



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 02:04 AM UTC

PDB ID : 3CF1 / pdb_00003cf1
Title : Structure of P97/vcp in complex with ADP/ADP.alfx
Authors : Davies, J.M.; Delabarre, B.; Brunger, A.T.; Weis, W.I.
Deposited on : 2008-03-01
Resolution : 4.40 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

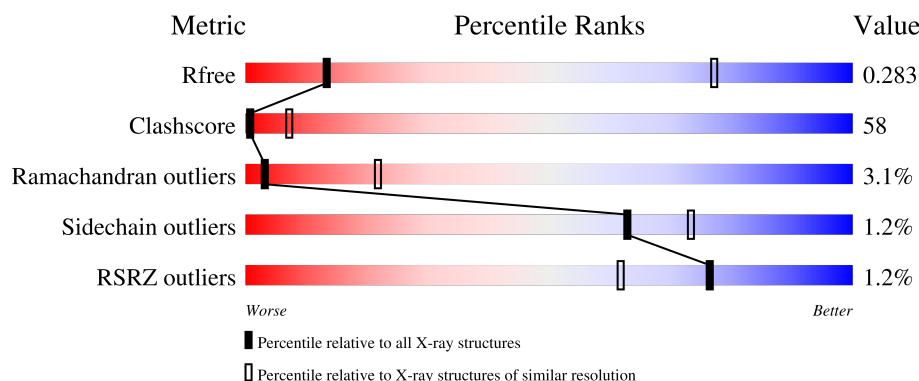
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.40 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}	180053	1088 (4.90-3.90)
Clashscore	190562	1135 (4.90-3.90)
Ramachandran outliers	187476	1026 (4.90-3.90)
Sidechain outliers	187428	1010 (4.90-3.90)
RSRZ outliers	180081	1084 (4.90-3.90)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	806	% 28% 57% • 11%
1	B	806	% 29% 55% 5% 10%
1	C	806	% 27% 57% 5% 10%

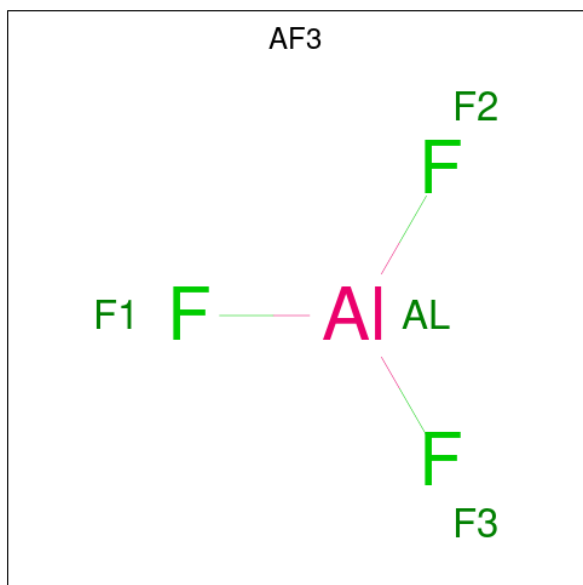
The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	AF3	A	915	-	-	X	-
3	AF3	B	915	-	-	X	-
3	AF3	C	915	-	-	X	-

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	B	1	Total 27	C 10	N 5	O 10	P 2	0	0
2	C	1	Total 27	C 10	N 5	O 10	P 2	0	0
2	C	1	Total 27	C 10	N 5	O 10	P 2	0	0

- Molecule 3 is ALUMINUM FLUORIDE (CCD ID: AF3) (formula: AlF_3).

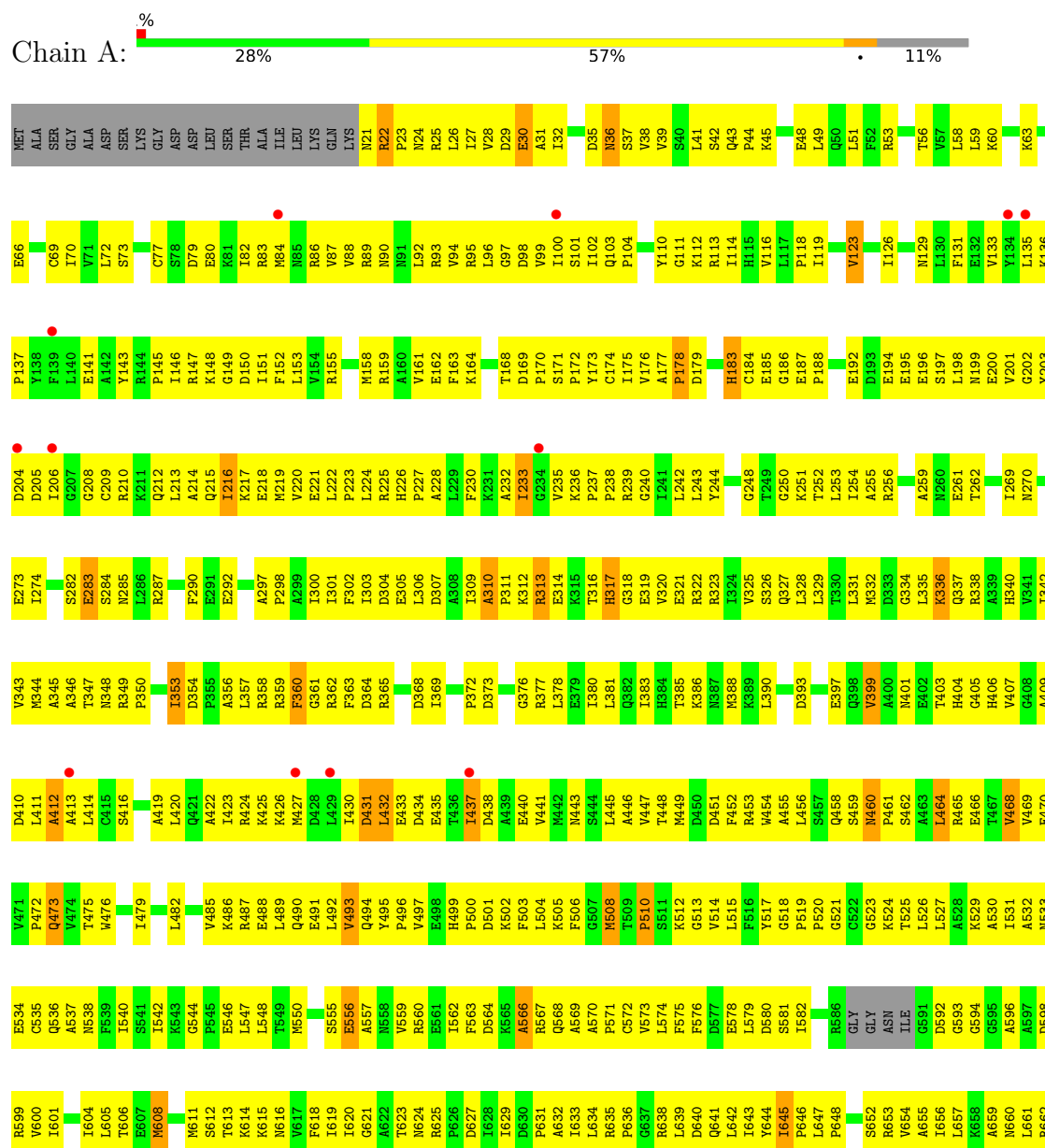


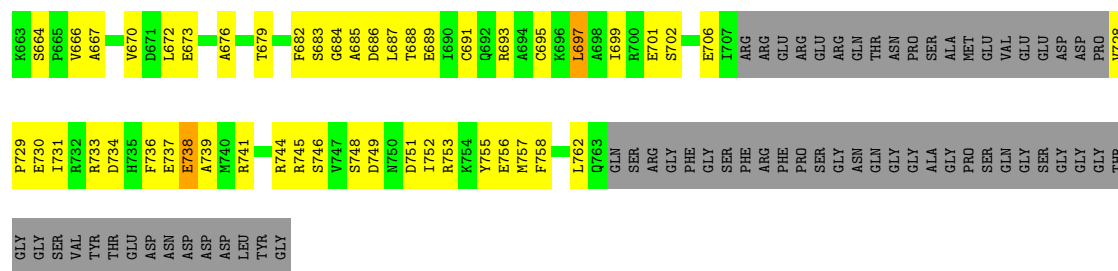
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total 4	Al 1	F 3	0	0
3	B	1	Total 4	Al 1	F 3	0	0
3	C	1	Total 4	Al 1	F 3	0	0

3 Residue-property plots

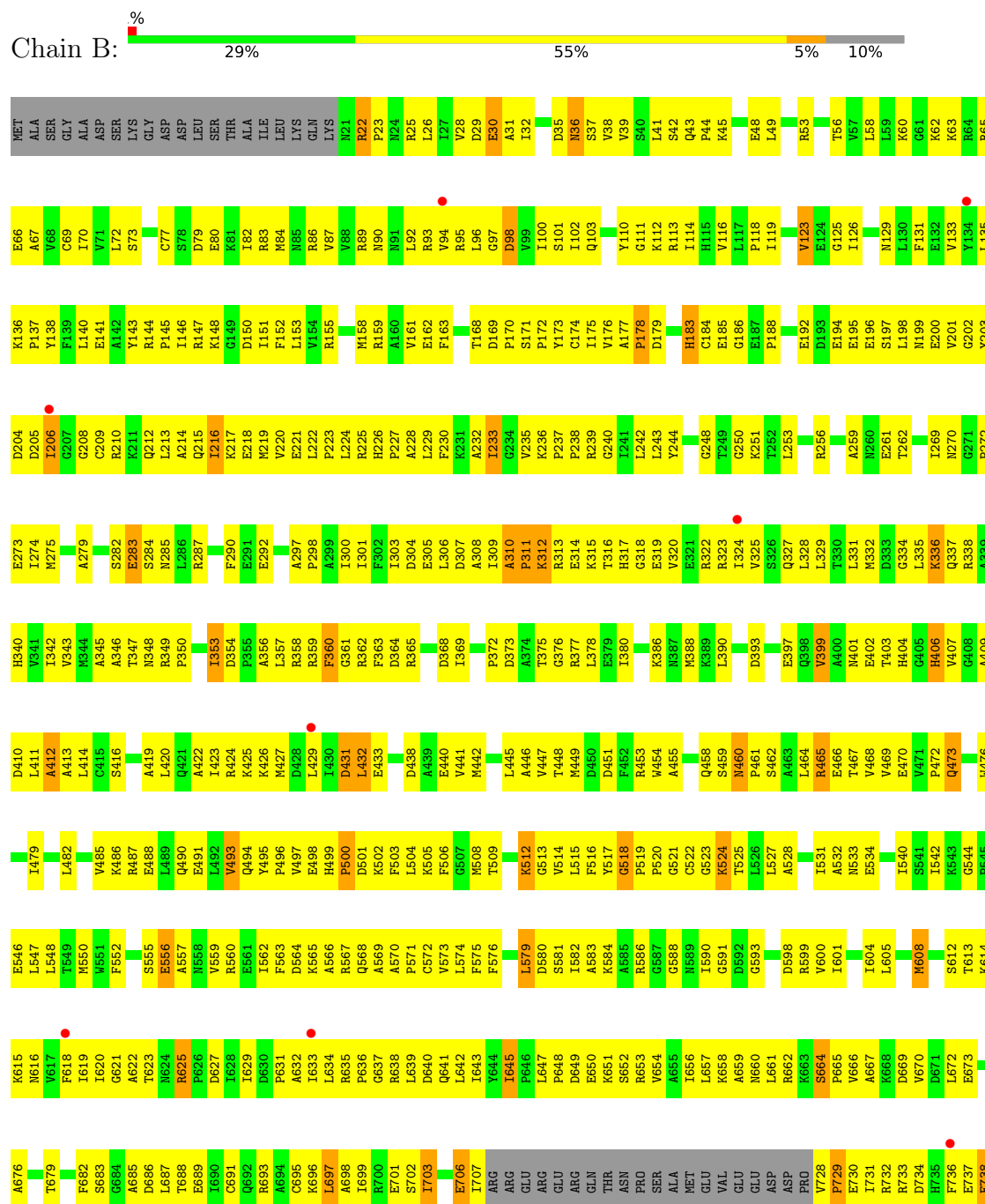
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: Transitional endoplasmic reticulum ATPase





• Molecule 1: Transitional endoplasmic reticulum ATPase





GLY
SER
VAL
TYR
THR
GLU
ASP
ASN
ASP
ASP
ASP
LEU
TYR
GLY

4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	162.66Å 178.02Å 321.14Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.87 – 4.40 29.87 – 4.40	Depositor EDS
% Data completeness (in resolution range)	82.2 (29.87-4.40) 81.9 (29.87-4.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.04 (at 4.45Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.229 , 0.286 0.233 , 0.283	Depositor DCC
R_{free} test set	1874 reflections (6.67%)	wwPDB-VP
Wilson B-factor (Å ²)	176.9	Xtriage
Anisotropy	0.325	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 286.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	17126	wwPDB-VP
Average B, all atoms (Å ²)	272.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.36% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: AF3, ADP

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	0/5724	0.96	23/7727 (0.3%)
1	B	0.53	2/5751 (0.0%)	0.96	26/7767 (0.3%)
1	C	0.52	0/5751	0.94	20/7767 (0.3%)
All	All	0.52	2/17226 (0.0%)	0.95	69/23261 (0.3%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	308	ALA	CA-CB	-7.62	1.40	1.53
1	B	625	ARG	CD-NE	-7.27	1.36	1.46

All (69) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	431	ASP	N-CA-C	14.77	132.75	109.86
1	B	706	GLU	N-CA-C	12.16	126.92	111.24
1	C	433	GLU	N-CA-C	9.77	125.16	112.26
1	A	430	ILE	N-CA-C	8.86	119.69	111.45
1	A	63	LYS	N-CA-C	-8.71	102.21	112.92
1	A	337	GLN	N-CA-C	-8.53	97.66	110.28
1	B	337	GLN	N-CA-C	-8.50	97.70	110.28
1	C	337	GLN	N-CA-C	-8.50	97.70	110.28
1	C	465	ARG	N-CA-C	-8.46	99.36	112.99
1	B	431	ASP	N-CA-C	8.43	128.76	110.80
1	C	432	LEU	N-CA-C	-8.27	102.76	113.17
1	C	596	ALA	N-CA-C	7.75	120.71	111.33
1	B	406	HIS	N-CA-C	7.18	120.63	110.50
1	A	317	HIS	N-CA-C	-6.98	104.84	113.15
1	B	645	ILE	CA-C-N	6.78	128.32	119.84
1	B	645	ILE	C-N-CA	6.78	128.32	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	336	LYS	N-CA-C	-6.73	104.95	113.02
1	C	336	LYS	N-CA-C	-6.65	105.04	113.02
1	B	336	LYS	N-CA-C	-6.63	105.06	113.02
1	A	493	VAL	N-CA-C	6.44	117.09	111.56
1	B	503	PHE	N-CA-C	-6.37	104.99	112.89
1	B	493	VAL	N-CA-C	6.27	116.95	111.56
1	B	703	ILE	N-CA-C	6.22	116.39	110.42
1	C	608	MET	N-CA-C	-6.20	106.25	113.88
1	B	312	LYS	N-CA-C	-6.17	106.01	112.93
1	A	430	ILE	CB-CA-C	-6.11	103.91	111.92
1	A	566	ALA	N-CA-C	-6.10	104.91	112.90
1	B	664	SER	CA-C-N	6.09	127.46	119.84
1	B	664	SER	C-N-CA	6.09	127.46	119.84
1	B	465	ARG	N-CA-C	-6.09	103.22	110.41
1	B	608	MET	N-CA-C	-6.08	106.40	113.88
1	B	512	LYS	N-CA-C	6.06	117.97	111.36
1	A	608	MET	N-CA-C	-6.02	106.47	113.88
1	A	596	ALA	N-CA-C	6.01	117.52	110.97
1	C	697	LEU	N-CA-C	-5.91	106.71	114.04
1	B	697	LEU	N-CA-C	-5.88	106.75	114.04
1	A	349	ARG	N-CA-C	5.84	113.48	108.22
1	C	349	ARG	N-CA-C	5.83	113.46	108.22
1	A	697	LEU	N-CA-C	-5.81	106.83	114.04
1	B	349	ARG	N-CA-C	5.76	113.40	108.22
1	C	312	LYS	N-CA-C	-5.74	106.32	113.15
1	C	566	ALA	N-CA-C	-5.71	106.86	113.88
1	A	319	GLU	N-CA-C	5.64	118.52	111.24
1	B	404	HIS	N-CA-C	5.61	117.20	111.14
1	B	518	GLY	CA-C-N	5.61	126.15	120.38
1	B	518	GLY	C-N-CA	5.61	126.15	120.38
1	A	404	HIS	N-CA-C	5.54	117.12	111.14
1	C	468	VAL	N-CA-C	5.46	115.75	108.27
1	B	433	GLU	N-CA-C	5.42	119.90	113.28
1	C	404	HIS	N-CA-C	5.42	117.00	111.14
1	A	468	VAL	N-CA-C	5.41	115.91	108.12
1	C	497	VAL	CB-CA-C	-5.35	105.01	112.02
1	C	493	VAL	N-CA-C	5.30	116.12	111.56
1	A	464	LEU	N-CA-C	5.30	117.13	109.07
1	C	645	ILE	CA-C-N	5.30	125.50	120.31
1	C	645	ILE	C-N-CA	5.30	125.50	120.31
1	A	645	ILE	CA-C-N	5.25	126.40	119.84
1	A	645	ILE	C-N-CA	5.25	126.40	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	216	ILE	N-CA-C	5.19	115.40	110.42
1	B	732	ARG	N-CA-C	5.14	117.09	109.69
1	B	206	ILE	CA-C-N	-5.13	118.64	122.18
1	B	206	ILE	C-N-CA	-5.13	118.64	122.18
1	A	216	ILE	N-CA-C	5.13	115.34	110.42
1	A	99	VAL	N-CA-C	5.05	115.59	108.36
1	C	518	GLY	CA-C-N	5.04	125.57	120.38
1	C	518	GLY	C-N-CA	5.04	125.57	120.38
1	A	187	GLU	CA-C-N	5.01	126.10	119.84
1	A	187	GLU	C-N-CA	5.01	126.10	119.84
1	B	216	ILE	N-CA-C	5.00	115.22	110.42

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5634	0	5705	697	0
1	B	5659	0	5731	696	0
1	C	5659	0	5731	671	0
2	A	54	0	24	8	0
2	B	54	0	24	14	0
2	C	54	0	24	11	0
3	A	4	0	0	2	0
3	B	4	0	0	9	0
3	C	4	0	0	2	0
All	All	17126	0	17239	1999	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 58.

All (1999) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:427:MET:HG3	1:A:431:ASP:CB	1.69	1.22
1:A:464:LEU:HD11	1:A:466:GLU:HB2	1.22	1.17
1:A:203:TYR:O	1:A:206:ILE:HG12	1.49	1.13
1:A:427:MET:HG3	1:A:431:ASP:HB2	1.20	1.09
1:A:427:MET:HE3	1:A:441:VAL:HG11	1.33	1.09
1:C:427:MET:HE3	1:C:441:VAL:HG11	1.32	1.09
1:A:66:GLU:HB2	1:A:147:ARG:NH1	1.68	1.09
1:B:427:MET:HE3	1:B:441:VAL:HG11	1.35	1.09
1:B:323:ARG:HH22	1:C:279:ALA:HB2	1.19	1.08
1:A:615:LYS:HG3	1:A:616:ASN:H	1.18	1.07
1:B:427:MET:HE2	1:B:432:LEU:HB2	1.35	1.07
1:B:229:LEU:HD13	1:C:433:GLU:OE2	1.55	1.07
1:B:22:ARG:HG3	1:B:25:ARG:HH12	1.12	1.06
1:B:60:LYS:O	1:B:100:ILE:HG23	1.54	1.06
1:B:615:LYS:HG3	1:B:616:ASN:H	1.15	1.06
1:B:491:GLU:HA	1:B:495:TYR:CE2	1.91	1.05
1:C:615:LYS:HG3	1:C:616:ASN:H	1.16	1.05
1:A:427:MET:CG	1:A:431:ASP:HB2	1.86	1.04
1:C:89:ARG:NE	1:C:96:LEU:HD21	1.72	1.04
1:B:26:LEU:HD11	1:B:45:LYS:HE2	1.36	1.03
1:A:21:ASN:HB2	1:A:25:ARG:NH2	1.72	1.03
1:B:427:MET:HG3	1:B:432:LEU:HD13	1.41	1.03
1:B:232:ALA:HB2	1:C:125:GLY:HA3	1.41	1.02
1:C:464:LEU:HD11	1:C:466:GLU:HB3	1.40	1.01
1:A:169:ASP:HB3	1:A:170:PRO:HD3	1.42	1.01
1:B:169:ASP:HB3	1:B:170:PRO:HD3	1.44	1.00
1:A:397:GLU:HG2	1:A:401:ASN:HD21	1.24	1.00
1:B:397:GLU:HG2	1:B:401:ASN:HD21	1.23	0.99
1:B:93:ARG:HH21	1:B:194:GLU:HG3	1.25	0.98
1:A:526:LEU:HD11	2:A:900:ADP:H2'	1.45	0.98
1:C:524:LYS:HD3	1:C:622:ALA:HB1	1.44	0.98
1:C:397:GLU:HG2	1:C:401:ASN:HD21	1.22	0.98
1:C:93:ARG:HH21	1:C:194:GLU:HG3	1.24	0.97
1:C:169:ASP:HB3	1:C:170:PRO:HD3	1.45	0.97
1:A:472:PRO:HG2	1:A:532:ALA:HB3	1.44	0.97
1:A:206:ILE:CD1	1:A:213:LEU:HD21	1.95	0.96
1:A:93:ARG:HH21	1:A:194:GLU:HG3	1.25	0.96
1:C:111:GLY:HA2	1:C:170:PRO:HG2	1.47	0.96
1:A:111:GLY:HA2	1:A:170:PRO:HG2	1.48	0.95
1:C:206:ILE:CD1	1:C:213:LEU:HD21	1.97	0.95
1:A:100:ILE:HG22	1:A:101:SER:H	1.29	0.95
1:C:567:ARG:HG3	1:C:615:LYS:HE2	1.46	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:ILE:CD1	1:B:213:LEU:HD21	1.98	0.94
1:A:94:VAL:HG21	1:A:100:ILE:HD11	1.48	0.93
1:B:203:TYR:O	1:B:206:ILE:HG12	1.68	0.93
1:C:100:ILE:HG22	1:C:101:SER:H	1.31	0.93
1:B:111:GLY:HA2	1:B:170:PRO:HG2	1.50	0.93
1:C:491:GLU:HA	1:C:495:TYR:CD2	2.04	0.93
1:C:636:PRO:HA	1:C:640:ASP:HB3	1.51	0.93
1:C:94:VAL:HG21	1:C:100:ILE:HD11	1.50	0.93
1:A:224:LEU:HD21	1:A:300:ILE:HD11	1.51	0.92
1:B:464:LEU:HD11	1:B:466:GLU:HB2	1.49	0.92
1:A:427:MET:HE1	1:A:437:ILE:HD12	1.52	0.92
1:A:627:ASP:HB3	1:A:758:PHE:CZ	2.05	0.92
1:B:636:PRO:HA	1:B:640:ASP:HB3	1.52	0.91
1:B:100:ILE:HG22	1:B:101:SER:H	1.32	0.91
1:A:445:LEU:HD23	1:A:446:ALA:N	1.86	0.91
1:A:636:PRO:HA	1:A:640:ASP:HB3	1.53	0.91
1:C:206:ILE:HD11	1:C:213:LEU:HD11	1.52	0.91
1:B:94:VAL:HG21	1:B:100:ILE:HD11	1.52	0.91
1:B:657:LEU:HD13	1:B:672:LEU:HD22	1.52	0.91
1:C:647:LEU:HB3	1:C:648:PRO:HD2	1.51	0.91
1:C:445:LEU:HD23	1:C:446:ALA:N	1.86	0.90
1:A:206:ILE:HD11	1:A:213:LEU:HD11	1.53	0.89
1:B:445:LEU:HD23	1:B:446:ALA:N	1.87	0.89
1:C:435:GLU:HG3	1:C:436:THR:H	1.36	0.89
1:A:464:LEU:HD11	1:A:466:GLU:CB	2.03	0.89
1:B:136:LYS:HB3	1:B:137:PRO:HD3	1.54	0.89
1:C:209:CYS:HB3	1:C:212:GLN:HB2	1.55	0.89
1:B:472:PRO:HG2	1:B:532:ALA:HB3	1.53	0.88
1:A:206:ILE:HD12	1:A:213:LEU:HD21	1.55	0.88
1:A:209:CYS:HB3	1:A:212:GLN:HB2	1.54	0.88
1:A:476:TRP:HA	1:A:479:ILE:HD13	1.55	0.88
1:C:464:LEU:HD11	1:C:466:GLU:CB	2.03	0.88
1:A:482:LEU:O	1:A:485:VAL:HG22	1.74	0.88
1:B:206:ILE:HD11	1:B:213:LEU:HD11	1.54	0.88
1:A:427:MET:HG3	1:A:431:ASP:HB3	1.56	0.88
1:B:615:LYS:HG3	1:B:616:ASN:N	1.88	0.87
1:B:206:ILE:HD12	1:B:213:LEU:HD21	1.56	0.87
1:C:89:ARG:HE	1:C:96:LEU:HD21	1.33	0.87
1:C:353:ILE:HG22	1:C:354:ASP:H	1.38	0.87
1:C:170:PRO:HB2	1:C:174:CYS:HB3	1.55	0.87
1:B:209:CYS:HB3	1:B:212:GLN:HB2	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:136:LYS:HB3	1:C:137:PRO:HD3	1.56	0.87
1:A:353:ILE:HG22	1:A:354:ASP:H	1.38	0.87
1:B:482:LEU:O	1:B:485:VAL:HG22	1.75	0.87
1:B:491:GLU:HA	1:B:495:TYR:CD2	2.10	0.87
1:A:433:GLU:HG2	1:A:437:ILE:HD11	1.55	0.87
1:B:170:PRO:HB2	1:B:174:CYS:HB3	1.56	0.87
1:C:491:GLU:HA	1:C:495:TYR:CE2	2.10	0.86
1:A:491:GLU:HA	1:A:495:TYR:HD2	1.40	0.86
1:A:563:PHE:HZ	1:A:604:ILE:HG23	1.39	0.86
1:B:312:LYS:H	1:B:354:ASP:HB2	1.41	0.86
1:A:136:LYS:HB3	1:A:137:PRO:HD3	1.57	0.86
1:C:472:PRO:HG2	1:C:532:ALA:HB3	1.58	0.86
1:C:748:SER:O	1:C:752:ILE:HG13	1.76	0.86
1:C:206:ILE:HD12	1:C:213:LEU:HD21	1.55	0.85
1:B:65:ARG:NH1	1:B:93:ARG:HH12	1.72	0.85
1:B:269:ILE:HB	1:B:303:ILE:HG22	1.57	0.85
1:C:615:LYS:HG3	1:C:616:ASN:N	1.90	0.85
1:A:489:LEU:HD22	1:A:531:ILE:HD13	1.57	0.85
1:B:748:SER:O	1:B:752:ILE:HG13	1.77	0.85
1:B:491:GLU:HA	1:B:495:TYR:HE2	1.38	0.85
1:A:170:PRO:HB2	1:A:174:CYS:HB3	1.57	0.85
1:C:427:MET:SD	1:C:433:GLU:HB2	2.17	0.84
1:A:475:THR:HG22	1:A:533:ASN:ND2	1.91	0.84
1:A:615:LYS:HG3	1:A:616:ASN:N	1.91	0.84
1:A:506:PHE:CD2	1:B:699:ILE:HG12	2.12	0.84
1:C:482:LEU:O	1:C:485:VAL:HG22	1.77	0.84
1:A:100:ILE:HG22	1:A:101:SER:N	1.93	0.84
1:A:66:GLU:CB	1:A:147:ARG:NH1	2.40	0.83
1:B:502:LYS:NZ	1:C:703:ILE:HG12	1.92	0.83
1:B:353:ILE:HG22	1:B:354:ASP:H	1.40	0.83
1:B:427:MET:HE2	1:B:432:LEU:CB	2.07	0.83
1:B:476:TRP:HA	1:B:479:ILE:HD13	1.60	0.83
1:A:653:ARG:HD2	1:A:676:ALA:HA	1.58	0.83
1:B:323:ARG:NH2	1:C:279:ALA:HB2	1.94	0.83
1:A:748:SER:O	1:A:752:ILE:HG13	1.77	0.83
1:B:221:GLU:O	1:B:225:ARG:HB2	1.79	0.82
1:A:240:GLY:HA3	1:A:362:ARG:O	1.80	0.82
1:A:221:GLU:O	1:A:225:ARG:HB2	1.79	0.81
1:A:501:ASP:O	1:A:505:LYS:HG3	1.78	0.81
1:A:579:LEU:HD22	1:A:629:ILE:HD12	1.61	0.81
1:C:476:TRP:HA	1:C:479:ILE:HD13	1.59	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:221:GLU:O	1:C:225:ARG:HB2	1.79	0.81
1:B:240:GLY:HA3	1:B:362:ARG:O	1.81	0.81
1:C:203:TYR:O	1:C:206:ILE:HG12	1.80	0.81
1:A:563:PHE:CZ	1:A:604:ILE:HG23	2.16	0.81
1:B:65:ARG:HH11	1:B:93:ARG:NH1	1.79	0.81
1:B:563:PHE:HZ	1:B:604:ILE:HG23	1.44	0.81
1:C:464:LEU:HG	1:C:466:GLU:H	1.46	0.81
1:A:491:GLU:HA	1:A:495:TYR:CD2	2.17	0.80
1:A:311:PRO:C	1:A:313:ARG:H	1.85	0.80
1:B:155:ARG:NH2	1:B:386:LYS:HZ3	1.79	0.80
1:C:100:ILE:HG22	1:C:101:SER:N	1.94	0.80
1:C:475:THR:HG22	1:C:533:ASN:ND2	1.97	0.80
1:C:133:VAL:HG21	1:C:439:ALA:HB1	1.63	0.80
1:C:464:LEU:CD1	1:C:466:GLU:HB3	2.12	0.80
1:A:397:GLU:HG2	1:A:401:ASN:ND2	1.97	0.79
1:B:397:GLU:HG2	1:B:401:ASN:ND2	1.96	0.79
1:B:497:VAL:HG13	1:B:498:GLU:HG3	1.64	0.79
1:C:397:GLU:HG2	1:C:401:ASN:ND2	1.96	0.79
1:B:584:LYS:HZ2	1:B:625:ARG:HG3	1.45	0.79
1:C:269:ILE:HB	1:C:303:ILE:HG22	1.64	0.79
1:B:282:SER:HA	1:B:285:ASN:HD22	1.47	0.79
1:B:540:ILE:HD12	1:B:566:ALA:HB2	1.64	0.79
1:A:66:GLU:HB2	1:A:147:ARG:HH12	1.41	0.79
1:A:758:PHE:HB3	1:A:762:LEU:HD11	1.62	0.79
1:B:26:LEU:HD21	1:B:45:LYS:NZ	1.98	0.79
1:C:459:SER:C	1:C:461:PRO:HD2	2.07	0.79
1:C:523:GLY:HA2	2:C:900:ADP:O1A	1.83	0.79
1:A:66:GLU:CB	1:A:147:ARG:HH12	1.94	0.79
1:A:282:SER:HA	1:A:285:ASN:HD22	1.48	0.79
1:B:158:MET:HE1	1:B:419:ALA:HB1	1.65	0.78
1:B:312:LYS:HB3	1:B:354:ASP:CG	2.08	0.78
1:B:590:ILE:HG13	1:B:591:GLY:H	1.46	0.78
1:C:282:SER:HA	1:C:285:ASN:HD22	1.47	0.78
1:C:579:LEU:HD23	1:C:579:LEU:O	1.83	0.78
1:B:469:VAL:HG21	1:B:565:LYS:HE3	1.65	0.78
1:B:519:PRO:HG2	1:B:522:CYS:SG	2.22	0.78
1:C:158:MET:HE1	1:C:419:ALA:HB1	1.65	0.78
1:C:240:GLY:HA3	1:C:362:ARG:O	1.84	0.78
1:A:21:ASN:HB2	1:A:25:ARG:HH21	1.43	0.78
1:B:427:MET:CE	1:B:432:LEU:HB2	2.12	0.78
1:B:100:ILE:HG22	1:B:101:SER:N	1.94	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:60:LYS:HE3	1:C:103:GLN:HE22	1.47	0.78
1:A:378:LEU:HD13	1:A:397:GLU:HA	1.66	0.78
1:B:22:ARG:CG	1:B:25:ARG:HH12	1.93	0.78
1:C:224:LEU:HD21	1:C:300:ILE:HD11	1.65	0.78
1:B:523:GLY:HA2	2:B:900:ADP:O1A	1.83	0.78
1:B:378:LEU:HD13	1:B:397:GLU:HA	1.66	0.78
1:B:495:TYR:CD1	1:C:703:ILE:HD13	2.19	0.78
1:A:110:TYR:HD2	1:A:177:ALA:HB2	1.48	0.77
1:B:427:MET:HG3	1:B:432:LEU:CD1	2.12	0.77
1:A:364:ASP:OD1	1:A:365:ARG:HG2	1.84	0.77
1:C:659:ALA:HA	1:C:662:ARG:HG3	1.66	0.77
1:A:652:SER:O	1:A:656:ILE:HG13	1.85	0.77
1:C:155:ARG:NH2	1:C:386:LYS:HZ3	1.83	0.77
1:B:22:ARG:HG3	1:B:25:ARG:NH1	1.96	0.77
1:C:309:ILE:C	1:C:311:PRO:HD2	2.10	0.77
1:B:464:LEU:HG	1:B:466:GLU:H	1.49	0.77
1:C:548:LEU:HD21	1:C:581:SER:O	1.83	0.77
1:A:433:GLU:HG2	1:A:437:ILE:CD1	2.14	0.76
1:C:206:ILE:CD1	1:C:213:LEU:HD11	2.15	0.76
1:B:110:TYR:HD2	1:B:177:ALA:HB2	1.49	0.76
1:B:155:ARG:HH21	1:B:386:LYS:HZ3	1.28	0.76
1:B:233:ILE:HD13	1:C:442:MET:HE1	1.65	0.76
1:C:113:ARG:HH21	1:C:183:HIS:CE1	2.03	0.76
1:A:90:ASN:HD22	1:A:198:LEU:CD2	1.99	0.76
1:A:155:ARG:NH2	1:A:386:LYS:HZ3	1.84	0.76
1:A:548:LEU:HD21	1:A:581:SER:O	1.85	0.76
1:B:521:GLY:HA3	1:B:685:ALA:HB2	1.66	0.76
1:C:634:LEU:HD22	1:C:642:LEU:HD11	1.68	0.76
1:C:378:LEU:HD13	1:C:397:GLU:HA	1.66	0.76
1:A:579:LEU:HD23	1:A:579:LEU:O	1.85	0.75
1:B:650:GLU:O	1:B:654:VAL:HG23	1.87	0.75
1:B:364:ASP:OD1	1:B:365:ARG:HG2	1.85	0.75
1:C:90:ASN:HD22	1:C:198:LEU:CD2	2.00	0.75
1:B:206:ILE:CD1	1:B:213:LEU:HD11	2.16	0.75
1:A:489:LEU:HD22	1:A:531:ILE:CD1	2.17	0.75
1:A:113:ARG:HH21	1:A:183:HIS:CE1	2.05	0.75
1:B:113:ARG:HH21	1:B:183:HIS:CE1	2.05	0.75
1:C:515:LEU:HD13	1:C:634:LEU:HD21	1.69	0.75
1:C:143:TYR:HA	1:C:176:VAL:O	1.85	0.75
1:C:499:HIS:N	1:C:500:PRO:HD3	2.00	0.75
1:B:464:LEU:HD11	1:B:466:GLU:CB	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:143:TYR:HA	1:B:176:VAL:O	1.86	0.74
1:A:158:MET:HE1	1:A:419:ALA:HB1	1.69	0.74
1:C:364:ASP:OD1	1:C:365:ARG:HG2	1.87	0.74
1:C:665:PRO:O	1:C:731:ILE:HB	1.88	0.74
1:B:634:LEU:HD22	1:B:642:LEU:HD11	1.69	0.74
1:C:521:GLY:HA2	1:C:685:ALA:HB2	1.67	0.74
1:A:143:TYR:HA	1:A:176:VAL:O	1.87	0.74
1:B:90:ASN:HD22	1:B:198:LEU:CD2	2.00	0.74
1:B:658:LYS:O	1:B:662:ARG:HB2	1.87	0.74
1:B:499:HIS:N	1:B:500:PRO:HD3	2.03	0.74
1:B:615:LYS:CG	1:B:616:ASN:H	1.99	0.74
1:A:206:ILE:CD1	1:A:213:LEU:HD11	2.17	0.74
1:B:647:LEU:HB3	1:B:648:PRO:HD2	1.69	0.74
1:C:110:TYR:HD2	1:C:177:ALA:HB2	1.53	0.74
1:C:435:GLU:HG3	1:C:436:THR:N	2.03	0.73
1:A:427:MET:SD	1:A:437:ILE:HD11	2.27	0.73
1:A:634:LEU:HD22	1:A:642:LEU:HD11	1.69	0.73
1:C:563:PHE:HZ	1:C:604:ILE:HG23	1.53	0.73
1:A:437:ILE:CG2	1:A:438:ASP:N	2.50	0.73
1:A:647:LEU:HB3	1:A:648:PRO:HD2	1.69	0.73
1:C:270:ASN:HB2	1:C:273:GLU:HB2	1.70	0.73
1:C:615:LYS:CG	1:C:616:ASN:H	2.00	0.73
1:A:758:PHE:O	1:A:762:LEU:HG	1.88	0.73
1:B:155:ARG:HH21	1:B:386:LYS:NZ	1.87	0.73
1:B:270:ASN:HB2	1:B:273:GLU:HB2	1.71	0.73
1:C:89:ARG:CZ	1:C:96:LEU:HD21	2.18	0.73
1:A:433:GLU:C	1:A:434:ASP:CA	2.61	0.73
1:A:519:PRO:HD3	1:A:755:TYR:HD2	1.53	0.73
1:C:39:VAL:HG11	1:C:59:LEU:HD11	1.69	0.73
1:A:129:ASN:O	1:A:133:VAL:HG23	1.88	0.73
1:A:270:ASN:HB2	1:A:273:GLU:HB2	1.70	0.73
1:A:633:ILE:CG2	1:A:639:LEU:HD12	2.19	0.73
1:B:147:ARG:HG2	1:B:148:LYS:N	2.04	0.73
1:A:317:HIS:CE1	1:B:317:HIS:NE2	2.57	0.72
1:A:475:THR:HG22	1:A:533:ASN:HD21	1.54	0.72
1:A:313:ARG:HG2	1:A:314:GLU:H	1.53	0.72
1:B:129:ASN:O	1:B:133:VAL:HG23	1.89	0.72
1:C:32:ILE:HG12	1:C:83:ARG:HD3	1.70	0.72
1:A:506:PHE:HD2	1:B:699:ILE:HG12	1.52	0.72
1:C:633:ILE:CG2	1:C:639:LEU:HD12	2.19	0.72
1:C:599:ARG:NH1	1:C:599:ARG:HB3	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:627:ASP:HB3	1:B:758:PHE:CZ	2.24	0.72
1:B:563:PHE:CZ	1:B:604:ILE:HG23	2.25	0.72
1:C:608:MET:HE2	1:C:619:ILE:HG21	1.70	0.72
1:A:437:ILE:HG23	1:A:438:ASP:N	2.02	0.72
1:B:582:ILE:HD12	1:B:601:ILE:HG12	1.72	0.72
1:C:155:ARG:HH21	1:C:386:LYS:HZ3	1.35	0.72
1:A:32:ILE:HG12	1:A:83:ARG:HD3	1.71	0.72
1:A:100:ILE:CG2	1:A:101:SER:H	2.02	0.72
1:C:129:ASN:O	1:C:133:VAL:HG23	1.90	0.72
1:B:608:MET:HE2	1:B:619:ILE:HG21	1.70	0.72
1:C:90:ASN:ND2	1:C:198:LEU:HD23	2.04	0.72
1:A:80:GLU:HG2	1:B:429:LEU:HD13	1.72	0.71
1:B:633:ILE:CG2	1:B:639:LEU:HD12	2.19	0.71
1:C:515:LEU:HD13	1:C:634:LEU:CD2	2.20	0.71
1:A:627:ASP:HB3	1:A:758:PHE:CE1	2.26	0.71
1:B:599:ARG:HB3	1:B:599:ARG:NH1	2.05	0.71
1:A:60:LYS:O	1:A:100:ILE:HG23	1.91	0.71
1:B:90:ASN:ND2	1:B:198:LEU:HD23	2.05	0.71
1:A:90:ASN:ND2	1:A:198:LEU:HD23	2.05	0.71
1:A:147:ARG:HG2	1:A:148:LYS:N	2.04	0.71
1:A:232:ALA:HB2	1:B:125:GLY:HA3	1.72	0.71
1:A:599:ARG:HB3	1:A:599:ARG:NH1	2.04	0.71
1:A:608:MET:HE2	1:A:619:ILE:HG21	1.71	0.71
1:A:582:ILE:HD13	1:A:600:VAL:HB	1.73	0.71
1:B:232:ALA:HB2	1:C:125:GLY:CA	2.19	0.71
1:A:615:LYS:CG	1:A:616:ASN:H	2.01	0.71
1:A:641:GLN:C	1:A:642:LEU:HD22	2.16	0.70
1:B:641:GLN:C	1:B:642:LEU:HD22	2.16	0.70
1:A:612:SER:HB3	1:A:615:LYS:HB2	1.73	0.70
1:B:612:SER:HB3	1:B:615:LYS:HB2	1.73	0.70
1:B:100:ILE:CG2	1:B:101:SER:H	2.03	0.70
1:A:230:PHE:HA	1:A:233:ILE:HG22	1.72	0.70
1:A:427:MET:CE	1:A:437:ILE:HD12	2.20	0.70
1:C:427:MET:HG2	1:C:433:GLU:HB2	1.74	0.70
1:B:203:TYR:CE2	1:B:261:GLU:HG2	2.27	0.70
1:C:100:ILE:CG2	1:C:101:SER:H	2.04	0.70
1:C:641:GLN:C	1:C:642:LEU:HD22	2.16	0.70
1:C:92:LEU:HD13	1:C:100:ILE:HD13	1.73	0.70
1:B:514:VAL:HG23	1:B:618:PHE:HZ	1.57	0.69
1:B:749:ASP:HA	1:B:752:ILE:HD12	1.74	0.69
1:C:460:ASN:N	1:C:461:PRO:CD	2.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:230:PHE:HA	1:B:233:ILE:CG2	2.22	0.69
1:B:230:PHE:HA	1:B:233:ILE:HG22	1.73	0.69
1:A:155:ARG:HH21	1:A:386:LYS:HZ3	1.40	0.69
1:B:490:GLN:HB3	1:B:494:GLN:HG3	1.74	0.69
1:A:92:LEU:HD13	1:A:100:ILE:HD13	1.73	0.69
1:B:32:ILE:HG12	1:B:83:ARG:HD3	1.72	0.69
1:B:323:ARG:HH22	1:C:279:ALA:CB	2.02	0.69
1:C:612:SER:HB3	1:C:615:LYS:HB2	1.74	0.69
1:C:62:LYS:NZ	1:C:98:ASP:HB3	2.07	0.69
1:C:63:LYS:O	1:C:65:ARG:HG3	1.93	0.69
1:C:427:MET:CG	1:C:433:GLU:HB2	2.23	0.69
1:B:514:VAL:HG11	1:B:643:ILE:HD12	1.74	0.69
1:A:93:ARG:HE	1:A:194:GLU:HB2	1.56	0.69
1:A:307:ASP:O	1:A:311:PRO:HD3	1.92	0.69
1:A:407:VAL:HG22	1:A:410:ASP:OD2	1.93	0.69
1:A:517:TYR:C	1:A:524:LYS:HE2	2.17	0.69
1:B:65:ARG:NH1	1:B:93:ARG:NH1	2.38	0.69
1:B:92:LEU:HD13	1:B:100:ILE:HD13	1.74	0.69
1:B:573:VAL:HG12	1:B:618:PHE:HB3	1.74	0.69
1:C:497:VAL:HG13	1:C:498:GLU:HG3	1.73	0.69
1:A:26:LEU:HD21	1:A:45:LYS:NZ	2.07	0.69
1:A:110:TYR:CD2	1:A:177:ALA:HB2	2.28	0.69
1:A:749:ASP:HA	1:A:752:ILE:HD12	1.74	0.69
1:B:110:TYR:CD2	1:B:177:ALA:HB2	2.28	0.69
1:B:244:TYR:CE1	1:B:350:PRO:HG3	2.28	0.69
1:B:502:LYS:HB3	1:C:699:ILE:HG23	1.75	0.69
1:C:250:GLY:HA2	2:C:807:ADP:PA	2.33	0.69
1:C:403:THR:HB	1:C:406:HIS:CG	2.27	0.69
1:C:475:THR:HG22	1:C:533:ASN:HD21	1.57	0.69
1:A:230:PHE:HA	1:A:233:ILE:CG2	2.23	0.69
1:A:44:PRO:HG2	1:A:79:ASP:OD1	1.93	0.68
1:A:155:ARG:HH21	1:A:386:LYS:NZ	1.91	0.68
1:A:388:MET:HE3	1:A:447:VAL:HG21	1.74	0.68
1:B:403:THR:HB	1:B:406:HIS:CG	2.28	0.68
1:C:653:ARG:CD	1:C:679:THR:O	2.41	0.68
1:B:224:LEU:HD21	1:B:300:ILE:HD11	1.75	0.68
1:B:65:ARG:HH11	1:B:93:ARG:HH12	1.40	0.68
1:C:244:TYR:CE1	1:C:350:PRO:HG3	2.29	0.68
1:C:512:LYS:NZ	1:C:611:MET:HB3	2.09	0.68
1:A:512:LYS:HZ3	1:A:608:MET:HG2	1.58	0.68
1:C:733:ARG:NH1	1:C:733:ARG:HB2	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:749:ASP:HA	1:C:752:ILE:HD12	1.74	0.68
1:A:303:ILE:HD11	1:A:345:ALA:HB2	1.76	0.68
1:A:635:ARG:NH1	1:A:635:ARG:HB3	2.09	0.68
1:C:312:LYS:HB3	1:C:354:ASP:CB	2.23	0.68
1:A:734:ASP:O	1:A:738:GLU:HB2	1.94	0.68
1:B:60:LYS:HB2	1:B:101:SER:OG	1.94	0.68
1:A:437:ILE:HG23	1:A:438:ASP:H	1.59	0.68
1:B:734:ASP:O	1:B:738:GLU:HB2	1.94	0.68
1:C:734:ASP:O	1:C:738:GLU:HB2	1.94	0.68
1:A:244:TYR:CE1	1:A:350:PRO:HG3	2.29	0.68
1:C:66:GLU:HB2	1:C:147:ARG:NH1	2.09	0.68
1:C:147:ARG:HG2	1:C:148:LYS:N	2.07	0.68
1:A:633:ILE:O	1:A:639:LEU:HB2	1.94	0.68
1:B:90:ASN:HD22	1:B:198:LEU:HD23	1.59	0.68
1:A:403:THR:HB	1:A:406:HIS:CG	2.28	0.67
1:A:492:LEU:O	1:A:496:PRO:HG3	1.95	0.67
1:B:244:TYR:CZ	1:B:350:PRO:HG3	2.29	0.67
1:C:155:ARG:HH21	1:C:386:LYS:NZ	1.92	0.67
1:C:244:TYR:CZ	1:C:350:PRO:HG3	2.29	0.67
1:B:70:ILE:HD11	1:B:145:PRO:HG3	1.76	0.67
1:C:407:VAL:HG22	1:C:410:ASP:OD2	1.93	0.67
1:A:633:ILE:HG22	1:A:639:LEU:HD12	1.75	0.67
1:A:733:ARG:NH1	1:A:733:ARG:HB2	2.09	0.67
1:B:407:VAL:HG22	1:B:410:ASP:OD2	1.94	0.67
1:C:230:PHE:HA	1:C:233:ILE:HG22	1.74	0.67
1:A:514:VAL:HG23	1:A:618:PHE:HZ	1.60	0.67
1:B:388:MET:HE3	1:B:447:VAL:HG21	1.75	0.67
1:C:388:MET:HE3	1:C:447:VAL:HG21	1.76	0.67
1:C:524:LYS:HB2	3:C:915:AF3:F2	1.84	0.67
1:A:357:LEU:HB3	1:A:363:PHE:HD2	1.59	0.67
1:A:758:PHE:HB3	1:A:762:LEU:CD1	2.24	0.67
1:C:635:ARG:NH1	1:C:635:ARG:HB3	2.10	0.67
1:A:503:PHE:HA	1:B:699:ILE:HD13	1.77	0.67
1:A:656:ILE:HG21	1:A:687:LEU:HD12	1.76	0.67
1:A:702:SER:O	1:A:706:GLU:HG3	1.94	0.67
1:B:733:ARG:NH1	1:B:733:ARG:HB2	2.10	0.67
1:C:63:LYS:HD2	1:C:93:ARG:HD2	1.77	0.67
1:A:427:MET:HE3	1:A:441:VAL:CG1	2.20	0.67
1:C:230:PHE:HA	1:C:233:ILE:CG2	2.24	0.67
1:C:538:ASN:O	1:C:573:VAL:HG22	1.95	0.67
1:A:90:ASN:HD22	1:A:198:LEU:HD23	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:242:LEU:C	1:C:243:LEU:HD12	2.20	0.67
1:C:633:ILE:HG22	1:C:639:LEU:HD12	1.76	0.67
1:B:633:ILE:HG22	1:B:639:LEU:HD12	1.75	0.67
1:C:512:LYS:HZ3	1:C:611:MET:HB3	1.59	0.67
1:A:242:LEU:C	1:A:243:LEU:HD12	2.20	0.67
1:B:633:ILE:O	1:B:639:LEU:HB2	1.95	0.67
1:C:297:ALA:HA	1:C:298:PRO:C	2.20	0.67
1:C:70:ILE:HD11	1:C:145:PRO:HG3	1.76	0.66
1:C:503:PHE:HD2	1:C:504:LEU:HD22	1.60	0.66
1:A:244:TYR:CZ	1:A:350:PRO:HG3	2.30	0.66
1:A:512:LYS:HZ3	1:A:608:MET:CG	2.07	0.66
1:A:582:ILE:HD12	1:A:601:ILE:HG12	1.77	0.66
1:B:201:VAL:HG21	1:B:256:ARG:HD2	1.77	0.66
1:B:242:LEU:C	1:B:243:LEU:HD12	2.20	0.66
1:B:479:ILE:HD12	1:B:479:ILE:N	2.10	0.66
1:C:543:LYS:HA	1:C:577:ASP:HB3	1.78	0.66
1:A:70:ILE:HD11	1:A:145:PRO:HG3	1.77	0.66
1:A:427:MET:SD	1:A:437:ILE:CD1	2.82	0.66
1:C:93:ARG:HE	1:C:194:GLU:HB2	1.59	0.66
1:C:312:LYS:HB3	1:C:354:ASP:CG	2.20	0.66
1:C:587:GLY:HA3	1:C:591:GLY:HA2	1.76	0.66
1:A:599:ARG:HB3	1:A:599:ARG:HH11	1.61	0.66
1:B:635:ARG:HB3	1:B:635:ARG:NH1	2.10	0.66
1:C:357:LEU:HB3	1:C:363:PHE:HD2	1.60	0.66
1:B:93:ARG:HE	1:B:194:GLU:HB2	1.60	0.66
1:B:297:ALA:HA	1:B:298:PRO:C	2.21	0.66
1:B:653:ARG:CD	1:B:679:THR:O	2.44	0.66
1:C:633:ILE:O	1:C:639:LEU:HB2	1.94	0.66
1:A:306:LEU:HD22	1:A:345:ALA:HB1	1.78	0.66
1:B:329:LEU:HD13	1:C:272:PRO:HG2	1.78	0.66
1:C:563:PHE:CZ	1:C:604:ILE:HG23	2.29	0.66
1:C:599:ARG:HB3	1:C:599:ARG:HH11	1.61	0.66
1:C:647:LEU:H	1:C:647:LEU:HD12	1.60	0.66
1:A:26:LEU:O	1:A:27:ILE:HD13	1.96	0.66
1:A:169:ASP:CB	1:A:170:PRO:HD3	2.23	0.66
1:A:297:ALA:HA	1:A:298:PRO:C	2.20	0.66
1:C:26:LEU:HD11	1:C:45:LYS:HE2	1.78	0.66
1:A:208:GLY:HA2	1:A:210:ARG:NH1	2.11	0.66
1:A:113:ARG:HG2	1:A:113:ARG:HH11	1.61	0.66
1:B:312:LYS:HB3	1:B:354:ASP:OD2	1.96	0.66
1:C:110:TYR:CD2	1:C:177:ALA:HB2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:44:PRO:HG2	1:B:79:ASP:OD1	1.96	0.66
1:C:113:ARG:HG2	1:C:113:ARG:HH11	1.61	0.66
1:B:496:PRO:O	1:B:500:PRO:HG3	1.96	0.65
1:B:579:LEU:HD22	1:B:629:ILE:CD1	2.25	0.65
1:B:741:ARG:HA	1:B:741:ARG:HE	1.61	0.65
1:A:177:ALA:C	1:A:179:ASP:H	2.04	0.65
1:A:500:PRO:O	1:A:504:LEU:HD13	1.96	0.65
1:A:741:ARG:HA	1:A:741:ARG:HE	1.62	0.65
1:C:516:PHE:O	1:C:622:ALA:HA	1.97	0.65
1:C:741:ARG:HA	1:C:741:ARG:HE	1.61	0.65
1:B:169:ASP:CB	1:B:170:PRO:HD3	2.24	0.65
1:B:495:TYR:HD1	1:C:703:ILE:HD13	1.61	0.65
1:C:60:LYS:HB2	1:C:101:SER:OG	1.96	0.65
1:A:499:HIS:N	1:A:500:PRO:HD3	2.11	0.65
1:B:357:LEU:HB3	1:B:363:PHE:HD2	1.61	0.65
1:C:60:LYS:HE3	1:C:103:GLN:NE2	2.12	0.65
1:C:203:TYR:CE2	1:C:261:GLU:HG2	2.32	0.65
1:C:237:PRO:O	1:C:239:ARG:HG3	1.96	0.65
1:A:579:LEU:HD22	1:A:629:ILE:CD1	2.27	0.65
1:B:119:ILE:HD12	1:B:162:GLU:HB2	1.79	0.65
1:C:44:PRO:HG2	1:C:79:ASP:OD1	1.96	0.65
1:B:502:LYS:HA	1:B:505:LYS:HG3	1.77	0.65
1:B:520:PRO:HA	3:B:915:AF3:F2	1.86	0.65
1:A:435:GLU:OE1	1:A:435:GLU:HA	1.97	0.65
1:B:113:ARG:HG2	1:B:113:ARG:HH11	1.62	0.65
1:C:667:ALA:HB2	1:C:731:ILE:O	1.97	0.65
1:A:114:ILE:HD11	1:A:176:VAL:HG22	1.77	0.65
1:B:237:PRO:O	1:B:239:ARG:HG3	1.97	0.65
1:C:501:ASP:OD1	1:C:502:LYS:HD2	1.96	0.65
1:C:89:ARG:NE	1:C:96:LEU:CD2	2.54	0.65
1:C:491:GLU:HA	1:C:495:TYR:HD2	1.58	0.65
1:B:495:TYR:CD1	1:C:703:ILE:CD1	2.80	0.64
1:C:427:MET:HE3	1:C:441:VAL:CG1	2.19	0.64
1:A:210:ARG:H	1:A:210:ARG:HD2	1.62	0.64
1:B:313:ARG:HG2	1:B:314:GLU:H	1.62	0.64
1:B:177:ALA:C	1:B:179:ASP:H	2.05	0.64
1:B:500:PRO:O	1:B:504:LEU:HD13	1.98	0.64
1:A:654:VAL:HG22	1:A:676:ALA:HB2	1.78	0.64
1:B:208:GLY:HA2	1:B:210:ARG:NH1	2.12	0.64
1:B:427:MET:CG	1:B:432:LEU:HD13	2.25	0.64
1:B:502:LYS:HZ3	1:C:703:ILE:HG12	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:208:GLY:HA2	1:C:210:ARG:NH1	2.12	0.64
1:C:496:PRO:O	1:C:500:PRO:HG3	1.96	0.64
1:A:237:PRO:O	1:A:239:ARG:HG3	1.97	0.64
1:B:153:LEU:HD12	1:B:161:VAL:O	1.97	0.64
1:B:548:LEU:HD21	1:B:581:SER:O	1.98	0.64
1:B:664:SER:HB3	1:B:665:PRO:HD2	1.79	0.64
1:C:479:ILE:N	1:C:479:ILE:HD12	2.13	0.64
1:A:323:ARG:HH22	1:B:279:ALA:HB2	1.62	0.64
1:A:574:LEU:HG	1:A:576:PHE:HE1	1.63	0.64
1:B:210:ARG:H	1:B:210:ARG:HD2	1.63	0.64
1:B:508:MET:HE1	1:C:696:LYS:HG3	1.80	0.64
1:B:208:GLY:C	1:B:209:CYS:SG	2.81	0.63
1:C:208:GLY:C	1:C:209:CYS:SG	2.81	0.63
1:A:612:SER:CB	1:A:615:LYS:HB2	2.29	0.63
1:B:574:LEU:HG	1:B:576:PHE:CE1	2.33	0.63
1:C:177:ALA:C	1:C:179:ASP:H	2.06	0.63
1:C:373:ASP:HA	1:C:377:ARG:HH12	1.63	0.63
1:A:582:ILE:CD1	1:A:600:VAL:HB	2.27	0.63
1:B:584:LYS:HZ2	1:B:625:ARG:CG	2.11	0.63
1:B:599:ARG:HB3	1:B:599:ARG:HH11	1.61	0.63
1:B:580:ASP:OD2	1:B:584:LYS:NZ	2.31	0.63
1:C:119:ILE:HD12	1:C:162:GLU:HB2	1.81	0.63
1:A:119:ILE:HD12	1:A:162:GLU:HB2	1.81	0.63
1:A:216:ILE:HA	1:A:219:MET:HE3	1.80	0.63
1:B:472:PRO:HB2	1:B:533:ASN:HB2	1.80	0.63
1:C:503:PHE:HZ	1:C:510:PRO:N	1.97	0.63
1:B:373:ASP:HA	1:B:377:ARG:HH12	1.63	0.63
1:C:114:ILE:HD11	1:C:176:VAL:HG22	1.79	0.63
1:C:259:ALA:HB2	1:C:300:ILE:HD12	1.81	0.63
1:C:270:ASN:O	1:C:273:GLU:HB3	1.99	0.63
1:B:233:ILE:HD13	1:C:442:MET:CE	2.29	0.63
1:C:170:PRO:HB2	1:C:174:CYS:CB	2.29	0.63
1:A:22:ARG:C	1:A:24:ASN:H	2.07	0.63
1:A:49:LEU:N	1:A:49:LEU:HD12	2.14	0.63
1:A:155:ARG:CZ	1:A:386:LYS:HZ3	2.12	0.63
1:A:222:LEU:HD12	1:B:420:LEU:HD22	1.81	0.63
1:A:314:GLU:H	1:A:314:GLU:CD	2.07	0.63
1:B:84:MET:HE1	1:B:100:ILE:HD12	1.80	0.63
1:B:251:LYS:HD3	1:B:346:ALA:HB1	1.80	0.63
1:C:758:PHE:HB3	1:C:762:LEU:CD1	2.27	0.63
1:A:153:LEU:HD12	1:A:161:VAL:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:GLU:O	1:B:287:ARG:HB2	1.99	0.62
1:C:155:ARG:HE	1:C:386:LYS:NZ	1.96	0.62
1:A:270:ASN:O	1:A:273:GLU:HB3	1.99	0.62
1:C:153:LEU:HD12	1:C:161:VAL:O	1.99	0.62
1:A:373:ASP:HA	1:A:377:ARG:HH12	1.62	0.62
1:A:472:PRO:HG2	1:A:532:ALA:CB	2.24	0.62
1:B:645:ILE:HD12	1:B:645:ILE:N	2.15	0.62
1:A:465:ARG:HB3	1:A:465:ARG:HH11	1.63	0.62
1:B:378:LEU:CD1	1:B:397:GLU:HA	2.29	0.62
1:B:612:SER:CB	1:B:615:LYS:HB2	2.29	0.62
1:C:59:LEU:HD13	1:C:92:LEU:HD11	1.82	0.62
1:C:169:ASP:CB	1:C:170:PRO:HD3	2.26	0.62
1:A:201:VAL:HG21	1:A:256:ARG:HD2	1.82	0.62
1:A:250:GLY:HA2	2:A:807:ADP:PA	2.39	0.62
1:A:307:ASP:HA	1:A:310:ALA:HB3	1.81	0.62
1:A:378:LEU:CD1	1:A:397:GLU:HA	2.29	0.62
1:B:49:LEU:HD12	1:B:49:LEU:N	2.14	0.62
1:C:201:VAL:HG21	1:C:256:ARG:HD2	1.81	0.62
1:C:210:ARG:H	1:C:210:ARG:HD2	1.65	0.62
1:C:26:LEU:HD21	1:C:45:LYS:NZ	2.15	0.62
1:A:251:LYS:HD3	1:A:346:ALA:HB1	1.80	0.62
1:A:479:ILE:HD12	1:A:479:ILE:N	2.13	0.62
1:B:114:ILE:HD11	1:B:176:VAL:HG22	1.80	0.62
1:B:524:LYS:HB2	1:B:524:LYS:NZ	2.15	0.62
1:C:49:LEU:HD12	1:C:49:LEU:N	2.15	0.62
1:C:216:ILE:HA	1:C:219:MET:HE3	1.82	0.62
1:C:251:LYS:HD3	1:C:346:ALA:HB1	1.81	0.62
1:A:283:GLU:O	1:A:287:ARG:HB2	2.00	0.62
1:C:90:ASN:HD22	1:C:198:LEU:HD23	1.58	0.62
1:A:695:CYS:C	1:A:697:LEU:H	2.08	0.62
1:B:579:LEU:C	1:B:579:LEU:HD23	2.25	0.62
1:C:270:ASN:HB2	1:C:273:GLU:CB	2.30	0.61
1:C:612:SER:CB	1:C:615:LYS:HB2	2.29	0.61
1:B:501:ASP:OD1	1:B:502:LYS:HG3	2.01	0.61
1:B:582:ILE:HD11	1:B:600:VAL:HB	1.80	0.61
1:A:657:LEU:HD13	1:A:672:LEU:HD22	1.82	0.61
1:B:230:PHE:HB2	1:B:340:HIS:NE2	2.15	0.61
1:B:466:GLU:HG2	1:B:467:THR:HG23	1.82	0.61
1:A:230:PHE:HB2	1:A:340:HIS:NE2	2.16	0.61
1:A:84:MET:HE1	1:A:100:ILE:HD12	1.81	0.61
1:B:427:MET:HE3	1:B:441:VAL:CG1	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:522:CYS:O	2:C:900:ADP:N7	2.33	0.61
1:A:312:LYS:HB3	1:A:354:ASP:CG	2.26	0.61
1:B:579:LEU:HD23	1:B:579:LEU:O	2.00	0.61
1:C:206:ILE:HD11	1:C:213:LEU:CD1	2.28	0.61
1:A:578:GLU:HB3	1:A:581:SER:HB3	1.83	0.61
1:B:316:THR:OG1	1:B:322:ARG:HG2	2.00	0.61
1:A:90:ASN:ND2	1:A:198:LEU:CD2	2.63	0.61
1:B:270:ASN:O	1:B:273:GLU:HB3	2.00	0.61
1:A:153:LEU:HD13	1:A:162:GLU:HG2	1.83	0.60
1:A:567:ARG:NH1	1:A:567:ARG:HB2	2.16	0.60
1:C:378:LEU:CD1	1:C:397:GLU:HA	2.29	0.60
1:C:647:LEU:HB3	1:C:648:PRO:CD	2.25	0.60
1:A:208:GLY:C	1:A:209:CYS:SG	2.83	0.60
1:B:758:PHE:HB3	1:B:762:LEU:HD11	1.82	0.60
1:C:84:MET:HE1	1:C:100:ILE:HD12	1.82	0.60
1:C:230:PHE:HB2	1:C:340:HIS:NE2	2.15	0.60
1:A:311:PRO:C	1:A:313:ARG:N	2.49	0.60
1:A:580:ASP:OD2	1:A:625:ARG:HB2	2.01	0.60
1:C:283:GLU:O	1:C:287:ARG:HB2	2.00	0.60
1:B:216:ILE:HA	1:B:219:MET:HE3	1.83	0.60
1:B:524:LYS:CB	1:B:524:LYS:HZ2	2.13	0.60
1:A:233:ILE:HD11	1:B:158:MET:SD	2.42	0.60
1:B:239:ARG:HH12	1:B:336:LYS:HB2	1.66	0.60
1:B:695:CYS:C	1:B:697:LEU:H	2.08	0.60
1:A:313:ARG:HG2	1:A:314:GLU:N	2.16	0.60
1:B:213:LEU:HB3	1:B:217:LYS:HE3	1.84	0.60
1:C:155:ARG:CZ	1:C:386:LYS:HZ3	2.14	0.60
1:A:512:LYS:HE3	1:A:611:MET:HE3	1.83	0.60
1:C:503:PHE:CZ	1:C:510:PRO:N	2.70	0.60
1:A:501:ASP:OD1	1:A:502:LYS:HG3	2.01	0.60
1:C:203:TYR:C	1:C:205:ASP:H	2.10	0.60
1:A:270:ASN:HB2	1:A:273:GLU:CB	2.30	0.60
1:A:445:LEU:HD23	1:A:445:LEU:C	2.26	0.60
1:A:493:VAL:HG21	1:A:531:ILE:HD11	1.84	0.60
1:A:567:ARG:HD3	1:B:460:ASN:ND2	2.17	0.60
1:B:270:ASN:HB2	1:B:273:GLU:CB	2.31	0.60
1:C:111:GLY:CA	1:C:170:PRO:HG2	2.29	0.60
1:C:656:ILE:HG23	2:C:900:ADP:C2	2.37	0.60
1:A:239:ARG:HH12	1:A:336:LYS:HB2	1.67	0.59
1:B:593:GLY:O	1:C:587:GLY:HA2	2.01	0.59
1:C:695:CYS:C	1:C:697:LEU:H	2.08	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:482:LEU:HD12	1:A:645:ILE:HG23	1.84	0.59
1:B:445:LEU:HD23	1:B:445:LEU:C	2.27	0.59
1:B:514:VAL:HG23	1:B:618:PHE:CZ	2.35	0.59
1:C:141:GLU:HG2	1:C:178:PRO:HB3	1.82	0.59
1:C:201:VAL:HG12	1:C:202:GLY:N	2.16	0.59
1:C:613:THR:HG23	1:C:614:LYS:HG3	1.84	0.59
1:A:613:THR:HG23	1:A:614:LYS:HG3	1.83	0.59
1:B:320:VAL:O	1:B:324:ILE:HG13	2.00	0.59
1:B:574:LEU:HG	1:B:576:PHE:HE1	1.67	0.59
1:C:90:ASN:ND2	1:C:198:LEU:CD2	2.63	0.59
1:B:155:ARG:CZ	1:B:386:LYS:HZ3	2.15	0.59
1:C:515:LEU:HB3	1:C:642:LEU:CD1	2.33	0.59
1:A:28:VAL:HG13	1:A:96:LEU:HA	1.85	0.59
1:A:90:ASN:HD22	1:A:198:LEU:HD21	1.68	0.59
1:C:239:ARG:HH12	1:C:336:LYS:HB2	1.67	0.59
1:C:433:GLU:O	1:C:433:GLU:HG2	2.03	0.59
1:A:657:LEU:HB2	1:A:672:LEU:HD13	1.84	0.59
1:B:56:THR:HG22	1:B:70:ILE:CD1	2.32	0.59
1:B:220:VAL:HG12	1:B:342:ILE:HD13	1.85	0.59
1:B:28:VAL:HG13	1:B:96:LEU:HA	1.85	0.59
1:C:514:VAL:HG12	1:C:515:LEU:N	2.17	0.59
1:A:309:ILE:HG22	1:A:309:ILE:O	2.02	0.59
1:B:372:PRO:HD2	1:B:407:VAL:HA	1.84	0.59
1:B:613:THR:HG23	1:B:614:LYS:HG3	1.84	0.59
1:C:500:PRO:O	1:C:504:LEU:HD23	2.02	0.59
1:B:90:ASN:ND2	1:B:198:LEU:CD2	2.64	0.59
1:B:201:VAL:HG12	1:B:202:GLY:N	2.17	0.59
1:C:28:VAL:HG13	1:C:96:LEU:HA	1.85	0.59
1:A:313:ARG:CG	1:A:314:GLU:H	2.16	0.59
1:A:632:ALA:HA	1:A:635:ARG:CD	2.33	0.59
1:A:206:ILE:HD11	1:A:213:LEU:CD1	2.28	0.58
1:B:203:TYR:C	1:B:205:ASP:H	2.11	0.58
1:B:513:GLY:HA3	1:B:619:ILE:O	2.03	0.58
1:C:642:LEU:HD22	1:C:642:LEU:N	2.18	0.58
1:A:635:ARG:HB3	1:A:635:ARG:HH11	1.68	0.58
1:C:372:PRO:HD2	1:C:407:VAL:HA	1.84	0.58
1:A:290:PHE:CD1	1:A:301:ILE:CD1	2.86	0.58
1:C:184:CYS:C	1:C:186:GLY:H	2.10	0.58
1:A:220:VAL:HG12	1:A:342:ILE:HD13	1.86	0.58
1:B:36:ASN:OD1	1:B:87:VAL:HG21	2.03	0.58
1:B:235:VAL:HG11	1:C:420:LEU:HD21	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:82:ILE:HG23	1:C:82:ILE:O	2.04	0.58
1:C:574:LEU:HG	1:C:576:PHE:HE1	1.68	0.58
1:C:656:ILE:HG21	1:C:687:LEU:HD12	1.86	0.58
1:A:599:ARG:HG2	1:B:552:PHE:CD1	2.38	0.58
1:A:642:LEU:HD22	1:A:642:LEU:N	2.19	0.58
1:B:153:LEU:HD13	1:B:162:GLU:HG2	1.84	0.58
1:B:173:TYR:O	1:B:173:TYR:HD1	1.87	0.58
1:B:632:ALA:HA	1:B:635:ARG:CD	2.34	0.58
1:C:632:ALA:HA	1:C:635:ARG:CD	2.34	0.58
1:A:155:ARG:HE	1:A:386:LYS:NZ	2.02	0.58
1:A:501:ASP:OD1	1:A:502:LYS:N	2.36	0.58
1:A:523:GLY:HA3	1:A:526:LEU:HD12	1.85	0.58
1:B:31:ALA:HB2	1:B:84:MET:C	2.29	0.58
1:C:220:VAL:HG12	1:C:342:ILE:HD13	1.85	0.58
1:C:635:ARG:HB3	1:C:635:ARG:HH11	1.69	0.58
1:A:213:LEU:HB3	1:A:217:LYS:HE3	1.85	0.58
1:B:158:MET:CE	1:B:419:ALA:HB1	2.34	0.58
1:B:170:PRO:HB2	1:B:174:CYS:CB	2.30	0.58
1:C:213:LEU:HB3	1:C:217:LYS:HE3	1.86	0.58
1:C:393:ASP:OD2	1:C:448:THR:HB	2.04	0.58
1:A:155:ARG:NE	1:A:386:LYS:HZ3	2.01	0.58
1:A:170:PRO:HB2	1:A:174:CYS:CB	2.32	0.58
1:A:524:LYS:HB2	3:A:915:AF3:F2	1.94	0.58
1:C:153:LEU:HD13	1:C:162:GLU:HG2	1.86	0.58
1:B:642:LEU:HD22	1:B:642:LEU:N	2.19	0.58
1:C:318:GLY:O	1:C:322:ARG:HG3	2.04	0.58
1:A:56:THR:HG22	1:A:70:ILE:CD1	2.34	0.57
1:A:632:ALA:HA	1:A:635:ARG:HD2	1.85	0.57
1:A:645:ILE:HD12	1:A:645:ILE:N	2.19	0.57
1:A:653:ARG:CZ	1:A:679:THR:O	2.51	0.57
1:B:135:LEU:HD22	1:B:135:LEU:N	2.19	0.57
1:B:147:ARG:CG	1:B:148:LYS:N	2.67	0.57
1:A:82:ILE:O	1:A:82:ILE:HG23	2.05	0.57
1:A:111:GLY:CA	1:A:170:PRO:HG2	2.30	0.57
1:A:201:VAL:HG12	1:A:202:GLY:N	2.18	0.57
1:B:141:GLU:HG2	1:B:178:PRO:HB3	1.84	0.57
1:B:206:ILE:HD11	1:B:213:LEU:CD1	2.29	0.57
1:B:512:LYS:HD3	1:B:637:GLY:O	2.04	0.57
1:B:393:ASP:OD2	1:B:448:THR:HB	2.05	0.57
1:C:36:ASN:OD1	1:C:87:VAL:HG21	2.04	0.57
1:C:482:LEU:HD13	1:C:646:PRO:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:580:ASP:O	1:B:583:ALA:N	2.38	0.57
1:A:495:TYR:HD1	1:B:703:ILE:HD13	1.68	0.57
1:B:521:GLY:HA3	1:B:685:ALA:CB	2.34	0.57
1:C:248:GLY:C	1:C:250:GLY:H	2.12	0.57
1:A:48:GLU:C	1:A:49:LEU:HD12	2.29	0.57
1:A:248:GLY:C	1:A:250:GLY:H	2.13	0.57
1:A:372:PRO:HD2	1:A:407:VAL:HA	1.85	0.57
1:A:427:MET:CB	1:A:431:ASP:HB2	2.34	0.57
1:C:227:PRO:HG2	1:C:298:PRO:HG2	1.86	0.57
1:C:445:LEU:HD23	1:C:445:LEU:C	2.28	0.57
1:C:632:ALA:HA	1:C:635:ARG:HD2	1.85	0.57
1:A:147:ARG:CG	1:A:148:LYS:N	2.68	0.57
1:A:520:PRO:HG3	1:A:624:ASN:CB	2.34	0.57
1:A:605:LEU:HD22	1:A:638:ARG:HH11	1.70	0.57
1:A:26:LEU:HD21	1:A:45:LYS:HZ3	1.67	0.57
1:A:227:PRO:HG2	1:A:298:PRO:HG2	1.87	0.57
1:A:465:ARG:NH1	1:A:465:ARG:CB	2.68	0.57
1:C:135:LEU:HD22	1:C:135:LEU:N	2.20	0.57
1:A:31:ALA:HB2	1:A:84:MET:C	2.30	0.57
1:A:141:GLU:HG2	1:A:178:PRO:HB3	1.85	0.57
1:A:316:THR:OG1	1:A:322:ARG:HG2	2.05	0.57
1:A:494:GLN:O	1:A:497:VAL:HG12	2.04	0.57
1:A:574:LEU:HG	1:A:576:PHE:CE1	2.40	0.57
1:B:632:ALA:HA	1:B:635:ARG:HD2	1.85	0.57
1:A:393:ASP:OD2	1:A:448:THR:HB	2.05	0.57
1:B:248:GLY:C	1:B:250:GLY:H	2.12	0.57
1:B:465:ARG:HB3	1:B:465:ARG:HH11	1.69	0.57
1:B:491:GLU:HG2	1:B:495:TYR:HE2	1.69	0.57
1:C:556:GLU:OE1	1:C:556:GLU:N	2.38	0.57
1:A:173:TYR:HD1	1:A:173:TYR:O	1.87	0.56
1:A:514:VAL:HG12	1:A:515:LEU:N	2.19	0.56
1:A:544:GLY:O	1:A:547:LEU:HB2	2.05	0.56
1:C:112:LYS:H	1:C:170:PRO:CD	2.18	0.56
1:C:605:LEU:HD22	1:C:638:ARG:HH11	1.69	0.56
1:C:574:LEU:HG	1:C:576:PHE:CE1	2.39	0.56
1:C:650:GLU:HA	1:C:653:ARG:NH2	2.20	0.56
1:A:36:ASN:OD1	1:A:87:VAL:HG21	2.05	0.56
1:A:89:ARG:NH1	1:A:261:GLU:OE2	2.37	0.56
1:B:306:LEU:HD22	1:B:345:ALA:HB1	1.87	0.56
1:C:31:ALA:HB2	1:C:84:MET:C	2.31	0.56
1:C:155:ARG:NE	1:C:386:LYS:HZ3	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:654:VAL:HG22	1:C:676:ALA:CB	2.35	0.56
1:A:464:LEU:HG	1:A:466:GLU:H	1.69	0.56
1:B:65:ARG:HH11	1:B:93:ARG:CZ	2.19	0.56
1:B:90:ASN:HD22	1:B:198:LEU:HD21	1.70	0.56
1:C:544:GLY:O	1:C:547:LEU:HB2	2.06	0.56
1:A:26:LEU:HD11	1:A:45:LYS:HE2	1.86	0.56
1:A:490:GLN:CD	1:A:494:GLN:NE2	2.62	0.56
1:B:460:ASN:N	1:B:461:PRO:CD	2.68	0.56
1:B:758:PHE:HB3	1:B:762:LEU:CD1	2.35	0.56
1:C:90:ASN:HD22	1:C:198:LEU:HD21	1.70	0.56
1:B:42:SER:OG	1:B:45:LYS:HB2	2.06	0.56
1:B:488:GLU:O	1:B:491:GLU:HB2	2.05	0.56
1:C:24:ASN:CG	1:C:25:ARG:N	2.64	0.56
1:C:173:TYR:O	1:C:173:TYR:HD1	1.87	0.56
1:C:503:PHE:HZ	1:C:509:THR:C	2.13	0.56
1:A:203:TYR:C	1:A:205:ASP:H	2.14	0.56
1:B:58:LEU:HD23	1:B:103:GLN:NE2	2.21	0.56
1:B:155:ARG:HD3	1:B:386:LYS:O	2.06	0.56
1:B:233:ILE:HD11	1:C:158:MET:SD	2.46	0.56
1:C:488:GLU:O	1:C:491:GLU:HB2	2.05	0.56
1:C:653:ARG:HD2	1:C:679:THR:O	2.05	0.56
1:A:682:PHE:CE1	1:A:745:ARG:HG2	2.41	0.56
1:B:635:ARG:HB3	1:B:635:ARG:HH11	1.69	0.56
1:C:28:VAL:HG13	1:C:97:GLY:H	1.70	0.56
1:B:544:GLY:O	1:B:547:LEU:HB2	2.06	0.56
1:B:729:PRO:C	1:B:730:GLU:CD	2.74	0.56
1:B:243:LEU:HB3	1:B:369:ILE:HD11	1.88	0.56
1:B:275:MET:SD	1:B:309:ILE:HG12	2.46	0.56
1:B:93:ARG:HG2	1:B:93:ARG:HH11	1.70	0.55
1:C:632:ALA:HA	1:C:635:ARG:HG3	1.88	0.55
1:A:427:MET:CG	1:A:431:ASP:CB	2.58	0.55
1:C:93:ARG:HH11	1:C:93:ARG:HG2	1.71	0.55
1:C:497:VAL:HG13	1:C:498:GLU:N	2.21	0.55
1:C:596:ALA:HB1	1:C:630:ASP:HA	1.88	0.55
1:A:405:GLY:HA3	1:A:465:ARG:HG2	1.88	0.55
1:A:488:GLU:O	1:A:491:GLU:HB2	2.06	0.55
1:B:605:LEU:HD22	1:B:638:ARG:HH11	1.70	0.55
1:C:62:LYS:HZ1	1:C:98:ASP:HB3	1.70	0.55
1:C:222:LEU:H	1:C:223:PRO:HD2	1.71	0.55
1:A:42:SER:OG	1:A:45:LYS:HB2	2.05	0.55
1:A:60:LYS:HG2	1:A:66:GLU:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:473:GLN:CD	1:A:473:GLN:H	2.14	0.55
1:A:632:ALA:HA	1:A:635:ARG:HG3	1.88	0.55
1:B:427:MET:HG3	1:B:432:LEU:HB2	1.88	0.55
1:C:42:SER:OG	1:C:45:LYS:HB2	2.06	0.55
1:C:274:ILE:HG22	1:C:274:ILE:O	2.07	0.55
1:A:93:ARG:HG2	1:A:93:ARG:HH11	1.70	0.55
1:A:432:LEU:O	1:A:432:LEU:HD12	2.07	0.55
1:C:23:PRO:O	1:C:49:LEU:HD21	2.07	0.55
1:C:177:ALA:HB1	1:C:178:PRO:HD2	1.89	0.55
1:C:733:ARG:HB2	1:C:733:ARG:HH11	1.72	0.55
1:B:697:LEU:O	1:B:697:LEU:HD13	2.07	0.55
1:C:158:MET:CE	1:C:419:ALA:HB1	2.36	0.55
1:C:482:LEU:CD1	1:C:646:PRO:HD2	2.37	0.55
1:C:494:GLN:O	1:C:497:VAL:HG12	2.07	0.55
1:C:579:LEU:HD23	1:C:579:LEU:C	2.32	0.55
1:A:224:LEU:CD2	1:A:300:ILE:HD11	2.31	0.55
1:A:465:ARG:HH11	1:A:465:ARG:CB	2.19	0.55
1:B:26:LEU:HD21	1:B:45:LYS:HZ1	1.72	0.55
1:C:151:ILE:HD11	1:C:195:GLU:OE2	2.07	0.55
1:C:466:GLU:HG2	1:C:467:THR:HG23	1.87	0.55
1:B:82:ILE:HG23	1:B:82:ILE:O	2.06	0.55
1:A:353:ILE:HG22	1:A:354:ASP:N	2.18	0.55
1:B:502:LYS:HZ2	1:C:703:ILE:HG12	1.72	0.55
1:C:94:VAL:HG23	1:C:94:VAL:O	2.07	0.55
1:C:536:GLN:HG2	1:C:536:GLN:O	2.06	0.55
1:C:599:ARG:HH11	1:C:599:ARG:CB	2.19	0.55
1:C:654:VAL:HG22	1:C:676:ALA:HB1	1.89	0.55
1:A:251:LYS:HG3	2:A:807:ADP:O2B	2.06	0.55
1:A:684:GLY:HA3	2:A:900:ADP:C8	2.42	0.55
1:B:111:GLY:CA	1:B:170:PRO:HG2	2.32	0.55
1:B:227:PRO:HG2	1:B:298:PRO:HG2	1.89	0.55
1:C:147:ARG:CG	1:C:148:LYS:N	2.70	0.55
1:A:184:CYS:C	1:A:186:GLY:H	2.14	0.54
1:A:427:MET:O	1:A:431:ASP:N	2.38	0.54
1:B:26:LEU:HD21	1:B:45:LYS:HZ3	1.71	0.54
1:B:733:ARG:HB2	1:B:733:ARG:HH11	1.72	0.54
1:C:353:ILE:HG22	1:C:354:ASP:N	2.17	0.54
1:C:492:LEU:O	1:C:496:PRO:HG3	2.07	0.54
1:B:493:VAL:HG21	1:B:531:ILE:HD11	1.90	0.54
1:C:25:ARG:HA	1:C:100:ILE:O	2.07	0.54
1:A:502:LYS:HA	1:A:505:LYS:CD	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:LYS:H	1:B:170:PRO:CD	2.20	0.54
1:B:493:VAL:HG23	1:B:494:GLN:N	2.21	0.54
1:B:590:ILE:HG13	1:B:591:GLY:N	2.17	0.54
1:A:438:ASP:OD2	1:A:440:GLU:HB2	2.07	0.54
1:B:222:LEU:H	1:B:223:PRO:HD2	1.71	0.54
1:B:332:MET:C	1:B:334:GLY:H	2.15	0.54
1:B:600:VAL:O	1:B:604:ILE:HG13	2.07	0.54
1:C:243:LEU:HB3	1:C:369:ILE:HD11	1.89	0.54
1:C:521:GLY:HA3	1:C:683:SER:OG	2.07	0.54
1:A:135:LEU:N	1:A:135:LEU:HD22	2.22	0.54
1:A:222:LEU:H	1:A:223:PRO:HD2	1.72	0.54
1:A:582:ILE:HG21	1:A:598:ASP:CG	2.32	0.54
1:B:66:GLU:HB2	1:B:147:ARG:NH1	2.23	0.54
1:C:464:LEU:CD1	1:C:466:GLU:CB	2.79	0.54
1:A:697:LEU:O	1:A:697:LEU:HD13	2.08	0.54
1:A:733:ARG:HB2	1:A:733:ARG:HH11	1.72	0.54
1:B:184:CYS:C	1:B:186:GLY:H	2.15	0.54
1:C:56:THR:HG22	1:C:70:ILE:CD1	2.38	0.54
1:A:112:LYS:H	1:A:170:PRO:CD	2.20	0.54
1:A:306:LEU:HD22	1:A:345:ALA:CB	2.37	0.54
1:A:556:GLU:OE1	1:A:556:GLU:N	2.39	0.54
1:A:599:ARG:HH11	1:A:599:ARG:CB	2.19	0.54
1:B:312:LYS:H	1:B:354:ASP:CB	2.16	0.54
1:B:524:LYS:NZ	1:B:524:LYS:CB	2.71	0.54
1:B:582:ILE:CD1	1:B:600:VAL:HB	2.37	0.54
1:C:111:GLY:CA	1:C:174:CYS:HB2	2.37	0.54
1:C:605:LEU:HD22	1:C:638:ARG:NH1	2.23	0.54
1:A:210:ARG:HD2	1:A:210:ARG:N	2.22	0.54
1:B:155:ARG:HE	1:B:386:LYS:NZ	2.05	0.54
1:B:274:ILE:O	1:B:274:ILE:HG22	2.08	0.54
1:C:332:MET:C	1:C:334:GLY:H	2.15	0.54
1:C:656:ILE:HG12	2:C:900:ADP:N1	2.22	0.54
1:A:89:ARG:NH2	1:A:96:LEU:HD21	2.23	0.54
1:A:359:ARG:C	1:A:361:GLY:H	2.16	0.54
1:A:399:VAL:C	1:A:401:ASN:H	2.16	0.54
1:A:567:ARG:C	1:A:569:ALA:H	2.15	0.54
1:B:28:VAL:HG13	1:B:97:GLY:H	1.73	0.54
1:B:48:GLU:C	1:B:49:LEU:HD12	2.31	0.54
1:B:77:CYS:HB2	1:B:83:ARG:HE	1.72	0.54
1:B:409:ALA:O	1:B:412:ALA:HB3	2.08	0.54
1:C:48:GLU:C	1:C:49:LEU:HD12	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:313:ARG:HD2	1:C:351:ASN:O	2.08	0.54
1:C:359:ARG:C	1:C:361:GLY:H	2.15	0.54
1:C:586:ARG:HD2	1:C:598:ASP:OD2	2.07	0.54
1:B:599:ARG:HH11	1:B:599:ARG:CB	2.20	0.54
1:C:184:CYS:O	1:C:186:GLY:N	2.41	0.54
1:B:92:LEU:HB2	1:B:94:VAL:HG22	1.89	0.53
1:B:432:LEU:HD12	1:B:432:LEU:N	2.22	0.53
1:B:515:LEU:HD23	1:B:515:LEU:C	2.34	0.53
1:B:582:ILE:CD1	1:B:601:ILE:HG12	2.36	0.53
1:B:661:LEU:HD21	1:B:691:CYS:SG	2.48	0.53
1:C:89:ARG:HE	1:C:96:LEU:CD2	2.12	0.53
1:C:113:ARG:NH2	1:C:183:HIS:CE1	2.75	0.53
1:A:409:ALA:O	1:A:412:ALA:HB3	2.09	0.53
1:B:650:GLU:HA	1:B:653:ARG:NH2	2.23	0.53
1:C:60:LYS:CE	1:C:103:GLN:HE22	2.19	0.53
1:A:114:ILE:HG22	1:A:116:VAL:HG13	1.90	0.53
1:A:243:LEU:HB3	1:A:369:ILE:HD11	1.89	0.53
1:B:317:HIS:NE2	1:C:317:HIS:CE1	2.76	0.53
1:B:632:ALA:HA	1:B:635:ARG:HG3	1.88	0.53
1:B:650:GLU:CD	1:B:650:GLU:H	2.16	0.53
1:C:26:LEU:HD21	1:C:45:LYS:HE2	1.91	0.53
1:A:332:MET:C	1:A:334:GLY:H	2.16	0.53
1:B:225:ARG:C	1:B:227:PRO:HD3	2.34	0.53
1:C:196:GLU:HB3	1:C:200:GLU:OE1	2.08	0.53
1:B:224:LEU:CD2	1:B:300:ILE:HD11	2.38	0.53
1:B:358:ARG:HH11	1:B:358:ARG:HG3	1.74	0.53
1:B:359:ARG:C	1:B:361:GLY:H	2.16	0.53
1:B:399:VAL:C	1:B:401:ASN:H	2.17	0.53
1:C:309:ILE:C	1:C:311:PRO:CD	2.79	0.53
1:C:399:VAL:C	1:C:401:ASN:H	2.16	0.53
1:A:113:ARG:HG2	1:A:113:ARG:NH1	2.24	0.53
1:A:358:ARG:HH11	1:A:358:ARG:HG3	1.74	0.53
1:B:736:PHE:O	1:B:739:ALA:HB3	2.09	0.53
1:C:114:ILE:HG22	1:C:116:VAL:HG13	1.90	0.53
1:A:203:TYR:CE2	1:A:261:GLU:HG2	2.43	0.53
1:A:233:ILE:HG13	1:A:235:VAL:HG23	1.91	0.53
1:A:233:ILE:HD13	1:B:442:MET:HE1	1.91	0.53
1:B:540:ILE:HG13	1:B:572:CYS:SG	2.49	0.53
1:B:556:GLU:OE1	1:B:556:GLU:N	2.39	0.53
1:B:584:LYS:NZ	1:B:625:ARG:HG3	2.20	0.53
1:C:472:PRO:HG2	1:C:532:ALA:CB	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:ARG:CB	1:A:225:ARG:HH12	2.22	0.53
1:A:316:THR:C	1:A:318:GLY:H	2.17	0.53
1:A:460:ASN:N	1:A:461:PRO:CD	2.72	0.53
1:A:476:TRP:HE1	1:A:534:GLU:HB2	1.71	0.53
1:B:518:GLY:O	1:B:755:TYR:HE2	1.92	0.53
1:C:752:ILE:O	1:C:756:GLU:HG2	2.09	0.53
1:A:206:ILE:HD13	1:A:213:LEU:HD21	1.87	0.53
1:A:216:ILE:HA	1:A:219:MET:CE	2.39	0.53
1:A:605:LEU:HD22	1:A:638:ARG:NH1	2.24	0.53
1:A:654:VAL:HG22	1:A:676:ALA:CB	2.39	0.53
1:A:736:PHE:O	1:A:739:ALA:HB3	2.09	0.53
1:C:58:LEU:HD23	1:C:103:GLN:NE2	2.23	0.53
1:C:697:LEU:HD13	1:C:697:LEU:O	2.09	0.53
1:A:66:GLU:HB2	1:A:147:ARG:CZ	2.36	0.53
1:A:92:LEU:HB2	1:A:94:VAL:HG22	1.90	0.53
1:A:259:ALA:HB2	1:A:300:ILE:HD12	1.90	0.53
1:A:317:HIS:CE1	1:B:317:HIS:CE1	2.97	0.53
1:B:63:LYS:HD2	1:B:93:ARG:HD2	1.90	0.53
1:B:69:CYS:O	1:B:70:ILE:HD13	2.09	0.53
1:B:210:ARG:HD2	1:B:210:ARG:N	2.23	0.53
1:B:506:PHE:CE2	1:C:699:ILE:HG12	2.43	0.53
1:A:253:LEU:HD23	1:A:253:LEU:C	2.35	0.52
1:A:274:ILE:HG22	1:A:274:ILE:O	2.09	0.52
1:A:570:ALA:HA	1:A:571:PRO:C	2.33	0.52
2:B:900:ADP:O1B	3:B:915:AF3:F3	2.18	0.52
1:C:53:ARG:NH1	1:C:73:SER:OG	2.42	0.52
1:A:151:ILE:HD11	1:A:195:GLU:OE2	2.10	0.52
1:A:225:ARG:C	1:A:227:PRO:HD3	2.34	0.52
1:A:316:THR:HG23	1:A:316:THR:O	2.10	0.52
1:B:155:ARG:NE	1:B:386:LYS:HZ3	2.07	0.52
1:B:473:GLN:H	1:B:473:GLN:CD	2.17	0.52
1:B:579:LEU:HD22	1:B:629:ILE:HD12	1.91	0.52
1:C:28:VAL:HG22	1:C:96:LEU:HD22	1.91	0.52
1:C:251:LYS:HG3	2:C:807:ADP:O2B	2.07	0.52
1:C:518:GLY:C	1:C:755:TYR:HE2	2.17	0.52
1:A:290:PHE:CD1	1:A:301:ILE:HD13	2.44	0.52
1:B:650:GLU:CD	1:B:650:GLU:N	2.68	0.52
1:C:312:LYS:HD3	1:C:354:ASP:OD2	2.09	0.52
1:C:316:THR:HG23	1:C:316:THR:O	2.09	0.52
1:C:728:VAL:N	1:C:729:PRO:CD	2.72	0.52
1:A:177:ALA:O	1:A:179:ASP:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:465:ARG:NH1	1:A:465:ARG:HB2	2.25	0.52
1:B:605:LEU:HD22	1:B:638:ARG:NH1	2.25	0.52
1:B:758:PHE:C	1:B:762:LEU:HG	2.34	0.52
1:C:69:CYS:O	1:C:70:ILE:HD13	2.09	0.52
1:C:501:ASP:CG	1:C:502:LYS:HD2	2.34	0.52
1:A:27:ILE:HG13	1:B:429:LEU:CD2	2.38	0.52
1:A:58:LEU:HD23	1:A:103:GLN:NE2	2.24	0.52
1:A:427:MET:CA	1:A:431:ASP:HB2	2.39	0.52
1:A:519:PRO:HA	1:A:755:TYR:HE2	1.74	0.52
1:A:526:LEU:CD1	2:A:900:ADP:H2'	2.29	0.52
1:A:686:ASP:O	1:A:689:GLU:HB3	2.10	0.52
1:B:575:PHE:HA	1:B:620:ILE:O	2.10	0.52
1:A:203:TYR:CE2	1:A:217:LYS:HE2	2.44	0.52
1:A:514:VAL:HG23	1:A:618:PHE:CZ	2.42	0.52
1:B:310:ALA:N	1:B:311:PRO:CD	2.73	0.52
1:C:26:LEU:HD21	1:C:45:LYS:CE	2.40	0.52
1:C:155:ARG:HE	1:C:386:LYS:HZ3	1.58	0.52
1:C:206:ILE:CD1	1:C:213:LEU:CD2	2.79	0.52
1:C:659:ALA:C	1:C:661:LEU:H	2.18	0.52
1:C:736:PHE:O	1:C:739:ALA:HB3	2.09	0.52
1:A:28:VAL:HG13	1:A:97:GLY:H	1.75	0.52
1:A:422:ALA:O	1:A:426:LYS:HG2	2.10	0.52
1:A:464:LEU:CD1	1:A:466:GLU:HB2	2.16	0.52
1:A:569:ALA:O	1:A:572:CYS:HB2	2.10	0.52
1:B:151:ILE:HD11	1:B:195:GLU:OE2	2.10	0.52
1:B:656:ILE:HG21	1:B:687:LEU:HD12	1.92	0.52
1:C:62:LYS:HZ3	1:C:98:ASP:HB3	1.74	0.52
1:C:283:GLU:HB3	1:C:327:GLN:NE2	2.25	0.52
1:C:316:THR:OG1	1:C:322:ARG:HG2	2.10	0.52
1:A:252:THR:HG23	1:A:302:PHE:CE2	2.45	0.52
1:A:283:GLU:HB3	1:A:327:GLN:NE2	2.25	0.52
1:B:113:ARG:HG2	1:B:113:ARG:NH1	2.25	0.52
1:B:253:LEU:C	1:B:253:LEU:HD23	2.35	0.52
1:B:508:MET:HE2	1:B:509:THR:O	2.10	0.52
1:B:516:PHE:O	1:B:622:ALA:HA	2.10	0.52
1:B:686:ASP:O	1:B:689:GLU:HB3	2.09	0.52
1:C:177:ALA:O	1:C:179:ASP:N	2.42	0.52
1:C:409:ALA:O	1:C:412:ALA:HB3	2.09	0.52
1:A:111:GLY:CA	1:A:174:CYS:HB2	2.39	0.52
1:A:155:ARG:HD3	1:A:386:LYS:O	2.09	0.52
1:A:512:LYS:CE	1:A:611:MET:HE3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:459:SER:C	1:B:461:PRO:HD2	2.35	0.52
1:B:521:GLY:CA	1:B:685:ALA:HB2	2.39	0.52
1:C:210:ARG:NH2	1:C:375:THR:HG22	2.25	0.52
1:A:171:SER:OG	1:A:172:PRO:HA	2.09	0.52
1:A:473:GLN:N	1:A:473:GLN:OE1	2.42	0.52
1:A:502:LYS:HA	1:A:505:LYS:CG	2.40	0.52
1:A:567:ARG:HH22	1:A:611:MET:HG2	1.75	0.52
1:B:94:VAL:HG23	1:B:94:VAL:O	2.08	0.52
1:B:640:ASP:OD1	1:B:641:GLN:HG2	2.10	0.52
1:C:225:ARG:C	1:C:227:PRO:HD3	2.34	0.52
1:C:513:GLY:HA3	1:C:619:ILE:O	2.10	0.52
1:C:686:ASP:O	1:C:689:GLU:HB3	2.10	0.52
1:B:114:ILE:HG22	1:B:116:VAL:HG13	1.92	0.51
1:C:422:ALA:O	1:C:426:LYS:HG2	2.09	0.51
1:C:465:ARG:HB3	1:C:465:ARG:HH11	1.74	0.51
1:C:758:PHE:HB3	1:C:762:LEU:HD11	1.90	0.51
1:A:94:VAL:O	1:A:94:VAL:HG23	2.10	0.51
1:A:269:ILE:HD12	1:A:303:ILE:HG22	1.93	0.51
1:A:644:TYR:CE2	1:A:646:PRO:HB3	2.44	0.51
1:C:290:PHE:CD1	1:C:301:ILE:CD1	2.94	0.51
1:C:313:ARG:HG2	1:C:314:GLU:HG2	1.92	0.51
1:C:689:GLU:O	1:C:693:ARG:HG3	2.11	0.51
1:A:502:LYS:HA	1:A:505:LYS:HG3	1.92	0.51
1:A:752:ILE:O	1:A:756:GLU:HG2	2.10	0.51
1:B:56:THR:HG22	1:B:70:ILE:HD12	1.92	0.51
1:B:752:ILE:O	1:B:756:GLU:HG2	2.10	0.51
1:C:216:ILE:HA	1:C:219:MET:CE	2.41	0.51
1:C:243:LEU:HD12	1:C:243:LEU:N	2.25	0.51
1:C:290:PHE:CD1	1:C:301:ILE:HD13	2.46	0.51
1:C:310:ALA:N	1:C:311:PRO:CD	2.73	0.51
1:A:42:SER:HB3	1:A:77:CYS:O	2.10	0.51
1:B:283:GLU:HB3	1:B:327:GLN:NE2	2.26	0.51
1:C:42:SER:HB3	1:C:77:CYS:O	2.10	0.51
1:C:253:LEU:HD23	1:C:253:LEU:C	2.35	0.51
1:C:325:VAL:HG12	1:C:329:LEU:CD1	2.41	0.51
1:C:438:ASP:HB3	1:C:441:VAL:HG23	1.93	0.51
1:A:579:LEU:HD23	1:A:579:LEU:C	2.36	0.51
1:A:600:VAL:O	1:A:604:ILE:HG13	2.11	0.51
1:B:43:GLN:N	1:B:44:PRO:HD2	2.26	0.51
1:B:307:ASP:O	1:B:311:PRO:HD3	2.11	0.51
1:B:613:THR:HG23	1:B:614:LYS:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:210:ARG:HD2	1:C:210:ARG:N	2.25	0.51
1:C:250:GLY:HA2	2:C:807:ADP:O3A	2.10	0.51
1:C:413:ALA:O	1:C:416:SER:HB2	2.10	0.51
1:C:473:GLN:H	1:C:473:GLN:CD	2.18	0.51
1:A:35:ASP:C	1:A:37:SER:H	2.18	0.51
1:A:644:TYR:C	1:A:645:ILE:HD12	2.36	0.51
1:B:327:GLN:O	1:B:331:LEU:HG	2.09	0.51
1:B:422:ALA:O	1:B:426:LYS:HG2	2.10	0.51
1:B:494:GLN:NE2	1:B:534:GLU:HG3	2.25	0.51
1:B:689:GLU:O	1:B:693:ARG:HG3	2.11	0.51
1:C:63:LYS:HD2	1:C:93:ARG:CD	2.40	0.51
1:C:92:LEU:HB2	1:C:94:VAL:HG22	1.91	0.51
1:C:521:GLY:HA2	1:C:685:ALA:CB	2.37	0.51
1:A:21:ASN:CB	1:A:25:ARG:HH21	2.19	0.51
1:A:43:GLN:N	1:A:44:PRO:HD2	2.26	0.51
1:A:303:ILE:HG12	1:A:344:MET:O	2.11	0.51
1:A:493:VAL:HG23	1:A:494:GLN:N	2.26	0.51
1:B:216:ILE:HA	1:B:219:MET:CE	2.40	0.51
1:B:413:ALA:O	1:B:416:SER:HB2	2.11	0.51
1:B:564:ASP:HA	1:B:567:ARG:HH12	1.76	0.51
1:B:580:ASP:O	1:B:581:SER:C	2.53	0.51
1:C:327:GLN:O	1:C:331:LEU:HG	2.11	0.51
1:C:522:CYS:HB2	3:C:915:AF3:F3	2.01	0.51
1:C:587:GLY:HA3	1:C:591:GLY:CA	2.41	0.51
1:A:53:ARG:NH1	1:A:73:SER:OG	2.43	0.51
1:A:113:ARG:NH2	1:A:183:HIS:CE1	2.77	0.51
1:B:319:GLU:OE2	1:C:320:VAL:HG11	2.11	0.51
1:A:147:ARG:HB3	1:A:150:ASP:OD2	2.11	0.51
1:A:495:TYR:N	1:A:496:PRO:HD2	2.26	0.51
1:A:613:THR:HG23	1:A:614:LYS:N	2.26	0.51
1:B:177:ALA:O	1:B:179:ASP:N	2.44	0.51
1:A:512:LYS:NZ	1:A:608:MET:O	2.43	0.51
1:A:519:PRO:CD	1:A:755:TYR:HD2	2.22	0.51
1:B:86:ARG:O	1:B:89:ARG:HB3	2.11	0.51
1:B:111:GLY:CA	1:B:174:CYS:HB2	2.40	0.51
1:B:196:GLU:HB3	1:B:200:GLU:OE1	2.10	0.51
1:B:243:LEU:HD12	1:B:243:LEU:N	2.26	0.51
1:B:491:GLU:HG2	1:B:495:TYR:CE2	2.45	0.51
1:B:499:HIS:N	1:B:500:PRO:CD	2.74	0.51
1:B:682:PHE:CE1	1:B:745:ARG:HG2	2.46	0.51
1:C:77:CYS:HB2	1:C:83:ARG:HE	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:ARG:NH2	1:C:195:GLU:HG2	2.26	0.51
1:C:491:GLU:HG2	1:C:495:TYR:CE2	2.46	0.51
1:A:660:ASN:HD21	1:A:688:THR:HG23	1.75	0.50
1:B:93:ARG:NH1	1:B:93:ARG:HG2	2.26	0.50
1:B:147:ARG:HB3	1:B:150:ASP:OD2	2.11	0.50
1:B:502:LYS:CD	1:C:703:ILE:HG12	2.41	0.50
1:B:654:VAL:HG22	1:B:676:ALA:CB	2.41	0.50
1:B:758:PHE:HB3	1:B:762:LEU:CG	2.41	0.50
1:A:327:GLN:O	1:A:331:LEU:HG	2.11	0.50
1:A:413:ALA:O	1:A:416:SER:HB2	2.11	0.50
1:B:53:ARG:NH1	1:B:73:SER:OG	2.44	0.50
1:C:24:ASN:CG	1:C:25:ARG:H	2.19	0.50
1:C:147:ARG:HB3	1:C:150:ASP:OD2	2.11	0.50
1:C:408:GLY:HA3	2:C:807:ADP:N7	2.26	0.50
1:C:413:ALA:HA	1:C:416:SER:OG	2.11	0.50
1:C:555:SER:C	1:C:557:ALA:H	2.18	0.50
1:A:411:LEU:O	1:A:414:LEU:HB3	2.12	0.50
1:A:438:ASP:HB3	1:A:441:VAL:HG23	1.93	0.50
1:A:730:GLU:CD	1:A:730:GLU:N	2.69	0.50
1:B:110:TYR:H	1:B:110:TYR:HD1	1.58	0.50
1:B:479:ILE:N	1:B:479:ILE:CD1	2.74	0.50
1:B:524:LYS:HE3	3:B:915:AF3:F2	2.01	0.50
1:B:584:LYS:NZ	1:B:625:ARG:CG	2.74	0.50
1:C:659:ALA:HA	1:C:662:ARG:CG	2.40	0.50
1:A:41:LEU:HD23	1:A:82:ILE:HA	1.93	0.50
1:A:77:CYS:HB2	1:A:83:ARG:HE	1.76	0.50
1:B:145:PRO:HB3	1:B:175:ILE:HG12	1.92	0.50
1:B:171:SER:OG	1:B:172:PRO:HA	2.11	0.50
1:B:206:ILE:CD1	1:B:213:LEU:CD2	2.81	0.50
1:B:206:ILE:HD13	1:B:213:LEU:HD21	1.89	0.50
1:B:413:ALA:HA	1:B:416:SER:OG	2.12	0.50
1:C:131:PHE:O	1:C:136:LYS:HB2	2.12	0.50
1:C:514:VAL:HG11	1:C:643:ILE:HD12	1.93	0.50
1:A:449:MET:HE3	1:A:453:ARG:HH21	1.77	0.50
1:A:502:LYS:HA	1:A:505:LYS:HD2	1.93	0.50
1:A:523:GLY:O	1:A:526:LEU:HB2	2.11	0.50
1:A:615:LYS:HZ2	1:B:460:ASN:CG	2.19	0.50
1:A:695:CYS:C	1:A:697:LEU:N	2.69	0.50
1:B:758:PHE:O	1:B:762:LEU:HG	2.10	0.50
1:C:640:ASP:OD1	1:C:641:GLN:HG2	2.12	0.50
1:A:209:CYS:HB3	1:A:212:GLN:CB	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:614:LYS:HD3	1:B:402:GLU:HB2	1.91	0.50
1:B:113:ARG:NH2	1:B:183:HIS:CE1	2.77	0.50
1:B:542:ILE:HG23	1:B:546:GLU:OE1	2.11	0.50
1:C:233:ILE:HG13	1:C:235:VAL:HG23	1.93	0.50
1:C:347:THR:HG21	1:C:353:ILE:HD11	1.93	0.50
1:C:600:VAL:O	1:C:604:ILE:HG13	2.11	0.50
1:C:613:THR:HG23	1:C:614:LYS:N	2.26	0.50
1:A:93:ARG:HG2	1:A:93:ARG:NH1	2.27	0.50
1:A:580:ASP:CG	1:A:625:ARG:HB2	2.36	0.50
1:B:325:VAL:HG12	1:B:329:LEU:CD1	2.42	0.50
1:C:512:LYS:NZ	1:C:608:MET:O	2.44	0.50
1:C:695:CYS:C	1:C:697:LEU:N	2.70	0.50
1:A:468:VAL:HG12	1:A:470:GLU:H	1.77	0.50
1:A:640:ASP:OD1	1:A:641:GLN:HG2	2.11	0.50
1:A:728:VAL:O	1:A:728:VAL:HG12	2.12	0.50
1:B:35:ASP:C	1:B:37:SER:H	2.19	0.50
1:B:502:LYS:HA	1:B:505:LYS:CG	2.42	0.50
1:B:651:LYS:O	1:B:654:VAL:HB	2.12	0.50
1:B:688:THR:O	1:B:691:CYS:HB2	2.12	0.50
2:B:900:ADP:O3B	3:B:915:AF3:F1	2.20	0.50
1:C:358:ARG:HH11	1:C:358:ARG:HG3	1.76	0.50
1:A:69:CYS:O	1:A:70:ILE:HD13	2.12	0.50
1:A:196:GLU:HB3	1:A:200:GLU:OE1	2.11	0.50
1:B:232:ALA:O	1:B:233:ILE:HB	2.11	0.50
1:B:411:LEU:O	1:B:414:LEU:HB3	2.12	0.50
1:C:35:ASP:C	1:C:37:SER:H	2.20	0.50
1:B:206:ILE:HG13	1:B:206:ILE:O	2.11	0.49
1:C:43:GLN:N	1:C:44:PRO:HD2	2.27	0.49
1:C:206:ILE:HD13	1:C:213:LEU:HD21	1.88	0.49
1:C:306:LEU:HD22	1:C:345:ALA:HB1	1.94	0.49
1:A:459:SER:C	1:A:461:PRO:HD2	2.37	0.49
1:A:502:LYS:O	1:A:505:LYS:HB2	2.13	0.49
1:A:508:MET:HE1	1:B:696:LYS:HE3	1.93	0.49
1:A:527:LEU:O	1:A:531:ILE:HG22	2.12	0.49
1:B:284:SER:HA	1:B:287:ARG:HB2	1.94	0.49
1:C:627:ASP:HB3	1:C:758:PHE:CZ	2.47	0.49
1:C:728:VAL:N	1:C:729:PRO:HD3	2.27	0.49
1:A:251:LYS:H	2:A:807:ADP:PB	2.35	0.49
1:B:269:ILE:HD12	1:B:303:ILE:CG2	2.43	0.49
1:B:347:THR:OG1	1:B:348:ASN:N	2.45	0.49
1:B:438:ASP:HB3	1:B:441:VAL:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:449:MET:HE3	1:B:453:ARG:HH21	1.77	0.49
1:B:547:LEU:HD23	1:B:550:MET:HE3	1.95	0.49
1:B:728:VAL:N	1:B:729:PRO:HD3	2.27	0.49
1:C:113:ARG:H	1:C:169:ASP:HB3	1.77	0.49
1:C:491:GLU:HA	1:C:495:TYR:HE2	1.73	0.49
1:C:682:PHE:CE1	1:C:745:ARG:HG2	2.47	0.49
1:A:197:SER:C	1:A:199:ASN:H	2.19	0.49
1:A:666:VAL:HG23	1:A:666:VAL:O	2.13	0.49
1:A:688:THR:O	1:A:691:CYS:HB2	2.12	0.49
1:B:113:ARG:H	1:B:169:ASP:HB3	1.77	0.49
1:B:555:SER:C	1:B:557:ALA:H	2.18	0.49
1:B:556:GLU:O	1:B:559:VAL:HB	2.12	0.49
1:C:145:PRO:HB3	1:C:175:ILE:HG12	1.93	0.49
1:C:206:ILE:O	1:C:206:ILE:HG13	2.12	0.49
1:C:368:ASP:HB2	1:C:568:GLN:CD	2.37	0.49
1:A:284:SER:HA	1:A:287:ARG:HB2	1.95	0.49
1:A:313:ARG:CG	1:A:314:GLU:N	2.76	0.49
1:A:413:ALA:HA	1:A:416:SER:OG	2.12	0.49
1:A:492:LEU:C	1:A:496:PRO:HG3	2.37	0.49
1:B:197:SER:C	1:B:199:ASN:H	2.21	0.49
1:B:250:GLY:HA2	2:B:807:ADP:O3A	2.13	0.49
1:B:464:LEU:CD1	1:B:466:GLU:HB2	2.32	0.49
1:C:311:PRO:C	1:C:313:ARG:H	2.19	0.49
1:C:347:THR:OG1	1:C:348:ASN:N	2.45	0.49
1:A:155:ARG:HE	1:A:386:LYS:HZ3	1.59	0.49
1:A:243:LEU:HD12	1:A:243:LEU:N	2.27	0.49
1:A:312:LYS:HB3	1:A:354:ASP:OD2	2.12	0.49
1:A:347:THR:OG1	1:A:348:ASN:N	2.46	0.49
1:A:635:ARG:HH11	1:A:635:ARG:CB	2.25	0.49
1:B:114:ILE:HA	1:B:168:THR:HG22	1.94	0.49
1:B:184:CYS:O	1:B:186:GLY:N	2.46	0.49
1:B:465:ARG:HB3	1:B:465:ARG:NH1	2.28	0.49
1:C:93:ARG:HG2	1:C:93:ARG:NH1	2.27	0.49
1:C:520:PRO:HD3	1:C:624:ASN:HB2	1.93	0.49
1:C:542:ILE:HG23	1:C:546:GLU:OE1	2.11	0.49
1:C:729:PRO:C	1:C:730:GLU:CD	2.81	0.49
1:C:733:ARG:HH11	1:C:733:ARG:CB	2.26	0.49
1:A:114:ILE:HA	1:A:168:THR:HG22	1.95	0.49
1:A:325:VAL:HG12	1:A:329:LEU:CD1	2.43	0.49
1:A:399:VAL:C	1:A:401:ASN:N	2.70	0.49
1:B:177:ALA:HB1	1:B:178:PRO:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:564:ASP:HA	1:B:567:ARG:NH1	2.27	0.49
1:C:184:CYS:C	1:C:186:GLY:N	2.68	0.49
1:C:284:SER:HA	1:C:287:ARG:HB2	1.95	0.49
1:A:184:CYS:O	1:A:186:GLY:N	2.46	0.49
1:A:542:ILE:HG23	1:A:546:GLU:OE1	2.13	0.49
1:A:648:PRO:CD	1:A:683:SER:HA	2.42	0.49
2:A:900:ADP:O3B	3:A:915:AF3:F1	2.20	0.49
1:B:48:GLU:HB3	1:B:49:LEU:HD12	1.95	0.49
1:B:89:ARG:NH2	1:B:96:LEU:HD21	2.27	0.49
1:B:397:GLU:O	1:B:401:ASN:ND2	2.45	0.49
1:B:579:LEU:C	1:B:579:LEU:CD2	2.86	0.49
1:B:699:ILE:O	1:B:702:SER:HB3	2.13	0.49
1:C:171:SER:OG	1:C:172:PRO:HA	2.12	0.49
1:C:325:VAL:HG12	1:C:329:LEU:HD11	1.95	0.49
1:C:700:ARG:O	1:C:704:GLU:HG3	2.13	0.49
1:A:28:VAL:HG23	1:A:84:MET:HG2	1.95	0.49
1:A:113:ARG:H	1:A:169:ASP:HB3	1.77	0.49
1:A:206:ILE:CD1	1:A:213:LEU:CD2	2.79	0.49
1:A:499:HIS:N	1:A:500:PRO:CD	2.76	0.49
1:A:508:MET:HE1	1:B:696:LYS:CE	2.42	0.49
1:B:95:ARG:HH22	1:B:196:GLU:CD	2.20	0.49
1:B:519:PRO:HG3	1:B:647:LEU:HD12	1.95	0.49
1:B:648:PRO:CD	1:B:683:SER:HA	2.42	0.49
1:B:695:CYS:C	1:B:697:LEU:N	2.69	0.49
1:B:706:GLU:HG2	1:B:707:ILE:N	2.28	0.49
1:C:197:SER:C	1:C:199:ASN:H	2.20	0.49
1:C:303:ILE:HD12	1:C:306:LEU:HD13	1.94	0.49
1:C:579:LEU:HD22	1:C:629:ILE:CD1	2.42	0.49
1:C:661:LEU:HD21	1:C:691:CYS:SG	2.53	0.49
1:A:177:ALA:C	1:A:179:ASP:N	2.71	0.49
1:A:323:ARG:NH2	1:B:279:ALA:HB2	2.26	0.49
1:A:647:LEU:N	1:A:647:LEU:HD12	2.28	0.49
1:B:28:VAL:HG23	1:B:84:MET:HG2	1.95	0.49
1:B:233:ILE:HG13	1:B:235:VAL:HG23	1.95	0.49
1:B:313:ARG:CG	1:B:314:GLU:H	2.26	0.49
1:B:359:ARG:O	1:B:361:GLY:N	2.46	0.49
1:C:359:ARG:O	1:C:361:GLY:N	2.46	0.49
1:C:499:HIS:ND1	1:C:502:LYS:HD3	2.27	0.49
1:A:86:ARG:O	1:A:89:ARG:HB3	2.13	0.48
1:A:206:ILE:HG13	1:A:206:ILE:O	2.12	0.48
1:A:519:PRO:HD3	1:A:755:TYR:CD2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:666:VAL:HG23	1:B:666:VAL:O	2.13	0.48
1:C:666:VAL:O	1:C:666:VAL:HG23	2.13	0.48
1:A:145:PRO:HB3	1:A:175:ILE:HG12	1.94	0.48
1:A:177:ALA:HB1	1:A:178:PRO:HD2	1.95	0.48
1:A:689:GLU:O	1:A:693:ARG:HG3	2.13	0.48
1:B:635:ARG:HH11	1:B:635:ARG:CB	2.25	0.48
1:C:113:ARG:HG2	1:C:113:ARG:NH1	2.24	0.48
1:C:397:GLU:O	1:C:401:ASN:ND2	2.45	0.48
1:C:547:LEU:HA	1:C:550:MET:HE3	1.95	0.48
1:C:657:LEU:HB2	1:C:672:LEU:HD13	1.95	0.48
1:C:751:ASP:O	1:C:752:ILE:C	2.56	0.48
1:A:56:THR:HG22	1:A:70:ILE:HD12	1.94	0.48
1:A:359:ARG:O	1:A:361:GLY:N	2.46	0.48
1:A:499:HIS:CD2	1:B:703:ILE:HD13	2.48	0.48
1:A:503:PHE:CE2	1:A:510:PRO:HG3	2.48	0.48
1:A:540:ILE:CD1	1:A:566:ALA:HA	2.43	0.48
1:B:177:ALA:C	1:B:179:ASP:N	2.71	0.48
1:B:283:GLU:OE1	1:B:283:GLU:N	2.47	0.48
1:B:312:LYS:N	1:B:354:ASP:HB2	2.19	0.48
1:B:353:ILE:HG22	1:B:354:ASP:N	2.20	0.48
1:B:427:MET:O	1:B:431:ASP:HA	2.13	0.48
1:B:455:ALA:O	1:B:458:GLN:HB3	2.13	0.48
1:B:515:LEU:HD13	1:B:634:LEU:HD21	1.94	0.48
1:C:411:LEU:O	1:C:414:LEU:HB3	2.13	0.48
1:C:449:MET:HE3	1:C:453:ARG:HH21	1.78	0.48
1:C:459:SER:C	1:C:461:PRO:CD	2.81	0.48
1:C:468:VAL:HG12	1:C:470:GLU:H	1.79	0.48
1:C:562:ILE:C	1:C:564:ASP:H	2.20	0.48
1:C:612:SER:OG	1:C:615:LYS:HB2	2.13	0.48
1:A:24:ASN:O	1:A:101:SER:HA	2.13	0.48
1:A:653:ARG:HH11	1:A:653:ARG:HG3	1.78	0.48
1:B:250:GLY:HA2	2:B:807:ADP:PA	2.54	0.48
1:C:547:LEU:HD23	1:C:550:MET:HE3	1.95	0.48
1:A:126:ILE:HG23	1:A:159:ARG:CZ	2.44	0.48
1:A:427:MET:CE	1:A:437:ILE:CD1	2.91	0.48
1:A:490:GLN:HA	1:A:493:VAL:HG22	1.95	0.48
1:A:555:SER:C	1:A:557:ALA:H	2.18	0.48
1:A:697:LEU:O	1:A:701:GLU:HG2	2.13	0.48
1:B:347:THR:HG21	1:B:353:ILE:HD11	1.95	0.48
1:B:399:VAL:C	1:B:401:ASN:N	2.71	0.48
1:B:508:MET:SD	1:C:695:CYS:HB3	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:620:ILE:HG22	1:B:621:GLY:N	2.29	0.48
1:B:653:ARG:NE	1:B:679:THR:O	2.47	0.48
1:C:41:LEU:HD23	1:C:82:ILE:HA	1.96	0.48
1:C:86:ARG:O	1:C:89:ARG:HB3	2.13	0.48
1:C:455:ALA:O	1:C:458:GLN:HB3	2.13	0.48
1:C:493:VAL:HG23	1:C:494:GLN:N	2.27	0.48
1:C:635:ARG:HH11	1:C:635:ARG:CB	2.26	0.48
1:C:688:THR:O	1:C:691:CYS:HB2	2.13	0.48
1:A:110:TYR:H	1:A:110:TYR:HD1	1.57	0.48
1:A:397:GLU:O	1:A:401:ASN:ND2	2.46	0.48
1:A:562:ILE:C	1:A:564:ASP:N	2.71	0.48
1:A:567:ARG:HB2	1:A:567:ARG:CZ	2.43	0.48
1:B:60:LYS:HD2	1:B:101:SER:OG	2.14	0.48
2:B:900:ADP:O2B	3:B:915:AF3:F1	2.21	0.48
1:C:571:PRO:HA	1:C:616:ASN:OD1	2.14	0.48
1:A:94:VAL:HG21	1:A:100:ILE:CD1	2.34	0.48
1:A:328:LEU:O	1:A:329:LEU:C	2.57	0.48
1:A:533:ASN:C	1:A:535:CYS:N	2.70	0.48
1:B:325:VAL:HG12	1:B:329:LEU:HD11	1.96	0.48
1:B:508:MET:SD	1:C:695:CYS:CB	3.02	0.48
1:B:728:VAL:N	1:B:729:PRO:CD	2.77	0.48
1:C:95:ARG:HH22	1:C:196:GLU:CD	2.21	0.48
1:C:556:GLU:O	1:C:559:VAL:HB	2.14	0.48
1:A:131:PHE:O	1:A:136:LYS:HB2	2.14	0.48
1:A:573:VAL:HG23	1:A:573:VAL:O	2.14	0.48
1:A:612:SER:OG	1:A:615:LYS:HB2	2.13	0.48
1:B:143:TYR:HE1	1:B:178:PRO:HD2	1.79	0.48
1:B:173:TYR:O	1:B:173:TYR:CD1	2.67	0.48
1:B:473:GLN:OE1	1:B:473:GLN:N	2.44	0.48
1:B:599:ARG:HG2	1:C:552:PHE:CD1	2.48	0.48
1:A:547:LEU:HA	1:A:550:MET:HE3	1.96	0.48
1:A:547:LEU:HD23	1:A:550:MET:HE3	1.95	0.48
1:C:515:LEU:HB3	1:C:642:LEU:HD13	1.96	0.48
1:A:95:ARG:HH22	1:A:196:GLU:CD	2.21	0.48
1:B:155:ARG:HE	1:B:386:LYS:HZ3	1.62	0.48
1:B:222:LEU:N	1:B:223:PRO:HD2	2.28	0.48
1:B:482:LEU:HD12	1:B:645:ILE:HG23	1.96	0.48
1:B:562:ILE:C	1:B:564:ASP:N	2.71	0.48
1:B:615:LYS:HZ2	1:C:460:ASN:CG	2.22	0.48
1:B:737:GLU:C	1:B:739:ALA:H	2.22	0.48
1:B:758:PHE:HB3	1:B:762:LEU:HG	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:518:GLY:C	1:C:755:TYR:CE2	2.91	0.48
1:C:697:LEU:O	1:C:701:GLU:HG2	2.14	0.48
1:A:487:ARG:CB	1:A:487:ARG:NH1	2.77	0.47
1:A:627:ASP:CB	1:A:758:PHE:CZ	2.89	0.47
1:A:683:SER:O	1:A:687:LEU:HG	2.14	0.47
1:B:93:ARG:NH2	1:B:195:GLU:HG2	2.29	0.47
1:B:547:LEU:HA	1:B:550:MET:HE3	1.96	0.47
1:B:582:ILE:HG21	1:B:598:ASP:CG	2.39	0.47
1:C:63:LYS:O	1:C:64:ARG:C	2.56	0.47
1:C:232:ALA:O	1:C:233:ILE:HB	2.14	0.47
1:A:39:VAL:HG11	1:A:59:LEU:HD11	1.96	0.47
1:A:222:LEU:N	1:A:223:PRO:HD2	2.29	0.47
1:A:538:ASN:O	1:A:573:VAL:HG22	2.14	0.47
1:B:465:ARG:NH1	1:B:465:ARG:CB	2.77	0.47
1:C:239:ARG:NH1	1:C:336:LYS:HB2	2.30	0.47
1:A:184:CYS:C	1:A:186:GLY:N	2.71	0.47
1:A:232:ALA:O	1:A:233:ILE:HB	2.14	0.47
1:A:487:ARG:NH1	1:A:487:ARG:HB3	2.29	0.47
1:A:562:ILE:C	1:A:564:ASP:H	2.22	0.47
1:B:248:GLY:C	1:B:250:GLY:N	2.72	0.47
1:B:468:VAL:HG12	1:B:470:GLU:H	1.80	0.47
1:B:495:TYR:N	1:B:496:PRO:HD2	2.28	0.47
1:C:114:ILE:HA	1:C:168:THR:HG22	1.96	0.47
1:C:222:LEU:N	1:C:223:PRO:HD2	2.28	0.47
1:A:537:ALA:CB	1:A:571:PRO:HB2	2.45	0.47
1:A:733:ARG:HH11	1:A:733:ARG:CB	2.26	0.47
1:A:758:PHE:C	1:A:762:LEU:HG	2.38	0.47
1:B:42:SER:HB3	1:B:77:CYS:O	2.13	0.47
1:B:304:ASP:O	1:B:305:GLU:HB2	2.14	0.47
1:B:328:LEU:O	1:B:329:LEU:C	2.57	0.47
1:C:320:VAL:O	1:C:324:ILE:HG13	2.13	0.47
1:C:328:LEU:O	1:C:329:LEU:C	2.56	0.47
1:A:284:SER:HA	1:A:287:ARG:CB	2.44	0.47
1:B:210:ARG:NH2	1:B:375:THR:HG22	2.29	0.47
1:C:94:VAL:HG21	1:C:100:ILE:CD1	2.34	0.47
1:C:143:TYR:HE1	1:C:178:PRO:HD2	1.79	0.47
1:C:248:GLY:C	1:C:250:GLY:N	2.72	0.47
1:C:399:VAL:C	1:C:401:ASN:N	2.70	0.47
1:C:427:MET:SD	1:C:433:GLU:CB	2.97	0.47
1:C:464:LEU:CG	1:C:466:GLU:HB3	2.45	0.47
1:C:562:ILE:C	1:C:564:ASP:N	2.70	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:620:ILE:HG22	1:C:621:GLY:N	2.29	0.47
1:A:325:VAL:HG12	1:A:329:LEU:HD11	1.96	0.47
1:A:451:ASP:O	1:A:454:TRP:HB3	2.13	0.47
1:A:737:GLU:C	1:A:739:ALA:H	2.23	0.47
1:B:84:MET:HE1	1:B:100:ILE:CD1	2.45	0.47
1:B:567:ARG:HG2	1:C:460:ASN:HD21	1.80	0.47
1:B:733:ARG:HH11	1:B:733:ARG:CB	2.27	0.47
1:C:173:TYR:O	1:C:173:TYR:CD1	2.67	0.47
1:C:283:GLU:OE1	1:C:283:GLU:N	2.47	0.47
1:C:407:VAL:HG23	1:C:409:ALA:H	1.80	0.47
1:C:479:ILE:N	1:C:479:ILE:CD1	2.77	0.47
1:C:502:LYS:HD2	1:C:502:LYS:H	1.79	0.47
1:C:579:LEU:HD11	1:C:633:ILE:HD13	1.97	0.47
1:A:251:LYS:HE2	1:A:347:THR:O	2.15	0.47
1:A:283:GLU:N	1:A:283:GLU:OE1	2.47	0.47
1:A:310:ALA:N	1:A:311:PRO:CD	2.78	0.47
1:A:407:VAL:HG23	1:A:409:ALA:H	1.80	0.47
1:A:445:LEU:C	1:A:445:LEU:CD2	2.88	0.47
1:A:455:ALA:O	1:A:458:GLN:HB3	2.14	0.47
1:A:518:GLY:C	1:A:755:TYR:CE2	2.93	0.47
1:A:556:GLU:O	1:A:559:VAL:HB	2.13	0.47
1:A:620:ILE:HG22	1:A:621:GLY:N	2.30	0.47
1:B:41:LEU:HD23	1:B:82:ILE:HA	1.96	0.47
1:B:359:ARG:NH1	2:C:807:ADP:O3B	2.47	0.47
1:B:491:GLU:OE1	1:C:700:ARG:HD2	2.15	0.47
1:C:28:VAL:HG11	1:C:95:ARG:O	2.14	0.47
1:A:102:ILE:HG12	1:A:103:GLN:N	2.30	0.47
1:A:479:ILE:HG21	1:A:486:LYS:HE2	1.97	0.47
1:A:517:TYR:CZ	1:A:644:TYR:HB2	2.50	0.47
1:A:519:PRO:CA	1:A:755:TYR:HE2	2.28	0.47
1:C:252:THR:HG23	1:C:302:PHE:CE2	2.50	0.47
1:A:93:ARG:NH2	1:A:195:GLU:HG2	2.29	0.47
1:A:173:TYR:O	1:A:173:TYR:CD1	2.67	0.47
1:A:525:THR:HG23	1:A:575:PHE:CE2	2.50	0.47
1:B:445:LEU:C	1:B:445:LEU:CD2	2.88	0.47
1:B:562:ILE:C	1:B:564:ASP:H	2.21	0.47
1:C:28:VAL:HG23	1:C:84:MET:HG2	1.97	0.47
1:A:512:LYS:HZ3	1:A:608:MET:HG3	1.80	0.47
1:A:575:PHE:HA	1:A:620:ILE:O	2.14	0.47
1:B:284:SER:HA	1:B:287:ARG:CB	2.44	0.47
1:B:313:ARG:HG2	1:B:314:GLU:N	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:451:ASP:O	1:B:454:TRP:HB3	2.14	0.47
1:B:490:GLN:HA	1:B:493:VAL:HG22	1.97	0.47
1:C:110:TYR:H	1:C:110:TYR:HD1	1.61	0.47
1:C:253:LEU:HD12	2:C:807:ADP:H3'	1.98	0.47
1:C:376:GLY:O	1:C:380:ILE:HG13	2.16	0.47
1:C:437:ILE:HG23	1:C:442:MET:SD	2.55	0.47
1:C:513:GLY:HA2	1:C:618:PHE:CE1	2.50	0.47
1:C:579:LEU:C	1:C:579:LEU:CD2	2.88	0.47
1:A:495:TYR:HD1	1:B:703:ILE:CD1	2.28	0.46
1:A:514:VAL:HG11	1:A:643:ILE:HD12	1.97	0.46
1:B:251:LYS:HE2	1:B:347:THR:O	2.15	0.46
1:B:469:VAL:HG21	1:B:565:LYS:CE	2.41	0.46
1:B:515:LEU:HB3	1:B:642:LEU:CD1	2.45	0.46
1:C:451:ASP:O	1:C:454:TRP:HB3	2.13	0.46
1:A:89:ARG:HH21	1:A:96:LEU:HD21	1.80	0.46
1:A:239:ARG:NH1	1:A:336:LYS:HB2	2.30	0.46
1:A:657:LEU:CD1	1:A:672:LEU:HD22	2.44	0.46
1:A:751:ASP:O	1:A:752:ILE:C	2.56	0.46
1:B:28:VAL:HG11	1:B:95:ARG:O	2.15	0.46
1:B:490:GLN:HB3	1:B:494:GLN:CG	2.43	0.46
1:C:633:ILE:HG21	1:C:639:LEU:HD12	1.96	0.46
1:C:657:LEU:C	1:C:659:ALA:N	2.70	0.46
1:C:730:GLU:CD	1:C:730:GLU:N	2.74	0.46
1:A:479:ILE:N	1:A:479:ILE:CD1	2.78	0.46
1:B:683:SER:O	1:B:687:LEU:HG	2.14	0.46
1:B:751:ASP:O	1:B:752:ILE:C	2.57	0.46
1:C:283:GLU:HB3	1:C:327:GLN:HE21	1.81	0.46
1:C:753:ARG:O	1:C:757:MET:HG2	2.16	0.46
1:A:158:MET:CE	1:A:419:ALA:HB1	2.41	0.46
1:A:303:ILE:HG13	1:A:345:ALA:HA	1.97	0.46
1:A:697:LEU:HD13	1:A:697:LEU:C	2.41	0.46
1:B:22:ARG:CG	1:B:25:ARG:NH1	2.69	0.46
1:B:147:ARG:HG2	1:B:148:LYS:H	1.77	0.46
1:B:697:LEU:O	1:B:701:GLU:HG2	2.14	0.46
1:C:93:ARG:NH2	1:C:194:GLU:HG3	2.08	0.46
1:C:284:SER:HA	1:C:287:ARG:CB	2.45	0.46
1:C:473:GLN:OE1	1:C:473:GLN:N	2.46	0.46
1:C:487:ARG:NH1	1:C:487:ARG:HB3	2.31	0.46
1:C:495:TYR:N	1:C:496:PRO:HD2	2.31	0.46
1:C:662:ARG:HB2	1:C:662:ARG:HH11	1.79	0.46
1:C:683:SER:O	1:C:687:LEU:HG	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:PRO:O	1:A:49:LEU:HD21	2.15	0.46
1:A:292:GLU:O	1:A:292:GLU:HG2	2.16	0.46
1:A:427:MET:SD	1:A:437:ILE:HD12	2.54	0.46
1:B:118:PRO:HB3	1:B:163:PHE:CE1	2.51	0.46
1:B:147:ARG:CG	1:B:148:LYS:H	2.28	0.46
1:B:679:THR:HB	1:B:682:PHE:CD1	2.51	0.46
1:C:203:TYR:C	1:C:205:ASP:N	2.74	0.46
1:C:660:ASN:HD21	1:C:688:THR:HG23	1.81	0.46
1:A:28:VAL:HG11	1:A:95:ARG:O	2.15	0.46
1:A:329:LEU:HD22	1:A:362:ARG:NH1	2.31	0.46
1:A:641:GLN:NE2	1:B:696:LYS:NZ	2.64	0.46
1:B:22:ARG:HB2	1:B:25:ARG:NH1	2.31	0.46
1:B:627:ASP:HB3	1:B:758:PHE:CE1	2.50	0.46
1:C:80:GLU:HG3	1:C:80:GLU:O	2.16	0.46
1:C:490:GLN:HA	1:C:493:VAL:HG22	1.98	0.46
1:A:49:LEU:N	1:A:49:LEU:CD1	2.79	0.46
1:A:84:MET:HE1	1:A:100:ILE:CD1	2.46	0.46
1:A:89:ARG:NE	1:A:96:LEU:HD21	2.31	0.46
1:A:114:ILE:CD1	1:A:176:VAL:HG22	2.45	0.46
1:A:192:GLU:HB2	1:A:195:GLU:OE1	2.15	0.46
1:A:250:GLY:HA2	2:A:807:ADP:O3A	2.15	0.46
1:A:252:THR:HA	1:A:302:PHE:CZ	2.51	0.46
1:A:753:ARG:O	1:A:757:MET:HG2	2.16	0.46
1:B:131:PHE:O	1:B:136:LYS:HB2	2.16	0.46
1:B:214:ALA:O	1:B:218:GLU:HG2	2.16	0.46
1:B:329:LEU:HD22	1:B:362:ARG:NH1	2.31	0.46
1:B:501:ASP:O	1:B:505:LYS:N	2.49	0.46
1:B:580:ASP:C	1:B:582:ILE:N	2.73	0.46
1:B:697:LEU:HD13	1:B:697:LEU:C	2.40	0.46
1:C:307:ASP:O	1:C:311:PRO:HD3	2.15	0.46
1:C:737:GLU:C	1:C:739:ALA:H	2.22	0.46
1:A:235:VAL:HG11	1:B:420:LEU:HD21	1.98	0.46
1:A:376:GLY:O	1:A:380:ILE:HG13	2.16	0.46
1:B:251:LYS:HG3	2:B:807:ADP:O2B	2.15	0.46
1:B:407:VAL:HG23	1:B:409:ALA:H	1.80	0.46
1:B:502:LYS:HG2	1:B:505:LYS:HE3	1.98	0.46
1:B:540:ILE:CG2	1:B:574:LEU:HD12	2.46	0.46
1:B:647:LEU:HB3	1:B:648:PRO:CD	2.42	0.46
1:C:460:ASN:O	1:C:462:SER:N	2.46	0.46
1:A:93:ARG:NH2	1:A:194:GLU:HG3	2.10	0.46
1:A:226:HIS:C	1:A:228:ALA:N	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:647:LEU:HD12	1:A:647:LEU:H	1.81	0.46
1:B:512:LYS:NZ	1:B:608:MET:O	2.49	0.46
1:B:631:PRO:O	1:B:635:ARG:HG3	2.16	0.46
1:C:112:LYS:H	1:C:170:PRO:CG	2.29	0.46
1:C:201:VAL:CG2	1:C:256:ARG:HD2	2.45	0.46
1:C:445:LEU:C	1:C:445:LEU:CD2	2.89	0.46
1:A:520:PRO:HG3	1:A:624:ASN:HB3	1.98	0.46
1:A:653:ARG:HA	1:A:656:ILE:HD12	1.97	0.46
1:B:93:ARG:NH2	1:B:194:GLU:HG3	2.10	0.46
1:B:114:ILE:HD13	1:B:146:ILE:HD11	1.98	0.46
1:A:48:GLU:HB3	1:A:49:LEU:HD12	1.98	0.45
1:A:513:GLY:HA3	1:A:619:ILE:O	2.16	0.45
1:A:667:ALA:HB2	1:A:731:ILE:O	2.16	0.45
1:A:737:GLU:C	1:A:739:ALA:N	2.74	0.45
1:C:269:ILE:HD12	1:C:303:ILE:CG2	2.45	0.45
1:C:564:ASP:C	1:C:566:ALA:H	2.22	0.45
1:A:347:THR:HG21	1:A:353:ILE:HD11	1.97	0.45
1:A:729:PRO:C	1:A:730:GLU:CD	2.84	0.45
1:B:209:CYS:HB3	1:B:212:GLN:CB	2.36	0.45
1:B:449:MET:CE	1:B:453:ARG:HH21	2.28	0.45
1:B:560:ARG:HG3	1:B:560:ARG:HH11	1.81	0.45
1:B:625:ARG:HD3	1:B:625:ARG:HA	1.79	0.45
1:B:753:ARG:O	1:B:757:MET:HG2	2.16	0.45
1:C:28:VAL:CG1	1:C:97:GLY:H	2.28	0.45
1:A:464:LEU:HG	1:A:465:ARG:N	2.32	0.45
1:A:476:TRP:HE1	1:A:534:GLU:CG	2.29	0.45
1:B:22:ARG:CB	1:B:25:ARG:NH1	2.79	0.45
1:B:66:GLU:O	1:B:67:ALA:HB2	2.17	0.45
1:B:283:GLU:HB3	1:B:327:GLN:HE21	1.81	0.45
1:B:306:LEU:HG	1:B:310:ALA:HB3	1.98	0.45
1:B:376:GLY:O	1:B:380:ILE:HG13	2.17	0.45
1:B:501:ASP:O	1:B:505:LYS:HG3	2.16	0.45
1:B:566:ALA:O	1:B:569:ALA:C	2.59	0.45
1:C:631:PRO:O	1:C:635:ARG:HG3	2.17	0.45
1:C:651:LYS:O	1:C:652:SER:C	2.59	0.45
1:A:197:SER:C	1:A:199:ASN:N	2.74	0.45
1:A:440:GLU:O	1:A:441:VAL:C	2.60	0.45
1:B:28:VAL:CG1	1:B:97:GLY:H	2.29	0.45
1:B:517:TYR:C	1:B:524:LYS:HD3	2.42	0.45
1:B:540:ILE:HD12	1:B:566:ALA:CB	2.42	0.45
1:C:48:GLU:HB3	1:C:49:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:84:MET:HE1	1:C:100:ILE:CD1	2.46	0.45
1:C:126:ILE:HG23	1:C:159:ARG:CZ	2.46	0.45
1:C:528:ALA:HB1	1:C:539:PHE:HE1	1.81	0.45
1:C:679:THR:HB	1:C:682:PHE:CD1	2.51	0.45
1:A:22:ARG:HH21	1:A:25:ARG:HD3	1.81	0.45
1:A:95:ARG:HB2	1:A:225:ARG:HH12	1.80	0.45
1:A:304:ASP:O	1:A:305:GLU:HB2	2.16	0.45
1:A:420:LEU:HB3	1:A:424:ARG:NH1	2.31	0.45
1:C:84:MET:HB2	1:C:88:VAL:HB	1.98	0.45
1:C:197:SER:C	1:C:199:ASN:N	2.74	0.45
1:C:292:GLU:O	1:C:292:GLU:HG2	2.16	0.45
1:C:332:MET:C	1:C:334:GLY:N	2.75	0.45
1:C:360:PHE:H	1:C:360:PHE:HD1	1.64	0.45
1:C:645:ILE:N	1:C:645:ILE:HD12	2.31	0.45
1:C:737:GLU:C	1:C:739:ALA:N	2.74	0.45
1:A:487:ARG:HB3	1:A:487:ARG:CZ	2.46	0.45
1:A:749:ASP:HA	1:A:752:ILE:CD1	2.44	0.45
1:B:48:GLU:CB	1:B:49:LEU:HD12	2.47	0.45
1:B:290:PHE:CD1	1:B:301:ILE:HD12	2.51	0.45
1:B:518:GLY:C	1:B:755:TYR:CE2	2.95	0.45
1:B:523:GLY:O	1:B:527:LEU:HG	2.16	0.45
1:B:573:VAL:HA	1:B:618:PHE:O	2.17	0.45
1:B:612:SER:OG	1:B:615:LYS:HB2	2.16	0.45
2:B:900:ADP:PB	3:B:915:AF3:F3	2.65	0.45
1:C:251:LYS:HE2	1:C:347:THR:O	2.16	0.45
1:C:329:LEU:HD22	1:C:362:ARG:NH1	2.32	0.45
1:C:487:ARG:NH1	1:C:487:ARG:CB	2.80	0.45
1:C:499:HIS:N	1:C:500:PRO:CD	2.76	0.45
1:C:514:VAL:HG23	1:C:618:PHE:HZ	1.81	0.45
1:C:582:ILE:CD1	1:C:600:VAL:HB	2.47	0.45
1:C:749:ASP:HA	1:C:752:ILE:CD1	2.44	0.45
1:A:80:GLU:HG3	1:A:80:GLU:O	2.17	0.45
1:A:403:THR:HB	1:A:406:HIS:ND1	2.32	0.45
1:A:469:VAL:O	1:A:469:VAL:HG12	2.17	0.45
1:B:749:ASP:HA	1:B:752:ILE:CD1	2.44	0.45
1:C:49:LEU:N	1:C:49:LEU:CD1	2.80	0.45
1:C:63:LYS:HD2	1:C:93:ARG:CG	2.47	0.45
1:C:102:ILE:HG12	1:C:103:GLN:N	2.32	0.45
1:C:490:GLN:HB3	1:C:494:GLN:HG3	1.98	0.45
1:C:573:VAL:HG23	1:C:573:VAL:O	2.17	0.45
1:A:431:ASP:HB3	1:A:432:LEU:H	1.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:LYS:H	1:B:170:PRO:CG	2.30	0.45
1:B:232:ALA:HA	1:C:159:ARG:NH2	2.32	0.45
1:B:360:PHE:HD1	1:B:360:PHE:H	1.63	0.45
1:B:487:ARG:HB3	1:B:487:ARG:NH1	2.31	0.45
1:B:518:GLY:O	1:B:755:TYR:CE2	2.70	0.45
1:B:580:ASP:O	1:B:582:ILE:N	2.50	0.45
1:C:209:CYS:HB3	1:C:212:GLN:CB	2.36	0.45
1:A:38:VAL:HG21	1:A:72:LEU:HD12	1.99	0.45
1:A:269:ILE:HB	1:A:303:ILE:HG22	1.98	0.45
1:A:407:VAL:HG23	1:A:410:ASP:H	1.82	0.45
1:A:476:TRP:HE1	1:A:534:GLU:CD	2.25	0.45
1:B:239:ARG:NH1	1:B:336:LYS:HB2	2.29	0.45
1:B:292:GLU:HG2	1:B:292:GLU:O	2.17	0.45
1:C:403:THR:HB	1:C:406:HIS:ND1	2.31	0.45
1:C:570:ALA:HA	1:C:571:PRO:C	2.40	0.45
1:A:86:ARG:NH2	1:A:202:GLY:HA3	2.32	0.45
1:A:169:ASP:HB3	1:A:170:PRO:CD	2.30	0.45
1:A:360:PHE:H	1:A:360:PHE:HD1	1.63	0.45
1:A:631:PRO:O	1:A:635:ARG:HG3	2.17	0.45
1:A:679:THR:HB	1:A:682:PHE:CD1	2.52	0.45
1:B:49:LEU:N	1:B:49:LEU:CD1	2.79	0.45
1:B:491:GLU:OE2	1:C:700:ARG:CZ	2.65	0.45
1:B:524:LYS:HB2	1:B:524:LYS:HZ2	1.76	0.45
1:C:487:ARG:HB3	1:C:487:ARG:CZ	2.47	0.45
1:C:580:ASP:CG	1:C:625:ARG:HB2	2.42	0.45
1:C:647:LEU:HD12	1:C:647:LEU:N	2.29	0.45
1:A:313:ARG:CZ	1:A:314:GLU:OE1	2.65	0.44
1:A:495:TYR:O	1:A:499:HIS:HB2	2.17	0.44
1:A:537:ALA:HB2	1:A:571:PRO:HB2	1.99	0.44
1:A:578:GLU:O	1:A:581:SER:N	2.33	0.44
1:A:92:LEU:O	1:A:94:VAL:HG13	2.17	0.44
1:A:147:ARG:HG2	1:A:148:LYS:H	1.79	0.44
1:A:149:GLY:O	1:A:164:LYS:NZ	2.47	0.44
1:A:240:GLY:HA3	1:A:363:PHE:HA	2.00	0.44
1:A:435:GLU:OE1	1:A:435:GLU:CA	2.62	0.44
1:A:686:ASP:OD2	1:A:746:SER:OG	2.28	0.44
1:B:729:PRO:O	1:B:730:GLU:OE2	2.35	0.44
1:C:519:PRO:HG3	1:C:647:LEU:HD11	2.00	0.44
1:C:697:LEU:HD13	1:C:697:LEU:C	2.42	0.44
1:A:615:LYS:NZ	1:B:460:ASN:CG	2.75	0.44
1:B:469:VAL:O	1:B:469:VAL:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:29:ASP:CG	1:C:30:GLU:H	2.25	0.44
1:C:56:THR:HG22	1:C:70:ILE:HD12	1.97	0.44
1:C:133:VAL:HG21	1:C:439:ALA:CB	2.40	0.44
1:C:560:ARG:HH11	1:C:560:ARG:HG3	1.82	0.44
1:C:632:ALA:HA	1:C:635:ARG:CG	2.47	0.44
1:A:26:LEU:HD21	1:A:45:LYS:CE	2.47	0.44
1:A:449:MET:CE	1:A:453:ARG:HH21	2.30	0.44
1:B:332:MET:C	1:B:334:GLY:N	2.75	0.44
1:B:501:ASP:OD1	1:B:502:LYS:N	2.51	0.44
1:B:523:GLY:CA	2:B:900:ADP:O1A	2.62	0.44
1:C:149:GLY:O	1:C:164:LYS:NZ	2.47	0.44
1:C:667:ALA:HB3	1:C:670:VAL:HG23	1.99	0.44
1:A:123:VAL:O	1:A:126:ILE:HG12	2.18	0.44
1:A:283:GLU:HB3	1:A:327:GLN:HE21	1.82	0.44
1:A:506:PHE:HE2	1:B:699:ILE:HA	1.83	0.44
1:B:80:GLU:HG3	1:B:80:GLU:O	2.17	0.44
1:B:420:LEU:HB3	1:B:424:ARG:NH1	2.32	0.44
1:C:437:ILE:CG2	1:C:442:MET:SD	3.05	0.44
1:A:114:ILE:HD13	1:A:146:ILE:HD11	2.00	0.44
1:A:254:ILE:H	1:A:254:ILE:HG13	1.51	0.44
1:A:314:GLU:CD	1:A:314:GLU:N	2.75	0.44
1:A:593:GLY:O	1:B:586:ARG:O	2.35	0.44
1:B:356:ALA:O	1:B:362:ARG:NH1	2.51	0.44
1:B:525:THR:HG23	1:B:575:PHE:CE2	2.53	0.44
1:B:531:ILE:HG23	1:B:532:ALA:N	2.31	0.44
1:B:570:ALA:HA	1:B:571:PRO:C	2.42	0.44
1:B:632:ALA:HA	1:B:635:ARG:CG	2.48	0.44
1:B:730:GLU:CD	1:B:730:GLU:N	2.76	0.44
1:C:243:LEU:HD23	1:C:369:ILE:HD11	1.98	0.44
1:C:586:ARG:NH1	1:C:598:ASP:HA	2.33	0.44
1:A:460:ASN:O	1:A:462:SER:N	2.49	0.44
1:B:89:ARG:NE	1:B:96:LEU:HD21	2.33	0.44
1:B:487:ARG:NH1	1:B:487:ARG:CB	2.80	0.44
1:C:89:ARG:NH2	1:C:96:LEU:HD21	2.33	0.44
1:C:420:LEU:HB3	1:C:424:ARG:NH1	2.32	0.44
1:A:89:ARG:HG3	1:A:94:VAL:O	2.18	0.44
1:A:118:PRO:HB3	1:A:163:PHE:CE1	2.53	0.44
1:A:464:LEU:HD21	1:A:466:GLU:HB3	2.00	0.44
1:A:653:ARG:HD2	1:A:676:ALA:CA	2.39	0.44
1:B:419:ALA:O	1:B:423:ILE:HG13	2.18	0.44
1:C:39:VAL:CG1	1:C:59:LEU:HD11	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:66:GLU:HB2	1:C:147:ARG:HH12	1.83	0.44
1:C:164:LYS:HB3	1:C:189:ILE:CD1	2.48	0.44
1:C:226:HIS:C	1:C:228:ALA:N	2.73	0.44
1:C:647:LEU:CB	1:C:648:PRO:HD2	2.36	0.44
1:A:29:ASP:CG	1:A:30:GLU:H	2.26	0.44
1:A:147:ARG:CG	1:A:148:LYS:H	2.29	0.44
1:A:503:PHE:CD1	1:B:699:ILE:CD1	3.01	0.44
1:B:94:VAL:HG21	1:B:100:ILE:CD1	2.36	0.44
1:B:102:ILE:HG12	1:B:103:GLN:N	2.33	0.44
1:B:114:ILE:HD13	1:B:146:ILE:CD1	2.48	0.44
1:B:290:PHE:HA	1:B:301:ILE:HD11	2.00	0.44
1:B:528:ALA:O	1:B:531:ILE:HG22	2.18	0.44
1:C:169:ASP:HB3	1:C:170:PRO:CD	2.32	0.44
1:C:259:ALA:CB	1:C:300:ILE:HD12	2.47	0.44
1:C:469:VAL:O	1:C:469:VAL:HG12	2.18	0.44
1:C:569:ALA:O	1:C:572:CYS:HB2	2.18	0.44
1:A:48:GLU:CB	1:A:49:LEU:HD12	2.47	0.43
1:A:112:LYS:H	1:A:170:PRO:CG	2.30	0.43
1:A:119:ILE:HG13	1:A:162:GLU:O	2.18	0.43
1:A:329:LEU:HD13	1:B:272:PRO:HG2	2.00	0.43
1:A:533:ASN:C	1:A:535:CYS:H	2.24	0.43
1:A:560:ARG:HH11	1:A:560:ARG:HG3	1.82	0.43
1:A:647:LEU:HB3	1:A:648:PRO:CD	2.44	0.43
1:A:667:ALA:HB3	1:A:670:VAL:HG23	1.99	0.43
1:B:403:THR:HB	1:B:406:HIS:ND1	2.32	0.43
1:B:556:GLU:H	1:B:556:GLU:CD	2.26	0.43
2:B:900:ADP:O2B	3:B:915:AF3:F3	2.26	0.43
1:C:449:MET:CE	1:C:453:ARG:HH21	2.31	0.43
1:A:28:VAL:CG1	1:A:97:GLY:H	2.31	0.43
1:A:214:ALA:O	1:A:218:GLU:HG2	2.18	0.43
1:A:320:VAL:O	1:A:321:GLU:C	2.61	0.43
1:A:567:ARG:NH1	1:A:567:ARG:CB	2.81	0.43
1:A:582:ILE:HG22	1:A:598:ASP:OD2	2.18	0.43
1:A:728:VAL:N	1:A:729:PRO:CD	2.81	0.43
1:B:92:LEU:O	1:B:94:VAL:HG13	2.18	0.43
1:B:309:ILE:O	1:B:309:ILE:HG22	2.18	0.43
1:B:465:ARG:CZ	1:B:465:ARG:HB2	2.49	0.43
1:C:657:LEU:HD21	1:C:687:LEU:HB3	2.00	0.43
1:A:252:THR:HA	1:A:302:PHE:CE2	2.53	0.43
1:A:502:LYS:HD3	1:B:702:SER:OG	2.19	0.43
1:B:184:CYS:C	1:B:186:GLY:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:192:GLU:HB2	1:B:195:GLU:OE1	2.18	0.43
1:B:251:LYS:H	2:B:807:ADP:PB	2.40	0.43
1:B:397:GLU:C	1:B:401:ASN:ND2	2.76	0.43
1:B:615:LYS:NZ	1:C:460:ASN:CG	2.76	0.43
1:C:580:ASP:O	1:C:583:ALA:N	2.46	0.43
1:A:256:ARG:HG3	1:A:256:ARG:HH11	1.83	0.43
1:A:519:PRO:HG3	1:A:647:LEU:CD1	2.48	0.43
1:A:615:LYS:NZ	1:B:460:ASN:ND2	2.66	0.43
1:B:62:LYS:NZ	1:B:98:ASP:HB3	2.32	0.43
1:B:240:GLY:HA3	1:B:363:PHE:HA	1.99	0.43
1:B:329:LEU:HD23	1:B:357:LEU:CD2	2.49	0.43
1:B:438:ASP:OD2	1:B:440:GLU:HB2	2.18	0.43
1:B:582:ILE:HD12	1:B:601:ILE:CG1	2.44	0.43
1:C:38:VAL:HG21	1:C:72:LEU:HD12	2.01	0.43
1:C:523:GLY:O	1:C:524:LYS:C	2.59	0.43
1:C:563:PHE:CE1	1:C:574:LEU:CD2	3.01	0.43
1:C:586:ARG:HH12	1:C:598:ASP:HA	1.82	0.43
1:A:233:ILE:CG1	1:A:235:VAL:HG23	2.48	0.43
1:A:433:GLU:HG2	1:A:437:ILE:HD13	2.00	0.43
1:B:237:PRO:O	1:B:238:PRO:C	2.59	0.43
1:C:147:ARG:HG2	1:C:148:LYS:H	1.81	0.43
1:A:356:ALA:O	1:A:362:ARG:NH1	2.52	0.43
1:A:373:ASP:HA	1:A:377:ARG:NH1	2.33	0.43
1:A:397:GLU:C	1:A:401:ASN:ND2	2.76	0.43
1:A:515:LEU:HD21	1:A:623:THR:HG22	1.99	0.43
1:A:529:LYS:O	1:A:532:ALA:HB3	2.19	0.43
1:A:625:ARG:HD3	1:A:625:ARG:HA	1.74	0.43
1:A:648:PRO:HG3	1:A:683:SER:HA	2.00	0.43
1:B:329:LEU:HD23	1:B:357:LEU:HD23	2.01	0.43
1:B:498:GLU:C	1:B:500:PRO:HD3	2.43	0.43
1:B:524:LYS:NZ	1:B:622:ALA:HB1	2.33	0.43
1:C:118:PRO:HB3	1:C:163:PHE:CE1	2.54	0.43
1:C:214:ALA:O	1:C:218:GLU:HG2	2.18	0.43
1:C:512:LYS:HB2	1:C:638:ARG:O	2.19	0.43
1:A:110:TYR:CD1	1:A:110:TYR:N	2.81	0.43
1:A:143:TYR:HE1	1:A:178:PRO:HD2	1.84	0.43
1:A:215:GLN:O	1:A:219:MET:HG3	2.19	0.43
1:A:567:ARG:C	1:A:569:ALA:N	2.76	0.43
1:B:226:HIS:C	1:B:228:ALA:N	2.73	0.43
1:B:573:VAL:O	1:B:573:VAL:HG23	2.19	0.43
1:B:653:ARG:HG2	1:B:687:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:407:VAL:HG23	1:C:410:ASP:H	1.83	0.43
1:C:556:GLU:H	1:C:556:GLU:CD	2.27	0.43
1:C:582:ILE:HD13	1:C:600:VAL:HB	2.01	0.43
1:A:89:ARG:CZ	1:A:96:LEU:HD21	2.48	0.43
1:B:407:VAL:HG23	1:B:410:ASP:H	1.84	0.43
1:B:737:GLU:C	1:B:739:ALA:N	2.74	0.43
1:C:155:ARG:HE	1:C:386:LYS:HZ2	1.67	0.43
1:C:648:PRO:CD	1:C:683:SER:HA	2.49	0.43
1:A:519:PRO:N	1:A:755:TYR:CE2	2.86	0.43
1:A:623:THR:C	1:A:625:ARG:H	2.27	0.43
1:B:110:TYR:CD1	1:B:110:TYR:N	2.81	0.43
1:B:524:LYS:HZ2	1:B:622:ALA:HB1	1.83	0.43
1:B:649:ASP:N	1:B:652:SER:HB2	2.34	0.43
1:B:728:VAL:O	1:B:728:VAL:HG12	2.19	0.43
1:C:397:GLU:C	1:C:401:ASN:ND2	2.76	0.43
1:C:405:GLY:O	1:C:464:LEU:O	2.37	0.43
1:C:523:GLY:O	1:C:526:LEU:N	2.51	0.43
1:C:542:ILE:HD12	1:C:542:ILE:N	2.34	0.43
1:A:237:PRO:O	1:A:238:PRO:C	2.59	0.43
1:A:512:LYS:HB3	1:A:512:LYS:HE2	1.83	0.43
1:A:655:ALA:O	1:A:659:ALA:N	2.52	0.43
1:B:206:ILE:CD1	1:B:213:LEU:CD1	2.94	0.43
1:B:373:ASP:HA	1:B:377:ARG:NH1	2.33	0.43
1:B:491:GLU:CA	1:B:495:TYR:HE2	2.21	0.43
1:B:571:PRO:O	1:B:572:CYS:HB2	2.18	0.43
1:C:356:ALA:O	1:C:362:ARG:NH1	2.51	0.43
1:C:377:ARG:HD2	1:C:403:THR:OG1	2.19	0.43
1:C:429:LEU:C	1:C:431:ASP:H	2.25	0.43
1:C:515:LEU:C	1:C:515:LEU:HD23	2.44	0.43
1:C:555:SER:C	1:C:557:ALA:N	2.77	0.43
1:C:673:GLU:O	1:C:676:ALA:HB3	2.18	0.43
1:A:506:PHE:CZ	1:B:698:ALA:HB1	2.54	0.42
1:A:556:GLU:H	1:A:556:GLU:CD	2.27	0.42
1:B:135:LEU:N	1:B:135:LEU:CD2	2.81	0.42
1:B:138:TYR:CZ	1:B:144:ARG:HD3	2.55	0.42
1:B:220:VAL:CG1	1:B:342:ILE:HD13	2.49	0.42
1:B:244:TYR:CD1	1:B:350:PRO:HG3	2.54	0.42
1:C:93:ARG:HH22	1:C:195:GLU:HG2	1.83	0.42
1:C:311:PRO:C	1:C:313:ARG:N	2.77	0.42
1:C:625:ARG:HA	1:C:625:ARG:HD3	1.64	0.42
1:A:332:MET:C	1:A:334:GLY:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:197:SER:C	1:B:199:ASN:N	2.74	0.42
1:B:487:ARG:HB3	1:B:487:ARG:CZ	2.49	0.42
1:C:164:LYS:HB3	1:C:189:ILE:HD11	2.01	0.42
1:C:353:ILE:CG2	1:C:354:ASP:H	2.18	0.42
1:C:567:ARG:HG3	1:C:615:LYS:CE	2.32	0.42
1:C:596:ALA:CB	1:C:630:ASP:HA	2.48	0.42
1:A:357:LEU:HB3	1:A:363:PHE:CD2	2.47	0.42
1:A:432:LEU:C	1:A:433:GLU:CG	2.92	0.42
1:A:673:GLU:O	1:A:676:ALA:HB3	2.19	0.42
1:B:275:MET:HG2	1:B:309:ILE:HD11	2.01	0.42
1:B:508:MET:SD	1:C:695:CYS:HB2	2.60	0.42
1:B:667:ALA:HB3	1:B:670:VAL:HG23	2.00	0.42
1:B:669:ASP:HB2	1:B:733:ARG:HH12	1.84	0.42
2:B:900:ADP:PB	3:B:915:AF3:F1	2.68	0.42
1:C:303:ILE:HD11	1:C:345:ALA:HB2	2.01	0.42
1:C:414:LEU:HD12	1:C:455:ALA:HB1	2.01	0.42
1:B:504:LEU:N	1:B:504:LEU:HD12	2.35	0.42
1:C:483:GLU:OE1	1:C:486:LYS:HD2	2.20	0.42
1:A:203:TYR:C	1:A:205:ASP:N	2.77	0.42
1:A:329:LEU:HD23	1:A:357:LEU:CD2	2.50	0.42
1:A:526:LEU:O	1:A:530:ALA:HB2	2.19	0.42
1:A:555:SER:C	1:A:557:ALA:N	2.77	0.42
1:A:632:ALA:HA	1:A:635:ARG:CG	2.47	0.42
1:B:169:ASP:HB3	1:B:170:PRO:CD	2.31	0.42
1:B:203:TYR:C	1:B:205:ASP:N	2.76	0.42
1:B:259:ALA:C	1:B:261:GLU:H	2.27	0.42
1:B:303:ILE:HD11	1:B:345:ALA:HB2	2.01	0.42
1:B:623:THR:C	1:B:625:ARG:H	2.27	0.42
1:C:213:LEU:O	1:C:214:ALA:C	2.61	0.42
1:C:215:GLN:O	1:C:219:MET:HG3	2.19	0.42
1:A:213:LEU:O	1:A:214:ALA:C	2.62	0.42
1:A:243:LEU:HD23	1:A:369:ILE:HD11	2.01	0.42
1:A:388:MET:HE2	1:A:390:LEU:HD21	2.01	0.42
1:B:123:VAL:O	1:B:126:ILE:HG12	2.19	0.42
1:B:388:MET:HE2	1:B:390:LEU:HD21	2.01	0.42
1:B:528:ALA:C	1:B:531:ILE:HG22	2.45	0.42
1:B:673:GLU:O	1:B:676:ALA:HB3	2.18	0.42
1:C:123:VAL:O	1:C:126:ILE:HG12	2.20	0.42
1:C:503:PHE:CZ	1:C:510:PRO:HG3	2.55	0.42
1:C:649:ASP:OD2	1:C:651:LYS:HB2	2.20	0.42
1:A:136:LYS:HB3	1:A:137:PRO:CD	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:ILE:CD1	1:A:213:LEU:CD1	2.94	0.42
1:A:360:PHE:CD1	1:A:360:PHE:N	2.87	0.42
1:A:661:LEU:O	1:A:664:SER:HB2	2.19	0.42
1:B:38:VAL:HG21	1:B:72:LEU:HD12	2.01	0.42
1:B:256:ARG:HH11	1:B:256:ARG:HG3	1.85	0.42
1:B:499:HIS:C	1:B:501:ASP:H	2.28	0.42
1:C:114:ILE:CD1	1:C:176:VAL:HG22	2.48	0.42
1:C:135:LEU:N	1:C:135:LEU:CD2	2.82	0.42
1:C:240:GLY:HA3	1:C:363:PHE:HA	2.01	0.42
1:C:256:ARG:HH11	1:C:256:ARG:HG3	1.84	0.42
1:C:359:ARG:C	1:C:361:GLY:N	2.78	0.42
1:C:436:THR:OG1	1:C:437:ILE:N	2.52	0.42
1:C:464:LEU:HD11	1:C:466:GLU:HB2	1.93	0.42
1:B:35:ASP:HB3	1:B:38:VAL:CG1	2.49	0.42
1:B:318:GLY:O	1:B:322:ARG:HG3	2.20	0.42
1:B:359:ARG:C	1:B:361:GLY:N	2.78	0.42
1:B:377:ARG:HD2	1:B:403:THR:OG1	2.19	0.42
1:B:414:LEU:HD12	1:B:455:ALA:HB1	2.00	0.42
1:B:542:ILE:N	1:B:542:ILE:HD12	2.35	0.42
1:B:555:SER:C	1:B:557:ALA:N	2.76	0.42
1:B:665:PRO:HG2	1:B:731:ILE:HD12	2.01	0.42
1:C:86:ARG:NH2	1:C:202:GLY:HA3	2.35	0.42
1:C:210:ARG:HH22	1:C:375:THR:HG22	1.85	0.42
1:C:237:PRO:O	1:C:238:PRO:C	2.59	0.42
1:A:520:PRO:HG3	1:A:624:ASN:HB2	2.01	0.42
1:B:497:VAL:HG13	1:B:498:GLU:N	2.35	0.42
1:B:524:LYS:HB2	3:B:915:AF3:F3	2.10	0.42
1:C:254:ILE:H	1:C:254:ILE:HG13	1.52	0.42
1:C:419:ALA:O	1:C:423:ILE:HG13	2.19	0.42
1:C:438:ASP:OD2	1:C:440:GLU:HB2	2.20	0.42
1:C:580:ASP:OD2	1:C:625:ARG:HB2	2.20	0.42
1:A:152:PHE:HD1	1:A:152:PHE:H	1.66	0.42
1:A:248:GLY:C	1:A:250:GLY:N	2.73	0.42
1:B:519:PRO:HA	1:B:520:PRO:HD3	1.93	0.42
1:C:138:TYR:CZ	1:C:144:ARG:HD3	2.55	0.42
1:C:259:ALA:C	1:C:261:GLU:H	2.28	0.42
1:C:360:PHE:CD1	1:C:360:PHE:N	2.88	0.42
1:C:427:MET:HG3	1:C:432:LEU:HB2	2.02	0.42
1:C:493:VAL:HG21	1:C:531:ILE:HD11	2.01	0.42
1:A:419:ALA:O	1:A:423:ILE:HG13	2.20	0.41
1:B:243:LEU:HD23	1:B:369:ILE:HD11	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:253:LEU:HD12	2:B:807:ADP:H2'	2.02	0.41
1:B:612:SER:HB3	1:B:615:LYS:CB	2.46	0.41
1:C:32:ILE:HG12	1:C:83:ARG:CD	2.45	0.41
1:C:48:GLU:CB	1:C:49:LEU:HD12	2.50	0.41
1:C:147:ARG:CG	1:C:148:LYS:H	2.32	0.41
1:C:335:LEU:HD11	1:C:343:VAL:HG21	2.02	0.41
1:C:501:ASP:CG	1:C:502:LYS:H	2.27	0.41
1:C:664:SER:HA	1:C:665:PRO:HD3	1.79	0.41
1:A:235:VAL:HG12	1:A:236:LYS:N	2.35	0.41
1:A:259:ALA:C	1:A:261:GLU:H	2.27	0.41
1:A:303:ILE:HD12	1:A:306:LEU:HD13	2.02	0.41
1:A:329:LEU:HD23	1:A:357:LEU:HD23	2.02	0.41
1:A:741:ARG:HA	1:A:741:ARG:NE	2.31	0.41
1:B:35:ASP:HB3	1:B:38:VAL:HG12	2.02	0.41
1:B:114:ILE:CD1	1:B:176:VAL:HG22	2.49	0.41
1:B:152:PHE:H	1:B:152:PHE:HD1	1.67	0.41
1:C:252:THR:HA	1:C:302:PHE:CE2	2.55	0.41
1:C:430:ILE:HG22	1:C:430:ILE:O	2.19	0.41
1:A:35:ASP:HB3	1:A:38:VAL:CG1	2.49	0.41
1:A:359:ARG:NH1	2:B:807:ADP:O3B	2.53	0.41
1:A:633:ILE:HG21	1:A:639:LEU:HD12	1.96	0.41
1:A:653:ARG:O	1:A:657:LEU:HG	2.19	0.41
1:A:659:ALA:HA	1:A:662:ARG:HG3	2.02	0.41
1:B:209:CYS:HA	1:B:212:GLN:HG2	2.02	0.41
1:C:113:ARG:HG3	1:C:169:ASP:HB2	2.02	0.41
1:C:460:ASN:C	1:C:462:SER:H	2.26	0.41
1:C:612:SER:HB3	1:C:615:LYS:CB	2.46	0.41
1:A:244:TYR:CD1	1:A:350:PRO:HG3	2.55	0.41
1:A:502:LYS:NZ	1:B:706:GLU:OE1	2.53	0.41
1:A:506:PHE:CD2	1:B:699:ILE:CG1	2.95	0.41
1:B:215:GLN:O	1:B:219:MET:HG3	2.20	0.41
1:B:665:PRO:HG2	1:B:731:ILE:CD1	2.51	0.41
1:C:192:GLU:HB2	1:C:195:GLU:OE1	2.20	0.41
1:C:220:VAL:CG1	1:C:342:ILE:HD13	2.50	0.41
1:C:423:ILE:C	1:C:425:LYS:N	2.78	0.41
1:C:489:LEU:HD22	1:C:531:ILE:HG12	2.01	0.41
1:A:22:ARG:C	1:A:24:ASN:N	2.73	0.41
1:A:335:LEU:HD11	1:A:343:VAL:HG21	2.02	0.41
1:A:414:LEU:HD11	1:A:456:LEU:HD23	2.02	0.41
1:A:514:VAL:CG1	1:A:515:LEU:N	2.83	0.41
1:B:113:ARG:HG3	1:B:169:ASP:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:360:PHE:CD1	1:B:360:PHE:N	2.87	0.41
1:B:360:PHE:HE2	1:C:410:ASP:OD1	2.03	0.41
1:B:567:ARG:HG3	1:B:615:LYS:HE2	2.02	0.41
1:C:32:ILE:O	1:C:32:ILE:HG22	2.20	0.41
1:C:309:ILE:O	1:C:311:PRO:HD2	2.18	0.41
1:C:329:LEU:HD23	1:C:357:LEU:HD23	2.02	0.41
1:C:583:ALA:C	1:C:585:ALA:N	2.76	0.41
1:A:359:ARG:C	1:A:361:GLY:N	2.78	0.41
1:A:414:LEU:HD12	1:A:455:ALA:HB1	2.01	0.41
1:A:489:LEU:CD2	1:A:531:ILE:HD13	2.40	0.41
1:B:525:THR:C	1:B:527:LEU:N	2.78	0.41
1:B:741:ARG:HA	1:B:741:ARG:NE	2.30	0.41
1:C:92:LEU:O	1:C:94:VAL:HG13	2.20	0.41
1:C:467:THR:C	1:C:468:VAL:HG23	2.45	0.41
1:C:586:ARG:HH11	1:C:598:ASP:HB2	1.84	0.41
1:C:648:PRO:HD3	1:C:683:SER:HA	2.02	0.41
1:A:209:CYS:HA	1:A:212:GLN:HG2	2.02	0.41
1:A:373:ASP:C	1:A:377:ARG:NH1	2.79	0.41
1:A:427:MET:HA	1:A:431:ASP:HB2	2.02	0.41
1:B:243:LEU:HB3	1:B:369:ILE:CD1	2.51	0.41
1:B:311:PRO:C	1:B:313:ARG:H	2.27	0.41
1:B:319:GLU:OE2	1:B:323:ARG:NH2	2.54	0.41
1:B:373:ASP:C	1:B:377:ARG:NH1	2.79	0.41
1:B:515:LEU:HD23	1:B:516:PHE:O	2.20	0.41
1:C:209:CYS:HA	1:C:212:GLN:HG2	2.03	0.41
1:C:233:ILE:CG1	1:C:235:VAL:HG23	2.50	0.41
1:C:408:GLY:HA3	2:C:807:ADP:C8	2.56	0.41
1:C:427:MET:SD	1:C:433:GLU:CG	3.09	0.41
1:A:114:ILE:HD13	1:A:146:ILE:CD1	2.51	0.41
1:A:326:SER:O	1:A:327:GLN:C	2.64	0.41
1:A:423:ILE:C	1:A:425:LYS:N	2.78	0.41
1:A:542:ILE:HD12	1:A:542:ILE:N	2.36	0.41
1:A:699:ILE:O	1:A:702:SER:HB3	2.21	0.41
1:B:89:ARG:HH21	1:B:96:LEU:HD21	1.85	0.41
1:B:479:ILE:HG21	1:B:486:LYS:HE2	2.03	0.41
1:B:506:PHE:HE2	1:C:699:ILE:HG12	1.83	0.41
1:B:515:LEU:HA	1:B:621:GLY:O	2.21	0.41
1:C:596:ALA:HB1	1:C:630:ASP:CA	2.50	0.41
1:C:613:THR:HG23	1:C:614:LYS:H	1.86	0.41
1:C:741:ARG:HA	1:C:741:ARG:NE	2.30	0.41
1:A:51:LEU:CD2	1:A:104:PRO:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:MET:HB2	1:A:88:VAL:HB	2.02	0.41
1:A:311:PRO:O	1:A:313:ARG:N	2.53	0.41
1:A:503:PHE:CD1	1:B:699:ILE:HD13	2.55	0.41
1:A:521:GLY:CA	1:A:685:ALA:HB2	2.50	0.41
1:A:642:LEU:N	1:A:642:LEU:CD2	2.84	0.41
1:A:682:PHE:CE2	1:A:744:ARG:O	2.74	0.41
1:B:22:ARG:HG3	1:B:22:ARG:HH11	1.85	0.41
1:B:23:PRO:O	1:B:49:LEU:HD21	2.20	0.41
1:B:89:ARG:CZ	1:B:96:LEU:HD21	2.51	0.41
1:B:153:LEU:HD13	1:B:162:GLU:CG	2.51	0.41
1:B:201:VAL:CG1	1:B:202:GLY:N	2.82	0.41
1:B:213:LEU:O	1:B:214:ALA:C	2.63	0.41
1:B:235:VAL:HG12	1:B:236:LYS:N	2.35	0.41
1:B:244:TYR:CE2	1:B:350:PRO:HG3	2.56	0.41
1:B:540:ILE:CD1	1:B:566:ALA:HB2	2.43	0.41
1:C:43:GLN:HB3	1:C:44:PRO:CD	2.51	0.41
1:C:65:ARG:NH1	1:C:93:ARG:NH1	2.69	0.41
1:C:244:TYR:CD1	1:C:350:PRO:HG3	2.54	0.41
1:C:512:LYS:CE	1:C:611:MET:HE3	2.50	0.41
1:C:559:VAL:HG13	1:C:563:PHE:HE2	1.86	0.41
1:C:657:LEU:O	1:C:658:LYS:C	2.63	0.41
1:A:287:ARG:HD2	1:A:287:ARG:HA	1.88	0.41
1:B:143:TYR:CE1	1:B:178:PRO:HD2	2.55	0.41
1:B:756:GLU:O	1:B:757:MET:C	2.64	0.41
1:C:244:TYR:CE2	1:C:350:PRO:HG3	2.56	0.41
1:C:312:LYS:HG2	1:C:312:LYS:O	2.21	0.41
1:C:373:ASP:C	1:C:377:ARG:NH1	2.79	0.41
1:C:693:ARG:NE	1:C:742:PHE:HB2	2.36	0.41
1:A:135:LEU:N	1:A:135:LEU:CD2	2.84	0.40
1:A:606:THR:C	1:A:608:MET:H	2.30	0.40
1:B:32:ILE:O	1:B:32:ILE:HG22	2.21	0.40
1:B:89:ARG:HG3	1:B:94:VAL:O	2.21	0.40
1:B:92:LEU:CB	1:B:94:VAL:HG22	2.49	0.40
1:B:225:ARG:HD3	1:B:262:THR:HG22	2.03	0.40
1:B:649:ASP:OD1	1:B:652:SER:OG	2.38	0.40
1:C:119:ILE:HG13	1:C:162:GLU:O	2.21	0.40
1:C:329:LEU:HD23	1:C:357:LEU:CD2	2.50	0.40
1:C:514:VAL:CG1	1:C:515:LEU:N	2.84	0.40
1:A:32:ILE:HG12	1:A:83:ARG:CD	2.47	0.40
1:A:95:ARG:HG3	1:A:225:ARG:HH12	1.86	0.40
1:A:283:GLU:O	1:A:327:GLN:NE2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:PHE:CD1	1:A:301:ILE:HD12	2.55	0.40
1:A:348:ASN:N	1:A:348:ASN:HD22	2.18	0.40
1:A:381:LEU:C	1:A:383:ILE:N	2.78	0.40
1:A:487:ARG:HB2	1:A:487:ARG:HH11	1.86	0.40
1:A:556:GLU:OE2	1:A:599:ARG:NH1	2.53	0.40
1:A:582:ILE:CG2	1:A:598:ASP:CG	2.94	0.40
1:A:592:ASP:C	1:A:594:GLY:H	2.29	0.40
1:B:38:VAL:HG22	1:B:39:VAL:N	2.37	0.40
1:B:368:ASP:HB2	1:B:568:GLN:CD	2.47	0.40
1:B:423:ILE:C	1:B:425:LYS:N	2.79	0.40
1:B:653:ARG:O	1:B:657:LEU:HG	2.20	0.40
1:B:660:ASN:ND2	1:B:688:THR:OG1	2.54	0.40
1:C:152:PHE:H	1:C:152:PHE:HD1	1.68	0.40
1:C:226:HIS:C	1:C:228:ALA:H	2.29	0.40
1:C:243:LEU:HB3	1:C:369:ILE:CD1	2.51	0.40
1:C:381:LEU:C	1:C:383:ILE:N	2.78	0.40
1:C:423:ILE:C	1:C:425:LYS:H	2.29	0.40
1:C:653:ARG:NE	1:C:679:THR:O	2.54	0.40
1:A:221:GLU:O	1:A:225:ARG:CB	2.62	0.40
1:A:243:LEU:HD11	1:A:344:MET:HE2	2.03	0.40
1:A:385:THR:HB	1:A:390:LEU:HD11	2.04	0.40
1:A:452:PHE:O	1:A:453:ARG:C	2.65	0.40
1:A:476:TRP:NE1	1:A:534:GLU:HB2	2.35	0.40
1:A:535:CYS:O	1:A:536:GLN:C	2.63	0.40
1:A:645:ILE:HA	1:A:646:PRO:HD2	1.88	0.40
1:B:43:GLN:HB3	1:B:44:PRO:CD	2.51	0.40
1:B:119:ILE:HG13	1:B:162:GLU:O	2.21	0.40
1:B:126:ILE:HG23	1:B:159:ARG:CZ	2.51	0.40
1:B:335:LEU:HD11	1:B:343:VAL:HG21	2.03	0.40
1:B:657:LEU:C	1:B:659:ALA:N	2.79	0.40
1:C:92:LEU:CB	1:C:94:VAL:HG22	2.51	0.40
1:C:201:VAL:CG1	1:C:202:GLY:N	2.82	0.40
1:C:423:ILE:O	1:C:425:LYS:N	2.55	0.40
1:C:452:PHE:O	1:C:453:ARG:C	2.64	0.40
1:C:579:LEU:HD22	1:C:629:ILE:HD12	2.03	0.40
1:C:608:MET:SD	1:C:638:ARG:HB3	2.61	0.40
1:C:659:ALA:O	1:C:662:ARG:HG3	2.21	0.40
1:A:225:ARG:HD3	1:A:262:THR:HG22	2.04	0.40
1:A:254:ILE:O	1:A:255:ALA:C	2.65	0.40
1:A:259:ALA:CB	1:A:300:ILE:HD12	2.52	0.40
1:A:756:GLU:O	1:A:757:MET:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:29:ASP:CG	1:B:30:GLU:H	2.30	0.40
1:B:136:LYS:HB3	1:B:137:PRO:CD	2.37	0.40
1:B:239:ARG:HD2	1:B:335:LEU:CB	2.51	0.40
1:B:642:LEU:N	1:B:642:LEU:CD2	2.84	0.40
1:B:657:LEU:HB2	1:B:672:LEU:HD13	2.03	0.40
1:C:246:PRO:O	1:C:247:PRO:C	2.64	0.40
1:C:256:ARG:HH22	1:C:268:LEU:HD22	1.87	0.40
1:C:388:MET:HE2	1:C:390:LEU:HD21	2.03	0.40
1:C:702:SER:O	1:C:706:GLU:HG3	2.20	0.40
1:C:756:GLU:O	1:C:757:MET:C	2.64	0.40
1:A:133:VAL:HG13	1:A:443:ASN:HD22	1.86	0.40
1:A:145:PRO:HA	1:A:175:ILE:HA	2.02	0.40
1:A:244:TYR:CE2	1:A:350:PRO:HG3	2.57	0.40
1:A:248:GLY:O	1:A:409:ALA:HB2	2.21	0.40
1:A:282:SER:HB2	1:A:283:GLU:OE1	2.22	0.40
1:A:313:ARG:O	1:A:316:THR:HG22	2.22	0.40
1:A:368:ASP:HB2	1:A:568:GLN:CD	2.46	0.40
1:A:377:ARG:HD2	1:A:403:THR:OG1	2.21	0.40
1:A:476:TRP:HE1	1:A:534:GLU:CB	2.34	0.40
1:A:661:LEU:HD21	1:A:691:CYS:SG	2.62	0.40
1:B:32:ILE:HG12	1:B:83:ARG:CD	2.48	0.40
1:B:140:LEU:O	1:B:141:GLU:C	2.65	0.40
1:B:348:ASN:N	1:B:348:ASN:HD22	2.19	0.40
1:B:357:LEU:HB3	1:B:363:PHE:CD2	2.49	0.40
1:B:372:PRO:CD	1:B:407:VAL:HA	2.52	0.40
1:B:502:LYS:HD3	1:C:703:ILE:HG12	2.02	0.40
1:C:114:ILE:HD13	1:C:146:ILE:HD11	2.03	0.40
1:C:187:GLU:OE2	1:C:188:PRO:HD2	2.20	0.40
1:C:582:ILE:O	1:C:582:ILE:HG22	2.21	0.40
1:C:623:THR:C	1:C:625:ARG:H	2.28	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	711/806 (88%)	536 (75%)	155 (22%)	20 (3%)	4	24
1	B	719/806 (89%)	548 (76%)	148 (21%)	23 (3%)	3	21
1	C	719/806 (89%)	533 (74%)	163 (23%)	23 (3%)	3	21
All	All	2149/2418 (89%)	1617 (75%)	466 (22%)	66 (3%)	3	22

All (66) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	360	PHE
1	B	360	PHE
1	C	360	PHE
1	A	185	GLU
1	A	353	ILE
1	B	185	GLU
1	B	353	ILE
1	C	185	GLU
1	C	353	ILE
1	A	30	GLU
1	A	98	ASP
1	A	313	ARG
1	A	508	MET
1	B	30	GLU
1	B	98	ASP
1	B	204	ASP
1	B	315	LYS
1	B	588	GLY
1	C	30	GLU
1	C	204	ASP
1	A	22	ARG
1	A	36	ASN
1	A	178	PRO
1	A	204	ASP
1	A	233	ILE
1	A	412	ALA
1	B	36	ASN
1	B	233	ILE
1	B	311	PRO
1	B	412	ALA
1	C	22	ARG

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Mol	Chain	Res	Type
1	C	36	ASN
1	C	98	ASP
1	C	178	PRO
1	C	233	ILE
1	C	412	ALA
1	C	431	ASP
1	C	522	CYS
1	C	597	ALA
1	C	647	LEU
1	A	338	ARG
1	B	178	PRO
1	B	338	ARG
1	B	462	SER
1	B	500	PRO
1	C	310	ALA
1	C	338	ARG
1	C	660	ASN
1	C	702	SER
1	A	510	PRO
1	B	22	ARG
1	B	310	ALA
1	C	123	VAL
1	A	123	VAL
1	B	123	VAL
1	B	188	PRO
1	B	729	PRO
1	C	460	ASN
1	A	188	PRO
1	A	399	VAL
1	A	460	ASN
1	B	460	ASN
1	C	399	VAL
1	B	399	VAL
1	C	188	PRO
1	A	310	ALA

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	612/678 (90%)	605 (99%)	7 (1%)	65	74
1	B	615/678 (91%)	607 (99%)	8 (1%)	61	72
1	C	615/678 (91%)	607 (99%)	8 (1%)	61	72
All	All	1842/2034 (91%)	1819 (99%)	23 (1%)	63	73

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	183	HIS
1	A	283	GLU
1	A	432	LEU
1	A	437	ILE
1	A	473	GLN
1	A	556	GLU
1	A	738	GLU
1	B	183	HIS
1	B	283	GLU
1	B	432	LEU
1	B	473	GLN
1	B	524	LYS
1	B	556	GLU
1	B	579	LEU
1	B	738	GLU
1	C	183	HIS
1	C	283	GLU
1	C	434	ASP
1	C	473	GLN
1	C	556	GLU
1	C	579	LEU
1	C	649	ASP
1	C	738	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (45) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	43	GLN
1	A	90	ASN
1	A	103	GLN
1	A	260	ASN

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Mol	Chain	Res	Type
1	A	285	ASN
1	A	317	HIS
1	A	348	ASN
1	A	401	ASN
1	A	443	ASN
1	A	458	GLN
1	A	490	GLN
1	A	494	GLN
1	A	499	HIS
1	A	533	ASN
1	A	641	GLN
1	A	660	ASN
1	B	43	GLN
1	B	90	ASN
1	B	103	GLN
1	B	260	ASN
1	B	285	ASN
1	B	327	GLN
1	B	348	ASN
1	B	401	ASN
1	B	458	GLN
1	B	460	ASN
1	B	490	GLN
1	B	533	ASN
1	B	589	ASN
1	B	641	GLN
1	B	660	ASN
1	C	43	GLN
1	C	90	ASN
1	C	103	GLN
1	C	260	ASN
1	C	285	ASN
1	C	327	GLN
1	C	348	ASN
1	C	401	ASN
1	C	533	ASN
1	C	602	ASN
1	C	641	GLN
1	C	660	ASN
1	C	760	GLN
1	C	763	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

9 ligands are modelled in this entry.

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
3	AF3	A	915	-	0,3,3	-	-	-		
2	ADP	A	807	-	28,29,29	1.78	4 (14%)	43,45,45	1.93	7 (16%)
2	ADP	B	900	-	28,29,29	1.70	5 (17%)	43,45,45	1.98	9 (20%)
3	AF3	B	915	-	0,3,3	-	-	-		
3	AF3	C	915	-	0,3,3	-	-	-		
2	ADP	C	807	-	28,29,29	1.94	5 (17%)	43,45,45	1.87	7 (16%)
2	ADP	C	900	-	28,29,29	1.74	4 (14%)	43,45,45	1.97	7 (16%)
2	ADP	A	900	-	28,29,29	1.87	5 (17%)	43,45,45	1.85	5 (11%)
2	ADP	B	807	-	28,29,29	1.92	6 (21%)	43,45,45	1.93	7 (16%)

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
2	ADP	A	807	-	-	5/16/32/32	0/3/3/3
2	ADP	B	900	-	-	4/16/32/32	0/3/3/3
2	ADP	C	807	-	-	5/16/32/32	0/3/3/3
2	ADP	C	900	-	-	5/16/32/32	0/3/3/3
2	ADP	A	900	-	-	5/16/32/32	0/3/3/3
2	ADP	B	807	-	-	5/16/32/32	0/3/3/3

All (29) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	807	ADP	C5-N7	-5.91	1.28	1.39
2	C	900	ADP	C5-N7	-5.85	1.28	1.39
2	A	900	ADP	C5-N7	-5.72	1.28	1.39
2	B	807	ADP	C5-N7	-5.58	1.28	1.39
2	A	807	ADP	C5-N7	-5.36	1.29	1.39
2	B	900	ADP	C5-N7	-5.17	1.29	1.39
2	B	807	ADP	PA-O3A	-5.06	1.54	1.59
2	A	900	ADP	C4-N9	-4.82	1.27	1.37
2	C	807	ADP	PA-O3A	-4.33	1.54	1.59
2	C	807	ADP	C4-N9	-4.20	1.29	1.37
2	C	900	ADP	C4-N9	-3.93	1.29	1.37
2	A	807	ADP	PA-O3A	-3.72	1.55	1.59
2	B	900	ADP	C4-N9	-3.40	1.30	1.37
2	A	807	ADP	C4-N9	-3.28	1.30	1.37
2	A	900	ADP	C8-N9	-3.16	1.32	1.37
2	B	807	ADP	C4-N9	-3.11	1.31	1.37
2	B	900	ADP	PA-O3A	-2.75	1.56	1.59
2	C	807	ADP	C8-N9	-2.58	1.33	1.37
2	A	900	ADP	PA-O3A	-2.54	1.56	1.59
2	C	900	ADP	PA-O2A	-2.23	1.45	1.55
2	A	807	ADP	PA-O2A	-2.18	1.45	1.55
2	B	807	ADP	PA-O2A	-2.16	1.45	1.55
2	C	807	ADP	PA-O2A	-2.12	1.45	1.55
2	C	900	ADP	C8-N9	-2.08	1.34	1.37
2	B	900	ADP	PA-O2A	-2.08	1.45	1.55
2	B	807	ADP	C1'-N9	2.08	1.52	1.46
2	B	900	ADP	C1'-N9	2.07	1.52	1.46
2	A	900	ADP	PA-O2A	-2.02	1.46	1.55
2	B	807	ADP	PB-O3B	-2.01	1.47	1.54

All (42) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	807	ADP	N3-C2-N1	-7.26	117.58	128.58
2	B	900	ADP	N3-C2-N1	-6.90	118.13	128.58
2	C	900	ADP	N3-C2-N1	-6.82	118.26	128.58
2	A	807	ADP	N3-C2-N1	-6.72	118.41	128.58
2	B	807	ADP	N3-C2-N1	-6.57	118.64	128.58
2	A	900	ADP	N3-C2-N1	-6.41	118.87	128.58
2	B	807	ADP	C5-C4-N3	-5.19	119.57	126.72
2	A	807	ADP	C5-C4-N3	-5.04	119.78	126.72
2	B	900	ADP	C5-C4-N3	-4.92	119.94	126.72
2	C	900	ADP	C5-C4-N3	-4.89	119.98	126.72
2	A	900	ADP	C5-C4-N3	-4.78	120.14	126.72
2	A	900	ADP	C2-N3-C4	4.61	123.10	111.83
2	C	807	ADP	C2-N3-C4	4.47	122.74	111.83
2	C	807	ADP	C5-C4-N3	-4.44	120.60	126.72
2	B	900	ADP	C2-N3-C4	4.44	122.67	111.83
2	B	807	ADP	C2-N3-C4	4.36	122.49	111.83
2	C	900	ADP	C2-N3-C4	4.36	122.47	111.83
2	A	807	ADP	C2-N3-C4	4.29	122.31	111.83
2	B	900	ADP	N3-C4-N9	3.93	133.86	127.17
2	A	807	ADP	N3-C4-N9	3.78	133.60	127.17
2	B	807	ADP	N3-C4-N9	3.71	133.48	127.17
2	C	900	ADP	N3-C4-N9	3.67	133.41	127.17
2	A	807	ADP	C5-N7-C8	3.37	108.75	103.45
2	B	807	ADP	C5-N7-C8	3.32	108.67	103.45
2	C	807	ADP	N3-C4-N9	3.20	132.60	127.17
2	A	900	ADP	N3-C4-N9	3.14	132.51	127.17
2	C	900	ADP	C5-N7-C8	3.14	108.39	103.45
2	B	900	ADP	C5-N7-C8	3.03	108.21	103.45
2	B	900	ADP	N9-C8-N7	-2.99	109.70	113.94
2	B	807	ADP	C4-C5-N7	-2.94	107.23	110.58
2	A	900	ADP	O4'-C4'-C5'	-2.90	100.05	109.33
2	A	807	ADP	C4-C5-N7	-2.80	107.38	110.58
2	C	900	ADP	N9-C8-N7	-2.79	109.97	113.94
2	A	807	ADP	N9-C8-N7	-2.79	109.98	113.94
2	C	900	ADP	C4-C5-N7	-2.71	107.48	110.58
2	C	807	ADP	N9-C8-N7	-2.64	110.20	113.94
2	B	807	ADP	N9-C8-N7	-2.52	110.36	113.94
2	C	807	ADP	C5-N7-C8	2.48	107.35	103.45
2	B	900	ADP	C4-C5-N7	-2.33	107.92	110.58
2	C	807	ADP	C2-N1-C6	2.16	122.28	118.73
2	B	900	ADP	C4-N9-C8	2.13	107.97	105.74
2	B	900	ADP	C2-N1-C6	2.01	122.03	118.73

There are no chirality outliers.

All (29) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	807	ADP	C5'-O5'-PA-O1A
2	A	807	ADP	C5'-O5'-PA-O2A
2	A	807	ADP	C5'-O5'-PA-O3A
2	A	900	ADP	C5'-O5'-PA-O1A
2	A	900	ADP	C5'-O5'-PA-O2A
2	A	900	ADP	C5'-O5'-PA-O3A
2	B	807	ADP	C5'-O5'-PA-O1A
2	B	807	ADP	C5'-O5'-PA-O2A
2	B	807	ADP	C5'-O5'-PA-O3A
2	B	900	ADP	C5'-O5'-PA-O1A
2	B	900	ADP	C5'-O5'-PA-O2A
2	B	900	ADP	C5'-O5'-PA-O3A
2	C	807	ADP	C5'-O5'-PA-O1A
2	C	807	ADP	C5'-O5'-PA-O2A
2	C	807	ADP	C5'-O5'-PA-O3A
2	C	900	ADP	C5'-O5'-PA-O1A
2	C	900	ADP	C5'-O5'-PA-O2A
2	C	900	ADP	C5'-O5'-PA-O3A
2	A	900	ADP	O4'-C4'-C5'-O5'
2	A	807	ADP	O4'-C4'-C5'-O5'
2	A	900	ADP	C3'-C4'-C5'-O5'
2	A	807	ADP	PA-O3A-PB-O2B
2	C	807	ADP	PA-O3A-PB-O2B
2	C	900	ADP	C3'-C4'-C5'-O5'
2	B	807	ADP	O4'-C4'-C5'-O5'
2	B	807	ADP	PA-O3A-PB-O2B
2	C	807	ADP	O4'-C4'-C5'-O5'
2	C	900	ADP	O4'-C4'-C5'-O5'
2	B	900	ADP	PB-O3A-PA-O2A

There are no ring outliers.

9 monomers are involved in 39 short contacts:

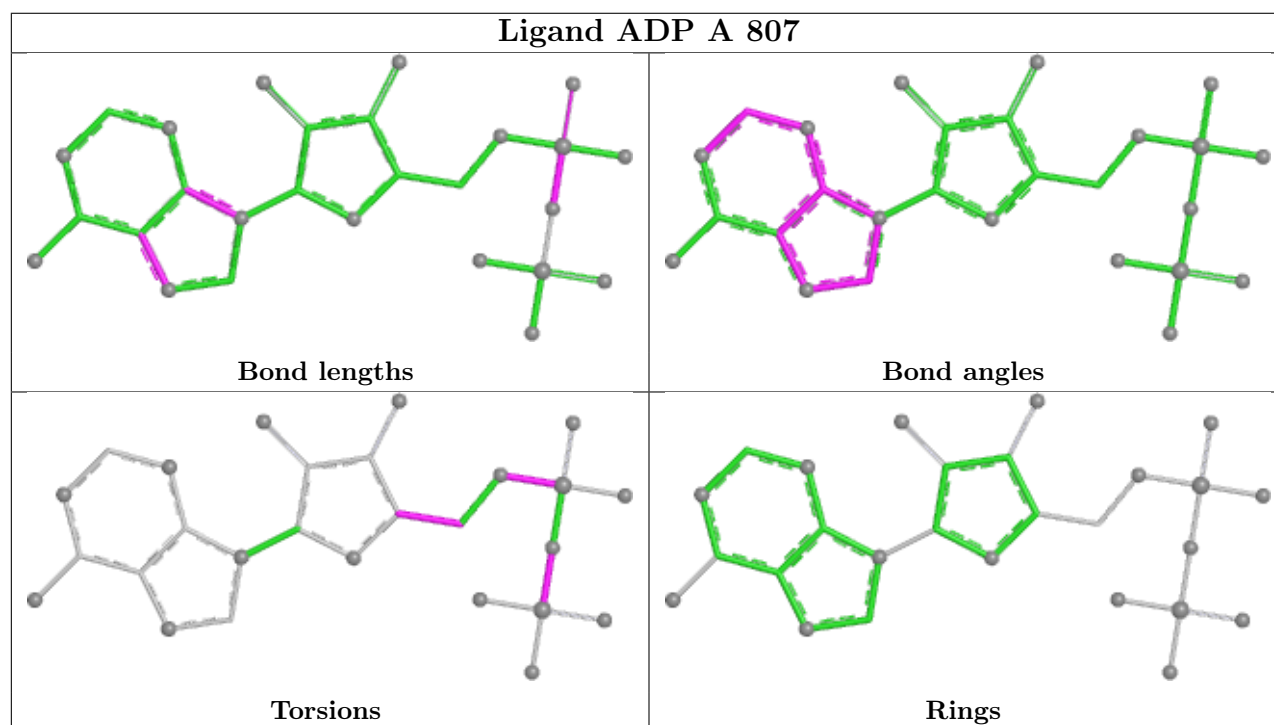
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	915	AF3	2	0
2	A	807	ADP	4	0
2	B	900	ADP	8	0
3	B	915	AF3	9	0
3	C	915	AF3	2	0
2	C	807	ADP	7	0
2	C	900	ADP	4	0

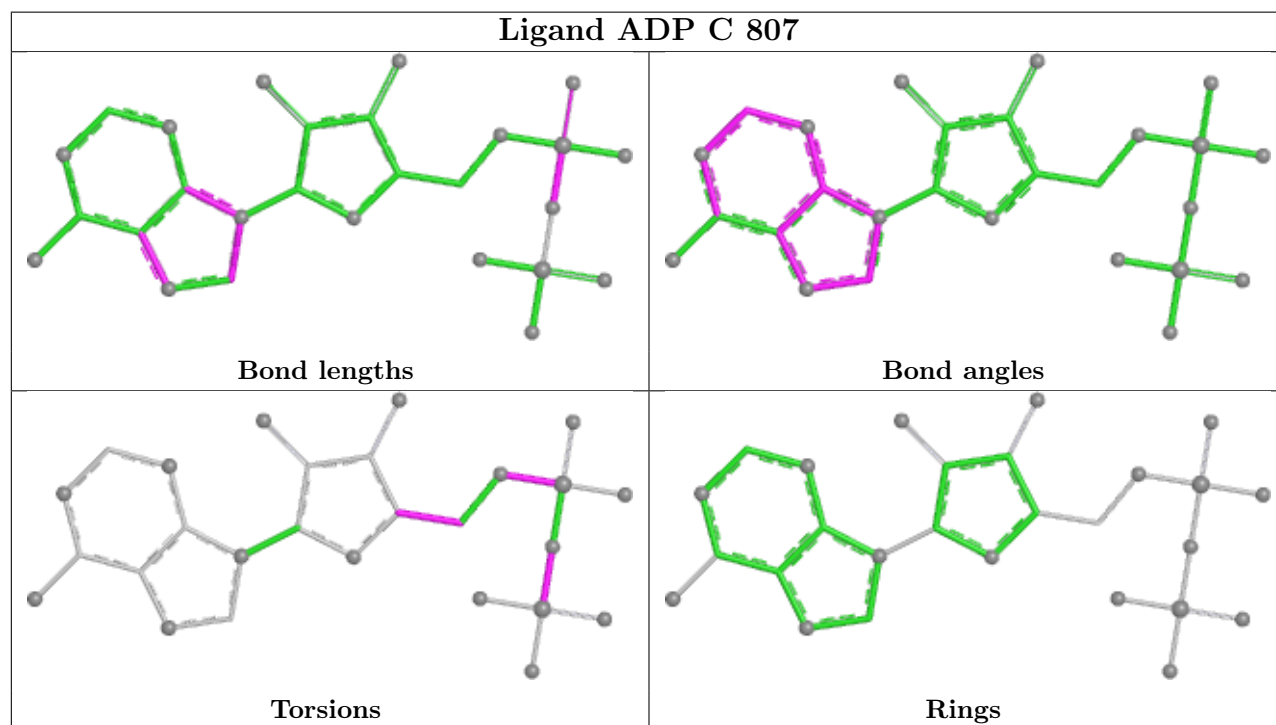
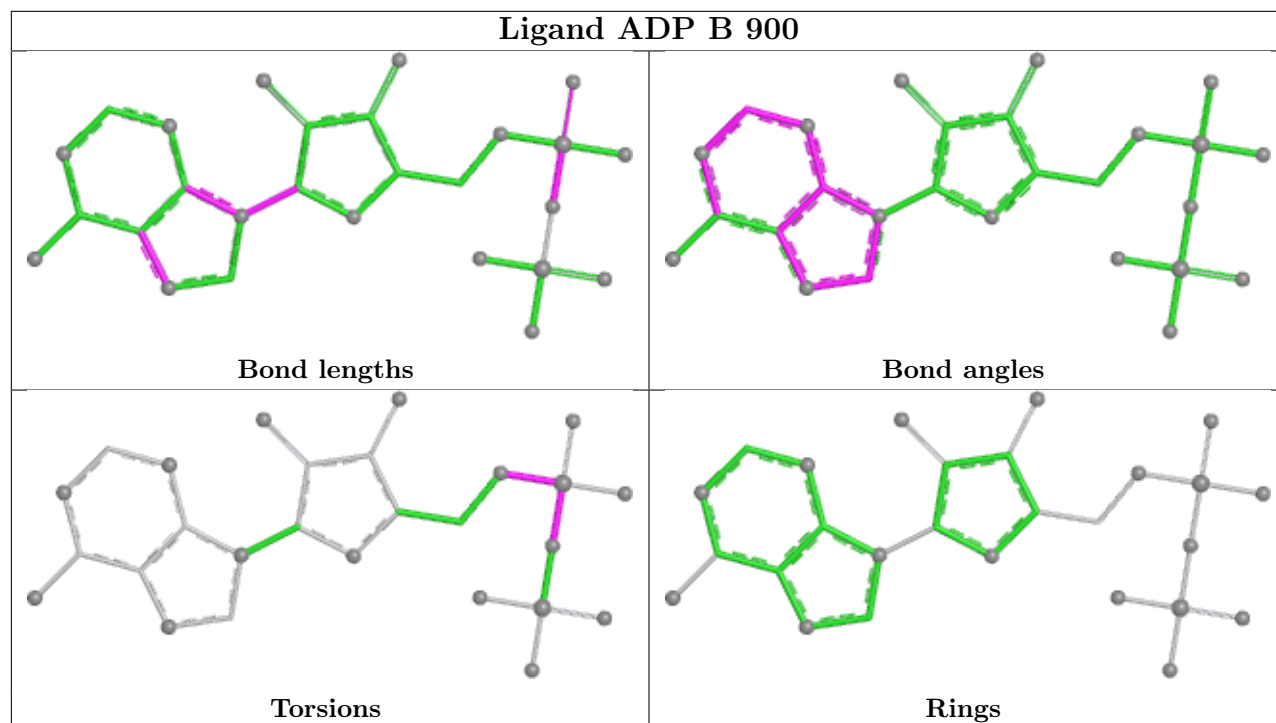
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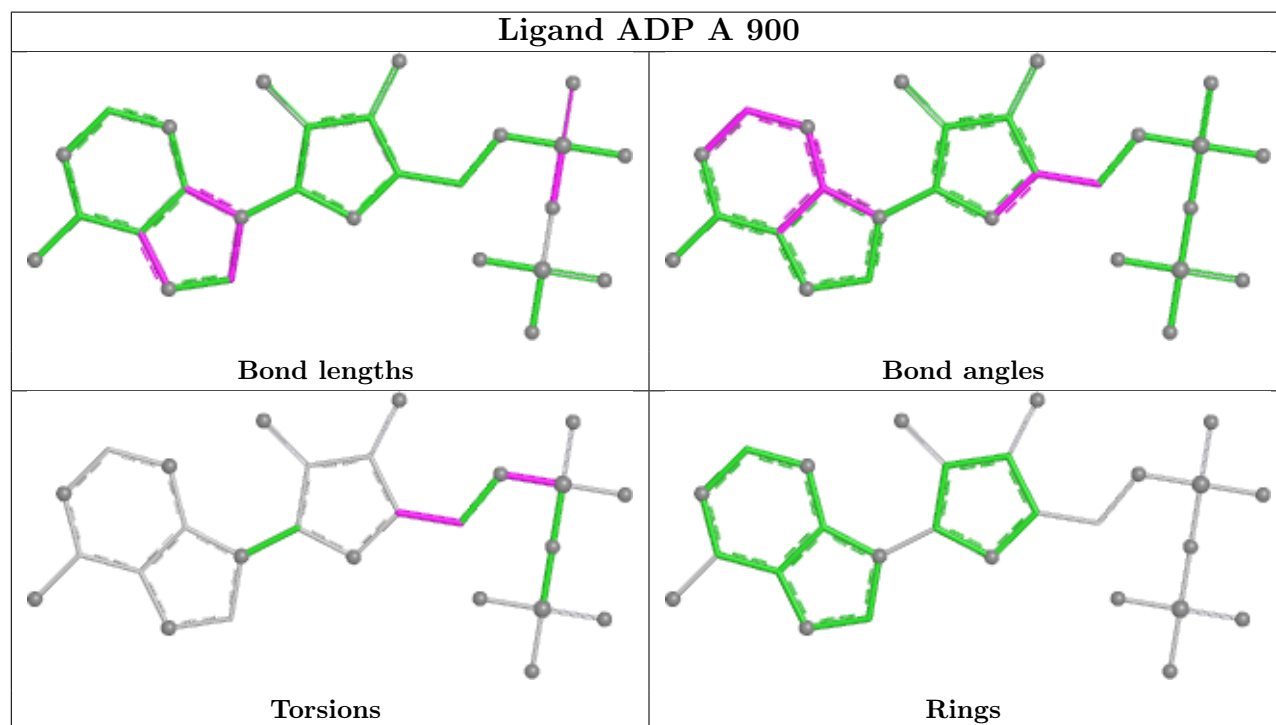
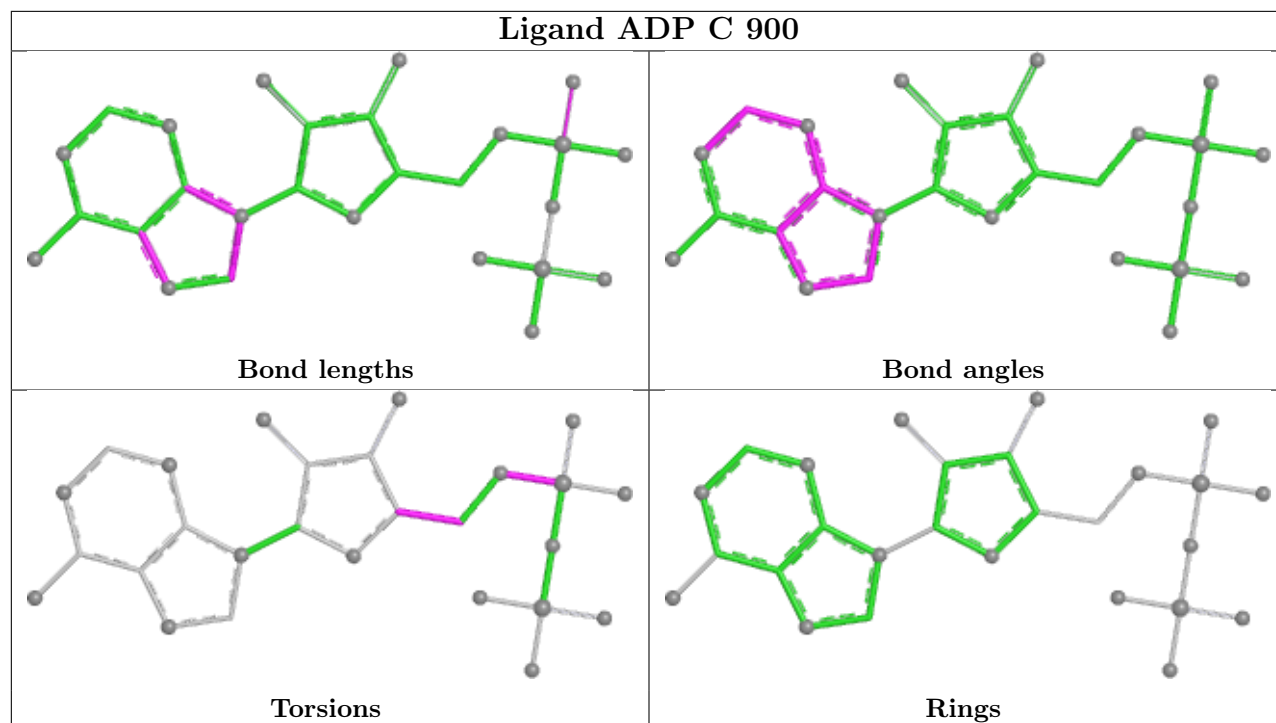
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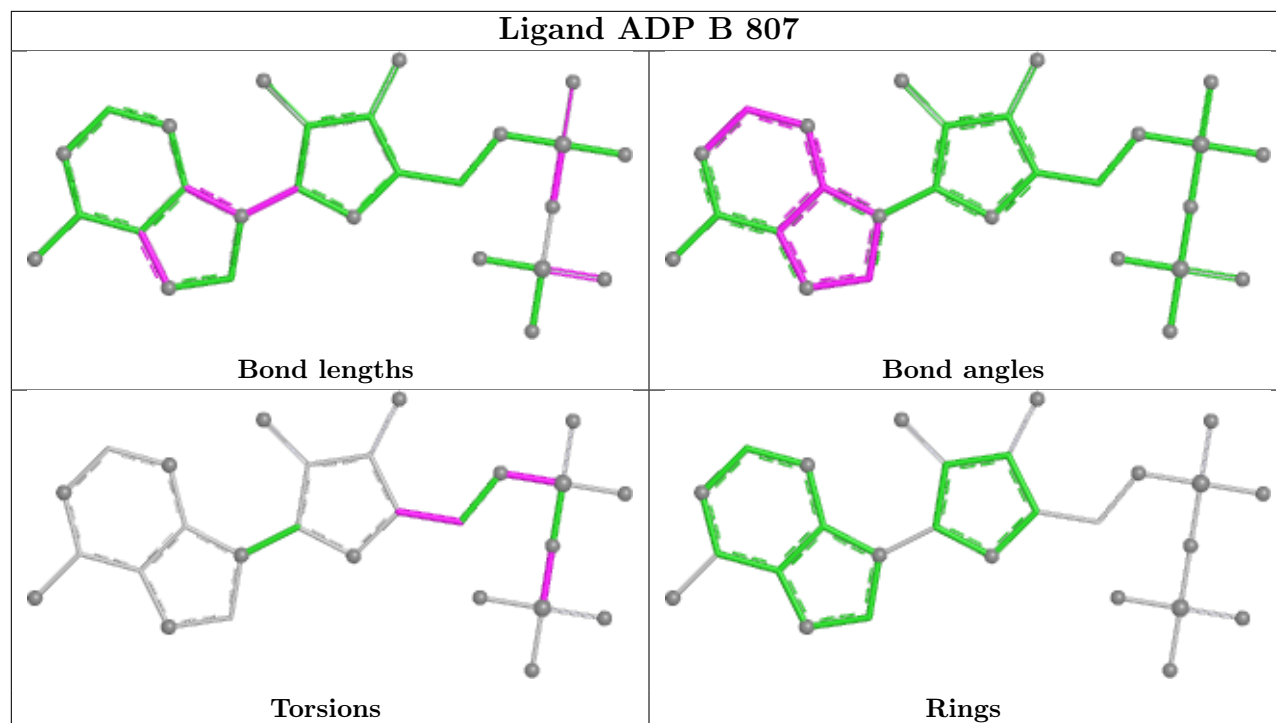
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	900	ADP	4	0
2	B	807	ADP	6	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.









5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	719/806 (89%)	-0.02	12 (1%) 69 55	50, 267, 356, 574	0
1	B	723/806 (89%)	-0.05	8 (1%) 78 63	49, 264, 348, 571	0
1	C	723/806 (89%)	0.01	7 (0%) 79 64	51, 266, 367, 616	0
All	All	2165/2418 (89%)	-0.02	27 (1%) 76 62	49, 266, 360, 616	0

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	736	PHE	5.2
1	C	206	ILE	3.9
1	B	736	PHE	3.8
1	C	672	LEU	3.4
1	B	206	ILE	3.3
1	A	234	GLY	2.9
1	C	396	LEU	2.9
1	A	206	ILE	2.8
1	B	94	VAL	2.8
1	A	84	MET	2.7
1	A	427	MET	2.5
1	A	134	TYR	2.4
1	C	657	LEU	2.4
1	A	139	PHE	2.4
1	B	324	ILE	2.3
1	A	413	ALA	2.3
1	B	429	LEU	2.3
1	A	135	LEU	2.3
1	A	204	ASP	2.2
1	C	731	ILE	2.2
1	B	134	TYR	2.2
1	A	437	ILE	2.1
1	B	633	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	100	ILE	2.1
1	B	618	PHE	2.0
1	A	429	LEU	2.0
1	C	153	LEU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

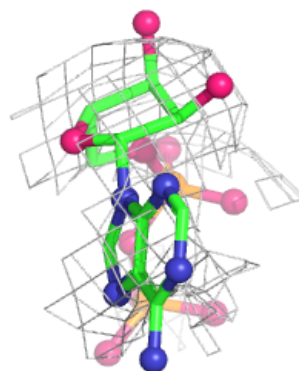
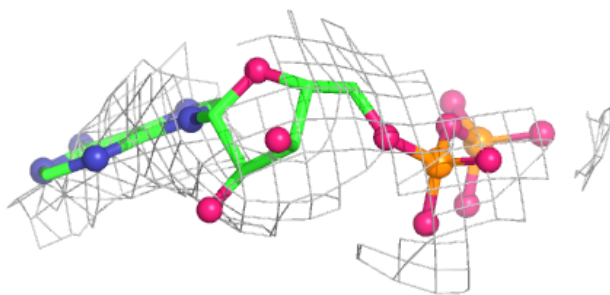
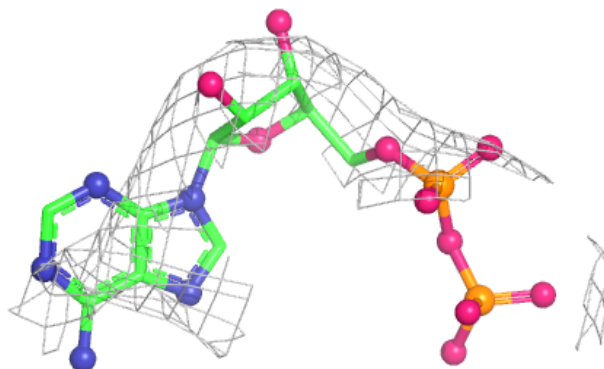
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	AF3	C	915	4/4	0.75	0.23	306,306,306,306	0
3	AF3	A	915	4/4	0.86	0.15	306,306,306,306	0
3	AF3	B	915	4/4	0.90	0.11	306,306,306,306	0
2	ADP	A	900	27/27	0.90	0.09	306,306,306,306	0
2	ADP	C	900	27/27	0.93	0.12	306,306,306,306	0
2	ADP	B	900	27/27	0.94	0.09	306,306,306,306	0
2	ADP	B	807	27/27	0.95	0.13	306,306,306,306	0
2	ADP	A	807	27/27	0.95	0.13	306,306,306,306	0
2	ADP	C	807	27/27	0.96	0.11	306,306,306,306	0

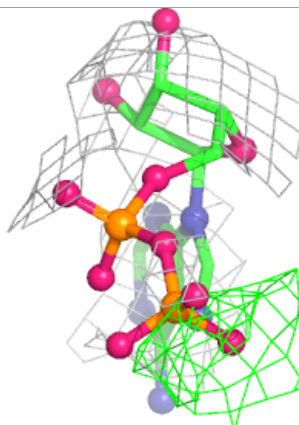
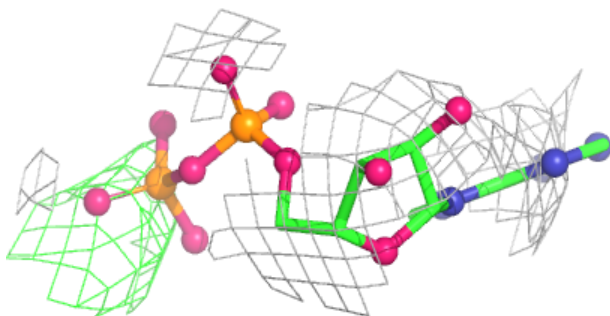
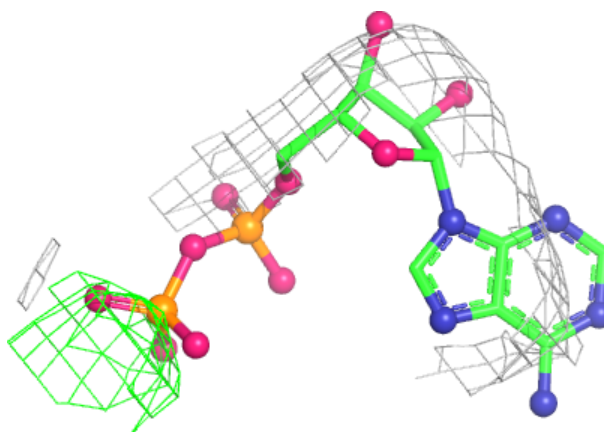
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around ADP A 900:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

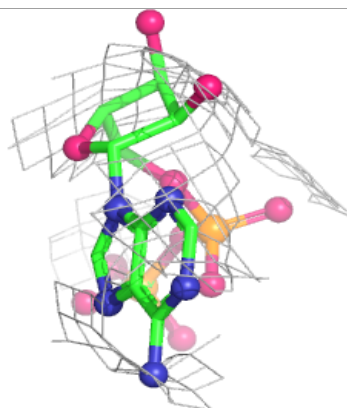
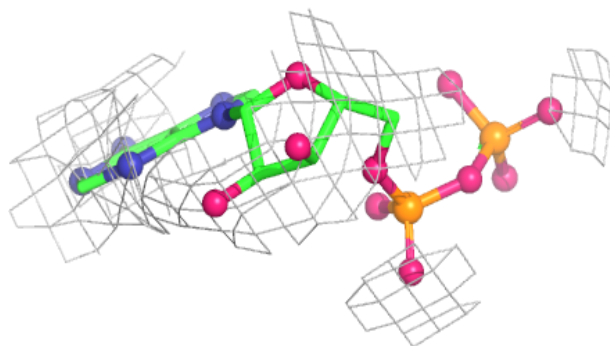
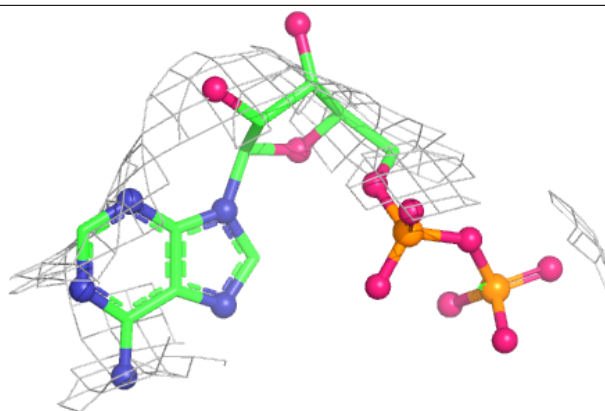
**Electron density around ADP C 900:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

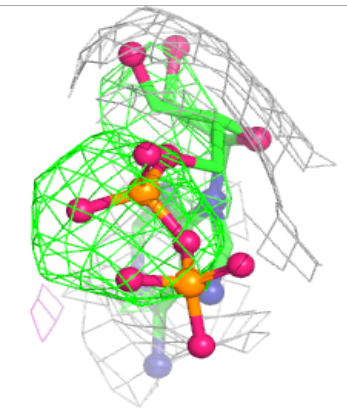
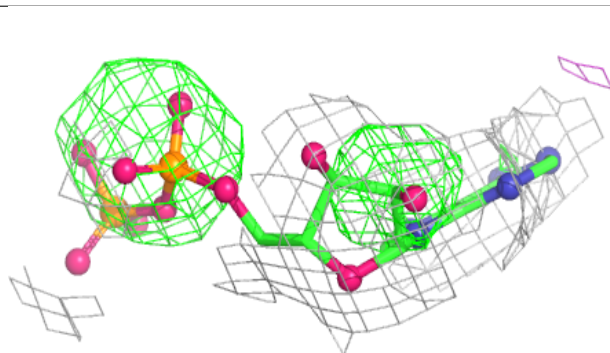
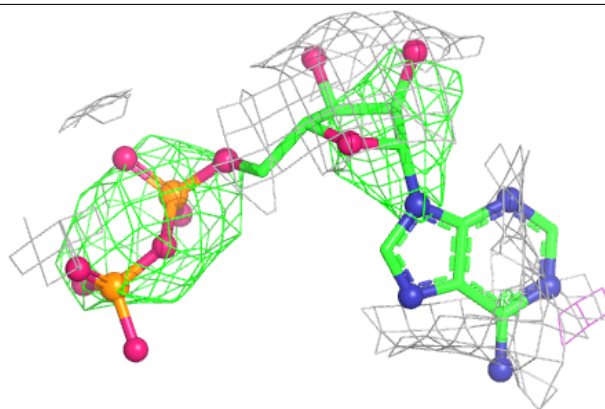


Electron density around ADP B 900:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

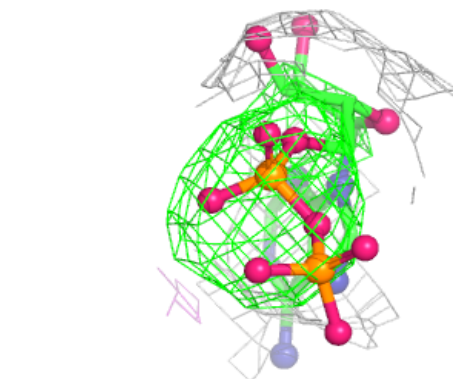
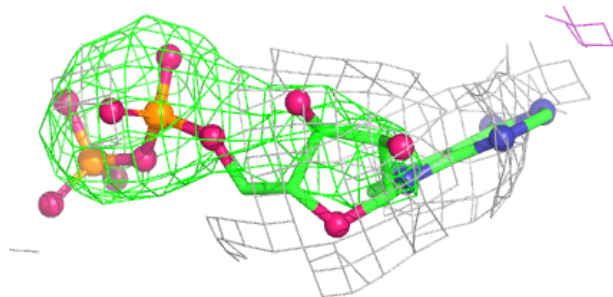
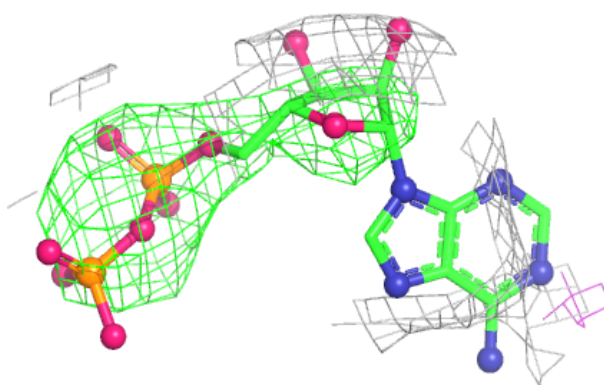
**Electron density around ADP B 807:**

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

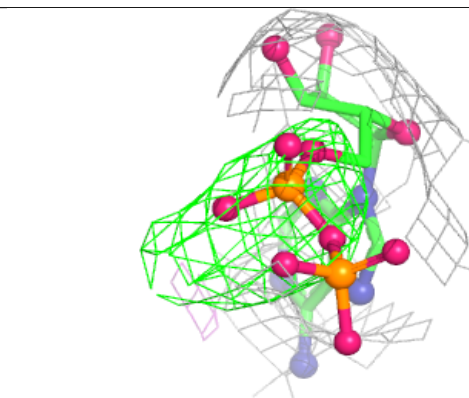
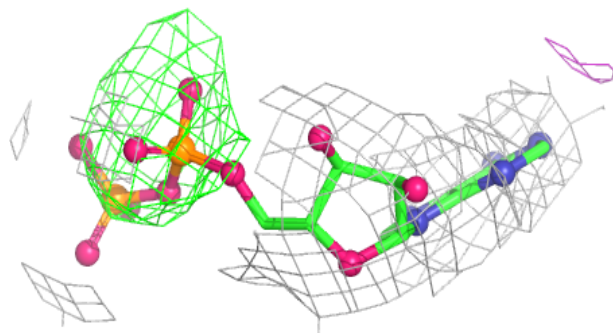
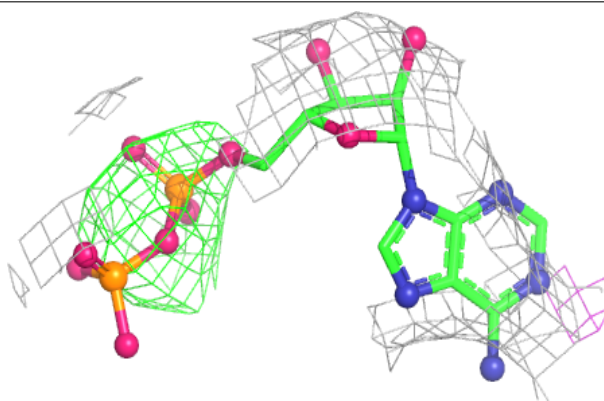


Electron density around ADP A 807:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around ADP C 807:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.