:GLN:H	1.75	0.50
3:G:1207:ASP:OD2	3:G:1207:ASP:C	2.49	0.50
3:G:1349:GLU:OE2	3:G:1378:THR:HB	2.11	0.50
3:G:542:PHE:CG	3:G:542:PHE:O	2.65	0.50
3:G:622:PHE:O	3:G:624:ALA:N	2.45	0.50
4:H:222:CYS:O	4:H:223:LYS:C	2.49	0.50
4:H:538:LEU:HD12	4:H:540:ILE:CD1	2.42	0.50
2:B:146:ASP:OD2	2:B:146:ASP:N	2.44	0.50
2:B:266:GLY:O	2:B:267:ASN:O	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:26:LEU:HD22	2:B:128:LEU:CD1	2.41	0.50
2:B:283:SER:O	2:B:447:PHE:HE2	1.95	0.50
3:C:1411:ASP:O	3:C:1415:ASP:OD2	2.29	0.50
3:C:1417:LEU:HG	3:C:1421:PHE:CD2	2.36	0.50
3:C:570:LEU:HD13	3:C:766:LEU:HD22	1.93	0.50
3:C:622:PHE:CE2	3:C:647:LEU:HD11	2.47	0.50
3:C:648:LEU:HD23	3:C:670:MET:SD	2.52	0.50
3:C:851:PHE:HD1	3:C:1048:LEU:CD1	2.19	0.50
4:D:403:LYS:HB3	4:D:442:TYR:HE1	1.77	0.50
4:D:510:PRO:O	4:D:511:LEU:C	2.50	0.50
1:E:269:TRP:CE2	1:E:273:LYS:HD3	2.46	0.50
2:F:103:HIS:CD2	2:F:104:PHE:CD1	2.99	0.50
2:F:328:LYS:NZ	2:F:341:PHE:HD2	2.09	0.50
2:F:404:SER:O	2:F:407:GLY:N	2.45	0.50
2:F:93:TYR:HB3	2:F:96:ARG:HB3	1.94	0.50
3:G:1236:ALA:HB2	3:G:1246:PHE:CZ	2.47	0.50
3:G:354:ASN:N	3:G:354:ASN:HD22	2.09	0.50
3:G:622:PHE:HE2	3:G:647:LEU:CD2	2.18	0.50
3:G:740:TYR:O	3:G:743:GLU:HB3	2.10	0.50
3:G:760:ASN:O	3:G:764:LEU:HB2	2.12	0.50
3:G:774:ASN:CG	3:G:775:ILE:H	2.15	0.50
4:H:186:GLY:HA3	4:H:371:ARG:HH21	1.74	0.50
1:A:69:GLU:O	1:A:73:MET:CG	2.57	0.50
2:B:401:TYR:HD2	2:B:427:TYR:HE2	1.59	0.50
3:C:1349:GLU:HG2	3:C:1378:THR:O	2.11	0.50
3:C:353:TYR:HD2	3:C:354:ASN:ND2	2.09	0.50
3:C:385:ARG:HB2	3:C:457:TYR:CE1	2.47	0.50
3:C:843:LEU:N	3:C:981:ARG:CG	2.68	0.50
4:D:191:ILE:HG21	4:D:419:HIS:CE1	2.46	0.50
4:D:421:VAL:O	4:D:421:VAL:HG12	2.12	0.50
2:F:253:LEU:O	2:F:254:SER:OG	2.28	0.50
2:F:291:LEU:HD13	2:F:309:TYR:HB2	1.94	0.50
2:F:403:ILE:O	2:F:408:ILE:HG13	2.12	0.50
2:F:77:GLU:O	2:F:79:ARG:N	2.44	0.50
3:G:1002:ASP:O	3:G:1004:ASP:N	2.41	0.50
3:G:1083:ASP:O	3:G:1084:TRP:HE3	1.94	0.50
3:G:388:TYR:O	3:G:476:VAL:HA	2.11	0.50
3:G:618:LEU:HD23	3:G:619:LEU:HD22	1.92	0.50
3:G:903:ASP:H	3:G:906:LEU:CD1	2.25	0.50
3:G:788:ASN:HB3	3:G:956:MET:HE3	1.93	0.50
3:G:984:LEU:C	3:G:984:LEU:HD12	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:172:THR:HG22	4:H:173:SER:N	2.25	0.50
3:G:1360:LEU:CD2	4:H:216:ILE:HG22	2.36	0.50
4:H:363:LEU:O	4:H:364:ILE:C	2.50	0.50
4:H:543:GLU:CG	4:H:543:GLU:O	2.59	0.50
1:A:127:ILE:HD12	1:A:127:ILE:O	2.12	0.50
3:C:1095:VAL:HG13	3:C:1112:ILE:HD13	1.88	0.50
3:C:622:PHE:O	3:C:624:ALA:N	2.45	0.50
3:C:788:ASN:ND2	3:C:956:MET:SD	2.85	0.50
3:C:804:PRO:HG2	3:C:967:PHE:CE2	2.47	0.50
4:D:381:PHE:HE2	4:D:440:PHE:CE2	2.30	0.50
4:D:295:SER:OG	4:D:497:ARG:HD3	2.11	0.50
1:E:25:GLN:NE2	1:E:396:GLU:HG3	2.21	0.50
2:F:394:LEU:HA	2:F:397:LYS:HD2	1.94	0.50
3:G:857:LEU:HD12	3:G:1018:VAL:HG12	1.94	0.50
3:G:1034:LYS:O	3:G:1035:LEU:HD23	2.12	0.50
3:G:1405:LEU:HA	3:G:1408:LEU:HD23	1.94	0.50
3:G:859:LEU:CD2	3:G:1040:ILE:HA	2.42	0.50
3:G:981:ARG:HG3	3:G:981:ARG:NH1	2.27	0.50
4:H:397:PRO:O	4:H:401:ILE:HG13	2.11	0.50
4:H:538:LEU:CB	4:H:540:ILE:HD11	2.42	0.50
4:H:577:ARG:O	4:H:579:PRO:HD3	2.11	0.50
1:A:158:VAL:HG12	1:A:159:TYR:N	2.27	0.50
1:A:135:MET:SD	1:A:164:GLY:CA	2.95	0.50
3:C:1116:LEU:CA	3:C:1119:ILE:HG12	2.41	0.50
3:C:1175:VAL:HG12	3:C:1176:SER:N	2.27	0.50
3:C:1242:ASP:N	3:C:1243:PRO:HD2	2.27	0.50
3:C:658:HIS:O	3:C:661:LYS:HG3	2.12	0.50
4:D:344:VAL:CG2	4:D:574:LEU:HD11	2.42	0.50
1:E:334:ILE:HA	1:E:342:PHE:CE2	2.47	0.50
1:E:25:GLN:HE22	1:E:392:VAL:HG12	1.75	0.50
2:F:159:LYS:HE3	2:F:178:LEU:HD23	1.94	0.50
2:F:184:TYR:CD1	2:F:184:TYR:N	2.80	0.50
2:F:23:PRO:HD2	2:F:25:CYS:HB2	1.93	0.50
2:F:398:LEU:HD11	2:F:411:ILE:HG21	1.94	0.50
2:F:94:GLU:OE2	2:F:94:GLU:HA	2.12	0.50
4:H:406:LEU:HD21	4:H:455:PHE:HZ	1.76	0.50
4:H:376:ILE:HG23	4:H:421:VAL:CG1	2.42	0.50
4:H:571:PHE:N	4:H:571:PHE:HD2	2.09	0.50
1:A:144:ARG:NH1	1:A:149:ASP:OD2	2.44	0.49
1:A:258:SER:HB3	1:A:271:HIS:ND1	2.27	0.49
2:B:214:ILE:HG22	2:B:215:VAL:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1142:ASP:O	3:C:1145:ASP:N	2.43	0.49
3:C:1230:ILE:CG2	3:C:1235:ILE:HD11	2.42	0.49
3:C:395:LYS:CB	3:C:408:ILE:HD11	2.41	0.49
3:C:389:PHE:CZ	3:C:476:VAL:HG21	2.47	0.49
4:D:220:LEU:O	4:D:223:LYS:HB3	2.12	0.49
1:E:214:LYS:HA	1:E:217:ASN:HD22	1.77	0.49
2:F:279:LEU:N	2:F:279:LEU:HD23	2.26	0.49
2:F:367:CYS:HB3	2:F:421:GLN:HE21	1.74	0.49
2:F:374:ASN:O	2:F:375:PRO:O	2.30	0.49
2:F:94:GLU:CG	2:F:95:PRO:HD3	2.42	0.49
3:G:1005:SER:O	3:G:1006:ILE:HG12	2.12	0.49
3:G:630:ASP:C	3:G:688:ARG:HH22	2.15	0.49
4:H:476:LEU:HD12	4:H:480:LEU:HD23	1.93	0.49
1:A:141:ILE:CD1	1:A:303:PRO:HD3	2.42	0.49
2:B:229:ALA:C	2:B:231:ALA:N	2.65	0.49
2:B:22:TYR:HB3	2:B:84:SER:HB3	1.93	0.49
2:B:39:LEU:CD1	2:B:245:ARG:HD2	2.41	0.49
3:C:1277:GLU:OE1	3:C:1337:PHE:CZ	2.64	0.49
3:C:1349:GLU:OE2	3:C:1378:THR:HB	2.11	0.49
3:C:488:LEU:CD2	3:C:488:LEU:H	2.24	0.49
3:C:484:LEU:HD12	3:C:488:LEU:HD23	1.94	0.49
3:C:759:LEU:O	3:C:760:ASN:C	2.51	0.49
4:D:275:ASP:OD1	4:D:278:HIS:HB2	2.12	0.49
4:D:343:LEU:HD22	4:D:367:ILE:HD13	1.93	0.49
4:D:531:LEU:N	4:D:531:LEU:HD23	2.28	0.49
4:D:539:ILE:HG22	4:D:539:ILE:O	2.10	0.49
4:D:561:ARG:HG3	4:D:564:LYS:HZ3	1.77	0.49
1:E:108:PHE:N	1:E:108:PHE:CD1	2.80	0.49
1:E:259:PHE:CD2	1:E:268:ARG:HG3	2.47	0.49
1:E:276:ALA:O	1:E:280:GLN:HG2	2.12	0.49
2:F:139:LYS:O	2:F:142:ASP:OD2	2.29	0.49
3:G:1055:TYR:C	3:G:1055:TYR:CD1	2.85	0.49
3:G:495:GLY:O	3:G:496:PRO:C	2.50	0.49
3:G:758:GLU:OE1	3:G:758:GLU:HA	2.12	0.49
3:G:911:LEU:HB3	3:G:912:PRO:HD3	1.94	0.49
4:H:431:HIS:CE1	4:H:439:PRO:O	2.65	0.49
1:A:229:VAL:CG2	1:A:266:LEU:HD21	2.34	0.49
1:A:202:VAL:HG11	1:A:298:LEU:HB2	1.94	0.49
1:A:401:ASN:HD22	1:A:401:ASN:N	2.10	0.49
1:A:43:ARG:HE	1:A:83:VAL:CG2	2.25	0.49
2:B:101:ILE:O	2:B:102:SER:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:128:LEU:HD11	2:B:132:PHE:HE2	1.76	0.49
2:B:186:ILE:CD1	2:B:214:ILE:HD11	2.42	0.49
3:C:1095:VAL:C	3:C:1097:GLY:N	2.63	0.49
3:C:377:CYS:O	3:C:517:GLU:HA	2.12	0.49
3:C:636:GLY:O	3:C:693:VAL:HG23	2.13	0.49
3:C:705:SER:C	3:C:706:TYR:CD2	2.86	0.49
3:C:920:GLU:HG2	3:C:923:LYS:HZ2	1.78	0.49
4:D:247:ALA:O	4:D:309:THR:HA	2.12	0.49
4:D:296:LEU:HB2	4:D:485:ILE:HG13	1.94	0.49
1:E:35:VAL:O	1:E:36:ILE:HD13	2.13	0.49
2:F:160:THR:HA	2:F:163:GLU:HB2	1.94	0.49
1:E:207:LYS:HE3	2:F:172:SER:HA	1.94	0.49
2:F:303:HIS:HA	2:F:306:ARG:NH2	2.27	0.49
3:G:1036:LEU:O	3:G:1037:GLU:HG3	2.12	0.49
3:G:1151:SER:HA	3:G:1189:SER:HB2	1.92	0.49
3:G:568:PHE:CE1	3:G:575:PRO:CD	2.82	0.49
3:G:599:LYS:HE2	3:G:611:VAL:CG1	2.40	0.49
3:G:437:LYS:CD	3:G:800:ASN:ND2	2.72	0.49
3:G:872:PHE:CZ	3:G:979:LYS:HE2	2.47	0.49
3:G:998:VAL:O	3:G:998:VAL:HG12	2.12	0.49
4:H:246:PRO:HG3	4:H:311:GLY:CA	2.40	0.49
4:H:574:LEU:N	4:H:574:LEU:CD1	2.73	0.49
1:A:158:VAL:HA	1:A:333:PRO:HA	1.93	0.49
2:B:404:SER:O	2:B:407:GLY:N	2.45	0.49
3:C:1131:SER:C	3:C:1133:PHE:N	2.66	0.49
3:C:1224:CYS:O	3:C:1225:GLU:C	2.51	0.49
3:C:1312:ASN:HD22	3:C:1315:CYS:CB	2.17	0.49
3:C:437:LYS:HD2	3:C:802:ILE:CD1	2.42	0.49
3:C:561:ALA:HA	3:C:584:CYS:HA	1.94	0.49
3:C:651:ILE:HG13	3:C:656:ALA:HB3	1.95	0.49
3:C:988:LYS:O	3:C:992:GLN:HG3	2.12	0.49
4:D:164:ARG:NH1	4:D:167:ARG:NH2	2.58	0.49
4:D:494:ARG:O	4:D:498:ILE:HG12	2.13	0.49
2:F:148:GLN:HA	2:F:148:GLN:OE1	2.13	0.49
2:F:184:TYR:CE1	2:F:210:PRO:O	2.65	0.49
2:F:441:LEU:HD21	2:F:447:PHE:CD1	2.47	0.49
3:G:1376:LYS:HE2	3:G:1376:LYS:CA	2.42	0.49
3:G:636:GLY:HA3	3:G:639:ILE:CD1	2.38	0.49
3:G:651:ILE:HG22	3:G:652:ASN:H	1.77	0.49
3:G:658:HIS:O	3:G:659:TRP:C	2.51	0.49
3:G:762:LEU:N	3:G:763:PRO:CD	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:385:LYS:CA	4:H:390:GLU:OE1	2.56	0.49
1:A:103:GLU:OE1	1:A:176:LYS:HB3	2.12	0.49
1:A:244:LEU:HD11	1:A:256:GLN:HE22	1.76	0.49
1:A:60:PHE:HB3	1:A:65:ASP:HB2	1.94	0.49
3:C:1246:PHE:O	3:C:1249:HIS:HB2	2.13	0.49
3:C:1392:LEU:HD13	3:C:1441:LEU:CD2	2.42	0.49
3:C:362:PHE:CE2	3:C:664:ARG:HB3	2.47	0.49
3:C:979:LYS:O	3:C:982:GLU:HB3	2.12	0.49
4:D:292:LYS:CD	4:D:293:GLU:H	2.24	0.49
1:E:208:ILE:HD12	1:E:212:ILE:CG2	2.41	0.49
1:E:132:TRP:CD2	1:E:344:PRO:HG2	2.48	0.49
2:F:148:GLN:O	2:F:149:LEU:HB2	2.12	0.49
3:G:1007:MET:C	3:G:1008:ILE:HG13	2.33	0.49
3:G:1019:PHE:O	3:G:1021:LEU:N	2.46	0.49
3:G:1431:ARG:O	3:G:1435:ASN:CG	2.51	0.49
3:G:643:GLU:HA	3:G:646:VAL:HG23	1.93	0.49
3:G:848:LYS:O	3:G:849:VAL:C	2.51	0.49
4:H:435:TYR:HB2	4:H:518:MET:HE1	1.95	0.49
1:A:113:THR:HG23	1:A:163:ARG:CZ	2.43	0.49
1:A:291:TRP:HA	1:A:291:TRP:HE3	1.78	0.49
3:C:1010:THR:O	3:C:1011:ASN:CB	2.57	0.49
3:C:1340:LYS:O	3:C:1343:ASP:N	2.45	0.49
3:C:648:LEU:CD2	3:C:670:MET:SD	3.00	0.49
3:C:848:LYS:O	3:C:849:VAL:C	2.48	0.49
4:D:372:PRO:O	4:D:418:SER:HB3	2.13	0.49
4:D:522:TYR:N	4:D:522:TYR:CD2	2.80	0.49
4:D:576:LEU:O	4:D:577:ARG:HB2	2.12	0.49
2:F:411:ILE:O	2:F:414:LEU:HB2	2.11	0.49
3:G:1038:ILE:HG13	3:G:1039:ASP:H	1.76	0.49
3:G:1340:LYS:O	3:G:1343:ASP:N	2.44	0.49
3:G:1348:CYS:SG	3:G:1353:CYS:CB	2.90	0.49
3:G:1401:ALA:HB2	3:G:1430:TYR:CD1	2.47	0.49
3:G:1402:GLU:O	3:G:1406:GLU:HG3	2.13	0.49
3:G:561:ALA:HA	3:G:584:CYS:HA	1.94	0.49
3:G:602:ILE:HG22	3:G:603:GLU:N	2.27	0.49
3:G:616:ARG:NH2	3:G:657:PRO:HD3	2.28	0.49
1:A:139:ILE:HD13	1:A:339:VAL:HG13	1.94	0.49
1:A:46:SER:C	1:A:47:PHE:CD1	2.86	0.49
2:B:42:PHE:CD1	2:B:105:ILE:HD11	2.48	0.49
2:B:22:TYR:HB3	2:B:23:PRO:HD3	1.94	0.49
2:B:27:GLN:NE2	2:B:29:TYR:HD2	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:336:MET:CG	2:B:337:ASP:H	2.14	0.49
2:B:376:PRO:HB3	2:B:382:HIS:CD2	2.48	0.49
3:C:1300:GLY:N	3:C:1303:MET:HG3	2.28	0.49
3:C:1307:LEU:HD13	3:C:1430:TYR:CZ	2.47	0.49
3:C:556:GLU:HG2	3:C:650:ARG:HH21	1.78	0.49
3:C:929:MET:O	3:C:929:MET:HG2	2.13	0.49
4:D:193:LEU:CD1	4:D:462:LEU:HD11	2.38	0.49
4:D:512:TYR:CD1	4:D:513:PRO:HA	2.48	0.49
1:E:168:TRP:CZ2	1:E:320:PRO:HD3	2.48	0.49
1:E:16:TYR:CD1	1:E:20:LEU:HB2	2.48	0.49
1:E:206:GLU:OE2	1:E:289:GLY:HA2	2.11	0.49
1:E:402:LEU:N	1:E:402:LEU:HD13	2.28	0.49
1:E:74:ASN:N	1:E:75:PRO:HD3	2.27	0.49
2:F:215:VAL:O	2:F:218:ILE:HB	2.13	0.49
2:F:97:ARG:O	2:F:98:ARG:C	2.50	0.49
3:G:761:VAL:HB	3:G:762:LEU:HD23	1.94	0.49
4:H:287:ASP:HB3	4:H:315:VAL:HA	1.94	0.49
4:H:495:PHE:O	4:H:497:ARG:N	2.45	0.49
1:A:42:HIS:O	1:A:83:VAL:HA	2.13	0.49
1:A:50:LYS:HD2	1:A:50:LYS:H	1.78	0.49
2:B:285:PRO:HB2	2:B:286:PRO:HD2	1.94	0.49
2:B:300:HIS:HA	2:B:331:PHE:HE1	1.78	0.49
2:B:443:HIS:ND1	2:B:445:ASN:N	2.60	0.49
3:C:1018:VAL:O	3:C:1021:LEU:HB3	2.13	0.49
3:C:1369:PRO:HG3	3:C:1379:LEU:HB2	1.95	0.49
3:C:1430:TYR:O	3:C:1431:ARG:C	2.49	0.49
3:C:350:GLU:HB3	3:C:359:VAL:HG22	1.95	0.49
3:C:387:LEU:HD23	3:C:476:VAL:CG2	2.42	0.49
3:C:559:ALA:HA	3:C:585:VAL:O	2.12	0.49
3:C:651:ILE:CG2	3:C:652:ASN:N	2.74	0.49
3:C:759:LEU:HB2	3:C:761:VAL:CG2	2.42	0.49
4:D:364:ILE:O	4:D:367:ILE:N	2.46	0.49
4:D:497:ARG:O	4:D:498:ILE:C	2.50	0.49
4:D:535:PRO:HG2	4:D:554:CYS:SG	2.53	0.49
1:E:59:SER:HB3	1:E:89:ASN:CG	2.33	0.49
2:F:311:LEU:O	2:F:312:PHE:C	2.51	0.49
2:F:311:LEU:HB3	2:F:364:PRO:HG3	1.94	0.49
2:F:398:LEU:HD12	2:F:408:ILE:HG23	1.95	0.49
2:F:449:CYS:O	2:F:452:GLN:N	2.40	0.49
3:G:1267:LEU:HD23	3:G:1271:GLU:OE2	2.12	0.49
3:G:1290:ASN:ND2	3:G:1292:TYR:HE1	2.08	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1395:TYR:CD1	3:G:1398:ILE:HD11	2.40	0.49
4:H:198:CYS:O	4:H:199:PRO:C	2.50	0.49
4:H:355:ILE:O	4:H:357:TYR:HD1	1.95	0.49
1:A:144:ARG:NH1	1:A:145:ALA:HA	2.28	0.49
2:B:308:GLN:HA	2:B:365:PHE:CE2	2.48	0.49
2:B:369:LYS:C	2:B:371:ILE:N	2.66	0.49
3:C:1054:LYS:HD3	3:C:1076:GLY:O	2.13	0.49
3:C:1094:PHE:CZ	3:C:1115:ARG:HG2	2.48	0.49
3:C:1415:ASP:HA	3:C:1418:LYS:HB3	1.94	0.49
3:C:495:GLY:O	3:C:496:PRO:C	2.50	0.49
3:C:658:HIS:O	3:C:659:TRP:C	2.51	0.49
3:C:636:GLY:C	3:C:752:ILE:HD13	2.33	0.49
4:D:563:THR:O	4:D:564:LYS:HG3	2.12	0.49
2:F:276:ILE:HA	2:F:279:LEU:HG	1.95	0.49
2:F:285:PRO:HG2	2:F:287:CYS:SG	2.53	0.49
3:G:1217:HIS:N	3:G:1218:PRO:CD	2.76	0.49
3:G:1224:CYS:HA	3:G:1227:ILE:CD1	2.43	0.49
3:G:1244:THR:O	3:G:1248:VAL:HG23	2.13	0.49
3:G:1294:ASN:OD1	3:G:1397:TYR:CZ	2.66	0.49
3:G:1305:PRO:O	3:G:1308:TYR:N	2.44	0.49
3:G:1279:PHE:HB2	3:G:1395:TYR:CE1	2.48	0.49
3:G:485:GLU:CD	3:G:966:ARG:HH12	2.16	0.49
3:G:629:ILE:CG2	3:G:631:PRO:HD3	2.35	0.49
3:G:659:TRP:HZ2	3:G:667:ARG:O	1.96	0.49
3:G:982:GLU:HA	3:G:985:MET:HE2	1.94	0.49
4:H:182:TRP:HE3	4:H:341:MET:CE	2.26	0.49
4:H:196:LEU:HD12	4:H:197:GLY:H	1.77	0.49
1:A:350:ILE:HA	1:A:353:ILE:CG1	2.43	0.49
1:A:56:ARG:O	1:A:58:GLN:HG2	2.13	0.49
2:B:114:GLU:O	2:B:118:ARG:HG3	2.13	0.49
2:B:75:GLU:HB3	2:B:130:PHE:CZ	2.43	0.49
2:B:143:PHE:O	2:B:147:SER:OG	2.18	0.49
3:C:850:GLY:HA2	3:C:1226:PRO:O	2.13	0.49
3:C:598:PHE:CZ	3:C:738:LEU:HB3	2.48	0.49
3:C:703:CYS:SG	3:C:706:TYR:OH	2.68	0.49
3:C:759:LEU:O	3:C:761:VAL:N	2.46	0.49
3:C:774:ASN:CG	3:C:775:ILE:N	2.66	0.49
4:D:421:VAL:O	4:D:421:VAL:CG1	2.60	0.49
4:D:512:TYR:HA	4:D:514:PRO:HD3	1.94	0.49
4:D:561:ARG:HG3	4:D:564:LYS:CE	2.43	0.49
1:E:355:ARG:CB	1:E:355:ARG:HH11	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:358:LYS:CG	2:F:359:ARG:N	2.58	0.49
3:G:1116:LEU:CA	3:G:1119:ILE:HG12	2.43	0.49
3:G:1175:VAL:HG12	3:G:1176:SER:N	2.27	0.49
3:G:558:ILE:HD11	3:G:741:LEU:HD21	1.94	0.49
3:G:642:PHE:O	3:G:646:VAL:HG23	2.13	0.49
3:G:774:ASN:CG	3:G:775:ILE:N	2.66	0.49
3:G:795:ALA:HB2	3:G:914:GLU:HG3	1.95	0.49
4:H:543:GLU:HG3	4:H:543:GLU:O	2.12	0.49
1:A:157:TRP:CB	1:A:334:ILE:HD12	2.42	0.48
2:B:280:SER:N	2:B:284:PHE:CE1	2.81	0.48
2:B:265:GLN:CB	2:B:362:TYR:CE2	2.92	0.48
3:C:1036:LEU:C	3:C:1037:GLU:HG3	2.33	0.48
3:C:1188:ALA:HA	3:C:1191:ARG:HE	1.76	0.48
3:C:507:LEU:O	3:C:508:ASN:C	2.51	0.48
3:C:598:PHE:CE1	3:C:735:SER:HA	2.49	0.48
3:C:719:GLU:OE1	3:C:720:ARG:N	2.46	0.48
3:C:721:VAL:HG12	3:C:722:VAL:H	1.77	0.48
3:C:878:THR:HB	3:C:902:PRO:HG3	1.94	0.48
3:C:918:LEU:HD12	3:C:953:ALA:HB2	1.94	0.48
3:C:975:LEU:HD12	3:C:975:LEU:C	2.33	0.48
4:D:212:LYS:O	4:D:213:LEU:C	2.50	0.48
4:D:254:LEU:C	4:D:254:LEU:HD12	2.32	0.48
4:D:541:PRO:C	4:D:558:ASN:OD1	2.52	0.48
1:E:103:GLU:CD	1:E:176:LYS:HB3	2.33	0.48
1:E:118:VAL:HG11	1:E:300:TYR:O	2.13	0.48
2:F:137:LYS:NZ	2:F:181:GLU:CA	2.74	0.48
3:G:1083:ASP:C	3:G:1084:TRP:HE3	2.15	0.48
3:G:1113:GLN:O	3:G:1117:ILE:HG13	2.13	0.48
3:G:1307:LEU:N	3:G:1307:LEU:HD12	2.27	0.48
3:G:437:LYS:CE	3:G:800:ASN:ND2	2.76	0.48
3:G:982:GLU:O	3:G:984:LEU:N	2.46	0.48
4:H:267:ASN:OD1	4:H:267:ASN:N	2.46	0.48
4:H:257:ILE:CG2	4:H:270:VAL:HG13	2.43	0.48
4:H:435:TYR:C	4:H:435:TYR:CD1	2.86	0.48
1:A:106:LEU:HD21	1:A:185:ILE:HD12	1.94	0.48
1:A:345:PHE:CD1	1:A:345:PHE:N	2.82	0.48
1:A:410:LEU:C	1:A:412:LYS:H	2.16	0.48
2:B:171:PRO:C	2:B:173:LEU:N	2.65	0.48
2:B:39:LEU:HD11	2:B:245:ARG:CD	2.43	0.48
4:D:297:PHE:N	4:D:300:GLN:OE1	2.46	0.48
4:D:445:LEU:HB3	4:D:450:LYS:HZ3	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:30:LEU:HD11	1:E:80:ILE:CD1	2.41	0.48
3:G:1345:TRP:CH2	3:G:1358:ARG:HD3	2.48	0.48
3:G:484:LEU:HD12	3:G:488:LEU:HD23	1.95	0.48
3:G:522:LYS:HG3	3:G:525:LEU:CD1	2.42	0.48
3:G:583:PHE:C	3:G:583:PHE:CD1	2.87	0.48
3:G:599:LYS:O	3:G:602:ILE:HB	2.12	0.48
3:G:664:ARG:HG3	3:G:688:ARG:NE	2.28	0.48
3:G:864:LEU:C	3:G:866:PRO:HD2	2.34	0.48
4:H:248:GLN:HA	4:H:309:THR:HG22	1.95	0.48
4:H:508:TYR:CE2	4:H:531:LEU:HD22	2.48	0.48
1:A:169:VAL:HG12	1:A:174:VAL:HG11	1.95	0.48
1:A:410:LEU:O	1:A:412:LYS:N	2.46	0.48
1:A:46:SER:HB3	1:A:79:ASP:HB2	1.95	0.48
2:B:32:PRO:CA	2:B:104:PHE:HE2	2.25	0.48
2:B:258:THR:C	2:B:260:GLN:N	2.65	0.48
2:B:313:LEU:O	2:B:316:ILE:CG1	2.61	0.48
2:B:320:LEU:HA	2:B:353:PHE:CE1	2.48	0.48
3:C:1158:ALA:CA	3:C:1161:ILE:HD12	2.42	0.48
3:C:1215:GLN:O	3:C:1218:PRO:HD2	2.12	0.48
3:C:362:PHE:HE2	3:C:664:ARG:HB3	1.79	0.48
3:C:858:LEU:HD13	3:C:1007:MET:CE	2.42	0.48
4:D:240:PHE:HA	4:D:252:THR:O	2.12	0.48
1:E:135:MET:SD	1:E:165:VAL:HG22	2.54	0.48
1:E:264:ASN:OD1	1:E:266:LEU:HB2	2.13	0.48
1:E:129:PRO:HG3	1:E:345:PHE:CE2	2.48	0.48
1:E:55:ILE:CG1	1:E:56:ARG:N	2.76	0.48
3:G:854:LYS:CB	3:G:1011:ASN:HA	2.43	0.48
3:G:1019:PHE:O	3:G:1022:GLY:N	2.46	0.48
3:G:1045:LYS:N	3:G:1058:LEU:O	2.44	0.48
3:G:1122:ASN:HA	3:G:1125:ASN:HD21	1.78	0.48
3:G:876:PHE:CE2	3:G:960:LEU:HD11	2.49	0.48
4:H:364:ILE:O	4:H:367:ILE:N	2.46	0.48
4:H:383:ASP:OD1	4:H:385:LYS:HB2	2.13	0.48
1:A:84:TYR:CD1	1:A:101:ALA:HA	2.48	0.48
1:A:343:ASP:OD1	1:A:346:THR:HG23	2.13	0.48
1:A:89:ASN:ND2	1:A:90:GLN:HG3	2.29	0.48
4:D:424:PRO:HG2	4:D:458:GLU:HB3	1.95	0.48
1:E:56:ARG:HG2	1:E:57:TYR:HD2	1.77	0.48
2:F:144:LEU:O	2:F:145:LYS:C	2.52	0.48
2:F:284:PHE:HB3	2:F:288:MET:HB2	1.94	0.48
3:G:1439:GLN:O	3:G:1442:SER:HB3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:487:PHE:O	3:G:488:LEU:C	2.50	0.48
3:G:648:LEU:O	3:G:651:ILE:HG22	2.14	0.48
3:G:691:CYS:HA	3:G:780:LEU:HD22	1.94	0.48
3:G:698:LYS:HA	3:G:706:TYR:CE1	2.48	0.48
3:G:973:ALA:O	3:G:974:ALA:C	2.52	0.48
3:G:979:LYS:O	3:G:982:GLU:HB3	2.14	0.48
4:H:360:LEU:O	4:H:364:ILE:HG13	2.14	0.48
1:A:112:MET:HB3	1:A:163:ARG:HB2	1.94	0.48
1:A:29:TRP:CD1	1:A:29:TRP:C	2.87	0.48
2:B:42:PHE:CD1	3:C:1449:VAL:HG11	2.48	0.48
3:C:410:MET:HE1	3:C:453:LEU:HB2	1.94	0.48
3:C:635:VAL:CG2	3:C:635:VAL:O	2.60	0.48
4:D:288:LEU:O	4:D:291:LEU:N	2.41	0.48
4:D:307:ILE:HG13	4:D:315:VAL:CG2	2.43	0.48
4:D:161:TYR:CZ	4:D:359:PRO:HG3	2.48	0.48
4:D:202:LEU:HD21	4:D:439:PRO:HD3	1.94	0.48
4:D:447:ARG:NH2	4:D:450:LYS:HB2	2.28	0.48
1:E:141:ILE:HD12	1:E:303:PRO:HD3	1.95	0.48
1:E:14:LYS:HA	1:E:74:ASN:OD1	2.13	0.48
1:E:246:LEU:CD1	1:E:296:ILE:HG12	2.44	0.48
1:E:37:LYS:CG	1:E:38:ASN:N	2.76	0.48
1:E:156:LEU:HB2	1:E:398:PHE:CE1	2.48	0.48
2:F:23:PRO:HD2	2:F:25:CYS:HG	1.76	0.48
3:G:1277:GLU:OE1	3:G:1337:PHE:CZ	2.66	0.48
3:G:533:SER:OG	3:G:534:PRO:CD	2.60	0.48
3:G:731:MET:HG2	3:G:737:GLN:HB3	1.95	0.48
3:G:843:LEU:HD11	3:G:845:LEU:HD23	1.92	0.48
3:G:922:ARG:NH1	3:G:950:LYS:HD2	2.26	0.48
4:H:540:ILE:O	4:H:541:PRO:O	2.31	0.48
1:A:147:LYS:CB	1:A:155:ARG:CZ	2.92	0.48
1:A:157:TRP:CE3	1:A:166:HIS:O	2.67	0.48
1:A:142:ILE:HD11	1:A:189:LEU:HB3	1.93	0.48
2:B:235:ARG:HD3	3:C:898:ILE:HB	1.95	0.48
2:B:421:GLN:O	2:B:425:GLN:HG3	2.14	0.48
3:C:1192:ALA:C	3:C:1193:TYR:HD1	2.17	0.48
3:C:349:TYR:O	3:C:359:VAL:HG13	2.13	0.48
3:C:484:LEU:HD12	3:C:488:LEU:CD2	2.44	0.48
3:C:507:LEU:N	3:C:507:LEU:HD12	2.24	0.48
3:C:760:ASN:HB3	3:C:944:ILE:HD11	1.96	0.48
4:D:332:GLU:CA	4:D:332:GLU:OE2	2.62	0.48
4:D:400:ASP:O	4:D:402:PHE:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:26:TYR:HD2	1:E:66:LEU:HD21	1.78	0.48
2:F:308:GLN:HE22	2:F:383:GLY:N	2.10	0.48
3:G:1097:GLY:O	3:G:1100:LEU:N	2.41	0.48
3:G:1425:LYS:O	3:G:1428:GLN:N	2.47	0.48
3:G:585:VAL:HB	3:G:621:PHE:CD2	2.49	0.48
3:G:693:VAL:HG23	3:G:694:GLU:N	2.28	0.48
4:H:170:VAL:CG1	4:H:594:GLN:HG3	2.43	0.48
4:H:244:LEU:O	4:H:246:PRO:HD3	2.13	0.48
4:H:256:GLN:C	4:H:272:LEU:HD12	2.34	0.48
4:H:525:PHE:CD1	4:H:529:ALA:HB3	2.49	0.48
1:A:110:ILE:HG12	1:A:305:LEU:CD2	2.42	0.48
1:A:160:SER:HB3	1:A:166:HIS:CD2	2.49	0.48
1:A:279:TYR:CE1	1:A:283:ILE:HG13	2.49	0.48
2:B:146:ASP:O	2:B:147:SER:O	2.32	0.48
2:B:370:ILE:O	2:B:370:ILE:HG22	2.13	0.48
2:B:425:GLN:O	2:B:428:PHE:N	2.47	0.48
3:C:1019:PHE:O	3:C:1020:LYS:C	2.49	0.48
3:C:1118:GLU:O	3:C:1122:ASN:ND2	2.47	0.48
3:C:1211:TYR:CA	3:C:1215:GLN:HB2	2.42	0.48
3:C:1305:PRO:O	3:C:1307:LEU:N	2.46	0.48
3:C:1426:VAL:O	3:C:1429:ASP:HB2	2.13	0.48
3:C:433:LYS:O	3:C:454:GLU:HB3	2.13	0.48
3:C:843:LEU:HD23	3:C:981:ARG:O	2.13	0.48
3:C:846:ASP:HA	3:C:847:PRO:HD2	1.73	0.48
3:C:854:LYS:O	3:C:856:ILE:HD12	2.14	0.48
4:D:288:LEU:O	4:D:289:SER:C	2.51	0.48
4:D:376:ILE:HD11	4:D:464:ILE:HD11	1.95	0.48
2:F:192:LEU:HA	2:F:195:PHE:CD2	2.48	0.48
2:F:371:ILE:CD1	2:F:384:CYS:HB3	2.42	0.48
3:G:1077:LEU:N	3:G:1077:LEU:HD23	2.28	0.48
3:G:1217:HIS:CD2	3:G:1246:PHE:HZ	2.32	0.48
3:G:602:ILE:HG22	3:G:603:GLU:OE1	2.13	0.48
4:H:403:LYS:HZ3	4:H:442:TYR:HD1	1.61	0.48
1:A:188:TYR:CZ	2:B:202:LEU:HD12	2.48	0.48
1:A:89:ASN:HD22	1:A:89:ASN:N	2.10	0.48
2:B:447:PHE:O	2:B:447:PHE:CD2	2.66	0.48
3:C:1088:ALA:O	3:C:1092:GLY:N	2.41	0.48
3:C:953:ALA:CA	3:C:956:MET:HG2	2.43	0.48
4:D:382:LEU:HD22	4:D:401:ILE:HG21	1.95	0.48
1:E:168:TRP:CH2	1:E:320:PRO:HD3	2.49	0.48
2:F:164:GLN:NE2	2:F:176:LEU:CD1	2.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:258:THR:C	2:F:260:GLN:N	2.67	0.48
2:F:260:GLN:HA	2:F:260:GLN:NE2	2.29	0.48
2:F:306:ARG:NE	2:F:345:TYR:HE1	2.12	0.48
2:F:413:ASP:HA	2:F:416:LYS:HD3	1.96	0.48
3:G:364:LYS:HZ3	3:G:538:VAL:HG23	1.77	0.48
3:G:700:LEU:C	3:G:701:ILE:HG22	2.32	0.48
3:G:725:MET:O	3:G:728:ILE:HG13	2.14	0.48
3:G:725:MET:CA	3:G:728:ILE:HD11	2.38	0.48
3:G:796:PHE:CD1	3:G:910:ILE:HG12	2.48	0.48
3:G:966:ARG:O	3:G:967:PHE:HD2	1.96	0.48
4:H:252:THR:HG22	4:H:305:GLU:HB2	1.95	0.48
4:H:435:TYR:HD2	4:H:518:MET:CE	2.26	0.48
1:A:5:ASP:HA	1:A:6:PRO:HD2	1.73	0.48
2:B:365:PHE:CD1	2:B:369:LYS:HD3	2.49	0.48
2:B:443:HIS:C	2:B:443:HIS:ND1	2.66	0.48
2:B:49:ARG:HB2	2:B:102:SER:CB	2.33	0.48
3:C:1019:PHE:HE1	3:C:1040:ILE:HG21	1.77	0.48
3:C:1142:ASP:O	3:C:1144:GLN:N	2.46	0.48
3:C:1149:LYS:HD3	3:C:1150:LYS:HG3	1.95	0.48
3:C:1283:CYS:HB2	3:C:1310:CYS:SG	2.54	0.48
3:C:1363:GLN:OE1	3:C:1370:LEU:HD23	2.13	0.48
3:C:1425:LYS:O	3:C:1428:GLN:N	2.47	0.48
3:C:1432:LYS:HA	3:C:1435:ASN:HD22	1.79	0.48
3:C:975:LEU:O	3:C:978:TYR:HB3	2.13	0.48
4:D:164:ARG:HH11	4:D:164:ARG:CG	2.27	0.48
1:E:114:ASP:O	1:E:304:ARG:NH1	2.46	0.48
1:E:161:GLY:HA3	1:E:324:HIS:HD2	1.78	0.48
3:G:861:PHE:CD2	3:G:1038:ILE:HA	2.48	0.48
3:G:439:TYR:CD2	3:G:440:ALA:N	2.82	0.48
3:G:586:VAL:CB	3:G:742:LEU:HD21	2.43	0.48
3:G:588:LYS:HB2	3:G:589:PRO:HD2	1.95	0.48
4:H:296:LEU:HD23	4:H:300:GLN:HE22	1.77	0.48
4:H:400:ASP:O	4:H:402:PHE:N	2.46	0.48
4:H:394:LEU:HD22	4:H:401:ILE:HD13	1.95	0.48
4:H:520:ILE:CG2	4:H:521:ASP:N	2.74	0.48
1:A:352:PHE:O	1:A:356:GLU:HG3	2.14	0.48
2:B:78:LEU:HD12	2:B:130:PHE:CE2	2.49	0.48
3:C:1083:ASP:O	3:C:1135:ILE:HG23	2.13	0.48
3:C:693:VAL:CG1	3:C:755:ILE:HG22	2.44	0.48
3:C:437:LYS:CB	3:C:802:ILE:HD11	2.43	0.48
3:C:852:TYR:CE1	3:C:999:ILE:HG21	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:864:LEU:N	3:C:866:PRO:HD2	2.29	0.48
3:C:935:ASN:HD22	3:C:936:PRO:N	2.11	0.48
1:E:151:GLY:O	1:E:153:LYS:HG2	2.13	0.48
1:E:262:SER:O	1:E:268:ARG:NH2	2.46	0.48
2:F:51:LYS:NZ	2:F:260:GLN:HG2	2.28	0.48
2:F:362:TYR:CD2	2:F:362:TYR:O	2.67	0.48
2:F:385:PRO:CG	2:F:386:PHE:H	2.21	0.48
2:F:38:SER:HA	3:G:1447:SER:O	2.13	0.48
2:F:389:SER:CB	2:F:397:LYS:HZ1	2.24	0.48
2:F:441:LEU:CD2	2:F:447:PHE:HD1	2.26	0.48
3:G:1334:ILE:CG2	3:G:1334:ILE:O	2.61	0.48
3:G:683:ASN:ND2	3:G:683:ASN:N	2.62	0.48
3:G:563:LEU:CD2	3:G:746:TRP:HE1	2.26	0.48
3:G:803:VAL:HB	3:G:804:PRO:HD3	1.92	0.48
3:G:988:LYS:HE2	3:G:988:LYS:HB3	1.63	0.48
4:H:297:PHE:CZ	4:H:300:GLN:HA	2.49	0.48
3:G:1335:ARG:NH2	4:H:431:HIS:O	2.45	0.48
4:H:344:VAL:HG11	4:H:539:ILE:HG21	1.96	0.48
4:H:571:PHE:HE2	4:H:597:ARG:O	1.97	0.48
1:A:146:LEU:HB2	1:A:155:ARG:CD	2.41	0.47
1:A:26:TYR:OH	1:A:80:ILE:HG12	2.14	0.47
3:C:1044:PHE:CD1	3:C:1057:ALA:HB1	2.49	0.47
4:D:196:LEU:HG	4:D:197:GLY:N	2.29	0.47
4:D:458:GLU:OE1	4:D:472:THR:HA	2.12	0.47
4:D:494:ARG:O	4:D:497:ARG:HB3	2.14	0.47
4:D:548:VAL:HG22	4:D:557:VAL:HG13	1.96	0.47
4:D:561:ARG:HG3	4:D:564:LYS:NZ	2.29	0.47
1:E:150:PHE:HB3	1:E:152:PHE:CE1	2.48	0.47
1:E:137:MET:HE3	1:E:301:CYS:HB3	1.96	0.47
1:E:389:ALA:N	1:E:390:PRO:HD2	2.29	0.47
2:F:26:LEU:HG	2:F:131:ARG:HB3	1.95	0.47
2:F:425:GLN:O	2:F:428:PHE:N	2.47	0.47
2:F:94:GLU:HG3	2:F:95:PRO:CD	2.43	0.47
3:G:1047:LEU:HD12	3:G:1056:ALA:O	2.14	0.47
3:G:1345:TRP:HA	3:G:1345:TRP:CE3	2.47	0.47
3:G:589:PRO:HG3	3:G:592:CYS:HB2	1.95	0.47
3:G:618:LEU:O	3:G:621:PHE:HB3	2.13	0.47
3:G:944:ILE:O	3:G:946:GLN:N	2.46	0.47
4:H:227:LEU:HD11	4:H:231:LEU:HD21	1.94	0.47
1:A:202:VAL:HG11	1:A:298:LEU:CB	2.43	0.47
2:B:433:ASN:C	2:B:434:VAL:HG12	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:195:VAL:HA	4:D:462:LEU:HD12	1.96	0.47
4:D:343:LEU:O	4:D:344:VAL:HG13	2.14	0.47
4:D:477:LEU:HD11	4:D:540:ILE:HB	1.95	0.47
4:D:561:ARG:HG3	4:D:564:LYS:HE2	1.96	0.47
2:F:146:ASP:O	2:F:147:SER:O	2.32	0.47
2:F:266:GLY:O	2:F:267:ASN:O	2.32	0.47
3:G:1094:PHE:C	3:G:1094:PHE:CD1	2.88	0.47
3:G:1279:PHE:HB2	3:G:1395:TYR:HE1	1.79	0.47
3:G:362:PHE:CD1	3:G:362:PHE:N	2.82	0.47
3:G:983:ILE:O	3:G:983:ILE:CG2	2.62	0.47
4:H:157:PRO:C	4:H:158:SER:OG	2.53	0.47
4:H:171:VAL:HG23	4:H:595:VAL:HG12	1.96	0.47
4:H:194:LYS:HG3	4:H:463:SER:CB	2.26	0.47
4:H:407:ARG:O	4:H:410:ILE:N	2.48	0.47
1:A:147:LYS:CB	1:A:155:ARG:NH2	2.77	0.47
1:A:226:TYR:HA	1:A:230:ASN:HB2	1.96	0.47
1:A:276:ALA:HA	1:A:279:TYR:HB3	1.97	0.47
2:B:135:LEU:HB2	2:B:140:ILE:CG1	2.44	0.47
3:C:1007:MET:C	3:C:1008:ILE:HG13	2.35	0.47
3:C:1425:LYS:HG2	3:C:1429:ASP:OD2	2.14	0.47
3:C:664:ARG:HE	3:C:688:ARG:NH2	2.11	0.47
3:C:543:SER:HB2	3:C:749:ALA:H	1.76	0.47
3:C:978:TYR:N	3:C:981:ARG:HH22	2.11	0.47
1:E:112:MET:HB2	1:E:163:ARG:HB2	1.97	0.47
1:E:208:ILE:O	1:E:208:ILE:HG22	2.14	0.47
2:F:23:PRO:HD2	2:F:25:CYS:CB	2.43	0.47
2:F:309:TYR:O	2:F:310:GLY:C	2.51	0.47
2:F:374:ASN:O	2:F:375:PRO:C	2.51	0.47
3:G:1178:VAL:O	3:G:1179:ILE:HD13	2.14	0.47
3:G:1050:LEU:HD13	3:G:1226:PRO:CG	2.43	0.47
3:G:371:GLU:O	3:G:371:GLU:HG2	2.14	0.47
3:G:532:VAL:HG12	3:G:533:SER:N	2.28	0.47
4:H:247:ALA:O	4:H:309:THR:HA	2.14	0.47
4:H:297:PHE:CE2	4:H:300:GLN:HG3	2.48	0.47
4:H:364:ILE:CA	4:H:367:ILE:HG13	2.45	0.47
4:H:497:ARG:O	4:H:498:ILE:C	2.51	0.47
1:A:114:ASP:O	1:A:304:ARG:HD2	2.14	0.47
1:A:389:ALA:N	1:A:390:PRO:HD2	2.30	0.47
2:B:128:LEU:HD11	2:B:132:PHE:CE2	2.49	0.47
2:B:135:LEU:HB2	2:B:140:ILE:HG12	1.96	0.47
2:B:309:TYR:O	2:B:310:GLY:C	2.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:77:GLU:C	2:B:79:ARG:N	2.66	0.47
3:C:1384:SER:OG	3:C:1386:LYS:N	2.47	0.47
3:C:682:ARG:CD	3:C:682:ARG:C	2.79	0.47
3:C:855:PHE:C	3:C:856:ILE:HD12	2.34	0.47
3:C:796:PHE:CE1	3:C:910:ILE:HG21	2.49	0.47
3:C:944:ILE:O	3:C:946:GLN:N	2.47	0.47
4:D:198:CYS:O	4:D:199:PRO:C	2.51	0.47
4:D:382:LEU:CD1	4:D:389:VAL:HG21	2.41	0.47
1:E:131:CYS:HA	1:E:226:TYR:HE1	1.79	0.47
1:E:37:LYS:NZ	1:E:42:HIS:CE1	2.82	0.47
2:F:26:LEU:HB3	2:F:143:PHE:CZ	2.49	0.47
2:F:302:ARG:HH12	2:F:379:GLY:HA3	1.79	0.47
3:G:1157:VAL:HG21	3:G:1177:TYR:HB3	1.95	0.47
3:G:392:ARG:NH2	3:G:474:SER:HA	2.29	0.47
3:G:559:ALA:HA	3:G:585:VAL:O	2.13	0.47
3:G:711:LEU:HB3	3:G:755:ILE:HD11	1.96	0.47
3:G:548:GLN:H	3:G:725:MET:HE3	1.79	0.47
3:G:790:PHE:HA	3:G:793:LEU:HD12	1.96	0.47
3:G:919:VAL:O	3:G:919:VAL:HG12	2.14	0.47
3:G:994:MET:O	3:G:996:LEU:HG	2.13	0.47
4:H:212:LYS:O	4:H:213:LEU:C	2.53	0.47
4:H:378:PHE:CD2	4:H:541:PRO:HG2	2.49	0.47
4:H:574:LEU:HA	4:H:593:VAL:HG22	1.96	0.47
1:A:145:ALA:O	1:A:147:LYS:N	2.47	0.47
1:A:219:ILE:O	1:A:219:ILE:HG22	2.14	0.47
2:B:117:ARG:HG2	2:B:230:LEU:HB3	1.95	0.47
2:B:258:THR:O	2:B:260:GLN:N	2.46	0.47
2:B:369:LYS:C	2:B:371:ILE:H	2.17	0.47
3:C:1091:THR:O	3:C:1095:VAL:HG23	2.15	0.47
3:C:1294:ASN:ND2	3:C:1295:VAL:N	2.62	0.47
3:C:553:HIS:CG	3:C:554:GLN:N	2.82	0.47
3:C:583:PHE:CZ	3:C:625:LYS:HG3	2.49	0.47
3:C:599:LYS:HE2	3:C:611:VAL:CG1	2.42	0.47
3:C:721:VAL:CG1	3:C:722:VAL:N	2.78	0.47
3:C:760:ASN:O	3:C:764:LEU:HB2	2.14	0.47
3:C:762:LEU:N	3:C:762:LEU:HD23	2.29	0.47
3:C:955:SER:O	3:C:956:MET:C	2.51	0.47
4:D:222:CYS:O	4:D:223:LYS:C	2.53	0.47
4:D:334:ASP:HA	4:D:337:PHE:CE2	2.50	0.47
4:D:398:PHE:CD1	4:D:429:VAL:HG11	2.50	0.47
4:D:378:PHE:CE2	4:D:541:PRO:HG2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:276:ALA:O	1:E:279:TYR:HB3	2.15	0.47
1:E:349:THR:HG22	1:E:351:SER:HB3	1.97	0.47
2:F:308:GLN:HA	2:F:365:PHE:CD2	2.49	0.47
2:F:428:PHE:CD1	2:F:432:HIS:CE1	3.03	0.47
2:F:447:PHE:O	2:F:447:PHE:CD2	2.68	0.47
2:F:447:PHE:CD2	2:F:447:PHE:C	2.87	0.47
3:G:1035:LEU:O	3:G:1036:LEU:O	2.32	0.47
3:G:1142:ASP:O	3:G:1144:GLN:N	2.47	0.47
3:G:1224:CYS:O	3:G:1225:GLU:C	2.51	0.47
3:G:1357:THR:HG23	3:G:1359:HIS:N	2.29	0.47
3:G:607:VAL:O	3:G:609:VAL:HG12	2.14	0.47
4:H:596:VAL:HG12	4:H:597:ARG:O	2.15	0.47
1:A:129:PRO:HA	1:A:345:PHE:CZ	2.50	0.47
1:A:174:VAL:HA	1:A:177:LEU:CG	2.44	0.47
2:B:152:GLU:OE2	2:B:185:LYS:HE2	2.14	0.47
2:B:311:LEU:O	2:B:312:PHE:C	2.52	0.47
2:B:337:ASP:HB3	2:B:340:LYS:HB2	1.97	0.47
3:C:1222:ARG:NH1	3:C:1222:ARG:HG3	2.30	0.47
3:C:1245:GLN:HG3	3:C:1249:HIS:CE1	2.49	0.47
3:C:1279:PHE:CE1	3:C:1330:LEU:HD23	2.48	0.47
2:B:38:SER:HA	3:C:1447:SER:O	2.15	0.47
3:C:353:TYR:CD2	3:C:354:ASN:ND2	2.83	0.47
3:C:549:ASN:HD21	3:C:552:ASN:CA	2.27	0.47
3:C:919:VAL:HG12	3:C:919:VAL:O	2.14	0.47
3:C:932:GLN:O	3:C:933:ASP:HB2	2.14	0.47
3:C:972:LEU:N	3:C:972:LEU:CD2	2.72	0.47
1:E:106:LEU:HG	1:E:108:PHE:CE1	2.50	0.47
1:E:68:LYS:O	1:E:68:LYS:HD2	2.15	0.47
2:F:137:LYS:HZ1	2:F:181:GLU:CG	2.28	0.47
3:G:1405:LEU:HD23	3:G:1405:LEU:HA	1.58	0.47
3:G:1431:ARG:HG3	3:G:1431:ARG:HH11	1.79	0.47
3:G:579:PHE:HD1	3:G:579:PHE:H	1.61	0.47
3:G:722:VAL:HG12	3:G:723:ILE:H	1.79	0.47
3:G:756:MET:SD	3:G:762:LEU:CD2	3.01	0.47
4:H:210:PHE:CD1	4:H:210:PHE:C	2.88	0.47
4:H:292:LYS:CG	4:H:293:GLU:N	2.58	0.47
1:A:202:VAL:HG21	1:A:299:GLN:N	2.30	0.47
2:B:33:PRO:HD3	2:B:104:PHE:CD2	2.50	0.47
2:B:428:PHE:CE1	2:B:432:HIS:CE1	3.02	0.47
3:C:1098:GLN:NE2	3:C:1111:ASN:OD1	2.48	0.47
3:C:700:LEU:HD21	3:C:764:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:586:VAL:HG11	3:C:742:LEU:HD11	1.96	0.47
3:C:859:LEU:O	3:C:860:ASP:OD1	2.33	0.47
4:D:252:THR:HG23	4:D:305:GLU:HG3	1.95	0.47
4:D:363:LEU:HD13	4:D:562:LEU:HD11	1.97	0.47
4:D:526:TYR:O	4:D:526:TYR:CD2	2.68	0.47
1:E:170:CYS:O	1:E:175:ARG:NH1	2.47	0.47
1:E:48:THR:HB	1:E:77:LYS:HB2	1.96	0.47
2:F:385:PRO:O	2:F:387:ARG:N	2.48	0.47
3:G:1180:CYS:SG	3:G:1193:TYR:CG	3.08	0.47
3:G:1290:ASN:ND2	3:G:1292:TYR:CE1	2.78	0.47
3:G:588:LYS:HD2	3:G:592:CYS:O	2.14	0.47
3:G:661:LYS:O	3:G:663:GLY:N	2.47	0.47
3:G:843:LEU:HD11	3:G:845:LEU:CG	2.44	0.47
3:G:849:VAL:CG1	3:G:1226:PRO:HA	2.45	0.47
3:G:948:ALA:C	3:G:950:LYS:N	2.67	0.47
3:G:990:MET:O	3:G:993:LYS:HB3	2.15	0.47
4:H:435:TYR:CD1	4:H:436:PRO:HA	2.49	0.47
4:H:435:TYR:CD2	4:H:518:MET:CE	2.97	0.47
1:A:390:PRO:HG2	1:A:391:TYR:CE1	2.50	0.47
2:B:419:HIS:O	2:B:422:VAL:HB	2.13	0.47
3:C:1001:GLY:O	3:C:1002:ASP:HB2	2.14	0.47
3:C:1047:LEU:CG	3:C:1049:LEU:CD2	2.81	0.47
3:C:398:LEU:HD12	3:C:470:GLY:HA2	1.96	0.47
3:C:631:PRO:HD2	3:C:688:ARG:HH12	1.80	0.47
3:C:702:ARG:C	3:C:703:CYS:SG	2.93	0.47
1:E:109:ASP:O	1:E:305:LEU:HD22	2.15	0.47
1:E:202:VAL:HG23	1:E:299:GLN:HG3	1.97	0.47
1:E:209:HIS:ND1	1:E:210:PRO:N	2.63	0.47
1:E:141:ILE:HD12	1:E:303:PRO:CD	2.45	0.47
1:E:357:LEU:HA	1:E:360:ILE:HD12	1.95	0.47
2:F:83:PHE:CE2	2:F:99:ASP:HA	2.49	0.47
3:G:1105:ARG:HH11	3:G:1105:ARG:HB2	1.79	0.47
3:G:531:ASP:O	3:G:532:VAL:CG2	2.62	0.47
3:G:558:ILE:O	3:G:558:ILE:CG1	2.62	0.47
3:G:876:PHE:CA	3:G:881:ARG:HH12	2.25	0.47
1:E:96:LEU:HG	3:G:906:LEU:HD23	1.97	0.47
3:G:932:GLN:O	3:G:933:ASP:HB2	2.14	0.47
4:H:196:LEU:CG	4:H:197:GLY:N	2.78	0.47
1:A:187:GLU:OE1	2:B:196:ARG:HG3	2.15	0.47
1:A:204:LEU:HD11	1:A:298:LEU:HD11	1.97	0.47
1:A:40:PHE:CE2	1:A:45:PHE:CZ	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:46:ALA:O	2:B:106:LEU:HD11	2.15	0.47
2:B:225:LYS:O	2:B:228:LYS:HB3	2.14	0.47
2:B:274:ASP:N	2:B:274:ASP:OD2	2.48	0.47
2:B:403:ILE:O	2:B:404:SER:C	2.53	0.47
3:C:1081:ARG:HD2	3:C:1352:THR:O	2.15	0.47
3:C:1281:CYS:SG	3:C:1326:LEU:HD23	2.55	0.47
3:C:528:VAL:HG12	3:C:529:ILE:N	2.30	0.47
3:C:875:CYS:HB2	3:C:912:PRO:HD3	1.96	0.47
3:C:948:ALA:C	3:C:950:LYS:N	2.68	0.47
4:D:510:PRO:HG2	4:D:511:LEU:H	1.78	0.47
1:E:112:MET:HE3	1:E:127:ILE:HG22	1.96	0.47
2:F:369:LYS:C	2:F:371:ILE:N	2.68	0.47
2:F:403:ILE:O	2:F:404:SER:C	2.51	0.47
3:G:1104:SER:O	3:G:1105:ARG:C	2.53	0.47
3:G:413:VAL:HG22	3:G:472:THR:HB	1.96	0.47
3:G:387:LEU:CD2	3:G:479:THR:N	2.78	0.47
3:G:637:HIS:N	3:G:639:ILE:HD11	2.29	0.47
4:H:230:GLU:OE1	4:H:506:ARG:NH2	2.47	0.47
4:H:357:TYR:HB3	4:H:360:LEU:HD23	1.96	0.47
4:H:411:GLU:C	4:H:413:THR:N	2.64	0.47
1:A:357:LEU:HA	1:A:360:ILE:HD12	1.97	0.47
1:A:353:ILE:CB	1:A:386:THR:HG21	2.44	0.47
2:B:323:ALA:O	2:B:327:TRP:HD1	1.98	0.47
3:C:1357:THR:HG23	3:C:1357:THR:O	2.15	0.47
3:C:1384:SER:OG	3:C:1385:ASP:N	2.48	0.47
3:C:547:MET:SD	3:C:728:ILE:HG21	2.55	0.47
3:C:703:CYS:SG	3:C:706:TYR:CZ	3.08	0.47
4:D:185:ARG:H	4:D:185:ARG:CD	2.27	0.47
4:D:426:LEU:HG	4:D:437:GLN:HE21	1.80	0.47
4:D:495:PHE:O	4:D:497:ARG:N	2.47	0.47
3:G:1074:LEU:HD21	3:G:1100:LEU:HD11	1.97	0.47
3:G:1330:LEU:O	3:G:1331:ILE:C	2.52	0.47
3:G:596:TYR:CG	3:G:597:ALA:N	2.83	0.47
4:H:343:LEU:CG	4:H:344:VAL:N	2.78	0.47
4:H:497:ARG:O	4:H:500:LYS:N	2.48	0.47
1:A:187:GLU:OE2	2:B:196:ARG:HD2	2.15	0.47
1:A:292:LEU:HD23	1:A:295:GLU:OE1	2.15	0.47
2:B:154:ILE:HD11	2:B:183:ILE:HG22	1.96	0.47
3:C:1097:GLY:C	3:C:1099:ILE:N	2.68	0.47
3:C:1114:LYS:O	3:C:1117:ILE:HB	2.15	0.47
3:C:1154:HIS:CG	3:C:1155:VAL:H	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1178:VAL:O	3:C:1179:ILE:HD13	2.14	0.47
3:C:1251:TYR:HD1	3:C:1254:ASP:N	2.06	0.47
3:C:487:PHE:O	3:C:488:LEU:C	2.53	0.47
3:C:492:LYS:O	3:C:494:LYS:CD	2.63	0.47
3:C:711:LEU:HB3	3:C:755:ILE:HD13	1.96	0.47
3:C:863:SER:OG	3:C:954:ASN:ND2	2.48	0.47
4:D:357:TYR:CE2	4:D:405:CYS:SG	3.08	0.47
1:E:103:GLU:OE1	1:E:176:LYS:HB3	2.13	0.47
1:E:335:ASP:HB3	1:E:338:LYS:CG	2.44	0.47
2:F:122:GLN:HG2	2:F:123:GLN:NE2	2.29	0.47
2:F:229:ALA:C	2:F:231:ALA:N	2.66	0.47
3:G:1278:ARG:HD3	3:G:1293:ASP:HB3	1.96	0.47
3:G:1348:CYS:O	3:G:1354:ARG:NH1	2.42	0.47
3:G:507:LEU:O	3:G:508:ASN:C	2.53	0.47
3:G:377:CYS:O	3:G:517:GLU:HA	2.15	0.47
3:G:853:ASP:HB3	3:G:854:LYS:CD	2.44	0.47
4:H:224:ILE:HD11	4:H:256:GLN:HB3	1.96	0.47
4:H:266:ASN:OD1	4:H:268:LYS:HB2	2.15	0.47
4:H:345:ALA:HB1	4:H:562:LEU:CD1	2.45	0.47
1:A:397:HIS:O	1:A:401:ASN:ND2	2.49	0.46
1:A:40:PHE:CE2	1:A:45:PHE:HZ	2.33	0.46
2:B:136:PRO:C	2:B:138:ASP:N	2.67	0.46
2:B:22:TYR:HB3	2:B:23:PRO:CD	2.45	0.46
2:B:280:SER:CA	2:B:284:PHE:CE1	2.97	0.46
2:B:445:ASN:O	2:B:448:PHE:CB	2.59	0.46
3:C:519:MET:SD	3:C:520:ALA:N	2.88	0.46
3:C:589:PRO:CG	3:C:592:CYS:CB	2.93	0.46
3:C:689:MET:SD	3:C:776:MET:CG	2.98	0.46
3:C:920:GLU:HA	3:C:923:LYS:HD2	1.95	0.46
3:C:938:LEU:HD12	3:C:941:GLN:HG3	1.97	0.46
3:C:976:VAL:O	3:C:977:THR:C	2.52	0.46
4:D:407:ARG:O	4:D:410:ILE:N	2.48	0.46
1:E:134:LEU:CD2	1:E:226:TYR:HE2	2.28	0.46
1:E:158:VAL:HG13	1:E:332:VAL:C	2.35	0.46
1:E:187:GLU:CD	2:F:196:ARG:HB2	2.35	0.46
1:E:313:ILE:O	1:E:313:ILE:CG1	2.62	0.46
1:E:89:ASN:HD22	1:E:89:ASN:H	1.55	0.46
3:G:1430:TYR:O	3:G:1432:LYS:N	2.49	0.46
3:G:365:VAL:O	3:G:373:HIS:HB3	2.15	0.46
3:G:792:LEU:O	3:G:793:LEU:C	2.53	0.46
3:G:868:ILE:HG23	3:G:872:PHE:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:796:PHE:CE2	3:G:910:ILE:HG21	2.50	0.46
3:G:988:LYS:HG3	3:G:998:VAL:HG11	1.97	0.46
4:H:193:LEU:HD23	4:H:193:LEU:HA	1.69	0.46
4:H:334:ASP:HA	4:H:337:PHE:HD2	1.80	0.46
1:A:158:VAL:HG13	1:A:332:VAL:C	2.35	0.46
1:A:191:LEU:HB2	1:A:302:PHE:CE1	2.51	0.46
1:A:141:ILE:HD13	1:A:303:PRO:HD2	1.97	0.46
1:A:21:PHE:CE2	1:A:321:PHE:O	2.68	0.46
2:B:234:ALA:O	2:B:237:LEU:N	2.36	0.46
3:C:1222:ARG:NH1	3:C:1222:ARG:CG	2.77	0.46
3:C:618:LEU:HD22	3:C:619:LEU:CD2	2.45	0.46
3:C:651:ILE:HG23	3:C:652:ASN:H	1.78	0.46
3:C:722:VAL:HG12	3:C:723:ILE:H	1.81	0.46
3:C:935:ASN:C	3:C:937:ASP:H	2.19	0.46
1:E:112:MET:CE	1:E:127:ILE:HG22	2.45	0.46
1:E:49:LEU:CB	1:E:50:LYS:HZ2	2.27	0.46
3:G:1015:LEU:HD11	3:G:1019:PHE:CD2	2.50	0.46
3:G:1115:ARG:O	3:G:1116:LEU:C	2.52	0.46
3:G:1221:ALA:C	3:G:1223:ILE:H	2.18	0.46
3:G:710:GLU:O	3:G:712:VAL:N	2.48	0.46
3:G:926:LYS:HD2	3:G:926:LYS:HA	1.74	0.46
4:H:228:GLY:O	4:H:229:SER:C	2.52	0.46
1:A:234:LEU:HD21	1:A:243:ILE:CG1	2.45	0.46
2:B:195:PHE:CD1	2:B:195:PHE:C	2.89	0.46
2:B:310:GLY:HA2	2:B:327:TRP:HZ2	1.80	0.46
2:B:443:HIS:O	2:B:446:GLN:HB3	2.15	0.46
3:C:1392:LEU:HD23	3:C:1392:LEU:HA	1.71	0.46
3:C:410:MET:SD	3:C:434:PRO:CB	2.96	0.46
3:C:615:GLU:O	3:C:619:LEU:HD23	2.15	0.46
3:C:346:LEU:HD13	3:C:632:ASP:OD2	2.16	0.46
3:C:639:ILE:HG21	3:C:690:ILE:CG2	2.46	0.46
3:C:742:LEU:O	3:C:743:GLU:C	2.54	0.46
3:C:858:LEU:HD13	3:C:1007:MET:CB	2.46	0.46
4:D:253:LEU:HD11	4:D:314:LEU:HD22	1.96	0.46
2:F:403:ILE:HA	2:F:403:ILE:HD13	1.70	0.46
2:F:22:TYR:HB3	2:F:84:SER:OG	2.15	0.46
2:F:94:GLU:CB	2:F:95:PRO:CD	2.93	0.46
3:G:860:ASP:O	3:G:1038:ILE:HD12	2.16	0.46
3:G:1050:LEU:O	3:G:1051:LYS:HG2	2.14	0.46
3:G:1097:GLY:C	3:G:1099:ILE:N	2.66	0.46
3:G:1223:ILE:O	3:G:1223:ILE:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1430:TYR:O	3:G:1431:ARG:C	2.53	0.46
3:G:610:GLU:HG3	3:G:610:GLU:O	2.15	0.46
3:G:659:TRP:CD2	3:G:660:SER:N	2.82	0.46
3:G:977:THR:O	3:G:981:ARG:NH1	2.47	0.46
3:G:982:GLU:C	3:G:984:LEU:N	2.68	0.46
3:G:984:LEU:O	3:G:987:THR:HB	2.15	0.46
3:G:997:GLU:O	3:G:997:GLU:HG2	2.14	0.46
4:H:407:ARG:NH1	4:H:411:GLU:OE2	2.49	0.46
4:H:546:TYR:O	4:H:547:PHE:CB	2.60	0.46
1:A:113:THR:O	1:A:116:ASP:OD2	2.34	0.46
1:A:209:HIS:CE1	1:A:210:PRO:HB2	2.50	0.46
2:B:251:ASN:C	2:B:252:HIS:HD2	2.18	0.46
2:B:351:HIS:O	2:B:352:SER:C	2.54	0.46
2:B:355:LYS:HZ3	3:C:1247:ARG:NH2	2.13	0.46
2:B:35:GLU:OE2	2:B:97:ARG:NH2	2.49	0.46
2:B:428:PHE:CD1	2:B:432:HIS:CE1	3.03	0.46
2:B:454:ILE:HD12	2:B:454:ILE:HA	1.74	0.46
2:B:81:LEU:HD23	2:B:81:LEU:HA	1.61	0.46
3:C:1055:TYR:C	3:C:1055:TYR:CD1	2.89	0.46
3:C:788:ASN:O	3:C:791:LEU:N	2.49	0.46
3:C:944:ILE:HG13	3:C:947:LYS:HZ1	1.80	0.46
3:C:953:ALA:O	3:C:956:MET:CG	2.64	0.46
2:B:235:ARG:NH1	3:C:978:TYR:CE2	2.84	0.46
4:D:253:LEU:N	4:D:253:LEU:HD23	2.31	0.46
4:D:295:SER:HG	4:D:501:HIS:CE1	2.27	0.46
4:D:553:GLY:O	4:D:586:ARG:NH2	2.48	0.46
1:E:381:ARG:O	1:E:384:LYS:HB2	2.15	0.46
1:E:43:ARG:CZ	1:E:83:VAL:HG22	2.44	0.46
2:F:105:ILE:C	2:F:107:ARG:H	2.18	0.46
2:F:114:GLU:HA	2:F:117:ARG:NH2	2.30	0.46
2:F:280:SER:O	2:F:289:ARG:HD2	2.16	0.46
3:G:864:LEU:C	3:G:864:LEU:CD1	2.84	0.46
3:G:873:ASN:HD21	3:G:878:THR:HG22	1.77	0.46
3:G:804:PRO:HD2	3:G:967:PHE:HE2	1.81	0.46
4:H:475:ASP:OD1	4:H:542:SER:HA	2.14	0.46
1:A:172:GLU:HA	1:A:175:ARG:HH21	1.81	0.46
2:B:286:PRO:HG2	2:B:386:PHE:CZ	2.46	0.46
2:B:447:PHE:C	2:B:447:PHE:CD2	2.89	0.46
3:C:589:PRO:HD3	3:C:732:TYR:HE1	1.81	0.46
3:C:635:VAL:CG2	3:C:752:ILE:HG22	2.34	0.46
3:C:927:GLN:HE22	3:C:930:LYS:HE3	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:202:LEU:HD11	4:D:437:GLN:O	2.14	0.46
4:D:257:ILE:HG23	4:D:270:VAL:HG13	1.96	0.46
2:F:128:LEU:HD23	2:F:219:LEU:CD2	2.45	0.46
2:F:184:TYR:HE1	2:F:210:PRO:O	1.98	0.46
3:G:1236:ALA:O	3:G:1242:ASP:OD2	2.34	0.46
3:G:487:PHE:CE2	3:G:493:ILE:HD11	2.50	0.46
3:G:364:LYS:HE3	3:G:632:ASP:CG	2.33	0.46
3:G:477:PHE:CD1	3:G:802:ILE:HG21	2.50	0.46
3:G:1388:LEU:HD21	4:H:209:MET:HE2	1.97	0.46
3:G:649:GLN:HB3	4:H:248:GLN:NE2	2.31	0.46
4:H:458:GLU:OE1	4:H:459:PRO:HA	2.16	0.46
1:A:142:ILE:HD12	1:A:189:LEU:HD13	1.98	0.46
2:B:144:LEU:O	2:B:145:LYS:C	2.53	0.46
2:B:283:SER:O	2:B:447:PHE:CE2	2.68	0.46
2:B:417:GLY:O	2:B:418:THR:CB	2.64	0.46
2:B:443:HIS:CE1	2:B:445:ASN:CB	2.82	0.46
2:B:94:GLU:HB3	2:B:95:PRO:CD	2.45	0.46
3:C:1141:LYS:HZ1	3:C:1147:PRO:HD2	1.79	0.46
3:C:365:VAL:O	3:C:373:HIS:HB3	2.15	0.46
3:C:784:ARG:HG2	3:C:784:ARG:NH1	2.30	0.46
4:D:287:ASP:HB2	4:D:313:LYS:HE2	1.97	0.46
4:D:363:LEU:O	4:D:367:ILE:HG12	2.16	0.46
1:E:209:HIS:CD2	1:E:210:PRO:HD2	2.51	0.46
1:E:237:LYS:HD2	1:E:256:GLN:OE1	2.15	0.46
1:E:128:CYS:HA	1:E:345:PHE:CZ	2.51	0.46
2:F:234:ALA:O	2:F:237:LEU:N	2.41	0.46
3:G:861:PHE:CD1	3:G:1036:LEU:HD11	2.51	0.46
3:G:1184:SER:O	3:G:1186:LEU:N	2.48	0.46
3:G:1201:GLN:HG2	3:G:1202:ASP:N	2.30	0.46
3:G:1279:PHE:HE1	3:G:1329:LYS:HG3	1.79	0.46
3:G:651:ILE:HG22	3:G:652:ASN:N	2.31	0.46
3:G:799:ASN:O	3:G:801:TYR:CD1	2.67	0.46
3:G:910:ILE:N	3:G:910:ILE:HD12	2.29	0.46
4:H:196:LEU:CD1	4:H:197:GLY:H	2.29	0.46
4:H:288:LEU:O	4:H:291:LEU:N	2.42	0.46
4:H:423:VAL:CG1	4:H:423:VAL:O	2.64	0.46
4:H:509:TYR:CE1	4:H:514:PRO:HB3	2.51	0.46
2:B:26:LEU:HD21	2:B:131:ARG:HB2	1.98	0.46
2:B:136:PRO:CG	2:B:139:LYS:HG2	2.46	0.46
2:B:185:LYS:HG3	2:B:185:LYS:O	2.15	0.46
2:B:311:LEU:HB3	2:B:364:PRO:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1184:SER:O	3:C:1186:LEU:N	2.48	0.46
3:C:711:LEU:HB3	3:C:755:ILE:CD1	2.45	0.46
3:C:910:ILE:N	3:C:910:ILE:HD12	2.30	0.46
3:C:974:ALA:O	3:C:975:LEU:C	2.54	0.46
3:C:1342:TYR:CB	4:D:519:ALA:HB1	2.46	0.46
1:E:76:TYR:N	1:E:76:TYR:CD1	2.84	0.46
2:F:121:ILE:HG21	2:F:223:ARG:HG3	1.96	0.46
2:F:341:PHE:CE1	2:F:345:TYR:CB	2.99	0.46
3:G:1088:ALA:O	3:G:1092:GLY:N	2.42	0.46
3:G:586:VAL:HG11	3:G:742:LEU:HD21	1.98	0.46
3:G:759:LEU:O	3:G:761:VAL:N	2.49	0.46
3:G:954:ASN:ND2	3:G:954:ASN:H	2.13	0.46
3:G:976:VAL:O	3:G:977:THR:C	2.53	0.46
2:B:200:VAL:CG1	2:B:209:VAL:HG13	2.45	0.46
3:C:1160:TRP:CE3	3:C:1161:ILE:HG13	2.47	0.46
3:C:387:LEU:HD23	3:C:476:VAL:HG22	1.98	0.46
3:C:529:ILE:O	3:C:529:ILE:CG2	2.63	0.46
3:C:346:LEU:HD22	3:C:689:MET:HE1	1.96	0.46
3:C:754:GLN:O	3:C:757:CYS:N	2.46	0.46
4:D:243:LEU:CD2	4:D:253:LEU:HB3	2.45	0.46
1:E:237:LYS:HE3	1:E:241:ASP:CG	2.36	0.46
1:E:51:ASP:O	1:E:52:ASP:HB3	2.15	0.46
1:E:57:TYR:CD2	1:E:57:TYR:N	2.83	0.46
2:F:298:ASN:N	2:F:298:ASN:HD22	2.13	0.46
3:G:1130:VAL:HG12	3:G:1198:LEU:HD21	1.98	0.46
3:G:1395:TYR:HA	3:G:1398:ILE:CG1	2.46	0.46
3:G:345:TRP:C	3:G:346:LEU:HG	2.36	0.46
3:G:416:GLU:OE2	3:G:472:THR:OG1	2.28	0.46
3:G:589:PRO:CD	3:G:592:CYS:HB2	2.44	0.46
3:G:609:VAL:HG22	3:G:609:VAL:O	2.15	0.46
3:G:922:ARG:HH12	3:G:950:LYS:HE3	1.79	0.46
4:H:420:LEU:HB3	4:H:422:PHE:CE2	2.51	0.46
1:A:401:ASN:O	1:A:404:LYS:HB2	2.16	0.46
1:A:51:ASP:O	1:A:52:ASP:CB	2.63	0.46
2:B:441:LEU:CD2	2:B:447:PHE:HD1	2.28	0.46
3:C:1006:ILE:O	3:C:1006:ILE:HG22	2.15	0.46
3:C:1045:LYS:N	3:C:1058:LEU:O	2.47	0.46
3:C:1157:VAL:O	3:C:1161:ILE:HG13	2.16	0.46
4:D:191:ILE:HD11	4:D:373:ASP:OD2	2.16	0.46
4:D:306:GLY:C	4:D:314:LEU:HD11	2.37	0.46
4:D:424:PRO:HG2	4:D:458:GLU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:196:LEU:HD23	4:D:468:ILE:HD12	1.98	0.46
1:E:144:ARG:NH1	1:E:211:PHE:CE2	2.84	0.46
1:E:248:PRO:O	1:E:250:THR:N	2.49	0.46
2:F:137:LYS:NZ	2:F:181:GLU:HG2	2.31	0.46
2:F:270:LYS:HA	2:F:270:LYS:CE	2.39	0.46
2:F:29:TYR:CB	2:F:103:HIS:CD2	2.97	0.46
2:F:285:PRO:HB3	2:F:447:PHE:CD2	2.50	0.46
2:F:78:LEU:HD23	2:F:83:PHE:HB2	1.98	0.46
3:G:1130:VAL:CG1	3:G:1198:LEU:HD21	2.46	0.46
3:G:1201:GLN:HG2	3:G:1202:ASP:H	1.81	0.46
1:A:234:LEU:HD21	1:A:243:ILE:HB	1.98	0.46
1:A:382:ASP:CG	1:A:385:LYS:HD2	2.37	0.46
3:C:1083:ASP:HB2	3:C:1135:ILE:CG2	2.44	0.46
3:C:1389:TYR:HD2	3:C:1389:TYR:C	2.19	0.46
3:C:639:ILE:O	3:C:644:LEU:HB3	2.16	0.46
3:C:743:GLU:HG2	3:C:744:HIS:N	2.31	0.46
4:D:360:LEU:O	4:D:363:LEU:HB3	2.16	0.46
1:E:154:HIS:HB3	1:E:402:LEU:HD11	1.96	0.46
1:E:221:LYS:HZ3	1:E:221:LYS:HB2	1.74	0.46
1:E:226:TYR:HA	1:E:230:ASN:HB2	1.98	0.46
1:E:62:ASN:O	1:E:65:ASP:OD2	2.33	0.46
2:F:184:TYR:OH	2:F:211:LEU:HD12	2.16	0.46
2:F:351:HIS:O	2:F:352:SER:C	2.54	0.46
2:F:73:LYS:CA	2:F:76:SER:HB2	2.45	0.46
3:G:1075:LYS:HD2	3:G:1075:LYS:HA	1.76	0.46
3:G:1094:PHE:CE1	3:G:1115:ARG:HG2	2.50	0.46
3:G:498:TRP:HB2	3:G:529:ILE:O	2.16	0.46
3:G:507:LEU:HD21	3:G:517:GLU:HB2	1.98	0.46
3:G:609:VAL:HG21	3:G:742:LEU:HD13	1.97	0.46
3:G:943:ASP:OD1	3:G:943:ASP:C	2.54	0.46
4:H:217:ARG:O	4:H:218:GLU:C	2.53	0.46
4:H:429:VAL:HG22	4:H:430:HIS:N	2.30	0.46
1:A:110:ILE:HD13	1:A:138:ALA:HB1	1.98	0.45
1:A:122:CYS:SG	1:A:127:ILE:HA	2.55	0.45
1:A:50:LYS:HE3	1:A:76:TYR:HE1	1.81	0.45
1:A:95:LYS:HZ1	3:C:881:ARG:N	2.14	0.45
2:B:365:PHE:CG	2:B:369:LYS:HD3	2.50	0.45
2:B:42:PHE:CE1	2:B:105:ILE:HD11	2.51	0.45
3:C:1139:LEU:HD12	3:C:1154:HIS:CD2	2.51	0.45
2:B:351:HIS:NE2	3:C:1231:ASP:OD2	2.49	0.45
3:C:1268:THR:O	3:C:1272:LYS:HB2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1278:ARG:HD3	3:C:1293:ASP:HB3	1.97	0.45
3:C:1334:ILE:O	3:C:1334:ILE:HG22	2.15	0.45
3:C:944:ILE:C	3:C:946:GLN:N	2.69	0.45
4:D:198:CYS:CB	4:D:199:PRO:CD	2.94	0.45
4:D:376:ILE:HG23	4:D:421:VAL:HG12	1.99	0.45
4:D:427:ARG:HH12	4:D:561:ARG:NH1	2.13	0.45
1:E:106:LEU:O	1:E:108:PHE:CE1	2.69	0.45
1:E:157:TRP:HB2	1:E:334:ILE:HB	1.96	0.45
2:F:359:ARG:C	2:F:360:THR:CG2	2.85	0.45
2:F:366:SER:O	2:F:369:LYS:HB3	2.16	0.45
3:G:1257:ASN:C	3:G:1257:ASN:ND2	2.70	0.45
3:G:1334:ILE:HD13	3:G:1392:LEU:HD22	1.98	0.45
3:G:346:LEU:HB3	3:G:689:MET:HE1	1.98	0.45
3:G:615:GLU:OE2	3:G:650:ARG:HB3	2.16	0.45
3:G:661:LYS:O	3:G:662:ILE:C	2.54	0.45
4:H:196:LEU:CG	4:H:197:GLY:H	2.29	0.45
4:H:228:GLY:O	4:H:231:LEU:N	2.50	0.45
4:H:470:GLY:C	4:H:471:LEU:HD23	2.34	0.45
1:A:174:VAL:HG13	1:A:177:LEU:CD1	2.45	0.45
1:A:27:TYR:O	1:A:31:ASN:HB3	2.15	0.45
2:B:295:LEU:HB2	2:B:301:LEU:CD1	2.46	0.45
3:C:1236:ALA:HB2	3:C:1246:PHE:CE1	2.51	0.45
3:C:1340:LYS:HD3	3:C:1383:TYR:CD1	2.51	0.45
3:C:1423:THR:HG23	3:C:1426:VAL:CG2	2.46	0.45
3:C:343:PHE:HB2	3:C:365:VAL:CG1	2.46	0.45
3:C:487:PHE:CE2	3:C:493:ILE:HD11	2.51	0.45
3:C:519:MET:SD	3:C:519:MET:C	2.94	0.45
3:C:585:VAL:CG1	3:C:621:PHE:HD2	2.29	0.45
4:D:360:LEU:HD11	4:D:409:ILE:CG1	2.46	0.45
4:D:514:PRO:O	4:D:515:GLN:C	2.54	0.45
1:E:183:SER:OG	1:E:311:LYS:HG3	2.16	0.45
1:E:198:VAL:O	1:E:201:LYS:HE2	2.17	0.45
1:E:199:LYS:NZ	1:E:242:LYS:HG3	2.31	0.45
1:E:57:TYR:N	1:E:57:TYR:HD2	2.14	0.45
2:F:136:PRO:C	2:F:138:ASP:N	2.68	0.45
2:F:387:ARG:HG3	2:F:388:HIS:N	2.31	0.45
3:G:1019:PHE:O	3:G:1020:LYS:C	2.53	0.45
3:G:345:TRP:HA	3:G:363:GLY:HA3	1.98	0.45
3:G:387:LEU:HD21	3:G:479:THR:N	2.32	0.45
3:G:788:ASN:O	3:G:791:LEU:N	2.49	0.45
3:G:917:LYS:HA	3:G:920:GLU:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:312:ARG:O	4:H:313:LYS:HB2	2.15	0.45
4:H:319:LEU:O	4:H:320:TYR:C	2.53	0.45
4:H:375:CYS:HB2	4:H:420:LEU:HD22	1.98	0.45
4:H:428:ASP:O	4:H:430:HIS:N	2.48	0.45
4:H:460:CYS:N	4:H:471:LEU:O	2.44	0.45
4:H:476:LEU:HD22	4:H:508:TYR:O	2.16	0.45
1:A:255:LEU:HD11	1:A:272:LEU:CD1	2.33	0.45
1:A:43:ARG:HG3	1:A:45:PHE:CZ	2.50	0.45
2:B:47:ILE:CD1	2:B:260:GLN:HE22	2.25	0.45
2:B:421:GLN:O	2:B:424:CYS:N	2.49	0.45
3:C:1454:LEU:HG	3:C:1455:PHE:CD1	2.51	0.45
3:C:417:PHE:HE1	3:C:464:LEU:HD11	1.80	0.45
3:C:470:GLY:HA3	3:C:473:PHE:CE1	2.52	0.45
3:C:637:HIS:NE2	3:C:708:LEU:N	2.64	0.45
3:C:697:ALA:HB1	3:C:711:LEU:HD21	1.97	0.45
1:E:159:TYR:HB3	1:E:332:VAL:H	1.81	0.45
1:E:343:ASP:HB3	1:E:346:THR:OG1	2.17	0.45
2:F:105:ILE:HG22	2:F:106:LEU:H	1.80	0.45
2:F:210:PRO:O	2:F:214:ILE:HB	2.16	0.45
2:F:262:TYR:HD1	2:F:263:SER:CA	2.28	0.45
2:F:280:SER:HA	2:F:284:PHE:CE1	2.49	0.45
3:G:1015:LEU:HD11	3:G:1019:PHE:HD2	1.80	0.45
3:G:1043:VAL:O	3:G:1060:VAL:HG23	2.16	0.45
3:G:1389:TYR:CD2	3:G:1389:TYR:O	2.69	0.45
3:G:430:PHE:H	3:G:430:PHE:HD2	1.58	0.45
3:G:560:MET:HE3	3:G:647:LEU:HD11	1.97	0.45
4:H:199:PRO:O	4:H:201:ALA:N	2.48	0.45
4:H:202:LEU:HD23	4:H:202:LEU:C	2.37	0.45
4:H:292:LYS:HD2	4:H:293:GLU:H	1.81	0.45
4:H:298:PRO:HD3	4:H:483:GLU:O	2.17	0.45
4:H:313:LYS:HE2	4:H:313:LYS:HB3	1.74	0.45
4:H:327:PHE:N	4:H:327:PHE:CD1	2.84	0.45
4:H:424:PRO:HG2	4:H:458:GLU:CB	2.47	0.45
4:H:202:LEU:HB2	4:H:528:TYR:CE2	2.50	0.45
2:B:124:GLU:HA	2:B:124:GLU:OE1	2.17	0.45
2:B:280:SER:HA	2:B:284:PHE:HD1	1.74	0.45
2:B:300:HIS:CG	2:B:301:LEU:N	2.85	0.45
3:C:1441:LEU:CD2	3:C:1441:LEU:N	2.79	0.45
3:C:341:PHE:CD1	3:C:341:PHE:O	2.70	0.45
3:C:720:ARG:O	3:C:720:ARG:CD	2.65	0.45
3:C:752:ILE:O	3:C:752:ILE:CG2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:873:ASN:CG	3:C:873:ASN:O	2.53	0.45
3:C:917:LYS:HA	3:C:920:GLU:HB2	1.99	0.45
4:D:324:PRO:HD3	4:D:504:THR:HG22	1.98	0.45
4:D:480:LEU:HA	4:D:480:LEU:HD13	1.67	0.45
4:D:499:LEU:HD22	4:D:556:CYS:SG	2.56	0.45
2:F:367:CYS:SG	2:F:443:HIS:HA	2.56	0.45
2:F:445:ASN:O	2:F:448:PHE:CB	2.61	0.45
3:G:1081:ARG:NH1	3:G:1081:ARG:CG	2.76	0.45
3:G:1359:HIS:HD2	3:G:1360:LEU:N	2.14	0.45
3:G:486:LEU:CD2	3:G:490:ASN:ND2	2.79	0.45
3:G:655:LYS:HD3	3:G:655:LYS:O	2.16	0.45
3:G:853:ASP:HB3	3:G:854:LYS:CE	2.47	0.45
3:G:878:THR:O	3:G:902:PRO:HB3	2.16	0.45
3:G:935:ASN:C	3:G:937:ASP:H	2.20	0.45
3:G:956:MET:HA	3:G:956:MET:CE	2.46	0.45
4:H:346:CYS:SG	4:H:378:PHE:HB2	2.55	0.45
1:A:228:LEU:CD2	1:A:233:ILE:HG12	2.42	0.45
2:B:243:ASP:CG	2:B:246:LEU:HG	2.37	0.45
2:B:246:LEU:HD23	2:B:246:LEU:N	2.30	0.45
3:C:1253:LYS:O	3:C:1254:ASP:C	2.55	0.45
3:C:588:LYS:HB2	3:C:589:PRO:HD2	1.99	0.45
3:C:792:LEU:O	3:C:793:LEU:C	2.54	0.45
4:D:364:ILE:HA	4:D:367:ILE:HG13	1.98	0.45
4:D:532:PRO:HG2	4:D:533:VAL:N	2.27	0.45
4:D:535:PRO:O	4:D:554:CYS:SG	2.71	0.45
2:F:114:GLU:HA	2:F:117:ARG:CZ	2.46	0.45
2:F:138:ASP:O	2:F:142:ASP:OD1	2.33	0.45
2:F:23:PRO:CD	2:F:25:CYS:HB2	2.47	0.45
2:F:258:THR:O	2:F:260:GLN:N	2.49	0.45
3:G:1047:LEU:CD1	3:G:1057:ALA:HB2	2.45	0.45
3:G:1135:ILE:HB	3:G:1177:TYR:CZ	2.51	0.45
3:G:1253:LYS:O	3:G:1254:ASP:C	2.55	0.45
3:G:1307:LEU:HD13	3:G:1430:TYR:CZ	2.52	0.45
3:G:643:GLU:O	3:G:644:LEU:C	2.53	0.45
3:G:944:ILE:O	3:G:945:ARG:C	2.55	0.45
3:G:982:GLU:HA	3:G:985:MET:HE3	1.98	0.45
1:A:147:LYS:HG2	1:A:148:GLU:HG3	1.99	0.45
1:A:200:LYS:CD	1:A:246:LEU:HB3	2.47	0.45
2:B:188:PHE:C	2:B:188:PHE:CD1	2.90	0.45
2:B:210:PRO:O	2:B:214:ILE:HB	2.16	0.45
2:B:48:ASP:O	2:B:50:VAL:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1335:ARG:NH2	4:D:433:PRO:HB3	2.31	0.45
3:C:531:ASP:C	3:G:366:TRP:CD1	2.90	0.45
3:C:539:VAL:HG13	3:C:540:MET:N	2.32	0.45
3:C:622:PHE:HE2	3:C:647:LEU:HD11	1.81	0.45
3:C:966:ARG:O	3:C:967:PHE:HD2	1.99	0.45
3:C:1362:LEU:CD2	4:D:273:GLU:HG2	2.46	0.45
1:E:144:ARG:CD	1:E:218:ILE:HD11	2.46	0.45
1:E:223:PHE:CE2	1:E:269:TRP:CZ2	3.05	0.45
2:F:276:ILE:CA	2:F:279:LEU:HG	2.46	0.45
2:F:283:SER:O	2:F:447:PHE:HE2	1.99	0.45
2:F:367:CYS:CB	2:F:421:GLN:NE2	2.77	0.45
2:F:446:GLN:HG2	2:F:447:PHE:N	2.30	0.45
3:G:1034:LYS:C	3:G:1035:LEU:HD23	2.37	0.45
3:G:851:PHE:CE2	3:G:1108:ILE:CD1	2.99	0.45
3:G:563:LEU:HD22	3:G:582:HIS:HB2	1.99	0.45
3:G:944:ILE:C	3:G:946:GLN:N	2.69	0.45
4:H:240:PHE:HA	4:H:252:THR:O	2.16	0.45
4:H:453:VAL:CG1	4:H:454:GLN:N	2.79	0.45
4:H:343:LEU:CD1	4:H:571:PHE:HD1	2.27	0.45
1:A:110:ILE:HD11	1:A:157:TRP:HH2	1.80	0.45
1:A:195:GLY:O	1:A:197:ASP:N	2.49	0.45
1:A:210:PRO:HG2	2:B:201:TYR:HE2	1.81	0.45
2:B:33:PRO:CD	2:B:104:PHE:HD2	2.30	0.45
3:C:1081:ARG:HH11	3:C:1081:ARG:HG2	1.82	0.45
3:C:1139:LEU:CD1	3:C:1154:HIS:CD2	2.99	0.45
3:C:351:ASP:O	3:C:355:GLN:C	2.55	0.45
3:C:585:VAL:O	3:C:585:VAL:HG22	2.17	0.45
3:C:618:LEU:O	3:C:621:PHE:HB3	2.16	0.45
3:C:742:LEU:O	3:C:745:THR:HB	2.17	0.45
4:D:297:PHE:HD1	4:D:298:PRO:O	2.00	0.45
4:D:429:VAL:HG13	4:D:430:HIS:N	2.30	0.45
4:D:484:GLU:OE2	4:D:485:ILE:O	2.34	0.45
4:D:512:TYR:CD2	4:D:512:TYR:C	2.86	0.45
1:E:26:TYR:CD2	1:E:66:LEU:HD21	2.52	0.45
1:E:41:GLN:H	1:E:41:GLN:CD	2.20	0.45
2:F:146:ASP:N	2:F:146:ASP:OD2	2.50	0.45
2:F:150:GLN:C	2:F:151:PHE:CG	2.90	0.45
1:E:187:GLU:OE2	2:F:196:ARG:HB2	2.17	0.45
2:F:253:LEU:HA	2:F:253:LEU:HD23	1.77	0.45
3:G:1155:VAL:HG12	3:G:1159:LEU:HD12	1.97	0.45
3:G:1151:SER:C	3:G:1189:SER:HB3	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1386:LYS:C	3:G:1386:LYS:HD3	2.36	0.45
3:G:512:SER:O	3:G:517:GLU:OE2	2.35	0.45
4:H:271:ILE:HD12	4:H:272:LEU:O	2.16	0.45
1:A:111:ASP:CG	1:A:112:MET:H	2.20	0.45
1:A:267:GLN:O	1:A:267:GLN:HG2	2.17	0.45
1:A:234:LEU:O	1:A:268:ARG:HD2	2.17	0.45
1:A:20:LEU:CD2	1:A:383:TYR:HA	2.47	0.45
2:B:29:TYR:CB	2:B:103:HIS:CD2	3.00	0.45
2:B:382:HIS:CD2	2:B:382:HIS:C	2.90	0.45
3:C:1047:LEU:HD12	3:C:1048:LEU:H	1.81	0.45
3:C:1210:TYR:O	3:C:1214:GLN:N	2.42	0.45
3:C:583:PHE:CD2	3:C:625:LYS:HE2	2.52	0.45
3:C:731:MET:CG	3:C:737:GLN:HB3	2.41	0.45
3:C:962:PHE:HD2	3:C:965:SER:HB2	1.82	0.45
4:D:256:GLN:O	4:D:272:LEU:HD12	2.17	0.45
4:D:297:PHE:CZ	4:D:300:GLN:HA	2.52	0.45
4:D:193:LEU:HD12	4:D:454:GLN:OE1	2.16	0.45
1:E:49:LEU:HD23	1:E:75:PRO:HA	1.99	0.45
2:F:301:LEU:HD22	2:F:305:GLY:HA3	1.99	0.45
2:F:312:PHE:HD2	2:F:313:LEU:HD23	1.80	0.45
3:G:1047:LEU:HG	3:G:1049:LEU:HD22	1.98	0.45
3:G:1140:THR:O	3:G:1140:THR:CG2	2.60	0.45
3:G:1242:ASP:O	3:G:1246:PHE:HB2	2.17	0.45
3:G:1384:SER:OG	3:G:1385:ASP:N	2.49	0.45
3:G:541:ALA:HA	3:G:635:VAL:HG13	1.99	0.45
4:H:479:HIS:CD2	4:H:515:GLN:HB2	2.52	0.45
3:C:1139:LEU:HD12	3:C:1139:LEU:N	2.30	0.45
3:C:1207:ASP:O	3:C:1208:THR:C	2.55	0.45
3:C:1307:LEU:CD1	3:C:1307:LEU:H	2.26	0.45
3:C:360:PHE:HD1	3:C:665:LEU:CD1	2.14	0.45
3:C:344:TYR:HB2	3:C:498:TRP:CZ2	2.52	0.45
3:C:803:VAL:CB	3:C:804:PRO:CD	2.88	0.45
4:D:196:LEU:CD1	4:D:197:GLY:H	2.29	0.45
4:D:312:ARG:O	4:D:313:LYS:HB2	2.16	0.45
4:D:357:TYR:HB3	4:D:360:LEU:HD23	1.99	0.45
4:D:447:ARG:HG2	4:D:447:ARG:NH1	2.32	0.45
4:D:532:PRO:CG	4:D:533:VAL:H	2.29	0.45
4:D:573:ARG:NH2	4:D:596:VAL:HG21	2.32	0.45
1:E:133:THR:HG21	1:E:226:TYR:HB2	1.98	0.45
2:F:139:LYS:HD2	2:F:139:LYS:HA	1.73	0.45
2:F:369:LYS:C	2:F:371:ILE:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:439:PHE:CD2	2:F:450:GLU:HG2	2.51	0.45
3:G:491:ARG:N	3:G:491:ARG:HD2	2.32	0.45
3:G:582:HIS:O	3:G:583:PHE:HB3	2.17	0.45
3:G:653:VAL:HG12	3:G:654:CYS:SG	2.57	0.45
3:G:908:MET:HG3	3:G:916:ARG:HE	1.82	0.45
3:G:926:LYS:NZ	3:G:926:LYS:O	2.49	0.45
4:H:186:GLY:HA3	4:H:371:ARG:CZ	2.47	0.45
4:H:257:ILE:CD1	4:H:302:VAL:HG21	2.47	0.45
4:H:324:PRO:N	4:H:504:THR:HG22	2.31	0.45
1:A:302:PHE:CE1	1:A:303:PRO:O	2.70	0.45
1:A:179:SER:OG	1:A:311:LYS:O	2.33	0.45
1:A:393:LYS:HZ2	1:A:396:GLU:CD	2.20	0.45
2:B:121:ILE:CD1	2:B:226:LEU:HD23	2.47	0.45
3:C:1213:ALA:O	3:C:1218:PRO:HD3	2.17	0.45
3:C:1345:TRP:CZ3	3:C:1358:ARG:CG	3.00	0.45
3:C:391:PRO:HA	3:C:472:THR:O	2.16	0.45
3:C:589:PRO:HG3	3:C:592:CYS:CB	2.47	0.45
3:C:659:TRP:NE1	3:C:660:SER:HB2	2.32	0.45
3:C:689:MET:SD	3:C:776:MET:HB3	2.56	0.45
4:D:411:GLU:CG	4:D:414:ARG:HH12	2.29	0.45
4:D:447:ARG:HH22	4:D:450:LYS:CG	2.30	0.45
1:E:159:TYR:CE2	1:E:161:GLY:HA2	2.52	0.45
2:F:39:LEU:HD11	2:F:245:ARG:CG	2.47	0.45
2:F:428:PHE:CD2	2:F:437:CYS:HB2	2.53	0.45
2:F:443:HIS:O	2:F:446:GLN:HB3	2.17	0.45
3:G:1193:TYR:N	3:G:1193:TYR:CD1	2.85	0.45
3:G:1227:ILE:CG2	3:G:1230:ILE:HG12	2.47	0.45
3:G:1320:LEU:HD11	3:G:1425:LYS:HE3	1.99	0.45
3:G:586:VAL:CG1	3:G:742:LEU:HD21	2.47	0.45
3:G:710:GLU:O	3:G:711:LEU:C	2.55	0.45
3:G:795:ALA:O	3:G:796:PHE:C	2.55	0.45
3:G:806:LYS:NZ	3:G:807:GLN:O	2.32	0.45
1:A:104:LYS:HE2	1:A:314:ASN:C	2.38	0.44
1:A:147:LYS:HB2	1:A:155:ARG:NH1	2.32	0.44
1:A:68:LYS:HE3	1:A:72:LYS:CE	2.46	0.44
2:B:429:GLU:O	2:B:433:ASN:N	2.50	0.44
2:B:22:TYR:CB	2:B:84:SER:HB3	2.47	0.44
3:C:1376:LYS:O	3:C:1376:LYS:HG3	2.17	0.44
3:C:625:LYS:HB3	3:C:629:ILE:CD1	2.46	0.44
3:C:349:TYR:HD1	3:C:665:LEU:CD1	2.30	0.44
3:C:723:ILE:HA	3:C:724:PRO:HD3	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:774:ASN:CG	3:C:775:ILE:H	2.17	0.44
3:C:875:CYS:N	3:C:878:THR:OG1	2.51	0.44
3:C:969:ALA:C	3:C:971:PRO:HD2	2.38	0.44
4:D:459:PRO:CB	4:D:471:LEU:O	2.65	0.44
1:E:84:TYR:HD1	1:E:100:GLN:C	2.20	0.44
1:E:402:LEU:C	1:E:406:ARG:NH1	2.70	0.44
2:F:241:GLN:HB3	2:F:241:GLN:HE21	1.62	0.44
3:G:1076:GLY:O	3:G:1077:LEU:HD23	2.18	0.44
3:G:1332:MET:HE1	3:G:1335:ARG:HD2	1.98	0.44
3:G:537:LEU:HD12	3:G:570:LEU:HD21	1.99	0.44
3:G:647:LEU:O	3:G:649:GLN:N	2.50	0.44
3:G:849:VAL:HG12	3:G:1226:PRO:HA	1.99	0.44
4:H:343:LEU:O	4:H:344:VAL:CG2	2.63	0.44
4:H:398:PHE:O	4:H:399:GLU:C	2.56	0.44
4:H:589:PRO:O	4:H:591:ILE:CD1	2.65	0.44
2:B:111:CYS:HB2	2:B:233:THR:OG1	2.17	0.44
2:B:344:GLY:HA2	3:C:1113:GLN:NE2	2.32	0.44
3:C:1021:LEU:O	3:C:1022:GLY:C	2.52	0.44
3:C:1095:VAL:HG12	3:C:1112:ILE:CD1	2.36	0.44
3:C:1096:ILE:HD13	3:C:1096:ILE:O	2.17	0.44
3:C:786:GLU:O	3:C:787:ARG:C	2.55	0.44
3:C:971:PRO:O	3:C:972:LEU:C	2.55	0.44
4:D:287:ASP:HB2	4:D:313:LYS:CE	2.47	0.44
4:D:399:GLU:CG	4:D:403:LYS:HE2	2.40	0.44
4:D:447:ARG:NH2	4:D:450:LYS:HG3	2.32	0.44
4:D:480:LEU:HA	4:D:511:LEU:HD22	1.99	0.44
1:E:146:LEU:O	1:E:150:PHE:HB2	2.18	0.44
1:E:153:LYS:N	1:E:171:ASP:OD2	2.50	0.44
1:E:62:ASN:H	1:E:65:ASP:CG	2.19	0.44
2:F:214:ILE:HG22	2:F:215:VAL:N	2.31	0.44
2:F:371:ILE:HG22	2:F:372:LEU:HD23	1.99	0.44
3:G:1036:LEU:CD1	3:G:1037:GLU:H	2.28	0.44
3:G:1105:ARG:O	3:G:1109:VAL:HG23	2.17	0.44
3:G:1117:ILE:O	3:G:1121:GLU:HG3	2.17	0.44
3:G:1154:HIS:CG	3:G:1155:VAL:H	2.34	0.44
3:G:1146:TYR:CG	3:G:1155:VAL:HG21	2.48	0.44
3:G:1356:ARG:HH11	3:G:1356:ARG:HG2	1.82	0.44
3:G:1433:LEU:O	3:G:1436:THR:HB	2.17	0.44
3:G:351:ASP:O	3:G:355:GLN:C	2.55	0.44
3:G:427:ILE:C	3:G:428:MET:HE3	2.37	0.44
3:G:439:TYR:O	3:G:448:GLU:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:560:MET:CE	3:G:647:LEU:CD1	2.95	0.44
3:G:725:MET:HA	3:G:728:ILE:CG1	2.48	0.44
3:G:747:LYS:O	3:G:750:LYS:HB3	2.16	0.44
3:G:777:SER:O	3:G:778:ARG:C	2.56	0.44
1:A:176:LYS:HG3	1:A:176:LYS:O	2.17	0.44
1:A:177:LEU:HB2	1:A:182:ARG:NE	2.32	0.44
2:B:105:ILE:C	2:B:107:ARG:H	2.21	0.44
3:C:1339:LYS:O	3:C:1342:TYR:N	2.50	0.44
3:C:1350:GLU:HA	3:C:1351:PRO:HD3	1.80	0.44
3:C:1294:ASN:OD1	3:C:1397:TYR:CZ	2.71	0.44
3:C:522:LYS:CE	3:C:525:LEU:HD21	2.47	0.44
3:C:596:TYR:CD1	3:C:597:ALA:N	2.85	0.44
3:C:643:GLU:O	3:C:644:LEU:C	2.56	0.44
3:C:630:ASP:HA	3:C:688:ARG:HH22	1.82	0.44
3:C:732:TYR:CD2	3:C:738:LEU:CD1	2.99	0.44
3:C:740:TYR:C	3:C:740:TYR:CD1	2.90	0.44
3:C:859:LEU:CD2	3:C:1040:ILE:HD13	2.46	0.44
3:C:941:GLN:NE2	3:G:371:GLU:OE1	2.50	0.44
4:D:275:ASP:OD2	4:D:277:GLU:HB3	2.18	0.44
4:D:291:LEU:HD12	4:D:291:LEU:HA	1.72	0.44
4:D:447:ARG:NH2	4:D:450:LYS:CB	2.80	0.44
4:D:475:ASP:OD1	4:D:478:PHE:CB	2.65	0.44
4:D:555:VAL:HG12	4:D:557:VAL:HG23	1.99	0.44
2:F:69:GLN:O	2:F:73:LYS:HG3	2.17	0.44
3:G:861:PHE:HB2	3:G:1004:ASP:HB2	1.99	0.44
3:G:1097:GLY:O	3:G:1098:GLN:C	2.55	0.44
3:G:1337:PHE:N	3:G:1337:PHE:HD1	2.15	0.44
3:G:1337:PHE:N	3:G:1337:PHE:CD1	2.84	0.44
3:G:358:VAL:HA	3:G:380:VAL:O	2.17	0.44
3:G:366:TRP:O	3:G:367:ILE:HD13	2.17	0.44
3:G:487:PHE:O	3:G:489:MET:N	2.50	0.44
3:G:556:GLU:HG2	3:G:650:ARG:HH21	1.82	0.44
3:G:918:LEU:HD12	3:G:953:ALA:HB2	2.00	0.44
4:H:479:HIS:CE1	4:H:509:TYR:HH	2.30	0.44
1:A:209:HIS:ND1	1:A:211:PHE:N	2.65	0.44
2:B:49:ARG:CB	2:B:106:LEU:HD12	2.45	0.44
2:B:376:PRO:HD2	2:B:388:HIS:HD2	1.77	0.44
2:B:39:LEU:O	2:B:43:GLU:HB2	2.17	0.44
2:B:70:TYR:O	2:B:74:LEU:HB2	2.18	0.44
3:C:1097:GLY:O	3:C:1098:GLN:C	2.55	0.44
3:C:1133:PHE:N	3:C:1133:PHE:CD2	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1214:GLN:O	3:C:1218:PRO:HG2	2.17	0.44
3:C:1388:LEU:O	3:C:1390:THR:N	2.50	0.44
3:C:345:TRP:HA	3:C:363:GLY:HA3	2.00	0.44
3:C:388:TYR:HB2	3:C:477:PHE:HB2	1.99	0.44
3:C:418:ASP:OD2	3:C:418:ASP:C	2.56	0.44
3:C:542:PHE:O	3:C:542:PHE:CG	2.69	0.44
3:C:576:LYS:HB2	3:C:576:LYS:HE3	1.82	0.44
3:C:607:VAL:HG23	3:C:609:VAL:CG1	2.34	0.44
3:C:731:MET:CE	3:C:741:LEU:HD22	2.48	0.44
4:D:226:GLU:O	4:D:227:LEU:C	2.53	0.44
1:E:112:MET:HB3	1:E:163:ARG:HB2	1.97	0.44
2:F:411:ILE:HG22	2:F:412:LEU:N	2.32	0.44
2:F:443:HIS:CE1	2:F:445:ASN:HB2	2.53	0.44
2:F:443:HIS:ND1	2:F:445:ASN:N	2.66	0.44
2:F:312:PHE:CD1	2:F:445:ASN:OD1	2.71	0.44
2:F:94:GLU:HB3	2:F:95:PRO:CD	2.45	0.44
3:G:637:HIS:CD2	3:G:708:LEU:HD13	2.52	0.44
3:G:689:MET:SD	3:G:776:MET:CG	2.87	0.44
3:G:948:ALA:O	3:G:950:LYS:N	2.51	0.44
4:H:383:ASP:C	4:H:385:LYS:N	2.70	0.44
4:H:495:PHE:C	4:H:497:ARG:N	2.70	0.44
1:A:112:MET:N	1:A:163:ARG:O	2.51	0.44
1:A:13:LEU:HD13	1:A:74:ASN:O	2.17	0.44
2:B:258:THR:HG21	2:B:261:ASP:HB2	2.00	0.44
2:B:29:TYR:CD1	2:B:103:HIS:CD2	3.06	0.44
2:B:367:CYS:O	2:B:369:LYS:N	2.51	0.44
2:B:367:CYS:C	2:B:369:LYS:N	2.67	0.44
3:C:1035:LEU:O	3:C:1036:LEU:O	2.36	0.44
3:C:1054:LYS:HG3	3:C:1076:GLY:HA3	2.00	0.44
3:C:1185:ASN:O	3:C:1186:LEU:O	2.35	0.44
3:C:1423:THR:O	3:C:1424:PRO:C	2.55	0.44
3:C:381:LYS:O	3:C:521:LEU:O	2.36	0.44
3:C:610:GLU:HG3	3:C:610:GLU:O	2.17	0.44
3:C:777:SER:O	3:C:778:ARG:C	2.56	0.44
3:C:880:GLN:O	3:C:899:PRO:HB3	2.18	0.44
3:C:935:ASN:O	3:C:938:LEU:N	2.50	0.44
4:D:199:PRO:O	4:D:201:ALA:N	2.50	0.44
4:D:259:CYS:SG	4:D:260:ASP:N	2.90	0.44
4:D:319:LEU:O	4:D:319:LEU:HG	2.18	0.44
4:D:194:LYS:CE	4:D:463:SER:OG	2.54	0.44
1:E:37:LYS:C	1:E:38:ASN:ND2	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:ASP:N	1:E:406:ARG:NH1	2.66	0.44
1:E:403:ASP:CA	1:E:406:ARG:NH1	2.81	0.44
3:G:1026:LYS:O	3:G:1027:SER:C	2.56	0.44
3:G:1363:GLN:OE1	3:G:1370:LEU:HD23	2.17	0.44
3:G:1398:ILE:O	3:G:1399:PHE:CD1	2.70	0.44
3:G:1415:ASP:HA	3:G:1418:LYS:HB3	1.99	0.44
3:G:392:ARG:O	3:G:408:ILE:HB	2.17	0.44
3:G:439:TYR:C	3:G:439:TYR:CD2	2.91	0.44
3:G:637:HIS:O	3:G:643:GLU:OE2	2.36	0.44
3:G:739:LEU:HD13	3:G:742:LEU:CD1	2.30	0.44
3:G:873:ASN:HD21	3:G:878:THR:HG21	1.78	0.44
3:G:974:ALA:O	3:G:975:LEU:C	2.55	0.44
4:H:257:ILE:HD11	4:H:302:VAL:HG21	1.98	0.44
4:H:531:LEU:N	4:H:531:LEU:CD2	2.79	0.44
1:A:194:GLY:HA2	1:A:201:LYS:HD3	2.00	0.44
1:A:1:MET:HE3	1:A:329:ARG:HH21	1.81	0.44
1:A:159:TYR:N	1:A:332:VAL:O	2.49	0.44
2:B:165:GLU:HB3	2:B:201:TYR:CE2	2.53	0.44
3:C:1231:ASP:OD1	3:C:1231:ASP:C	2.55	0.44
3:C:1416:LYS:NZ	3:C:1420:GLN:OE1	2.45	0.44
3:C:498:TRP:HB2	3:C:529:ILE:O	2.17	0.44
3:C:948:ALA:O	3:C:950:LYS:N	2.51	0.44
3:C:875:CYS:O	3:C:972:LEU:HD11	2.18	0.44
4:D:351:THR:HG23	4:D:354:SER:OG	2.17	0.44
1:E:386:THR:C	1:E:388:LEU:H	2.20	0.44
2:F:150:GLN:C	2:F:151:PHE:CD1	2.90	0.44
2:F:285:PRO:CA	2:F:447:PHE:CE2	3.00	0.44
3:G:1160:TRP:HE3	3:G:1161:ILE:CG1	2.30	0.44
3:G:1175:VAL:CG1	3:G:1176:SER:N	2.81	0.44
3:G:1050:LEU:CD2	3:G:1226:PRO:HG2	2.48	0.44
3:G:1389:TYR:HE1	3:G:1447:SER:HA	1.82	0.44
3:G:583:PHE:C	3:G:583:PHE:HD1	2.21	0.44
3:G:753:LEU:O	3:G:756:MET:HB3	2.18	0.44
3:G:843:LEU:C	3:G:843:LEU:HD12	2.36	0.44
3:G:852:TYR:HD1	3:G:1009:ASN:ND2	2.05	0.44
3:G:915:ILE:HG22	3:G:915:ILE:O	2.17	0.44
3:G:969:ALA:C	3:G:971:PRO:HD2	2.37	0.44
4:H:206:TYR:HE1	4:H:434:VAL:HG11	1.83	0.44
4:H:226:GLU:O	4:H:227:LEU:C	2.56	0.44
4:H:564:LYS:O	4:H:565:GLY:C	2.55	0.44
1:A:192:VAL:HG23	1:A:302:PHE:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:ARG:HE	1:A:83:VAL:HG23	1.82	0.44
2:B:120:PHE:O	2:B:121:ILE:C	2.55	0.44
3:C:1101:SER:OG	3:C:1103:GLN:HG3	2.17	0.44
3:C:1137:LYS:NZ	3:C:1153:PRO:HG2	2.32	0.44
3:C:1221:ALA:C	3:C:1223:ILE:H	2.20	0.44
3:C:360:PHE:CE1	3:C:665:LEU:HD21	2.53	0.44
3:C:745:THR:HG22	3:C:746:TRP:N	2.32	0.44
3:C:801:TYR:CE1	3:C:910:ILE:HD11	2.53	0.44
3:C:868:ILE:C	3:C:870:GLN:H	2.21	0.44
4:D:156:THR:HG22	4:D:159:GLN:CB	2.47	0.44
4:D:228:GLY:O	4:D:231:LEU:N	2.51	0.44
4:D:237:ILE:HD11	4:D:320:TYR:CE1	2.52	0.44
4:D:351:THR:OG1	4:D:353:ASP:OD1	2.30	0.44
4:D:361:LEU:HA	4:D:364:ILE:CG1	2.47	0.44
2:F:45:LEU:CD1	2:F:101:ILE:CG2	2.95	0.44
2:F:382:HIS:C	2:F:382:HIS:CD2	2.91	0.44
2:F:67:THR:O	2:F:70:TYR:HB3	2.18	0.44
3:G:1004:ASP:N	3:G:1004:ASP:OD2	2.51	0.44
3:G:1151:SER:O	3:G:1189:SER:HB3	2.18	0.44
3:G:379:MET:SD	3:G:519:MET:HG3	2.57	0.44
3:G:505:GLN:C	3:G:506:LEU:HD23	2.38	0.44
3:G:524:ASP:OD1	3:G:525:LEU:HD23	2.18	0.44
3:G:612:ALA:HB1	3:G:617:THR:CB	2.43	0.44
3:G:544:MET:CE	3:G:647:LEU:HD13	2.46	0.44
3:G:682:ARG:HD3	3:G:683:ASN:N	2.33	0.44
4:H:161:TYR:O	4:H:164:ARG:HB3	2.18	0.44
4:H:360:LEU:HD11	4:H:409:ILE:CG1	2.46	0.44
4:H:459:PRO:HB2	4:H:471:LEU:O	2.17	0.44
1:A:298:LEU:C	1:A:300:TYR:H	2.21	0.44
2:B:215:VAL:HG12	2:B:216:ALA:N	2.33	0.44
2:B:370:ILE:HG23	2:B:383:GLY:HA2	1.99	0.44
2:B:29:TYR:OH	2:B:99:ASP:OD2	2.13	0.44
3:C:1198:LEU:HG	3:C:1199:GLN:N	2.33	0.44
3:C:1430:TYR:C	3:C:1432:LYS:N	2.71	0.44
3:C:564:VAL:O	3:C:579:PHE:HB2	2.17	0.44
3:C:605:LYS:O	3:C:607:VAL:HG13	2.18	0.44
3:C:753:LEU:O	3:C:756:MET:HB3	2.17	0.44
3:C:806:LYS:HE2	3:C:807:GLN:N	2.33	0.44
3:C:910:ILE:N	3:C:910:ILE:CD1	2.80	0.44
3:C:982:GLU:C	3:C:984:LEU:N	2.71	0.44
4:D:217:ARG:O	4:D:218:GLU:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:255:GLY:HA3	4:D:272:LEU:HD21	2.00	0.44
4:D:458:GLU:CD	4:D:473:SER:H	2.21	0.44
1:E:120:ARG:CB	1:E:120:ARG:HH11	2.31	0.44
1:E:82:ALA:HB2	1:E:104:LYS:HB2	1.99	0.44
2:F:140:ILE:O	2:F:144:LEU:HG	2.18	0.44
2:F:85:TYR:HB3	2:F:86:ARG:H	1.30	0.44
2:F:93:TYR:HB3	2:F:96:ARG:CB	2.48	0.44
3:G:1023:ASN:CA	3:G:1026:LYS:HB3	2.43	0.44
3:G:1244:THR:HG22	3:G:1247:ARG:HH12	1.83	0.44
3:G:1332:MET:CE	3:G:1335:ARG:HD2	2.48	0.44
3:G:341:PHE:CE2	3:G:365:VAL:CG1	2.99	0.44
3:G:528:VAL:HG12	3:G:529:ILE:N	2.31	0.44
3:G:539:VAL:HG12	3:G:540:MET:N	2.33	0.44
3:G:742:LEU:O	3:G:743:GLU:C	2.56	0.44
3:G:900:GLU:O	3:G:901:LEU:C	2.56	0.44
4:H:256:GLN:HG3	4:H:257:ILE:O	2.16	0.44
4:H:294:TYR:CE1	4:H:487:SER:N	2.86	0.44
4:H:514:PRO:O	4:H:515:GLN:C	2.54	0.44
4:H:435:TYR:CB	4:H:518:MET:HE1	2.47	0.44
1:A:181:VAL:HA	2:B:192:LEU:HD22	2.00	0.44
3:C:1182:ASP:HA	3:C:1204:LEU:HD22	1.99	0.44
3:C:1241:LEU:HG	3:C:1241:LEU:O	2.18	0.44
3:C:1316:LYS:N	3:C:1316:LYS:CD	2.80	0.44
3:C:522:LYS:O	3:C:525:LEU:CG	2.61	0.44
4:D:218:GLU:O	4:D:222:CYS:SG	2.64	0.44
4:D:294:TYR:HA	4:D:319:LEU:HD22	2.00	0.44
4:D:396:SER:HA	4:D:397:PRO:HD3	1.83	0.44
1:E:87:ARG:HB3	1:E:89:ASN:ND2	2.23	0.44
2:F:137:LYS:NZ	2:F:181:GLU:CG	2.81	0.44
2:F:247:GLN:N	2:F:248:PRO:CD	2.81	0.44
2:F:295:LEU:HD11	2:F:330:GLU:HG3	2.00	0.44
2:F:329:GLN:HE21	2:F:329:GLN:HB3	1.57	0.44
2:F:355:LYS:HB3	2:F:356:GLU:H	1.55	0.44
3:G:1018:VAL:O	3:G:1022:GLY:N	2.41	0.44
3:G:507:LEU:HD22	3:G:510:PRO:HA	2.00	0.44
3:G:437:LYS:HZ2	3:G:800:ASN:HD22	1.65	0.44
3:G:878:THR:HB	3:G:902:PRO:HG3	2.00	0.44
4:H:196:LEU:HG	4:H:197:GLY:H	1.83	0.44
4:H:257:ILE:HG12	4:H:300:GLN:HB3	2.00	0.44
1:A:206:GLU:OE1	1:A:289:GLY:O	2.36	0.43
1:A:87:ARG:HB3	1:A:89:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:240:VAL:C	2:B:242:SER:H	2.21	0.43
2:B:37:ILE:HG22	2:B:41:GLU:HB3	2.00	0.43
3:C:1351:PRO:HA	3:C:1354:ARG:HD3	1.99	0.43
3:C:346:LEU:CD1	3:C:632:ASP:OD2	2.66	0.43
3:C:648:LEU:O	3:C:651:ILE:HG22	2.18	0.43
3:C:700:LEU:HD21	3:C:764:LEU:CD1	2.48	0.43
1:E:120:ARG:NH1	1:E:120:ARG:CB	2.80	0.43
1:E:169:VAL:HG12	1:E:174:VAL:HG21	1.99	0.43
1:E:251:ILE:CG2	1:E:251:ILE:O	2.66	0.43
3:G:1283:CYS:O	3:G:1285:THR:N	2.51	0.43
3:G:1339:LYS:O	3:G:1342:TYR:N	2.50	0.43
3:G:631:PRO:HG2	3:G:688:ARG:NH1	2.33	0.43
3:G:982:GLU:C	3:G:984:LEU:H	2.21	0.43
4:H:356:THR:HG1	4:H:358:ASP:CG	2.21	0.43
4:H:480:LEU:HA	4:H:511:LEU:HD22	1.99	0.43
4:H:484:GLU:OE2	4:H:497:ARG:NH1	2.51	0.43
1:A:136:THR:O	1:A:139:ILE:HB	2.18	0.43
1:A:192:VAL:HG22	1:A:302:PHE:CD1	2.51	0.43
1:A:382:ASP:OD2	1:A:385:LYS:HD2	2.18	0.43
2:B:33:PRO:HD2	2:B:104:PHE:HD2	1.82	0.43
2:B:444:PRO:HG3	6:B:601:SF4:S3	2.58	0.43
3:C:1135:ILE:HB	3:C:1177:TYR:CE1	2.53	0.43
3:C:589:PRO:HD3	3:C:732:TYR:CE1	2.53	0.43
3:C:543:SER:HB2	3:C:749:ALA:CA	2.48	0.43
3:C:766:LEU:HA	3:C:766:LEU:HD12	1.73	0.43
3:C:975:LEU:HD12	3:C:975:LEU:O	2.18	0.43
4:D:196:LEU:CG	4:D:197:GLY:N	2.81	0.43
4:D:237:ILE:HG22	4:D:238:GLU:N	2.31	0.43
4:D:349:TYR:HE1	4:D:381:PHE:CE1	2.37	0.43
4:D:563:THR:HG22	4:D:564:LYS:N	2.33	0.43
1:E:208:ILE:HG23	1:E:212:ILE:CG2	2.48	0.43
1:E:207:LYS:CE	2:F:172:SER:HA	2.49	0.43
2:F:358:LYS:HZ3	3:G:1274:ARG:NH2	2.16	0.43
2:F:412:LEU:O	2:F:416:LYS:HG3	2.18	0.43
2:F:434:VAL:HG23	2:F:436:ASP:N	2.33	0.43
3:G:1160:TRP:CE3	3:G:1161:ILE:N	2.86	0.43
3:G:1220:VAL:O	3:G:1223:ILE:HB	2.18	0.43
3:G:523:PRO:C	3:G:525:LEU:H	2.21	0.43
3:G:786:GLU:O	3:G:787:ARG:C	2.57	0.43
4:H:219:VAL:O	4:H:222:CYS:N	2.51	0.43
4:H:464:ILE:HD12	4:H:469:PHE:CD1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:350:ILE:HA	1:A:353:ILE:HD11	2.00	0.43
1:A:74:ASN:N	1:A:75:PRO:HD3	2.33	0.43
2:B:180:PHE:N	2:B:180:PHE:CD1	2.86	0.43
3:C:1409:THR:CG2	3:C:1410:THR:H	2.14	0.43
3:C:358:VAL:HA	3:C:380:VAL:O	2.17	0.43
3:C:362:PHE:CD2	3:C:687:GLY:CA	2.99	0.43
3:C:582:HIS:O	3:C:583:PHE:HB3	2.18	0.43
3:C:657:PRO:O	3:C:658:HIS:HB2	2.18	0.43
3:C:794:HIS:O	3:C:797:TYR:HB2	2.18	0.43
3:C:944:ILE:O	3:C:945:ARG:C	2.56	0.43
4:D:256:GLN:HE21	4:D:256:GLN:HB2	1.62	0.43
4:D:319:LEU:O	4:D:320:TYR:C	2.56	0.43
1:E:130:LYS:O	1:E:226:TYR:CE1	2.69	0.43
1:E:209:HIS:CG	1:E:210:PRO:CD	3.01	0.43
1:E:210:PRO:O	1:E:211:PHE:C	2.55	0.43
1:E:214:LYS:O	1:E:218:ILE:HG13	2.17	0.43
1:E:269:TRP:O	1:E:273:LYS:HG3	2.17	0.43
1:E:5:ASP:HA	1:E:6:PRO:HD2	1.85	0.43
2:F:124:GLU:HG3	2:F:124:GLU:O	2.19	0.43
2:F:37:ILE:HD11	3:G:1451:LEU:HD11	1.99	0.43
2:F:93:TYR:O	2:F:94:GLU:C	2.57	0.43
3:G:1196:GLU:HG3	3:G:1197:GLN:N	2.28	0.43
3:G:1328:ASN:CG	4:H:398:PHE:CE2	2.92	0.43
3:G:1401:ALA:HB2	3:G:1430:TYR:HD1	1.83	0.43
3:G:365:VAL:CG1	3:G:376:CYS:SG	3.07	0.43
3:G:635:VAL:CG2	3:G:752:ILE:CG2	2.92	0.43
3:G:665:LEU:HA	3:G:665:LEU:HD23	1.83	0.43
3:G:801:TYR:CE1	3:G:910:ILE:HD11	2.53	0.43
4:H:166:ASN:ND2	4:H:166:ASN:H	2.14	0.43
4:H:423:VAL:HA	4:H:424:PRO:HD2	1.80	0.43
4:H:435:TYR:C	4:H:435:TYR:HD1	2.21	0.43
4:H:538:LEU:CD1	4:H:540:ILE:HD11	2.48	0.43
1:A:113:THR:HG21	1:A:163:ARG:NH1	2.33	0.43
1:A:407:LYS:HG2	1:A:408:GLY:N	2.33	0.43
1:A:27:TYR:HB3	1:A:63:GLN:OE1	2.18	0.43
2:B:281:THR:O	2:B:431:ILE:HD11	2.19	0.43
2:B:295:LEU:CD1	2:B:330:GLU:HG3	2.47	0.43
2:B:341:PHE:HD2	2:B:342:ASP:OD2	2.01	0.43
3:C:1116:LEU:CD1	3:C:1116:LEU:H	2.32	0.43
3:C:1360:LEU:O	3:C:1360:LEU:HG	2.12	0.43
3:C:665:LEU:O	3:C:667:ARG:HG2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:777:SER:O	3:C:780:LEU:N	2.41	0.43
4:D:171:VAL:HB	4:D:546:TYR:HE2	1.79	0.43
4:D:356:THR:OG1	4:D:358:ASP:CG	2.56	0.43
4:D:476:LEU:HD13	4:D:480:LEU:HD23	1.99	0.43
4:D:493:ASP:OD1	4:D:493:ASP:C	2.57	0.43
2:F:287:CYS:HB2	2:F:288:MET:CE	2.49	0.43
2:F:417:GLY:O	2:F:418:THR:CB	2.67	0.43
2:F:441:LEU:HD21	2:F:447:PHE:HB2	2.00	0.43
3:G:1364:PHE:CE1	3:G:1369:PRO:HA	2.54	0.43
3:G:731:MET:HG2	3:G:737:GLN:OE1	2.18	0.43
4:H:563:THR:HG22	4:H:564:LYS:N	2.34	0.43
1:A:196:GLN:O	1:A:196:GLN:HG2	2.18	0.43
1:A:68:LYS:O	1:A:72:LYS:HB2	2.19	0.43
2:B:139:LYS:CA	2:B:142:ASP:OD1	2.65	0.43
2:B:288:MET:HG3	2:B:312:PHE:CZ	2.54	0.43
2:B:336:MET:CE	2:B:345:TYR:HE2	2.30	0.43
3:C:851:PHE:CD2	3:C:1105:ARG:HG3	2.53	0.43
2:B:356:GLU:HB2	3:C:1247:ARG:HD3	2.01	0.43
3:C:349:TYR:OH	3:C:667:ARG:NH2	2.51	0.43
3:C:661:LYS:O	3:C:663:GLY:N	2.51	0.43
3:C:795:ALA:O	3:C:796:PHE:C	2.57	0.43
1:E:162:ARG:NH2	1:E:326:LYS:CD	2.82	0.43
1:E:237:LYS:HZ2	1:E:256:GLN:HE22	1.66	0.43
2:F:107:ARG:O	2:F:111:CYS:HB3	2.19	0.43
2:F:421:GLN:O	2:F:424:CYS:N	2.52	0.43
3:G:1135:ILE:CG2	3:G:1136:ASN:N	2.79	0.43
3:G:391:PRO:HA	3:G:472:THR:O	2.19	0.43
3:G:389:PHE:CE2	3:G:476:VAL:HG21	2.53	0.43
3:G:551:LYS:HB3	3:G:552:ASN:H	1.65	0.43
3:G:631:PRO:CD	3:G:688:ARG:HH12	2.32	0.43
4:H:198:CYS:CB	4:H:199:PRO:CD	2.96	0.43
4:H:399:GLU:HA	4:H:399:GLU:OE2	2.18	0.43
4:H:380:PRO:HB3	4:H:427:ARG:HB2	2.01	0.43
1:A:172:GLU:HA	1:A:175:ARG:NH2	2.33	0.43
1:A:48:THR:HB	1:A:77:LYS:CB	2.44	0.43
2:B:49:ARG:CB	2:B:102:SER:HB2	2.35	0.43
2:B:211:LEU:O	2:B:212:LYS:C	2.56	0.43
2:B:253:LEU:HD23	2:B:253:LEU:HA	1.70	0.43
3:C:1251:TYR:HE1	3:C:1253:LYS:HD3	1.83	0.43
3:C:549:ASN:HD21	3:C:552:ASN:C	2.21	0.43
3:C:659:TRP:CD2	3:C:660:SER:N	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:378:PHE:HE2	4:D:472:THR:O	2.02	0.43
4:D:522:TYR:H	4:D:522:TYR:HD2	1.65	0.43
2:F:265:GLN:CB	2:F:362:TYR:CZ	3.01	0.43
2:F:285:PRO:HB2	2:F:286:PRO:CD	2.48	0.43
2:F:285:PRO:HB2	2:F:286:PRO:HD2	1.99	0.43
3:G:1186:LEU:HD22	3:G:1187:THR:H	1.81	0.43
3:G:1193:TYR:CE2	3:G:1204:LEU:HD13	2.54	0.43
3:G:395:LYS:N	3:G:408:ILE:HD11	2.33	0.43
3:G:486:LEU:CD2	3:G:490:ASN:HD21	2.31	0.43
3:G:507:LEU:HD21	3:G:517:GLU:CB	2.48	0.43
3:G:562:ALA:HB3	3:G:583:PHE:CE1	2.53	0.43
3:G:790:PHE:HA	3:G:793:LEU:HB2	2.01	0.43
4:H:255:GLY:CA	4:H:272:LEU:HD11	2.47	0.43
4:H:484:GLU:HG2	4:H:485:ILE:N	2.33	0.43
1:A:237:LYS:HG3	1:A:240:TRP:NE1	2.34	0.43
1:A:360:ILE:HD11	1:A:385:LYS:HB3	2.01	0.43
2:B:139:LYS:O	2:B:142:ASP:OD2	2.37	0.43
2:B:185:LYS:CG	2:B:185:LYS:O	2.65	0.43
2:B:262:TYR:CD1	2:B:262:TYR:C	2.92	0.43
3:C:1048:LEU:HD23	3:C:1050:LEU:CD2	2.32	0.43
3:C:1098:GLN:O	3:C:1108:ILE:HG23	2.19	0.43
3:C:1230:ILE:HD12	3:C:1238:TRP:CZ3	2.54	0.43
3:C:1340:LYS:O	3:C:1342:TYR:N	2.51	0.43
3:C:1421:PHE:O	3:C:1426:VAL:HG21	2.18	0.43
3:C:343:PHE:HB2	3:C:365:VAL:HG13	2.01	0.43
3:C:392:ARG:O	3:C:408:ILE:HB	2.19	0.43
3:C:585:VAL:HG22	3:C:618:LEU:CG	2.49	0.43
3:C:659:TRP:CE2	3:C:660:SER:HB2	2.53	0.43
3:C:664:ARG:HD2	3:C:688:ARG:HG3	1.99	0.43
3:C:682:ARG:HD3	3:C:683:ASN:N	2.34	0.43
3:C:740:TYR:HD1	3:C:740:TYR:C	2.21	0.43
4:D:458:GLU:OE1	4:D:473:SER:N	2.49	0.43
1:E:120:ARG:HB3	1:E:120:ARG:CZ	2.49	0.43
1:E:349:THR:CG2	1:E:351:SER:H	2.19	0.43
2:F:277:ASP:O	2:F:280:SER:OG	2.37	0.43
3:G:1085:CYS:SG	3:G:1086:ASP:N	2.92	0.43
3:G:1207:ASP:O	3:G:1208:THR:C	2.56	0.43
3:G:1242:ASP:N	3:G:1243:PRO:CD	2.81	0.43
3:G:548:GLN:HA	3:G:554:GLN:O	2.19	0.43
3:G:558:ILE:O	3:G:558:ILE:CD1	2.65	0.43
3:G:944:ILE:HG22	3:G:945:ARG:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:337:PHE:CB	4:H:465:ASN:ND2	2.76	0.43
2:B:365:PHE:O	2:B:443:HIS:CD2	2.72	0.43
2:B:374:ASN:O	2:B:375:PRO:O	2.37	0.43
2:B:422:VAL:HA	2:B:425:GLN:CG	2.45	0.43
2:B:429:GLU:HG3	2:B:429:GLU:H	1.47	0.43
3:C:857:LEU:HD12	3:C:1018:VAL:CG1	2.48	0.43
3:C:1035:LEU:HD23	3:C:1035:LEU:N	2.34	0.43
3:C:1104:SER:O	3:C:1105:ARG:C	2.57	0.43
3:C:1414:LYS:HD3	3:C:1415:ASP:OD1	2.18	0.43
3:C:344:TYR:HB2	3:C:498:TRP:CE3	2.54	0.43
3:C:609:VAL:HG13	3:C:609:VAL:O	2.19	0.43
3:C:900:GLU:O	3:C:901:LEU:C	2.57	0.43
4:D:254:LEU:HD12	4:D:255:GLY:H	1.78	0.43
4:D:308:ASN:CG	4:D:311:GLY:HA2	2.36	0.43
2:F:149:LEU:H	2:F:151:PHE:HE1	1.66	0.43
2:F:240:VAL:C	2:F:242:SER:H	2.21	0.43
2:F:337:ASP:HB3	2:F:340:LYS:CB	2.49	0.43
2:F:342:ASP:O	2:F:346:SER:HB3	2.19	0.43
3:G:1021:LEU:O	3:G:1022:GLY:C	2.55	0.43
3:G:1193:TYR:N	3:G:1193:TYR:HD1	2.16	0.43
3:G:387:LEU:HD23	3:G:478:GLY:C	2.39	0.43
3:G:522:LYS:HG3	3:G:525:LEU:CG	2.49	0.43
3:G:607:VAL:C	3:G:609:VAL:H	2.20	0.43
3:G:362:PHE:CE2	3:G:687:GLY:HA3	2.53	0.43
3:G:730:ASN:ND2	3:G:730:ASN:N	2.65	0.43
3:G:770:ASN:HA	3:G:770:ASN:HD22	1.51	0.43
3:G:774:ASN:C	3:G:775:ILE:HG13	2.39	0.43
1:E:95:LYS:HZ3	3:G:881:ARG:H	1.63	0.43
1:A:111:ASP:CG	1:A:112:MET:N	2.72	0.43
1:A:335:ASP:CG	1:A:338:LYS:HG2	2.38	0.43
2:B:279:LEU:C	2:B:284:PHE:CE1	2.92	0.43
3:C:1237:THR:OG1	3:C:1238:TRP:N	2.51	0.43
3:C:792:LEU:HD21	3:C:956:MET:HE1	2.01	0.43
3:C:976:VAL:HG12	3:C:977:THR:N	2.34	0.43
4:D:543:GLU:O	4:D:543:GLU:HG3	2.19	0.43
1:E:107:VAL:HG11	1:E:168:TRP:CE3	2.54	0.43
1:E:237:LYS:CD	1:E:256:GLN:OE1	2.67	0.43
2:F:414:LEU:O	2:F:415:VAL:C	2.55	0.43
2:F:452:GLN:O	2:F:455:LEU:HG	2.19	0.43
3:G:861:PHE:CE1	3:G:1036:LEU:HD11	2.53	0.43
3:G:1104:SER:O	3:G:1108:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1181:GLN:HE21	3:G:1181:GLN:HA	1.83	0.43
3:G:1301:THR:HG22	3:G:1302:ASP:N	2.34	0.43
3:G:1366:ARG:NH1	3:G:1366:ARG:HG3	2.33	0.43
3:G:853:ASP:HB3	3:G:854:LYS:NZ	2.34	0.43
3:G:943:ASP:O	3:G:946:GLN:NE2	2.45	0.43
4:H:208:SER:HB2	4:H:209:MET:H	1.58	0.43
1:A:356:GLU:OE1	1:A:386:THR:HG23	2.19	0.43
1:A:55:ILE:CG1	1:A:58:GLN:HE22	2.10	0.43
2:B:291:LEU:HD11	2:B:308:GLN:HE21	1.83	0.43
2:B:314:LYS:O	2:B:317:GLY:N	2.49	0.43
2:B:314:LYS:HG3	2:B:353:PHE:CE2	2.54	0.43
2:B:358:LYS:O	2:B:359:ARG:HG2	2.19	0.43
2:B:398:LEU:O	2:B:403:ILE:HG12	2.19	0.43
2:B:428:PHE:CE2	2:B:437:CYS:HB2	2.54	0.43
3:C:563:LEU:HD22	3:C:563:LEU:HA	1.75	0.43
3:C:577:PRO:HB2	3:C:578:PRO:CD	2.49	0.43
3:C:665:LEU:O	3:C:667:ARG:CG	2.66	0.43
3:C:753:LEU:HD12	3:C:756:MET:HE1	2.00	0.43
3:C:760:ASN:N	3:C:760:ASN:ND2	2.66	0.43
3:C:864:LEU:CD1	3:C:868:ILE:HD11	2.49	0.43
1:A:95:LYS:NZ	3:C:881:ARG:O	2.52	0.43
4:D:310:THR:HB	4:D:312:ARG:HG2	2.00	0.43
4:D:495:PHE:C	4:D:497:ARG:N	2.73	0.43
1:E:111:ASP:OD1	1:E:112:MET:N	2.51	0.43
1:E:348:PRO:HB2	1:E:353:ILE:CG2	2.49	0.43
1:E:38:ASN:ND2	1:E:38:ASN:N	2.64	0.43
2:F:22:TYR:N	2:F:25:CYS:CB	2.82	0.43
2:F:34:SER:O	2:F:35:GLU:O	2.37	0.43
2:F:62:SER:O	2:F:63:TYR:HD2	2.02	0.43
3:G:1225:GLU:N	3:G:1226:PRO:CD	2.82	0.43
3:G:659:TRP:CZ2	3:G:667:ARG:O	2.72	0.43
3:G:694:GLU:OE2	3:G:706:TYR:O	2.37	0.43
3:G:715:ILE:HD12	3:G:755:ILE:HD11	2.01	0.43
3:G:732:TYR:CD2	3:G:738:LEU:HD11	2.53	0.43
4:H:161:TYR:CE2	4:H:359:PRO:HG3	2.54	0.43
4:H:269:SER:O	4:H:271:ILE:HG22	2.19	0.43
4:H:354:SER:O	4:H:386:HIS:CE1	2.70	0.43
4:H:460:CYS:O	4:H:471:LEU:N	2.51	0.43
1:A:112:MET:HG3	1:A:119:ARG:CZ	2.49	0.42
1:A:244:LEU:HD11	1:A:256:GLN:NE2	2.33	0.42
2:B:26:LEU:O	2:B:143:PHE:CZ	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:341:PHE:CD1	2:B:345:TYR:HB2	2.54	0.42
2:B:390:ASP:OD1	2:B:390:ASP:C	2.57	0.42
2:B:418:THR:OG1	2:B:420:TYR:HE2	2.01	0.42
2:B:441:LEU:HD12	2:B:446:GLN:CG	2.48	0.42
3:C:1063:THR:OG1	3:C:1064:SER:N	2.52	0.42
3:C:1077:LEU:N	3:C:1077:LEU:HD23	2.34	0.42
3:C:1335:ARG:NH2	4:D:433:PRO:CD	2.79	0.42
3:C:1414:LYS:HG2	3:C:1415:ASP:N	2.34	0.42
3:C:439:TYR:O	3:C:448:GLU:HA	2.18	0.42
3:C:340:VAL:CG2	3:C:500:GLU:HG3	2.49	0.42
3:C:910:ILE:H	3:C:910:ILE:CD1	2.31	0.42
3:C:918:LEU:HD22	3:C:918:LEU:HA	1.90	0.42
4:D:292:LYS:H	4:D:292:LYS:CE	2.32	0.42
4:D:306:GLY:HA3	4:D:315:VAL:O	2.19	0.42
4:D:398:PHE:O	4:D:399:GLU:C	2.57	0.42
4:D:534:THR:HA	4:D:535:PRO:HD2	1.76	0.42
4:D:542:SER:OG	4:D:544:LEU:N	2.41	0.42
1:E:132:TRP:CE3	1:E:135:MET:HG3	2.53	0.42
1:E:143:ASP:OD1	1:E:155:ARG:NE	2.43	0.42
2:F:119:TRP:CE3	2:F:119:TRP:C	2.92	0.42
2:F:170:SER:CB	2:F:171:PRO:CD	2.95	0.42
2:F:279:LEU:HD23	2:F:279:LEU:H	1.84	0.42
2:F:33:PRO:HG2	2:F:33:PRO:O	2.20	0.42
3:G:861:PHE:CG	3:G:1036:LEU:HD11	2.54	0.42
3:G:1081:ARG:CZ	3:G:1083:ASP:OD2	2.67	0.42
3:G:864:LEU:C	3:G:866:PRO:CD	2.88	0.42
4:H:325:LEU:HD22	4:H:326:PRO:HD2	2.01	0.42
1:A:153:LYS:CB	1:A:154:HIS:CD2	3.03	0.42
1:A:236:ASN:N	1:A:236:ASN:HD22	2.10	0.42
1:A:156:LEU:HD11	1:A:333:PRO:HB3	2.01	0.42
1:A:59:SER:HB2	1:A:88:PRO:HB2	2.01	0.42
2:B:74:LEU:CD2	2:B:130:PHE:CG	3.02	0.42
2:B:53:LEU:HD11	2:B:124:GLU:CD	2.39	0.42
2:B:77:GLU:O	2:B:79:ARG:N	2.52	0.42
3:C:1149:LYS:HG2	3:C:1150:LYS:H	1.70	0.42
3:C:571:ASP:N	3:C:571:ASP:OD2	2.50	0.42
3:C:621:PHE:O	3:C:625:LYS:HG2	2.19	0.42
3:C:647:LEU:O	3:C:649:GLN:N	2.52	0.42
3:C:946:GLN:HE21	3:C:946:GLN:HB3	1.68	0.42
4:D:212:LYS:C	4:D:214:PRO:CD	2.86	0.42
4:D:304:MET:HE1	4:D:316:ALA:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:431:HIS:O	4:D:433:PRO:HD3	2.19	0.42
4:D:564:LYS:O	4:D:565:GLY:C	2.55	0.42
4:D:344:VAL:HG23	4:D:572:ALA:O	2.18	0.42
1:E:151:GLY:HA2	2:F:204:ASP:OD2	2.19	0.42
1:E:21:PHE:HA	1:E:22:PRO:HD3	1.67	0.42
1:E:56:ARG:O	1:E:58:GLN:N	2.51	0.42
2:F:211:LEU:O	2:F:212:LYS:C	2.56	0.42
2:F:22:TYR:O	2:F:135:LEU:HD21	2.18	0.42
2:F:324:LEU:HD23	2:F:349:ILE:CG2	2.50	0.42
2:F:434:VAL:HG23	2:F:435:ASP:N	2.34	0.42
3:G:1036:LEU:CD1	3:G:1037:GLU:N	2.70	0.42
3:G:1055:TYR:O	3:G:1055:TYR:CD1	2.73	0.42
3:G:1227:ILE:HG21	3:G:1230:ILE:HG12	2.01	0.42
3:G:1439:GLN:O	3:G:1442:SER:CB	2.67	0.42
3:G:382:ASN:HB2	3:G:521:LEU:O	2.19	0.42
3:G:563:LEU:HD13	3:G:579:PHE:CE2	2.53	0.42
3:G:932:GLN:NE2	3:G:933:ASP:N	2.57	0.42
3:G:991:VAL:HA	3:G:994:MET:HE2	2.00	0.42
4:H:343:LEU:CD1	4:H:344:VAL:N	2.78	0.42
4:H:403:LYS:H	4:H:403:LYS:HG2	1.66	0.42
4:H:434:VAL:O	4:H:436:PRO:O	2.37	0.42
4:H:535:PRO:HG3	4:H:538:LEU:CD2	2.49	0.42
1:A:40:PHE:HB3	1:A:41:GLN:NE2	2.34	0.42
2:B:421:GLN:O	2:B:424:CYS:HB3	2.18	0.42
3:C:1081:ARG:NE	3:C:1083:ASP:OD2	2.52	0.42
3:C:1098:GLN:HE21	3:C:1111:ASN:CB	2.32	0.42
3:C:1243:PRO:O	3:C:1244:THR:C	2.58	0.42
3:C:437:LYS:HD3	3:C:800:ASN:O	2.19	0.42
3:C:541:ALA:HA	3:C:635:VAL:O	2.19	0.42
3:C:710:GLU:O	3:C:711:LEU:C	2.57	0.42
3:C:735:SER:O	3:C:736:SER:C	2.58	0.42
3:C:861:PHE:CD2	3:C:1038:ILE:HA	2.54	0.42
4:D:334:ASP:OD1	4:D:337:PHE:HE2	2.01	0.42
4:D:349:TYR:OH	4:D:377:LEU:HB3	2.19	0.42
1:E:223:PHE:HE2	1:E:269:TRP:CZ2	2.37	0.42
2:F:103:HIS:NE2	2:F:107:ARG:NH2	2.67	0.42
1:E:187:GLU:OE1	2:F:196:ARG:HG3	2.19	0.42
3:G:1446:TYR:HD2	3:G:1446:TYR:HA	1.68	0.42
3:G:846:ASP:HA	3:G:847:PRO:HD2	1.79	0.42
3:G:804:PRO:CG	3:G:967:PHE:CE2	3.00	0.42
3:G:977:THR:C	3:G:981:ARG:NH1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:212:LYS:C	4:H:214:PRO:CD	2.87	0.42
4:H:346:CYS:SG	4:H:378:PHE:CB	3.07	0.42
4:H:574:LEU:CG	4:H:593:VAL:HG22	2.48	0.42
2:B:300:HIS:HA	2:B:331:PHE:CE1	2.55	0.42
2:B:401:TYR:N	2:B:401:TYR:HD1	2.17	0.42
3:C:1093:ASN:O	3:C:1095:VAL:N	2.52	0.42
3:C:1316:LYS:N	3:C:1316:LYS:HD3	2.34	0.42
3:C:1345:TRP:HD1	3:C:1382:GLU:OE1	2.02	0.42
3:C:348:ALA:O	3:C:349:TYR:HB2	2.19	0.42
3:C:773:GLY:O	3:C:794:HIS:NE2	2.48	0.42
4:D:310:THR:HG22	4:D:312:ARG:HG2	2.01	0.42
2:F:246:LEU:N	2:F:246:LEU:HD23	2.35	0.42
2:F:367:CYS:O	2:F:368:LEU:C	2.54	0.42
3:G:440:ALA:CB	3:G:877:THR:HG22	2.50	0.42
3:G:458:SER:OG	3:G:461:MET:HG3	2.19	0.42
3:G:489:MET:O	3:G:490:ASN:C	2.58	0.42
3:G:541:ALA:HA	3:G:635:VAL:O	2.19	0.42
3:G:552:ASN:ND2	3:G:553:HIS:ND1	2.68	0.42
3:G:591:ASP:OD1	3:G:591:ASP:C	2.57	0.42
3:G:703:CYS:CA	3:G:704:LYS:HE2	2.47	0.42
4:H:237:ILE:HD11	4:H:320:TYR:CE1	2.54	0.42
4:H:270:VAL:HB	4:H:286:VAL:HG23	2.02	0.42
4:H:319:LEU:O	4:H:319:LEU:CG	2.67	0.42
4:H:357:TYR:HD1	4:H:357:TYR:N	2.15	0.42
2:B:279:LEU:O	2:B:283:SER:N	2.47	0.42
2:B:366:SER:O	2:B:369:LYS:HB3	2.18	0.42
2:B:283:SER:HA	2:B:451:SER:OG	2.19	0.42
2:B:95:PRO:O	2:B:96:ARG:C	2.58	0.42
3:C:1222:ARG:HG2	3:C:1223:ILE:N	2.35	0.42
3:C:403:GLU:HG3	3:C:403:GLU:H	1.59	0.42
3:C:542:PHE:C	3:C:542:PHE:CD2	2.93	0.42
3:C:630:ASP:OD1	3:C:688:ARG:NH2	2.53	0.42
3:C:633:ILE:HG12	3:C:689:MET:HB2	2.00	0.42
3:C:711:LEU:O	3:C:755:ILE:HD11	2.19	0.42
4:D:228:GLY:O	4:D:229:SER:C	2.58	0.42
4:D:355:ILE:CD1	4:D:388:GLN:HE22	2.20	0.42
4:D:376:ILE:HA	4:D:421:VAL:HG12	2.00	0.42
4:D:363:LEU:HD22	4:D:562:LEU:HD22	2.01	0.42
4:D:592:ALA:O	4:D:593:VAL:CG2	2.68	0.42
1:E:246:LEU:HD12	1:E:296:ILE:HG12	2.01	0.42
1:E:95:LYS:HA	3:G:448:GLU:CD	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:292:HIS:O	2:F:293:LYS:C	2.56	0.42
2:F:49:ARG:HG3	2:F:106:LEU:CD1	2.46	0.42
3:G:1329:LYS:HE3	3:G:1333:ASP:CG	2.40	0.42
3:G:1395:TYR:O	3:G:1398:ILE:HG12	2.18	0.42
3:G:1423:THR:O	3:G:1424:PRO:C	2.56	0.42
3:G:340:VAL:CG2	3:G:341:PHE:N	2.82	0.42
3:G:344:TYR:HB2	3:G:498:TRP:CD2	2.53	0.42
3:G:548:GLN:HB2	3:G:548:GLN:HE21	1.63	0.42
4:H:296:LEU:HD23	4:H:300:GLN:CD	2.39	0.42
4:H:421:VAL:HG12	4:H:421:VAL:O	2.20	0.42
4:H:459:PRO:CB	4:H:471:LEU:O	2.67	0.42
4:H:494:ARG:CG	4:H:494:ARG:HH11	2.24	0.42
1:A:141:ILE:CD1	1:A:303:PRO:CD	2.98	0.42
1:A:78:ILE:HG22	1:A:319:SER:OG	2.18	0.42
1:A:132:TRP:CD2	1:A:344:PRO:HG2	2.54	0.42
2:B:75:GLU:HA	2:B:78:LEU:HB2	2.00	0.42
3:C:1050:LEU:N	3:C:1050:LEU:HD23	2.34	0.42
3:C:1193:TYR:N	3:C:1193:TYR:CD1	2.88	0.42
3:C:1294:ASN:CG	3:C:1295:VAL:N	2.72	0.42
3:C:345:TRP:HZ2	3:C:495:GLY:HA2	1.84	0.42
3:C:450:SER:O	3:C:452:TYR:HD1	2.03	0.42
3:C:519:MET:SD	3:C:520:ALA:C	2.98	0.42
3:C:531:ASP:O	3:C:532:VAL:CG2	2.66	0.42
3:C:663:GLY:O	3:C:688:ARG:NE	2.52	0.42
3:C:693:VAL:O	3:C:694:GLU:C	2.56	0.42
3:C:977:THR:C	3:C:981:ARG:HH12	2.23	0.42
4:D:349:TYR:HE1	4:D:381:PHE:CD1	2.37	0.42
4:D:512:TYR:HA	4:D:514:PRO:CD	2.50	0.42
1:E:125:ALA:O	1:E:163:ARG:HD3	2.20	0.42
1:E:178:SER:O	1:E:182:ARG:HG3	2.20	0.42
1:E:55:ILE:HD12	1:E:56:ARG:N	2.28	0.42
2:F:303:HIS:O	2:F:304:GLY:C	2.58	0.42
2:F:320:LEU:CA	2:F:353:PHE:CE1	2.96	0.42
3:G:1002:ASP:C	3:G:1002:ASP:OD1	2.55	0.42
3:G:1105:ARG:HH11	3:G:1105:ARG:CB	2.32	0.42
3:G:1222:ARG:CG	3:G:1223:ILE:CD1	2.98	0.42
3:G:1235:ILE:H	3:G:1235:ILE:HG13	1.58	0.42
3:G:415:GLU:HB3	3:G:419:GLU:OE2	2.20	0.42
3:G:759:LEU:O	3:G:760:ASN:C	2.57	0.42
4:H:546:TYR:N	4:H:546:TYR:CD1	2.62	0.42
1:A:355:ARG:CB	1:A:355:ARG:NH1	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:56:ARG:O	1:A:58:GLN:N	2.51	0.42
1:A:89:ASN:HD22	1:A:90:GLN:N	2.18	0.42
2:B:284:PHE:HB3	2:B:288:MET:HB2	2.02	0.42
2:B:401:TYR:N	2:B:401:TYR:CD1	2.87	0.42
2:B:81:LEU:O	2:B:83:PHE:CD1	2.73	0.42
3:C:1122:ASN:HB3	3:C:1127:SER:HB3	2.01	0.42
3:C:1182:ASP:HA	3:C:1204:LEU:CD2	2.50	0.42
3:C:574:ALA:HA	3:C:575:PRO:HD3	1.77	0.42
3:C:610:GLU:OE1	3:C:610:GLU:C	2.57	0.42
3:C:755:ILE:O	3:C:759:LEU:HG	2.20	0.42
4:D:201:ALA:O	4:D:202:LEU:HB3	2.18	0.42
4:D:383:ASP:C	4:D:385:LYS:N	2.73	0.42
1:E:191:LEU:HD23	1:E:191:LEU:O	2.20	0.42
1:E:360:ILE:O	1:E:360:ILE:HG22	2.20	0.42
1:E:73:MET:O	1:E:74:ASN:C	2.56	0.42
2:F:54:LYS:O	2:F:58:ASN:ND2	2.53	0.42
3:G:1026:LYS:HG2	3:G:1027:SER:N	2.35	0.42
3:G:1085:CYS:SG	3:G:1087:LEU:N	2.93	0.42
3:G:1186:LEU:O	3:G:1191:ARG:HD3	2.20	0.42
3:G:1329:LYS:O	3:G:1330:LEU:C	2.58	0.42
3:G:1388:LEU:O	3:G:1390:THR:N	2.53	0.42
3:G:1408:LEU:HD13	3:G:1408:LEU:HA	1.78	0.42
3:G:512:SER:C	3:G:514:CYS:H	2.22	0.42
3:G:682:ARG:CD	3:G:682:ARG:C	2.85	0.42
3:G:764:LEU:CD1	3:G:768:ILE:HD11	2.50	0.42
3:G:874:ILE:HG23	3:G:879:VAL:HG21	2.01	0.42
4:H:292:LYS:NZ	4:H:317:THR:O	2.53	0.42
4:H:592:ALA:O	4:H:593:VAL:HG23	2.18	0.42
1:A:343:ASP:O	1:A:347:VAL:HG23	2.18	0.42
2:B:230:LEU:HD23	2:B:230:LEU:HA	1.66	0.42
3:C:1116:LEU:O	3:C:1117:ILE:C	2.58	0.42
3:C:1182:ASP:OD1	3:C:1193:TYR:OH	2.36	0.42
3:C:1236:ALA:HB1	3:C:1246:PHE:CE2	2.55	0.42
3:C:1245:GLN:HG3	3:C:1249:HIS:HE1	1.83	0.42
3:C:1349:GLU:OE2	3:C:1378:THR:N	2.48	0.42
3:C:441:PHE:HZ	3:C:796:PHE:CZ	2.38	0.42
3:C:555:ASN:O	3:C:650:ARG:HD3	2.19	0.42
3:C:571:ASP:HB2	3:C:941:GLN:NE2	2.35	0.42
3:C:756:MET:SD	3:C:762:LEU:HD21	2.60	0.42
3:C:774:ASN:C	3:C:775:ILE:HD12	2.39	0.42
3:C:951:LEU:O	3:C:952:THR:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:382:LEU:HD22	4:D:401:ILE:CG2	2.50	0.42
4:D:411:GLU:CG	4:D:414:ARG:NH1	2.80	0.42
4:D:592:ALA:C	4:D:593:VAL:HG23	2.40	0.42
1:E:171:ASP:O	1:E:174:VAL:HB	2.19	0.42
1:E:237:LYS:NZ	1:E:256:GLN:NE2	2.67	0.42
1:E:43:ARG:CZ	1:E:83:VAL:CG2	2.98	0.42
1:E:50:LYS:CD	1:E:50:LYS:N	2.67	0.42
2:F:177:LYS:HD3	2:F:177:LYS:HA	1.89	0.42
2:F:241:GLN:O	2:F:241:GLN:HG2	2.20	0.42
2:F:429:GLU:O	2:F:433:ASN:N	2.53	0.42
2:F:316:ILE:HG22	2:F:448:PHE:CD2	2.54	0.42
2:F:94:GLU:OE2	2:F:94:GLU:CA	2.68	0.42
3:G:1027:SER:O	3:G:1028:GLU:C	2.57	0.42
3:G:1160:TRP:CE3	3:G:1161:ILE:HA	2.55	0.42
3:G:1184:SER:C	3:G:1186:LEU:N	2.72	0.42
3:G:1195:PRO:HA	3:G:1198:LEU:HD23	2.01	0.42
3:G:359:VAL:HG12	3:G:360:PHE:N	2.35	0.42
3:G:589:PRO:HG2	3:G:590:LYS:N	2.34	0.42
3:G:865:TYR:N	3:G:866:PRO:HD3	2.35	0.42
3:G:898:ILE:O	3:G:899:PRO:O	2.37	0.42
3:G:946:GLN:NE2	3:G:947:LYS:N	2.67	0.42
3:G:789:GLU:CD	3:G:966:ARG:HD3	2.40	0.42
3:G:971:PRO:O	3:G:972:LEU:C	2.58	0.42
4:H:406:LEU:HD23	4:H:442:TYR:CD2	2.55	0.42
4:H:575:TYR:O	4:H:576:LEU:HD23	2.20	0.42
4:H:580:ALA:O	4:H:587:GLN:OE1	2.37	0.42
4:H:546:TYR:CB	4:H:595:VAL:HG11	2.50	0.42
1:A:237:LYS:HA	1:A:240:TRP:CG	2.54	0.42
1:A:255:LEU:HD23	1:A:275:VAL:HG21	2.02	0.42
1:A:323:VAL:HG11	1:A:350:ILE:HG21	2.02	0.42
1:A:88:PRO:C	1:A:90:GLN:H	2.23	0.42
2:B:139:LYS:O	2:B:142:ASP:CG	2.58	0.42
2:B:374:ASN:O	2:B:375:PRO:C	2.54	0.42
2:B:414:LEU:O	2:B:415:VAL:C	2.58	0.42
2:B:42:PHE:C	2:B:42:PHE:CD2	2.93	0.42
2:B:93:TYR:O	2:B:94:GLU:C	2.58	0.42
2:B:94:GLU:HA	2:B:94:GLU:OE2	2.20	0.42
3:C:864:LEU:CD2	3:C:1004:ASP:CB	2.92	0.42
3:C:1023:ASN:O	3:C:1024:LYS:C	2.59	0.42
3:C:1294:ASN:CG	3:C:1295:VAL:H	2.22	0.42
3:C:1411:ASP:O	3:C:1415:ASP:OD1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:485:GLU:OE1	3:C:966:ARG:NH1	2.49	0.42
3:C:568:PHE:CE1	3:C:575:PRO:HD2	2.54	0.42
3:C:698:LYS:HG2	3:C:706:TYR:CD1	2.55	0.42
3:C:851:PHE:CD1	3:C:1048:LEU:CD1	2.92	0.42
3:C:911:LEU:HB3	3:C:912:PRO:HD3	2.01	0.42
4:D:291:LEU:HD12	4:D:292:LYS:HZ1	1.85	0.42
4:D:403:LYS:H	4:D:403:LYS:HG2	1.62	0.42
4:D:435:TYR:HB3	4:D:518:MET:HE1	2.02	0.42
1:E:142:ILE:HD11	1:E:303:PRO:CG	2.50	0.42
1:E:232:ASP:O	1:E:234:LEU:N	2.52	0.42
1:E:28:ARG:HD3	1:E:399:LEU:HD13	2.01	0.42
1:E:56:ARG:HD3	1:E:57:TYR:CE2	2.54	0.42
2:F:358:LYS:HB3	2:F:358:LYS:HE2	1.78	0.42
2:F:49:ARG:NH1	2:F:124:GLU:CD	2.73	0.42
3:G:1095:VAL:O	3:G:1098:GLN:N	2.52	0.42
3:G:1221:ALA:O	3:G:1222:ARG:C	2.58	0.42
3:G:1295:VAL:HG21	3:G:1404:ALA:HB2	2.02	0.42
3:G:438:ASN:HA	3:G:448:GLU:O	2.20	0.42
3:G:523:PRO:C	3:G:525:LEU:N	2.73	0.42
3:G:849:VAL:HG13	3:G:1226:PRO:HB3	2.01	0.42
3:G:857:LEU:CD2	3:G:859:LEU:CG	2.97	0.42
3:G:860:ASP:C	3:G:1038:ILE:HD12	2.40	0.42
4:H:376:ILE:HG13	4:H:376:ILE:H	1.55	0.42
1:A:145:ALA:O	1:A:146:LEU:C	2.58	0.42
1:A:332:VAL:HA	1:A:333:PRO:HD3	1.97	0.42
2:B:253:LEU:O	2:B:254:SER:HB3	2.20	0.42
2:B:295:LEU:O	2:B:330:GLU:OE2	2.38	0.42
3:C:340:VAL:HG22	3:C:341:PHE:N	2.34	0.42
3:C:366:TRP:HB2	3:C:373:HIS:CD2	2.55	0.42
3:C:374:VAL:C	3:C:375:SER:O	2.57	0.42
3:C:457:TYR:CD1	3:C:457:TYR:N	2.87	0.42
3:C:548:GLN:HA	3:C:554:GLN:O	2.20	0.42
3:C:659:TRP:HH2	3:C:667:ARG:HD3	1.85	0.42
3:C:586:VAL:HB	3:C:742:LEU:HD21	2.01	0.42
3:C:988:LYS:HE2	3:C:988:LYS:HB3	1.94	0.42
4:D:298:PRO:HD3	4:D:483:GLU:O	2.19	0.42
4:D:170:VAL:HG13	4:D:594:GLN:CG	2.49	0.42
1:E:158:VAL:HG22	1:E:333:PRO:CA	2.45	0.42
1:E:251:ILE:HG23	1:E:275:VAL:HG11	2.00	0.42
2:F:240:VAL:O	2:F:242:SER:N	2.53	0.42
2:F:314:LYS:O	2:F:317:GLY:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:48:ASP:O	2:F:50:VAL:N	2.52	0.42
2:F:89:LEU:O	2:F:91:ASP:N	2.53	0.42
3:G:1322:PHE:HB3	3:G:1325:GLN:CD	2.40	0.42
3:G:1420:GLN:NE2	3:G:1421:PHE:CE2	2.87	0.42
3:G:343:PHE:CB	3:G:365:VAL:HG12	2.50	0.42
4:H:212:LYS:O	4:H:215:ASP:N	2.42	0.42
4:H:558:ASN:HA	4:H:559:PRO:HD2	1.88	0.42
4:H:591:ILE:H	4:H:591:ILE:HG12	1.68	0.42
1:A:244:LEU:HB3	1:A:252:HIS:NE2	2.35	0.41
2:B:192:LEU:HA	2:B:195:PHE:CE2	2.55	0.41
2:B:22:TYR:N	2:B:25:CYS:CB	2.82	0.41
2:B:293:LYS:HE2	2:B:297:GLU:CD	2.40	0.41
2:B:394:LEU:HG	2:B:398:LEU:HD11	2.02	0.41
3:C:1100:LEU:HA	3:C:1100:LEU:HD23	1.74	0.41
3:C:1103:GLN:HB3	3:C:1107:THR:HG21	2.02	0.41
3:C:1192:ALA:C	3:C:1193:TYR:CD1	2.94	0.41
3:C:1293:ASP:OD1	3:C:1293:ASP:N	2.48	0.41
3:C:1328:ASN:O	3:C:1329:LYS:C	2.59	0.41
3:C:1406:GLU:HG2	3:C:1406:GLU:H	1.69	0.41
3:C:350:GLU:OE2	3:C:482:SER:HB2	2.19	0.41
3:C:410:MET:HE1	3:C:453:LEU:HA	2.02	0.41
3:C:636:GLY:HA3	3:C:639:ILE:CD1	2.42	0.41
3:C:787:ARG:O	3:C:790:PHE:HB2	2.19	0.41
4:D:407:ARG:NH1	4:D:407:ARG:HG3	2.33	0.41
4:D:480:LEU:CD1	4:D:511:LEU:HB2	2.47	0.41
1:E:211:PHE:CD1	1:E:211:PHE:C	2.94	0.41
2:F:119:TRP:HE3	2:F:120:PHE:N	2.18	0.41
2:F:195:PHE:HB2	2:F:202:LEU:HD11	2.03	0.41
3:G:1006:ILE:CG2	3:G:1008:ILE:HD11	2.49	0.41
3:G:1023:ASN:O	3:G:1024:LYS:C	2.58	0.41
3:G:1182:ASP:HB2	3:G:1184:SER:HB3	2.01	0.41
3:G:439:TYR:OH	3:G:441:PHE:HB2	2.19	0.41
3:G:589:PRO:CG	3:G:592:CYS:CB	2.94	0.41
3:G:643:GLU:HA	3:G:646:VAL:CG2	2.50	0.41
2:F:115:GLU:CB	3:G:989:GLU:OE2	2.68	0.41
4:H:240:PHE:CE1	4:H:254:LEU:HB2	2.55	0.41
2:B:127:LEU:HA	2:B:127:LEU:HD12	1.71	0.41
2:B:279:LEU:C	2:B:284:PHE:HE1	2.23	0.41
3:C:1026:LYS:O	3:C:1027:SER:C	2.58	0.41
3:C:1074:LEU:HB3	3:C:1077:LEU:CD1	2.49	0.41
3:C:1081:ARG:CD	3:C:1352:THR:O	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:523:PRO:C	3:C:525:LEU:N	2.73	0.41
3:C:560:MET:SD	3:C:622:PHE:CG	3.13	0.41
3:C:623:LEU:HD22	3:C:661:LYS:HB2	2.01	0.41
3:C:784:ARG:HG2	3:C:784:ARG:HH11	1.85	0.41
4:D:287:ASP:HB3	4:D:315:VAL:HA	2.01	0.41
4:D:367:ILE:CG2	4:D:375:CYS:SG	3.08	0.41
1:E:163:ARG:HH21	1:E:163:ARG:HG2	1.84	0.41
1:E:67:GLU:C	1:E:71:GLN:HG3	2.39	0.41
2:F:282:LYS:HE2	2:F:282:LYS:HB3	1.94	0.41
2:F:370:ILE:O	2:F:370:ILE:CG2	2.68	0.41
2:F:315:GLY:C	2:F:445:ASN:ND2	2.73	0.41
3:G:1345:TRP:CH2	3:G:1358:ARG:HG3	2.55	0.41
3:G:1276:CYS:HB3	3:G:1391:GLN:OE1	2.20	0.41
3:G:1428:GLN:HA	3:G:1431:ARG:NH2	2.34	0.41
3:G:383:ILE:HG12	3:G:523:PRO:CG	2.50	0.41
3:G:760:ASN:CB	3:G:944:ILE:HD11	2.45	0.41
3:G:881:ARG:HH11	3:G:972:LEU:HD21	1.85	0.41
4:H:174:PHE:CG	4:H:175:GLY:N	2.88	0.41
3:G:1342:TYR:CB	4:H:519:ALA:HB1	2.48	0.41
4:H:567:VAL:CG1	4:H:568:GLY:N	2.67	0.41
1:A:118:VAL:O	1:A:118:VAL:HG12	2.19	0.41
1:A:166:HIS:CD2	1:A:166:HIS:N	2.88	0.41
2:B:358:LYS:HG3	2:B:362:TYR:HB3	2.02	0.41
2:B:67:THR:O	2:B:70:TYR:HB3	2.20	0.41
3:C:1150:LYS:O	3:C:1190:GLN:HG3	2.19	0.41
3:C:1209:GLN:O	3:C:1210:TYR:C	2.58	0.41
3:C:1251:TYR:CE1	3:C:1253:LYS:HB3	2.55	0.41
3:C:488:LEU:HD23	3:C:488:LEU:H	1.83	0.41
3:C:577:PRO:CB	3:C:578:PRO:CD	2.97	0.41
3:C:765:ALA:O	3:C:766:LEU:C	2.57	0.41
3:C:858:LEU:HD12	3:C:1007:MET:HA	2.02	0.41
4:D:333:GLU:N	4:D:333:GLU:OE1	2.54	0.41
4:D:460:CYS:O	4:D:471:LEU:N	2.53	0.41
2:F:273:LEU:C	2:F:275:GLN:H	2.24	0.41
3:G:1015:LEU:HD12	3:G:1018:VAL:HB	2.01	0.41
3:G:1186:LEU:CD2	3:G:1187:THR:N	2.81	0.41
3:G:1217:HIS:CD2	3:G:1246:PHE:CZ	3.08	0.41
3:G:446:VAL:HA	3:G:447:PRO:HD2	1.78	0.41
3:G:513:TRP:NE1	3:G:666:LYS:HG2	2.35	0.41
3:G:522:LYS:CG	3:G:525:LEU:HD11	2.48	0.41
3:G:589:PRO:HG2	3:G:590:LYS:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:861:PHE:HA	3:G:861:PHE:HD2	1.69	0.41
3:G:926:LYS:HA	3:G:926:LYS:HZ3	1.85	0.41
3:G:951:LEU:O	3:G:952:THR:C	2.57	0.41
4:H:343:LEU:HG	4:H:344:VAL:N	2.35	0.41
1:A:139:ILE:O	1:A:143:ASP:HB2	2.21	0.41
1:A:108:PHE:N	1:A:167:CYS:SG	2.93	0.41
1:A:208:ILE:HG23	1:A:212:ILE:CB	2.49	0.41
1:A:298:LEU:O	1:A:300:TYR:N	2.53	0.41
2:B:56:VAL:CG2	2:B:127:LEU:HD13	2.48	0.41
2:B:138:ASP:HA	2:B:141:GLN:CD	2.40	0.41
2:B:259:GLY:O	2:B:260:GLN:CB	2.68	0.41
2:B:371:ILE:HG22	2:B:372:LEU:HD23	2.01	0.41
3:C:1036:LEU:O	3:C:1037:GLU:CG	2.61	0.41
3:C:1140:THR:O	3:C:1140:THR:CG2	2.61	0.41
3:C:1374:CYS:SG	3:C:1376:LYS:N	2.84	0.41
3:C:1415:ASP:O	3:C:1416:LYS:C	2.59	0.41
3:C:1334:ILE:HG22	3:C:1440:PHE:CE1	2.54	0.41
3:C:360:PHE:HB3	3:C:362:PHE:HE1	1.86	0.41
3:C:438:ASN:HA	3:C:448:GLU:O	2.20	0.41
3:C:771:ILE:HG13	3:C:771:ILE:H	1.64	0.41
3:C:775:ILE:HG22	3:C:778:ARG:HG2	2.01	0.41
4:D:479:HIS:ND1	4:D:509:TYR:CZ	2.88	0.41
4:D:540:ILE:C	4:D:541:PRO:O	2.59	0.41
2:F:120:PHE:O	2:F:121:ILE:C	2.59	0.41
2:F:38:SER:O	2:F:40:ILE:N	2.54	0.41
3:G:1294:ASN:ND2	3:G:1295:VAL:N	2.68	0.41
3:G:366:TRP:CH2	3:G:371:GLU:HA	2.55	0.41
4:H:219:VAL:O	4:H:221:THR:N	2.53	0.41
4:H:476:LEU:O	4:H:480:LEU:HD23	2.21	0.41
4:H:541:PRO:O	4:H:542:SER:HB3	2.19	0.41
1:A:13:LEU:CD2	1:A:17:TYR:CE2	3.04	0.41
1:A:234:LEU:CG	1:A:243:ILE:HD12	2.51	0.41
1:A:162:ARG:HG3	1:A:327:THR:HG21	2.02	0.41
1:A:76:TYR:N	1:A:76:TYR:CD1	2.88	0.41
2:B:120:PHE:O	2:B:123:GLN:N	2.53	0.41
2:B:285:PRO:HA	2:B:447:PHE:CE2	2.55	0.41
2:B:431:ILE:HG23	2:B:432:HIS:HD1	1.84	0.41
3:C:1137:LYS:HZ2	3:C:1153:PRO:HG2	1.84	0.41
3:C:1157:VAL:HG21	3:C:1177:TYR:HB2	1.98	0.41
3:C:1211:TYR:HA	3:C:1215:GLN:CB	2.49	0.41
3:C:1328:ASN:CG	4:D:398:PHE:CE2	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:359:VAL:HG11	3:C:484:LEU:HD13	2.02	0.41
3:C:638:ASN:ND2	3:C:642:PHE:HD1	2.19	0.41
3:C:901:LEU:C	3:C:902:PRO:O	2.59	0.41
3:C:843:LEU:CA	3:C:981:ARG:HG2	2.48	0.41
4:D:243:LEU:HD22	4:D:253:LEU:CD1	2.45	0.41
4:D:182:TRP:HB3	4:D:341:MET:HE3	2.03	0.41
4:D:445:LEU:CG	4:D:450:LYS:HZ3	2.34	0.41
4:D:182:TRP:CZ3	4:D:575:TYR:CD2	3.08	0.41
1:E:82:ALA:CB	1:E:104:LYS:HD3	2.47	0.41
2:F:311:LEU:C	2:F:313:LEU:N	2.74	0.41
2:F:73:LYS:O	2:F:76:SER:HB2	2.20	0.41
3:G:1055:TYR:C	3:G:1055:TYR:HD1	2.24	0.41
3:G:1240:GLY:HA3	3:G:1242:ASP:OD1	2.20	0.41
3:G:1245:GLN:HA	3:G:1248:VAL:CG2	2.50	0.41
3:G:1359:HIS:CD2	3:G:1359:HIS:C	2.94	0.41
3:G:1408:LEU:HD12	3:G:1413:GLU:OE1	2.19	0.41
3:G:1427:LEU:HB3	3:G:1431:ARG:HH22	1.85	0.41
3:G:362:PHE:CG	3:G:687:GLY:HA2	2.55	0.41
3:G:532:VAL:CG1	3:G:533:SER:N	2.84	0.41
3:G:661:LYS:C	3:G:663:GLY:H	2.23	0.41
3:G:349:TYR:CD1	3:G:665:LEU:HD12	2.48	0.41
3:G:693:VAL:O	3:G:694:GLU:C	2.58	0.41
3:G:778:ARG:O	3:G:780:LEU:N	2.54	0.41
3:G:903:ASP:OD1	3:G:905:SER:CB	2.68	0.41
3:G:975:LEU:CD1	3:G:975:LEU:C	2.82	0.41
4:H:422:PHE:N	4:H:422:PHE:HD2	2.19	0.41
4:H:469:PHE:CD2	4:H:539:ILE:HD11	2.55	0.41
1:A:106:LEU:HA	1:A:106:LEU:HD12	1.75	0.41
2:B:218:ILE:HG22	2:B:219:LEU:N	2.34	0.41
2:B:34:SER:O	2:B:35:GLU:O	2.38	0.41
2:B:385:PRO:C	2:B:387:ARG:N	2.74	0.41
2:B:87:GLU:HA	2:B:93:TYR:CE1	2.55	0.41
3:C:1042:GLY:O	3:C:1043:VAL:HG23	2.21	0.41
3:C:1193:TYR:CE2	3:C:1204:LEU:CD1	3.04	0.41
3:C:1217:HIS:N	3:C:1218:PRO:CD	2.84	0.41
3:C:1242:ASP:N	3:C:1243:PRO:CD	2.84	0.41
3:C:1305:PRO:O	3:C:1308:TYR:N	2.47	0.41
3:C:438:ASN:O	3:C:802:ILE:HG12	2.20	0.41
3:C:583:PHE:CD1	3:C:583:PHE:C	2.93	0.41
3:C:729:GLN:O	3:C:732:TYR:HB2	2.20	0.41
3:C:711:LEU:C	3:C:755:ILE:HD11	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:932:GLN:CG	3:C:933:ASP:N	2.84	0.41
4:D:548:VAL:CG1	4:D:557:VAL:HG22	2.49	0.41
1:E:209:HIS:ND1	1:E:211:PHE:N	2.67	0.41
2:F:407:GLY:O	2:F:408:ILE:C	2.58	0.41
3:G:857:LEU:CD1	3:G:1018:VAL:CG1	2.99	0.41
3:G:1337:PHE:CE2	3:G:1391:GLN:CG	2.98	0.41
3:G:381:LYS:HD3	3:G:519:MET:HE2	2.03	0.41
3:G:664:ARG:HD2	3:G:688:ARG:HG3	2.03	0.41
3:G:794:HIS:O	3:G:795:ALA:C	2.59	0.41
3:G:868:ILE:C	3:G:870:GLN:H	2.24	0.41
4:H:213:LEU:H	4:H:213:LEU:HG	1.69	0.41
4:H:419:HIS:O	4:H:420:LEU:HD23	2.20	0.41
4:H:503:LEU:HD11	4:H:554:CYS:HB3	2.01	0.41
4:H:544:LEU:O	4:H:545:ARG:C	2.59	0.41
1:A:139:ILE:HG22	1:A:140:ARG:N	2.35	0.41
1:A:237:LYS:O	1:A:241:ASP:N	2.49	0.41
1:A:344:PRO:HD2	1:A:345:PHE:CZ	2.56	0.41
1:A:350:ILE:CA	1:A:353:ILE:HG12	2.47	0.41
2:B:178:LEU:HD11	2:B:183:ILE:HD11	2.02	0.41
2:B:245:ARG:C	2:B:246:LEU:HD23	2.41	0.41
2:B:46:ALA:HA	2:B:106:LEU:HD11	2.03	0.41
2:B:44:ASN:O	2:B:48:ASP:OD2	2.39	0.41
3:C:1054:LYS:HB2	3:C:1054:LYS:HE2	1.97	0.41
3:C:1211:TYR:O	3:C:1215:GLN:HB2	2.20	0.41
3:C:1234:LEU:HG	3:C:1238:TRP:CZ3	2.56	0.41
3:C:430:PHE:CD2	3:C:430:PHE:N	2.88	0.41
3:C:589:PRO:HG2	3:C:592:CYS:HB2	2.02	0.41
3:C:701:ILE:HG13	3:C:702:ARG:N	2.35	0.41
3:C:935:ASN:ND2	3:C:937:ASP:CB	2.69	0.41
4:D:279:SER:O	4:D:281:GLY:N	2.53	0.41
1:E:237:LYS:HA	1:E:240:TRP:NE1	2.35	0.41
1:E:398:PHE:CE2	1:E:402:LEU:HD21	2.55	0.41
1:E:406:ARG:O	1:E:410:LEU:HB2	2.21	0.41
2:F:161:LEU:CD2	2:F:162:ARG:NH1	2.84	0.41
2:F:298:ASN:N	2:F:298:ASN:ND2	2.68	0.41
3:G:1273:TYR:N	3:G:1273:TYR:CD1	2.89	0.41
3:G:395:LYS:HB2	3:G:408:ILE:CD1	2.47	0.41
3:G:855:PHE:CD2	3:G:1045:LYS:HA	2.56	0.41
3:G:901:LEU:HD12	3:G:902:PRO:O	2.20	0.41
4:H:403:LYS:HE2	4:H:442:TYR:CE1	2.55	0.41
1:A:174:VAL:HA	1:A:177:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:274:LYS:O	1:A:275:VAL:C	2.59	0.41
1:A:118:VAL:HG13	1:A:300:TYR:CG	2.56	0.41
2:B:275:GLN:O	2:B:279:LEU:HG	2.21	0.41
2:B:311:LEU:C	2:B:313:LEU:N	2.73	0.41
3:C:1319:PRO:O	3:C:1320:LEU:C	2.58	0.41
3:C:1345:TRP:HE1	3:C:1356:ARG:HH12	1.62	0.41
3:C:365:VAL:CG1	3:C:376:CYS:SG	3.09	0.41
3:C:560:MET:HE3	3:C:622:PHE:CD2	2.55	0.41
3:C:577:PRO:HB2	3:C:578:PRO:HD2	2.02	0.41
3:C:602:ILE:HD13	3:C:609:VAL:CG1	2.43	0.41
3:C:651:ILE:CD1	3:C:659:TRP:HA	2.50	0.41
3:C:694:GLU:HG3	3:C:698:LYS:HE2	2.03	0.41
3:C:723:ILE:N	3:C:723:ILE:CD1	2.68	0.41
3:C:759:LEU:N	3:C:759:LEU:CD2	2.79	0.41
3:C:807:GLN:O	3:C:808:ILE:HG13	2.20	0.41
4:D:212:LYS:O	4:D:214:PRO:N	2.53	0.41
4:D:292:LYS:H	4:D:292:LYS:CD	2.34	0.41
4:D:349:TYR:CE1	4:D:381:PHE:CD1	3.09	0.41
4:D:428:ASP:O	4:D:430:HIS:N	2.53	0.41
1:E:142:ILE:HG23	1:E:189:LEU:HD13	2.03	0.41
1:E:329:ARG:H	1:E:329:ARG:HG2	1.72	0.41
1:E:349:THR:O	1:E:353:ILE:HG23	2.20	0.41
1:E:68:LYS:HE3	1:E:72:LYS:CE	2.51	0.41
2:F:276:ILE:HA	2:F:279:LEU:HD12	2.01	0.41
2:F:283:SER:O	2:F:447:PHE:CE2	2.74	0.41
2:F:445:ASN:C	2:F:448:PHE:H	2.24	0.41
3:G:1192:ALA:C	3:G:1193:TYR:CD1	2.84	0.41
3:G:1050:LEU:CD1	3:G:1226:PRO:HG2	2.49	0.41
3:G:1294:ASN:ND2	3:G:1295:VAL:H	2.19	0.41
3:G:540:MET:SD	3:G:562:ALA:HB1	2.61	0.41
3:G:563:LEU:HD22	3:G:563:LEU:HA	1.84	0.41
3:G:649:GLN:C	3:G:651:ILE:N	2.74	0.41
3:G:710:GLU:O	3:G:713:GLN:N	2.54	0.41
3:G:784:ARG:HG2	3:G:784:ARG:HH11	1.86	0.41
3:G:787:ARG:O	3:G:790:PHE:HB2	2.20	0.41
3:G:804:PRO:HG2	3:G:967:PHE:CD2	2.54	0.41
4:H:294:TYR:CD1	4:H:294:TYR:C	2.93	0.41
4:H:297:PHE:CD1	4:H:298:PRO:O	2.72	0.41
4:H:376:ILE:C	4:H:377:LEU:HD23	2.41	0.41
4:H:426:LEU:HD23	4:H:437:GLN:NE2	2.36	0.41
4:H:569:GLY:O	4:H:570:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:LYS:HG2	1:A:148:GLU:N	2.36	0.41
1:A:330:ILE:HG21	1:A:388:LEU:HD11	2.02	0.41
2:B:200:VAL:HG11	2:B:209:VAL:HG13	2.03	0.41
3:C:1160:TRP:HE3	3:C:1161:ILE:CG1	2.31	0.41
3:C:1230:ILE:CD1	3:C:1238:TRP:HH2	2.34	0.41
3:C:1235:ILE:O	3:C:1238:TRP:N	2.54	0.41
3:C:1417:LEU:HD11	3:C:1421:PHE:HE2	1.85	0.41
3:C:523:PRO:C	3:C:525:LEU:H	2.22	0.41
3:C:585:VAL:HB	3:C:621:PHE:CD2	2.56	0.41
3:C:681:GLU:N	3:C:681:GLU:OE1	2.54	0.41
3:C:929:MET:O	3:C:929:MET:CG	2.69	0.41
3:C:982:GLU:C	3:C:984:LEU:H	2.25	0.41
1:E:174:VAL:CA	1:E:177:LEU:HG	2.49	0.41
1:E:213:ARG:CG	1:E:213:ARG:HH11	2.33	0.41
2:F:427:TYR:CD1	2:F:427:TYR:C	2.93	0.41
2:F:49:ARG:HD3	2:F:102:SER:OG	2.21	0.41
2:F:75:GLU:HA	2:F:78:LEU:HB2	2.01	0.41
3:G:505:GLN:O	3:G:506:LEU:HD23	2.20	0.41
3:G:765:ALA:O	3:G:766:LEU:C	2.59	0.41
4:H:363:LEU:HD21	4:H:377:LEU:HD11	2.03	0.41
4:H:383:ASP:OD1	4:H:385:LYS:N	2.45	0.41
4:H:447:ARG:NH2	4:H:450:LYS:HB2	2.36	0.41
2:B:327:TRP:O	2:B:328:LYS:C	2.59	0.41
2:B:441:LEU:HD11	2:B:446:GLN:HG2	2.02	0.41
3:C:1099:ILE:O	3:C:1100:LEU:HD23	2.21	0.41
3:C:1244:THR:CG2	3:C:1247:ARG:NH2	2.77	0.41
3:C:1416:LYS:HE2	3:C:1420:GLN:HB2	2.02	0.41
3:C:457:TYR:N	3:C:457:TYR:HD1	2.19	0.41
3:C:532:VAL:HA	3:G:366:TRP:CD1	2.56	0.41
3:C:800:ASN:ND2	3:C:800:ASN:O	2.54	0.41
1:E:208:ILE:HG23	1:E:212:ILE:HB	2.02	0.41
2:F:285:PRO:HB3	2:F:447:PHE:CE2	2.55	0.41
3:G:1203:ASN:N	3:G:1203:ASN:OD1	2.50	0.41
3:G:1305:PRO:O	3:G:1306:SER:C	2.59	0.41
3:G:1340:LYS:HD3	3:G:1383:TYR:CG	2.56	0.41
3:G:1356:ARG:NH1	3:G:1356:ARG:HG2	2.36	0.41
3:G:1388:LEU:C	3:G:1390:THR:N	2.72	0.41
3:G:394:MET:SD	3:G:406:THR:O	2.79	0.41
3:G:394:MET:SD	3:G:406:THR:C	2.99	0.41
3:G:340:VAL:HG23	3:G:501:VAL:O	2.21	0.41
3:G:843:LEU:HD11	3:G:845:LEU:HG	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:424:PRO:HG2	4:H:458:GLU:HB2	2.03	0.41
4:H:544:LEU:HD23	4:H:544:LEU:HA	1.81	0.41
1:A:144:ARG:NH2	1:A:144:ARG:HG2	2.35	0.41
1:A:324:HIS:HA	1:A:325:PRO:HD3	1.96	0.41
2:B:118:ARG:CB	2:B:118:ARG:CZ	2.98	0.41
2:B:125:MET:O	2:B:129:ARG:HG3	2.21	0.41
2:B:199:LYS:O	2:B:200:VAL:CG1	2.69	0.41
2:B:444:PRO:O	2:B:445:ASN:C	2.59	0.41
2:B:85:TYR:HB3	2:B:86:ARG:H	1.53	0.41
3:C:1094:PHE:CE1	3:C:1115:ARG:HG2	2.55	0.41
3:C:1227:ILE:CG2	3:C:1230:ILE:HG12	2.50	0.41
3:C:1388:LEU:C	3:C:1390:THR:N	2.73	0.41
3:C:747:LYS:O	3:C:751:PHE:HD1	1.99	0.41
3:C:908:MET:HB2	3:C:913:ARG:CD	2.51	0.41
3:C:982:GLU:O	3:C:984:LEU:N	2.54	0.41
4:D:381:PHE:CE2	4:D:440:PHE:CE2	3.07	0.41
4:D:383:ASP:HB3	4:D:386:HIS:HB2	2.02	0.41
4:D:517:ASP:N	4:D:517:ASP:OD1	2.54	0.41
4:D:546:TYR:H	4:D:546:TYR:HD1	1.59	0.41
1:E:202:VAL:CG2	1:E:299:GLN:HB2	2.50	0.41
1:E:251:ILE:HG22	1:E:251:ILE:O	2.20	0.41
1:E:324:HIS:HA	1:E:325:PRO:HD3	1.86	0.41
2:F:178:LEU:HD11	2:F:183:ILE:CD1	2.50	0.41
2:F:83:PHE:HD2	2:F:99:ASP:HB2	1.85	0.41
2:F:347:TYR:CD2	3:G:1238:TRP:HD1	2.39	0.41
3:G:1369:PRO:HG2	3:G:1379:LEU:HG	2.03	0.41
3:G:1415:ASP:O	3:G:1416:LYS:C	2.59	0.41
3:G:421:ILE:HG23	3:G:425:TYR:CE2	2.55	0.41
3:G:715:ILE:HD12	3:G:755:ILE:CD1	2.51	0.41
3:G:922:ARG:HH22	3:G:950:LYS:NZ	2.18	0.41
3:G:958:GLY:O	3:G:962:PHE:HB2	2.21	0.41
4:H:201:ALA:O	4:H:202:LEU:HB3	2.21	0.41
4:H:231:LEU:HB3	4:H:303:ILE:CD1	2.51	0.41
4:H:389:VAL:HA	4:H:394:LEU:CD1	2.51	0.41
4:H:513:PRO:HA	4:H:514:PRO:HD2	1.44	0.41
1:A:256:GLN:HE21	1:A:256:GLN:HB2	1.65	0.40
1:A:388:LEU:C	1:A:390:PRO:HD2	2.41	0.40
1:A:406:ARG:O	1:A:410:LEU:HB2	2.20	0.40
2:B:38:SER:O	2:B:41:GLU:N	2.53	0.40
2:B:87:GLU:HA	2:B:93:TYR:CD1	2.56	0.40
3:C:1182:ASP:CG	3:C:1193:TYR:OH	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1293:ASP:O	3:C:1294:ASN:HB2	2.21	0.40
3:C:1389:TYR:HD2	3:C:1389:TYR:O	2.02	0.40
3:C:489:MET:O	3:C:490:ASN:C	2.60	0.40
3:C:720:ARG:HH12	3:C:722:VAL:CG1	2.34	0.40
3:C:553:HIS:HB3	4:D:307:ILE:HD12	1.94	0.40
4:D:355:ILE:O	4:D:355:ILE:HG22	2.21	0.40
4:D:426:LEU:HG	4:D:437:GLN:NE2	2.36	0.40
1:E:82:ALA:HB1	1:E:103:GLU:O	2.21	0.40
2:F:137:LYS:HZ1	2:F:181:GLU:HG2	1.87	0.40
2:F:258:THR:OG1	2:F:261:ASP:CA	2.68	0.40
2:F:295:LEU:CD1	2:F:295:LEU:O	2.66	0.40
2:F:295:LEU:HD11	2:F:330:GLU:CG	2.51	0.40
2:F:419:HIS:HB3	2:F:422:VAL:CG2	2.48	0.40
3:G:559:ALA:O	3:G:560:MET:HG2	2.22	0.40
3:G:659:TRP:O	3:G:661:LYS:N	2.55	0.40
3:G:907:GLU:HA	3:G:907:GLU:OE1	2.21	0.40
1:A:192:VAL:HG21	1:A:304:ARG:HG2	2.03	0.40
1:A:357:LEU:HD13	1:A:382:ASP:OD1	2.21	0.40
2:B:112:GLN:O	2:B:117:ARG:CZ	2.69	0.40
2:B:22:TYR:CB	2:B:23:PRO:CD	2.99	0.40
2:B:401:TYR:HD2	2:B:427:TYR:CE2	2.39	0.40
3:C:1184:SER:C	3:C:1186:LEU:N	2.72	0.40
3:C:948:ALA:O	3:C:949:LEU:C	2.59	0.40
4:D:302:VAL:HG21	4:D:304:MET:HG3	2.02	0.40
4:D:341:MET:HB2	4:D:575:TYR:CE1	2.56	0.40
4:D:357:TYR:O	4:D:358:ASP:C	2.58	0.40
4:D:381:PHE:CE2	4:D:440:PHE:HE2	2.36	0.40
1:E:196:GLN:N	1:E:196:GLN:OE1	2.52	0.40
1:E:57:TYR:HB3	1:E:88:PRO:O	2.21	0.40
2:F:184:TYR:OH	2:F:211:LEU:CD1	2.70	0.40
2:F:303:HIS:HA	2:F:306:ARG:CZ	2.50	0.40
3:G:859:LEU:HD22	3:G:1040:ILE:HA	2.02	0.40
3:G:1236:ALA:CB	3:G:1246:PHE:CE2	3.05	0.40
3:G:1340:LYS:O	3:G:1342:TYR:N	2.54	0.40
3:G:1376:LYS:HE2	3:G:1376:LYS:C	2.41	0.40
3:G:637:HIS:O	3:G:639:ILE:HD13	2.21	0.40
3:G:752:ILE:CG2	3:G:752:ILE:O	2.65	0.40
3:G:864:LEU:N	3:G:866:PRO:HD2	2.36	0.40
4:H:306:GLY:CA	4:H:317:THR:HG23	2.24	0.40
4:H:382:LEU:O	4:H:429:VAL:HG12	2.21	0.40
1:A:209:HIS:CG	1:A:210:PRO:N	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:ALA:HA	1:A:231:GLN:HB2	2.04	0.40
1:A:275:VAL:O	1:A:279:TYR:N	2.54	0.40
1:A:46:SER:C	1:A:47:PHE:HD1	2.25	0.40
2:B:167:VAL:HG23	2:B:178:LEU:HD13	2.03	0.40
3:C:1376:LYS:O	3:C:1376:LYS:CG	2.70	0.40
3:C:549:ASN:N	3:C:554:GLN:O	2.54	0.40
3:C:614:THR:O	3:C:617:THR:N	2.50	0.40
3:C:710:GLU:O	3:C:712:VAL:N	2.54	0.40
4:D:287:ASP:HB3	4:D:315:VAL:CG1	2.52	0.40
4:D:406:LEU:HD12	4:D:406:LEU:HA	1.90	0.40
2:F:314:LYS:HG3	2:F:353:PHE:HE2	1.85	0.40
2:F:327:TRP:O	2:F:328:LYS:C	2.59	0.40
2:F:367:CYS:C	2:F:369:LYS:N	2.70	0.40
3:G:1000:TYR:HB3	3:G:1007:MET:HB2	2.03	0.40
3:G:1116:LEU:O	3:G:1117:ILE:C	2.60	0.40
3:G:1154:HIS:NE2	3:G:1155:VAL:CG2	2.81	0.40
3:G:960:LEU:HA	3:G:960:LEU:HD23	1.80	0.40
4:H:156:THR:CG2	4:H:159:GLN:HB2	2.51	0.40
4:H:164:ARG:O	4:H:164:ARG:HG2	2.21	0.40
4:H:243:LEU:HD22	4:H:253:LEU:HB3	2.04	0.40
4:H:333:GLU:O	4:H:337:PHE:CE2	2.74	0.40
4:H:403:LYS:HE2	4:H:442:TYR:CD1	2.56	0.40
1:A:347:VAL:HA	1:A:348:PRO:HD2	1.90	0.40
1:A:393:LYS:HE3	1:A:393:LYS:O	2.21	0.40
2:B:229:ALA:O	2:B:233:THR:HG23	2.22	0.40
2:B:273:LEU:C	2:B:275:GLN:H	2.24	0.40
2:B:359:ARG:NH1	2:B:359:ARG:HG3	2.33	0.40
2:B:40:ILE:H	2:B:40:ILE:HG13	1.65	0.40
3:C:1136:ASN:HA	3:C:1175:VAL:O	2.22	0.40
3:C:1220:VAL:O	3:C:1223:ILE:HB	2.22	0.40
3:C:637:HIS:N	3:C:752:ILE:HD13	2.36	0.40
3:C:762:LEU:CD2	3:C:762:LEU:N	2.85	0.40
3:C:974:ALA:O	3:C:977:THR:OG1	2.33	0.40
4:D:227:LEU:HD11	4:D:231:LEU:CD1	2.50	0.40
4:D:430:HIS:CD2	4:D:440:PHE:HE1	2.40	0.40
4:D:450:LYS:HA	4:D:450:LYS:HZ2	1.85	0.40
1:E:184:GLY:O	1:E:187:GLU:HB2	2.21	0.40
1:E:242:LYS:HE3	1:E:242:LYS:HB2	1.88	0.40
1:E:302:PHE:CZ	1:E:303:PRO:O	2.75	0.40
1:E:343:ASP:OD1	1:E:346:THR:N	2.51	0.40
1:E:57:TYR:HD2	1:E:57:TYR:H	1.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:66:LEU:O	1:E:70:MET:CB	2.69	0.40
2:F:112:GLN:HB2	2:F:113:SER:H	1.74	0.40
2:F:116:LEU:HD23	2:F:116:LEU:HA	1.79	0.40
3:G:1284:PRO:CG	3:G:1325:GLN:HE21	2.33	0.40
3:G:346:LEU:HB3	3:G:689:MET:HE2	2.03	0.40
3:G:389:PHE:HE1	3:G:455:VAL:HG21	1.87	0.40
3:G:489:MET:HE3	3:G:793:LEU:HB3	2.03	0.40
3:G:991:VAL:HA	3:G:994:MET:CE	2.52	0.40
4:H:514:PRO:O	4:H:515:GLN:O	2.38	0.40
1:A:335:ASP:OD1	1:A:338:LYS:CG	2.69	0.40
1:A:26:TYR:HE1	1:A:80:ILE:HD11	1.87	0.40
2:B:240:VAL:O	2:B:242:SER:N	2.54	0.40
2:B:320:LEU:HD12	2:B:321:GLU:N	2.37	0.40
2:B:365:PHE:CD1	2:B:369:LYS:HE3	2.56	0.40
2:B:417:GLY:O	2:B:418:THR:CG2	2.66	0.40
2:B:421:GLN:HE22	2:B:442:ASN:HA	1.83	0.40
3:C:983:ILE:HG23	3:C:1033:TYR:OH	2.21	0.40
3:C:1208:THR:OG1	3:C:1209:GLN:N	2.54	0.40
3:C:1445:GLY:O	3:C:1447:SER:N	2.55	0.40
3:C:549:ASN:CB	3:C:554:GLN:HG3	2.51	0.40
3:C:664:ARG:HG3	3:C:688:ARG:CZ	2.49	0.40
3:C:724:PRO:CB	3:C:726:GLU:HG3	2.28	0.40
3:C:441:PHE:CZ	3:C:796:PHE:CZ	3.10	0.40
3:C:954:ASN:ND2	3:C:954:ASN:N	2.59	0.40
4:D:241:THR:OG1	4:D:251:VAL:HG12	2.22	0.40
4:D:375:CYS:HB2	4:D:420:LEU:HD22	2.03	0.40
4:D:423:VAL:HA	4:D:424:PRO:HD2	1.88	0.40
4:D:514:PRO:O	4:D:515:GLN:O	2.39	0.40
1:E:398:PHE:O	1:E:402:LEU:CD1	2.65	0.40
1:E:61:ASN:HB2	1:E:65:ASP:OD1	2.22	0.40
2:F:337:ASP:HB3	2:F:340:LYS:HB2	2.02	0.40
2:F:56:VAL:CG1	2:F:126:ASP:HB3	2.51	0.40
2:F:95:PRO:O	2:F:96:ARG:C	2.59	0.40
3:G:1024:LYS:HD3	3:G:1024:LYS:HA	1.77	0.40
3:G:1139:LEU:HD11	3:G:1175:VAL:HG23	2.04	0.40
3:G:1243:PRO:O	3:G:1244:THR:C	2.59	0.40
3:G:1350:GLU:HA	3:G:1351:PRO:HD3	1.85	0.40
3:G:795:ALA:O	3:G:797:TYR:N	2.54	0.40
2:F:377:SER:OG	3:G:854:LYS:HE3	2.22	0.40
4:H:166:ASN:O	4:H:167:ARG:C	2.60	0.40
4:H:226:GLU:O	4:H:229:SER:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:318:LYS:CE	4:H:320:TYR:CE2	2.94	0.40
4:H:363:LEU:HD21	4:H:377:LEU:CD1	2.51	0.40
4:H:328:TYR:HB2	4:H:468:ILE:HG13	2.03	0.40
4:H:538:LEU:CD1	4:H:540:ILE:HG13	2.52	0.40
4:H:542:SER:HA	4:H:561:ARG:NH2	2.36	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	383/420 (91%)	326 (85%)	45 (12%)	12 (3%)	5	43
1	E	383/420 (91%)	336 (88%)	36 (9%)	11 (3%)	6	44
2	B	432/509 (85%)	291 (67%)	93 (22%)	48 (11%)	0	9
2	F	432/509 (85%)	295 (68%)	84 (19%)	53 (12%)	0	8
3	C	1047/1128 (93%)	731 (70%)	226 (22%)	90 (9%)	1	14
3	G	1047/1128 (93%)	743 (71%)	209 (20%)	95 (9%)	1	13
4	D	442/597 (74%)	325 (74%)	79 (18%)	38 (9%)	1	14
4	H	442/597 (74%)	330 (75%)	73 (16%)	39 (9%)	1	14
All	All	4608/5308 (87%)	3377 (73%)	845 (18%)	386 (8%)	1	15

All (386) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	37	LYS
2	B	29	TYR
2	B	35	GLU
2	B	90	GLU
2	B	94	GLU

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Mol	Chain	Res	Type
2	B	112	GLN
2	B	147	SER
2	B	179	GLY
2	B	254	SER
2	B	260	GLN
2	B	267	ASN
2	B	312	PHE
2	B	354	GLY
2	B	363	THR
2	B	370	ILE
3	C	551	LYS
3	C	589	PRO
3	C	608	LYS
3	C	642	PHE
3	C	646	VAL
3	C	747	LYS
3	C	899	PRO
3	C	1143	PRO
3	C	1149	LYS
3	C	1150	LYS
3	C	1186	LEU
3	C	1243	PRO
3	C	1244	THR
3	C	1250	HIS
3	C	1254	ASP
3	C	1445	GLY
3	C	1446	TYR
4	D	157	PRO
4	D	198	CYS
4	D	201	ALA
4	D	209	MET
4	D	412	GLY
4	D	444	ASP
4	D	457	SER
4	D	577	ARG
1	E	37	LYS
2	F	35	GLU
2	F	90	GLU
2	F	94	GLU
2	F	112	GLN
2	F	147	SER
2	F	179	GLY

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Mol	Chain	Res	Type
2	F	254	SER
2	F	260	GLN
2	F	267	ASN
2	F	312	PHE
2	F	354	GLY
2	F	363	THR
3	G	551	LYS
3	G	589	PRO
3	G	608	LYS
3	G	642	PHE
3	G	646	VAL
3	G	747	LYS
3	G	760	ASN
3	G	776	MET
3	G	899	PRO
3	G	1143	PRO
3	G	1149	LYS
3	G	1150	LYS
3	G	1222	ARG
3	G	1243	PRO
3	G	1244	THR
3	G	1250	HIS
3	G	1254	ASP
3	G	1445	GLY
3	G	1446	TYR
4	H	157	PRO
4	H	198	CYS
4	H	201	ALA
4	H	209	MET
4	H	412	GLY
4	H	444	ASP
4	H	457	SER
1	A	223	PHE
1	A	411	LEU
2	B	23	PRO
2	B	84	SER
2	B	85	TYR
2	B	137	LYS
2	B	149	LEU
2	B	171	PRO
2	B	352	SER
2	B	355	LYS

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Mol	Chain	Res	Type
2	B	356	GLU
2	B	359	ARG
2	B	386	PHE
3	C	559	ALA
3	C	606	ASN
3	C	660	SER
3	C	746	TRP
3	C	760	ASN
3	C	776	MET
3	C	795	ALA
3	C	958	GLY
3	C	969	ALA
3	C	1003	THR
3	C	1011	ASN
3	C	1094	PHE
3	C	1096	ILE
3	C	1119	ILE
3	C	1132	GLN
3	C	1148	ASP
3	C	1161	ILE
3	C	1210	TYR
3	C	1219	VAL
3	C	1222	ARG
3	C	1306	SER
3	C	1345	TRP
3	C	1409	THR
4	D	167	ARG
4	D	200	GLU
4	D	280	SER
4	D	364	ILE
4	D	401	ILE
4	D	408	THR
4	D	429	VAL
4	D	475	ASP
4	D	515	GLN
4	D	541	PRO
4	D	545	ARG
4	D	547	PHE
4	D	586	ARG
1	E	52	ASP
1	E	57	TYR
1	E	196	GLN

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Mol	Chain	Res	Type
1	E	233	ILE
1	E	249	GLU
2	F	23	PRO
2	F	29	TYR
2	F	84	SER
2	F	85	TYR
2	F	137	LYS
2	F	149	LEU
2	F	171	PRO
2	F	352	SER
2	F	355	LYS
2	F	356	GLU
2	F	359	ARG
2	F	370	ILE
2	F	386	PHE
3	G	403	GLU
3	G	488	LEU
3	G	559	ALA
3	G	606	ASN
3	G	660	SER
3	G	746	TRP
3	G	766	LEU
3	G	795	ALA
3	G	864	LEU
3	G	958	GLY
3	G	969	ALA
3	G	1003	THR
3	G	1011	ASN
3	G	1026	LYS
3	G	1094	PHE
3	G	1096	ILE
3	G	1119	ILE
3	G	1132	GLN
3	G	1148	ASP
3	G	1161	ILE
3	G	1186	LEU
3	G	1210	TYR
3	G	1306	SER
3	G	1345	TRP
3	G	1409	THR
4	H	167	ARG
4	H	200	GLU

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Mol	Chain	Res	Type
4	H	257	ILE
4	H	364	ILE
4	H	401	ILE
4	H	408	THR
4	H	429	VAL
4	H	475	ASP
4	H	545	ARG
4	H	547	PHE
4	H	577	ARG
4	H	586	ARG
1	A	52	ASP
1	A	146	LEU
1	A	249	GLU
1	A	299	GLN
2	B	72	SER
2	B	173	LEU
2	B	255	HIS
2	B	263	SER
2	B	311	LEU
2	B	360	THR
2	B	442	ASN
3	C	403	GLU
3	C	479	THR
3	C	488	LEU
3	C	496	PRO
3	C	497	CYS
3	C	553	HIS
3	C	623	LEU
3	C	766	LEU
3	C	864	LEU
3	C	1002	ASP
3	C	1026	LYS
3	C	1027	SER
3	C	1036	LEU
3	C	1090	ASP
3	C	1114	LYS
3	C	1162	ASN
3	C	1185	ASN
3	C	1232	ALA
3	C	1444	SER
4	D	257	ILE
4	D	494	ARG

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Mol	Chain	Res	Type
4	D	496	SER
4	D	546	TYR
4	D	585	GLU
2	F	72	SER
2	F	173	LEU
2	F	255	HIS
2	F	263	SER
2	F	311	LEU
2	F	360	THR
2	F	442	ASN
3	G	479	THR
3	G	496	PRO
3	G	497	CYS
3	G	553	HIS
3	G	623	LEU
3	G	648	LEU
3	G	873	ASN
3	G	1027	SER
3	G	1036	LEU
3	G	1114	LYS
3	G	1162	ASN
3	G	1185	ASN
3	G	1219	VAL
3	G	1232	ALA
3	G	1444	SER
4	H	280	SER
4	H	494	ARG
4	H	515	GLN
4	H	541	PRO
4	H	546	TYR
4	H	581	ALA
4	H	585	GLU
1	A	57	TYR
1	A	252	HIS
2	B	31	GLN
2	B	102	SER
2	B	120	PHE
2	B	287	CYS
2	B	353	PHE
2	B	418	THR
2	B	439	PHE
3	C	462	PRO

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Mol	Chain	Res	Type
3	C	513	TRP
3	C	648	LEU
3	C	791	LEU
3	C	873	ASN
3	C	945	ARG
3	C	953	ALA
3	C	978	TYR
3	C	1256	GLU
3	C	1438	GLU
4	D	202	LEU
4	D	313	LYS
4	D	581	ALA
1	E	245	ALA
1	E	411	LEU
2	F	31	GLN
2	F	102	SER
2	F	287	CYS
2	F	326	PHE
2	F	439	PHE
3	G	462	PRO
3	G	728	ILE
3	G	791	LEU
3	G	945	ARG
3	G	953	ALA
3	G	1002	ASP
3	G	1090	ASP
3	G	1220	VAL
3	G	1256	GLU
3	G	1438	GLU
4	H	202	LEU
4	H	220	LEU
4	H	313	LYS
4	H	496	SER
4	H	518	MET
4	H	579	PRO
2	B	121	ILE
2	B	210	PRO
2	B	326	PHE
2	B	391	PRO
3	C	369	SER
3	C	622	PHE
3	C	743	GLU

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Mol	Chain	Res	Type
3	C	949	LEU
3	C	1115	ARG
3	C	1147	PRO
3	C	1163	SER
3	C	1220	VAL
3	C	1242	ASP
3	C	1340	LYS
3	C	1389	TYR
3	C	1450	ASN
4	D	206	TYR
4	D	219	VAL
4	D	220	LEU
4	D	226	GLU
4	D	579	PRO
1	E	67	GLU
2	F	120	PHE
2	F	181	GLU
2	F	210	PRO
2	F	261	ASP
2	F	391	PRO
3	G	513	TRP
3	G	536	PRO
3	G	622	PHE
3	G	711	LEU
3	G	743	GLU
3	G	978	TYR
3	G	1103	GLN
3	G	1115	ARG
3	G	1163	SER
3	G	1221	ALA
3	G	1242	ASP
3	G	1328	ASN
3	G	1340	LYS
3	G	1436	THR
4	H	206	TYR
4	H	226	GLU
1	A	253	ASP
1	A	275	VAL
2	B	101	ILE
3	C	728	ILE
3	C	763	PRO
3	C	902	PRO

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Mol	Chain	Res	Type
3	C	1436	THR
4	D	433	PRO
4	D	518	MET
1	E	34	GLY
2	F	49	ARG
2	F	353	PHE
2	F	369	LYS
3	G	763	PRO
3	G	949	LEU
3	G	983	ILE
3	G	1147	PRO
3	G	1389	TYR
3	G	1450	ASN
4	H	219	VAL
4	H	267	ASN
4	H	433	PRO
1	A	408	GLY
3	C	936	PRO
4	D	532	PRO
2	F	385	PRO
3	G	936	PRO
3	G	1006	ILE
3	G	1284	PRO
4	H	532	PRO
2	B	240	VAL
2	B	385	PRO
3	C	536	PRO
4	D	179	GLY
1	E	194	GLY
2	F	101	ILE
2	F	411	ILE
3	G	902	PRO
2	B	364	PRO
2	B	444	PRO
3	C	849	VAL
3	C	971	PRO
3	C	1006	ILE
2	F	121	ILE
2	F	240	VAL
2	F	364	PRO
2	F	444	PRO
3	G	971	PRO

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Mol	Chain	Res	Type
4	H	179	GLY
2	F	375	PRO
3	G	849	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	363/393 (92%)	322 (89%)	41 (11%)	7 37
1	E	363/393 (92%)	324 (89%)	39 (11%)	8 40
2	B	394/459 (86%)	326 (83%)	68 (17%)	2 17
2	F	394/459 (86%)	329 (84%)	65 (16%)	3 19
3	C	962/1013 (95%)	785 (82%)	177 (18%)	2 14
3	G	962/1013 (95%)	780 (81%)	182 (19%)	2 13
4	D	390/526 (74%)	314 (80%)	76 (20%)	2 12
4	H	390/526 (74%)	312 (80%)	78 (20%)	1 11
All	All	4218/4782 (88%)	3492 (83%)	726 (17%)	2 17

All (726) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	50	LYS
1	A	51	ASP
1	A	63	GLN
1	A	67	GLU
1	A	76	TYR
1	A	89	ASN
1	A	91	HIS
1	A	92	ASN
1	A	96	LEU
1	A	105	GLU
1	A	115	TYR
1	A	117	ASP

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Mol	Chain	Res	Type
1	A	147	LYS
1	A	149	ASP
1	A	154	HIS
1	A	167	CYS
1	A	171	ASP
1	A	173	SER
1	A	179	SER
1	A	192	VAL
1	A	210	PRO
1	A	215	SER
1	A	221	LYS
1	A	222	TYR
1	A	232	ASP
1	A	240	TRP
1	A	253	ASP
1	A	256	GLN
1	A	257	GLN
1	A	260	GLN
1	A	270	GLU
1	A	271	HIS
1	A	280	GLN
1	A	291	TRP
1	A	300	TYR
1	A	338	LYS
1	A	342	PHE
1	A	345	PHE
1	A	354	CYS
1	A	355	ARG
1	A	393	LYS
2	B	25	CYS
2	B	27	GLN
2	B	37	ILE
2	B	43	GLU
2	B	62	SER
2	B	78	LEU
2	B	85	TYR
2	B	86	ARG
2	B	89	LEU
2	B	99	ASP
2	B	105	ILE
2	B	118	ARG
2	B	121	ILE

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Mol	Chain	Res	Type
2	B	126	ASP
2	B	132	PHE
2	B	134	ILE
2	B	142	ASP
2	B	146	ASP
2	B	154	ILE
2	B	159	LYS
2	B	173	LEU
2	B	184	TYR
2	B	186	ILE
2	B	190	ASP
2	B	192	LEU
2	B	209	VAL
2	B	211	LEU
2	B	214	ILE
2	B	217	ILE
2	B	227	SER
2	B	235	ARG
2	B	241	GLN
2	B	243	ASP
2	B	247	GLN
2	B	249	LEU
2	B	256	SER
2	B	257	TYR
2	B	258	THR
2	B	260	GLN
2	B	262	TYR
2	B	264	THR
2	B	268	VAL
2	B	282	LYS
2	B	284	PHE
2	B	298	ASN
2	B	320	LEU
2	B	324	LEU
2	B	355	LYS
2	B	360	THR
2	B	361	ASP
2	B	362	TYR
2	B	364	PRO
2	B	368	LEU
2	B	382	HIS
2	B	387	ARG

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Mol	Chain	Res	Type
2	B	390	ASP
2	B	391	PRO
2	B	392	GLU
2	B	399	GLN
2	B	418	THR
2	B	427	TYR
2	B	429	GLU
2	B	440	SER
2	B	444	PRO
2	B	447	PHE
2	B	450	GLU
2	B	454	ILE
2	B	455	LEU
3	C	341	PHE
3	C	343	PHE
3	C	354	ASN
3	C	362	PHE
3	C	369	SER
3	C	375	SER
3	C	387	LEU
3	C	398	LEU
3	C	410	MET
3	C	423	THR
3	C	428	MET
3	C	430	PHE
3	C	446	VAL
3	C	457	TYR
3	C	476	VAL
3	C	479	THR
3	C	494	LYS
3	C	496	PRO
3	C	503	SER
3	C	506	LEU
3	C	507	LEU
3	C	519	MET
3	C	553	HIS
3	C	555	ASN
3	C	563	LEU
3	C	568	PHE
3	C	579	PHE
3	C	580	GLN
3	C	582	HIS

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Mol	Chain	Res	Type
3	C	584	CYS
3	C	585	VAL
3	C	586	VAL
3	C	593	ILE
3	C	606	ASN
3	C	610	GLU
3	C	619	LEU
3	C	632	ASP
3	C	635	VAL
3	C	642	PHE
3	C	647	LEU
3	C	648	LEU
3	C	654	CYS
3	C	662	ILE
3	C	667	ARG
3	C	681	GLU
3	C	682	ARG
3	C	683	ASN
3	C	701	ILE
3	C	702	ARG
3	C	703	CYS
3	C	718	THR
3	C	719	GLU
3	C	723	ILE
3	C	726	GLU
3	C	730	ASN
3	C	732	TYR
3	C	740	TYR
3	C	741	LEU
3	C	751	PHE
3	C	756	MET
3	C	759	LEU
3	C	762	LEU
3	C	764	LEU
3	C	775	ILE
3	C	780	LEU
3	C	784	ARG
3	C	785	SER
3	C	797	TYR
3	C	800	ASN
3	C	806	LYS
3	C	807	GLN

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Mol	Chain	Res	Type
3	C	808	ILE
3	C	843	LEU
3	C	861	PHE
3	C	863	SER
3	C	864	LEU
3	C	865	TYR
3	C	901	LEU
3	C	903	ASP
3	C	905	SER
3	C	915	ILE
3	C	918	LEU
3	C	935	ASN
3	C	937	ASP
3	C	939	ILE
3	C	946	GLN
3	C	954	ASN
3	C	959	CYS
3	C	972	LEU
3	C	975	LEU
3	C	977	THR
3	C	984	LEU
3	C	1005	SER
3	C	1014	ASN
3	C	1027	SER
3	C	1035	LEU
3	C	1036	LEU
3	C	1038	ILE
3	C	1041	ASP
3	C	1048	LEU
3	C	1050	LEU
3	C	1065	ASP
3	C	1068	TYR
3	C	1073	GLU
3	C	1077	LEU
3	C	1078	ASP
3	C	1083	ASP
3	C	1085	CYS
3	C	1086	ASP
3	C	1090	ASP
3	C	1095	VAL
3	C	1096	ILE
3	C	1101	SER

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Mol	Chain	Res	Type
3	C	1105	ARG
3	C	1106	ASP
3	C	1130	VAL
3	C	1139	LEU
3	C	1157	VAL
3	C	1176	SER
3	C	1185	ASN
3	C	1198	LEU
3	C	1199	GLN
3	C	1206	ILE
3	C	1222	ARG
3	C	1231	ASP
3	C	1242	ASP
3	C	1247	ARG
3	C	1249	HIS
3	C	1251	TYR
3	C	1252	HIS
3	C	1257	ASN
3	C	1266	GLN
3	C	1268	THR
3	C	1271	GLU
3	C	1278	ARG
3	C	1288	THR
3	C	1290	ASN
3	C	1291	ILE
3	C	1302	ASP
3	C	1309	ARG
3	C	1310	CYS
3	C	1311	SER
3	C	1316	LYS
3	C	1318	SER
3	C	1320	LEU
3	C	1327	SER
3	C	1328	ASN
3	C	1332	MET
3	C	1345	TRP
3	C	1354	ARG
3	C	1362	LEU
3	C	1364	PHE
3	C	1369	PRO
3	C	1372	PRO
3	C	1374	CYS

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Mol	Chain	Res	Type
3	C	1381	PRO
3	C	1384	SER
3	C	1389	TYR
3	C	1393	CYS
3	C	1397	TYR
3	C	1398	ILE
3	C	1403	CYS
3	C	1406	GLU
3	C	1408	LEU
3	C	1410	THR
3	C	1411	ASP
3	C	1415	ASP
3	C	1416	LYS
3	C	1419	LYS
3	C	1420	GLN
3	C	1422	PHE
3	C	1423	THR
3	C	1424	PRO
3	C	1434	LYS
3	C	1440	PHE
3	C	1441	LEU
3	C	1446	TYR
4	D	157	PRO
4	D	158	SER
4	D	164	ARG
4	D	166	ASN
4	D	178	GLN
4	D	185	ARG
4	D	193	LEU
4	D	198	CYS
4	D	202	LEU
4	D	206	TYR
4	D	210	PHE
4	D	212	LYS
4	D	224	ILE
4	D	227	LEU
4	D	236	LYS
4	D	251	VAL
4	D	254	LEU
4	D	256	GLN
4	D	261	SER
4	D	266	ASN

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Mol	Chain	Res	Type
4	D	271	ILE
4	D	279	SER
4	D	290	GLU
4	D	292	LYS
4	D	302	VAL
4	D	305	GLU
4	D	307	ILE
4	D	312	ARG
4	D	315	VAL
4	D	319	LEU
4	D	329	GLN
4	D	333	GLU
4	D	341	MET
4	D	342	VAL
4	D	344	VAL
4	D	346	CYS
4	D	348	PRO
4	D	351	THR
4	D	373	ASP
4	D	390	GLU
4	D	400	ASP
4	D	411	GLU
4	D	414	ARG
4	D	421	VAL
4	D	435	TYR
4	D	440	PHE
4	D	444	ASP
4	D	447	ARG
4	D	450	LYS
4	D	454	GLN
4	D	456	VAL
4	D	476	LEU
4	D	477	LEU
4	D	480	LEU
4	D	491	THR
4	D	492	SER
4	D	496	SER
4	D	498	ILE
4	D	510	PRO
4	D	511	LEU
4	D	513	PRO
4	D	518	MET

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Mol	Chain	Res	Type
4	D	526	TYR
4	D	527	VAL
4	D	538	LEU
4	D	540	ILE
4	D	541	PRO
4	D	542	SER
4	D	546	TYR
4	D	552	LEU
4	D	561	ARG
4	D	571	PHE
4	D	574	LEU
4	D	575	TYR
4	D	582	ASP
4	D	586	ARG
1	E	2	GLU
1	E	5	ASP
1	E	38	ASN
1	E	39	TYR
1	E	41	GLN
1	E	50	LYS
1	E	51	ASP
1	E	55	ILE
1	E	57	TYR
1	E	65	ASP
1	E	89	ASN
1	E	94	VAL
1	E	105	GLU
1	E	108	PHE
1	E	110	ILE
1	E	122	CYS
1	E	167	CYS
1	E	186	VAL
1	E	191	LEU
1	E	196	GLN
1	E	203	HIS
1	E	221	LYS
1	E	222	TYR
1	E	238	GLU
1	E	249	GLU
1	E	253	ASP
1	E	256	GLN
1	E	270	GLU

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Mol	Chain	Res	Type
1	E	280	GLN
1	E	283	ILE
1	E	291	TRP
1	E	313	ILE
1	E	354	CYS
1	E	355	ARG
1	E	379	ARG
1	E	393	LYS
1	E	399	LEU
1	E	402	LEU
1	E	412	LYS
2	F	26	LEU
2	F	27	GLN
2	F	33	PRO
2	F	37	ILE
2	F	57	GLU
2	F	76	SER
2	F	78	LEU
2	F	84	SER
2	F	85	TYR
2	F	86	ARG
2	F	91	ASP
2	F	98	ARG
2	F	99	ASP
2	F	111	CYS
2	F	113	SER
2	F	118	ARG
2	F	122	GLN
2	F	124	GLU
2	F	126	ASP
2	F	132	PHE
2	F	138	ASP
2	F	142	ASP
2	F	151	PHE
2	F	154	ILE
2	F	155	SER
2	F	159	LYS
2	F	172	SER
2	F	181	GLU
2	F	184	TYR
2	F	190	ASP
2	F	214	ILE

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Mol	Chain	Res	Type
2	F	217	ILE
2	F	221	GLU
2	F	235	ARG
2	F	241	GLN
2	F	247	GLN
2	F	257	TYR
2	F	262	TYR
2	F	264	THR
2	F	268	VAL
2	F	274	ASP
2	F	279	LEU
2	F	280	SER
2	F	283	SER
2	F	301	LEU
2	F	319	THR
2	F	325	GLN
2	F	329	GLN
2	F	355	LYS
2	F	360	THR
2	F	362	TYR
2	F	364	PRO
2	F	368	LEU
2	F	382	HIS
2	F	384	CYS
2	F	390	ASP
2	F	403	ILE
2	F	404	SER
2	F	405	PRO
2	F	412	LEU
2	F	413	ASP
2	F	427	TYR
2	F	444	PRO
2	F	450	GLU
2	F	454	ILE
3	G	339	GLN
3	G	341	PHE
3	G	368	GLU
3	G	372	THR
3	G	374	VAL
3	G	375	SER
3	G	402	LYS
3	G	410	MET

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Mol	Chain	Res	Type
3	G	411	LYS
3	G	428	MET
3	G	430	PHE
3	G	468	LEU
3	G	473	PHE
3	G	486	LEU
3	G	492	LYS
3	G	494	LYS
3	G	496	PRO
3	G	500	GLU
3	G	507	LEU
3	G	510	PRO
3	G	523	PRO
3	G	543	SER
3	G	548	GLN
3	G	555	ASN
3	G	558	ILE
3	G	563	LEU
3	G	568	PHE
3	G	579	PHE
3	G	583	PHE
3	G	584	CYS
3	G	586	VAL
3	G	591	ASP
3	G	594	PHE
3	G	603	GLU
3	G	606	ASN
3	G	610	GLU
3	G	616	ARG
3	G	619	LEU
3	G	635	VAL
3	G	642	PHE
3	G	650	ARG
3	G	653	VAL
3	G	662	ILE
3	G	668	SER
3	G	669	ASN
3	G	681	GLU
3	G	682	ARG
3	G	683	ASN
3	G	685	THR
3	G	701	ILE

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Mol	Chain	Res	Type
3	G	703	CYS
3	G	704	LYS
3	G	718	THR
3	G	723	ILE
3	G	732	TYR
3	G	738	LEU
3	G	745	THR
3	G	754	GLN
3	G	760	ASN
3	G	762	LEU
3	G	764	LEU
3	G	770	ASN
3	G	776	MET
3	G	779	THR
3	G	780	LEU
3	G	784	ARG
3	G	786	GLU
3	G	791	LEU
3	G	800	ASN
3	G	806	LYS
3	G	843	LEU
3	G	853	ASP
3	G	857	LEU
3	G	861	PHE
3	G	864	LEU
3	G	865	TYR
3	G	868	ILE
3	G	875	CYS
3	G	903	ASP
3	G	918	LEU
3	G	932	GLN
3	G	935	ASN
3	G	937	ASP
3	G	938	LEU
3	G	939	ILE
3	G	941	GLN
3	G	943	ASP
3	G	946	GLN
3	G	951	LEU
3	G	952	THR
3	G	956	MET
3	G	959	CYS

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Mol	Chain	Res	Type
3	G	975	LEU
3	G	984	LEU
3	G	1010	THR
3	G	1014	ASN
3	G	1024	LYS
3	G	1036	LEU
3	G	1039	ASP
3	G	1041	ASP
3	G	1049	LEU
3	G	1050	LEU
3	G	1055	TYR
3	G	1060	VAL
3	G	1068	TYR
3	G	1077	LEU
3	G	1078	ASP
3	G	1083	ASP
3	G	1084	TRP
3	G	1085	CYS
3	G	1087	LEU
3	G	1093	ASN
3	G	1096	ILE
3	G	1099	ILE
3	G	1102	ASP
3	G	1105	ARG
3	G	1106	ASP
3	G	1118	GLU
3	G	1130	VAL
3	G	1139	LEU
3	G	1144	GLN
3	G	1181	GLN
3	G	1182	ASP
3	G	1185	ASN
3	G	1186	LEU
3	G	1187	THR
3	G	1189	SER
3	G	1198	LEU
3	G	1199	GLN
3	G	1202	ASP
3	G	1203	ASN
3	G	1206	ILE
3	G	1214	GLN
3	G	1219	VAL

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Mol	Chain	Res	Type
3	G	1228	ASP
3	G	1242	ASP
3	G	1244	THR
3	G	1251	TYR
3	G	1257	ASN
3	G	1258	ASP
3	G	1266	GLN
3	G	1268	THR
3	G	1282	PRO
3	G	1286	CYS
3	G	1290	ASN
3	G	1297	ASP
3	G	1309	ARG
3	G	1313	ILE
3	G	1316	LYS
3	G	1318	SER
3	G	1326	LEU
3	G	1327	SER
3	G	1330	LEU
3	G	1331	ILE
3	G	1332	MET
3	G	1340	LYS
3	G	1347	ILE
3	G	1354	ARG
3	G	1355	ASN
3	G	1357	THR
3	G	1358	ARG
3	G	1360	LEU
3	G	1364	PHE
3	G	1366	ARG
3	G	1367	THR
3	G	1372	PRO
3	G	1374	CYS
3	G	1376	LYS
3	G	1379	LEU
3	G	1386	LYS
3	G	1397	TYR
3	G	1398	ILE
3	G	1409	THR
3	G	1410	THR
3	G	1411	ASP
3	G	1419	LYS

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Mol	Chain	Res	Type
3	G	1422	PHE
3	G	1427	LEU
3	G	1431	ARG
3	G	1441	LEU
3	G	1443	ARG
3	G	1446	TYR
4	H	157	PRO
4	H	158	SER
4	H	164	ARG
4	H	166	ASN
4	H	171	VAL
4	H	173	SER
4	H	174	PHE
4	H	178	GLN
4	H	185	ARG
4	H	193	LEU
4	H	198	CYS
4	H	202	LEU
4	H	203	THR
4	H	206	TYR
4	H	209	MET
4	H	210	PHE
4	H	230	GLU
4	H	244	LEU
4	H	249	GLU
4	H	253	LEU
4	H	259	CYS
4	H	261	SER
4	H	266	ASN
4	H	268	LYS
4	H	271	ILE
4	H	279	SER
4	H	283	GLN
4	H	286	VAL
4	H	290	GLU
4	H	292	LYS
4	H	294	TYR
4	H	304	MET
4	H	310	THR
4	H	319	LEU
4	H	341	MET
4	H	342	VAL

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Mol	Chain	Res	Type
4	H	351	THR
4	H	355	ILE
4	H	367	ILE
4	H	369	HIS
4	H	373	ASP
4	H	376	ILE
4	H	378	PHE
4	H	382	LEU
4	H	387	GLU
4	H	403	LYS
4	H	419	HIS
4	H	423	VAL
4	H	429	VAL
4	H	435	TYR
4	H	440	PHE
4	H	441	SER
4	H	447	ARG
4	H	456	VAL
4	H	458	GLU
4	H	461	SER
4	H	472	THR
4	H	474	THR
4	H	475	ASP
4	H	477	LEU
4	H	496	SER
4	H	511	LEU
4	H	515	GLN
4	H	518	MET
4	H	522	TYR
4	H	527	VAL
4	H	531	LEU
4	H	538	LEU
4	H	540	ILE
4	H	546	TYR
4	H	549	LYS
4	H	562	LEU
4	H	570	THR
4	H	571	PHE
4	H	576	LEU
4	H	582	ASP
4	H	586	ARG
4	H	591	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (180) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	58	GLN
1	A	74	ASN
1	A	89	ASN
1	A	90	GLN
1	A	154	HIS
1	A	236	ASN
1	A	257	GLN
1	A	260	GLN
1	A	267	GLN
1	A	324	HIS
1	A	337	GLN
1	A	401	ASN
2	B	24	HIS
2	B	27	GLN
2	B	31	GLN
2	B	71	GLN
2	B	112	GLN
2	B	122	GLN
2	B	141	GLN
2	B	150	GLN
2	B	164	GLN
2	B	252	HIS
2	B	255	HIS
2	B	260	GLN
2	B	290	GLN
2	B	298	ASN
2	B	329	GLN
2	B	374	ASN
2	B	378	GLN
2	B	399	GLN
2	B	425	GLN
2	B	443	HIS
2	B	445	ASN
2	B	452	GLN
3	C	354	ASN
3	C	382	ASN
3	C	475	HIS
3	C	555	ASN
3	C	566	HIS
3	C	606	ASN
3	C	627	HIS

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Mol	Chain	Res	Type
3	C	649	GLN
3	C	652	ASN
3	C	669	ASN
3	C	683	ASN
3	C	714	GLN
3	C	729	GLN
3	C	730	ASN
3	C	744	HIS
3	C	760	ASN
3	C	770	ASN
3	C	800	ASN
3	C	862	ASN
3	C	870	GLN
3	C	927	GLN
3	C	931	GLN
3	C	932	GLN
3	C	935	ASN
3	C	941	GLN
3	C	946	GLN
3	C	954	ASN
3	C	1011	ASN
3	C	1014	ASN
3	C	1023	ASN
3	C	1098	GLN
3	C	1111	ASN
3	C	1122	ASN
3	C	1154	HIS
3	C	1181	GLN
3	C	1190	GLN
3	C	1197	GLN
3	C	1201	GLN
3	C	1214	GLN
3	C	1250	HIS
3	C	1257	ASN
3	C	1266	GLN
3	C	1290	ASN
3	C	1294	ASN
3	C	1312	ASN
3	C	1328	ASN
3	C	1359	HIS
3	C	1380	GLN
3	C	1435	ASN

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Mol	Chain	Res	Type
4	D	166	ASN
4	D	178	GLN
4	D	248	GLN
4	D	256	GLN
4	D	283	GLN
4	D	339	GLN
4	D	386	HIS
4	D	388	GLN
4	D	419	HIS
4	D	437	GLN
4	D	452	GLN
4	D	515	GLN
4	D	587	GLN
4	D	594	GLN
1	E	25	GLN
1	E	38	ASN
1	E	41	GLN
1	E	42	HIS
1	E	58	GLN
1	E	86	HIS
1	E	89	ASN
1	E	217	ASN
1	E	236	ASN
1	E	260	GLN
1	E	267	GLN
1	E	280	GLN
1	E	337	GLN
1	E	341	GLN
1	E	401	ASN
2	F	27	GLN
2	F	31	GLN
2	F	58	ASN
2	F	71	GLN
2	F	112	GLN
2	F	123	GLN
2	F	150	GLN
2	F	164	GLN
2	F	241	GLN
2	F	247	GLN
2	F	252	HIS
2	F	255	HIS
2	F	260	GLN

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Mol	Chain	Res	Type
2	F	267	ASN
2	F	275	GLN
2	F	298	ASN
2	F	329	GLN
2	F	374	ASN
2	F	399	GLN
2	F	421	GLN
2	F	443	HIS
2	F	445	ASN
3	G	354	ASN
3	G	373	HIS
3	G	490	ASN
3	G	548	GLN
3	G	552	ASN
3	G	554	GLN
3	G	555	ASN
3	G	566	HIS
3	G	637	HIS
3	G	652	ASN
3	G	669	ASN
3	G	683	ASN
3	G	730	ASN
3	G	770	ASN
3	G	788	ASN
3	G	800	ASN
3	G	862	ASN
3	G	870	GLN
3	G	873	ASN
3	G	931	GLN
3	G	932	GLN
3	G	935	ASN
3	G	946	GLN
3	G	1011	ASN
3	G	1014	ASN
3	G	1181	GLN
3	G	1199	GLN
3	G	1214	GLN
3	G	1250	HIS
3	G	1257	ASN
3	G	1266	GLN
3	G	1359	HIS
3	G	1420	GLN

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Mol	Chain	Res	Type
3	G	1435	ASN
4	H	166	ASN
4	H	178	GLN
4	H	248	GLN
4	H	283	GLN
4	H	339	GLN
4	H	368	ASN
4	H	386	HIS
4	H	437	GLN
4	H	465	ASN
4	H	515	GLN
4	H	530	GLN
4	H	587	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

5.6 Ligand geometry (i)

Of 8 ligands modelled in this entry, 6 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
6	SF4	B	601	2	0,12,12	0.00	-	0,24,24	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
6	SF4	F	601	2	0,12,12	0.00	-	0,24,24	0.00	-

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	SF4	B	601	2	-	0/0/48/48	0/6/5/5
6	SF4	F	601	2	-	0/0/48/48	0/6/5/5

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	601	SF4	3	0

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data (i)

6.1 Protein, DNA and RNA chains (i)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	389/420 (92%)	-0.09	12 (3%) 52 38	39, 101, 121, 137	0
1	E	389/420 (92%)	-0.40	1 (0%) 94 90	45, 98, 115, 136	0
2	B	434/509 (85%)	-0.73	1 (0%) 95 92	5, 61, 112, 135	0
2	F	434/509 (85%)	-0.66	0 100 100	4, 64, 115, 135	0
3	C	1057/1128 (93%)	-0.75	0 100 100	1, 51, 93, 123	0
3	G	1057/1128 (93%)	-0.73	0 100 100	2, 54, 96, 116	0
4	D	444/597 (74%)	-0.71	0 100 100	1, 44, 94, 111	0
4	H	444/597 (74%)	-0.69	1 (0%) 95 92	2, 47, 94, 121	0
All	All	4648/5308 (87%)	-0.64	15 (0%) 94 90	1, 60, 109, 137	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	125	ALA	3.6
1	A	360	ILE	2.9
1	A	272	LEU	2.9
1	A	245	ALA	2.7
1	A	215	SER	2.7
1	A	335	ASP	2.7
1	A	246	LEU	2.6
1	A	10	PRO	2.6
1	A	325	PRO	2.5
1	A	380	THR	2.4
1	E	404	LYS	2.4
4	H	155	ALA	2.4
1	A	250	THR	2.3
2	B	172	SER	2.1
1	A	52	ASP	2.1

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 carbohydrates in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
5	ZN	G	1501	1/1	0.95	0.16	0.20	78,78,78,78	0
6	SF4	B	601	8/8	0.98	0.18	-0.24	1,1,2,9	0
5	ZN	C	1501	1/1	0.99	0.14	-0.31	46,46,46,46	0
6	SF4	F	601	8/8	0.97	0.18	-0.42	1,1,8,18	0
5	ZN	E	501	1/1	0.94	0.10	-0.98	91,91,91,91	0
5	ZN	C	1502	1/1	0.98	0.15	-1.33	26,26,26,26	0
5	ZN	G	1502	1/1	0.99	0.12	-2.13	1,1,1,1	0
5	ZN	A	501	1/1	0.91	0.04	-2.48	123,123,123,123	0

6.5 Other polymers (i)

There are no such residues in this entry.