



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 4, 2026 – 08:40 PM UTC

PDB ID : 6QPG / pdb_00006qpg
Title : Influenza A virus Polymerase Heterotrimer A/nt/60/1968(H3N2) in complex with Nanobody NB8205
Authors : Fan, H.T.; Keown, J.R.; Fodor, E.; Grimes, J.M.
Deposited on : 2019-02-13
Resolution : 3.34 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
Xtriage (Phenix)	:	2.0
EDS	:	3.0
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

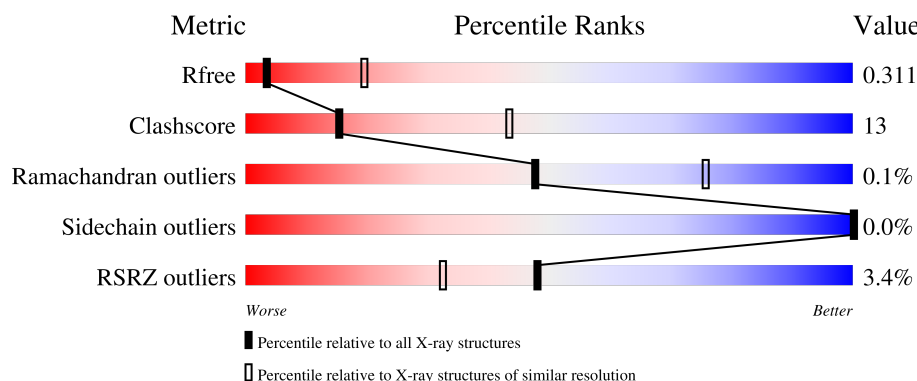
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.34 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	1434 (3.38-3.30)
Clashscore	190562	1479 (3.38-3.30)
Ramachandran outliers	187476	1456 (3.38-3.30)
Sidechain outliers	187428	1455 (3.38-3.30)
RSRZ outliers	180081	1434 (3.38-3.30)

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	716	2% 66% 30% .
1	D	716	3% 68% 29% .
1	G	716	2% 67% 29% .
1	J	716	3% 68% 28% .
2	B	757	2% 59% 27% 13%

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Mol	Chain	Length	Quality of chain
2	E	757	
2	H	757	
2	K	757	
3	C	765	
3	F	765	
3	I	765	
3	L	765	
4	M	134	
4	N	134	
4	O	134	
4	P	134	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 70549 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Polymerase acidic protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	691	Total	C	N	O	S	0	0	0
			5621	3570	952	1059	40			
1	D	695	Total	C	N	O	S	0	0	0
			5652	3586	957	1069	40			
1	G	694	Total	C	N	O	S	0	0	0
			5644	3582	955	1067	40			
1	J	692	Total	C	N	O	S	0	0	0
			5631	3572	953	1066	40			

- Molecule 2 is a protein called RNA-directed RNA polymerase catalytic subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	656	Total	C	N	O	S	0	0	0
			5239	3305	903	991	40			
2	E	666	Total	C	N	O	S	0	0	0
			5326	3357	919	1008	42			
2	H	667	Total	C	N	O	S	0	0	0
			5327	3361	916	1009	41			
2	K	664	Total	C	N	O	S	0	0	0
			5303	3342	916	1004	41			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	577	LYS	GLU	conflict	UNP P03432
E	577	LYS	GLU	conflict	UNP P03432
H	577	LYS	GLU	conflict	UNP P03432
K	577	LYS	GLU	conflict	UNP P03432

- Molecule 3 is a protein called Polymerase basic protein 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	717	Total	C	N	O	S	0	0	0
			5720	3596	1037	1047	40			
3	F	726	Total	C	N	O	S	0	0	0
			5786	3637	1045	1063	41			
3	I	728	Total	C	N	O	S	0	0	0
			5804	3648	1049	1066	41			
3	L	723	Total	C	N	O	S	0	0	0
			5764	3623	1043	1057	41			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	760	GLU	-	expression tag	UNP P03429
C	761	ASN	-	expression tag	UNP P03429
C	762	LEU	-	expression tag	UNP P03429
C	763	TYR	-	expression tag	UNP P03429
C	764	PHE	-	expression tag	UNP P03429
C	765	GLN	-	expression tag	UNP P03429
F	760	GLU	-	expression tag	UNP P03429
F	761	ASN	-	expression tag	UNP P03429
F	762	LEU	-	expression tag	UNP P03429
F	763	TYR	-	expression tag	UNP P03429
F	764	PHE	-	expression tag	UNP P03429
F	765	GLN	-	expression tag	UNP P03429
I	760	GLU	-	expression tag	UNP P03429
I	761	ASN	-	expression tag	UNP P03429
I	762	LEU	-	expression tag	UNP P03429
I	763	TYR	-	expression tag	UNP P03429
I	764	PHE	-	expression tag	UNP P03429
I	765	GLN	-	expression tag	UNP P03429
L	760	GLU	-	expression tag	UNP P03429
L	761	ASN	-	expression tag	UNP P03429
L	762	LEU	-	expression tag	UNP P03429
L	763	TYR	-	expression tag	UNP P03429
L	764	PHE	-	expression tag	UNP P03429
L	765	GLN	-	expression tag	UNP P03429

- Molecule 4 is a protein called Nanobody NB8205.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	M	121	Total	C	N	O	S	0	0	0
			933	581	164	182	6			

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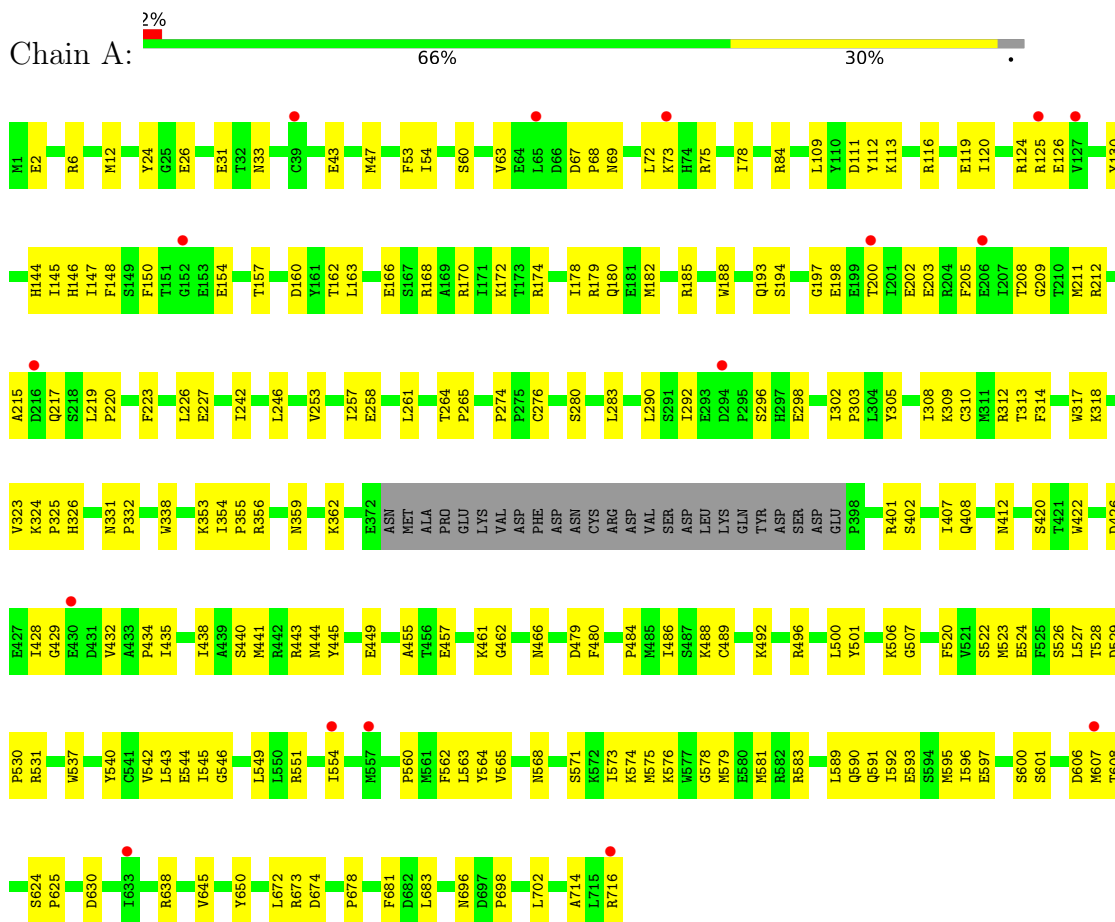
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	N	121	Total 933	C 581	N 164	O 182	S 6	0	0	0
4	O	121	Total 933	C 581	N 164	O 182	S 6	0	0	0
4	P	121	Total 933	C 581	N 164	O 182	S 6	0	0	0

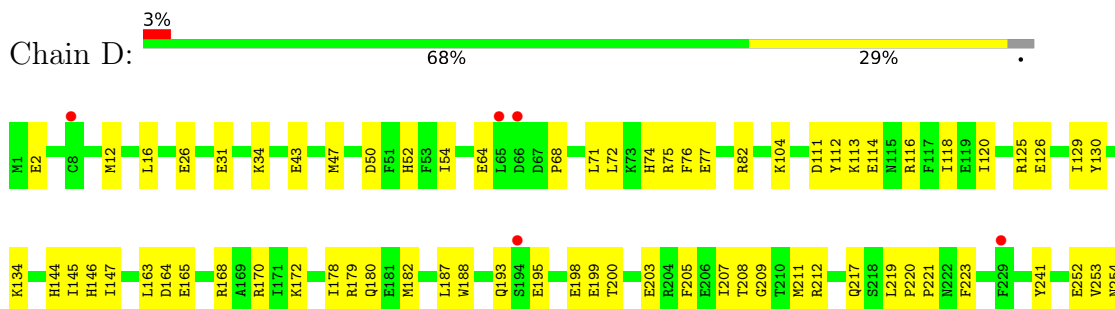
3 Residue-property plots

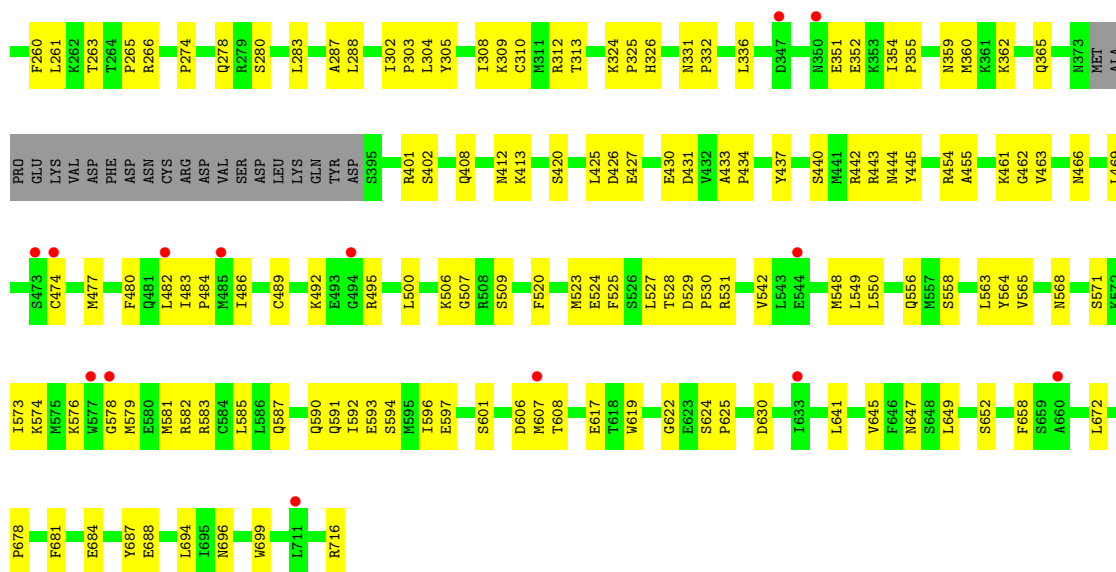
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: Polymerase acidic protein

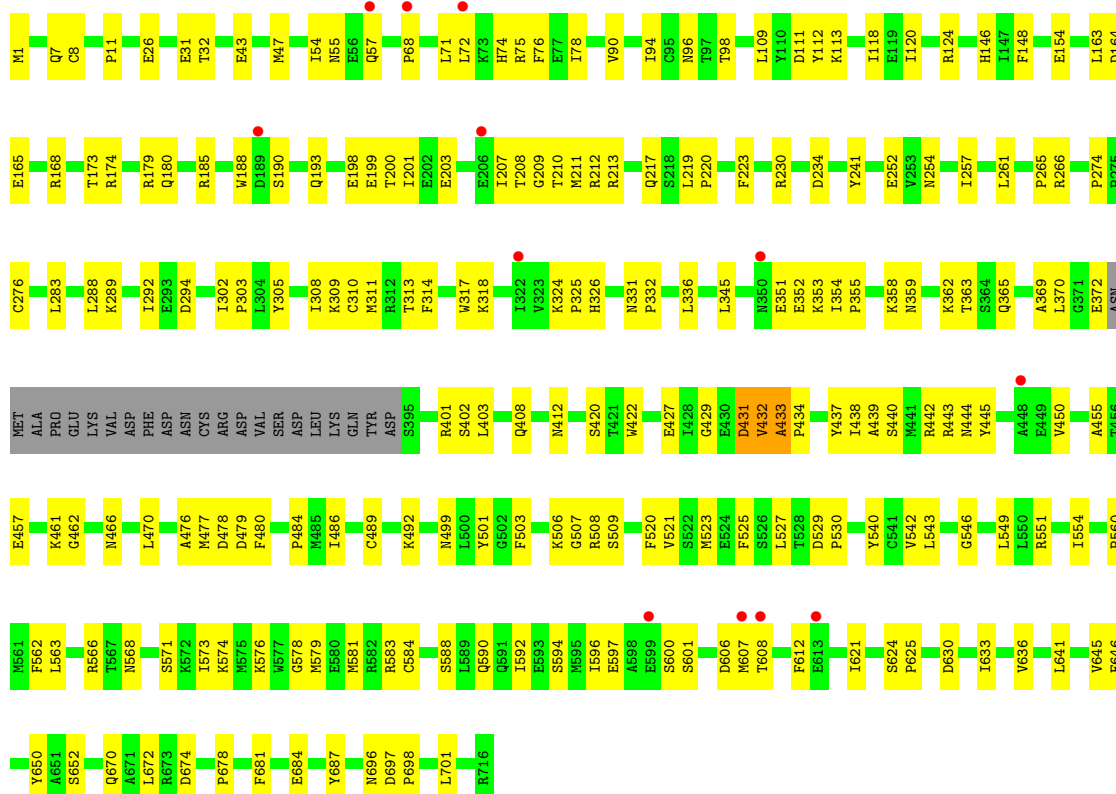


• Molecule 1: Polymerase acidic protein





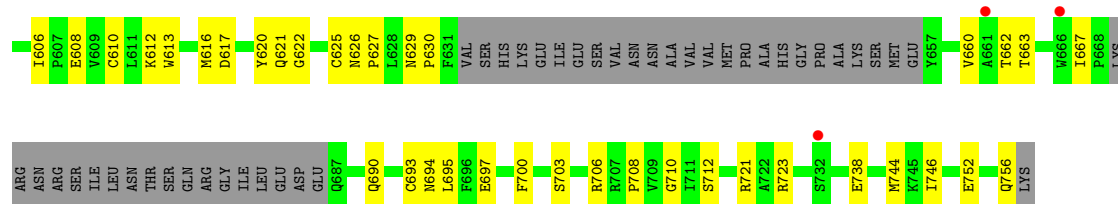
• Molecule 1: Polymerase acidic protein



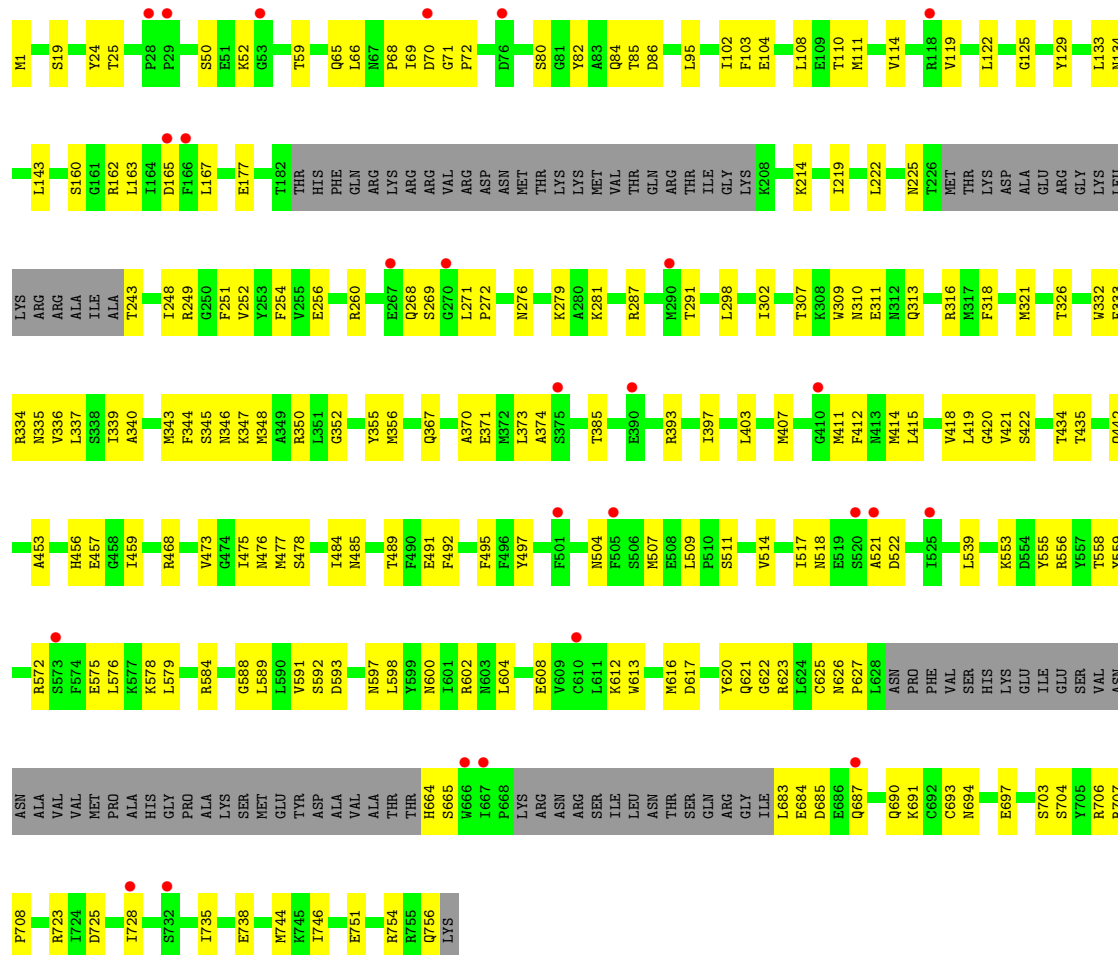
• Molecule 1: Polymerase acidic protein



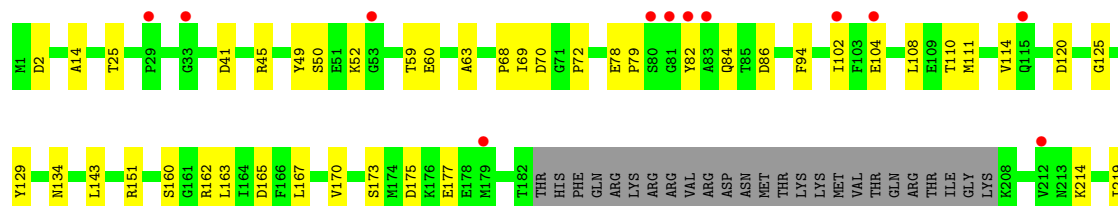


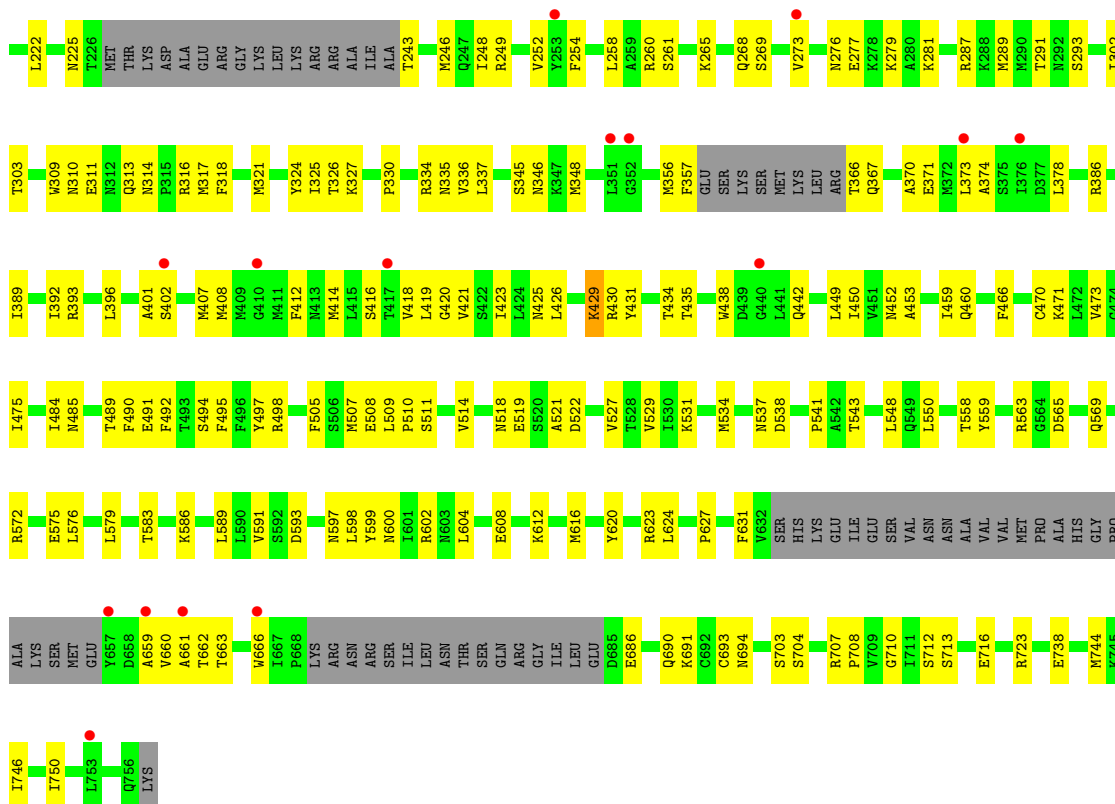


• Molecule 2: RNA-directed RNA polymerase catalytic subunit

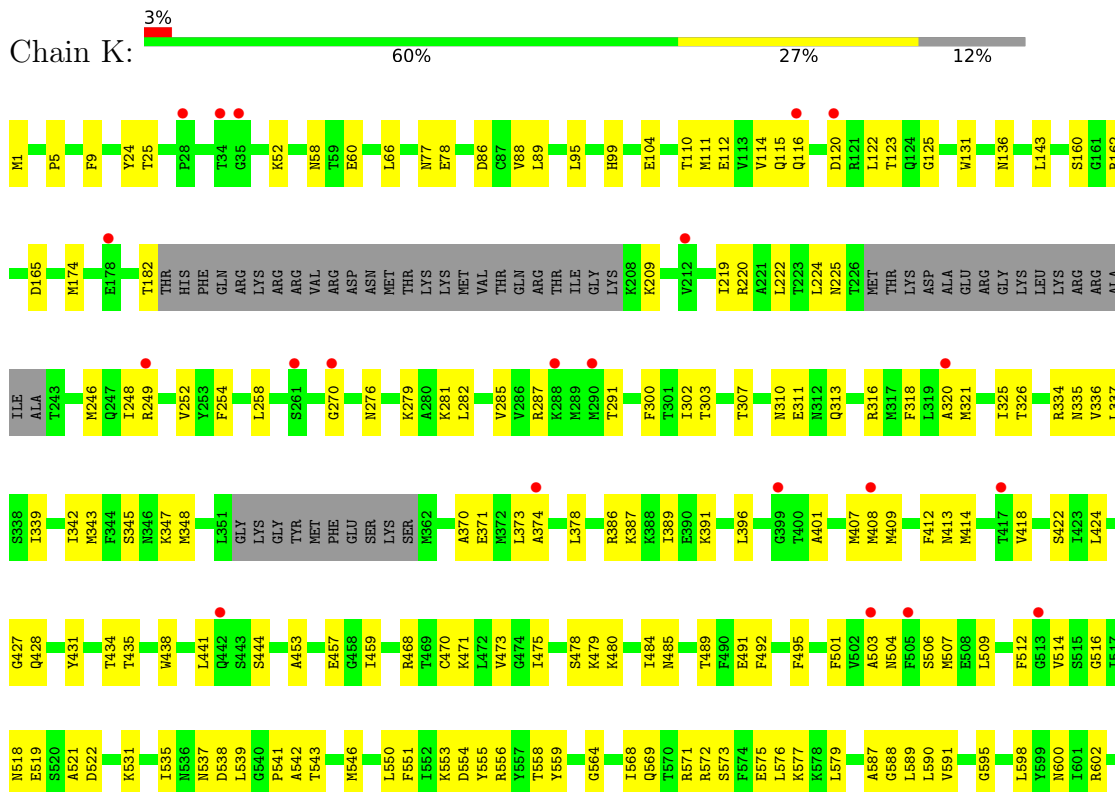


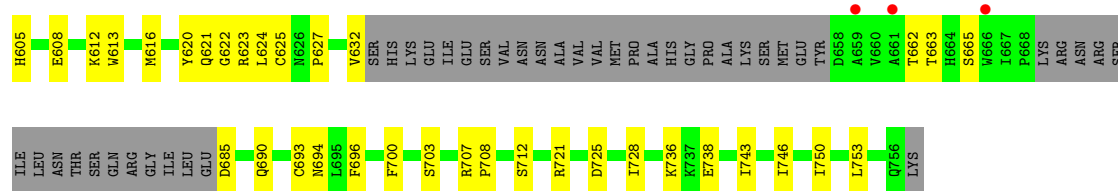
• Molecule 2: RNA-directed RNA polymerase catalytic subunit



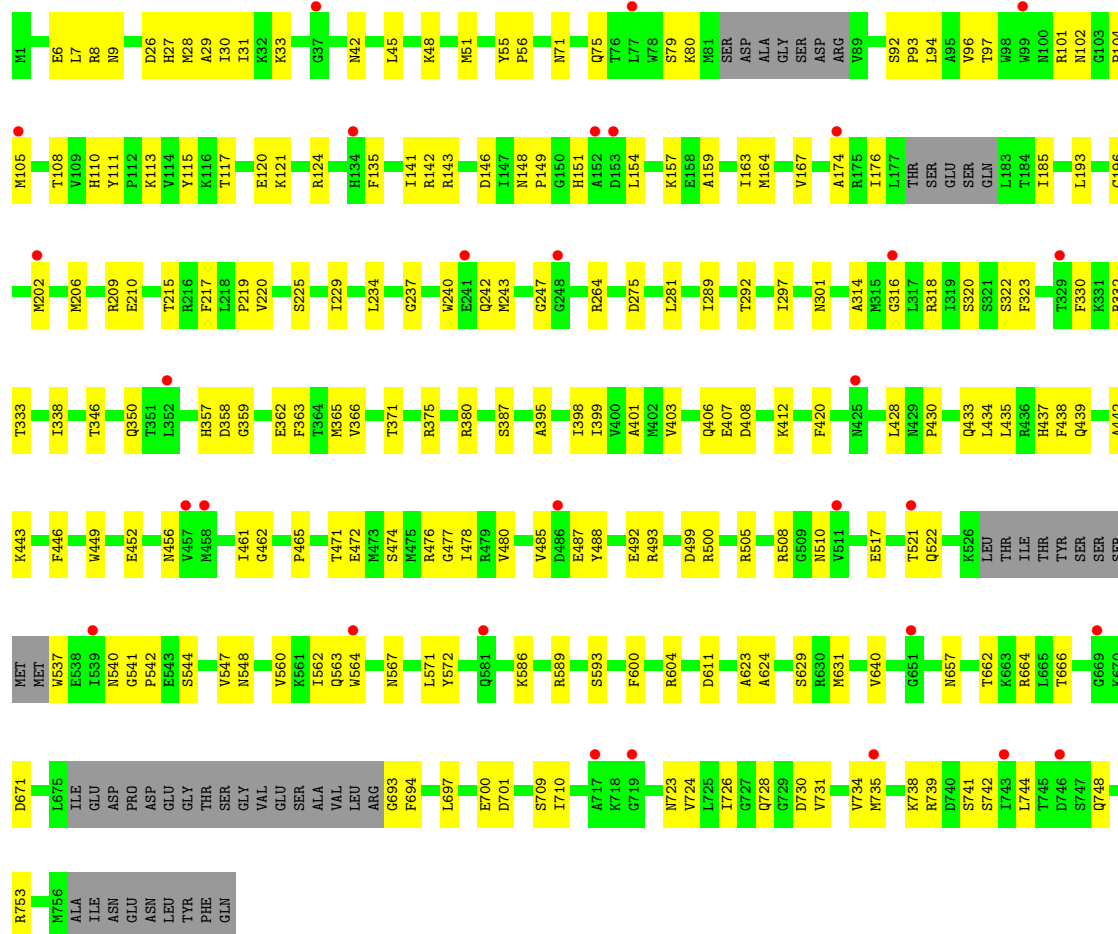


- Molecule 2: RNA-directed RNA polymerase catalytic subunit

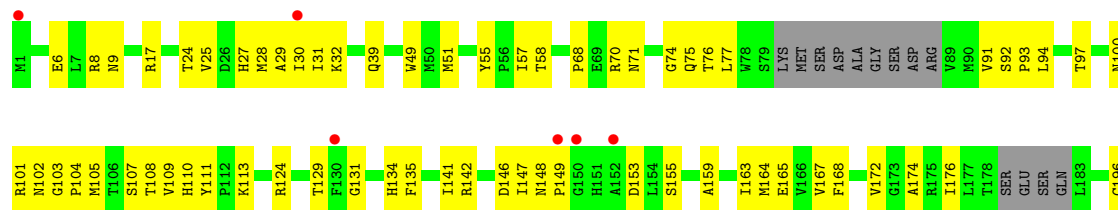


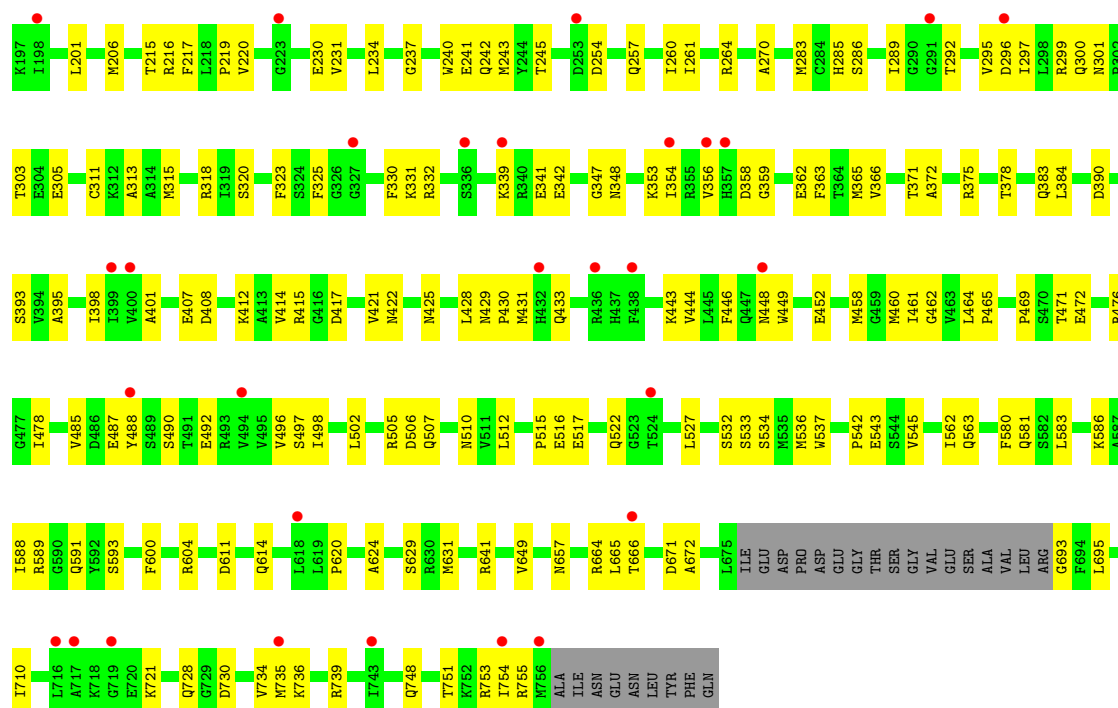


- Molecule 3: Polymerase basic protein 2

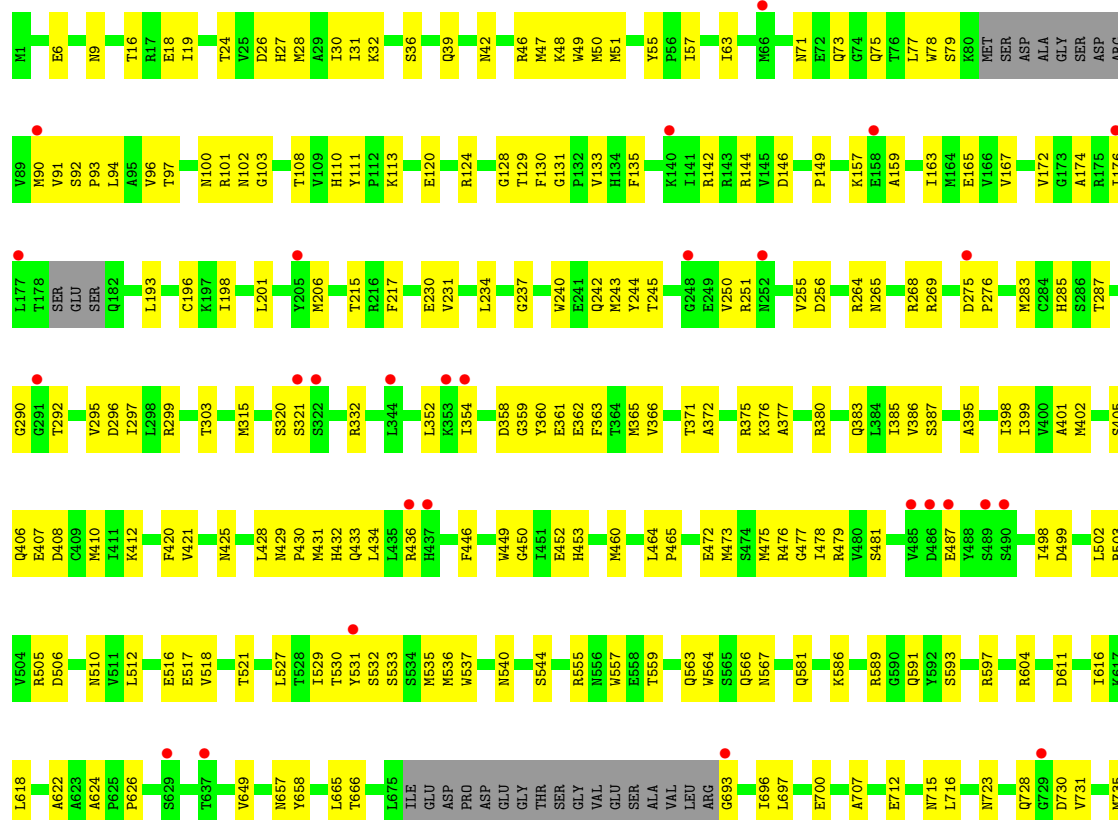


- Molecule 3: Polymerase basic protein 2



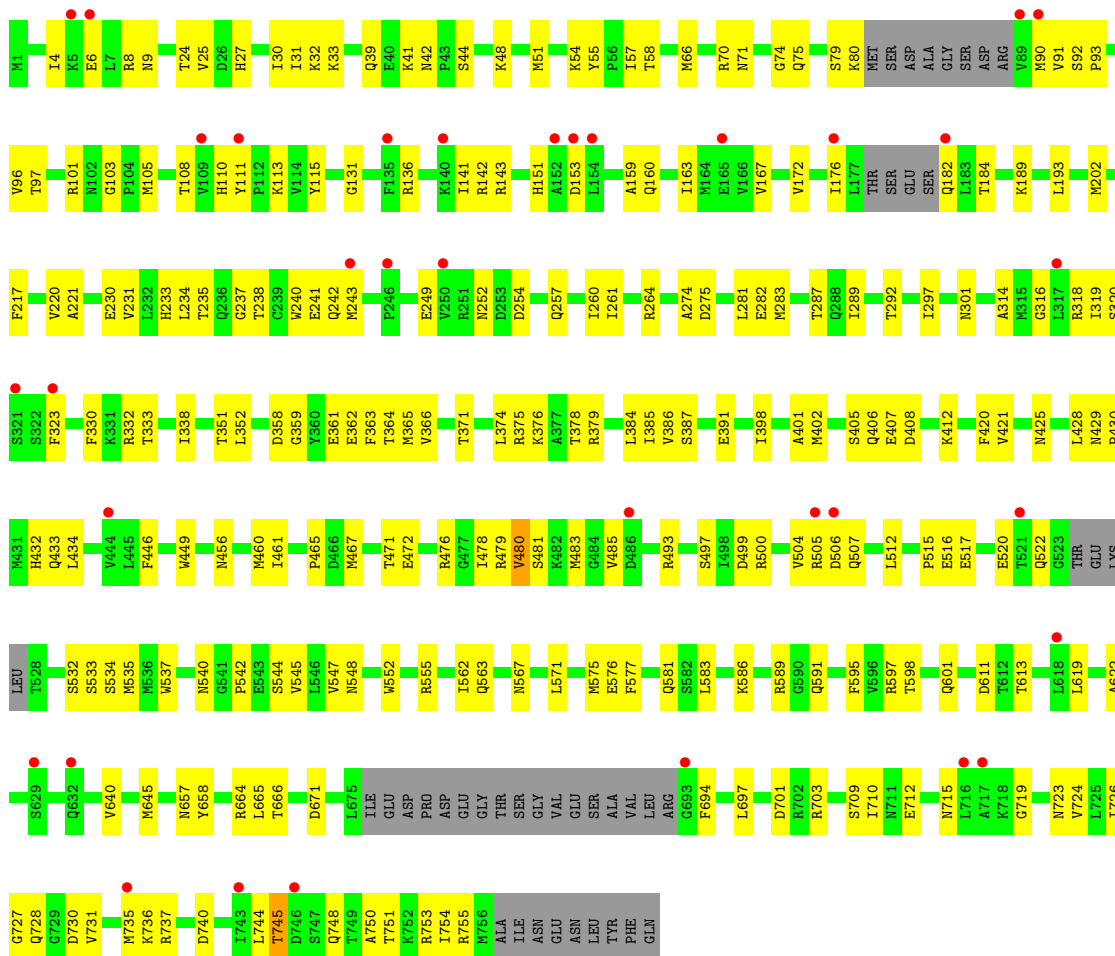


● Molecule 3: Polymerase basic protein 2

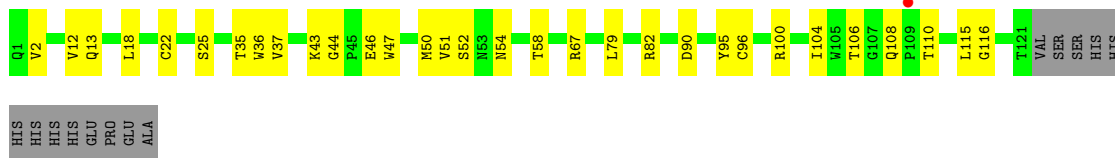




• Molecule 3: Polymerase basic protein 2

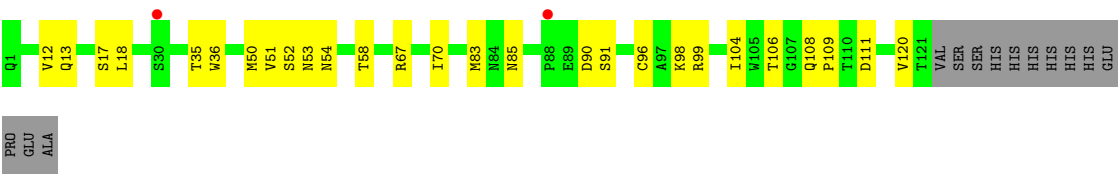


• Molecule 4: Nanobody NB8205

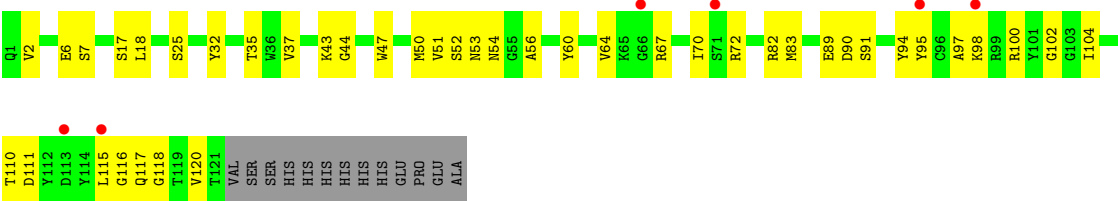


• Molecule 4: Nanobody NB8205

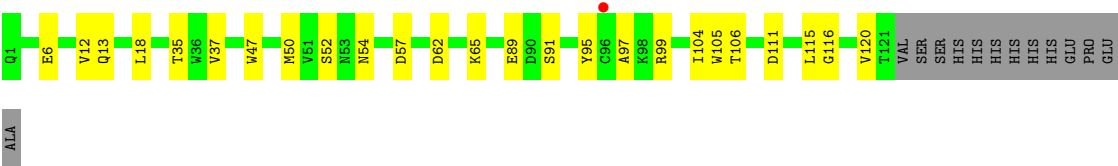




● Molecule 4: Nanobody NB8205



● Molecule 4: Nanobody NB8205



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	335.18Å 192.90Å 235.10Å 90.00° 91.78° 90.00°	Depositor
Resolution (Å)	234.98 – 3.34 234.98 – 3.34	Depositor EDS
% Data completeness (in resolution range)	41.5 (234.98-3.34) 37.7 (234.98-3.34)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.41 (at 3.33Å)	Xtriage
Refinement program	PHENIX 1.13_2998	Depositor
R, R_{free}	0.251 , 0.305 0.257 , 0.311	Depositor DCC
R_{free} test set	4533 reflections (2.10%)	wwPDB-VP
Wilson B-factor (Å ²)	69.1	Xtriage
Anisotropy	0.429	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 86.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.015 for -1/2*h-3/2*k,-1/2*h+1/2*k,-l 0.016 for -1/2*h+3/2*k,1/2*h+1/2*k,-l 0.017 for 1/2*h-3/2*k,-1/2*h-1/2*k,-l 0.016 for 1/2*h+3/2*k,1/2*h-1/2*k,-l 0.017 for -h,-k,l	Xtriage
F_o, F_c correlation	0.84	EDS
Total number of atoms	70549	wwPDB-VP
Average B, all atoms (Å ²)	78.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.48% 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 [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.14	0/5742	0.39	0/7740
1	D	0.13	0/5773	0.38	0/7783
1	G	0.13	0/5765	0.39	0/7772
1	J	0.13	0/5751	0.38	0/7753
2	B	0.14	0/5343	0.40	1/7214 (0.0%)
2	E	0.14	0/5430	0.39	0/7323
2	H	0.14	0/5433	0.39	0/7334
2	K	0.13	0/5406	0.40	0/7297
3	C	0.14	0/5812	0.41	0/7825
3	F	0.14	0/5880	0.41	0/7921
3	I	0.14	0/5898	0.41	0/7944
3	L	0.14	0/5857	0.43	0/7887
4	M	0.15	0/954	0.42	0/1293
4	N	0.11	0/954	0.37	0/1293
4	O	0.13	0/954	0.41	0/1293
4	P	0.12	0/954	0.42	0/1293
All	All	0.14	0/71906	0.40	1/96965 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	211	ARG	N-CA-C	6.08	116.30	108.34

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5621	0	5563	165	0
1	D	5652	0	5583	155	0
1	G	5644	0	5577	161	0
1	J	5631	0	5555	157	0
2	B	5239	0	5190	165	0
2	E	5326	0	5286	179	0
2	H	5327	0	5270	186	0
2	K	5303	0	5261	174	0
3	C	5720	0	5867	154	0
3	F	5786	0	5931	202	0
3	I	5804	0	5952	188	0
3	L	5764	0	5907	189	0
4	M	933	0	893	22	0
4	N	933	0	893	20	0
4	O	933	0	893	34	0
4	P	933	0	893	17	0
All	All	70549	0	70514	1897	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 13.

All (1897) 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)
2:E:260:ARG:HG3	2:E:414:MET:HE1	1.49	0.95
3:I:290:GLY:H	3:I:529:ILE:HG12	1.32	0.95
3:F:134:HIS:HE1	3:F:241:GLU:HG2	1.35	0.91
2:B:667:ILE:HG13	3:C:56:PRO:O	1.71	0.90
1:A:714:ALA:O	1:A:716:ARG:NH1	2.07	0.88
1:A:353:LYS:HB3	1:G:353:LYS:HB3	1.57	0.87
3:L:264:ARG:HH12	3:L:520:GLU:HG2	1.44	0.83
2:E:177:GLU:HA	2:E:214:LYS:HB2	1.62	0.82
3:F:134:HIS:HE1	3:F:241:GLU:CG	1.92	0.81
1:J:432:VAL:HG21	2:K:602:ARG:HD3	1.62	0.81
3:F:134:HIS:CE1	3:F:241:GLU:HG2	2.16	0.81
3:F:283:MET:HG2	3:F:533:SER:HB2	1.63	0.80
2:H:623:ARG:HD3	3:I:103:GLY:H	1.45	0.80
3:C:275:ASP:HA	3:C:500:ARG:HH11	1.45	0.80
1:A:26:GLU:HG3	1:A:31:GLU:HG3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:542:PRO:HB3	3:F:583:LEU:HD21	1.65	0.79
1:G:96:ASN:HD21	3:L:275:ASP:HB3	1.45	0.79
3:L:534:SER:HB3	3:L:576:GLU:HA	1.65	0.78
1:A:219:LEU:HD22	1:A:223:PHE:HB2	1.65	0.78
3:I:275:ASP:H	1:J:96:ASN:HD21	1.29	0.78
2:E:453:ALA:HB3	2:E:459:ILE:HG12	1.64	0.77
3:F:286:SER:HB2	3:F:532:SER:HB2	1.63	0.77
3:C:176:ILE:HG13	3:C:693:GLY:HA3	1.65	0.77
2:B:302:ILE:HG22	2:B:484:ILE:HG23	1.67	0.76
1:A:356:ARG:NH2	1:G:351:GLU:O	2.19	0.76
1:G:266:ARG:NH1	1:G:684:GLU:OE2	2.18	0.76
2:E:309:TRP:CZ3	2:E:475:ILE:HG12	2.20	0.76
1:A:560:PRO:HB2	1:A:562:PHE:HE1	1.51	0.75
3:L:701:ASP:O	3:L:723:ASN:ND2	2.19	0.75
3:C:701:ASP:O	3:C:723:ASN:ND2	2.19	0.75
3:F:323:PHE:HB3	3:F:330:PHE:HB2	1.69	0.75
1:D:408:GLN:HE21	1:D:412:ASN:HD21	1.34	0.75
1:G:560:PRO:HB2	1:G:562:PHE:HE1	1.52	0.75
4:M:37:VAL:O	4:M:95:TYR:HB2	1.86	0.75
2:B:269:SER:HB2	2:B:421:VAL:HG21	1.68	0.74
4:P:37:VAL:O	4:P:95:TYR:HB2	1.87	0.74
2:B:453:ALA:HB3	2:B:459:ILE:HG12	1.68	0.74
2:B:708:PRO:HB3	3:C:728:GLN:HG3	1.69	0.74
1:G:219:LEU:HD22	1:G:223:PHE:HB2	1.70	0.73
2:K:302:ILE:HG22	2:K:484:ILE:HG23	1.71	0.73
2:E:302:ILE:HG22	2:E:484:ILE:HG23	1.70	0.73
1:G:408:GLN:HE21	1:G:412:ASN:HD21	1.36	0.73
1:D:219:LEU:HD22	1:D:223:PHE:HB2	1.68	0.73
1:G:266:ARG:O	1:G:687:TYR:OH	2.06	0.73
2:K:120:ASP:HB3	3:L:33:LYS:HD2	1.70	0.73
2:B:485:ASN:ND2	2:B:489:THR:O	2.21	0.73
3:F:147:ILE:HD11	3:F:216:ARG:HE	1.53	0.73
3:F:176:ILE:HG13	3:F:693:GLY:HA3	1.69	0.73
1:G:583:ARG:HH22	2:H:511:SER:HA	1.53	0.73
2:H:518:ASN:HA	2:H:666:TRP:CH2	2.24	0.72
1:J:2:GLU:OE1	3:L:318:ARG:NH2	2.22	0.72
3:F:581:GLN:HG2	3:F:589:ARG:HD3	1.69	0.72
2:K:316:ARG:NH2	2:K:345:SER:OG	2.23	0.72
2:B:397:ILE:O	2:B:397:ILE:HD12	1.88	0.72
2:H:356:MET:HA	2:H:367:GLN:HA	1.71	0.72
1:G:302:ILE:HD12	1:G:303:PRO:HD2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:86:MET:SD	3:L:755:ARG:NH1	2.62	0.72
2:E:626:ASN:ND2	3:F:104:PRO:O	2.22	0.72
3:C:323:PHE:HB3	3:C:330:PHE:HB2	1.72	0.71
2:B:99:HIS:NE2	3:C:333:THR:O	2.23	0.71
3:F:422:ASN:ND2	3:F:516:GLU:OE2	2.23	0.71
1:G:578:GLY:HA2	1:G:581:MET:HG3	1.72	0.71
1:D:221:PRO:HD3	2:E:69:ILE:HG23	1.71	0.71
2:E:397:ILE:O	2:E:397:ILE:HD12	1.89	0.71
1:G:408:GLN:O	1:G:412:ASN:ND2	2.21	0.71
1:G:420:SER:HB3	1:G:489:CYS:HB2	1.71	0.71
3:I:420:PHE:O	3:I:433:GLN:NE2	2.23	0.71
4:O:115:LEU:HD22	4:O:116:GLY:H	1.54	0.71
1:G:370:LEU:HD13	1:G:507:GLY:HA2	1.72	0.71
3:I:697:LEU:HD11	3:I:735:MET:HB2	1.71	0.71
1:G:672:LEU:HD23	1:G:678:PRO:HD2	1.72	0.71
2:B:489:THR:HA	2:B:497:TYR:O	1.91	0.71
3:I:165:GLU:HG2	3:I:172:VAL:HG21	1.73	0.71
1:J:576:LYS:NZ	3:L:42:ASN:OD1	2.22	0.70
2:E:281:LYS:HE3	3:F:142:ARG:HH12	1.57	0.70
1:A:359:ASN:ND2	1:A:479:ASP:OD2	2.24	0.70
3:L:136:ARG:HH21	3:L:483:MET:HE1	1.56	0.70
1:D:302:ILE:HD12	1:D:303:PRO:HD2	1.72	0.70
2:E:473:VAL:HG23	2:E:475:ILE:HG13	1.72	0.70
3:C:55:TYR:HD1	3:C:92:SER:HB2	1.55	0.70
2:E:492:PHE:O	2:E:495:PHE:HB2	1.92	0.69
2:E:370:ALA:HA	2:E:373:LEU:HD13	1.74	0.69
3:C:366:VAL:HA	3:C:371:THR:HG22	1.74	0.69
2:H:219:ILE:HG23	2:H:348:MET:HG3	1.75	0.69
3:F:147:ILE:O	3:F:148:ASN:ND2	2.25	0.69
2:H:291:THR:OG1	3:I:383:GLN:OE1	2.08	0.69
1:D:278:GLN:OE1	1:D:280:SER:OG	2.11	0.69
2:K:485:ASN:ND2	2:K:489:THR:O	2.24	0.69
1:A:606:ASP:HB2	3:C:135:PHE:CG	2.28	0.69
1:D:573:ILE:HA	1:D:576:LYS:HG2	1.75	0.69
2:H:302:ILE:HG22	2:H:484:ILE:HG23	1.73	0.69
2:K:88:VAL:HG22	2:K:473:VAL:HG12	1.75	0.69
3:F:55:TYR:HD1	3:F:92:SER:HB2	1.58	0.69
2:H:378:LEU:HD23	2:H:386:ARG:HG3	1.74	0.69
1:G:26:GLU:HG3	1:G:31:GLU:HG3	1.75	0.68
3:L:420:PHE:O	3:L:433:GLN:NE2	2.26	0.68
1:A:578:GLY:HA2	1:A:581:MET:HG3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:283:LEU:O	1:A:461:LYS:NZ	2.25	0.68
2:E:316:ARG:NH2	2:E:345:SER:OG	2.26	0.68
1:G:193:GLN:HE21	1:G:203:GLU:HG3	1.59	0.68
2:H:426:LEU:HA	2:H:431:TYR:HD2	1.58	0.68
3:I:398:ILE:HD11	3:I:478:ILE:HD11	1.74	0.68
3:I:593:SER:HB2	3:I:624:ALA:HB3	1.74	0.68
1:J:8:CYS:O	1:J:174:ARG:NH2	2.25	0.68
2:E:309:TRP:HZ3	2:E:475:ILE:HG12	1.59	0.68
1:A:408:GLN:HE21	1:A:412:ASN:HD21	1.39	0.68
2:B:519:GLU:HG2	2:B:662:THR:HG22	1.76	0.67
2:E:572:ARG:HA	3:F:94:LEU:HD12	1.75	0.67
2:K:620:TYR:O	2:K:624:LEU:HB2	1.93	0.67
3:L:398:ILE:HD11	3:L:478:ILE:HD11	1.76	0.67
2:E:225:ASN:O	2:E:243:THR:N	2.27	0.67
3:F:614:GLN:NE2	3:F:649:VAL:O	2.28	0.67
3:C:117:THR:OG1	3:C:209:ARG:NH1	2.28	0.67
1:J:523:MET:HB3	1:J:563:LEU:HD11	1.77	0.67
1:A:523:MET:HB3	1:A:563:LEU:HD11	1.76	0.67
1:G:365:GLN:CD	1:G:365:GLN:H	2.02	0.67
2:H:453:ALA:HB3	2:H:459:ILE:HG12	1.75	0.67
1:G:324:LYS:NZ	1:G:325:PRO:O	2.28	0.67
2:K:623:ARG:HD3	3:L:103:GLY:H	1.58	0.67
1:D:506:LYS:NZ	1:D:507:GLY:O	2.28	0.67
2:K:509:LEU:HD23	2:K:509:LEU:H	1.60	0.67
2:H:593:ASP:OD2	3:I:100:ASN:ND2	2.28	0.67
1:A:573:ILE:HA	1:A:576:LYS:HG2	1.77	0.66
2:E:313:GLN:HB3	2:E:318:PHE:HE2	1.60	0.66
3:F:588:ILE:HD12	3:F:588:ILE:N	2.09	0.66
1:J:408:GLN:O	1:J:412:ASN:ND2	2.26	0.66
2:H:374:ALA:O	2:H:393:ARG:NH2	2.28	0.66
1:J:292:ILE:HD11	1:J:310:CYS:SG	2.35	0.66
2:K:326:THR:HB	2:K:334:ARG:HG2	1.74	0.66
2:E:613:TRP:O	2:E:621:GLN:NE2	2.28	0.66
2:B:287:ARG:O	2:B:291:THR:OG1	2.14	0.66
1:D:266:ARG:NH1	1:D:684:GLU:OE2	2.28	0.66
3:L:141:ILE:HB	3:L:220:VAL:O	1.94	0.66
1:A:408:GLN:O	1:A:412:ASN:ND2	2.24	0.66
2:B:309:TRP:HZ2	2:B:416:SER:HB3	1.59	0.66
2:E:608:GLU:OE2	2:E:612:LYS:NZ	2.29	0.66
2:H:279:LYS:NZ	2:H:538:ASP:OD2	2.24	0.66
1:A:302:ILE:HD12	1:A:303:PRO:HD2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:326:THR:HB	2:E:334:ARG:HG2	1.77	0.66
2:E:489:THR:HA	2:E:497:TYR:O	1.94	0.66
1:A:551:ARG:NE	4:O:89:GLU:OE1	2.28	0.66
2:E:703:SER:HB2	3:F:28:MET:HE3	1.78	0.66
1:G:198:GLU:HG2	1:G:200:THR:HG22	1.77	0.66
3:L:563:GLN:HG2	3:L:571:LEU:HB2	1.78	0.66
3:L:712:GLU:HB2	3:L:715:ASN:HB2	1.76	0.66
1:A:60:SER:HB3	1:A:75:ARG:HE	1.61	0.66
3:F:242:GLN:NE2	3:F:243:MET:O	2.29	0.66
2:H:310:ASN:ND2	2:H:407:MET:O	2.29	0.65
3:I:657:ASN:HB3	3:I:666:THR:HB	1.78	0.65
2:B:599:TYR:OH	2:B:606:ILE:O	2.12	0.65
3:C:71:ASN:ND2	3:C:75:GLN:OE1	2.29	0.65
3:F:71:ASN:ND2	3:F:75:GLN:OE1	2.30	0.65
2:K:613:TRP:O	2:K:621:GLN:NE2	2.29	0.65
3:L:51:MET:HE1	3:L:93:PRO:HG3	1.78	0.65
1:A:67:ASP:OD2	1:A:69:ASN:ND2	2.29	0.65
2:E:420:GLY:HA3	2:E:442:GLN:HG2	1.77	0.65
3:L:697:LEU:HD11	3:L:735:MET:HB2	1.79	0.65
1:D:408:GLN:O	1:D:412:ASN:ND2	2.25	0.65
1:G:75:ARG:NH1	1:G:111:ASP:OD2	2.30	0.65
2:H:608:GLU:OE2	2:H:612:LYS:NZ	2.25	0.65
1:J:523:MET:HG2	1:J:565:VAL:HG22	1.78	0.65
2:K:99:HIS:NE2	3:L:333:THR:O	2.30	0.65
3:C:593:SER:HB2	3:C:624:ALA:HB3	1.79	0.65
2:K:690:GLN:O	2:K:694:ASN:ND2	2.26	0.65
2:K:712:SER:OG	3:L:730:ASP:HB3	1.97	0.65
3:L:71:ASN:ND2	3:L:75:GLN:OE1	2.29	0.65
2:E:593:ASP:OD2	3:F:100:ASN:ND2	2.30	0.65
3:F:142:ARG:HB3	3:F:217:PHE:HE1	1.62	0.65
1:J:573:ILE:HA	1:J:576:LYS:HG2	1.78	0.65
2:B:95:LEU:HD12	2:B:422:SER:HB3	1.77	0.64
1:J:435:ILE:HD11	3:L:234:LEU:HD23	1.78	0.64
2:K:122:LEU:HD11	2:K:249:ARG:HB3	1.79	0.64
2:K:564:GLY:HA2	2:K:577:LYS:HG2	1.79	0.64
3:C:387:SER:HB3	3:C:485:VAL:HG23	1.78	0.64
3:I:429:ASN:OD1	3:I:432:HIS:ND1	2.30	0.64
2:K:282:LEU:HB2	2:K:501:PHE:HZ	1.63	0.64
4:O:52:SER:O	4:O:72:ARG:NH1	2.29	0.64
3:I:366:VAL:HA	3:I:371:THR:HG22	1.80	0.64
3:F:593:SER:HB2	3:F:624:ALA:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:363:THR:HB	1:G:365:GLN:OE1	1.97	0.64
4:M:115:LEU:HD22	4:M:116:GLY:H	1.62	0.64
3:F:545:VAL:HG11	3:F:583:LEU:HD22	1.80	0.64
3:C:700:GLU:HB2	3:C:731:VAL:HB	1.78	0.64
1:J:326:HIS:O	1:J:326:HIS:ND1	2.29	0.64
2:K:78:GLU:O	2:K:471:LYS:NZ	2.31	0.64
3:L:535:MET:N	3:L:535:MET:SD	2.71	0.64
3:C:697:LEU:HD11	3:C:735:MET:HB2	1.80	0.64
3:F:588:ILE:HD12	3:F:588:ILE:H	1.62	0.64
3:F:296:ASP:OD1	3:F:299:ARG:NH1	2.31	0.64
3:I:700:GLU:HB2	3:I:731:VAL:HB	1.79	0.64
1:J:283:LEU:O	1:J:461:LYS:NZ	2.31	0.64
1:A:2:GLU:OE1	3:C:318:ARG:NH2	2.23	0.63
2:B:690:GLN:O	2:B:694:ASN:ND2	2.26	0.63
1:J:450:VAL:HG13	1:J:641:LEU:HD22	1.79	0.63
2:K:576:LEU:HD12	3:L:97:THR:HG21	1.80	0.63
3:L:429:ASN:OD1	3:L:432:HIS:ND1	2.31	0.63
3:L:581:GLN:HG2	3:L:589:ARG:HD3	1.80	0.63
1:A:193:GLN:NE2	1:A:203:GLU:OE2	2.32	0.63
1:A:455:ALA:HB1	1:A:645:VAL:HG21	1.79	0.63
3:I:506:ASP:OD1	3:I:510:ASN:N	2.27	0.63
3:C:572:TYR:HB3	3:C:623:ALA:HA	1.79	0.63
1:J:203:GLU:OE2	2:K:162:ARG:NH2	2.30	0.63
2:B:752:GLU:O	2:B:756:GLN:NE2	2.32	0.63
2:E:291:THR:O	3:F:383:GLN:NE2	2.32	0.63
3:F:543:GLU:OE2	3:F:641:ARG:NE	2.30	0.63
1:G:455:ALA:HB1	1:G:645:VAL:HG21	1.80	0.63
1:D:118:ILE:HG12	1:D:144:HIS:HB3	1.81	0.63
3:F:55:TYR:OH	3:F:76:THR:HB	1.98	0.63
3:L:362:GLU:HG3	3:L:375:ARG:HG2	1.80	0.63
1:A:193:GLN:OE1	1:A:193:GLN:N	2.32	0.63
1:A:590:GLN:HB3	2:B:543:THR:HG21	1.79	0.63
1:J:300:GLU:HB2	2:K:571:ARG:HH21	1.64	0.63
3:L:499:ASP:OD2	3:L:505:ARG:NH2	2.31	0.63
1:G:462:GLY:O	1:G:466:ASN:ND2	2.30	0.63
3:I:453:HIS:HE1	3:I:473:MET:HE2	1.64	0.63
2:K:453:ALA:HB3	2:K:459:ILE:HG12	1.80	0.63
2:K:608:GLU:OE2	2:K:612:LYS:NZ	2.32	0.63
3:F:443:LYS:HA	3:F:446:PHE:HD2	1.64	0.62
3:I:532:SER:O	3:I:555:ARG:NH1	2.31	0.62
1:A:116:ARG:NH1	1:A:162:THR:OG1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:665:SER:OG	3:F:58:THR:O	2.16	0.62
3:F:358:ASP:OD1	3:F:359:GLY:N	2.32	0.62
2:H:309:TRP:HZ2	2:H:416:SER:HB3	1.65	0.62
1:J:318:LYS:NZ	1:J:544:GLU:OE2	2.31	0.62
2:B:282:LEU:HB2	2:B:501:PHE:HZ	1.64	0.62
2:B:371:GLU:OE1	2:B:371:GLU:N	2.32	0.62
2:E:509:LEU:HD23	2:E:509:LEU:H	1.64	0.62
2:H:326:THR:HB	2:H:334:ARG:HG2	1.82	0.62
2:H:572:ARG:HA	3:I:94:LEU:HD12	1.81	0.62
2:B:746:ILE:HG23	3:C:8:ARG:HD3	1.82	0.62
1:G:427:GLU:HA	4:O:56:ALA:HB1	1.80	0.62
2:H:509:LEU:HD23	2:H:509:LEU:H	1.64	0.62
2:K:222:LEU:HB3	2:K:347:LYS:HA	1.82	0.62
3:L:597:ARG:NH2	3:L:622:ALA:O	2.30	0.62
1:A:75:ARG:NH1	1:A:111:ASP:OD2	2.32	0.62
1:G:429:GLY:O	4:O:54:ASN:ND2	2.33	0.62
1:A:528:THR:O	1:A:564:TYR:OH	2.18	0.62
1:A:674:ASP:OD2	2:B:498:ARG:NH2	2.32	0.62
3:F:407:GLU:OE1	3:F:476:ARG:NH2	2.25	0.62
1:G:442:ARG:HE	1:G:608:THR:HG23	1.65	0.62
2:H:660:VAL:HG23	2:H:661:ALA:H	1.64	0.62
1:J:647:ASN:OD1	1:J:699:TRP:NE1	2.29	0.62
2:B:700:PHE:O	2:B:703:SER:OG	2.16	0.62
3:F:341:GLU:HA	3:F:354:ILE:O	2.00	0.62
3:F:586:LYS:HG2	3:F:589:ARG:HH21	1.64	0.62
1:G:173:THR:OG1	3:I:696:ILE:N	2.28	0.62
1:G:530:PRO:HG3	1:G:542:VAL:HG11	1.82	0.62
3:I:296:ASP:OD1	3:I:299:ARG:NH1	2.31	0.62
1:A:198:GLU:HG2	1:A:200:THR:HG22	1.82	0.62
1:G:606:ASP:HB2	3:I:135:PHE:CG	2.35	0.62
4:P:115:LEU:HD22	4:P:116:GLY:H	1.64	0.62
1:G:573:ILE:HA	1:G:576:LYS:HG2	1.82	0.62
3:I:124:ARG:HH12	3:I:149:PRO:HG3	1.65	0.62
1:J:189:ASP:HA	2:K:162:ARG:HH12	1.65	0.62
1:D:31:GLU:OE1	1:D:200:THR:OG1	2.18	0.62
1:J:528:THR:O	1:J:564:TYR:OH	2.17	0.62
2:H:485:ASN:ND2	2:H:489:THR:O	2.28	0.61
2:B:723:ARG:HG2	2:B:744:MET:HE2	1.81	0.61
1:D:198:GLU:HG2	1:D:200:THR:HG22	1.82	0.61
1:J:198:GLU:HG2	1:J:200:THR:HG22	1.81	0.61
2:E:397:ILE:HD12	2:E:397:ILE:C	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:432:VAL:HG21	2:H:602:ARG:HD3	1.81	0.61
1:G:506:LYS:NZ	1:G:507:GLY:O	2.28	0.61
1:J:193:GLN:OE1	1:J:193:GLN:N	2.33	0.61
3:C:358:ASP:OD1	3:C:359:GLY:N	2.33	0.61
3:F:165:GLU:HG2	3:F:172:VAL:HG21	1.83	0.61
2:H:129:TYR:OH	2:H:134:ASN:OD1	2.13	0.61
2:H:507:MET:SD	2:H:537:ASN:ND2	2.73	0.61
1:A:506:LYS:NZ	1:A:507:GLY:O	2.29	0.61
1:D:77:GLU:OE2	3:F:753:ARG:NH2	2.34	0.61
2:E:276:ASN:O	2:E:279:LYS:HB2	2.00	0.61
2:H:313:GLN:HB3	2:H:318:PHE:HE2	1.66	0.61
2:H:666:TRP:NE1	3:I:47:MET:SD	2.74	0.61
2:K:370:ALA:HA	2:K:373:LEU:HD13	1.83	0.61
3:I:176:ILE:HG13	3:I:693:GLY:HA3	1.83	0.61
1:J:219:LEU:HD23	1:J:223:PHE:HB2	1.82	0.61
2:K:279:LYS:HE3	2:K:503:ALA:HB2	1.81	0.61
2:E:287:ARG:NH1	3:F:460:MET:SD	2.73	0.61
1:G:11:PRO:HG2	3:I:285:HIS:NE2	2.16	0.61
3:I:354:ILE:HD11	3:I:431:MET:HE3	1.83	0.61
2:K:591:VAL:HG23	2:K:612:LYS:HZ1	1.66	0.61
2:E:407:MET:HE1	2:E:412:PHE:H	1.66	0.61
1:G:43:GLU:HG2	1:G:47:MET:HE2	1.82	0.61
2:H:225:ASN:O	2:H:243:THR:N	2.34	0.61
2:H:289:MET:HB3	2:H:452:ASN:HD21	1.66	0.61
3:I:250:VAL:HG12	3:I:251:ARG:H	1.65	0.61
1:J:77:GLU:OE2	3:L:753:ARG:NH2	2.33	0.61
2:K:131:TRP:O	2:K:220:ARG:NH1	2.34	0.61
2:K:492:PHE:O	2:K:495:PHE:HB2	2.01	0.61
2:E:485:ASN:ND2	2:E:489:THR:O	2.25	0.60
2:H:311:GLU:N	2:H:311:GLU:OE1	2.33	0.60
3:I:618:LEU:HD21	3:I:649:VAL:HG12	1.81	0.60
3:I:142:ARG:HB3	3:I:217:PHE:HE1	1.66	0.60
3:L:358:ASP:OD1	3:L:359:GLY:N	2.34	0.60
2:B:397:ILE:HD12	2:B:397:ILE:C	2.27	0.60
1:D:193:GLN:OE1	1:D:193:GLN:N	2.33	0.60
3:I:751:THR:HA	3:I:754:ILE:HG22	1.83	0.60
1:A:543:LEU:HD12	1:A:563:LEU:HD23	1.84	0.60
3:F:657:ASN:HB3	3:F:666:THR:HB	1.83	0.60
1:G:234:ASP:OD1	2:H:334:ARG:NH2	2.35	0.60
3:L:260:ILE:O	3:L:264:ARG:HG2	2.02	0.60
2:B:313:GLN:HB3	2:B:318:PHE:HE2	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:370:ALA:HA	2:B:373:LEU:HD13	1.83	0.60
2:B:572:ARG:NH2	3:C:97:THR:OG1	2.29	0.60
2:B:708:PRO:HA	3:C:728:GLN:HE21	1.66	0.60
3:C:242:GLN:NE2	3:C:243:MET:O	2.35	0.60
1:D:484:PRO:HB2	1:D:486:ILE:HG13	1.84	0.60
1:A:326:HIS:O	1:A:326:HIS:ND1	2.32	0.60
2:E:95:LEU:HD12	2:E:422:SER:HB3	1.83	0.60
2:E:514:VAL:HG11	2:E:558:THR:HG21	1.84	0.60
1:A:529:ASP:HB3	1:A:531:ARG:HG2	1.82	0.60
1:D:120:ILE:HA	1:D:146:HIS:O	2.02	0.60
2:K:662:THR:HG23	3:L:96:VAL:HG11	1.83	0.60
1:A:33:ASN:HD22	1:A:193:GLN:HG2	1.66	0.60
3:I:206:MET:HE3	3:I:206:MET:HA	1.84	0.60
1:J:359:ASN:ND2	1:J:479:ASP:OD2	2.35	0.60
1:D:647:ASN:OD1	1:D:699:TRP:NE1	2.32	0.60
2:E:708:PRO:HB3	3:F:728:GLN:HG3	1.83	0.60
1:J:652:SER:N	2:K:24:TYR:OH	2.33	0.60
1:A:68:PRO:HB3	1:A:72:LEU:HG	1.84	0.59
2:B:706:ARG:HH11	3:C:164:MET:HG3	1.67	0.59
2:E:685:ASP:OD2	2:E:687:GLN:HB2	2.02	0.59
1:G:438:ILE:HG23	1:G:608:THR:HG21	1.83	0.59
1:J:26:GLU:HG3	1:J:31:GLU:HG3	1.82	0.59
1:J:578:GLY:HA2	1:J:581:MET:HE3	1.83	0.59
3:L:361:GLU:OE1	3:L:376:LYS:NZ	2.32	0.59
1:D:427:GLU:O	2:E:597:ASN:ND2	2.35	0.59
1:G:68:PRO:HB3	1:G:72:LEU:HD13	1.84	0.59
3:I:533:SER:O	3:I:537:TRP:NE1	2.36	0.59
3:L:289:ILE:O	3:L:292:THR:OG1	2.19	0.59
3:C:662:THR:HG22	3:C:664:ARG:HG3	1.83	0.59
1:G:193:GLN:OE1	1:G:193:GLN:N	2.36	0.59
1:J:148:PHE:HE1	1:J:154:GLU:HG3	1.67	0.59
2:K:588:GLY:HA3	2:K:616:MET:HA	1.84	0.59
2:H:407:MET:HE1	2:H:412:PHE:HB2	1.85	0.59
1:J:300:GLU:HB2	2:K:571:ARG:NH2	2.18	0.59
2:K:572:ARG:NH2	3:L:97:THR:OG1	2.33	0.59
3:L:153:ASP:OD2	3:L:301:ASN:ND2	2.34	0.59
2:E:517:ILE:N	2:E:522:ASP:OD2	2.31	0.59
2:E:723:ARG:HG2	2:E:744:MET:HE2	1.84	0.59
3:F:542:PRO:O	3:F:545:VAL:HG12	2.02	0.59
2:H:370:ALA:HA	2:H:373:LEU:HD13	1.85	0.59
4:M:100:ARG:NH2	4:M:110:THR:OG1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:170:ARG:HE	3:C:741:SER:HB3	1.67	0.59
3:C:289:ILE:O	3:C:292:THR:OG1	2.21	0.59
3:C:560:VAL:HG13	3:C:571:LEU:HD11	1.83	0.59
2:B:662:THR:HG23	3:C:96:VAL:HG11	1.85	0.59
2:E:125:GLY:HA3	2:E:249:ARG:HH21	1.67	0.59
1:J:302:ILE:HD12	1:J:303:PRO:HD2	1.84	0.59
3:L:338:ILE:HG23	3:L:358:ASP:HB3	1.85	0.59
1:A:484:PRO:HB2	1:A:486:ILE:HG13	1.85	0.59
2:H:423:ILE:HD13	2:H:475:ILE:HD12	1.84	0.59
3:I:446:PHE:HB3	3:I:465:PRO:HB3	1.84	0.59
3:C:657:ASN:HB3	3:C:666:THR:HB	1.83	0.59
2:E:691:LYS:NZ	3:F:6:GLU:OE2	2.35	0.59
1:G:351:GLU:OE2	1:G:358:LYS:NZ	2.36	0.59
3:I:410:MET:HE1	3:I:434:LEU:HD13	1.85	0.59
3:F:297:ILE:O	3:F:301:ASN:N	2.36	0.58
2:K:556:ARG:NH2	2:K:595:GLY:O	2.36	0.58
3:C:135:PHE:CE2	3:C:240:TRP:HB3	2.38	0.58
2:H:287:ARG:NH1	3:I:460:MET:SD	2.75	0.58
2:K:612:LYS:O	2:K:616:MET:HG3	2.02	0.58
2:B:310:ASN:ND2	2:B:409:MET:HA	2.18	0.58
2:E:756:GLN:O	3:F:17:ARG:NH1	2.36	0.58
3:C:742:SER:HB3	3:C:744:LEU:HG	1.84	0.58
1:G:326:HIS:O	1:G:326:HIS:ND1	2.33	0.58
1:A:215:ALA:HB1	1:A:226:LEU:HD13	1.84	0.58
2:H:303:THR:HG21	2:H:491:GLU:HB3	1.85	0.58
1:J:455:ALA:HB1	1:J:645:VAL:HG21	1.83	0.58
3:I:275:ASP:HB2	1:J:92:ASN:HB3	1.86	0.58
2:K:427:GLY:HA3	2:K:438:TRP:CE2	2.39	0.58
3:L:461:ILE:HG13	3:L:480:VAL:HG13	1.84	0.58
1:A:462:GLY:O	1:A:466:ASN:ND2	2.31	0.58
3:C:159:ALA:O	3:C:163:ILE:HG12	2.03	0.58
2:H:548:LEU:HD11	2:H:599:TYR:HB3	1.86	0.58
1:D:26:GLU:HG3	1:D:31:GLU:HG3	1.85	0.57
2:E:50:SER:HB3	2:E:68:PRO:HG3	1.84	0.57
2:E:371:GLU:OE1	2:E:371:GLU:N	2.34	0.57
3:F:70:ARG:NH1	3:F:74:GLY:O	2.37	0.57
1:G:54:ILE:HG12	1:G:75:ARG:HB2	1.86	0.57
1:G:336:LEU:HB3	1:G:365:GLN:HG2	1.86	0.57
3:I:358:ASP:OD1	3:I:359:GLY:N	2.36	0.57
1:D:208:THR:HG22	1:D:209:GLY:H	1.69	0.57
3:I:237:GLY:HA3	3:I:240:TRP:CE2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:297:HIS:HB3	2:K:568:ILE:HA	1.85	0.57
1:J:484:PRO:HB2	1:J:486:ILE:HG13	1.86	0.57
3:L:151:HIS:H	3:L:252:ASN:ND2	2.02	0.57
1:A:185:ARG:HH21	3:C:157:LYS:HE2	1.69	0.57
1:D:288:LEU:HD22	1:D:527:LEU:HD11	1.86	0.57
3:F:721:LYS:HA	3:F:734:VAL:O	2.03	0.57
1:G:1:MET:HG2	1:G:32:THR:HB	1.86	0.57
2:K:518:ASN:HD21	2:K:663:THR:HA	1.69	0.57
1:A:73:LYS:HE3	1:A:112:TYR:HE2	1.70	0.57
1:D:430:GLU:O	4:N:53:ASN:ND2	2.34	0.57
1:J:78:ILE:HA	1:J:109:LEU:HD12	1.86	0.57
4:O:67:ARG:NH1	4:O:90:ASP:OD2	2.36	0.57
1:D:578:GLY:HA2	1:D:581:MET:HG3	1.85	0.57
3:I:55:TYR:HD1	3:I:92:SER:HB2	1.70	0.57
3:L:533:SER:H	3:L:537:TRP:NE1	2.02	0.57
1:A:43:GLU:HG2	1:A:47:MET:HE2	1.87	0.57
2:B:302:ILE:HG12	2:B:449:LEU:HB3	1.87	0.57
3:L:249:GLU:N	3:L:249:GLU:OE1	2.37	0.57
3:L:471:THR:OG1	3:L:472:GLU:OE1	2.19	0.57
3:L:532:SER:OG	3:L:555:ARG:NH1	2.35	0.57
3:F:664:ARG:NH2	3:F:671:ASP:OD2	2.38	0.57
1:G:597:GLU:O	1:G:601:SER:N	2.37	0.57
2:K:589:LEU:HA	2:K:620:TYR:HE2	1.69	0.57
3:C:154:LEU:HD11	3:C:185:ILE:HD12	1.86	0.57
2:K:276:ASN:O	2:K:279:LYS:HB2	2.05	0.57
1:A:208:THR:HG22	1:A:209:GLY:H	1.70	0.57
1:A:434:PRO:HB2	1:A:435:ILE:HD12	1.87	0.57
2:B:371:GLU:HG3	2:B:399:GLY:HA3	1.87	0.57
2:E:602:ARG:HA	3:F:234:LEU:HD12	1.87	0.57
1:G:427:GLU:O	2:H:597:ASN:ND2	2.37	0.57
2:K:160:SER:OG	2:K:165:ASP:OD2	2.22	0.57
2:K:434:THR:HG22	2:K:435:THR:H	1.69	0.57
1:A:522:SER:O	1:A:565:VAL:HA	2.05	0.56
3:C:398:ILE:HD11	3:C:478:ILE:HD11	1.86	0.56
2:E:746:ILE:HG23	3:F:8:ARG:HD3	1.87	0.56
2:E:623:ARG:HD3	3:F:103:GLY:H	1.70	0.56
3:F:261:ILE:HG23	3:F:522:GLN:HG3	1.87	0.56
2:H:518:ASN:O	2:H:559:TYR:OH	2.16	0.56
1:J:246:LEU:O	2:K:468:ARG:NH2	2.38	0.56
1:J:506:LYS:NZ	1:J:507:GLY:O	2.35	0.56
3:L:57:ILE:O	3:L:91:VAL:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:432:VAL:HG11	2:B:602:ARG:HD3	1.87	0.56
3:C:499:ASP:HB3	3:C:505:ARG:HH12	1.70	0.56
3:C:544:SER:HA	3:C:547:VAL:HG22	1.86	0.56
1:D:495:ARG:NH1	4:N:85:ASN:HB2	2.21	0.56
1:G:276:CYS:HB2	1:G:698:PRO:HG3	1.88	0.56
1:G:359:ASN:ND2	1:G:479:ASP:OD2	2.39	0.56
2:H:518:ASN:HB3	2:H:521:ALA:HB3	1.86	0.56
3:I:408:ASP:O	3:I:412:LYS:HG2	2.06	0.56
3:I:586:LYS:HG2	3:I:589:ARG:NH2	2.20	0.56
3:L:374:LEU:HB2	3:L:384:LEU:HD13	1.87	0.56
4:M:95:TYR:CE1	4:M:115:LEU:HD11	2.40	0.56
1:A:220:PRO:HG2	1:A:223:PHE:HE2	1.70	0.56
2:K:374:ALA:HB2	2:K:396:LEU:HD11	1.86	0.56
4:M:51:VAL:HG23	4:M:58:THR:HG22	1.87	0.56
1:A:338:TRP:NE1	1:A:545:ILE:HD11	2.20	0.56
2:B:70:ASP:HB3	2:B:85:THR:H	1.71	0.56
2:B:318:PHE:HA	2:B:321:MET:HG2	1.88	0.56
2:E:70:ASP:HA	2:E:84:GLN:HA	1.88	0.56
2:K:110:THR:O	2:K:114:VAL:HG13	2.05	0.56
2:K:579:LEU:HD21	3:L:101:ARG:HA	1.87	0.56
4:O:51:VAL:HB	4:O:70:ILE:HD13	1.87	0.56
1:J:326:HIS:CE1	1:J:539:LYS:HA	2.40	0.56
3:L:237:GLY:HA3	3:L:240:TRP:CE2	2.40	0.56
3:L:537:TRP:HH2	3:L:552:TRP:HB2	1.71	0.56
2:B:160:SER:OG	2:B:165:ASP:OD2	2.19	0.56
1:D:114:GLU:HB2	1:D:116:ARG:HG2	1.87	0.56
1:D:583:ARG:HD3	2:E:25:THR:HG21	1.88	0.56
1:G:492:LYS:HE2	4:O:82:ARG:HH22	1.70	0.56
2:H:318:PHE:HA	2:H:321:MET:HG2	1.87	0.56
3:I:71:ASN:ND2	3:I:75:GLN:OE1	2.37	0.56
3:L:497:SER:OG	3:L:505:ARG:O	2.24	0.56
1:A:449:GLU:O	1:A:638:ARG:NH2	2.39	0.56
1:D:125:ARG:HG2	1:D:126:GLU:H	1.69	0.56
3:I:230:GLU:HG3	3:I:231:VAL:HG13	1.86	0.56
2:K:700:PHE:O	2:K:703:SER:OG	2.22	0.56
4:P:99:ARG:HH12	4:P:104:ILE:HA	1.71	0.56
2:B:102:ILE:HD11	2:B:265:LYS:HB2	1.87	0.56
3:L:748:GLN:OE1	3:L:748:GLN:N	2.39	0.56
4:O:52:SER:HA	4:O:104:ILE:HD11	1.88	0.56
1:A:673:ARG:HG2	1:A:716:ARG:NH2	2.21	0.56
3:I:276:PRO:HB2	3:I:502:LEU:HG	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:208:THR:HG22	1:J:209:GLY:H	1.70	0.56
2:K:224:LEU:HD23	2:K:408:MET:HG3	1.87	0.56
3:L:55:TYR:HD1	3:L:92:SER:HB2	1.70	0.56
1:G:148:PHE:HE1	1:G:154:GLU:HG3	1.71	0.55
1:G:208:THR:HG22	1:G:209:GLY:H	1.71	0.55
1:G:576:LYS:HA	1:G:579:MET:HG2	1.87	0.55
2:B:423:ILE:HD11	2:B:469:THR:HB	1.88	0.55
3:C:27:HIS:O	3:C:30:ILE:HG12	2.06	0.55
1:D:606:ASP:HB2	3:F:135:PHE:CG	2.41	0.55
3:F:331:LYS:HE2	3:F:490:SER:H	1.71	0.55
3:I:131:GLY:H	3:I:242:GLN:NE2	2.04	0.55
3:I:296:ASP:HA	3:I:299:ARG:HD2	1.88	0.55
2:E:355:TYR:HE2	2:E:385:THR:HG21	1.71	0.55
3:F:27:HIS:O	3:F:30:ILE:HG12	2.07	0.55
3:F:488:TYR:HE1	3:F:490:SER:HB2	1.72	0.55
2:H:712:SER:OG	3:I:730:ASP:HB3	2.07	0.55
1:D:442:ARG:NH1	1:D:593:GLU:OE2	2.39	0.55
2:E:252:VAL:HG21	2:E:411:MET:HE3	1.88	0.55
1:G:98:THR:O	3:L:575:MET:HE3	2.07	0.55
1:G:203:GLU:HG2	2:H:162:ARG:HH21	1.71	0.55
3:I:77:LEU:HD12	3:I:78:TRP:CD1	2.41	0.55
2:B:602:ARG:HA	3:C:234:LEU:HD12	1.89	0.55
1:J:622:GLY:HA3	2:K:1:MET:HE1	1.89	0.55
1:A:120:ILE:HA	1:A:146:HIS:O	2.07	0.55
1:A:170:ARG:NH1	3:C:739:ARG:HB3	2.20	0.55
2:E:347:LYS:NZ	2:E:403:LEU:O	2.40	0.55
3:F:289:ILE:O	3:F:292:THR:OG1	2.21	0.55
3:F:444:VAL:O	3:F:448:ASN:HB2	2.06	0.55
2:H:620:TYR:O	2:H:624:LEU:HB2	2.06	0.55
1:J:590:GLN:HB3	2:K:543:THR:HG21	1.88	0.55
1:G:120:ILE:HA	1:G:146:HIS:O	2.06	0.55
2:H:589:LEU:HA	2:H:620:TYR:CE2	2.42	0.55
3:I:406:GLN:NE2	3:I:431:MET:SD	2.78	0.55
3:C:586:LYS:HG2	3:C:589:ARG:HH21	1.70	0.55
2:E:507:MET:HE1	2:E:539:LEU:HB3	1.89	0.55
3:F:408:ASP:O	3:F:412:LYS:HG2	2.07	0.55
3:I:242:GLN:NE2	3:I:243:MET:O	2.40	0.55
3:I:275:ASP:N	1:J:96:ASN:HD21	2.02	0.55
3:I:446:PHE:HD1	3:I:475:MET:HE2	1.71	0.55
1:J:50:ASP:O	1:J:52:HIS:ND1	2.40	0.55
3:F:57:ILE:O	3:F:91:VAL:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:281:LYS:HE3	3:I:142:ARG:HH12	1.70	0.55
2:H:371:GLU:OE1	2:H:371:GLU:N	2.36	0.55
1:J:580:GLU:HG2	2:K:512:PHE:HE1	1.70	0.55
2:K:371:GLU:OE1	2:K:371:GLU:N	2.37	0.55
2:K:504:ASN:HA	2:K:507:MET:HB2	1.87	0.55
3:C:135:PHE:CZ	3:C:240:TRP:HB3	2.42	0.55
3:C:206:MET:HA	3:C:206:MET:HE3	1.89	0.55
1:D:2:GLU:CD	3:F:318:ARG:HH21	2.14	0.55
3:F:206:MET:HA	3:F:206:MET:HE3	1.89	0.55
1:G:439:ALA:HB2	2:H:541:PRO:HB2	1.89	0.55
1:J:433:ALA:HB3	1:J:436:GLU:HG3	1.88	0.55
4:O:91:SER:OG	4:O:120:VAL:HG13	2.06	0.55
1:D:261:LEU:O	1:D:265:PRO:HD3	2.07	0.54
2:E:287:ARG:O	2:E:291:THR:OG1	2.22	0.54
3:F:51:MET:HE1	3:F:93:PRO:HG3	1.89	0.54
3:F:124:ARG:HH22	3:F:149:PRO:HB2	1.72	0.54
3:F:748:GLN:OE1	3:F:748:GLN:N	2.40	0.54
1:G:230:ARG:NH1	2:H:335:ASN:OD1	2.40	0.54
2:H:269:SER:HB2	2:H:421:VAL:HG21	1.89	0.54
2:K:632:VAL:HG12	2:K:663:THR:HB	1.89	0.54
3:L:737:ARG:NH1	3:L:740:ASP:OD1	2.33	0.54
1:G:241:TYR:CD2	2:H:86:ASP:HB2	2.42	0.54
1:G:583:ARG:NH2	2:H:511:SER:HA	2.22	0.54
2:B:576:LEU:HD12	3:C:97:THR:HG21	1.89	0.54
3:C:338:ILE:HG23	3:C:358:ASP:HB3	1.89	0.54
1:D:220:PRO:HG2	1:D:223:PHE:HE2	1.71	0.54
1:D:266:ARG:O	1:D:687:TYR:OH	2.16	0.54
2:H:602:ARG:HA	3:I:234:LEU:HD12	1.89	0.54
1:G:289:LYS:HB3	1:G:499:ASN:HD22	1.72	0.54
1:G:431:ASP:HB3	1:G:437:TYR:CE1	2.42	0.54
2:H:531:LYS:HA	2:H:534:MET:HE3	1.90	0.54
3:I:101:ARG:NE	3:I:102:ASN:OD1	2.27	0.54
3:I:146:ASP:HA	3:I:215:THR:HA	1.90	0.54
1:J:408:GLN:HE21	1:J:412:ASN:HD21	1.54	0.54
1:J:673:ARG:NH2	2:K:9:PHE:O	2.40	0.54
1:J:408:GLN:HE21	1:J:412:ASN:ND2	2.06	0.54
4:N:91:SER:OG	4:N:120:VAL:HG13	2.07	0.54
1:A:554:ILE:HA	4:O:43:LYS:HD3	1.89	0.54
2:B:70:ASP:HA	2:B:84:GLN:HA	1.89	0.54
1:D:50:ASP:O	1:D:52:HIS:ND1	2.39	0.54
1:D:125:ARG:HB2	1:D:195:GLU:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:260:ARG:HA	2:E:414:MET:HE2	1.89	0.54
3:F:533:SER:OG	3:F:536:MET:N	2.39	0.54
1:G:478:ASP:O	1:G:508:ARG:NH1	2.41	0.54
3:I:387:SER:HB3	3:I:481:SER:HB3	1.89	0.54
1:A:530:PRO:HG3	1:A:542:VAL:HG11	1.90	0.54
2:B:326:THR:HB	2:B:334:ARG:HG2	1.88	0.54
2:B:434:THR:HG22	2:B:435:THR:H	1.71	0.54
1:D:134:LYS:HB3	1:D:145:ILE:HD13	1.89	0.54
3:F:129:THR:OG1	3:F:245:THR:OG1	2.24	0.54
1:G:408:GLN:HE21	1:G:412:ASN:ND2	2.03	0.54
2:H:514:VAL:HG11	2:H:558:THR:HG21	1.90	0.54
2:B:181:ILE:HB	2:B:211:ARG:HG3	1.90	0.54
1:D:16:LEU:HD21	3:F:754:ILE:HG12	1.90	0.54
1:D:326:HIS:O	1:D:326:HIS:ND1	2.38	0.54
2:H:423:ILE:HG21	2:H:473:VAL:HG21	1.88	0.54
2:H:434:THR:HG22	2:H:435:THR:H	1.72	0.54
1:J:529:ASP:HB3	1:J:531:ARG:HG2	1.89	0.54
1:A:408:GLN:HE21	1:A:412:ASN:ND2	2.05	0.54
1:A:440:SER:OG	4:M:54:ASN:OD1	2.18	0.54
3:C:420:PHE:O	3:C:433:GLN:NE2	2.41	0.54
1:D:408:GLN:HE21	1:D:412:ASN:ND2	2.04	0.54
3:F:131:GLY:H	3:F:242:GLN:HE22	1.56	0.54
2:H:627:PRO:HB3	3:I:198:ILE:HG23	1.90	0.54
3:I:372:ALA:HB2	3:I:386:VAL:HG13	1.89	0.54
2:B:569:GLN:HG3	2:B:573:SER:HB2	1.90	0.54
3:C:540:ASN:OD1	3:C:541:GLY:N	2.36	0.54
1:D:681:PHE:CE1	2:E:484:ILE:HD11	2.42	0.54
1:G:47:MET:HE1	1:G:174:ARG:HG2	1.89	0.54
1:G:549:LEU:HD23	1:G:549:LEU:H	1.73	0.54
3:I:517:GLU:N	3:I:517:GLU:OE1	2.41	0.54
2:K:587:ALA:HB2	4:P:105:TRP:HB2	1.90	0.54
2:K:721:ARG:NH2	3:L:709:SER:OG	2.40	0.54
1:A:520:PHE:CE1	1:A:568:ASN:HB3	2.43	0.53
3:C:408:ASP:O	3:C:412:LYS:HG2	2.08	0.53
1:D:274:PRO:O	1:D:402:SER:N	2.37	0.53
1:A:125:ARG:HG2	1:A:126:GLU:H	1.72	0.53
1:A:253:VAL:O	2:B:468:ARG:HD3	2.07	0.53
1:A:549:LEU:HD23	1:A:549:LEU:H	1.73	0.53
2:B:347:LYS:NZ	2:B:403:LEU:O	2.40	0.53
3:C:142:ARG:HB2	3:C:487:GLU:O	2.08	0.53
1:J:305:TYR:O	1:J:308:ILE:HG13	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:366:VAL:HA	3:L:371:THR:HG22	1.90	0.53
1:D:263:THR:HG23	1:D:716:ARG:NH1	2.23	0.53
1:D:455:ALA:HB1	1:D:645:VAL:HG21	1.89	0.53
1:G:210:THR:HG21	2:H:175:ASP:HA	1.90	0.53
1:D:168:ARG:HG2	1:D:172:LYS:HE3	1.90	0.53
2:H:583:THR:O	2:H:586:LYS:NZ	2.33	0.53
2:H:627:PRO:HD3	3:I:108:THR:HG21	1.89	0.53
2:H:704:SER:HB2	3:I:201:LEU:HD21	1.91	0.53
3:L:697:LEU:HD21	3:L:735:MET:HB2	1.89	0.53
3:C:544:SER:O	3:C:548:ASN:HB2	2.08	0.53
3:C:748:GLN:OE1	3:C:748:GLN:N	2.41	0.53
1:D:241:TYR:HD2	2:E:86:ASP:HB2	1.74	0.53
3:F:589:ARG:HG2	3:F:624:ALA:HB2	1.90	0.53
2:K:258:LEU:HD21	2:K:325:ILE:HG21	1.90	0.53
3:L:242:GLN:NE2	3:L:243:MET:O	2.41	0.53
3:L:274:ALA:O	3:L:500:ARG:NH2	2.41	0.53
1:A:212:ARG:HH12	1:A:227:GLU:HG2	1.74	0.53
1:A:258:GLU:OE2	1:A:683:LEU:N	2.39	0.53
1:A:492:LYS:HE2	4:M:82:ARG:HH12	1.73	0.53
3:I:27:HIS:O	3:I:30:ILE:HG12	2.09	0.53
4:O:7:SER:HA	4:O:117:GLN:HE21	1.74	0.53
1:A:523:MET:HG2	1:A:565:VAL:HG22	1.91	0.53
1:D:520:PHE:CE1	1:D:568:ASN:HB3	2.43	0.53
2:E:219:ILE:HG23	2:E:348:MET:HG3	1.90	0.53
1:G:154:GLU:OE2	1:G:168:ARG:HD2	2.09	0.53
2:H:558:THR:HG23	3:I:48:LYS:HG2	1.90	0.53
2:K:310:ASN:ND2	2:K:409:MET:HA	2.24	0.53
1:A:443:ARG:HH12	4:M:54:ASN:HB3	1.73	0.53
1:D:64:GLU:HG3	3:F:739:ARG:HD3	1.91	0.53
1:D:68:PRO:HB2	1:D:72:LEU:HG	1.90	0.53
2:E:707:ARG:HG2	3:F:29:ALA:HB2	1.90	0.53
1:G:431:ASP:HB3	1:G:437:TYR:HE1	1.73	0.53
3:I:135:PHE:CZ	3:I:240:TRP:HB3	2.44	0.53
2:K:470:CYS:HB3	2:K:475:ILE:O	2.09	0.53
3:L:27:HIS:O	3:L:30:ILE:HG12	2.08	0.53
4:O:37:VAL:HG22	4:O:47:TRP:HA	1.90	0.53
2:B:131:TRP:O	2:B:220:ARG:NH1	2.42	0.53
2:E:65:GLN:NE2	2:E:346:ASN:OD1	2.42	0.53
3:F:295:VAL:HG12	3:F:315:MET:HE1	1.89	0.53
2:H:357:PHE:O	2:H:366:THR:N	2.41	0.53
2:H:518:ASN:OD1	2:H:663:THR:HA	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:97:ALA:HB1	4:O:111:ASP:CG	2.34	0.53
1:D:684:GLU:O	1:D:688:GLU:HG2	2.08	0.53
2:E:434:THR:HG22	2:E:435:THR:H	1.74	0.53
3:F:55:TYR:CD1	3:F:92:SER:HB2	2.42	0.53
3:F:146:ASP:HA	3:F:215:THR:HA	1.91	0.53
3:F:428:LEU:HD22	3:F:516:GLU:HG2	1.91	0.53
2:K:554:ASP:O	2:K:558:THR:OG1	2.17	0.53
4:M:35:THR:HG22	4:M:50:MET:HG2	1.90	0.53
1:A:47:MET:HE1	1:A:174:ARG:HG2	1.91	0.52
2:B:70:ASP:OD2	2:B:85:THR:OG1	2.27	0.52
1:D:401:ARG:HH11	1:D:696:ASN:HB2	1.74	0.52
4:O:6:GLU:HG2	4:O:116:GLY:HA3	1.91	0.52
2:E:133:LEU:HD11	2:E:683:LEU:HD22	1.91	0.52
2:E:690:GLN:O	2:E:694:ASN:ND2	2.34	0.52
1:G:310:CYS:O	1:G:313:THR:OG1	2.24	0.52
4:N:51:VAL:HG23	4:N:58:THR:HG22	1.91	0.52
1:D:203:GLU:OE2	2:E:162:ARG:NH2	2.43	0.52
1:D:530:PRO:HG3	1:D:542:VAL:HG11	1.91	0.52
1:G:403:LEU:HD12	1:G:701:LEU:HB3	1.91	0.52
3:I:290:GLY:N	3:I:529:ILE:HG12	2.13	0.52
3:L:108:THR:HA	3:L:110:HIS:HD2	1.75	0.52
1:A:274:PRO:O	1:A:402:SER:N	2.43	0.52
1:A:457:GLU:OE2	1:A:501:TYR:OH	2.27	0.52
2:B:627:PRO:HD3	3:C:108:THR:HG21	1.92	0.52
3:C:55:TYR:CD1	3:C:92:SER:HB2	2.39	0.52
1:D:463:VAL:HG11	1:D:582:ARG:HH22	1.73	0.52
1:G:560:PRO:HB2	1:G:562:PHE:CE1	2.40	0.52
3:I:255:VAL:HA	3:I:527:LEU:HD11	1.92	0.52
1:J:81:GLY:C	3:L:754:ILE:HD11	2.35	0.52
1:J:290:LEU:HD23	1:J:310:CYS:HB3	1.92	0.52
2:K:335:ASN:O	2:K:339:ILE:HG12	2.08	0.52
3:L:387:SER:OG	3:L:485:VAL:N	2.40	0.52
2:B:710:GLY:N	3:C:26:ASP:OD1	2.34	0.52
3:C:142:ARG:HB3	3:C:217:PHE:HE1	1.75	0.52
3:I:395:ALA:O	3:I:398:ILE:HG22	2.09	0.52
2:K:387:LYS:HG2	2:K:391:LYS:HE2	1.91	0.52
2:K:708:PRO:HA	3:L:728:GLN:HE21	1.75	0.52
4:O:2:VAL:HA	4:O:25:SER:O	2.09	0.52
1:A:150:PHE:HB3	1:A:179:ARG:HB2	1.91	0.52
2:B:695:LEU:HD21	3:C:7:LEU:HG	1.92	0.52
2:E:70:ASP:HB3	2:E:85:THR:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:108:LEU:HA	2:E:111:MET:HE2	1.90	0.52
1:G:484:PRO:HB2	1:G:486:ILE:HG13	1.91	0.52
3:I:658:TYR:HB2	3:I:665:LEU:HD13	1.92	0.52
4:P:35:THR:HG22	4:P:50:MET:HG2	1.92	0.52
1:A:78:ILE:HA	1:A:109:LEU:HD12	1.91	0.52
3:C:380:ARG:HA	3:C:407:GLU:HG2	1.92	0.52
2:E:518:ASN:HB3	2:E:521:ALA:HB3	1.92	0.52
3:F:371:THR:OG1	3:F:487:GLU:OE2	2.23	0.52
3:F:506:ASP:HB3	3:F:510:ASN:OD1	2.10	0.52
2:H:50:SER:HB3	2:H:68:PRO:HG3	1.92	0.52
1:J:359:ASN:HA	1:J:480:PHE:O	2.10	0.52
3:L:657:ASN:HB3	3:L:666:THR:HB	1.90	0.52
4:M:2:VAL:HA	4:M:25:SER:O	2.10	0.52
1:G:294:ASP:OD1	1:G:294:ASP:N	2.42	0.52
2:H:420:GLY:HA3	2:H:442:GLN:HG2	1.92	0.52
2:H:470:CYS:HB3	2:H:475:ILE:O	2.09	0.52
3:I:131:GLY:H	3:I:242:GLN:HE22	1.57	0.52
1:J:284:LEU:HB3	1:J:458:TYR:CZ	2.45	0.52
3:C:446:PHE:HB3	3:C:465:PRO:HB3	1.92	0.52
3:I:120:GLU:HB3	3:I:124:ARG:NH2	2.25	0.52
3:I:283:MET:O	3:I:533:SER:OG	2.28	0.52
1:A:305:TYR:O	1:A:308:ILE:HG13	2.10	0.52
2:B:225:ASN:O	2:B:243:THR:N	2.43	0.52
2:B:572:ARG:HA	3:C:94:LEU:HD12	1.92	0.52
1:G:220:PRO:HG2	1:G:223:PHE:HE2	1.74	0.52
3:I:265:ASN:OD1	3:I:268:ARG:NH2	2.43	0.52
3:I:269:ARG:NH2	3:I:535:MET:O	2.43	0.52
2:B:339:ILE:O	2:B:343:MET:HG3	2.09	0.51
3:F:131:GLY:H	3:F:242:GLN:NE2	2.08	0.51
2:H:94:PHE:HB3	2:H:431:TYR:CZ	2.45	0.51
3:I:163:ILE:O	3:I:167:VAL:HG12	2.11	0.51
2:K:538:ASP:N	2:K:538:ASP:OD1	2.43	0.51
4:N:67:ARG:NH1	4:N:90:ASP:OD2	2.32	0.51
1:A:583:ARG:HD3	2:B:25:THR:HG21	1.92	0.51
1:D:624:SER:HB3	2:E:1:MET:HA	1.91	0.51
1:D:681:PHE:CE2	2:E:477:MET:HE1	2.46	0.51
1:G:652:SER:OG	1:G:697:ASP:OD2	2.26	0.51
2:B:613:TRP:O	2:B:621:GLN:NE2	2.44	0.51
3:C:163:ILE:O	3:C:167:VAL:HG12	2.10	0.51
3:C:237:GLY:HA3	3:C:240:TRP:CE2	2.46	0.51
2:E:576:LEU:HD12	3:F:97:THR:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:303:THR:HG21	2:B:491:GLU:HB3	1.91	0.51
3:C:115:TYR:HE1	3:C:202:MET:HE1	1.74	0.51
3:C:281:LEU:HD21	3:C:314:ALA:HB1	1.92	0.51
3:F:264:ARG:HE	3:F:305:GLU:CD	2.19	0.51
1:G:257:ILE:HD13	2:H:460:GLN:HG3	1.91	0.51
1:G:274:PRO:O	1:G:402:SER:N	2.43	0.51
3:I:428:LEU:HD22	3:I:516:GLU:HG2	1.92	0.51
2:K:123:THR:HG22	2:K:143:LEU:HD13	1.93	0.51
1:G:305:TYR:O	1:G:308:ILE:HG13	2.10	0.51
2:H:160:SER:OG	2:H:165:ASP:OD2	2.28	0.51
3:I:144:ARG:HG2	3:I:217:PHE:HB2	1.92	0.51
3:I:452:GLU:CD	3:I:477:GLY:H	2.18	0.51
1:J:75:ARG:NH1	1:J:111:ASP:OD2	2.43	0.51
1:J:76:PHE:HE1	1:J:118:ILE:HD12	1.75	0.51
1:J:439:ALA:HB2	2:K:541:PRO:HB2	1.91	0.51
2:K:685:ASP:N	2:K:685:ASP:OD1	2.41	0.51
3:L:408:ASP:HB3	3:L:412:LYS:NZ	2.26	0.51
3:L:446:PHE:HB3	3:L:465:PRO:HB3	1.91	0.51
4:O:95:TYR:HA	4:O:115:LEU:HD21	1.93	0.51
3:C:332:ARG:HA	3:C:363:PHE:HD1	1.74	0.51
3:F:296:ASP:HA	3:F:299:ARG:HD2	1.93	0.51
3:F:754:ILE:HG23	3:F:755:ARG:HG2	1.92	0.51
2:H:125:GLY:HA3	2:H:249:ARG:HH21	1.75	0.51
1:J:655:LEU:HD22	1:J:699:TRP:HD1	1.75	0.51
2:B:313:GLN:HB3	2:B:318:PHE:CE2	2.45	0.51
2:E:374:ALA:O	2:E:393:ARG:NH2	2.39	0.51
1:G:596:ILE:O	1:G:600:SER:OG	2.20	0.51
2:K:303:THR:HG21	2:K:491:GLU:HB3	1.93	0.51
2:K:743:ILE:HG12	3:L:4:ILE:HG21	1.92	0.51
1:A:33:ASN:ND2	1:A:202:GLU:OE2	2.43	0.51
1:A:592:ILE:O	1:A:596:ILE:HG13	2.09	0.51
2:B:608:GLU:OE2	2:B:612:LYS:NZ	2.39	0.51
3:C:357:HIS:ND1	3:C:406:GLN:OE1	2.44	0.51
3:C:371:THR:HG21	3:C:487:GLU:HG3	1.92	0.51
1:D:597:GLU:O	1:D:601:SER:N	2.44	0.51
2:E:625:CYS:HB2	3:F:111:TYR:CZ	2.46	0.51
3:F:155:SER:HB3	3:F:300:GLN:HB3	1.92	0.51
3:L:55:TYR:CD1	3:L:92:SER:HB2	2.46	0.51
3:L:297:ILE:O	3:L:301:ASN:N	2.42	0.51
1:A:179:ARG:HG2	1:A:188:TRP:CZ3	2.46	0.51
2:B:310:ASN:HD21	2:B:409:MET:HA	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:362:GLU:HG3	3:C:375:ARG:HG2	1.93	0.51
2:E:407:MET:HE1	2:E:411:MET:HB2	1.93	0.51
2:E:457:GLU:OE1	2:E:457:GLU:N	2.43	0.51
2:E:579:LEU:HG	3:F:101:ARG:HG3	1.93	0.51
3:F:101:ARG:NE	3:F:102:ASN:OD1	2.24	0.51
1:G:78:ILE:HA	1:G:109:LEU:HD12	1.93	0.51
2:H:600:ASN:O	2:H:604:LEU:HG	2.11	0.51
1:J:34:LYS:HD2	1:J:200:THR:HB	1.93	0.51
4:P:115:LEU:HD13	4:P:116:GLY:N	2.26	0.51
3:C:499:ASP:OD2	3:C:505:ARG:NH2	2.44	0.51
1:D:443:ARG:HG3	1:D:444:ASN:N	2.26	0.51
1:G:674:ASP:OD2	2:H:498:ARG:NH2	2.40	0.51
1:J:549:LEU:HD23	1:J:549:LEU:H	1.76	0.51
3:L:730:ASP:OD1	3:L:730:ASP:N	2.37	0.51
3:C:471:THR:OG1	3:C:472:GLU:OE1	2.24	0.50
2:H:110:THR:O	2:H:114:VAL:HG13	2.11	0.50
2:H:519:GLU:HB2	2:H:662:THR:HG22	1.92	0.50
3:I:564:TRP:O	3:I:604:ARG:NH2	2.36	0.50
1:A:292:ILE:HD11	1:A:310:CYS:SG	2.50	0.50
2:E:318:PHE:HA	2:E:321:MET:HG2	1.92	0.50
3:F:449:TRP:HE1	3:F:476:ARG:HB3	1.77	0.50
1:G:554:ILE:HA	4:M:43:LYS:HD3	1.94	0.50
2:K:252:VAL:HG23	2:K:412:PHE:CE1	2.46	0.50
3:L:283:MET:O	3:L:287:THR:OG1	2.24	0.50
3:L:460:MET:HE1	3:L:481:SER:HB2	1.93	0.50
4:N:51:VAL:HB	4:N:70:ILE:HD13	1.93	0.50
4:O:6:GLU:HG3	4:O:117:GLN:H	1.76	0.50
1:D:587:GLN:HG2	1:D:591:GLN:NE2	2.26	0.50
2:E:589:LEU:HA	2:E:620:TYR:CE2	2.46	0.50
3:I:57:ILE:O	3:I:91:VAL:N	2.43	0.50
1:J:431:ASP:HB3	1:J:437:TYR:CE1	2.47	0.50
1:J:597:GLU:O	1:J:601:SER:N	2.43	0.50
2:K:378:LEU:HD11	2:K:389:ILE:HG21	1.94	0.50
1:D:351:GLU:O	1:D:352:GLU:HG2	2.12	0.50
3:I:377:ALA:HB3	3:I:380:ARG:HB3	1.93	0.50
1:J:116:ARG:NH1	1:J:162:THR:OG1	2.44	0.50
2:K:558:THR:HG23	3:L:48:LYS:HG2	1.93	0.50
3:L:571:LEU:HD21	3:L:619:LEU:HD21	1.92	0.50
3:L:591:GLN:OE1	3:L:591:GLN:N	2.39	0.50
4:M:37:VAL:HG22	4:M:47:TRP:HA	1.93	0.50
1:A:589:LEU:O	1:A:593:GLU:N	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:95:LEU:HA	2:B:425:ASN:HD21	1.76	0.50
2:B:311:GLU:OE1	2:B:311:GLU:N	2.44	0.50
2:B:693:CYS:SG	3:C:31:ILE:HG23	2.51	0.50
1:D:125:ARG:HH11	1:D:195:GLU:HG2	1.77	0.50
1:D:433:ALA:HA	1:D:437:TYR:CE2	2.47	0.50
2:H:589:LEU:HA	2:H:620:TYR:HE2	1.77	0.50
2:H:708:PRO:HB3	3:I:728:GLN:HG3	1.94	0.50
2:K:311:GLU:N	2:K:311:GLU:OE1	2.45	0.50
3:L:254:ASP:HA	3:L:257:GLN:HG2	1.93	0.50
4:N:17:SER:HA	4:N:83:MET:O	2.11	0.50
1:A:24:TYR:OH	1:A:84:ARG:NH1	2.45	0.50
3:I:611:ASP:OD1	3:I:611:ASP:N	2.45	0.50
1:J:84:ARG:HE	1:J:88:TRP:HE1	1.58	0.50
1:J:596:ILE:O	1:J:600:SER:OG	2.26	0.50
2:K:428:GLN:HE21	2:K:431:TYR:HE2	1.58	0.50
1:A:217:GLN:HE22	2:B:58:ASN:HA	1.77	0.50
1:A:672:LEU:HD12	1:A:716:ARG:HH21	1.77	0.50
2:B:171:MET:HE2	2:B:171:MET:HA	1.93	0.50
1:D:111:ASP:OD1	1:D:113:LYS:N	2.45	0.50
2:E:104:GLU:OE1	2:E:104:GLU:N	2.44	0.50
3:F:488:TYR:CE1	3:F:490:SER:HB2	2.46	0.50
3:F:527:LEU:HD23	3:F:527:LEU:H	1.77	0.50
1:G:612:PHE:HA	1:G:633:ILE:HD13	1.93	0.50
2:H:575:GLU:OE2	3:I:101:ARG:NH1	2.45	0.50
1:J:207:ILE:HG22	1:J:212:ARG:HB2	1.93	0.50
2:K:396:LEU:HA	2:K:401:ALA:HA	1.94	0.50
2:B:625:CYS:HB3	3:C:111:TYR:CZ	2.46	0.50
3:C:365:MET:HE1	3:C:401:ALA:HB2	1.93	0.50
3:C:611:ASP:OD1	3:C:611:ASP:N	2.45	0.50
2:H:59:THR:OG1	2:H:60:GLU:OE1	2.29	0.50
2:H:519:GLU:HG2	2:H:559:TYR:CE2	2.46	0.50
3:I:430:PRO:O	3:I:434:LEU:HG	2.11	0.50
3:I:730:ASP:OD1	3:I:730:ASP:N	2.42	0.50
1:D:252:GLU:O	1:D:254:ASN:ND2	2.45	0.50
2:E:122:LEU:HD11	2:E:249:ARG:HB3	1.93	0.50
2:E:514:VAL:HG21	2:E:559:TYR:HE1	1.77	0.50
3:F:498:ILE:HD11	3:F:502:LEU:HA	1.94	0.50
3:F:586:LYS:HG2	3:F:589:ARG:NH2	2.27	0.50
1:J:444:ASN:OD1	1:J:445:TYR:N	2.44	0.50
1:J:624:SER:HB3	2:K:1:MET:HA	1.93	0.50
1:J:624:SER:OG	1:J:625:PRO:HD3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:681:PHE:CZ	2:B:484:ILE:HD11	2.47	0.49
3:C:51:MET:HE1	3:C:93:PRO:HG3	1.93	0.49
1:D:592:ILE:O	1:D:596:ILE:HG13	2.12	0.49
3:F:471:THR:OG1	3:F:472:GLU:OE1	2.23	0.49
1:G:154:GLU:OE2	1:G:168:ARG:NH1	2.45	0.49
2:K:136:ASN:OD1	2:K:225:ASN:ND2	2.45	0.49
4:N:98:LYS:O	4:N:111:ASP:OD1	2.30	0.49
1:A:280:SER:HB3	1:A:650:TYR:CZ	2.47	0.49
1:A:435:ILE:HD11	3:C:242:GLN:HB2	1.93	0.49
1:D:420:SER:HB3	1:D:489:CYS:HB2	1.94	0.49
3:I:559:THR:O	3:I:563:GLN:HB2	2.11	0.49
2:K:378:LEU:HD23	2:K:386:ARG:HG3	1.94	0.49
3:L:408:ASP:O	3:L:412:LYS:HG2	2.12	0.49
4:N:35:THR:HG22	4:N:50:MET:HG2	1.94	0.49
4:P:62:ASP:HA	4:P:65:LYS:HE2	1.92	0.49
1:A:420:SER:HB2	1:A:422:TRP:NE1	2.27	0.49
3:C:141:ILE:HB	3:C:220:VAL:O	2.13	0.49
1:D:82:ARG:NH1	3:F:753:ARG:O	2.36	0.49
1:D:283:LEU:O	1:D:461:LYS:NZ	2.45	0.49
2:E:225:ASN:HD21	2:E:350:ARG:HH21	1.60	0.49
1:G:630:ASP:OD1	1:G:630:ASP:N	2.45	0.49
2:H:598:LEU:HD23	2:H:598:LEU:H	1.78	0.49
3:I:377:ALA:N	3:I:380:ARG:O	2.40	0.49
2:K:310:ASN:HD21	2:K:409:MET:HA	1.77	0.49
2:B:110:THR:O	2:B:114:VAL:HG13	2.12	0.49
1:D:523:MET:HG2	1:D:565:VAL:HG22	1.93	0.49
1:D:549:LEU:HD23	1:D:549:LEU:H	1.76	0.49
3:F:320:SER:HA	3:F:492:GLU:O	2.11	0.49
2:H:492:PHE:O	2:H:495:PHE:HB2	2.13	0.49
3:I:748:GLN:OE1	3:I:748:GLN:N	2.45	0.49
2:K:569:GLN:HG3	2:K:573:SER:HB2	1.94	0.49
2:B:591:VAL:HG23	2:B:612:LYS:HZ1	1.76	0.49
1:D:52:HIS:O	1:D:75:ARG:HB3	2.13	0.49
2:E:598:LEU:HD23	2:E:598:LEU:H	1.76	0.49
3:F:325:PHE:CZ	3:F:431:MET:HB3	2.47	0.49
3:L:6:GLU:HA	3:L:9:ASN:OD1	2.13	0.49
3:L:430:PRO:O	3:L:434:LEU:HG	2.12	0.49
4:P:52:SER:HB3	4:P:57:ASP:HB3	1.94	0.49
1:A:318:LYS:H	1:A:546:GLY:HA2	1.78	0.49
1:A:362:LYS:HA	1:A:480:PHE:HE2	1.77	0.49
1:A:624:SER:OG	1:A:625:PRO:HD3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:624:SER:OG	1:D:625:PRO:HD3	2.13	0.49
3:F:332:ARG:HA	3:F:363:PHE:HD1	1.78	0.49
1:G:7:GLN:OE1	1:G:185:ARG:NH2	2.46	0.49
2:H:666:TRP:H	2:H:666:TRP:HE3	1.59	0.49
1:J:430:GLU:O	2:K:600:ASN:ND2	2.44	0.49
2:K:313:GLN:HB3	2:K:318:PHE:HE2	1.77	0.49
1:A:209:GLY:C	1:A:211:MET:H	2.20	0.49
2:B:122:LEU:HD11	2:B:249:ARG:HB3	1.95	0.49
3:C:449:TRP:NE1	3:C:476:ARG:HB3	2.28	0.49
1:D:469:LEU:HA	1:D:483:ILE:HD13	1.94	0.49
3:F:664:ARG:NE	3:F:671:ASP:OD1	2.36	0.49
2:H:52:LYS:HG2	2:H:82:TYR:CZ	2.47	0.49
2:H:691:LYS:NZ	3:I:6:GLU:OE2	2.44	0.49
3:I:503:ARG:HH12	3:I:505:ARG:HH22	1.60	0.49
3:C:694:PHE:CB	3:C:734:VAL:HG13	2.43	0.49
1:D:305:TYR:O	1:D:308:ILE:HG13	2.13	0.49
2:E:110:THR:O	2:E:114:VAL:HG13	2.13	0.49
2:E:491:GLU:HG2	2:E:492:PHE:N	2.27	0.49
3:F:365:MET:HE1	3:F:401:ALA:HB2	1.93	0.49
3:F:398:ILE:HD11	3:F:478:ILE:HD11	1.95	0.49
2:K:516:GLY:N	2:K:522:ASP:OD1	2.46	0.49
3:C:151:HIS:HB3	3:C:210:GLU:O	2.13	0.49
3:C:395:ALA:O	3:C:398:ILE:HG22	2.13	0.49
1:D:630:ASP:N	1:D:630:ASP:OD1	2.44	0.49
2:E:591:VAL:HG23	2:E:612:LYS:HZ1	1.77	0.49
3:F:134:HIS:CE1	3:F:241:GLU:HB3	2.47	0.49
1:G:213:ARG:HD3	2:H:60:GLU:CD	2.38	0.49
4:O:32:TYR:CG	4:O:98:LYS:HE3	2.47	0.49
1:A:130:TYR:HE1	1:A:197:GLY:HA2	1.78	0.49
1:A:168:ARG:O	1:A:172:LYS:HG3	2.13	0.49
1:A:426:ASP:OD1	2:B:553:LYS:HB2	2.13	0.49
2:B:225:ASN:ND2	2:B:350:ARG:HD3	2.28	0.49
3:C:430:PRO:O	3:C:434:LEU:HG	2.12	0.49
3:C:456:ASN:HB2	3:C:471:THR:O	2.13	0.49
1:D:427:GLU:OE1	2:E:556:ARG:NH2	2.41	0.49
1:G:324:LYS:HD2	1:G:325:PRO:HD2	1.95	0.49
2:H:396:LEU:HA	2:H:401:ALA:HA	1.94	0.49
2:K:693:CYS:SG	3:L:31:ILE:HG23	2.53	0.49
3:L:387:SER:HB3	3:L:485:VAL:HG23	1.94	0.49
2:B:598:LEU:HD23	2:B:598:LEU:H	1.78	0.48
2:B:612:LYS:O	2:B:616:MET:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:548:MET:O	1:D:558:SER:HA	2.13	0.48
1:D:576:LYS:HA	1:D:579:MET:HG2	1.94	0.48
3:F:359:GLY:H	3:F:378:THR:HB	1.78	0.48
1:G:543:LEU:HD12	1:G:563:LEU:HD23	1.95	0.48
1:J:440:SER:OG	4:P:54:ASN:OD1	2.20	0.48
3:L:544:SER:O	3:L:548:ASN:ND2	2.46	0.48
4:O:115:LEU:HD22	4:O:116:GLY:N	2.26	0.48
1:G:551:ARG:NH2	4:M:46:GLU:OE1	2.45	0.48
3:L:151:HIS:H	3:L:252:ASN:HD21	1.59	0.48
3:L:365:MET:HE1	3:L:401:ALA:HB2	1.95	0.48
2:B:316:ARG:NH2	2:B:345:SER:OG	2.47	0.48
2:E:307:THR:N	2:E:478:SER:HB2	2.28	0.48
1:J:137:LYS:HB3	1:J:138:ILE:HD12	1.94	0.48
1:J:520:PHE:CE1	1:J:568:ASN:HB3	2.48	0.48
1:A:180:GLN:NE2	3:C:174:ALA:H	2.10	0.48
2:B:120:ASP:HB3	3:C:33:LYS:HD2	1.95	0.48
2:B:222:LEU:HB3	2:B:347:LYS:HA	1.95	0.48
3:C:146:ASP:HA	3:C:215:THR:HA	1.94	0.48
2:E:693:CYS:SG	3:F:31:ILE:HG23	2.54	0.48
2:E:697:GLU:OE2	3:F:32:LYS:NZ	2.39	0.48
2:H:252:VAL:HG23	2:H:412:PHE:CE1	2.48	0.48
1:J:408:GLN:HG3	1:J:412:ASN:HD21	1.78	0.48
2:K:143:LEU:HA	2:K:246:MET:HE2	1.96	0.48
4:P:6:GLU:N	4:P:6:GLU:OE2	2.47	0.48
3:C:6:GLU:HA	3:C:9:ASN:OD1	2.13	0.48
1:D:111:ASP:OD1	1:D:112:TYR:N	2.46	0.48
2:E:704:SER:HB2	3:F:201:LEU:HD21	1.95	0.48
3:F:254:ASP:HA	3:F:257:GLN:HG2	1.96	0.48
2:H:268:GLN:HB2	2:H:421:VAL:HG13	1.95	0.48
2:H:389:ILE:HA	2:H:392:ILE:HG22	1.94	0.48
2:H:693:CYS:SG	3:I:31:ILE:HG23	2.53	0.48
3:I:398:ILE:HD11	3:I:478:ILE:CD1	2.43	0.48
3:I:450:GLY:O	3:I:476:ARG:N	2.47	0.48
2:K:491:GLU:HG2	2:K:492:PHE:N	2.27	0.48
2:B:260:ARG:HE	2:B:414:MET:HE1	1.77	0.48
2:B:302:ILE:O	2:B:302:ILE:HG13	2.13	0.48
1:J:432:VAL:HG23	1:J:433:ALA:H	1.77	0.48
3:L:517:GLU:N	3:L:517:GLU:OE2	2.45	0.48
1:A:205:PHE:H	2:B:332:TRP:HB2	1.79	0.48
2:B:507:MET:HE1	2:B:539:LEU:HB3	1.95	0.48
3:F:362:GLU:HG3	3:F:375:ARG:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:415:ARG:HG3	3:F:444:VAL:HG11	1.95	0.48
2:H:276:ASN:O	2:H:279:LYS:HB2	2.14	0.48
2:H:310:ASN:HD21	2:H:408:MET:HA	1.77	0.48
3:I:39:GLN:H	3:I:39:GLN:CD	2.22	0.48
3:I:111:TYR:O	3:I:113:LYS:N	2.42	0.48
2:K:531:LYS:O	2:K:535:ILE:HG12	2.13	0.48
3:L:701:ASP:OD2	3:L:703:ARG:HB2	2.14	0.48
3:I:332:ARG:HA	3:I:363:PHE:HD1	1.77	0.48
3:L:189:LYS:O	3:L:193:LEU:HG	2.14	0.48
1:A:407:ILE:HG23	1:A:702:LEU:HD22	1.96	0.48
1:A:422:TRP:CE2	1:A:457:GLU:HB2	2.49	0.48
2:B:266:LEU:HD13	2:B:421:VAL:HG11	1.96	0.48
3:C:28:MET:HG3	3:C:29:ALA:N	2.28	0.48
2:E:588:GLY:HA2	2:E:612:LYS:HB3	1.94	0.48
2:H:63:ALA:HB1	2:H:402:SER:HB3	1.96	0.48
1:J:434:PRO:O	1:J:437:TYR:HB2	2.14	0.48
4:P:91:SER:OG	4:P:120:VAL:HG13	2.14	0.48
3:C:567:ASN:O	3:C:567:ASN:ND2	2.42	0.48
2:E:160:SER:OG	2:E:165:ASP:OD2	2.22	0.48
3:F:141:ILE:HB	3:F:220:VAL:O	2.13	0.48
1:G:624:SER:OG	1:G:625:PRO:HD3	2.14	0.48
3:I:6:GLU:HA	3:I:9:ASN:OD1	2.13	0.48
3:I:398:ILE:HD12	3:I:398:ILE:HA	1.61	0.48
1:J:34:LYS:HB2	1:J:200:THR:HA	1.96	0.48
2:K:285:VAL:HG21	2:K:441:LEU:HD11	1.96	0.48
3:L:750:ALA:O	3:L:754:ILE:N	2.32	0.48
1:A:54:ILE:HD11	1:A:75:ARG:HD3	1.96	0.47
2:B:457:GLU:OE1	2:B:457:GLU:N	2.46	0.47
1:D:130:TYR:HB3	1:D:147:ILE:HD13	1.95	0.47
2:E:622:GLY:HA3	3:F:105:MET:SD	2.53	0.47
3:F:506:ASP:OD1	3:F:507:GLN:N	2.46	0.47
1:G:432:VAL:HG11	2:H:602:ARG:HD3	1.95	0.47
3:I:268:ARG:NH1	3:I:521:THR:OG1	2.47	0.47
3:I:452:GLU:OE2	3:I:479:ARG:NH1	2.28	0.47
3:I:626:PRO:HG2	1:J:57:GLN:HG3	1.95	0.47
2:K:738:GLU:OE1	2:K:738:GLU:N	2.47	0.47
3:L:141:ILE:HD13	3:L:221:ALA:HA	1.96	0.47
3:L:230:GLU:HG3	3:L:231:VAL:HG13	1.95	0.47
3:L:421:VAL:HG12	3:L:425:ASN:HA	1.95	0.47
2:E:504:ASN:HA	2:E:507:MET:HB2	1.96	0.47
3:F:347:GLY:H	3:F:414:VAL:HB	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:12:VAL:HG22	4:M:13:GLN:H	1.79	0.47
1:A:678:PRO:HA	2:B:485:ASN:HA	1.95	0.47
2:E:555:TYR:OH	2:E:592:SER:HB3	2.13	0.47
1:G:681:PHE:CZ	2:H:484:ILE:HD11	2.50	0.47
2:H:111:MET:HA	2:H:114:VAL:HG22	1.96	0.47
2:H:293:SER:HB2	3:I:452:GLU:HB2	1.95	0.47
2:H:723:ARG:HG2	2:H:744:MET:HE2	1.95	0.47
1:J:252:GLU:O	1:J:254:ASN:ND2	2.47	0.47
2:K:507:MET:HE1	2:K:539:LEU:HB3	1.95	0.47
2:K:519:GLU:HG2	2:K:559:TYR:CE2	2.49	0.47
3:L:111:TYR:O	3:L:113:LYS:N	2.41	0.47
2:B:374:ALA:O	2:B:393:ARG:NH2	2.38	0.47
1:D:528:THR:O	1:D:564:TYR:OH	2.27	0.47
1:D:571:SER:H	1:D:574:LYS:HB2	1.80	0.47
3:I:55:TYR:CD1	3:I:92:SER:HB2	2.48	0.47
1:J:477:MET:HG2	1:J:510:HIS:ND1	2.29	0.47
2:K:287:ARG:O	2:K:291:THR:OG1	2.32	0.47
2:K:605:HIS:HB3	3:L:233:HIS:HE1	1.79	0.47
3:L:710:ILE:HD11	3:L:726:ILE:HA	1.97	0.47
2:H:489:THR:HA	2:H:497:TYR:O	2.15	0.47
2:H:710:GLY:N	3:I:26:ASP:OD1	2.34	0.47
3:I:375:ARG:HD3	3:I:383:GLN:HE21	1.79	0.47
3:I:597:ARG:NH2	3:I:622:ALA:O	2.42	0.47
2:K:77:ASN:ND2	2:K:479:LYS:HD2	2.30	0.47
4:O:94:TYR:H	4:O:118:GLY:HA3	1.78	0.47
2:B:71:GLY:O	2:B:84:GLN:NE2	2.46	0.47
2:B:210:GLN:O	2:B:211:ARG:NE	2.46	0.47
1:D:12:MET:HE2	3:F:751:THR:HG22	1.96	0.47
2:E:119:VAL:HG12	2:E:143:LEU:HD11	1.97	0.47
2:E:129:TYR:OH	2:E:134:ASN:OD1	2.25	0.47
2:E:623:ARG:NE	3:F:102:ASN:HA	2.29	0.47
3:F:237:GLY:HA3	3:F:240:TRP:CE2	2.49	0.47
3:L:408:ASP:HB3	3:L:412:LYS:HZ1	1.79	0.47
3:L:534:SER:CB	3:L:576:GLU:HA	2.39	0.47
4:O:95:TYR:CD1	4:O:115:LEU:HD21	2.50	0.47
1:A:154:GLU:OE2	1:A:168:ARG:NH1	2.48	0.47
1:A:283:LEU:HD12	1:A:524:GLU:HB2	1.97	0.47
2:B:59:THR:OG1	2:B:60:GLU:OE1	2.19	0.47
2:B:285:VAL:O	2:B:289:MET:HG2	2.14	0.47
2:B:492:PHE:O	2:B:495:PHE:HB2	2.14	0.47
2:B:558:THR:HG23	3:C:48:LYS:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:263:THR:HG23	1:D:716:ARG:HH11	1.80	0.47
1:D:305:TYR:O	1:D:309:LYS:HG2	2.15	0.47
2:E:374:ALA:HA	2:E:393:ARG:HE	1.79	0.47
1:G:76:PHE:HE1	1:G:118:ILE:HD12	1.79	0.47
2:K:738:GLU:H	2:K:738:GLU:CD	2.20	0.47
4:M:67:ARG:NH1	4:M:90:ASP:OD2	2.38	0.47
4:O:100:ARG:NH2	4:O:110:THR:OG1	2.47	0.47
3:C:508:ARG:HH12	3:C:510:ASN:CG	2.23	0.47
3:F:665:LEU:HB3	3:F:672:ALA:O	2.14	0.47
1:G:55:ASN:HA	1:G:71:LEU:HD11	1.97	0.47
3:I:269:ARG:HG2	3:I:536:MET:HB3	1.96	0.47
1:J:560:PRO:HB2	1:J:562:PHE:CE1	2.50	0.47
2:B:182:THR:C	2:B:209:LYS:HD2	2.40	0.47
2:E:575:GLU:OE2	3:F:101:ARG:NH1	2.48	0.47
3:F:331:LYS:HE2	3:F:490:SER:N	2.28	0.47
3:F:384:LEU:HB3	3:F:478:ILE:HD12	1.97	0.47
2:H:50:SER:HA	2:H:82:TYR:CE1	2.50	0.47
2:H:612:LYS:O	2:H:616:MET:HG3	2.15	0.47
3:I:79:SER:HB3	3:I:90:MET:HB2	1.96	0.47
1:J:587:GLN:HG2	1:J:591:GLN:NE2	2.30	0.47
2:K:746:ILE:HG23	3:L:8:ARG:HD2	1.97	0.47
3:L:398:ILE:HD12	3:L:398:ILE:HA	1.77	0.47
4:N:50:MET:SD	4:N:109:PRO:HB3	2.55	0.47
4:N:52:SER:HB3	4:N:104:ILE:HD11	1.97	0.47
1:A:144:HIS:CE1	1:A:160:ASP:HB3	2.49	0.47
1:A:422:TRP:CZ3	1:A:489:CYS:HB3	2.50	0.47
2:B:285:VAL:HA	2:B:288:LYS:HB2	1.96	0.47
3:C:79:SER:OG	3:C:80:LYS:N	2.48	0.47
3:C:120:GLU:HB3	3:C:124:ARG:NH2	2.29	0.47
2:E:276:ASN:HB2	3:F:219:PRO:HG3	1.96	0.47
2:E:339:ILE:O	2:E:343:MET:HG3	2.15	0.47
2:H:712:SER:OG	2:H:716:GLU:OE1	2.22	0.47
1:J:254:ASN:OD1	1:J:256:LYS:HB2	2.14	0.47
1:J:425:LEU:HD22	1:J:447:THR:HG21	1.96	0.47
2:K:665:SER:OG	3:L:58:THR:O	2.15	0.47
3:L:506:ASP:OD1	3:L:507:GLN:N	2.45	0.47
2:B:531:LYS:O	2:B:535:ILE:HG12	2.16	0.46
1:D:590:GLN:HG3	1:D:591:GLN:N	2.30	0.46
2:E:708:PRO:HA	3:F:728:GLN:HE21	1.80	0.46
3:F:580:PHE:CE2	3:F:620:PRO:HB2	2.50	0.46
1:G:571:SER:H	1:G:574:LYS:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:519:GLU:HG2	2:H:559:TYR:HE2	1.80	0.46
3:I:530:THR:OG1	3:I:531:TYR:N	2.46	0.46
3:I:591:GLN:OE1	3:I:591:GLN:N	2.39	0.46
1:J:148:PHE:CE1	1:J:154:GLU:HG3	2.49	0.46
1:J:484:PRO:HA	1:J:503:PHE:HD1	1.80	0.46
3:C:42:ASN:HB3	3:C:45:LEU:HB2	1.97	0.46
3:C:371:THR:HG21	3:C:487:GLU:CG	2.45	0.46
2:H:559:TYR:CZ	3:I:47:MET:HE2	2.51	0.46
2:H:631:PHE:CE2	3:I:96:VAL:HG22	2.50	0.46
1:J:677:GLU:HG3	2:K:300:PHE:HZ	1.80	0.46
2:K:746:ILE:O	2:K:750:ILE:HG13	2.16	0.46
3:C:403:VAL:HG21	3:C:435:LEU:HA	1.96	0.46
3:C:694:PHE:HB3	3:C:734:VAL:HG13	1.97	0.46
1:D:68:PRO:HB3	1:D:71:LEU:O	2.15	0.46
1:D:283:LEU:HD12	1:D:524:GLU:HB2	1.97	0.46
1:G:646:PHE:O	1:G:650:TYR:HB2	2.15	0.46
2:K:407:MET:HE1	2:K:412:PHE:HB2	1.97	0.46
2:B:309:TRP:CZ2	2:B:416:SER:HB3	2.47	0.46
2:B:507:MET:CE	2:B:539:LEU:HB3	2.46	0.46
2:B:660:VAL:O	2:B:663:THR:OG1	2.23	0.46
3:C:478:ILE:HD12	3:C:478:ILE:HA	1.74	0.46
2:E:256:GLU:OE1	2:E:414:MET:HB2	2.15	0.46
3:F:395:ALA:O	3:F:398:ILE:HG22	2.15	0.46
1:G:111:ASP:OD1	1:G:113:LYS:N	2.49	0.46
1:G:470:LEU:HG	3:I:49:TRP:HZ2	1.80	0.46
2:H:108:LEU:O	2:H:111:MET:HG2	2.15	0.46
3:I:557:TRP:CZ3	3:I:616:ILE:HD11	2.51	0.46
3:L:611:ASP:OD1	3:L:611:ASP:N	2.46	0.46
2:B:163:LEU:O	2:B:167:LEU:HG	2.16	0.46
2:B:504:ASN:HA	2:B:507:MET:HB2	1.98	0.46
3:C:101:ARG:NE	3:C:102:ASN:OD1	2.30	0.46
3:C:517:GLU:OE1	3:C:517:GLU:N	2.49	0.46
3:I:159:ALA:O	3:I:163:ILE:HG12	2.16	0.46
3:I:753:ARG:HD2	3:I:753:ARG:HA	1.70	0.46
1:J:111:ASP:OD1	1:J:112:TYR:N	2.49	0.46
3:L:323:PHE:HB3	3:L:330:PHE:HB2	1.96	0.46
3:C:318:ARG:HB3	3:C:493:ARG:HB3	1.97	0.46
3:F:164:MET:SD	3:F:168:PHE:HE1	2.38	0.46
3:F:562:ILE:HD12	3:F:563:GLN:N	2.31	0.46
1:G:624:SER:HB3	2:H:2:ASP:H	1.80	0.46
2:H:25:THR:O	2:H:508:GLU:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:231:VAL:HG21	3:I:244:TYR:HE2	1.81	0.46
3:I:449:TRP:CD1	3:I:476:ARG:HB3	2.50	0.46
1:J:545:ILE:HD12	1:J:545:ILE:HA	1.82	0.46
4:N:99:ARG:HH12	4:N:104:ILE:HA	1.80	0.46
2:B:712:SER:OG	3:C:730:ASP:HB3	2.16	0.46
3:C:124:ARG:NH2	3:C:149:PRO:HB2	2.31	0.46
3:C:461:ILE:HG13	3:C:480:VAL:HB	1.98	0.46
1:D:178:ILE:O	1:D:182:MET:HG2	2.15	0.46
1:D:413:LYS:NZ	1:D:454:ARG:HH21	2.14	0.46
3:F:39:GLN:H	3:F:39:GLN:CD	2.23	0.46
2:H:309:TRP:CZ2	2:H:416:SER:HB3	2.46	0.46
2:H:713:SER:HA	3:I:24:THR:HA	1.97	0.46
2:K:736:LYS:HB2	2:K:738:GLU:HG2	1.96	0.46
3:L:55:TYR:O	3:L:90:MET:HB3	2.16	0.46
3:L:163:ILE:O	3:L:167:VAL:HG12	2.15	0.46
4:N:18:LEU:HD12	4:N:18:LEU:HA	1.84	0.46
4:O:35:THR:HG22	4:O:50:MET:HG2	1.98	0.46
3:C:318:ARG:NH1	3:C:493:ARG:O	2.48	0.46
2:E:248:ILE:HG21	2:E:344:PHE:CE1	2.51	0.46
2:E:522:ASP:OD2	2:E:559:TYR:OH	2.34	0.46
1:G:440:SER:HA	1:G:443:ARG:HG2	1.98	0.46
3:I:295:VAL:HG12	3:I:315:MET:HE1	1.96	0.46
1:J:220:PRO:HG2	1:J:223:PHE:HE2	1.80	0.46
2:B:104:GLU:OE1	2:B:104:GLU:N	2.49	0.46
3:C:264:ARG:NH1	3:C:521:THR:O	2.49	0.46
3:C:297:ILE:O	3:C:301:ASN:N	2.49	0.46
1:D:179:ARG:HG2	1:D:188:TRP:CZ3	2.51	0.46
1:D:324:LYS:HB3	1:D:542:VAL:HG23	1.98	0.46
1:D:442:ARG:HE	1:D:608:THR:HG23	1.81	0.46
1:G:57:GLN:HG2	3:L:601:GLN:OE1	2.15	0.46
1:G:520:PHE:CE1	1:G:568:ASN:HB3	2.51	0.46
2:H:449:LEU:HD22	2:H:466:PHE:CD2	2.51	0.46
3:I:283:MET:O	3:I:287:THR:OG1	2.32	0.46
1:J:423:ILE:HG12	1:J:451:SER:HB2	1.98	0.46
1:J:578:GLY:HA2	1:J:581:MET:HG3	1.98	0.46
3:L:544:SER:OG	3:L:548:ASN:ND2	2.49	0.46
1:A:673:ARG:HG2	1:A:716:ARG:HH22	1.81	0.46
2:E:260:ARG:HA	2:E:414:MET:CE	2.46	0.46
2:E:684:GLU:CD	2:E:685:ASP:H	2.24	0.46
3:F:159:ALA:O	3:F:163:ILE:HG12	2.16	0.46
1:J:607:MET:HG2	1:J:610:GLU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:696:PHE:HZ	3:L:25:VAL:HG13	1.80	0.46
4:M:52:SER:HA	4:M:104:ILE:HD11	1.98	0.46
1:A:111:ASP:OD1	1:A:112:TYR:N	2.49	0.45
1:A:242:ILE:HG12	2:B:90:GLU:OE2	2.16	0.45
2:B:397:ILE:O	2:B:400:THR:OG1	2.30	0.45
3:F:515:PRO:O	3:F:516:GLU:HB2	2.16	0.45
1:G:96:ASN:HD21	3:L:275:ASP:CB	2.23	0.45
2:H:519:GLU:CB	2:H:662:THR:HG22	2.46	0.45
3:I:478:ILE:HD12	3:I:478:ILE:HA	1.69	0.45
2:K:125:GLY:HA3	2:K:249:ARG:HH21	1.80	0.45
2:K:413:ASN:HB3	2:K:444:SER:OG	2.16	0.45
3:L:386:VAL:HG21	3:L:398:ILE:HD13	1.97	0.45
3:C:111:TYR:O	3:C:113:LYS:N	2.43	0.45
1:D:221:PRO:HD3	2:E:69:ILE:CG2	2.43	0.45
1:D:444:ASN:OD1	1:D:445:TYR:N	2.49	0.45
1:D:617:GLU:HB3	1:D:619:TRP:CZ3	2.51	0.45
2:E:114:VAL:HG12	2:E:254:PHE:CE1	2.51	0.45
1:G:576:LYS:NZ	3:I:42:ASN:OD1	2.38	0.45
2:H:491:GLU:HG2	2:H:492:PHE:N	2.30	0.45
3:I:46:ARG:O	3:I:50:MET:HG3	2.16	0.45
3:I:362:GLU:HG3	3:I:375:ARG:HG2	1.98	0.45
1:A:429:GLY:HA2	2:B:598:LEU:HA	1.99	0.45
2:B:177:GLU:HA	2:B:214:LYS:HB2	1.97	0.45
1:D:170:ARG:HA	3:F:695:LEU:HD22	1.99	0.45
2:E:95:LEU:HD12	2:E:422:SER:CB	2.46	0.45
2:H:703:SER:HB2	3:I:28:MET:SD	2.56	0.45
2:K:219:ILE:HG23	2:K:348:MET:HG3	1.98	0.45
3:L:70:ARG:NH1	3:L:74:GLY:O	2.50	0.45
3:L:449:TRP:HE1	3:L:476:ARG:HB3	1.81	0.45
4:N:36:TRP:CZ3	4:N:96:CYS:HB2	2.51	0.45
4:O:60:TYR:HB3	4:O:64:VAL:HG23	1.98	0.45
1:A:261:LEU:O	1:A:265:PRO:HD3	2.17	0.45
1:A:324:LYS:HD2	1:A:325:PRO:HD2	1.99	0.45
2:B:470:CYS:HB3	2:B:475:ILE:O	2.16	0.45
1:D:34:LYS:HB2	1:D:200:THR:HA	1.97	0.45
1:D:209:GLY:C	1:D:211:MET:H	2.24	0.45
2:E:222:LEU:HB3	2:E:347:LYS:HA	1.98	0.45
2:E:600:ASN:O	2:E:604:LEU:HG	2.17	0.45
3:F:497:SER:OG	3:F:505:ARG:O	2.30	0.45
2:H:78:GLU:O	2:H:471:LYS:NZ	2.50	0.45
2:K:457:GLU:N	2:K:457:GLU:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:640:VAL:CG2	3:L:645:MET:HG3	2.46	0.45
1:A:422:TRP:CE3	1:A:489:CYS:HB3	2.51	0.45
2:B:111:MET:HA	2:B:114:VAL:HG22	1.98	0.45
2:B:276:ASN:O	2:B:279:LYS:HB2	2.17	0.45
2:B:588:GLY:HA3	2:B:616:MET:HA	1.98	0.45
1:D:336:LEU:HD23	1:D:365:GLN:HG2	1.99	0.45
1:D:425:LEU:HD12	1:D:425:LEU:HA	1.82	0.45
2:E:419:LEU:O	2:E:422:SER:OG	2.24	0.45
2:E:622:GLY:O	2:E:626:ASN:ND2	2.50	0.45
3:F:506:ASP:HB2	3:F:512:LEU:HD11	1.99	0.45
1:G:164:ASP:OD1	1:G:165:GLU:N	2.48	0.45
1:G:444:ASN:OD1	1:G:445:TYR:N	2.49	0.45
1:G:457:GLU:OE2	1:G:501:TYR:OH	2.28	0.45
2:H:336:VAL:HG12	2:H:337:LEU:HD23	1.97	0.45
2:H:620:TYR:HE1	3:I:100:ASN:ND2	2.15	0.45
2:K:575:GLU:OE2	3:L:101:ARG:NH1	2.49	0.45
3:L:658:TYR:HB2	3:L:665:LEU:HD13	1.97	0.45
3:L:664:ARG:NH2	3:L:671:ASP:OD2	2.49	0.45
1:A:180:GLN:HE22	3:C:174:ALA:H	1.63	0.45
3:C:346:THR:HG23	3:C:350:GLN:O	2.16	0.45
1:D:462:GLY:O	1:D:466:ASN:ND2	2.39	0.45
1:D:463:VAL:HG11	1:D:582:ARG:NH2	2.31	0.45
1:D:652:SER:O	2:E:24:TYR:OH	2.34	0.45
2:E:356:MET:HA	2:E:367:GLN:HA	1.97	0.45
3:F:260:ILE:O	3:F:264:ARG:HG2	2.17	0.45
3:F:629:SER:HB2	3:F:631:MET:HG2	1.98	0.45
1:G:207:ILE:HG22	1:G:212:ARG:HB2	1.98	0.45
1:G:422:TRP:CE2	1:G:457:GLU:HB2	2.52	0.45
1:G:476:ALA:HB3	1:G:506:LYS:HE2	1.99	0.45
1:J:254:ASN:O	2:K:77:ASN:ND2	2.50	0.45
1:J:587:GLN:C	1:J:591:GLN:HE21	2.21	0.45
2:K:598:LEU:HD23	2:K:598:LEU:H	1.81	0.45
3:L:694:PHE:HB3	3:L:735:MET:O	2.17	0.45
3:L:754:ILE:HD12	3:L:754:ILE:HA	1.77	0.45
1:A:575:MET:O	1:A:579:MET:HG3	2.17	0.45
3:F:311:CYS:O	3:F:315:MET:HG2	2.16	0.45
1:G:318:LYS:H	1:G:546:GLY:HA2	1.81	0.45
1:A:53:PHE:CE2	1:A:63:VAL:HG21	2.52	0.45
1:A:130:TYR:CE1	1:A:197:GLY:HA2	2.52	0.45
2:B:626:ASN:ND2	3:C:104:PRO:O	2.50	0.45
3:C:398:ILE:HD12	3:C:398:ILE:HA	1.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:415:ARG:HG3	3:F:444:VAL:HG21	1.98	0.45
3:F:753:ARG:HD2	3:F:753:ARG:HA	1.74	0.45
1:G:213:ARG:O	1:G:217:GLN:HG3	2.17	0.45
2:K:519:GLU:O	2:K:555:TYR:OH	2.27	0.45
3:L:108:THR:C	3:L:110:HIS:N	2.75	0.45
1:A:314:PHE:HD2	1:A:317:TRP:CZ2	2.35	0.45
2:B:52:LYS:HG3	2:B:72:PRO:HD2	1.99	0.45
2:B:449:LEU:HG	2:B:450:ILE:N	2.32	0.45
3:F:339:LYS:O	3:F:356:VAL:N	2.50	0.45
1:G:283:LEU:O	1:G:461:LYS:NZ	2.49	0.45
1:G:292:ILE:HD11	1:G:310:CYS:SG	2.57	0.45
2:H:316:ARG:NH2	2:H:345:SER:OG	2.50	0.45
2:K:182:THR:C	2:K:209:LYS:HD2	2.41	0.45
3:L:384:LEU:HB3	3:L:478:ILE:HD12	1.98	0.45
3:L:478:ILE:O	3:L:479:ARG:NH1	2.41	0.45
4:O:6:GLU:CG	4:O:117:GLN:H	2.30	0.45
4:O:17:SER:HA	4:O:83:MET:O	2.17	0.45
1:A:318:LYS:NZ	1:A:544:GLU:OE2	2.49	0.45
1:A:444:ASN:OD1	1:A:445:TYR:N	2.49	0.45
3:C:542:PRO:HB2	3:C:640:VAL:HG12	1.98	0.45
1:D:163:LEU:HA	1:D:163:LEU:HD23	1.72	0.45
1:D:622:GLY:HA3	2:E:1:MET:HE1	1.99	0.45
2:E:52:LYS:HG2	2:E:82:TYR:CZ	2.52	0.45
2:E:517:ILE:H	2:E:522:ASP:CG	2.24	0.45
1:G:252:GLU:O	1:G:254:ASN:ND2	2.50	0.45
1:G:311:MET:HE1	1:G:525:PHE:HZ	1.82	0.45
2:H:746:ILE:O	2:H:750:ILE:HG13	2.17	0.45
3:I:365:MET:HE1	3:I:401:ALA:HB2	1.99	0.45
3:I:472:GLU:HG2	3:I:473:MET:HG3	1.97	0.45
1:J:6:ARG:HD3	3:L:316:GLY:O	2.17	0.45
2:K:248:ILE:H	2:K:248:ILE:HG13	1.60	0.45
2:K:506:SER:HB3	2:K:537:ASN:OD1	2.17	0.45
2:K:514:VAL:O	3:L:44:SER:HB3	2.17	0.45
4:P:37:VAL:HG22	4:P:47:TRP:HA	1.99	0.45
1:A:276:CYS:HB2	1:A:698:PRO:HG3	1.99	0.44
3:C:141:ILE:HG21	3:C:143:ARG:NH2	2.32	0.44
3:C:142:ARG:HB3	3:C:217:PHE:CE1	2.52	0.44
1:D:104:LYS:HD2	1:D:104:LYS:HA	1.75	0.44
3:I:96:VAL:O	3:I:100:ASN:HB2	2.17	0.44
3:I:386:VAL:HG21	3:I:398:ILE:HD13	1.99	0.44
2:K:514:VAL:HA	2:K:551:PHE:HE1	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:719:GLY:HA2	3:L:736:LYS:HD3	1.98	0.44
4:O:115:LEU:HD13	4:O:116:GLY:N	2.32	0.44
1:A:310:CYS:O	1:A:313:THR:OG1	2.25	0.44
2:B:449:LEU:HD22	2:B:466:PHE:CD2	2.53	0.44
1:D:362:LYS:HG3	1:D:480:PHE:CE2	2.52	0.44
3:F:461:ILE:HD12	3:F:469:PRO:HB3	1.99	0.44
3:I:16:THR:HA	3:I:19:ILE:HG22	1.98	0.44
1:J:305:TYR:N	1:J:305:TYR:CD1	2.83	0.44
1:J:589:LEU:HD22	2:K:546:MET:HE3	1.99	0.44
2:K:572:ARG:CZ	3:L:93:PRO:HB2	2.48	0.44
4:O:37:VAL:O	4:O:95:TYR:N	2.50	0.44
1:A:261:LEU:O	1:A:264:THR:OG1	2.35	0.44
2:E:335:ASN:O	2:E:339:ILE:HG12	2.18	0.44
1:G:369:ALA:HB1	1:G:521:VAL:HG21	1.99	0.44
2:H:68:PRO:HG2	2:H:314:ASN:HD21	1.81	0.44
2:H:414:MET:O	2:H:418:VAL:HG23	2.18	0.44
2:H:494:SER:HB2	2:H:505:PHE:HD1	1.83	0.44
2:H:659:ALA:HB1	2:H:663:THR:HB	1.99	0.44
2:K:627:PRO:HD3	3:L:108:THR:HG21	1.99	0.44
2:K:750:ILE:HA	2:K:753:LEU:HD12	2.00	0.44
4:O:43:LYS:HG3	4:O:44:GLY:O	2.18	0.44
1:A:331:ASN:N	1:A:332:PRO:HD2	2.31	0.44
2:B:289:MET:O	2:B:452:ASN:ND2	2.51	0.44
2:B:516:GLY:N	2:B:522:ASP:OD1	2.49	0.44
3:F:478:ILE:HD12	3:F:478:ILE:HA	1.76	0.44
3:F:515:PRO:C	3:F:517:GLU:H	2.25	0.44
2:H:430:ARG:CZ	3:I:360:TYR:HB3	2.46	0.44
2:K:503:ALA:HB3	2:K:538:ASP:OD1	2.18	0.44
3:L:318:ARG:HB3	3:L:493:ARG:HB3	1.98	0.44
3:L:534:SER:HB3	3:L:576:GLU:HG3	1.99	0.44
1:A:73:LYS:HD2	1:A:73:LYS:HA	1.73	0.44
1:A:583:ARG:NH2	2:B:511:SER:HA	2.33	0.44
2:B:252:VAL:HG23	2:B:412:PHE:CE1	2.53	0.44
2:B:330:PRO:HB2	2:B:332:TRP:CD1	2.53	0.44
1:G:621:ILE:HG21	1:G:636:VAL:HG22	1.98	0.44
2:H:438:TRP:CG	2:H:449:LEU:HD11	2.53	0.44
2:H:686:GLU:HG3	3:I:36:SER:OG	2.18	0.44
3:I:264:ARG:HD3	3:I:518:VAL:CG2	2.48	0.44
3:I:464:LEU:HB3	3:I:465:PRO:HD2	1.99	0.44
1:J:168:ARG:O	1:J:172:LYS:HG3	2.17	0.44
3:L:540:ASN:HD21	3:L:544:SER:HB3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:PRO:HG3	1:A:542:VAL:HG21	1.99	0.44
2:B:610:CYS:HA	2:B:613:TRP:HB2	1.98	0.44
1:D:43:GLU:HG2	1:D:47:MET:HE2	1.99	0.44
2:E:252:VAL:HG23	2:E:412:PHE:CE1	2.52	0.44
3:I:193:LEU:HA	3:I:196:CYS:SG	2.57	0.44
1:J:571:SER:H	1:J:574:LYS:HB2	1.83	0.44
2:K:518:ASN:HB3	2:K:521:ALA:HB3	2.00	0.44
3:L:478:ILE:HD12	3:L:478:ILE:HA	1.78	0.44
3:L:563:GLN:HB3	3:L:571:LEU:HD12	1.98	0.44
2:B:374:ALA:C	2:B:393:ARG:HH21	2.24	0.44
2:B:438:TRP:HB2	2:B:449:LEU:HD11	2.00	0.44
2:B:485:ASN:N	2:B:485:ASN:OD1	2.50	0.44
1:D:54:ILE:HD11	1:D:113:LYS:HG2	2.00	0.44
1:D:207:ILE:HG22	1:D:212:ARG:HB2	1.98	0.44
1:D:529:ASP:HB3	1:D:531:ARG:HG2	2.00	0.44
2:E:66:LEU:HD23	2:E:66:LEU:HA	1.87	0.44
1:J:54:ILE:HD11	1:J:75:ARG:HD3	2.00	0.44
2:K:52:LYS:HD3	2:K:52:LYS:HA	1.84	0.44
2:K:473:VAL:HG23	2:K:475:ILE:HG13	1.99	0.44
3:L:753:ARG:HA	3:L:753:ARG:HD2	1.81	0.44
1:A:630:ASP:OD1	1:A:630:ASP:N	2.44	0.44
3:F:135:PHE:CZ	3:F:240:TRP:HB3	2.53	0.44
3:F:230:GLU:HG3	3:F:231:VAL:HG13	2.00	0.44
3:F:398:ILE:HD12	3:F:398:ILE:HA	1.74	0.44
1:G:54:ILE:HD11	1:G:75:ARG:HD3	2.00	0.44
1:G:111:ASP:OD1	1:G:112:TYR:N	2.50	0.44
1:G:288:LEU:HD22	1:G:527:LEU:HD11	1.99	0.44
1:J:178:ILE:O	1:J:182:MET:HG2	2.18	0.44
2:K:112:GLU:HG2	2:K:116:GLN:HE22	1.81	0.44
1:A:408:GLN:HG3	1:A:412:ASN:ND2	2.32	0.44
3:C:55:TYR:HA	3:C:92:SER:HA	2.00	0.44
3:C:121:LYS:HA	3:C:124:ARG:HD2	2.00	0.44
3:C:710:ILE:HD11	3:C:726:ILE:HA	2.00	0.44
1:D:304:LEU:O	1:D:308:ILE:HG23	2.18	0.44
1:D:309:LYS:HB3	1:D:309:LYS:HE2	1.76	0.44
2:E:706:ARG:NH1	3:F:164:MET:HE2	2.33	0.44
3:F:129:THR:O	3:F:245:THR:OG1	2.31	0.44
1:G:523:MET:HB3	1:G:563:LEU:HD11	2.00	0.44
2:H:49:TYR:CE1	2:H:79:PRO:HG2	2.53	0.44
2:H:302:ILE:O	2:H:302:ILE:HG13	2.18	0.44
3:I:385:ILE:HG23	3:I:460:MET:HE1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:566:GLN:HG2	3:I:567:ASN:ND2	2.32	0.44
1:J:217:GLN:HE22	2:K:58:ASN:HA	1.82	0.44
1:J:341:VAL:HG22	1:J:360:MET:HE3	1.98	0.44
3:L:332:ARG:HA	3:L:363:PHE:HD1	1.82	0.44
3:L:428:LEU:HB2	3:L:433:GLN:HG2	1.99	0.44
4:P:18:LEU:HD12	4:P:18:LEU:HA	1.82	0.44
4:P:106:THR:O	4:P:106:THR:OG1	2.34	0.44
1:A:537:TRP:HB3	1:A:540:TYR:HB2	2.00	0.43
2:B:52:LYS:HD3	2:B:52:LYS:HA	1.88	0.43
1:D:260:PHE:CZ	1:D:265:PRO:HG3	2.52	0.43
2:E:80:SER:N	2:E:476:ASN:OD1	2.31	0.43
2:E:735:ILE:HD12	2:E:735:ILE:HA	1.91	0.43
1:G:209:GLY:C	1:G:211:MET:H	2.26	0.43
2:H:534:MET:HE1	2:H:604:LEU:HD12	2.00	0.43
3:I:51:MET:HE1	3:I:93:PRO:HG3	1.99	0.43
3:I:264:ARG:HD3	3:I:518:VAL:HG22	2.00	0.43
1:J:179:ARG:HG2	1:J:188:TRP:CZ3	2.52	0.43
1:J:215:ALA:HA	2:K:342:ILE:HD13	2.00	0.43
1:J:408:GLN:HG3	1:J:412:ASN:ND2	2.33	0.43
2:K:270:GLY:HA2	2:K:281:LYS:NZ	2.33	0.43
4:M:18:LEU:HD12	4:M:18:LEU:HA	1.81	0.43
4:N:52:SER:CB	4:N:104:ILE:HD11	2.48	0.43
2:B:129:TYR:OH	2:B:134:ASN:OD1	2.27	0.43
2:B:697:GLU:HA	2:B:703:SER:OG	2.19	0.43
3:C:541:GLY:O	3:C:544:SER:OG	2.31	0.43
2:E:50:SER:HA	2:E:82:TYR:CE1	2.53	0.43
3:F:313:ALA:CB	3:F:496:VAL:HG21	2.48	0.43
2:H:527:VAL:HG11	2:H:599:TYR:CD2	2.53	0.43
1:J:354:ILE:HA	1:J:355:PRO:HD3	1.84	0.43
1:J:438:ILE:HG23	1:J:608:THR:HG21	2.00	0.43
1:J:630:ASP:OD1	1:J:630:ASP:N	2.47	0.43
2:K:104:GLU:OE1	2:K:104:GLU:N	2.50	0.43
3:L:281:LEU:HD21	3:L:314:ALA:HB1	1.99	0.43
3:C:537:TRP:CZ3	3:C:548:ASN:HB3	2.53	0.43
3:C:664:ARG:NE	3:C:671:ASP:OD1	2.45	0.43
2:E:52:LYS:HG3	2:E:72:PRO:HD2	2.00	0.43
3:F:751:THR:HA	3:F:754:ILE:HG22	2.00	0.43
1:G:193:GLN:HB3	1:G:201:ILE:O	2.19	0.43
1:G:331:ASN:N	1:G:332:PRO:HD2	2.33	0.43
2:H:86:ASP:OD1	2:H:86:ASP:N	2.50	0.43
2:H:260:ARG:HE	2:H:414:MET:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:361:GLU:OE1	3:I:376:LYS:NZ	2.49	0.43
3:I:540:ASN:HB2	3:I:544:SER:CB	2.48	0.43
1:J:592:ILE:O	1:J:596:ILE:HG13	2.18	0.43
4:M:106:THR:O	4:M:106:THR:OG1	2.35	0.43
2:B:114:VAL:HG12	2:B:254:PHE:CD1	2.53	0.43
2:B:368:ILE:HD12	2:B:368:ILE:O	2.19	0.43
1:D:523:MET:HB3	1:D:563:LEU:HD11	2.00	0.43
2:E:313:GLN:HB2	2:E:407:MET:HG2	2.00	0.43
2:E:589:LEU:HA	2:E:620:TYR:HE2	1.82	0.43
2:E:625:CYS:HB2	3:F:111:TYR:CE1	2.52	0.43
2:H:576:LEU:HD12	3:I:97:THR:HG21	1.99	0.43
3:I:395:ALA:O	3:I:399:ILE:HG12	2.17	0.43
2:K:302:ILE:O	2:K:302:ILE:HG13	2.16	0.43
3:L:141:ILE:HG21	3:L:143:ARG:NH2	2.34	0.43
3:L:159:ALA:O	3:L:163:ILE:HG12	2.18	0.43
3:L:176:ILE:HG13	3:L:694:PHE:H	1.83	0.43
1:A:359:ASN:HA	1:A:480:PHE:O	2.19	0.43
1:A:672:LEU:HD12	1:A:716:ARG:NH2	2.33	0.43
3:C:428:LEU:HB2	3:C:433:GLN:HG2	2.01	0.43
1:D:253:VAL:O	2:E:468:ARG:HD3	2.18	0.43
3:F:6:GLU:HA	3:F:9:ASN:OD1	2.19	0.43
1:G:354:ILE:HA	1:G:355:PRO:HD3	1.80	0.43
2:H:104:GLU:OE1	2:H:104:GLU:N	2.51	0.43
2:H:177:GLU:HA	2:H:214:LYS:HB2	2.00	0.43
2:H:449:LEU:HG	2:H:450:ILE:N	2.32	0.43
2:K:89:LEU:HD21	2:K:320:ALA:HB1	2.00	0.43
2:K:605:HIS:HD2	3:L:233:HIS:NE2	2.16	0.43
3:L:456:ASN:ND2	3:L:456:ASN:O	2.51	0.43
3:L:724:VAL:C	3:L:731:VAL:HG13	2.43	0.43
1:A:309:LYS:HA	1:A:312:ARG:HB2	2.01	0.43
2:B:589:LEU:HA	2:B:620:TYR:CE2	2.54	0.43
1:G:74:HIS:C	1:G:76:PHE:H	2.25	0.43
1:G:372:GLU:OE2	1:G:508:ARG:HD2	2.19	0.43
3:I:712:GLU:O	3:I:716:LEU:N	2.52	0.43
2:K:746:ILE:HG12	3:L:8:ARG:HH11	1.84	0.43
3:L:428:LEU:HB2	3:L:433:GLN:HE21	1.84	0.43
3:L:595:PHE:O	3:L:598:THR:HG22	2.18	0.43
2:B:52:LYS:HG2	2:B:82:TYR:CZ	2.53	0.43
2:B:506:SER:C	2:B:508:GLU:H	2.27	0.43
3:C:522:GLN:H	3:C:522:GLN:CD	2.27	0.43
1:D:205:PHE:H	2:E:332:TRP:HB2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:431:ASP:OD1	4:N:54:ASN:ND2	2.51	0.43
2:E:291:THR:OG1	3:F:383:GLN:NE2	2.51	0.43
2:E:706:ARG:HH11	3:F:164:MET:HE2	1.83	0.43
3:F:134:HIS:HE1	3:F:241:GLU:CB	2.32	0.43
3:F:167:VAL:HG13	3:F:168:PHE:CD2	2.54	0.43
1:G:163:LEU:HA	1:G:163:LEU:HD23	1.77	0.43
1:G:179:ARG:HG2	1:G:188:TRP:CZ3	2.54	0.43
1:G:431:ASP:HB2	4:O:53:ASN:HB2	2.00	0.43
2:H:248:ILE:H	2:H:248:ILE:HG13	1.62	0.43
2:H:330:PRO:O	2:H:334:ARG:HG3	2.18	0.43
3:I:142:ARG:HB2	3:I:487:GLU:O	2.18	0.43
1:J:274:PRO:O	1:J:402:SER:N	2.47	0.43
2:K:318:PHE:HA	2:K:321:MET:HG2	2.00	0.43
2:K:703:SER:HA	2:K:708:PRO:HG3	2.01	0.43
3:L:282:GLU:OE1	3:L:533:SER:OG	2.37	0.43
3:L:542:PRO:HB2	3:L:583:LEU:HD21	2.01	0.43
2:B:273:VAL:HB	2:B:277:GLU:HG3	2.00	0.43
2:B:589:LEU:HA	2:B:620:TYR:HE2	1.82	0.43
1:D:360:MET:HE2	1:D:482:LEU:HD22	2.00	0.43
2:E:497:TYR:HE1	3:F:458:MET:HE1	1.84	0.43
1:G:261:LEU:O	1:G:265:PRO:HD3	2.19	0.43
2:H:579:LEU:HG	3:I:101:ARG:HG3	2.00	0.43
3:I:712:GLU:HA	3:I:715:ASN:HB2	2.00	0.43
1:A:309:LYS:HB3	1:A:309:LYS:HE2	1.80	0.43
1:A:401:ARG:NH1	1:A:696:ASN:HD22	2.17	0.43
2:B:738:GLU:OE1	2:B:738:GLU:N	2.48	0.43
2:E:252:VAL:HG23	2:E:412:PHE:HE1	1.84	0.43
2:E:336:VAL:HG12	2:E:337:LEU:HD23	2.01	0.43
3:F:24:THR:OG1	3:F:25:VAL:N	2.51	0.43
3:F:111:TYR:O	3:F:113:LYS:N	2.41	0.43
3:F:730:ASP:OD1	3:F:730:ASP:N	2.37	0.43
1:G:8:CYS:O	1:G:174:ARG:NH2	2.52	0.43
1:G:592:ILE:O	1:G:596:ILE:HG13	2.19	0.43
2:H:163:LEU:O	2:H:167:LEU:HG	2.18	0.43
2:K:174:MET:HE1	2:K:343:MET:HE3	2.00	0.43
2:K:605:HIS:HD2	3:L:233:HIS:HE2	1.66	0.43
3:L:385:ILE:HG23	3:L:460:MET:HE1	2.01	0.43
3:L:391:GLU:HG3	3:L:467:MET:HE2	1.99	0.43
3:L:540:ASN:HD21	3:L:544:SER:CB	2.31	0.43
1:A:148:PHE:CE1	1:A:154:GLU:HB2	2.53	0.43
2:B:629:ASN:HA	2:B:630:PRO:HD3	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:395:ALA:O	3:C:399:ILE:HG12	2.19	0.43
3:C:403:VAL:HG11	3:C:435:LEU:HB2	2.01	0.43
3:C:435:LEU:O	3:C:439:GLN:HG3	2.19	0.43
1:D:590:GLN:O	1:D:594:SER:N	2.34	0.43
3:F:348:ASN:ND2	3:F:417:ASP:HA	2.34	0.43
2:H:261:SER:O	2:H:265:LYS:NZ	2.36	0.43
1:J:443:ARG:HB3	2:K:542:ALA:HB1	2.00	0.43
1:J:591:GLN:O	1:J:595:MET:HG3	2.18	0.43
3:L:24:THR:OG1	3:L:25:VAL:N	2.52	0.43
4:M:43:LYS:HG3	4:M:44:GLY:O	2.19	0.43
1:A:178:ILE:O	1:A:182:MET:HG2	2.19	0.42
1:A:298:GLU:HG3	1:A:488:LYS:NZ	2.34	0.42
2:B:306:ASN:HB3	2:B:309:TRP:HB2	2.00	0.42
2:B:349:ALA:HB3	2:B:401:ALA:HB3	2.01	0.42
2:B:622:GLY:HA3	3:C:105:MET:SD	2.59	0.42
1:D:34:LYS:HD2	1:D:200:THR:HB	2.01	0.42
1:D:658:PHE:CD1	1:D:694:LEU:HD11	2.54	0.42
2:E:584:ARG:NH2	2:E:617:ASP:HB3	2.34	0.42
3:F:313:ALA:HB1	3:F:496:VAL:HG21	2.00	0.42
2:H:41:ASP:O	2:H:45:ARG:HG3	2.19	0.42
2:H:324:TYR:O	2:H:327:LYS:HB2	2.18	0.42
3:I:499:ASP:OD2	3:I:503:ARG:HB2	2.18	0.42
1:J:579:MET:HE2	1:J:579:MET:HB3	1.85	0.42
2:K:249:ARG:HA	2:K:252:VAL:HG12	2.00	0.42
2:E:251:PHE:HB2	2:E:340:ALA:HB2	2.01	0.42
3:F:68:PRO:O	3:F:77:LEU:HD11	2.19	0.42
3:F:428:LEU:HB2	3:F:433:GLN:HE21	1.84	0.42
3:F:591:GLN:OE1	3:F:591:GLN:N	2.42	0.42
1:G:124:ARG:NH2	1:G:190:SER:OG	2.52	0.42
1:G:584:CYS:O	1:G:588:SER:OG	2.25	0.42
1:G:590:GLN:O	1:G:594:SER:N	2.37	0.42
2:H:52:LYS:HG3	2:H:72:PRO:HD2	2.00	0.42
2:H:170:VAL:O	2:H:173:SER:OG	2.32	0.42
2:H:623:ARG:NE	3:I:102:ASN:HA	2.34	0.42
2:H:708:PRO:HA	3:I:728:GLN:HE21	1.85	0.42
3:I:745:THR:O	3:I:749:THR:HG23	2.19	0.42
3:L:358:ASP:HA	3:L:378:THR:HB	2.01	0.42
1:A:296:SER:N	1:A:496:ARG:HH11	2.17	0.42
2:B:50:SER:HB3	2:B:68:PRO:HG3	2.01	0.42
2:B:419:LEU:O	2:B:422:SER:OG	2.24	0.42
2:B:506:SER:HB3	2:B:537:ASN:OD1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:354:ILE:HA	1:D:355:PRO:HD3	1.81	0.42
3:F:421:VAL:HG12	3:F:425:ASN:HA	2.00	0.42
3:F:429:ASN:HB2	3:F:430:PRO:HD2	2.01	0.42
2:H:510:PRO:HG3	2:H:529:VAL:HG12	2.01	0.42
1:J:124:ARG:HD3	1:J:194:SER:HB3	2.02	0.42
1:J:336:LEU:HD23	1:J:365:GLN:HG2	2.01	0.42
1:J:589:LEU:HD23	2:K:543:THR:HA	2.01	0.42
1:J:685:GLY:HA3	2:K:480:LYS:HG2	1.99	0.42
2:K:249:ARG:O	2:K:252:VAL:HG12	2.18	0.42
3:L:136:ARG:NH2	3:L:483:MET:HE1	2.30	0.42
3:L:407:GLU:OE1	3:L:476:ARG:NH2	2.52	0.42
1:A:130:TYR:HD2	1:A:147:ILE:HD13	1.84	0.42
1:D:74:HIS:C	1:D:76:PHE:H	2.27	0.42
1:D:477:MET:HA	1:D:509:SER:OG	2.20	0.42
1:D:492:LYS:HD2	1:D:492:LYS:HA	1.83	0.42
2:E:287:ARG:HH22	3:F:485:VAL:HA	1.85	0.42
2:E:612:LYS:O	2:E:616:MET:HG3	2.19	0.42
3:F:502:LEU:O	3:F:515:PRO:HD3	2.19	0.42
2:H:591:VAL:HG23	2:H:612:LYS:HZ1	1.84	0.42
3:I:287:THR:OG1	3:I:533:SER:OG	2.24	0.42
2:K:414:MET:O	2:K:418:VAL:HG23	2.20	0.42
1:A:354:ILE:HA	1:A:355:PRO:HD3	1.82	0.42
2:B:563:ARG:HD3	2:B:566:THR:HG23	2.01	0.42
2:E:19:SER:HB3	2:E:504:ASN:ND2	2.34	0.42
3:F:142:ARG:HB2	3:F:487:GLU:O	2.20	0.42
3:F:384:LEU:HD23	3:F:478:ILE:HD11	2.02	0.42
3:F:390:ASP:HB2	3:F:393:SER:OG	2.20	0.42
1:G:193:GLN:HE21	1:G:203:GLU:CG	2.31	0.42
1:G:314:PHE:HD2	1:G:317:TRP:CZ2	2.38	0.42
2:H:120:ASP:OD2	3:I:30:ILE:HA	2.18	0.42
2:H:538:ASP:N	2:H:538:ASP:OD1	2.50	0.42
3:I:436:ARG:NH2	3:I:516:GLU:O	2.52	0.42
1:J:318:LYS:H	1:J:546:GLY:HA2	1.85	0.42
1:J:331:ASN:N	1:J:332:PRO:HD2	2.35	0.42
1:J:620:PRO:HB3	1:J:628:VAL:HG13	2.01	0.42
2:K:95:LEU:HD12	2:K:422:SER:CB	2.50	0.42
2:K:114:VAL:HG12	2:K:254:PHE:CD1	2.54	0.42
2:K:625:CYS:HB3	3:L:111:TYR:CZ	2.54	0.42
4:M:22:CYS:HB3	4:M:79:LEU:HB3	2.02	0.42
1:A:420:SER:HB3	1:A:489:CYS:HB2	2.01	0.42
1:A:428:ILE:HA	2:B:597:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:527:VAL:HG11	2:B:599:TYR:CD2	2.54	0.42
2:B:585:SER:HB3	2:B:617:ASP:OD1	2.20	0.42
3:C:462:GLY:HA3	3:C:474:SER:HB3	2.02	0.42
2:E:271:LEU:N	2:E:272:PRO:HD2	2.35	0.42
3:L:333:THR:OG1	3:L:364:THR:HG23	2.20	0.42
1:A:438:ILE:HG23	1:A:608:THR:HG21	2.02	0.42
3:C:500:ARG:CZ	3:C:500:ARG:HB3	2.48	0.42
3:C:724:VAL:C	3:C:731:VAL:HG13	2.44	0.42
1:D:434:PRO:HB3	3:F:242:GLN:OE1	2.20	0.42
2:E:248:ILE:H	2:E:248:ILE:HG13	1.65	0.42
2:E:310:ASN:ND2	2:E:407:MET:HG3	2.35	0.42
2:E:350:ARG:NH2	2:E:352:GLY:HA2	2.34	0.42
1:G:607:MET:HE3	1:G:607:MET:HB3	1.68	0.42
2:H:485:ASN:N	2:H:485:ASN:OD1	2.53	0.42
1:J:445:TYR:HD2	1:J:612:PHE:CD2	2.38	0.42
1:J:607:MET:HE3	1:J:607:MET:HB3	1.97	0.42
1:J:639:THR:HG22	2:K:5:PRO:HB3	2.01	0.42
2:K:86:ASP:OD1	2:K:86:ASP:N	2.53	0.42
2:K:518:ASN:ND2	2:K:663:THR:HA	2.34	0.42
3:L:504:VAL:O	3:L:512:LEU:N	2.45	0.42
3:L:751:THR:HA	3:L:754:ILE:HG22	2.02	0.42
4:M:36:TRP:CZ3	4:M:96:CYS:HB2	2.54	0.42
1:A:144:HIS:CE1	1:A:157:THR:HB	2.55	0.42
3:C:193:LEU:HA	3:C:196:CYS:SG	2.60	0.42
1:D:164:ASP:OD1	1:D:165:GLU:N	2.46	0.42
3:F:153:ASP:OD2	3:F:301:ASN:ND2	2.52	0.42
3:F:611:ASP:OD1	3:F:611:ASP:N	2.43	0.42
1:G:292:ILE:HD13	1:G:309:LYS:HG3	2.02	0.42
1:J:266:ARG:O	1:J:687:TYR:OH	2.33	0.42
3:L:235:THR:O	3:L:241:GLU:HA	2.20	0.42
3:L:351:THR:O	3:L:352:LEU:HD12	2.20	0.42
1:A:592:ILE:HD13	1:A:595:MET:HE2	2.01	0.42
2:B:79:PRO:HA	2:B:471:LYS:NZ	2.35	0.42
2:B:414:MET:O	2:B:418:VAL:HG23	2.20	0.42
1:D:199:GLU:H	1:D:199:GLU:CD	2.28	0.42
2:H:738:GLU:OE1	2:H:738:GLU:N	2.50	0.42
1:J:426:ASP:OD1	2:K:553:LYS:HB2	2.20	0.42
1:J:431:ASP:HB3	1:J:437:TYR:CD1	2.55	0.42
3:L:142:ARG:HB3	3:L:217:PHE:HE1	1.83	0.42
3:L:379:ARG:HG2	3:L:406:GLN:O	2.20	0.42
3:L:402:MET:O	3:L:405:SER:OG	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:108:GLN:OE1	4:M:108:GLN:N	2.52	0.42
4:P:89:GLU:C	4:P:91:SER:H	2.27	0.42
1:A:119:GLU:OE1	1:A:145:ILE:HG23	2.20	0.42
1:A:163:LEU:HA	1:A:163:LEU:HD23	1.76	0.42
3:C:600:PHE:O	3:C:604:ARG:HG3	2.19	0.42
3:C:738:LYS:HD3	3:C:738:LYS:HA	1.89	0.42
1:D:54:ILE:HD13	1:D:54:ILE:HA	1.90	0.42
1:D:75:ARG:HG3	1:D:76:PHE:CD2	2.55	0.42
1:D:217:GLN:OE1	2:E:59:THR:HG23	2.20	0.42
1:D:310:CYS:O	1:D:313:THR:OG1	2.29	0.42
2:E:664:HIS:HD2	3:F:57:ILE:HG13	1.84	0.42
3:F:270:ALA:HB2	3:F:283:MET:HE1	2.01	0.42
1:G:345:LEU:HD11	1:G:503:PHE:HE2	1.85	0.42
1:G:433:ALA:HB2	3:I:130:PHE:CG	2.55	0.42
2:H:151:ARG:HH21	3:I:18:GLU:HG3	1.85	0.42
2:H:316:ARG:H	2:H:316:ARG:HG2	1.56	0.42
3:I:292:THR:OG1	3:I:297:ILE:HD11	2.20	0.42
3:I:421:VAL:HG12	3:I:425:ASN:HA	2.01	0.42
1:J:164:ASP:OD1	1:J:165:GLU:N	2.51	0.42
1:J:417:LEU:HD13	1:J:638:ARG:HD3	2.02	0.42
1:J:681:PHE:HB2	2:K:479:LYS:O	2.19	0.42
3:L:562:ILE:HD12	3:L:563:GLN:N	2.33	0.42
1:A:242:ILE:O	1:A:246:LEU:HG	2.19	0.41
1:A:583:ARG:HH22	2:B:511:SER:HA	1.85	0.41
2:B:162:ARG:H	2:B:162:ARG:HG2	1.74	0.41
3:C:148:ASN:HB3	3:C:151:HIS:CE1	2.55	0.41
3:C:420:PHE:CE2	3:C:437:HIS:HB2	2.55	0.41
2:E:70:ASP:OD2	2:E:85:THR:OG1	2.36	0.41
2:E:311:GLU:OE1	2:E:311:GLU:N	2.50	0.41
3:F:108:THR:C	3:F:110:HIS:N	2.77	0.41
3:F:163:ILE:O	3:F:167:VAL:HG12	2.20	0.41
1:G:434:PRO:HB2	3:I:133:VAL:CG2	2.50	0.41
2:H:114:VAL:HG12	2:H:254:PHE:CE1	2.55	0.41
2:H:249:ARG:O	2:H:252:VAL:HG12	2.20	0.41
2:H:438:TRP:HB2	2:H:449:LEU:HD11	2.02	0.41
2:H:514:VAL:HG21	2:H:559:TYR:HE1	1.85	0.41
2:H:693:CYS:SG	3:I:32:LYS:HA	2.60	0.41
3:I:63:ILE:H	3:I:63:ILE:HG13	1.65	0.41
3:I:131:GLY:HA3	3:I:243:MET:HE3	2.02	0.41
3:I:135:PHE:CE1	3:I:240:TRP:HB3	2.55	0.41
1:J:53:PHE:CE2	1:J:63:VAL:HG11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:163:LEU:HD23	1:J:163:LEU:HA	1.76	0.41
1:J:462:GLY:O	1:J:466:ASN:ND2	2.42	0.41
1:J:543:LEU:HD12	1:J:563:LEU:HD23	2.02	0.41
2:K:590:LEU:HD23	2:K:612:LYS:HD2	2.01	0.41
3:L:131:GLY:H	3:L:242:GLN:NE2	2.18	0.41
3:L:319:ILE:HD12	3:L:320:SER:O	2.20	0.41
3:L:744:LEU:HB2	3:L:745:THR:H	1.76	0.41
1:A:12:MET:HE1	3:C:748:GLN:HG3	2.03	0.41
1:A:124:ARG:HD3	1:A:194:SER:HB3	2.02	0.41
1:A:312:ARG:HG3	2:H:569:GLN:OE1	2.19	0.41
2:B:276:ASN:HB2	3:C:219:PRO:HG3	2.01	0.41
2:B:498:ARG:C	2:B:500:GLY:N	2.78	0.41
3:C:753:ARG:HA	3:C:753:ARG:HD2	1.73	0.41
1:D:474:CYS:HB2	3:F:49:TRP:CH2	2.55	0.41
1:G:180:GLN:NE2	3:I:174:ALA:H	2.18	0.41
1:G:352:GLU:HG3	1:G:353:LYS:HG3	2.01	0.41
1:G:450:VAL:HG13	1:G:641:LEU:HD22	2.02	0.41
1:G:477:MET:HA	1:G:509:SER:OG	2.19	0.41
2:H:690:GLN:O	2:H:694:ASN:ND2	2.39	0.41
1:J:189:ASP:HA	2:K:162:ARG:NH1	2.31	0.41
3:L:544:SER:HA	3:L:547:VAL:HG22	2.02	0.41
3:L:567:ASN:O	3:L:567:ASN:ND2	2.51	0.41
1:A:166:GLU:OE2	3:C:738:LYS:HB2	2.20	0.41
2:B:212:VAL:HB	2:B:216:SER:HB3	2.02	0.41
3:C:225:SER:O	3:C:229:ILE:HG12	2.20	0.41
3:C:562:ILE:HD12	3:C:563:GLN:N	2.34	0.41
3:C:629:SER:HB2	3:C:631:MET:HG2	2.02	0.41
1:D:431:ASP:OD2	1:D:440:SER:OG	2.37	0.41
3:F:506:ASP:HB2	3:F:512:LEU:CD1	2.50	0.41
1:G:185:ARG:HE	3:I:157:LYS:HE2	1.84	0.41
3:I:120:GLU:HB3	3:I:124:ARG:CZ	2.51	0.41
3:I:402:MET:O	3:I:405:SER:OG	2.31	0.41
3:I:707:ALA:HA	3:I:723:ASN:OD1	2.20	0.41
2:K:424:LEU:HA	2:K:438:TRP:HE1	1.85	0.41
3:L:542:PRO:HA	3:L:545:VAL:HG23	2.01	0.41
1:A:6:ARG:HD3	3:C:316:GLY:O	2.20	0.41
2:B:143:LEU:HA	2:B:246:MET:HE2	2.02	0.41
1:D:359:ASN:HA	1:D:480:PHE:O	2.21	0.41
2:E:738:GLU:OE1	2:E:738:GLU:N	2.51	0.41
3:F:134:HIS:CE1	3:F:241:GLU:CG	2.83	0.41
3:F:285:HIS:ND1	3:F:295:VAL:HG11	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:301:ASN:OD1	3:F:303:THR:OG1	2.21	0.41
3:F:366:VAL:HA	3:F:371:THR:HG22	2.02	0.41
1:G:199:GLU:H	1:G:199:GLU:CD	2.29	0.41
1:G:540:TYR:CD2	1:G:566:ARG:HB3	2.55	0.41
3:I:128:GLY:HA3	3:I:244:TYR:HE1	1.86	0.41
3:I:320:SER:OG	3:I:321:SER:N	2.53	0.41
3:L:54:LYS:H	3:L:54:LYS:HG2	1.55	0.41
3:L:261:ILE:HG12	3:L:522:GLN:HE21	1.86	0.41
1:A:589:LEU:HD23	2:B:543:THR:HA	2.02	0.41
2:B:249:ARG:O	2:B:252:VAL:HG12	2.20	0.41
1:D:583:ARG:NH2	2:E:511:SER:HA	2.36	0.41
3:F:735:MET:HG2	3:F:736:LYS:H	1.86	0.41
2:H:429:LYS:HG3	2:H:430:ARG:NH2	2.36	0.41
2:H:707:ARG:HA	2:H:708:PRO:HD3	1.94	0.41
2:K:485:ASN:OD1	2:K:485:ASN:N	2.53	0.41
2:K:708:PRO:HB3	3:L:728:GLN:HG3	2.01	0.41
3:L:515:PRO:O	3:L:517:GLU:N	2.53	0.41
4:N:12:VAL:HG22	4:N:13:GLN:H	1.85	0.41
4:N:108:GLN:H	4:N:108:GLN:CD	2.29	0.41
1:A:257:ILE:HD13	2:B:460:GLN:HG3	2.02	0.41
1:A:607:MET:HE3	1:A:607:MET:HB3	1.89	0.41
2:B:4:ASN:CG	2:B:7:LEU:HG	2.46	0.41
2:B:170:VAL:HG11	2:B:247:GLN:HB3	2.02	0.41
2:E:298:LEU:HD12	2:E:456:HIS:N	2.36	0.41
2:E:664:HIS:CD2	3:F:57:ILE:HG13	2.56	0.41
3:F:172:VAL:HG12	3:F:710:ILE:HD13	2.02	0.41
2:H:70:ASP:HA	2:H:84:GLN:HA	2.02	0.41
2:H:268:GLN:NE2	2:H:425:ASN:OD1	2.34	0.41
2:H:273:VAL:HB	2:H:277:GLU:HG3	2.02	0.41
1:J:75:ARG:HG3	1:J:76:PHE:CD2	2.56	0.41
2:K:111:MET:O	2:K:114:VAL:HG22	2.20	0.41
2:K:579:LEU:HD23	2:K:579:LEU:HA	1.86	0.41
2:K:622:GLY:HA3	3:L:105:MET:SD	2.61	0.41
2:K:693:CYS:HB3	3:L:32:LYS:HD3	2.02	0.41
2:K:696:PHE:CZ	3:L:25:VAL:HG13	2.56	0.41
1:A:596:ILE:O	1:A:600:SER:OG	2.19	0.41
2:B:571:ARG:HE	2:B:571:ARG:HB2	1.63	0.41
3:C:438:PHE:O	3:C:442:ALA:HB2	2.19	0.41
1:D:182:MET:O	1:D:187:LEU:N	2.43	0.41
1:D:581:MET:HE1	1:D:649:LEU:HD13	2.01	0.41
1:D:585:LEU:HD23	1:D:641:LEU:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:134:HIS:CE1	3:F:241:GLU:CB	3.03	0.41
3:F:342:GLU:O	3:F:353:LYS:HA	2.21	0.41
3:F:464:LEU:HB3	3:F:465:PRO:HD2	2.02	0.41
2:H:313:GLN:HB3	2:H:318:PHE:CE2	2.51	0.41
2:H:738:GLU:H	2:H:738:GLU:CD	2.29	0.41
3:I:431:MET:HA	3:I:431:MET:HE2	2.03	0.41
3:I:449:TRP:NE1	3:I:476:ARG:HB3	2.36	0.41
3:I:535:MET:HE2	3:I:535:MET:HB3	1.87	0.41
1:J:113:LYS:HE3	1:J:113:LYS:HB3	1.93	0.41
1:J:150:PHE:HB3	1:J:179:ARG:HB2	2.02	0.41
1:J:533:GLU:O	1:J:537:TRP:NE1	2.54	0.41
2:K:95:LEU:HD12	2:K:422:SER:HB3	2.03	0.41
2:K:111:MET:O	2:K:115:GLN:HG3	2.21	0.41
3:L:79:SER:OG	3:L:80:LYS:N	2.52	0.41
4:O:37:VAL:O	4:O:95:TYR:HB2	2.20	0.41
1:A:290:LEU:HB2	1:A:500:LEU:HB3	2.02	0.41
3:C:320:SER:HA	3:C:492:GLU:O	2.20	0.41
1:D:180:GLN:NE2	3:F:174:ALA:H	2.19	0.41
1:D:607:MET:HE3	1:D:607:MET:HB3	1.92	0.41
1:D:672:LEU:HD23	1:D:678:PRO:HD2	2.02	0.41
2:E:415:LEU:HD12	2:E:418:VAL:HB	2.03	0.41
3:F:110:HIS:CE1	3:F:196:CYS:HB3	2.56	0.41
1:G:529:ASP:HA	1:G:562:PHE:CE2	2.56	0.41
1:A:590:GLN:HG3	1:A:591:GLN:N	2.36	0.41
2:B:721:ARG:NH2	3:C:709:SER:OG	2.48	0.41
3:C:108:THR:C	3:C:110:HIS:N	2.78	0.41
3:C:739:ARG:HD3	3:C:739:ARG:HA	1.93	0.41
1:D:125:ARG:HE	1:D:129:ILE:HB	1.86	0.41
1:D:413:LYS:HZ1	1:D:454:ARG:HH21	1.69	0.41
1:D:426:ASP:OD1	2:E:553:LYS:HB2	2.20	0.41
1:D:550:LEU:O	1:D:556:GLN:HA	2.21	0.41
2:E:316:ARG:H	2:E:316:ARG:HG2	1.54	0.41
2:E:491:GLU:HA	2:E:495:PHE:O	2.21	0.41
2:E:578:LYS:HE3	2:E:578:LYS:HB3	1.96	0.41
2:E:751:GLU:O	2:E:754:ARG:HG2	2.21	0.41
1:G:90:VAL:O	1:G:94:ILE:HG12	2.20	0.41
1:G:193:GLN:O	1:G:201:ILE:HG12	2.21	0.41
1:G:362:LYS:HA	1:G:480:PHE:HE2	1.85	0.41
1:G:401:ARG:HH11	1:G:696:ASN:HB2	1.85	0.41
1:G:408:GLN:HG3	1:G:412:ASN:HD21	1.85	0.41
2:H:143:LEU:HA	2:H:246:MET:HE2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:518:ASN:O	2:H:522:ASP:HB2	2.20	0.41
3:I:129:THR:OG1	3:I:245:THR:OG1	2.34	0.41
3:I:256:ASP:OD2	3:I:303:THR:OG1	2.39	0.41
3:I:407:GLU:OE1	3:I:476:ARG:NH2	2.54	0.41
3:I:581:GLN:HG2	3:I:589:ARG:HD3	2.01	0.41
3:I:738:LYS:HE2	3:I:738:LYS:HB3	1.88	0.41
1:J:12:MET:HE2	1:J:12:MET:HB3	1.87	0.41
1:J:526:SER:OG	1:J:527:LEU:N	2.54	0.41
1:J:676:LEU:C	1:J:677:GLU:HG2	2.46	0.41
2:K:25:THR:HG23	2:K:509:LEU:HD21	2.02	0.41
2:K:336:VAL:HG12	2:K:337:LEU:HD23	2.02	0.41
3:L:182:GLN:C	3:L:184:THR:H	2.29	0.41
1:A:323:VAL:HG11	1:A:531:ARG:HH21	1.86	0.41
1:A:526:SER:OG	1:A:527:LEU:N	2.53	0.41
1:D:324:LYS:NZ	1:D:325:PRO:O	2.32	0.41
2:E:86:ASP:OD1	2:E:86:ASP:N	2.53	0.41
2:E:268:GLN:HB2	2:E:421:VAL:HG13	2.02	0.41
2:E:269:SER:HB2	2:E:421:VAL:HG21	2.03	0.41
2:E:507:MET:CE	2:E:539:LEU:HB3	2.51	0.41
2:E:572:ARG:NH2	3:F:97:THR:OG1	2.42	0.41
1:G:670:GLN:HG2	2:H:14:ALA:H	1.85	0.41
2:H:102:ILE:HD11	2:H:265:LYS:HB2	2.02	0.41
2:H:303:THR:OG1	2:H:490:PHE:HB2	2.21	0.41
2:H:550:LEU:HD23	2:H:550:LEU:HA	1.86	0.41
2:H:604:LEU:HD23	2:H:604:LEU:HA	1.88	0.41
3:I:421:VAL:HG11	3:I:425:ASN:OD1	2.21	0.41
1:J:228:ASN:OD1	1:J:228:ASN:N	2.54	0.41
1:J:425:LEU:CD2	1:J:447:THR:HG21	2.51	0.41
3:L:41:LYS:HE3	3:L:41:LYS:HB3	1.92	0.41
3:L:66:MET:HE3	3:L:66:MET:HB2	1.97	0.41
4:N:106:THR:O	4:N:106:THR:OG1	2.36	0.41
4:O:18:LEU:HD12	4:O:18:LEU:HA	1.92	0.41
1:A:33:ASN:ND2	1:A:193:GLN:HG2	2.34	0.40
2:B:120:ASP:OD2	3:C:30:ILE:HA	2.21	0.40
3:C:142:ARG:HH21	3:C:488:TYR:HB2	1.86	0.40
3:C:452:GLU:CD	3:C:477:GLY:H	2.28	0.40
1:D:168:ARG:O	1:D:172:LYS:HG3	2.20	0.40
1:D:287:ALA:HA	1:D:525:PHE:O	2.21	0.40
1:D:310:CYS:SG	1:D:500:LEU:HB2	2.62	0.40
2:E:52:LYS:HD3	2:E:52:LYS:HA	1.83	0.40
2:E:302:ILE:O	2:E:302:ILE:HG13	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:485:ASN:OD1	2:E:485:ASN:N	2.54	0.40
3:F:142:ARG:HB3	3:F:217:PHE:CE1	2.50	0.40
3:F:462:GLY:O	3:F:469:PRO:HA	2.21	0.40
1:G:590:GLN:HB3	2:H:543:THR:HG21	2.03	0.40
2:H:258:LEU:HD21	2:H:325:ILE:HG21	2.02	0.40
2:H:419:LEU:O	2:H:423:ILE:HG23	2.21	0.40
3:I:321:SER:O	3:I:512:LEU:HD22	2.21	0.40
1:J:582:ARG:HE	2:K:550:LEU:HD21	1.85	0.40
2:K:66:LEU:HD23	2:K:66:LEU:HA	1.88	0.40
2:K:538:ASP:OD2	3:L:238:THR:HG22	2.20	0.40
3:L:460:MET:HE3	3:L:479:ARG:HB3	2.03	0.40
3:L:611:ASP:HB2	3:L:613:THR:HG22	2.03	0.40
4:P:12:VAL:HG22	4:P:13:GLN:H	1.85	0.40
1:A:111:ASP:OD1	1:A:113:LYS:N	2.54	0.40
3:C:560:VAL:O	3:C:564:TRP:N	2.50	0.40
2:E:71:GLY:O	2:E:84:GLN:NE2	2.45	0.40
2:E:225:ASN:ND2	2:E:350:ARG:HD3	2.36	0.40
3:F:452:GLU:CD	3:F:476:ARG:HA	2.46	0.40
3:F:754:ILE:HD12	3:F:754:ILE:HA	1.80	0.40
3:I:498:ILE:HD11	3:I:502:LEU:HA	2.02	0.40
1:J:358:LYS:HD2	1:J:358:LYS:HA	1.75	0.40
1:J:548:MET:HE3	1:J:548:MET:HB2	1.89	0.40
1:J:621:ILE:HG21	1:J:636:VAL:HG22	2.03	0.40
2:K:707:ARG:HA	2:K:708:PRO:HD3	1.95	0.40
1:A:571:SER:H	1:A:574:LYS:HB2	1.87	0.40
2:B:167:LEU:HD22	2:B:251:PHE:CZ	2.57	0.40
2:B:531:LYS:HA	2:B:534:MET:HE3	2.02	0.40
3:C:449:TRP:CD1	3:C:476:ARG:HB3	2.56	0.40
1:D:252:GLU:C	1:D:254:ASN:HD22	2.30	0.40
2:E:102:ILE:HG23	2:E:103:PHE:CD1	2.56	0.40
2:E:225:ASN:ND2	2:E:350:ARG:HH21	2.18	0.40
2:E:626:ASN:HA	2:E:627:PRO:HD3	1.97	0.40
3:F:107:SER:C	3:F:109:VAL:H	2.28	0.40
2:H:222:LEU:HD13	2:H:346:ASN:O	2.21	0.40
1:J:34:LYS:HE2	1:J:38:ILE:HD11	2.04	0.40
1:J:441:MET:HE3	1:J:441:MET:HB2	1.97	0.40
3:L:160:GLN:HA	3:L:163:ILE:HG12	2.02	0.40
3:L:577:PHE:O	3:L:581:GLN:N	2.30	0.40
1:A:73:LYS:HE3	1:A:112:TYR:CE2	2.54	0.40
1:A:323:VAL:CG1	1:A:531:ARG:HH21	2.35	0.40
2:B:425:ASN:OD1	2:B:425:ASN:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:443:LYS:HA	3:C:446:PHE:HD2	1.87	0.40
1:D:309:LYS:HA	1:D:312:ARG:HB2	2.04	0.40
1:D:495:ARG:HH11	4:N:85:ASN:HB2	1.86	0.40
2:E:163:LEU:O	2:E:167:LEU:HG	2.21	0.40
2:E:222:LEU:HD13	2:E:346:ASN:O	2.21	0.40
2:E:518:ASN:O	2:E:559:TYR:OH	2.17	0.40
2:E:725:ASP:HA	2:E:728:ILE:HG12	2.04	0.40
3:F:147:ILE:HD11	3:F:216:ARG:NE	2.29	0.40
3:F:412:LYS:O	3:F:415:ARG:NH1	2.43	0.40
3:F:600:PHE:O	3:F:604:ARG:HG3	2.21	0.40
1:G:408:GLN:HG3	1:G:412:ASN:ND2	2.36	0.40
3:I:352:LEU:HD23	3:I:352:LEU:HA	1.93	0.40
1:J:74:HIS:C	1:J:76:PHE:H	2.29	0.40
2:K:307:THR:H	2:K:478:SER:HB2	1.86	0.40
2:K:725:ASP:HA	2:K:728:ILE:HG12	2.04	0.40
3:L:586:LYS:HG2	3:L:589:ARG:NH2	2.37	0.40
1:A:317:TRP:NE1	3:I:73:GLN:HE21	2.20	0.40
1:A:441:MET:HE3	1:A:441:MET:HB2	2.02	0.40
1:A:597:GLU:O	1:A:601:SER:N	2.54	0.40
1:D:331:ASN:N	1:D:332:PRO:HD2	2.36	0.40
2:E:111:MET:HG2	2:E:333:PHE:CD1	2.57	0.40
3:F:365:MET:HE3	3:F:372:ALA:HB3	2.04	0.40
3:F:522:GLN:CD	3:F:522:GLN:H	2.28	0.40
3:F:534:SER:HA	3:F:537:TRP:CD2	2.56	0.40
2:H:69:ILE:HD13	2:H:317:MET:HB2	2.03	0.40
2:H:151:ARG:HE	3:I:18:GLU:CD	2.29	0.40
2:H:309:TRP:CD1	2:H:309:TRP:C	2.99	0.40
2:H:563:ARG:HG3	2:H:565:ASP:H	1.87	0.40
3:I:110:HIS:CE1	3:I:196:CYS:HB2	2.56	0.40
1:J:213:ARG:HD3	2:K:60:GLU:CD	2.47	0.40
1:J:415:CYS:SG	1:J:639:THR:HA	2.61	0.40
1:J:440:SER:HA	1:J:443:ARG:HG2	2.03	0.40
3:L:39:GLN:CD	3:L:39:GLN:H	2.29	0.40
3:L:115:TYR:OH	3:L:202:MET:SD	2.80	0.40
3:L:172:VAL:O	3:L:727:GLY:HA2	2.22	0.40
4:O:53:ASN:ND2	4:O:102:GLY:O	2.54	0.40
4:P:97:ALA:HB1	4:P:111:ASP:OD2	2.21	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	687/716 (96%)	638 (93%)	49 (7%)	0	100	100
1	D	691/716 (96%)	638 (92%)	53 (8%)	0	100	100
1	G	690/716 (96%)	633 (92%)	54 (8%)	3 (0%)	30	59
1	J	686/716 (96%)	629 (92%)	56 (8%)	1 (0%)	48	76
2	B	644/757 (85%)	600 (93%)	43 (7%)	1 (0%)	43	71
2	E	656/757 (87%)	616 (94%)	40 (6%)	0	100	100
2	H	655/757 (86%)	608 (93%)	46 (7%)	1 (0%)	43	71
2	K	652/757 (86%)	607 (93%)	45 (7%)	0	100	100
3	C	707/765 (92%)	644 (91%)	61 (9%)	2 (0%)	36	65
3	F	718/765 (94%)	655 (91%)	63 (9%)	0	100	100
3	I	720/765 (94%)	660 (92%)	60 (8%)	0	100	100
3	L	713/765 (93%)	644 (90%)	67 (9%)	2 (0%)	36	65
4	M	119/134 (89%)	115 (97%)	4 (3%)	0	100	100
4	N	119/134 (89%)	114 (96%)	5 (4%)	0	100	100
4	O	119/134 (89%)	116 (98%)	3 (2%)	0	100	100
4	P	119/134 (89%)	114 (96%)	5 (4%)	0	100	100
All	All	8695/9488 (92%)	8031 (92%)	654 (8%)	10 (0%)	48	76

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	G	431	ASP
3	L	516	GLU
2	B	429	LYS
1	J	70	ALA
3	L	745	THR
3	C	322	SER

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Mol	Chain	Res	Type
2	H	429	LYS
3	C	247	GLY
1	G	433	ALA
1	G	432	VAL

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	620/644 (96%)	620 (100%)	0	100	100
1	D	624/644 (97%)	624 (100%)	0	100	100
1	G	623/644 (97%)	623 (100%)	0	100	100
1	J	622/644 (97%)	622 (100%)	0	100	100
2	B	580/669 (87%)	580 (100%)	0	100	100
2	E	590/669 (88%)	590 (100%)	0	100	100
2	H	589/669 (88%)	589 (100%)	0	100	100
2	K	588/669 (88%)	588 (100%)	0	100	100
3	C	634/676 (94%)	634 (100%)	0	100	100
3	F	643/676 (95%)	643 (100%)	0	100	100
3	I	645/676 (95%)	645 (100%)	0	100	100
3	L	640/676 (95%)	639 (100%)	1 (0%)	87	87
4	M	99/111 (89%)	99 (100%)	0	100	100
4	N	99/111 (89%)	99 (100%)	0	100	100
4	O	99/111 (89%)	99 (100%)	0	100	100
4	P	99/111 (89%)	99 (100%)	0	100	100
All	All	7794/8400 (93%)	7793 (100%)	1 (0%)	100	100

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	L	480	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (93) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	33	ASN
1	A	69	ASN
1	A	115	ASN
1	A	248	GLN
1	A	254	ASN
1	A	412	ASN
1	A	513	ASN
1	A	590	GLN
1	A	614	ASN
1	A	654	GLN
1	A	696	ASN
1	A	703	ASN
2	B	47	HIS
2	B	48	GLN
2	B	153	ASN
2	B	158	ASN
2	B	276	ASN
2	B	310	ASN
2	B	428	GLN
2	B	442	GLN
2	B	605	HIS
3	C	127	HIS
3	C	252	ASN
3	C	383	GLN
3	C	456	ASN
3	C	510	ASN
3	C	573	ASN
1	D	180	GLN
1	D	408	GLN
1	D	703	ASN
2	E	99	HIS
2	E	442	GLN
2	E	605	HIS
3	F	100	ASN
3	F	127	HIS
3	F	134	HIS
3	F	357	HIS
3	F	383	GLN

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Mol	Chain	Res	Type
3	F	448	ASN
3	F	456	ASN
3	F	540	ASN
3	F	573	ASN
3	F	614	GLN
3	F	628	GLN
1	G	10	ASN
1	G	96	ASN
1	G	115	ASN
1	G	254	ASN
1	G	346	GLN
1	G	409	ASN
1	G	412	ASN
1	G	519	ASN
1	G	614	ASN
1	G	703	ASN
2	H	145	ASN
2	H	597	ASN
3	I	73	GLN
3	I	148	ASN
3	I	242	GLN
3	I	439	GLN
3	I	447	GLN
3	I	453	HIS
3	I	540	ASN
3	I	573	ASN
3	I	581	GLN
1	J	33	ASN
1	J	144	HIS
1	J	254	ASN
1	J	346	GLN
1	J	408	GLN
1	J	409	ASN
1	J	587	GLN
1	J	654	GLN
2	K	48	GLN
2	K	115	GLN
2	K	134	ASN
2	K	145	ASN
2	K	268	GLN
2	K	292	ASN
2	K	310	ASN

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Mol	Chain	Res	Type
2	K	428	GLN
2	K	545	GLN
2	K	605	HIS
2	K	621	GLN
2	K	664	HIS
3	L	110	HIS
3	L	439	GLN
3	L	456	ASN
3	L	522	GLN
3	L	573	ASN
4	M	84	ASN
4	O	54	ASN
4	O	84	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

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	691/716 (96%)	0.19	16 (2%) 61 42	23, 62, 108, 163	0
1	D	695/716 (97%)	0.39	19 (2%) 56 38	37, 74, 119, 183	0
1	G	694/716 (96%)	0.32	12 (1%) 69 51	24, 72, 114, 173	0
1	J	692/716 (96%)	0.43	25 (3%) 46 31	39, 81, 124, 177	0
2	B	656/757 (86%)	0.23	12 (1%) 67 49	24, 61, 102, 159	0
2	E	666/757 (87%)	0.40	26 (3%) 43 29	32, 71, 108, 191	0
2	H	667/757 (88%)	0.42	27 (4%) 42 28	28, 75, 115, 151	0
2	K	664/757 (87%)	0.46	24 (3%) 46 31	35, 81, 116, 169	0
3	C	717/765 (93%)	0.48	30 (4%) 40 26	33, 79, 128, 168	0
3	F	726/765 (94%)	0.60	35 (4%) 35 24	38, 91, 144, 186	0
3	I	728/765 (95%)	0.50	31 (4%) 40 26	34, 77, 120, 159	0
3	L	723/765 (94%)	0.52	34 (4%) 36 25	32, 82, 127, 183	0
4	M	121/134 (90%)	0.33	1 (0%) 82 69	38, 63, 111, 130	0
4	N	121/134 (90%)	0.45	2 (1%) 69 51	54, 88, 126, 142	0
4	O	121/134 (90%)	0.39	6 (4%) 34 23	34, 66, 101, 132	0
4	P	121/134 (90%)	0.49	1 (0%) 82 69	56, 86, 118, 145	0
All	All	8803/9488 (92%)	0.42	301 (3%) 48 32	23, 76, 123, 191	0

All (301) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	F	717	ALA	5.4
2	E	375	SER	4.9
1	D	65	LEU	4.9
3	L	693	GLY	4.7
2	H	661	ALA	4.5

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Mol	Chain	Res	Type	RSRZ
3	C	581	GLN	4.4
3	C	743	ILE	4.4
1	D	578	GLY	4.3
2	E	410	GLY	4.3
3	F	524	THR	4.0
1	A	206	GLU	4.0
1	D	494	GLY	3.9
3	L	743	ILE	3.9
3	F	152	ALA	3.9
3	I	629	SER	3.8
1	A	716	ARG	3.8
2	E	270	GLY	3.7
2	E	501	PHE	3.7
2	K	659	ALA	3.7
1	D	473	SER	3.7
2	B	446	ASP	3.7
3	F	743	ILE	3.7
3	L	152	ALA	3.6
2	B	501	PHE	3.6
2	B	53	GLY	3.6
1	J	660	ALA	3.6
3	C	152	ALA	3.6
2	H	53	GLY	3.5
3	C	134	HIS	3.5
3	I	291	GLY	3.5
3	I	322	SER	3.5
3	I	486	ASP	3.5
3	F	354	ILE	3.5
3	C	457	VAL	3.5
2	E	390	GLU	3.4
2	H	440	GLY	3.4
2	B	666	TRP	3.4
2	E	53	GLY	3.4
3	L	717	ALA	3.4
3	L	521	THR	3.4
1	D	194	SER	3.3
2	E	520	SER	3.3
3	I	751	THR	3.2
2	E	521	ALA	3.2
3	F	291	GLY	3.2
2	H	29	PRO	3.2
2	K	320	ALA	3.2

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Mol	Chain	Res	Type	RSRZ
3	I	140	LYS	3.2
2	K	249	ARG	3.2
3	C	153	ASP	3.1
3	L	109	VAL	3.1
1	J	65	LEU	3.1
3	L	746	ASP	3.1
3	C	174	ALA	3.1
3	F	666	THR	3.0
1	D	607	MET	3.0
3	L	90	MET	3.0
3	C	99	TRP	3.0
2	H	352	GLY	3.0
1	J	210	THR	3.0
2	H	666	TRP	3.0
2	K	270	GLY	3.0
3	F	327	GLY	3.0
2	H	376	ILE	3.0
2	E	28	PRO	3.0
3	F	150	GLY	3.0
3	C	539	ILE	3.0
3	L	716	LEU	2.9
3	F	336	SER	2.9
3	L	250	VAL	2.9
1	G	607	MET	2.9
3	L	618	LEU	2.9
2	K	178	GLU	2.9
4	N	30	SER	2.9
2	H	373	LEU	2.9
3	C	717	ALA	2.9
2	E	666	TRP	2.9
3	I	693	GLY	2.9
1	D	660	ALA	2.9
3	I	531	TYR	2.9
3	I	755	ARG	2.9
4	O	95	TYR	2.9
3	F	716	LEU	2.9
2	K	408	MET	2.8
2	K	666	TRP	2.8
2	K	513	GLY	2.8
3	C	248	GLY	2.8
3	F	399	ILE	2.8
1	D	474	CYS	2.8

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Mol	Chain	Res	Type	RSRZ
4	O	115	LEU	2.8
1	D	347	ASP	2.8
1	J	355	PRO	2.8
2	B	502	VAL	2.8
1	J	187	LEU	2.8
2	H	753	LEU	2.8
4	O	113	ASP	2.7
2	H	351	LEU	2.7
3	L	6	GLU	2.7
3	F	223	GLY	2.7
3	F	719	GLY	2.7
3	L	5	LYS	2.7
2	K	505	PHE	2.7
2	B	410	GLY	2.7
3	I	637	THR	2.7
1	J	652	SER	2.7
3	F	296	ASP	2.7
3	L	182	GLN	2.7
1	D	8	CYS	2.7
3	I	248	GLY	2.7
2	E	29	PRO	2.6
4	M	109	PRO	2.6
1	J	628	VAL	2.6
2	B	521	ALA	2.6
3	F	400	VAL	2.6
2	H	102	ILE	2.6
3	C	105	MET	2.6
3	I	487	GLU	2.6
1	A	200	THR	2.6
1	D	577	TRP	2.6
4	P	96	CYS	2.6
3	I	321	SER	2.6
3	L	135	PHE	2.6
1	G	350	ASN	2.6
3	L	444	VAL	2.6
3	I	489	SER	2.6
1	J	271	PRO	2.6
2	K	442	GLN	2.6
3	C	316	GLY	2.6
1	J	278	GLN	2.6
3	C	719	GLY	2.6
3	I	275	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
1	G	599	GLU	2.6
3	L	165	GLU	2.6
2	B	374	ALA	2.6
2	K	503	ALA	2.6
3	F	130	PHE	2.5
3	I	437	HIS	2.5
2	E	118	ARG	2.5
1	D	544	GLU	2.5
3	C	511	VAL	2.5
1	D	633	ILE	2.5
3	L	176	ILE	2.5
3	I	205	TYR	2.5
1	A	430	GLU	2.5
1	D	66	ASP	2.5
3	F	754	ILE	2.5
3	C	329	THR	2.5
3	L	735	MET	2.5
1	A	127	VAL	2.5
2	E	505	PHE	2.5
3	F	356	VAL	2.5
1	A	39	CYS	2.5
2	E	573	SER	2.5
3	F	735	MET	2.5
3	C	352	LEU	2.5
2	K	661	ALA	2.4
1	J	190	SER	2.4
1	A	607	MET	2.4
1	G	206	GLU	2.4
2	H	179	MET	2.4
3	L	111	TYR	2.4
3	F	436	ARG	2.4
1	A	65	LEU	2.4
3	L	89	VAL	2.4
3	F	198	ILE	2.4
3	I	66	MET	2.4
3	L	323	PHE	2.4
3	L	629	SER	2.4
4	O	71	SER	2.4
1	A	125	ARG	2.4
2	H	104	GLU	2.4
2	K	261	SER	2.4
3	F	448	ASN	2.4

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Mol	Chain	Res	Type	RSRZ
3	L	486	ASP	2.4
1	G	448	ALA	2.4
1	G	608	THR	2.3
2	E	610	CYS	2.4
3	C	458	MET	2.3
2	E	76	ASP	2.3
1	J	106	LEU	2.3
1	J	259	PRO	2.3
1	J	478	ASP	2.3
2	K	120	ASP	2.3
3	I	354	ILE	2.3
2	K	374	ALA	2.3
3	C	521	THR	2.3
2	H	82	TYR	2.3
2	B	27	ASP	2.3
3	I	485	VAL	2.3
2	E	667	ILE	2.3
2	E	728	ILE	2.3
3	F	149	PRO	2.3
2	H	83	ALA	2.3
1	D	482	LEU	2.3
2	H	80	SER	2.3
2	H	657	TYR	2.3
1	J	548	MET	2.2
3	C	735	MET	2.2
3	F	618	LEU	2.2
3	I	177	LEU	2.2
3	F	432	HIS	2.2
2	E	732	SER	2.2
2	H	402	SER	2.2
3	I	490	SER	2.2
1	D	350	ASN	2.2
2	H	115	GLN	2.2
2	H	273	VAL	2.2
1	J	688	GLU	2.2
2	E	70	ASP	2.2
3	L	153	ASP	2.2
3	L	506	ASP	2.2
3	C	77	LEU	2.2
3	C	564	TRP	2.2
1	J	445	TYR	2.2
1	J	715	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
2	H	81	GLY	2.2
2	K	28	PRO	2.2
2	K	290	MET	2.2
3	L	243	MET	2.2
4	N	88	PRO	2.2
2	K	288	LYS	2.2
3	L	140	LYS	2.2
3	L	505	ARG	2.2
1	A	554	ILE	2.2
1	J	695	ILE	2.2
2	E	267	GLU	2.2
3	C	202	MET	2.2
3	L	317	LEU	2.2
1	J	152	GLY	2.2
3	I	729	GLY	2.2
1	A	73	LYS	2.2
1	A	216	ASP	2.2
1	A	294	ASP	2.2
2	E	165	ASP	2.2
3	I	436	ARG	2.2
2	H	417	THR	2.2
2	K	34	THR	2.2
3	F	357	HIS	2.2
1	G	57	GLN	2.2
3	L	154	LEU	2.2
1	G	613	GLU	2.2
3	I	252	ASN	2.2
1	G	68	PRO	2.2
4	O	66	GLY	2.2
1	J	577	TRP	2.2
2	H	253	TYR	2.1
3	L	321	SER	2.1
2	H	410	GLY	2.1
3	C	425	ASN	2.1
3	L	246	PRO	2.1
1	G	189	ASP	2.1
3	C	486	ASP	2.1
3	F	494	VAL	2.1
3	F	30	ILE	2.1
3	I	176	ILE	2.1
3	F	756	MET	2.1
2	B	661	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	152	GLY	2.1
1	J	604	GLU	2.1
2	K	35	GLY	2.1
3	C	37	GLY	2.1
2	E	166	PHE	2.1
1	A	633	ILE	2.1
2	K	417	THR	2.1
3	I	344	LEU	2.1
3	I	90	MET	2.1
1	D	229	PHE	2.1
2	E	525	ILE	2.1
1	D	485	MET	2.1
2	H	659	ALA	2.1
3	L	632	GLN	2.1
3	C	669	GLY	2.1
3	I	158	GLU	2.1
2	B	732	SER	2.1
3	I	747	SER	2.1
2	H	212	VAL	2.1
2	K	212	VAL	2.1
3	F	339	LYS	2.1
3	I	353	LYS	2.1
2	E	290	MET	2.1
3	F	253	ASP	2.1
2	E	687	GLN	2.1
2	K	116	GLN	2.1
1	J	293	GLU	2.1
1	J	544	GLU	2.1
3	F	438	PHE	2.1
1	J	309	LYS	2.0
4	O	98	LYS	2.0
1	G	322	ILE	2.0
1	A	557	MET	2.0
3	F	1	MET	2.0
3	C	746	ASP	2.0
3	F	488	TYR	2.0
2	H	33	GLY	2.0
2	K	399	GLY	2.0
1	D	711	LEU	2.0
1	J	549	LEU	2.0
2	B	32	HIS	2.0
3	C	651	GLY	2.0

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Mol	Chain	Res	Type	RSRZ
3	C	241	GLU	2.0
1	G	72	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.