Full wwPDB EM Validation Report ⓘ

Oct 1, 2024 – 04:17 pm BST

PDB ID	:	8RRT
EMDB ID	:	EMD-19464
Title	:	Structure of rabbit RyR1 reconstituted into lipid liposomes in open state in complex with FKBP and Nb9657
Authors	:	Li, C.; Efremov, R.G.
Deposited on	:	2024-01-23
Resolution	:	4.60 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp
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:

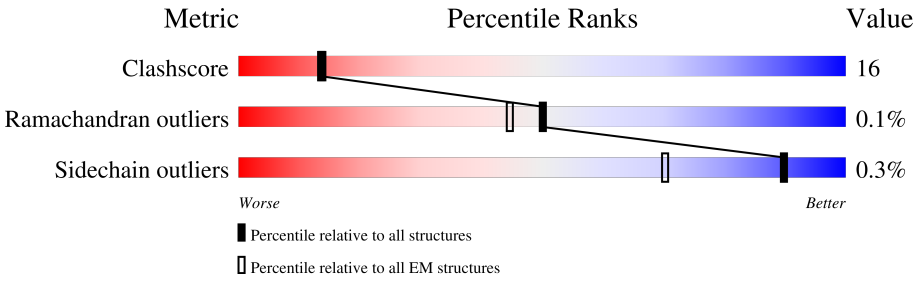
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	1.8.4, CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 4.60 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	B	5027	58% 28% 14%
1	E	5027	57% 28% 14%
1	G	5027	57% 29% 14%
1	J	5027	57% 28% 14%
2	A	107	64% 36%
2	D	107	63% 37%
2	H	107	62% 37%
2	I	107	61% 39%

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Mol	Chain	Length	Quality of chain
3	C	137	
3	F	137	
3	K	137	
3	M	137	

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 143740 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	4319	Total 34103	C 21737	N 5881	O 6261	S 224	1	0
1	E	4319	Total 34103	C 21737	N 5881	O 6261	S 224	1	0
1	G	4319	Total 34103	C 21737	N 5881	O 6261	S 224	1	0
1	J	4319	Total 34103	C 21737	N 5881	O 6261	S 224	1	0

- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A	107	Total 818	C 516	N 144	O 154	S 4	0	0
2	D	107	Total 818	C 516	N 144	O 154	S 4	0	0
2	H	107	Total 818	C 516	N 144	O 154	S 4	0	0
2	I	107	Total 818	C 516	N 144	O 154	S 4	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	100	ASP	GLY	conflict	UNP Q8HYX6
D	100	ASP	GLY	conflict	UNP Q8HYX6
H	100	ASP	GLY	conflict	UNP Q8HYX6
I	100	ASP	GLY	conflict	UNP Q8HYX6

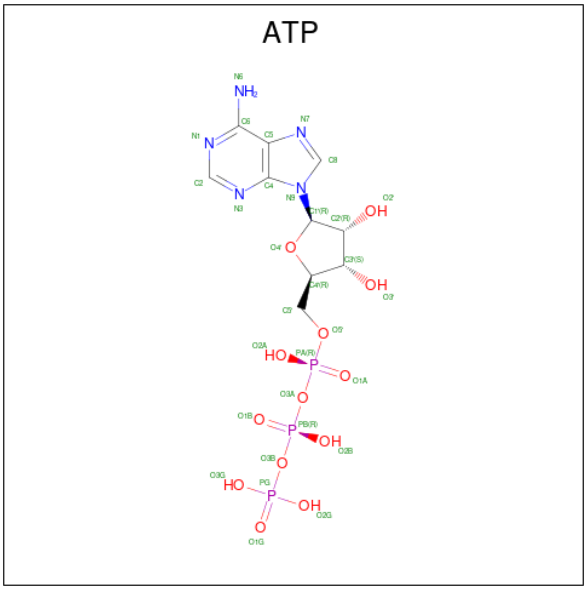
- Molecule 3 is a protein called Nanobody 9657.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	F	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	K	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	M	126	Total	C	N	O	S	0	0
			967	597	170	195	5		

- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
4	B	1	Total	Zn	0
			1	1	
4	E	1	Total	Zn	0
			1	1	
4	G	1	Total	Zn	0
			1	1	
4	J	1	Total	Zn	0
			1	1	

- Molecule 5 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
5	B	1	Total	C	N	O	P	0
			31	10	5	13	3	

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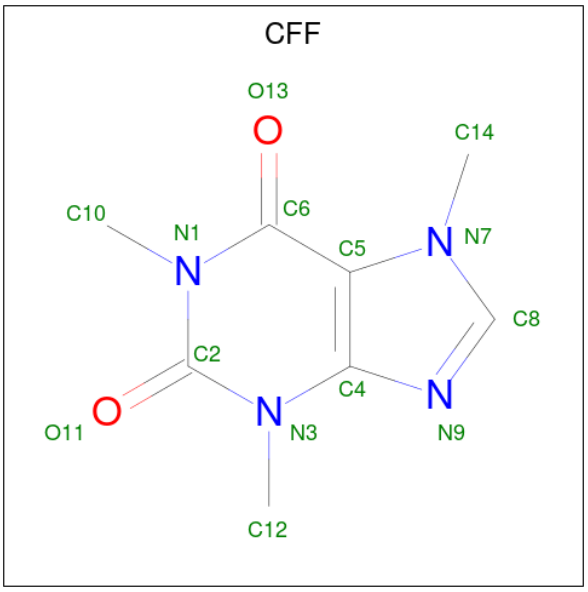
Mol	Chain	Residues	Atoms					AltConf
5	E	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	G	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	J	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 6 is CAFFEINE (three-letter code: CFF) (formula: $C_8H_{10}N_4O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
6	B	1	Total	C	N	O	0
			14	8	4	2	
6	E	1	Total	C	N	O	0
			14	8	4	2	
6	G	1	Total	C	N	O	0
			14	8	4	2	
6	J	1	Total	C	N	O	0
			14	8	4	2	

- Molecule 7 is CALCIUM ION (three-letter code: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
7	B	1	Total	Ca	0
			1	1	

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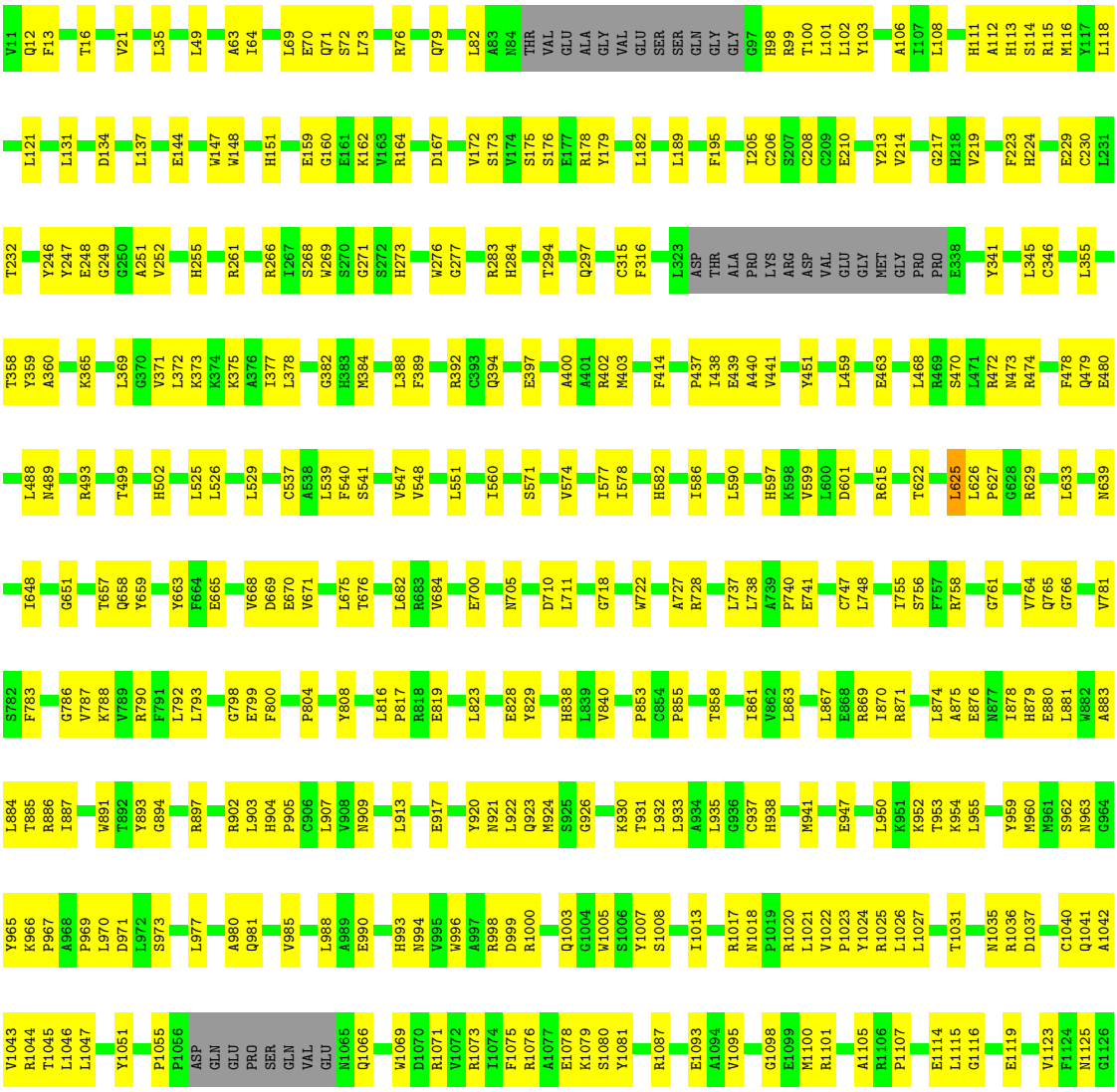
Mol	Chain	Residues	Atoms	AltConf
7	E	1	Total Ca 1 1	0
7	G	1	Total Ca 1 1	0
7	J	1	Total Ca 1 1	0

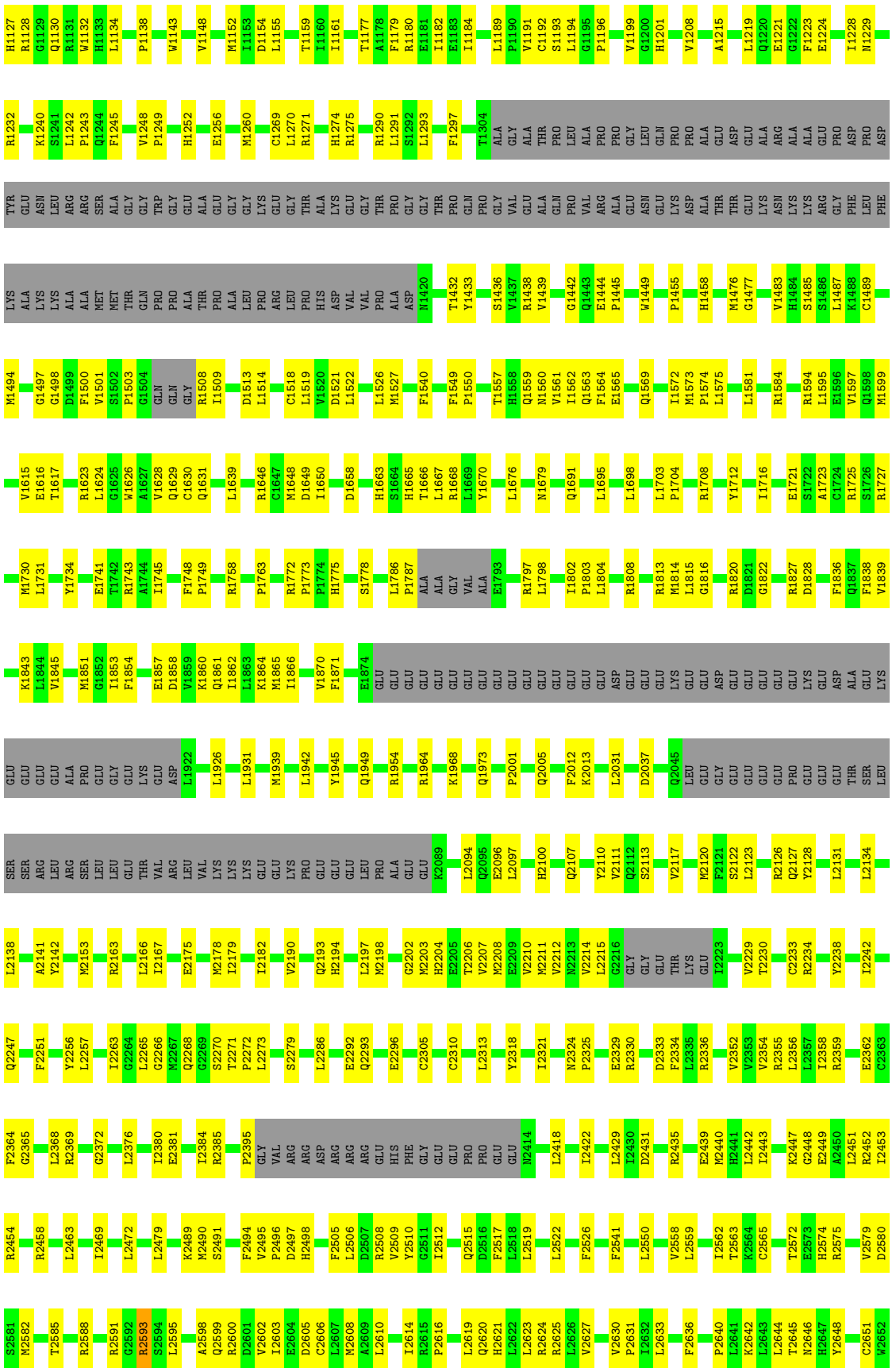
3 Residue-property plots (i)

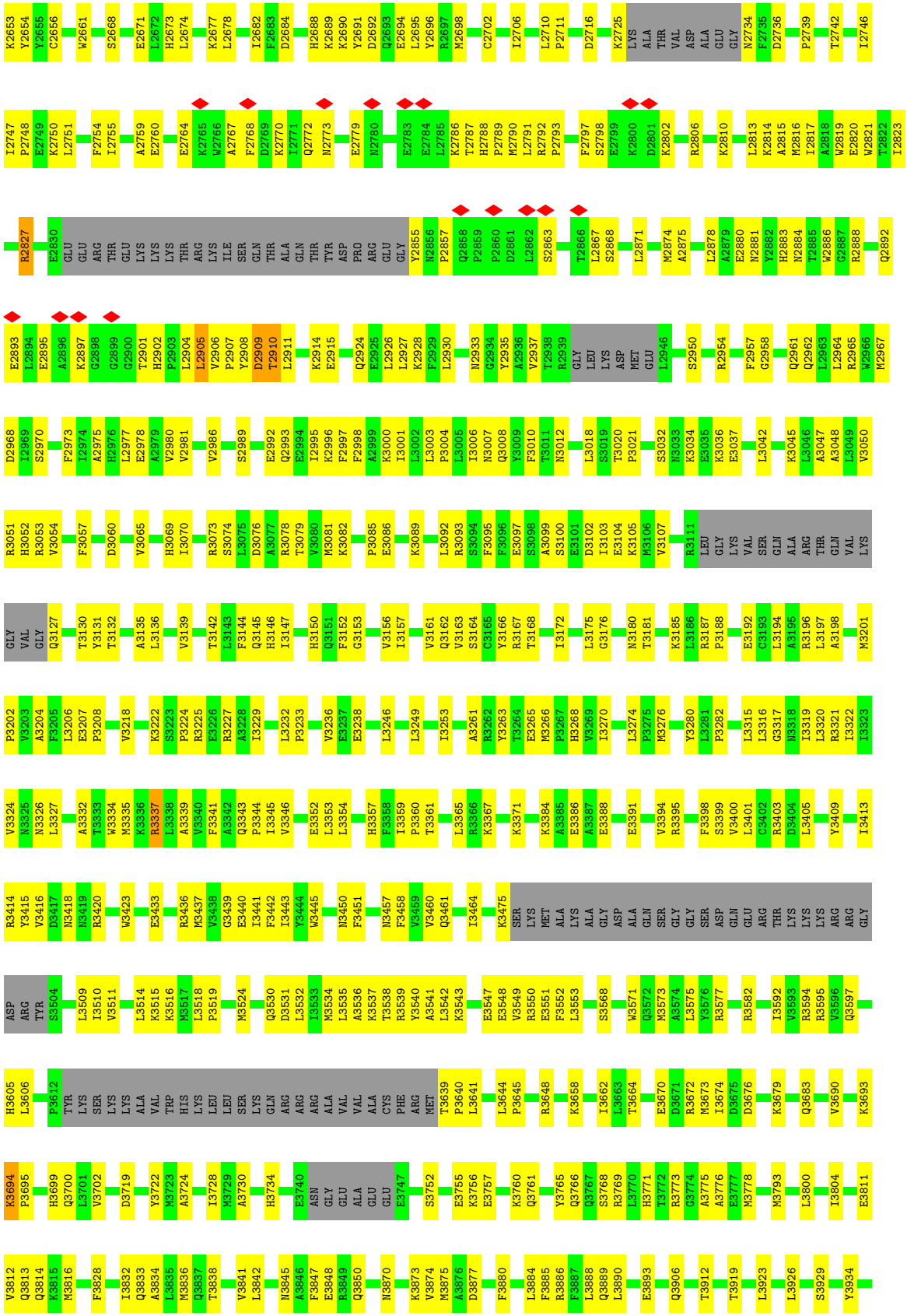
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

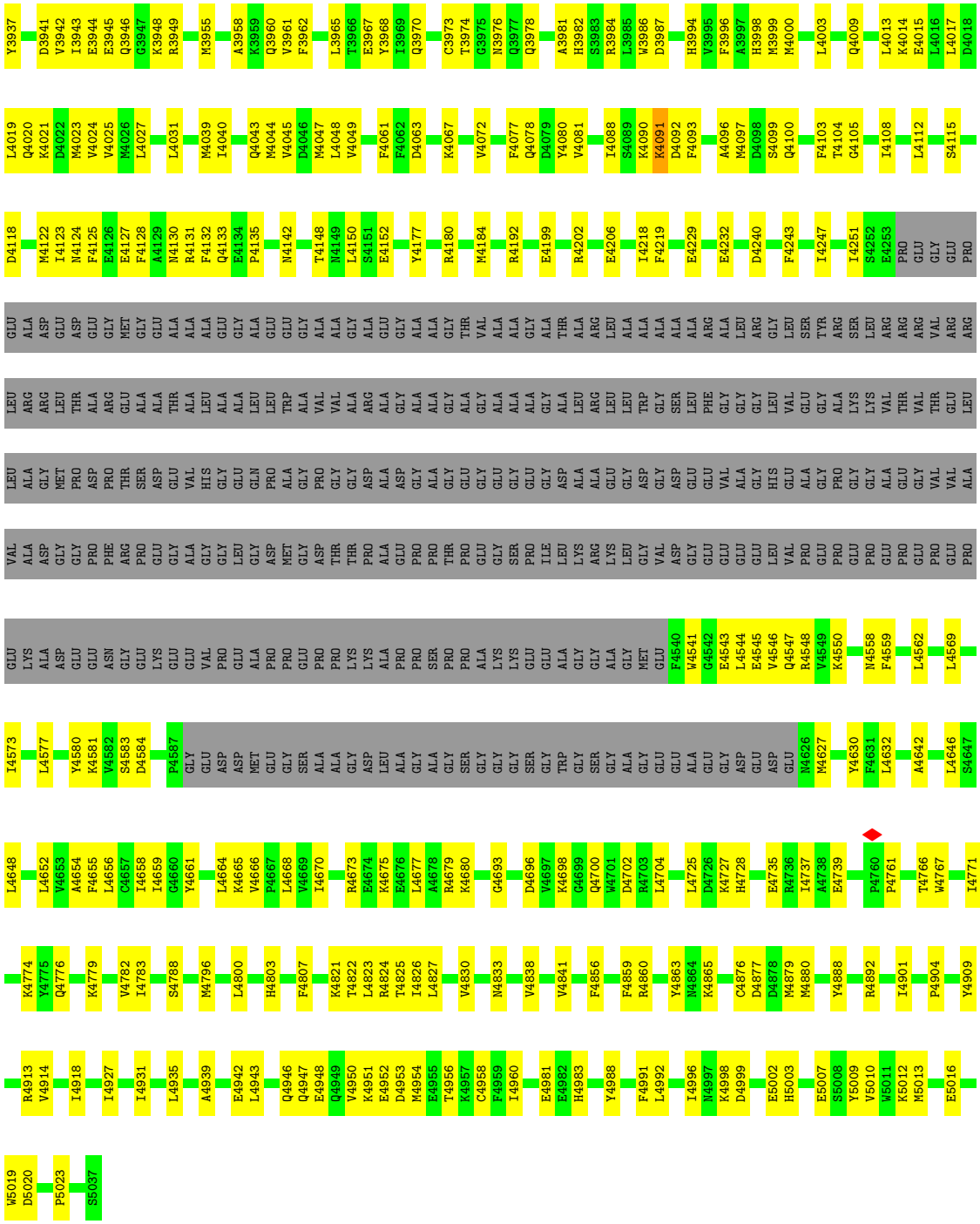
- Molecule 1: Ryanodine receptor 1

Chain B:



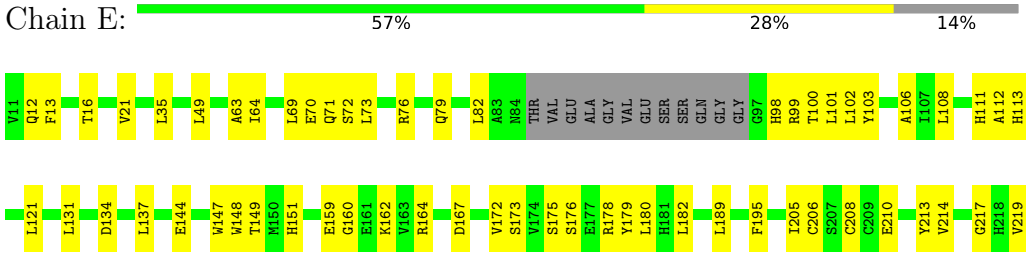


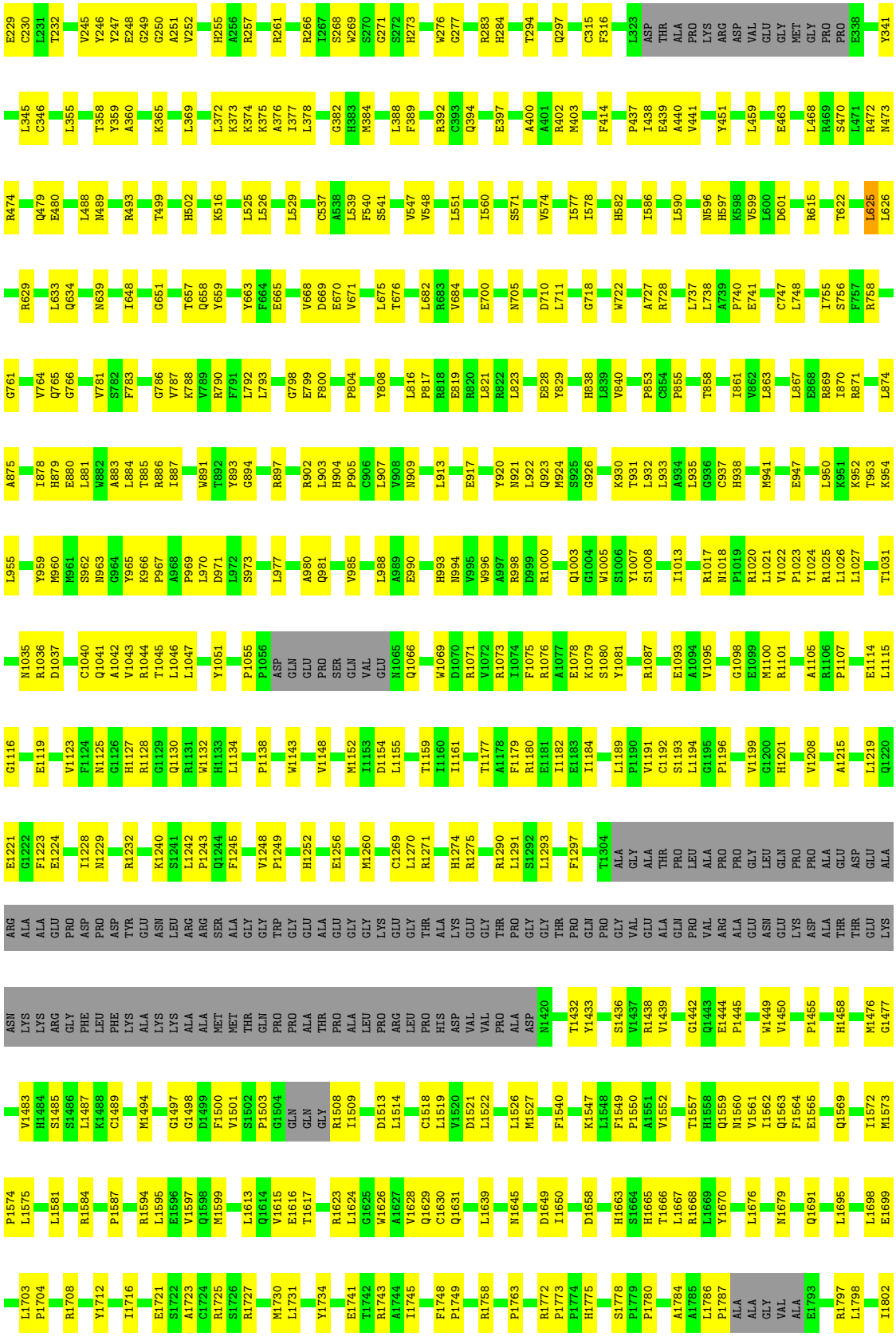


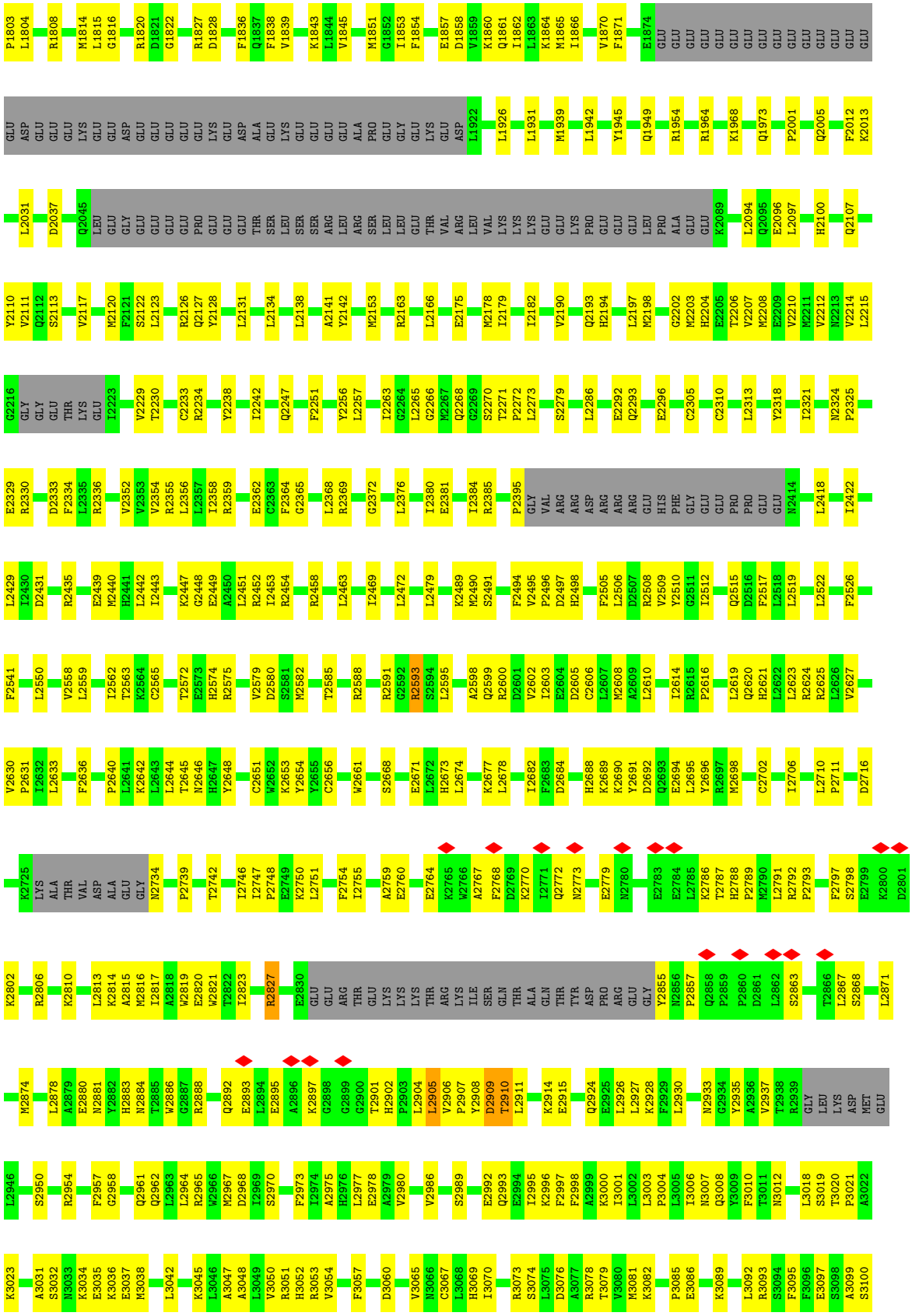


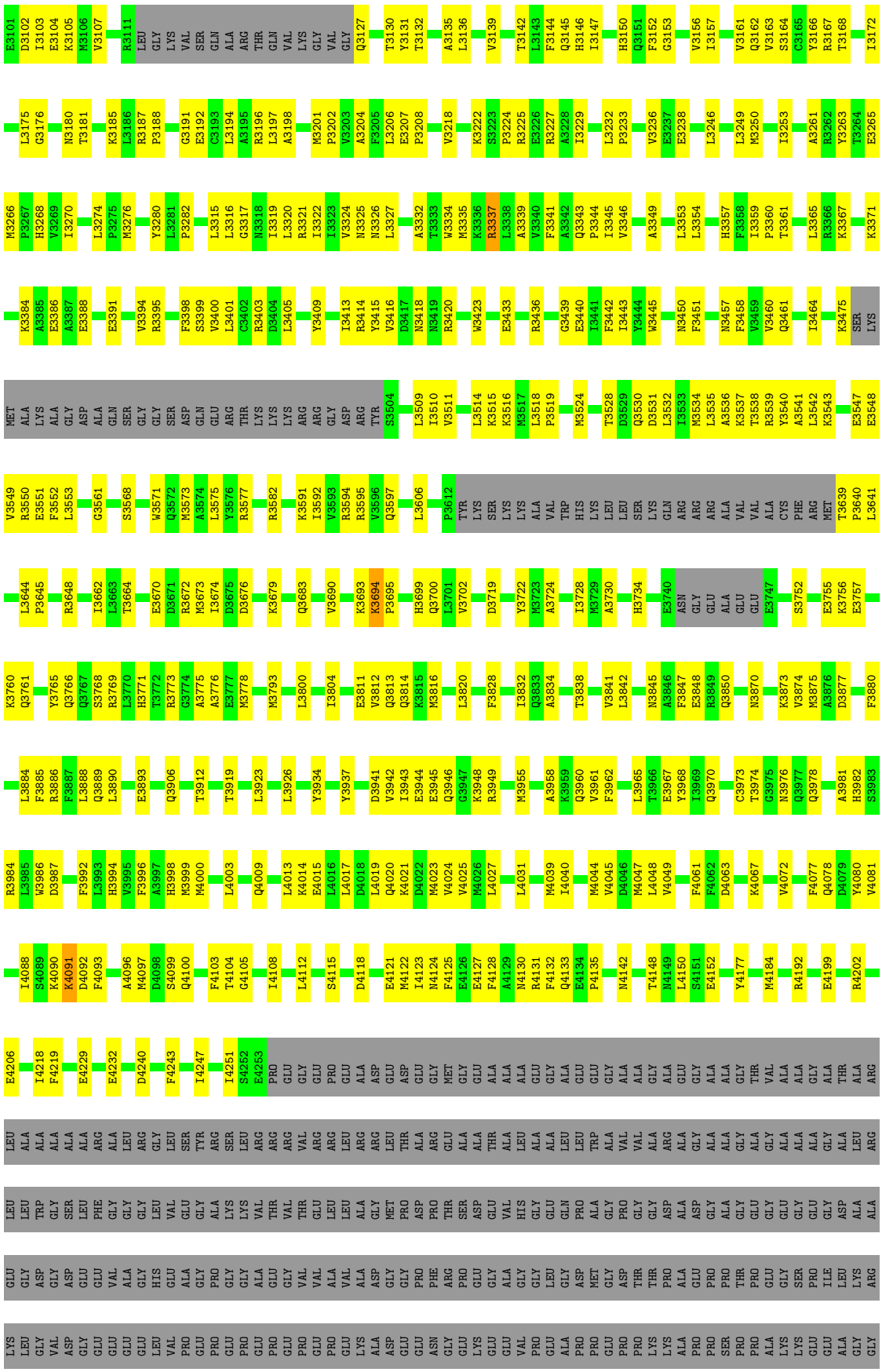
• Molecule 1: Ryanodine receptor 1

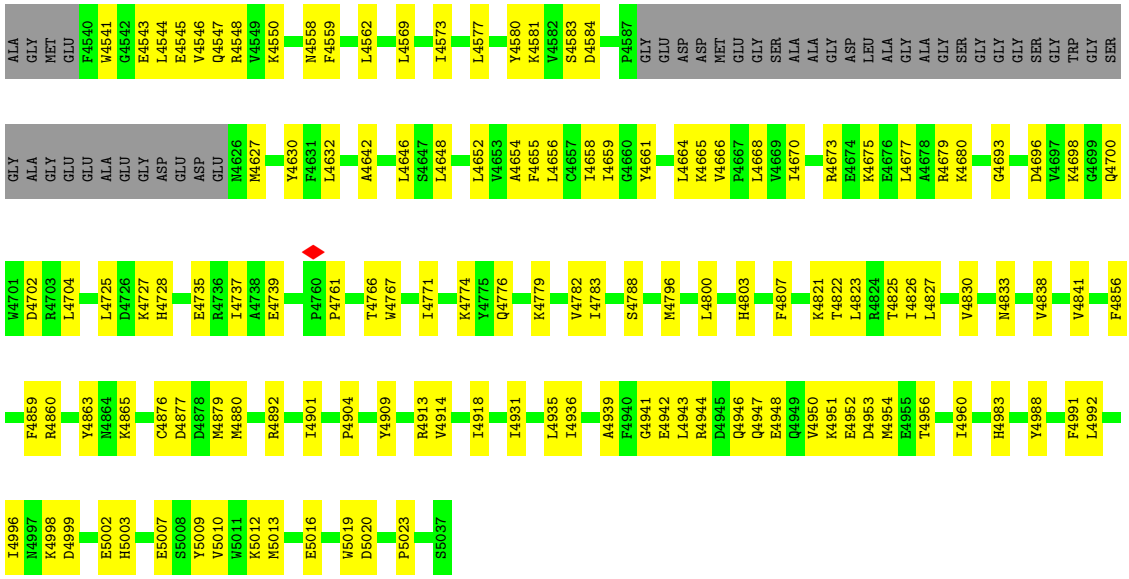
Chain E:




E229 C230 L231 T232 V245 Y246 Y247 E248 G249 G250 A251 V252 H255 A256 R257 R261 R266 I267 S268 W269 S270 G271 S272 H273 W276 G277 R283 H284 T294 Q297 C315 F316 L323 ASP THR ALA PRO LYS ARG ASP VAL GLU GLY MET GLY PRO PRO E338 Y341
L345 C346 L355 T358 Y359 A360 K365 L369 L372 K373 K374 K375 A376 I377 L378 G382 H383 M384 L388 F389 R392 C393 Q394 E397 A400 A401 R402 M403 F414 P437 I438 E439 A440 V441 Y451 L459 E463 L468 R469 S470 L471 R472 N473
R474 Q479 E480 L488 N489 R493 T499 H502 K516 L525 L526 L529 C537 A538 L539 F540 S541 V547 V548 L551 I560 S571 V574 I577 I578 H582 I586 L590 N596 H597 K598 V599 L600 D601 R615 T622 L625 L626
R629 L633 Q634 N639 I648 G651 T657 Q658 Y659 Y663 F664 E665 V668 D669 E670 V671 L675 T676 L682 R683 V684 E700 N705 D710 L711 G718 W722 A727 R728 L737 L738 A739 P740 E741 C747 L748 I755 S756 F757 R758
G761 V764 Q765 G766 V781 S782 F783 G786 V787 K788 V789 R790 F791 L792 L793 G798 E799 F800 P804 Y808 L816 P817 H818 E819 R820 L821 R822 L823 E828 Y829 H838 L839 V840 P853 C854 P855 T858 I861 V862 L863 L867 E868 R869 I870 R871 L874
A875 I878 H879 E880 L881 W882 A883 L884 T885 R886 I887 W891 T892 Y893 G894 R897 R902 L903 H904 P905 C906 L907 V908 N909 L913 E917 Y920 N921 L922 Q923 M924 S925 G926 K930 T931 L932 L933 A934 L935 G936 C937 H938 M941 E947 L950 K951 K952 T953 K954
L955 Y959 M960 W961 S962 N963 G964 Y965 K966 P967 A968 P969 L970 D971 L972 S973 L977 A980 Q981 V985 L988 A989 E990 H993 N994 Y995 W996 A997 R998 D999 R1000 Q1003 G1004 W1005 S1006 Y1007 S1008 I1013 R1017 N1018 P1019 R1020 L1021 V1022 P1023 Y1024 R1025 L1026 L1027 T1031
N1035 R1036 D1037 C1040 Q1041 A1042 V1043 R1044 T1045 L1046 L1047 Y1051 P1055 P1056 ASP GLN GLU PRO SER GLN VAL GLU N1065 Q1066 W1069 D1070 R1071 V1072 R1073 I1074 F1075 R1076 A1077 E1078 K1079 S1080 Y1081 R1087 E1093 A1094 V1095 G1098 E1099 M1100 R1101 A1105 R1106 P1107 E1114 L1115
G1116 E1119 V1123 F1124 N1125 G1126 H1127 R1128 G1129 Q1130 R1131 W1132 H1133 L1134 P1138 W1143 V1148 M1152 I1153 D1154 L1155 T1159 I1160 I1161 T1177 A1178 F1179 R1180 E1181 I1182 E1183 I1184 L1189 P1190 V1191 C1192 S1193 L1194 G1195 P1196 V1199 G1200 H1201 V1208 A1215 L1219 Q1220
E1221 G1222 F1223 E1224 I1228 N1229 R1232 K1240 S1241 L1242 P1243 Q1244 F1245 V1248 P1249 H1252 E1256 M1260 C1269 L1270 R1271 H1274 R1275 R1290 L1291 S1292 L1293 F1297 T1304 ALA GLY ALA THR PRO LEU ALA PRO PRO GLY LEU GLN PRO PRO ALA GLU ASP GLU ALA
ARG ALA ALA GLU PRO ASP PRO TYR GLU ASN LEU ARG ARG SER ALA GLY GLY TRP GLY GLU ALA GLU GLY LYS GLU GLY THR ALA LYS GLU GLY THR PRO GLY GLY THR PRO GLN PRO GLY VAL GLU ALA GLN PRO VAL ARG ALA GLU ASN GLU LYS ASP ALA THR THR GLU LYS
ASN LYS LYS ARG GLY PHE LEU PHE LYS ALA LYS LYS ALA ALA MET MET THR GLN PRO PRO ALA THR PRO ALA LEU PRO ARG LEU PRO HIS ASP VAL VAL PRO ALA ASP N1420 T1432 Y1433 S1436 V1437 R1438 V1439 G1442 Q1443 E1444 P1445 W1449 V1450 P1455 H1458 M1476 G1477
V1483 H1484 S1485 S1486 L1487 K1488 C1489 M1494 G1497 G1498 D1499 F1500 V1501 S1502 P1503 G1504 GLN GLN GLY R1508 I1509 D1513 L1514 C1518 L1519 V1520 D1521 L1522 L1526 M1527 F1540 K1547 L1548 F1549 P1550 A1551 V1552 T1557 H1558 Q1559 N1560 V1561 I1562 Q1563 F1564 E1565 Q1569 I1572 M1573
P1574 L1575 L1581 R1584 P1587 R1594 L1595 E1596 V1597 Q1598 M1599 L1613 Q1614 V1615 E1616 T1617 R1623 L1624 G1625 W1626 A1627 V1628 Q1629 C1630 Q1631 L1639 N1645 D1649 I1650 D1658 H1663 S1664 H1665 T1666 L1667 R1668 L1669 Y1670 L1676 N1679 Q1691 L1695 L1698 E1699
L1703 P1704 R1708 Y1712 I1716 E1721 S1722 A1723 C1724 R1725 S1726 R1727 M1730 L1731 Y1734 E1741 T1742 R1743 A1744 I1745 F1748 P1749 R1758 P1763 R1772 P1773 P1774 H1775 S1778 P1779 P1780 A1784 A1785 L1786 P1787 ALA ALA GLY VAL ALA E1793 R1797 L1798 I1802

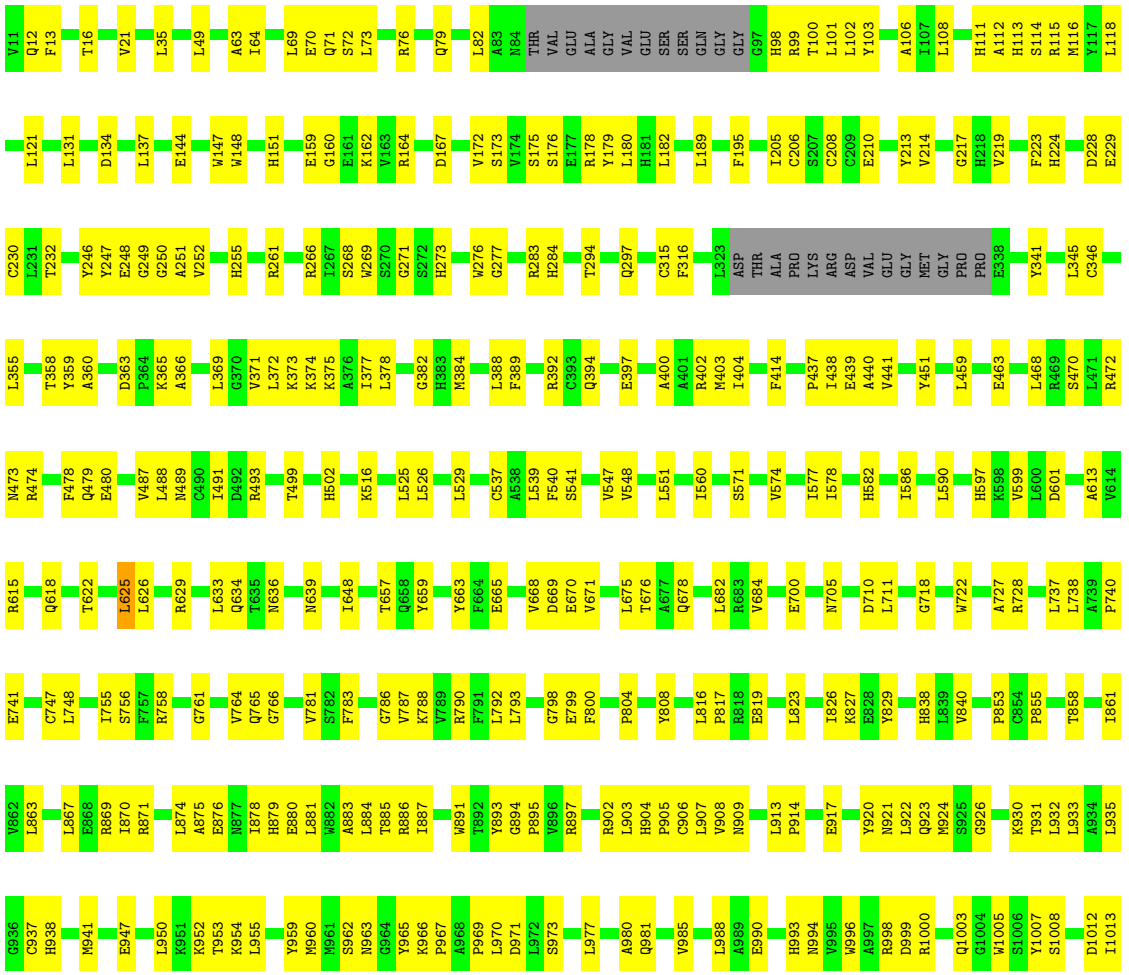


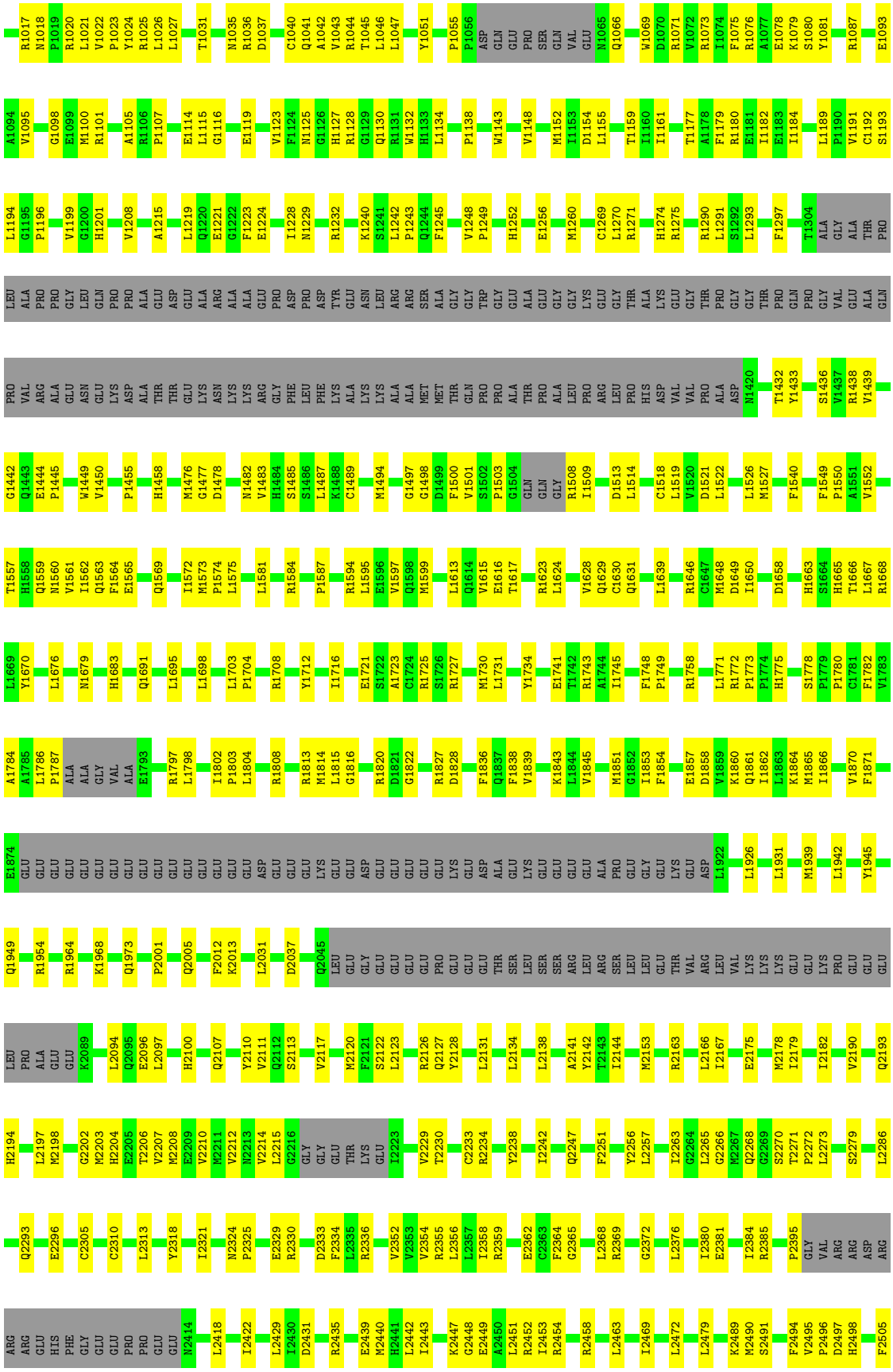


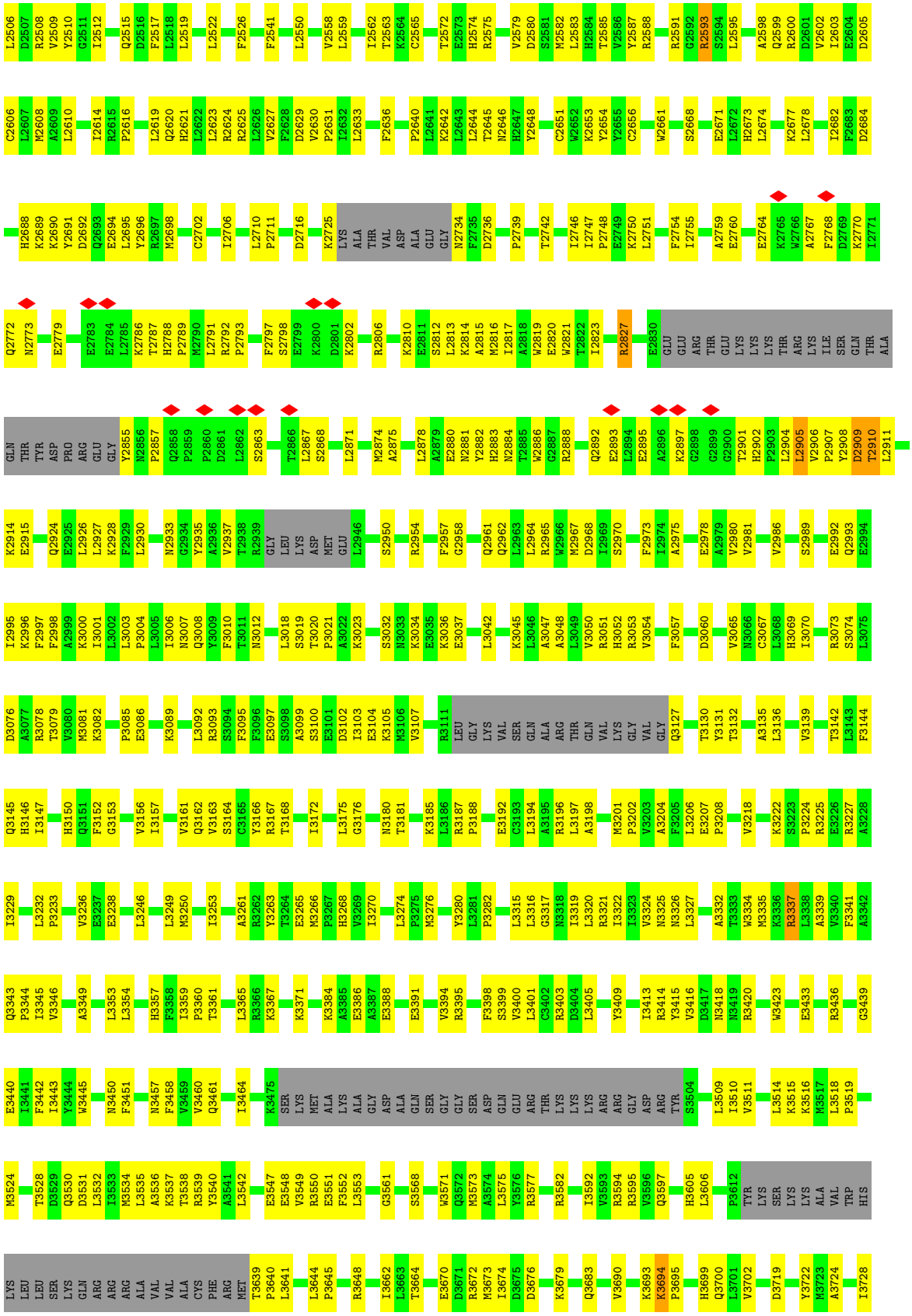


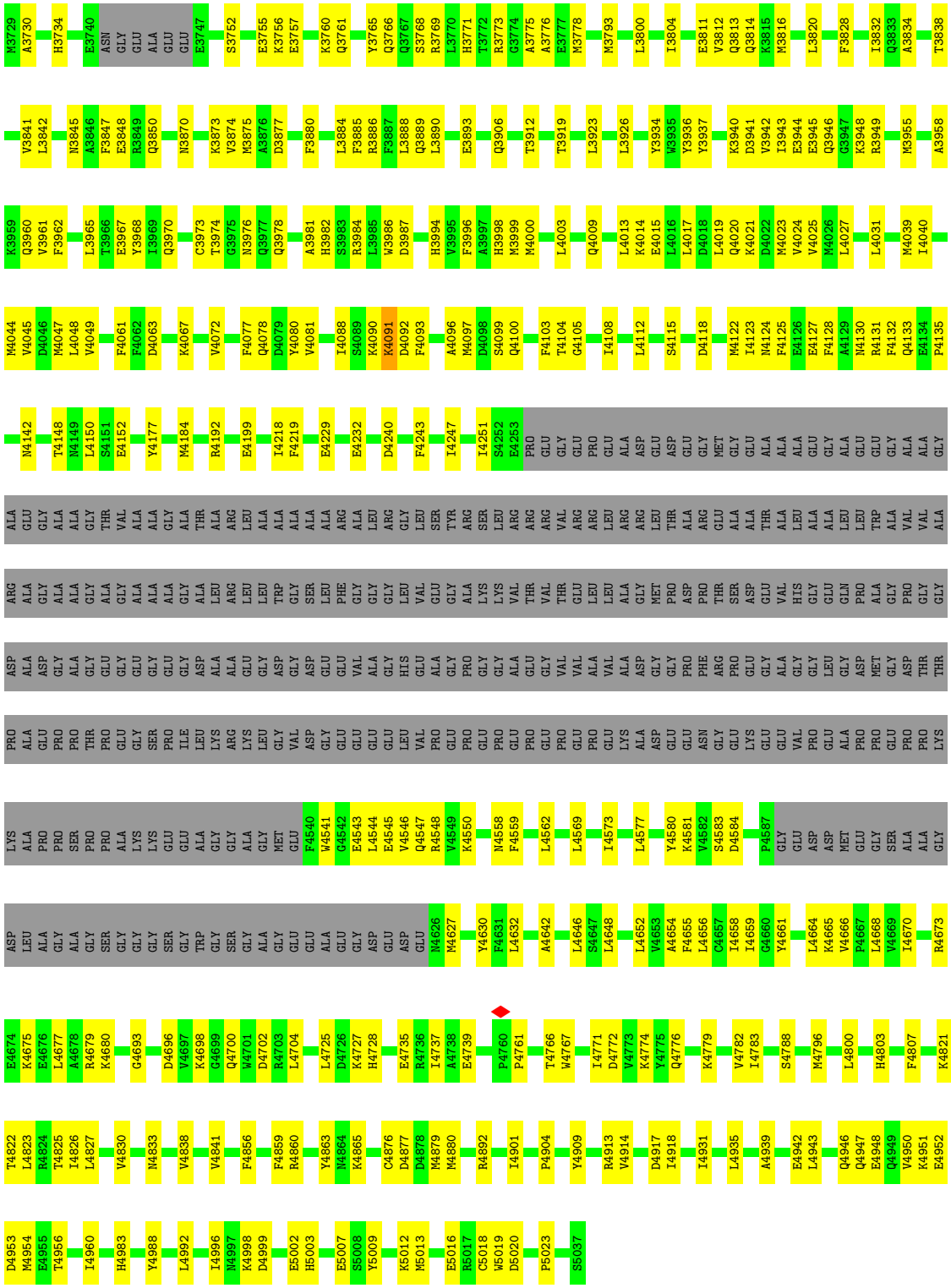
• Molecule 1: Ryanodine receptor 1

Chain G:



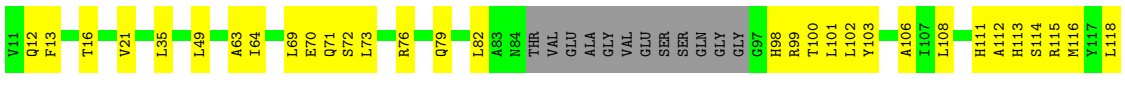


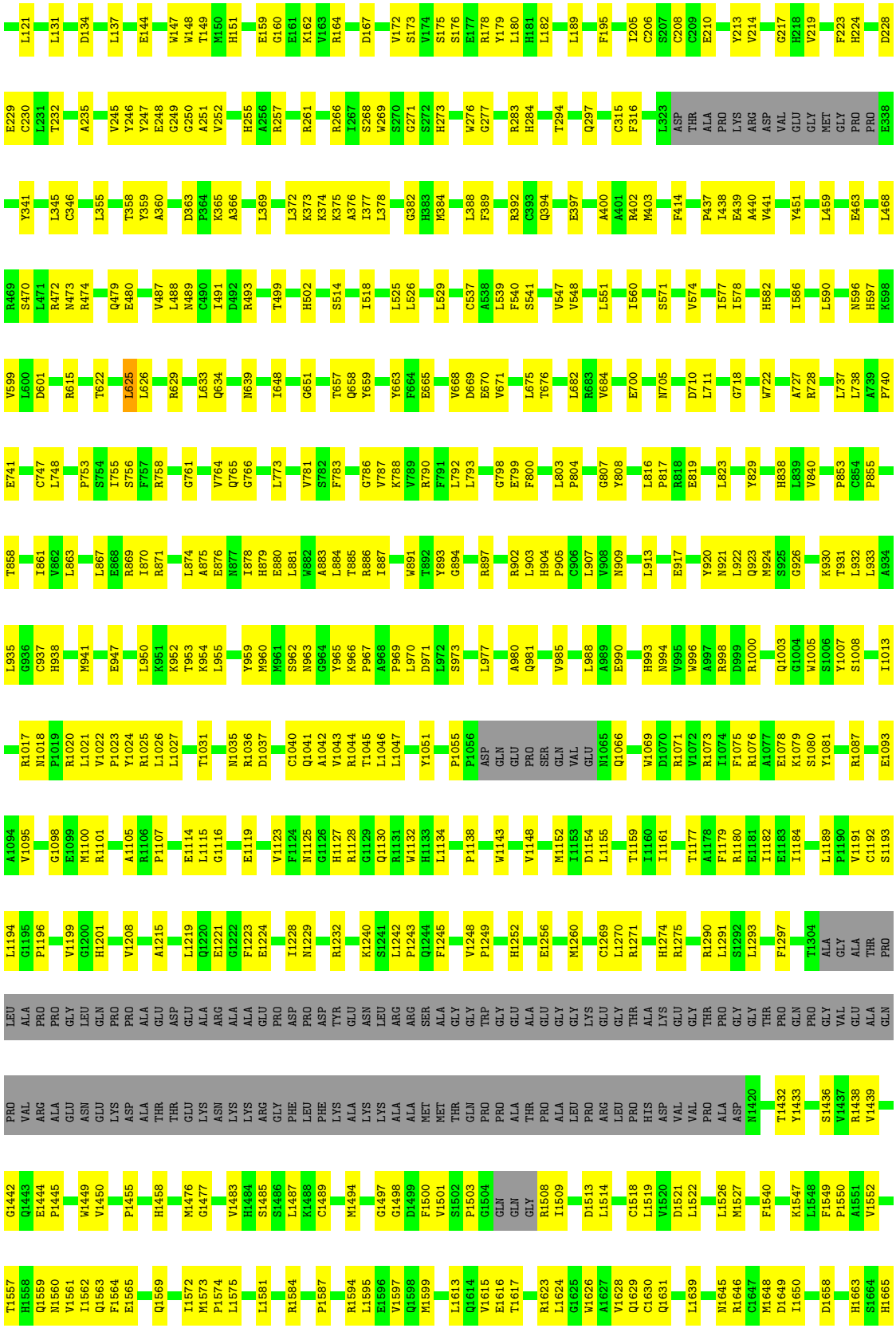


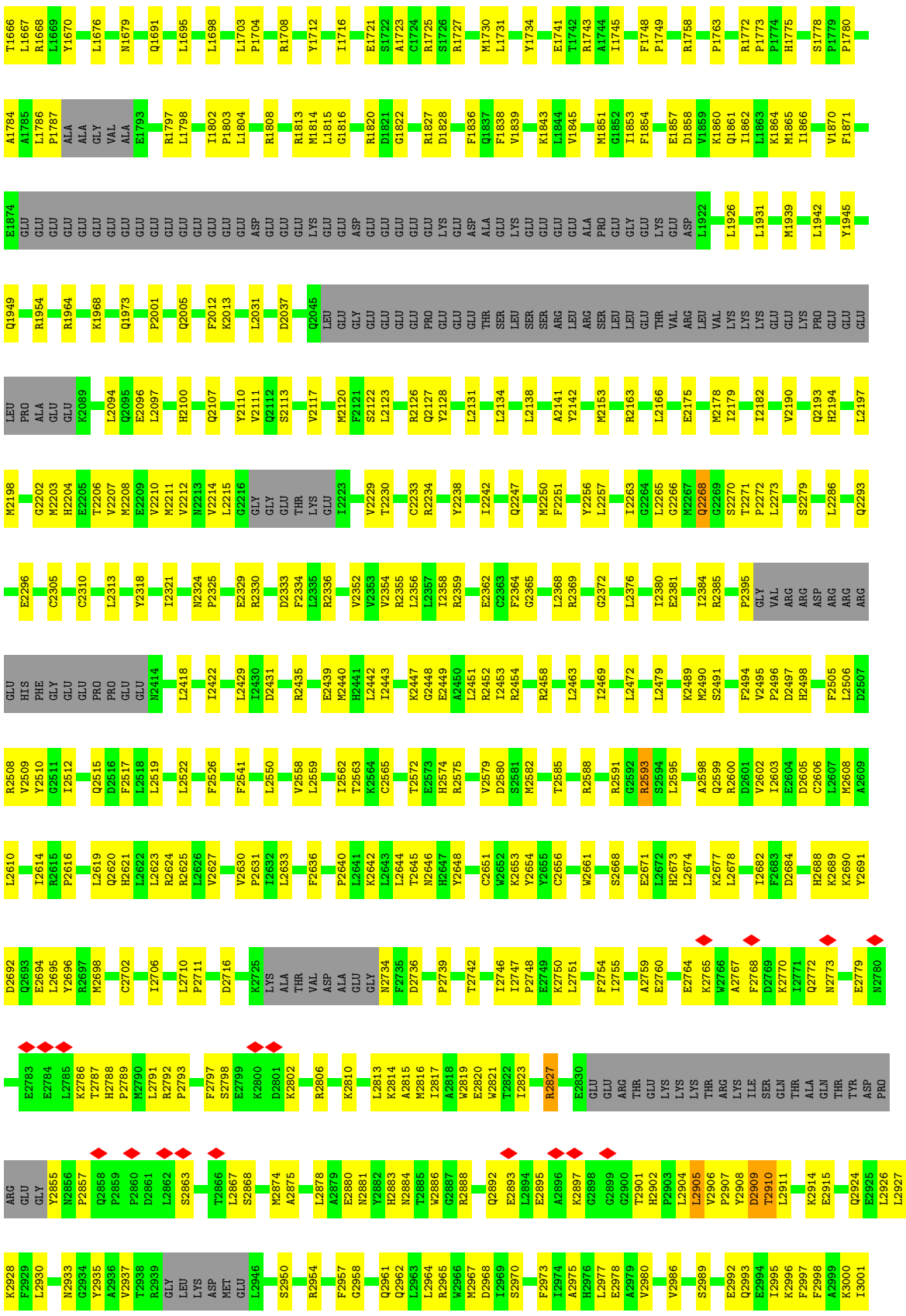


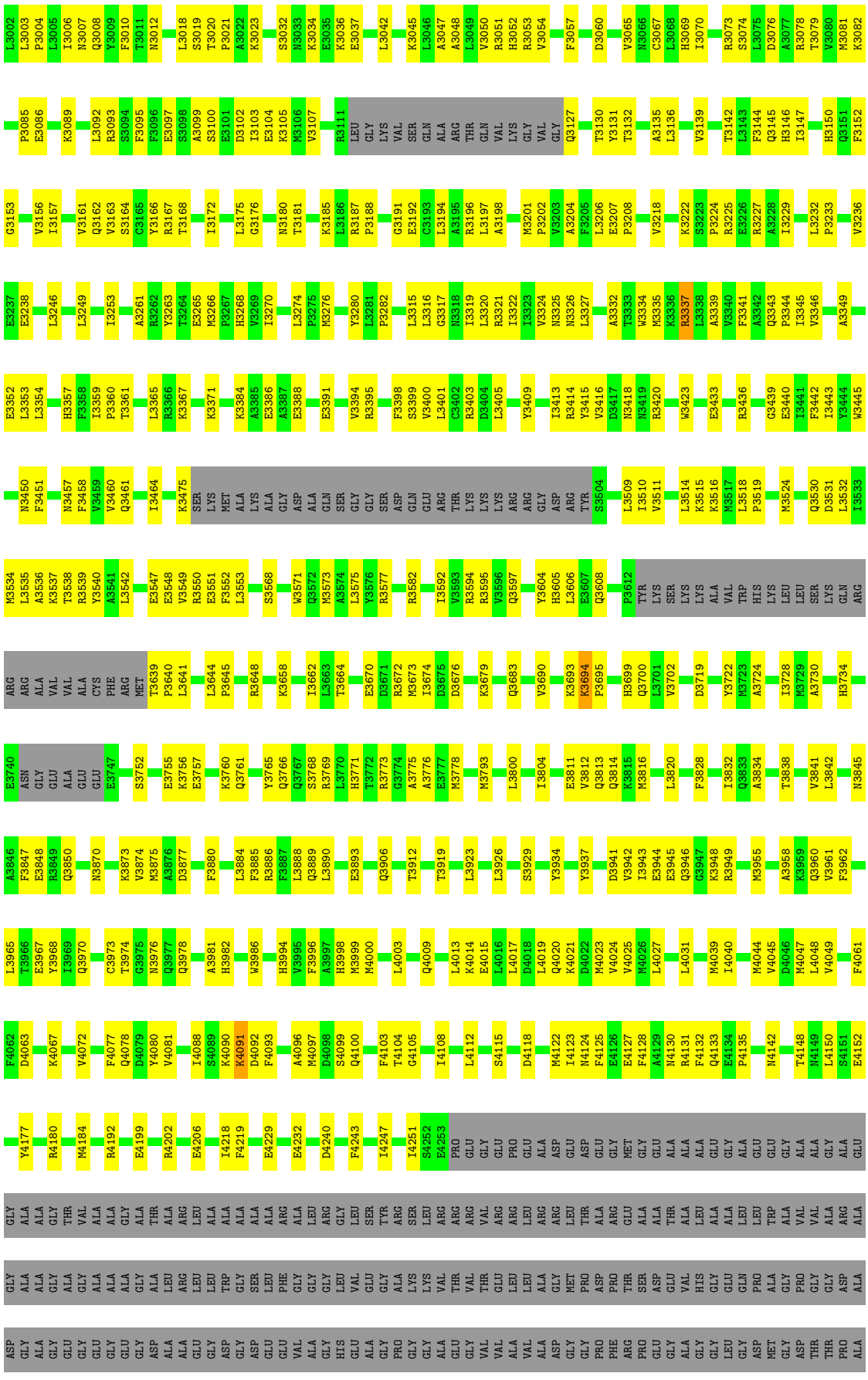
• Molecule 1: Ryanodine receptor 1

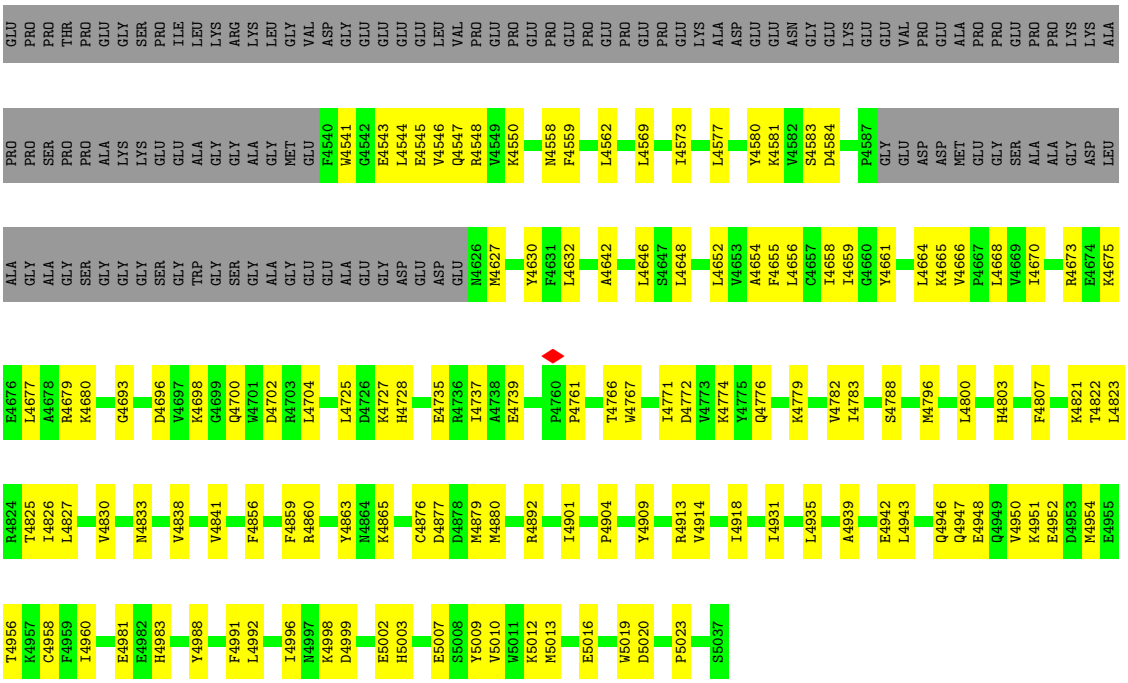
Chain J:





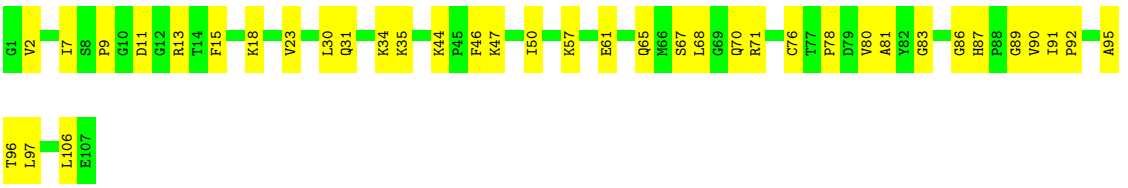






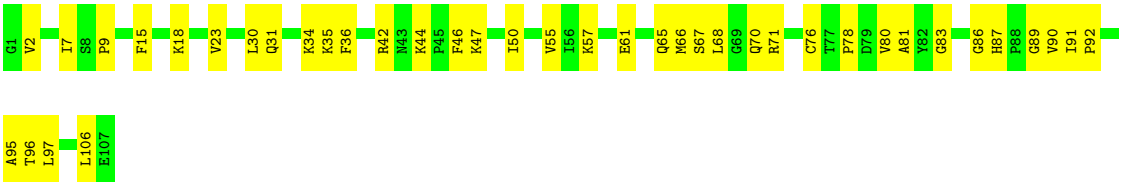
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B

Chain A:



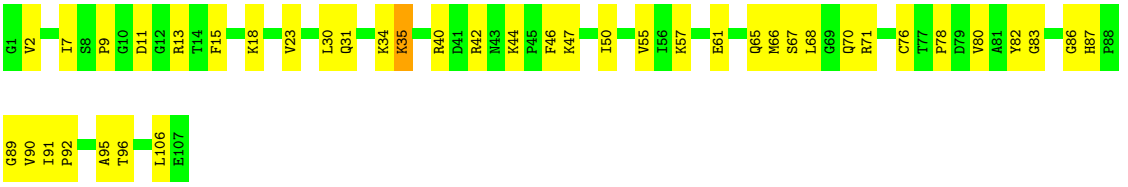
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B

Chain D:



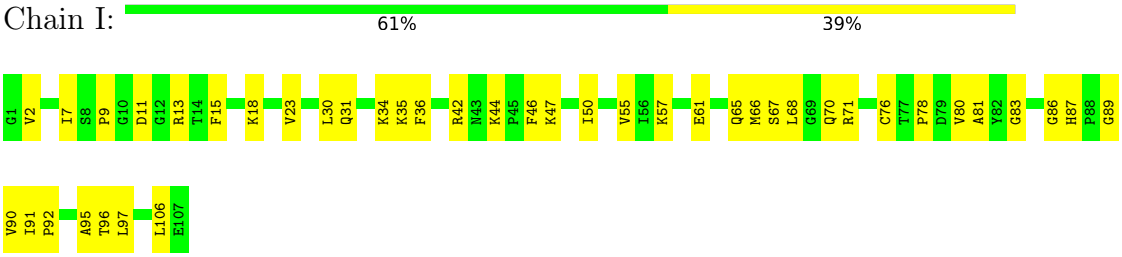
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B

Chain H:



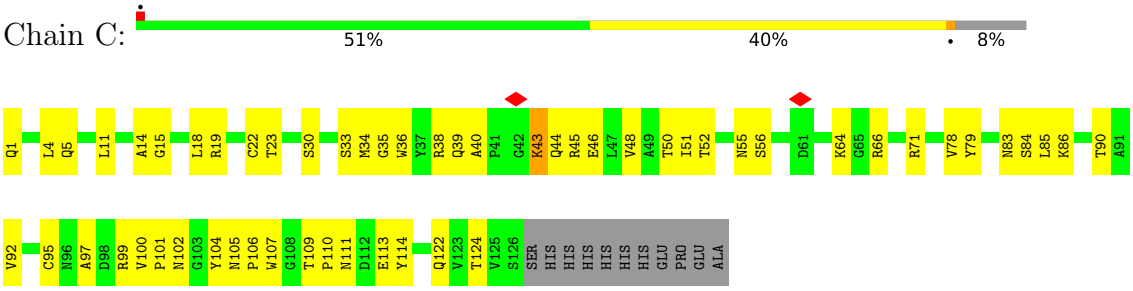
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B

Chain I:



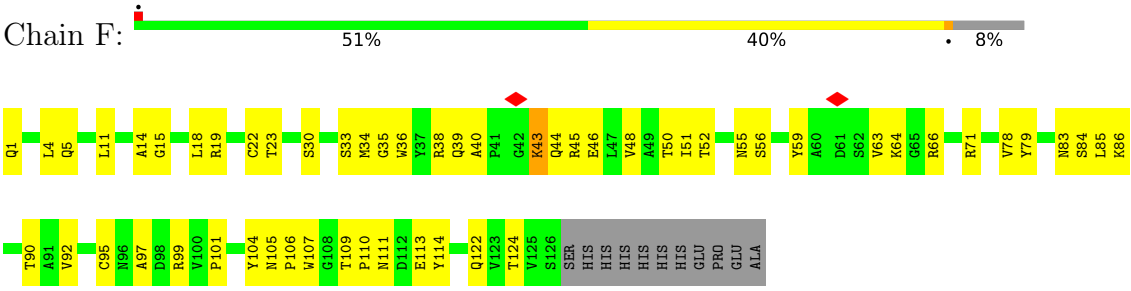
• Molecule 3: Nanobody 9657

Chain C:



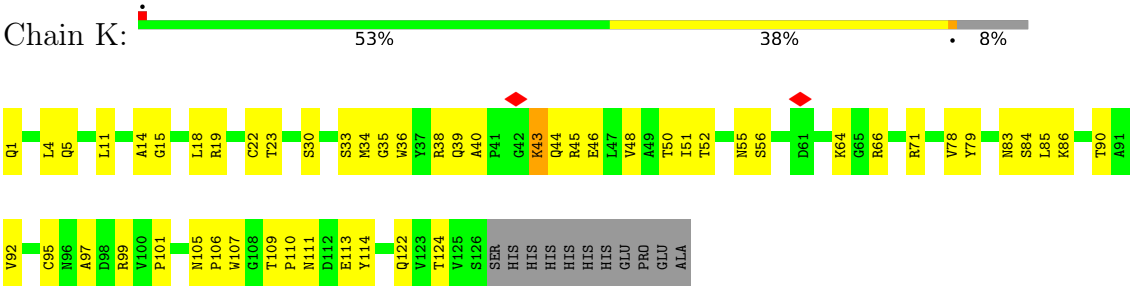
• Molecule 3: Nanobody 9657

Chain F:



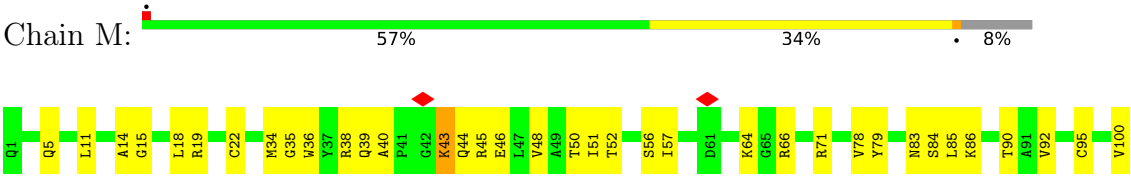
• Molecule 3: Nanobody 9657

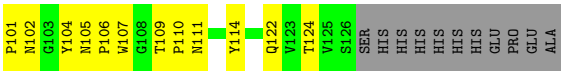
Chain K:



• Molecule 3: Nanobody 9657

Chain M:




P101
N102
G103
Y104
N105
P106
W107
G108
T109
P110
N111
Y114
Q122
V123
T124
V125
S126
SER
HIS
HIS
HIS
HIS
HIS
GLU
PRO
GLU
ALA

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	26815	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	JEOL CRYO ARM 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	5.503	Depositor
Minimum map value	-0.105	Depositor
Average map value	0.053	Depositor
Map value standard deviation	0.121	Depositor
Recommended contour level	0.2	Depositor
Map size (Å)	504.0, 504.0, 504.0	wwPDB
Map dimensions	336, 336, 336	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.5, 1.5, 1.5	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

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	B	0.25	0/34879	0.51	3/47280 (0.0%)
1	E	0.25	0/34879	0.51	3/47280 (0.0%)
1	G	0.25	0/34879	0.51	3/47280 (0.0%)
1	J	0.25	0/34879	0.51	3/47280 (0.0%)
2	A	0.29	0/834	0.57	0/1123
2	D	0.29	0/834	0.57	0/1123
2	H	0.29	0/834	0.57	0/1123
2	I	0.29	0/834	0.57	0/1123
3	C	0.25	0/987	0.54	0/1340
3	F	0.25	0/987	0.54	0/1340
3	K	0.25	0/987	0.54	0/1340
3	M	0.25	0/987	0.54	0/1340
All	All	0.25	0/146800	0.51	12/198972 (0.0%)

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2905	LEU	CA-CB-CG	6.09	129.32	115.30
1	J	2905	LEU	CA-CB-CG	6.09	129.32	115.30
1	E	2905	LEU	CA-CB-CG	6.09	129.31	115.30
1	G	2905	LEU	CA-CB-CG	6.08	129.28	115.30
1	E	1503	PRO	N-CA-CB	5.66	110.09	103.30
1	J	1503	PRO	N-CA-CB	5.64	110.07	103.30
1	G	1503	PRO	N-CA-CB	5.61	110.04	103.30
1	B	1503	PRO	N-CA-CB	5.59	110.01	103.30
1	E	625	LEU	CA-CB-CG	5.06	126.94	115.30
1	B	625	LEU	CA-CB-CG	5.06	126.94	115.30
1	G	625	LEU	CA-CB-CG	5.06	126.94	115.30
1	J	625	LEU	CA-CB-CG	5.04	126.90	115.30

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	B	34103	0	33491	1051	0
1	E	34103	0	33491	1054	0
1	G	34103	0	33491	1068	0
1	J	34103	0	33491	1061	0
2	A	818	0	824	25	0
2	D	818	0	824	29	0
2	H	818	0	824	33	0
2	I	818	0	824	30	0
3	C	967	0	916	51	0
3	F	967	0	916	53	0
3	K	967	0	916	48	0
3	M	967	0	916	44	0
4	B	1	0	0	0	0
4	E	1	0	0	0	0
4	G	1	0	0	0	0
4	J	1	0	0	0	0
5	B	31	0	12	2	0
5	E	31	0	12	1	0
5	G	31	0	12	1	0
5	J	31	0	12	2	0
6	B	14	0	10	1	0
6	E	14	0	10	1	0
6	G	14	0	10	1	0
6	J	14	0	10	1	0
7	B	1	0	0	0	0
7	E	1	0	0	0	0
7	G	1	0	0	0	0
7	J	1	0	0	0	0
All	All	143740	0	141012	4460	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 16.

All (4460) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1616:GLU:HG3	1:G:1629:GLN:HG3	1.58	0.86
1:E:1008:SER:HB2	1:E:1017:ARG:HE	1.41	0.85
1:J:1616:GLU:HG3	1:J:1629:GLN:HG3	1.58	0.85
1:E:2214:VAL:HG13	1:E:2215:LEU:HD12	1.58	0.85
1:J:2214:VAL:HG13	1:J:2215:LEU:HD12	1.58	0.85
1:B:2214:VAL:HG13	1:B:2215:LEU:HD12	1.59	0.85
1:G:2214:VAL:HG13	1:G:2215:LEU:HD12	1.58	0.85
1:G:1008:SER:HB2	1:G:1017:ARG:HE	1.41	0.85
1:G:897:ARG:HD3	1:G:905:PRO:HD3	1.57	0.84
1:B:3315:LEU:HD22	1:B:3345:ILE:HG12	1.60	0.84
1:B:1008:SER:HB2	1:B:1017:ARG:HE	1.41	0.84
1:E:1616:GLU:HG3	1:E:1629:GLN:HG3	1.58	0.83
1:E:3315:LEU:HD22	1:E:3345:ILE:HG12	1.60	0.83
1:J:1008:SER:HB2	1:J:1017:ARG:HE	1.41	0.83
1:B:1616:GLU:HG3	1:B:1629:GLN:HG3	1.58	0.83
1:G:3315:LEU:HD22	1:G:3345:ILE:HG12	1.60	0.83
1:J:223:PHE:HA	1:J:230:CYS:HA	1.61	0.82
1:G:1154:ASP:HB3	1:G:1223:PHE:HE1	1.44	0.82
1:J:3315:LEU:HD22	1:J:3345:ILE:HG12	1.60	0.82
1:G:223:PHE:HA	1:G:230:CYS:HA	1.61	0.82
1:B:1154:ASP:HB3	1:B:1223:PHE:HE1	1.44	0.82
1:B:248:GLU:HB3	1:B:373:LYS:HA	1.61	0.81
1:E:1154:ASP:HB3	1:E:1223:PHE:HE1	1.44	0.81
1:J:1154:ASP:HB3	1:J:1223:PHE:HE1	1.44	0.81
1:E:223:PHE:HA	1:E:230:CYS:HA	1.61	0.81
1:B:223:PHE:HA	1:B:230:CYS:HA	1.61	0.80
1:E:2755:ILE:HD12	1:E:2813:LEU:HG	1.64	0.80
1:B:2755:ILE:HD12	1:B:2813:LEU:HG	1.64	0.80
3:F:111:ASN:HA	3:F:114:TYR:HD2	1.47	0.79
1:J:2755:ILE:HD12	1:J:2813:LEU:HG	1.64	0.79
3:K:111:ASN:HA	3:K:114:TYR:HD2	1.48	0.79
1:G:2755:ILE:HD12	1:G:2813:LEU:HG	1.64	0.79
1:J:880:GLU:HG2	1:J:967:PRO:HB2	1.65	0.79
1:E:3967:GLU:HA	1:E:3970:GLN:HG2	1.64	0.78
1:E:208:CYS:HG	1:E:273:HIS:HD1	1.30	0.78
1:J:3967:GLU:HA	1:J:3970:GLN:HG2	1.64	0.78
1:B:3967:GLU:HA	1:B:3970:GLN:HG2	1.64	0.78
3:M:105:ASN:HD21	3:M:111:ASN:HB2	1.49	0.78
1:G:3967:GLU:HA	1:G:3970:GLN:HG2	1.64	0.78
1:G:880:GLU:HG2	1:G:967:PRO:HB2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:880:GLU:HG2	1:E:967:PRO:HB2	1.65	0.77
3:C:111:ASN:HA	3:C:114:TYR:HD2	1.48	0.77
1:J:116:MET:HG2	1:J:137:LEU:HB3	1.67	0.77
1:G:116:MET:HG2	1:G:137:LEU:HB3	1.67	0.77
1:B:1215:ALA:HA	1:B:1219:LEU:HB3	1.67	0.77
1:B:116:MET:HG2	1:B:137:LEU:HB3	1.67	0.76
1:E:2788:HIS:HB3	1:E:2791:LEU:HB2	1.67	0.76
1:B:208:CYS:HG	1:B:273:HIS:HD1	1.30	0.76
1:G:1215:ALA:HA	1:G:1219:LEU:HB3	1.67	0.76
1:G:1527:MET:HB3	1:G:1540:PHE:HB2	1.68	0.76
1:B:880:GLU:HG2	1:B:967:PRO:HB2	1.65	0.76
1:B:1527:MET:HB3	1:B:1540:PHE:HB2	1.68	0.76
1:E:1527:MET:HB3	1:E:1540:PHE:HB2	1.68	0.76
1:J:1215:ALA:HA	1:J:1219:LEU:HB3	1.67	0.76
1:E:1215:ALA:HA	1:E:1219:LEU:HB3	1.67	0.76
1:E:116:MET:HG2	1:E:137:LEU:HB3	1.67	0.76
1:G:2788:HIS:HB3	1:G:2791:LEU:HB2	1.67	0.76
1:B:2788:HIS:HB3	1:B:2791:LEU:HB2	1.67	0.76
3:F:40:ALA:H	3:F:43:LYS:HE3	1.51	0.76
1:J:980:ALA:HB1	1:J:1055:PRO:HG2	1.68	0.75
1:J:1527:MET:HB3	1:J:1540:PHE:HB2	1.68	0.75
1:G:950:LEU:HD13	1:G:970:LEU:HD21	1.69	0.75
1:J:2788:HIS:HB3	1:J:2791:LEU:HB2	1.67	0.75
1:E:950:LEU:HD13	1:E:970:LEU:HD21	1.69	0.75
1:J:950:LEU:HD13	1:J:970:LEU:HD21	1.69	0.75
3:K:40:ALA:H	3:K:43:LYS:HE3	1.51	0.75
1:E:247:TYR:HB2	1:E:374:LYS:HD2	1.69	0.75
1:E:980:ALA:HB1	1:E:1055:PRO:HG2	1.68	0.75
1:B:950:LEU:HD13	1:B:970:LEU:HD21	1.69	0.75
1:B:980:ALA:HB1	1:B:1055:PRO:HG2	1.68	0.75
1:E:251:ALA:O	1:E:255:HIS:ND1	2.20	0.75
1:J:1079:LYS:NZ	1:J:1107:PRO:O	2.20	0.75
3:C:40:ALA:H	3:C:43:LYS:HE3	1.51	0.75
1:J:251:ALA:O	1:J:255:HIS:ND1	2.20	0.74
1:G:1079:LYS:NZ	1:G:1107:PRO:O	2.20	0.74
1:B:1079:LYS:NZ	1:B:1107:PRO:O	2.20	0.74
3:M:40:ALA:H	3:M:43:LYS:HE3	1.51	0.74
3:K:122:GLN:NE2	3:K:124:THR:OG1	2.21	0.74
1:G:980:ALA:HB1	1:G:1055:PRO:HG2	1.68	0.74
3:M:122:GLN:NE2	3:M:124:THR:OG1	2.21	0.74
1:B:2768:PHE:HB2	1:B:2857:PRO:HD2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2768:PHE:HB2	1:E:2857:PRO:HD2	1.70	0.74
1:G:251:ALA:O	1:G:255:HIS:ND1	2.20	0.74
1:J:2768:PHE:HB2	1:J:2857:PRO:HD2	1.70	0.74
1:G:2768:PHE:HB2	1:G:2857:PRO:HD2	1.70	0.74
1:B:2496:PRO:HG3	1:B:2550:LEU:HD23	1.70	0.74
1:E:1079:LYS:NZ	1:E:1107:PRO:O	2.20	0.73
1:G:973:SER:HA	1:G:1044:ARG:HH21	1.54	0.73
1:B:251:ALA:O	1:B:255:HIS:ND1	2.20	0.73
3:F:122:GLN:NE2	3:F:124:THR:OG1	2.21	0.73
1:E:897:ARG:HD3	1:E:905:PRO:HD3	1.70	0.73
1:E:2496:PRO:HG3	1:E:2550:LEU:HD23	1.70	0.73
1:J:35:LEU:HD22	1:J:189:LEU:HD22	1.71	0.73
1:E:112:ALA:O	1:E:115:ARG:NH1	2.22	0.73
1:E:973:SER:HA	1:E:1044:ARG:HH21	1.53	0.73
1:J:2496:PRO:HG3	1:J:2550:LEU:HD23	1.70	0.73
1:B:35:LEU:HD22	1:B:189:LEU:HD22	1.71	0.73
1:B:112:ALA:O	1:B:115:ARG:NH1	2.22	0.72
1:B:1708:ARG:NH1	1:B:1836:PHE:O	2.22	0.72
1:G:2496:PRO:HG3	1:G:2550:LEU:HD23	1.70	0.72
1:E:1708:ARG:NH1	1:E:1836:PHE:O	2.22	0.72
3:C:122:GLN:NE2	3:C:124:THR:OG1	2.21	0.72
1:E:3324:VAL:HA	1:E:3327:LEU:HD23	1.72	0.72
1:G:35:LEU:HD22	1:G:189:LEU:HD22	1.71	0.72
1:G:2310:CYS:HB3	1:G:2313:LEU:HD23	1.71	0.72
1:J:2310:CYS:HB3	1:J:2313:LEU:HD23	1.71	0.72
1:J:3324:VAL:HA	1:J:3327:LEU:HD23	1.72	0.72
3:K:55:ASN:OD1	3:K:71:ARG:NH1	2.23	0.72
1:J:897:ARG:HD3	1:J:905:PRO:HD3	1.71	0.72
1:B:371:VAL:HG12	1:B:373:LYS:H	1.55	0.72
1:B:897:ARG:HD3	1:B:905:PRO:HD3	1.70	0.72
1:J:1708:ARG:NH1	1:J:1836:PHE:O	2.22	0.72
1:G:1708:ARG:NH1	1:G:1836:PHE:O	2.22	0.72
1:J:973:SER:HA	1:J:1044:ARG:HH21	1.53	0.72
1:B:164:ARG:HB2	1:B:167:ASP:HB2	1.72	0.71
1:B:3324:VAL:HA	1:B:3327:LEU:HD23	1.72	0.71
1:E:35:LEU:HD22	1:E:189:LEU:HD22	1.71	0.71
1:J:112:ALA:O	1:J:115:ARG:NH1	2.22	0.71
1:G:112:ALA:O	1:G:115:ARG:NH1	2.22	0.71
1:J:164:ARG:HB2	1:J:167:ASP:HB2	1.72	0.71
1:J:1095:VAL:HB	1:J:1199:VAL:HG23	1.73	0.71
1:B:973:SER:HA	1:B:1044:ARG:HH21	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3934:TYR:HE1	1:B:3999:MET:SD	2.14	0.71
1:G:164:ARG:HB2	1:G:167:ASP:HB2	1.72	0.71
1:G:1095:VAL:HB	1:G:1199:VAL:HG23	1.73	0.71
1:J:718:GLY:HA3	1:J:737:LEU:HA	1.72	0.71
1:B:1007:TYR:O	1:B:1017:ARG:NH2	2.24	0.71
3:F:55:ASN:OD1	3:F:71:ARG:NH1	2.23	0.71
1:E:164:ARG:HB2	1:E:167:ASP:HB2	1.72	0.71
1:G:2595:LEU:HB2	1:G:2600:ARG:HE	1.55	0.71
1:B:891:TRP:HA	1:B:902:ARG:HB3	1.72	0.71
1:B:1095:VAL:HB	1:B:1199:VAL:HG23	1.73	0.71
1:E:1095:VAL:HB	1:E:1199:VAL:HG23	1.73	0.71
1:G:246:TYR:CG	1:G:373:LYS:HG3	2.25	0.71
1:E:1007:TYR:O	1:E:1017:ARG:NH2	2.24	0.71
1:E:4673:ARG:HH12	1:E:4698:LYS:HB2	1.55	0.71
1:B:4673:ARG:HH12	1:B:4698:LYS:HB2	1.55	0.71
1:E:3934:TYR:HE1	1:E:3999:MET:SD	2.14	0.71
1:E:3981:ALA:HA	1:E:3986:TRP:HZ2	1.55	0.71
1:G:3324:VAL:HA	1:G:3327:LEU:HD23	1.72	0.71
1:B:3695:PRO:HG2	1:B:3700:GLN:HG2	1.73	0.70
1:E:718:GLY:HA3	1:E:737:LEU:HA	1.72	0.70
1:J:2595:LEU:HB2	1:J:2600:ARG:HE	1.55	0.70
1:B:2310:CYS:HB3	1:B:2313:LEU:HD23	1.71	0.70
1:E:3695:PRO:HG2	1:E:3700:GLN:HG2	1.74	0.70
1:G:3156:VAL:HG23	1:G:3157:ILE:HG13	1.73	0.70
1:B:718:GLY:HA3	1:B:737:LEU:HA	1.72	0.70
1:B:3981:ALA:HA	1:B:3986:TRP:HZ2	1.56	0.70
1:G:718:GLY:HA3	1:G:737:LEU:HA	1.72	0.70
1:G:4673:ARG:HH12	1:G:4698:LYS:HB2	1.55	0.70
1:J:891:TRP:HA	1:J:902:ARG:HB3	1.72	0.70
1:J:1020:ARG:HG2	1:J:1031:THR:HG21	1.74	0.70
1:J:2970:SER:HA	1:J:2973:PHE:CE2	2.26	0.70
3:C:55:ASN:OD1	3:C:71:ARG:NH1	2.23	0.70
1:E:2310:CYS:HB3	1:E:2313:LEU:HD23	1.71	0.70
1:J:1727:ARG:HH12	1:J:1851:MET:HE1	1.57	0.70
1:E:891:TRP:HA	1:E:902:ARG:HB3	1.72	0.70
1:G:3934:TYR:HE1	1:G:3999:MET:SD	2.14	0.70
1:G:3981:ALA:HA	1:G:3986:TRP:HZ2	1.55	0.70
1:J:1444:GLU:HG3	1:J:1557:THR:HG21	1.73	0.70
1:B:2970:SER:HA	1:B:2973:PHE:CE2	2.26	0.70
1:G:1020:ARG:HG2	1:G:1031:THR:HG21	1.73	0.70
1:J:3156:VAL:HG23	1:J:3157:ILE:HG13	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3695:PRO:HG2	1:J:3700:GLN:HG2	1.73	0.70
1:B:1444:GLU:HG3	1:B:1557:THR:HG21	1.73	0.70
1:G:1007:TYR:O	1:G:1017:ARG:NH2	2.24	0.70
1:G:3695:PRO:HG2	1:G:3700:GLN:HG2	1.73	0.70
1:J:1007:TYR:O	1:J:1017:ARG:NH2	2.24	0.70
1:J:2673:HIS:HE1	1:J:2677:LYS:HE2	1.56	0.70
1:J:3934:TYR:HE1	1:J:3999:MET:SD	2.14	0.70
1:E:2673:HIS:HE1	1:E:2677:LYS:HE2	1.56	0.69
1:E:2970:SER:HA	1:E:2973:PHE:CE2	2.26	0.69
1:E:3162:GLN:HE21	1:E:3218:VAL:HG13	1.58	0.69
1:G:2970:SER:HA	1:G:2973:PHE:CE2	2.26	0.69
1:G:891:TRP:HA	1:G:902:ARG:HB3	1.72	0.69
1:B:1020:ARG:HG2	1:B:1031:THR:HG21	1.74	0.69
1:B:1870:VAL:HG21	1:B:2097:LEU:HD13	1.75	0.69
1:B:3162:GLN:HE21	1:B:3218:VAL:HG13	1.58	0.69
1:J:3766:GLN:HA	1:J:3769:ARG:HE	1.58	0.69
1:E:102:LEU:HD12	1:E:160:GLY:HA2	1.75	0.69
1:G:1444:GLU:HG3	1:G:1557:THR:HG21	1.73	0.69
1:J:2454:ARG:HD2	1:J:2458:ARG:HH21	1.58	0.69
1:J:4673:ARG:HH12	1:J:4698:LYS:HB2	1.55	0.69
1:E:2754:PHE:HE1	1:E:2933:ASN:HD21	1.41	0.69
1:B:2668:SER:HB3	1:B:2671:GLU:HG3	1.75	0.69
1:E:1727:ARG:HH12	1:E:1851:MET:HE1	1.58	0.69
1:E:2454:ARG:HD2	1:E:2458:ARG:HH21	1.58	0.69
1:B:102:LEU:HD12	1:B:160:GLY:HA2	1.75	0.69
1:B:924:MET:HE1	3:C:106:PRO:HG2	1.75	0.69
1:B:2595:LEU:HB2	1:B:2600:ARG:HE	1.55	0.69
1:B:3413:ILE:HG23	1:B:3516:LYS:HE2	1.75	0.69
1:E:1020:ARG:HG2	1:E:1031:THR:HG21	1.73	0.69
1:E:1444:GLU:HG3	1:E:1557:THR:HG21	1.73	0.69
1:E:2595:LEU:HB2	1:E:2600:ARG:HE	1.56	0.69
1:E:3413:ILE:HG23	1:E:3516:LYS:HE2	1.75	0.69
1:G:2668:SER:HB3	1:G:2671:GLU:HG3	1.75	0.69
1:J:3162:GLN:HE21	1:J:3218:VAL:HG13	1.58	0.69
1:J:3981:ALA:HA	1:J:3986:TRP:HZ2	1.56	0.69
1:B:229:GLU:HA	1:B:249:GLY:HA3	1.75	0.69
1:B:1727:ARG:HH12	1:B:1851:MET:HE1	1.57	0.69
1:G:2754:PHE:HE1	1:G:2933:ASN:HD21	1.41	0.69
1:J:70:GLU:O	1:J:108:LEU:HB3	1.93	0.69
1:B:633:LEU:HB3	1:B:1639:LEU:HD11	1.75	0.69
1:B:2673:HIS:HE1	1:B:2677:LYS:HE2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2454:ARG:HD2	1:G:2458:ARG:HH21	1.58	0.69
1:G:2673:HIS:HE1	1:G:2677:LYS:HE2	1.56	0.69
1:G:3162:GLN:HE21	1:G:3218:VAL:HG13	1.58	0.69
1:B:3156:VAL:HG23	1:B:3157:ILE:HG13	1.73	0.68
1:E:70:GLU:O	1:E:108:LEU:HB3	1.93	0.68
3:C:105:ASN:HD21	3:C:111:ASN:HB2	1.58	0.68
1:B:2454:ARG:HD2	1:B:2458:ARG:HH21	1.58	0.68
1:E:2668:SER:HB3	1:E:2671:GLU:HG3	1.75	0.68
1:G:102:LEU:HD12	1:G:160:GLY:HA2	1.75	0.68
1:G:633:LEU:HB3	1:G:1639:LEU:HD11	1.75	0.68
1:G:758:ARG:HH11	1:G:761:GLY:HA2	1.59	0.68
1:B:1229:ASN:HB3	1:B:1827:ARG:HG3	1.75	0.68
1:G:1870:VAL:HG21	1:G:2097:LEU:HD13	1.75	0.68
1:J:2754:PHE:HE1	1:J:2933:ASN:HD21	1.41	0.68
1:B:758:ARG:HH11	1:B:761:GLY:HA2	1.59	0.68
1:E:3766:GLN:HA	1:E:3769:ARG:HE	1.58	0.68
1:G:229:GLU:HA	1:G:249:GLY:HA3	1.75	0.68
1:G:3413:ILE:HG23	1:G:3516:LYS:HE2	1.75	0.68
1:G:3416:VAL:O	1:G:3420:ARG:HB2	1.94	0.68
1:J:855:PRO:HG3	1:J:998:ARG:HD2	1.76	0.68
1:J:2668:SER:HB3	1:J:2671:GLU:HG3	1.75	0.68
1:E:3156:VAL:HG23	1:E:3157:ILE:HG13	1.73	0.68
1:G:855:PRO:HG3	1:G:998:ARG:HD2	1.76	0.68
1:G:3766:GLN:HA	1:G:3769:ARG:HE	1.58	0.68
1:J:102:LEU:HD12	1:J:160:GLY:HA2	1.75	0.68
3:K:105:ASN:HD21	3:K:111:ASN:HB2	1.59	0.68
1:B:2616:PRO:HA	1:B:2619:LEU:HB3	1.75	0.68
1:G:70:GLU:O	1:G:108:LEU:HB3	1.93	0.68
1:G:371:VAL:HG12	1:G:373:LYS:H	1.59	0.68
1:G:1727:ARG:HH12	1:G:1851:MET:HE1	1.58	0.68
1:J:758:ARG:HH11	1:J:761:GLY:HA2	1.59	0.68
1:E:223:PHE:HB2	1:E:389:PHE:HB3	1.76	0.68
1:G:2620:GLN:HA	1:G:2623:LEU:HD12	1.76	0.68
1:J:1870:VAL:HG21	1:J:2097:LEU:HD13	1.75	0.68
1:J:2616:PRO:HA	1:J:2619:LEU:HB3	1.75	0.68
1:J:3416:VAL:O	1:J:3420:ARG:HB2	1.94	0.68
1:B:670:GLU:HB2	1:B:788:LYS:HB3	1.76	0.68
1:J:247:TYR:HE2	1:J:359:TYR:HA	1.58	0.68
3:F:105:ASN:HD21	3:F:111:ASN:HB2	1.59	0.68
1:B:2620:GLN:HA	1:B:2623:LEU:HD12	1.76	0.68
1:E:2620:GLN:HA	1:E:2623:LEU:HD12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:223:PHE:HB2	1:G:389:PHE:HB3	1.76	0.68
1:G:959:TYR:HB2	1:G:966:LYS:HD3	1.76	0.68
1:J:1229:ASN:HB3	1:J:1827:ARG:HG3	1.75	0.68
1:B:2754:PHE:HE1	1:B:2933:ASN:HD21	1.41	0.67
1:E:229:GLU:HA	1:E:249:GLY:HA3	1.75	0.67
1:E:2616:PRO:HA	1:E:2619:LEU:HB3	1.75	0.67
1:G:670:GLU:HB2	1:G:788:LYS:HB3	1.76	0.67
1:J:3413:ILE:HG23	1:J:3516:LYS:HE2	1.75	0.67
1:B:70:GLU:O	1:B:108:LEU:HB3	1.93	0.67
1:B:223:PHE:HB2	1:B:389:PHE:HB3	1.76	0.67
1:J:670:GLU:HB2	1:J:788:LYS:HB3	1.76	0.67
1:E:1229:ASN:HB3	1:E:1827:ARG:HG3	1.75	0.67
1:J:223:PHE:HB2	1:J:389:PHE:HB3	1.76	0.67
1:E:633:LEU:HB3	1:E:1639:LEU:HD11	1.75	0.67
1:E:1870:VAL:HG21	1:E:2097:LEU:HD13	1.75	0.67
1:J:248:GLU:HB3	1:J:373:LYS:HA	1.75	0.67
1:J:959:TYR:HB2	1:J:966:LYS:HD3	1.76	0.67
3:K:15:GLY:H	3:K:85:LEU:HB2	1.60	0.67
1:B:3766:GLN:HA	1:B:3769:ARG:HE	1.58	0.67
1:E:758:ARG:HH11	1:E:761:GLY:HA2	1.59	0.67
1:B:799:GLU:HB2	1:B:1623:ARG:HH12	1.60	0.67
1:G:1023:PRO:HD2	1:G:1026:LEU:HD22	1.77	0.67
1:G:2616:PRO:HA	1:G:2619:LEU:HB3	1.75	0.67
1:B:959:TYR:HB2	1:B:966:LYS:HD3	1.76	0.67
1:J:1023:PRO:HD2	1:J:1026:LEU:HD22	1.77	0.67
1:B:1023:PRO:HD2	1:B:1026:LEU:HD22	1.77	0.67
1:G:1229:ASN:HB3	1:G:1827:ARG:HG3	1.75	0.67
1:J:229:GLU:HA	1:J:249:GLY:HA3	1.75	0.67
1:J:633:LEU:HB3	1:J:1639:LEU:HD11	1.75	0.67
1:J:3962:PHE:HA	1:J:3965:LEU:HD12	1.76	0.67
1:B:3416:VAL:O	1:B:3420:ARG:HB2	1.94	0.67
1:E:1023:PRO:HD2	1:E:1026:LEU:HD22	1.77	0.67
3:F:15:GLY:H	3:F:85:LEU:HB2	1.60	0.67
1:E:855:PRO:HG3	1:E:998:ARG:HD2	1.76	0.66
1:E:2673:HIS:CE1	1:E:2677:LYS:HE2	2.31	0.66
1:E:3416:VAL:O	1:E:3420:ARG:HB2	1.94	0.66
1:J:247:TYR:HB2	1:J:374:LYS:HB2	1.77	0.66
1:E:670:GLU:HB2	1:E:788:LYS:HB3	1.76	0.66
1:G:4003:LEU:HD13	1:G:4013:LEU:HA	1.78	0.66
1:G:2883:HIS:NE2	1:G:2906:VAL:O	2.28	0.66
1:J:2620:GLN:HA	1:J:2623:LEU:HD12	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4003:LEU:HD13	1:B:4013:LEU:HA	1.78	0.66
1:E:3962:PHE:HA	1:E:3965:LEU:HD12	1.78	0.66
3:C:15:GLY:H	3:C:85:LEU:HB2	1.60	0.66
1:G:799:GLU:HB2	1:G:1623:ARG:HH12	1.60	0.66
3:C:34:MET:HG2	3:C:78:VAL:HG21	1.78	0.66
1:B:855:PRO:HG3	1:B:998:ARG:HD2	1.76	0.66
1:B:2673:HIS:CE1	1:B:2677:LYS:HE2	2.31	0.66
1:G:2673:HIS:CE1	1:G:2677:LYS:HE2	2.31	0.66
1:G:3594:ARG:NH2	1:G:3597:GLN:OE1	2.29	0.66
1:B:1519:LEU:HD11	1:B:1572:ILE:HD13	1.78	0.66
1:E:799:GLU:HB2	1:E:1623:ARG:HH12	1.60	0.66
1:J:1256:GLU:HB2	1:J:1275:ARG:HE	1.61	0.66
1:B:548:VAL:HG21	1:B:582:HIS:HD2	1.61	0.66
1:J:799:GLU:HB2	1:J:1623:ARG:HH12	1.60	0.66
1:J:2673:HIS:CE1	1:J:2677:LYS:HE2	2.31	0.66
1:B:3962:PHE:HA	1:B:3965:LEU:HD12	1.77	0.66
1:E:195:PHE:HZ	1:J:2359:ARG:HG3	1.61	0.66
1:E:959:TYR:HB2	1:E:966:LYS:HD3	1.76	0.66
1:G:1679:ASN:ND2	1:G:1797:ARG:O	2.29	0.66
1:G:2624:ARG:NH1	1:G:2910:THR:O	2.29	0.66
1:E:548:VAL:HG21	1:E:582:HIS:HD2	1.61	0.66
1:G:858:THR:HG21	1:G:931:THR:HG22	1.78	0.66
1:J:3923:LEU:HD22	1:J:3965:LEU:HD11	1.79	0.66
1:G:3962:PHE:HA	1:G:3965:LEU:HD12	1.77	0.65
1:B:246:TYR:HB3	1:B:373:LYS:O	1.95	0.65
1:B:2359:ARG:HG3	1:G:195:PHE:HZ	1.62	0.65
1:G:1256:GLU:HB2	1:G:1275:ARG:HE	1.61	0.65
1:J:663:TYR:OH	1:J:758:ARG:NH2	2.30	0.65
3:M:15:GLY:H	3:M:85:LEU:HB2	1.60	0.65
1:E:2624:ARG:NH1	1:E:2910:THR:O	2.29	0.65
1:G:590:LEU:O	1:G:1594:ARG:NH2	2.29	0.65
1:G:663:TYR:OH	1:G:758:ARG:NH2	2.30	0.65
1:J:4003:LEU:HD13	1:J:4013:LEU:HA	1.78	0.65
1:B:3923:LEU:HD22	1:B:3965:LEU:HD11	1.79	0.65
1:E:479:GLN:HE21	1:E:539:LEU:HD11	1.62	0.65
1:E:953:THR:HB	1:E:969:PRO:HG2	1.78	0.65
1:G:548:VAL:HG21	1:G:582:HIS:HD2	1.61	0.65
1:G:1519:LEU:HD11	1:G:1572:ILE:HD13	1.78	0.65
1:E:3965:LEU:HA	1:E:3968:TYR:CD2	2.31	0.65
1:G:3923:LEU:HD22	1:G:3965:LEU:HD11	1.79	0.65
1:E:858:THR:HG21	1:E:931:THR:HG22	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:904:HIS:HD2	1:E:907:LEU:H	1.45	0.65
1:E:4003:LEU:HD13	1:E:4013:LEU:HA	1.78	0.65
1:G:144:GLU:HG3	1:G:175:SER:HB3	1.79	0.65
1:J:2519:LEU:HA	1:J:2522:LEU:HD12	1.79	0.65
1:J:3594:ARG:NH2	1:J:3597:GLN:OE1	2.29	0.65
1:B:4546:VAL:HG22	1:B:4550:LYS:HE3	1.78	0.65
1:E:3594:ARG:NH2	1:E:3597:GLN:OE1	2.29	0.65
1:G:3965:LEU:HA	1:G:3968:TYR:CD2	2.31	0.65
1:J:590:LEU:O	1:J:1594:ARG:NH2	2.29	0.65
1:J:924:MET:HE1	3:K:106:PRO:HG2	1.78	0.65
1:J:2624:ARG:NH1	1:J:2910:THR:O	2.29	0.65
2:I:68:LEU:HD13	2:I:106:LEU:HG	1.79	0.65
1:B:479:GLN:HE21	1:B:539:LEU:HD11	1.62	0.65
1:E:590:LEU:O	1:E:1594:ARG:NH2	2.29	0.65
1:E:663:TYR:OH	1:E:758:ARG:NH2	2.29	0.65
1:J:2883:HIS:NE2	1:J:2906:VAL:O	2.28	0.65
2:H:68:LEU:HD13	2:H:106:LEU:HG	1.79	0.65
3:K:34:MET:HG2	3:K:78:VAL:HG21	1.77	0.65
1:B:663:TYR:OH	1:B:758:ARG:NH2	2.30	0.65
1:B:2883:HIS:NE2	1:B:2906:VAL:O	2.28	0.65
1:E:1679:ASN:ND2	1:E:1797:ARG:O	2.29	0.65
1:G:479:GLN:HE21	1:G:539:LEU:HD11	1.62	0.65
1:J:904:HIS:HD2	1:J:907:LEU:H	1.45	0.65
2:A:68:LEU:HD13	2:A:106:LEU:HG	1.79	0.65
1:B:246:TYR:CD1	1:B:375:LYS:HA	2.31	0.65
1:B:590:LEU:O	1:B:1594:ARG:NH2	2.29	0.65
1:B:2128:TYR:OH	1:B:3672:ARG:NH1	2.30	0.65
1:B:3594:ARG:NH2	1:B:3597:GLN:OE1	2.29	0.65
1:G:4546:VAL:HG22	1:G:4550:LYS:HE3	1.78	0.65
1:J:1519:LEU:HD11	1:J:1572:ILE:HD13	1.78	0.65
1:J:3965:LEU:HA	1:J:3968:TYR:CD2	2.32	0.65
1:E:1154:ASP:HB3	1:E:1223:PHE:CE1	2.31	0.64
1:G:1617:THR:HG22	1:G:1628:VAL:HG13	1.79	0.64
1:J:858:THR:HG21	1:J:931:THR:HG22	1.78	0.64
1:J:1679:ASN:ND2	1:J:1797:ARG:O	2.29	0.64
1:J:2746:ILE:HA	1:J:2814:LYS:HE3	1.79	0.64
1:B:953:THR:HB	1:B:969:PRO:HG2	1.78	0.64
1:B:1256:GLU:HB2	1:B:1275:ARG:HE	1.61	0.64
1:E:1256:GLU:HB2	1:E:1275:ARG:HE	1.61	0.64
1:E:2519:LEU:HA	1:E:2522:LEU:HD12	1.79	0.64
1:J:2128:TYR:OH	1:J:3672:ARG:NH1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4546:VAL:HG22	1:J:4550:LYS:HE3	1.78	0.64
2:D:68:LEU:HD13	2:D:106:LEU:HG	1.79	0.64
1:B:1804:LEU:HD12	1:B:1853:ILE:HG13	1.80	0.64
1:E:601:ASP:OD1	1:E:1668:ARG:NH2	2.30	0.64
1:E:1617:THR:HG22	1:E:1628:VAL:HG13	1.79	0.64
1:G:601:ASP:OD1	1:G:1668:ARG:NH2	2.31	0.64
1:G:2519:LEU:HA	1:G:2522:LEU:HD12	1.79	0.64
1:G:2624:ARG:HG3	1:G:2625:ARG:HE	1.62	0.64
1:J:479:GLN:HE21	1:J:539:LEU:HD11	1.62	0.64
1:J:548:VAL:HG21	1:J:582:HIS:HD2	1.61	0.64
1:B:144:GLU:HG3	1:B:175:SER:HB3	1.79	0.64
1:B:365:LYS:HE2	1:B:369:LEU:HD21	1.79	0.64
1:E:2128:TYR:OH	1:E:3672:ARG:NH1	2.30	0.64
1:E:2883:HIS:NE2	1:E:2906:VAL:O	2.28	0.64
2:A:30:LEU:HD11	2:A:92:PRO:HD2	1.79	0.64
1:B:669:ASP:HA	1:B:741:GLU:H	1.63	0.64
1:E:2591:ARG:NH1	1:E:2636:PHE:HB2	2.13	0.64
1:G:2746:ILE:HA	1:G:2814:LYS:HE3	1.79	0.64
2:I:30:LEU:HD11	2:I:92:PRO:HD2	1.79	0.64
1:B:1679:ASN:ND2	1:B:1797:ARG:O	2.29	0.64
1:E:400:ALA:HA	1:E:403:MET:SD	2.38	0.64
1:E:669:ASP:HA	1:E:741:GLU:H	1.63	0.64
1:E:2624:ARG:HG3	1:E:2625:ARG:HE	1.62	0.64
1:E:4546:VAL:HG22	1:E:4550:LYS:HE3	1.78	0.64
1:G:365:LYS:HE2	1:G:369:LEU:HD21	1.80	0.64
1:G:1804:LEU:HD12	1:G:1853:ILE:HG13	1.80	0.64
2:H:30:LEU:HD11	2:H:92:PRO:HD2	1.79	0.64
1:B:858:THR:HG21	1:B:931:THR:HG22	1.78	0.64
1:B:2591:ARG:NH1	1:B:2636:PHE:HB2	2.13	0.64
1:B:2710:LEU:HD12	1:B:2711:PRO:HD2	1.80	0.64
1:B:4072:VAL:O	1:B:4078:GLN:NE2	2.31	0.64
1:E:788:LYS:HD3	1:E:1629:GLN:HB3	1.80	0.64
1:G:400:ALA:HA	1:G:403:MET:SD	2.38	0.64
1:G:1101:ARG:HH12	1:G:1114:GLU:HB3	1.63	0.64
1:G:2591:ARG:HH11	1:G:2636:PHE:HB2	1.63	0.64
1:J:144:GLU:HG3	1:J:175:SER:HB3	1.79	0.64
1:J:601:ASP:OD1	1:J:1668:ARG:NH2	2.31	0.64
1:J:953:THR:HB	1:J:969:PRO:HG2	1.78	0.64
1:J:2624:ARG:HG3	1:J:2625:ARG:HE	1.62	0.64
1:J:4545:GLU:OE1	1:J:4548:ARG:NE	2.27	0.64
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:788:LYS:HD3	1:B:1629:GLN:HB3	1.80	0.64
1:E:144:GLU:HG3	1:E:175:SER:HB3	1.79	0.64
1:G:953:THR:HB	1:G:969:PRO:HG2	1.78	0.64
1:J:294:THR:HG23	1:J:297:GLN:H	1.63	0.64
3:M:34:MET:HG2	3:M:78:VAL:HG21	1.79	0.64
1:B:195:PHE:HZ	1:E:2359:ARG:HG3	1.63	0.64
1:B:904:HIS:HD2	1:B:907:LEU:H	1.45	0.64
1:B:2624:ARG:HG3	1:B:2625:ARG:HE	1.62	0.64
1:B:3965:LEU:HA	1:B:3968:TYR:CD2	2.32	0.64
1:E:3048:ALA:O	1:E:3052:HIS:ND1	2.31	0.64
1:G:669:ASP:HA	1:G:741:GLU:H	1.63	0.64
1:G:1249:PRO:HG2	1:G:1252:HIS:HB2	1.80	0.64
1:J:360:ALA:HA	1:J:377:ILE:HD13	1.78	0.64
1:B:3048:ALA:O	1:B:3052:HIS:ND1	2.31	0.64
1:E:247:TYR:HE2	1:E:359:TYR:HA	1.62	0.64
1:E:3923:LEU:HD22	1:E:3965:LEU:HD11	1.80	0.64
1:G:788:LYS:HD3	1:G:1629:GLN:HB3	1.80	0.64
2:D:30:LEU:HD11	2:D:92:PRO:HD2	1.79	0.64
1:B:675:LEU:HG	1:B:676:THR:HG23	1.80	0.63
1:B:2624:ARG:NH1	1:B:2910:THR:O	2.29	0.63
1:B:2746:ILE:HA	1:B:2814:LYS:HE3	1.79	0.63
1:E:924:MET:HE1	3:F:106:PRO:HG2	1.80	0.63
1:G:1154:ASP:HB3	1:G:1223:PHE:CE1	2.31	0.63
1:J:1617:THR:HG22	1:J:1628:VAL:HG13	1.79	0.63
1:J:2813:LEU:HA	1:J:2816:MET:HG3	1.80	0.63
1:B:659:TYR:HB2	1:B:1017:ARG:HH22	1.63	0.63
1:B:2684:ASP:O	1:B:2688:HIS:ND1	2.31	0.63
1:E:2684:ASP:O	1:E:2688:HIS:ND1	2.31	0.63
1:J:669:ASP:HA	1:J:741:GLU:H	1.63	0.63
1:J:2591:ARG:HH11	1:J:2636:PHE:HB2	1.63	0.63
1:B:294:THR:HG23	1:B:297:GLN:H	1.63	0.63
1:B:2591:ARG:HH11	1:B:2636:PHE:HB2	1.63	0.63
1:E:1519:LEU:HD11	1:E:1572:ILE:HD13	1.78	0.63
1:G:2128:TYR:OH	1:G:3672:ARG:NH1	2.30	0.63
1:G:2813:LEU:HA	1:G:2816:MET:HG3	1.80	0.63
1:J:1154:ASP:HB3	1:J:1223:PHE:CE1	2.31	0.63
3:C:30:SER:HB3	3:C:99:ARG:HB3	1.79	0.63
3:F:34:MET:HG2	3:F:78:VAL:HG21	1.79	0.63
1:B:952:LYS:HA	1:B:970:LEU:HA	1.81	0.63
1:B:1617:THR:HG22	1:B:1628:VAL:HG13	1.79	0.63
1:B:2519:LEU:HA	1:B:2522:LEU:HD12	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:294:THR:HG23	1:E:297:GLN:H	1.63	0.63
1:G:294:THR:HG23	1:G:297:GLN:H	1.63	0.63
1:G:2710:LEU:HD12	1:G:2711:PRO:HD2	1.80	0.63
1:J:2651:CYS:HB3	1:J:2654:TYR:HB3	1.81	0.63
1:E:82:LEU:HD11	1:E:144:GLU:HB3	1.81	0.63
1:E:659:TYR:HB2	1:E:1017:ARG:HH22	1.63	0.63
1:E:2591:ARG:HH11	1:E:2636:PHE:HB2	1.63	0.63
1:E:2651:CYS:HB3	1:E:2654:TYR:HB3	1.81	0.63
1:J:246:TYR:CD1	1:J:375:LYS:HA	2.33	0.63
1:J:952:LYS:HA	1:J:970:LEU:HA	1.81	0.63
1:J:2642:LYS:HE3	1:J:2646:ASN:HD21	1.63	0.63
1:J:2684:ASP:O	1:J:2688:HIS:ND1	2.31	0.63
1:B:246:TYR:HD1	1:B:375:LYS:HA	1.63	0.63
1:B:400:ALA:HA	1:B:403:MET:SD	2.38	0.63
1:B:1101:ARG:HH12	1:B:1114:GLU:HB3	1.63	0.63
1:E:248:GLU:HB3	1:E:373:LYS:HA	1.79	0.63
1:E:952:LYS:HA	1:E:970:LEU:HA	1.81	0.63
1:E:2642:LYS:HE3	1:E:2646:ASN:HD21	1.64	0.63
1:E:2710:LEU:HD12	1:E:2711:PRO:HD2	1.80	0.63
1:J:82:LEU:HD11	1:J:144:GLU:HB3	1.81	0.63
1:J:659:TYR:HB2	1:J:1017:ARG:HH22	1.63	0.63
1:J:788:LYS:HD3	1:J:1629:GLN:HB3	1.80	0.63
1:J:4072:VAL:O	1:J:4078:GLN:NE2	2.31	0.63
1:G:2591:ARG:NH1	1:G:2636:PHE:HB2	2.13	0.63
1:G:3048:ALA:O	1:G:3052:HIS:ND1	2.31	0.63
1:J:4023:MET:O	1:J:4027:LEU:HG	1.99	0.63
1:E:1087:ARG:HB3	1:E:1223:PHE:CD1	2.34	0.63
1:E:1179:PHE:HB2	1:E:1182:ILE:HD11	1.81	0.63
1:G:952:LYS:HA	1:G:970:LEU:HA	1.81	0.63
1:G:2359:ARG:HG3	1:J:195:PHE:HZ	1.62	0.63
1:G:4072:VAL:O	1:G:4078:GLN:NE2	2.31	0.63
1:J:400:ALA:HA	1:J:403:MET:SD	2.38	0.63
1:J:1249:PRO:HG2	1:J:1252:HIS:HB2	1.80	0.63
1:J:2591:ARG:NH1	1:J:2636:PHE:HB2	2.13	0.63
1:G:659:TYR:HB2	1:G:1017:ARG:HH22	1.63	0.63
1:G:2684:ASP:O	1:G:2688:HIS:ND1	2.31	0.63
1:J:1101:ARG:HH12	1:J:1114:GLU:HB3	1.63	0.63
1:J:1804:LEU:HD12	1:J:1853:ILE:HG13	1.80	0.63
1:J:3645:PRO:HD2	1:J:3648:ARG:HE	1.64	0.63
1:E:1249:PRO:HG2	1:E:1252:HIS:HB2	1.80	0.62
1:E:1804:LEU:HD12	1:E:1853:ILE:HG13	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4127:GLU:OE1	1:E:4131:ARG:NH2	2.32	0.62
1:G:4023:MET:O	1:G:4027:LEU:HG	1.99	0.62
1:J:365:LYS:HE2	1:J:369:LEU:HD21	1.79	0.62
1:J:1155:LEU:HD22	1:J:1184:ILE:HG12	1.81	0.62
1:B:1087:ARG:HB3	1:B:1223:PHE:CD1	2.34	0.62
1:B:4545:GLU:OE1	1:B:4548:ARG:NE	2.27	0.62
1:G:629:ARG:HH21	2:H:90:VAL:HG13	1.63	0.62
1:G:897:ARG:HH22	3:M:104:TYR:HB3	1.63	0.62
1:J:675:LEU:HG	1:J:676:THR:HG23	1.80	0.62
1:J:1179:PHE:HB2	1:J:1182:ILE:HD11	1.80	0.62
3:C:11:LEU:HD13	3:C:124:THR:HB	1.81	0.62
3:M:11:LEU:HD13	3:M:124:THR:HB	1.81	0.62
1:B:2651:CYS:HB3	1:B:2654:TYR:HB3	1.81	0.62
1:E:2746:ILE:HA	1:E:2814:LYS:HE3	1.79	0.62
1:J:2710:LEU:HD12	1:J:2711:PRO:HD2	1.80	0.62
1:B:629:ARG:HH21	2:A:90:VAL:HG13	1.65	0.62
1:E:3645:PRO:HD2	1:E:3648:ARG:HE	1.64	0.62
1:G:3645:PRO:HD2	1:G:3648:ARG:HE	1.64	0.62
1:J:1087:ARG:HB3	1:J:1223:PHE:CD1	2.34	0.62
1:J:2599:GLN:O	1:J:2603:ILE:HG12	2.00	0.62
1:J:3048:ALA:O	1:J:3052:HIS:ND1	2.31	0.62
1:B:1179:PHE:HB2	1:B:1182:ILE:HD11	1.81	0.62
1:B:1249:PRO:HG2	1:B:1252:HIS:HB2	1.80	0.62
1:E:1101:ARG:HH12	1:E:1114:GLU:HB3	1.63	0.62
1:E:1155:LEU:HD22	1:E:1184:ILE:HG12	1.81	0.62
1:E:2599:GLN:O	1:E:2603:ILE:HG12	2.00	0.62
1:E:4072:VAL:O	1:E:4078:GLN:NE2	2.31	0.62
1:E:675:LEU:HG	1:E:676:THR:HG23	1.80	0.62
1:G:182:LEU:HD11	1:G:189:LEU:HB3	1.82	0.62
1:G:1155:LEU:HD22	1:G:1184:ILE:HG12	1.81	0.62
1:G:1179:PHE:HB2	1:G:1182:ILE:HD11	1.80	0.62
1:G:2642:LYS:HE3	1:G:2646:ASN:HD21	1.64	0.62
3:F:11:LEU:HD13	3:F:124:THR:HB	1.81	0.62
1:E:2813:LEU:HA	1:E:2816:MET:HG3	1.80	0.62
1:E:4023:MET:O	1:E:4027:LEU:HG	1.99	0.62
3:M:51:ILE:HD13	3:M:71:ARG:HG2	1.81	0.62
1:G:2599:GLN:O	1:G:2603:ILE:HG12	2.00	0.62
1:B:2599:GLN:O	1:B:2603:ILE:HG12	2.00	0.62
1:B:2642:LYS:HE3	1:B:2646:ASN:HD21	1.64	0.62
1:B:3414:ARG:NH1	1:B:3418:ASN:OD1	2.32	0.62
1:E:2747:ILE:HD12	1:E:2817:ILE:HD13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1087:ARG:HB3	1:G:1223:PHE:CD1	2.34	0.62
1:G:2651:CYS:HB3	1:G:2654:TYR:HB3	1.81	0.62
1:B:2813:LEU:HA	1:B:2816:MET:HG3	1.80	0.62
1:B:3645:PRO:HD2	1:B:3648:ARG:HE	1.64	0.62
1:B:4023:MET:O	1:B:4027:LEU:HG	1.99	0.62
1:G:675:LEU:HG	1:G:676:THR:HG23	1.80	0.62
1:B:4090:LYS:HE2	1:B:4112:LEU:HD22	1.82	0.61
1:E:3457:ASN:HA	1:E:3460:VAL:HG12	1.82	0.61
1:G:2580:ASP:OD2	1:G:2621:HIS:ND1	2.33	0.61
1:J:182:LEU:HD11	1:J:189:LEU:HB3	1.82	0.61
1:J:2747:ILE:HD12	1:J:2817:ILE:HD13	1.82	0.61
3:F:30:SER:HB3	3:F:99:ARG:HB3	1.82	0.61
1:B:1154:ASP:HB3	1:B:1223:PHE:CE1	2.31	0.61
1:B:3187:ARG:HG3	1:B:3188:PRO:HD3	1.82	0.61
1:G:3457:ASN:HA	1:G:3460:VAL:HG12	1.82	0.61
1:J:2580:ASP:OD2	1:J:2621:HIS:ND1	2.33	0.61
1:B:21:VAL:HG13	1:B:205:ILE:HB	1.83	0.61
1:B:3145:GLN:HB3	1:B:3196:ARG:HD2	1.83	0.61
3:K:11:LEU:HD13	3:K:124:THR:HB	1.81	0.61
3:K:30:SER:HB3	3:K:99:ARG:HB3	1.81	0.61
1:B:1155:LEU:HD22	1:B:1184:ILE:HG12	1.81	0.61
1:B:2202:GLY:HA2	1:B:2204:HIS:CE1	2.36	0.61
1:E:3187:ARG:HG3	1:E:3188:PRO:HD3	1.82	0.61
1:E:3877:ASP:HB3	1:E:3880:PHE:HB3	1.82	0.61
1:E:4823:LEU:HD23	1:E:4826:ILE:HD12	1.82	0.61
1:G:21:VAL:HG13	1:G:205:ILE:HB	1.83	0.61
1:G:2202:GLY:HA2	1:G:2204:HIS:CE1	2.36	0.61
1:G:4088:ILE:O	1:G:4122:MET:HB3	2.01	0.61
1:B:182:LEU:HD11	1:B:189:LEU:HB3	1.82	0.61
1:B:3457:ASN:HA	1:B:3460:VAL:HG12	1.82	0.61
1:E:3414:ARG:NH1	1:E:3418:ASN:OD1	2.32	0.61
1:G:4090:LYS:HE2	1:G:4112:LEU:HD22	1.82	0.61
1:J:1442:GLY:H	1:J:1509:ILE:HG12	1.66	0.61
1:B:4823:LEU:HD23	1:B:4826:ILE:HD12	1.82	0.61
1:B:4892:ARG:NH2	1:G:4918:ILE:HD13	2.16	0.61
1:E:365:LYS:HE2	1:E:369:LEU:HD21	1.82	0.61
1:E:2580:ASP:OD2	1:E:2621:HIS:ND1	2.33	0.61
1:G:82:LEU:HD11	1:G:144:GLU:HB3	1.81	0.61
1:G:3145:GLN:HB3	1:G:3196:ARG:HD2	1.83	0.61
1:G:3877:ASP:HB3	1:G:3880:PHE:HB3	1.82	0.61
1:B:2964:LEU:O	1:B:2967:MET:HG3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4545:GLU:OE1	1:G:4548:ARG:NE	2.27	0.61
1:J:3414:ARG:NH1	1:J:3418:ASN:OD1	2.32	0.61
1:B:82:LEU:HD11	1:B:144:GLU:HB3	1.81	0.61
1:E:21:VAL:HG13	1:E:205:ILE:HB	1.83	0.61
1:J:3457:ASN:HA	1:J:3460:VAL:HG12	1.82	0.61
1:J:4127:GLU:OE1	1:J:4131:ARG:NH2	2.32	0.61
1:B:2793:PRO:HA	1:B:2855:TYR:HB2	1.83	0.61
1:B:4088:ILE:O	1:B:4122:MET:HB3	2.01	0.61
1:E:2418:LEU:O	1:E:2422:ILE:HG12	2.01	0.61
1:G:246:TYR:CD1	1:G:375:LYS:HA	2.36	0.61
1:J:21:VAL:HG13	1:J:205:ILE:HB	1.83	0.61
1:J:3187:ARG:HG3	1:J:3188:PRO:HD3	1.82	0.61
1:B:2881:ASN:HA	1:B:2884:ASN:ND2	2.16	0.60
1:E:2793:PRO:HA	1:E:2855:TYR:HB2	1.83	0.60
1:E:3147:ILE:HG23	1:E:3152:PHE:HB2	1.83	0.60
1:G:2418:LEU:O	1:G:2422:ILE:HG12	2.01	0.60
2:I:57:LYS:HE3	2:I:80:VAL:HG12	1.83	0.60
1:B:1442:GLY:H	1:B:1509:ILE:HG12	1.66	0.60
1:B:3147:ILE:HG23	1:B:3152:PHE:HB2	1.83	0.60
1:B:4942:GLU:OE1	1:B:4946:GLN:NE2	2.34	0.60
1:G:1442:GLY:H	1:G:1509:ILE:HG12	1.66	0.60
1:G:2747:ILE:HD12	1:G:2817:ILE:HD13	1.82	0.60
1:J:4088:ILE:O	1:J:4122:MET:HB3	2.01	0.60
1:G:2881:ASN:HA	1:G:2884:ASN:ND2	2.16	0.60
1:G:3414:ARG:NH1	1:G:3418:ASN:OD1	2.32	0.60
1:J:4823:LEU:HD23	1:J:4826:ILE:HD12	1.82	0.60
1:B:2580:ASP:OD2	1:B:2621:HIS:ND1	2.33	0.60
1:B:2747:ILE:HD12	1:B:2817:ILE:HD13	1.82	0.60
1:B:3877:ASP:HB3	1:B:3880:PHE:HB3	1.82	0.60
1:B:4127:GLU:OE1	1:B:4131:ARG:NH2	2.32	0.60
1:E:182:LEU:HD11	1:E:189:LEU:HB3	1.82	0.60
1:G:4942:GLU:OE1	1:G:4946:GLN:NE2	2.34	0.60
2:D:57:LYS:HE3	2:D:80:VAL:HG12	1.83	0.60
3:M:105:ASN:ND2	3:M:111:ASN:HB2	2.16	0.60
1:B:2418:LEU:O	1:B:2422:ILE:HG12	2.01	0.60
1:E:2881:ASN:HA	1:E:2884:ASN:ND2	2.16	0.60
1:G:2964:LEU:O	1:G:2967:MET:HG3	2.01	0.60
1:G:4127:GLU:OE1	1:G:4131:ARG:NH2	2.32	0.60
1:G:4823:LEU:HD23	1:G:4826:ILE:HD12	1.82	0.60
1:J:4090:LYS:HE2	1:J:4112:LEU:HD22	1.82	0.60
1:J:4942:GLU:OE1	1:J:4946:GLN:NE2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2369:ARG:HG2	1:B:2372:GLY:H	1.67	0.60
1:E:3145:GLN:HB3	1:E:3196:ARG:HD2	1.83	0.60
1:G:2621:HIS:O	1:G:2624:ARG:HG2	2.02	0.60
1:J:2621:HIS:O	1:J:2624:ARG:HG2	2.01	0.60
1:J:4118:ASP:HB3	1:J:4122:MET:HA	1.84	0.60
3:C:105:ASN:ND2	3:C:111:ASN:HB2	2.16	0.60
1:B:1018:ASN:HB2	1:B:1021:LEU:HG	1.84	0.60
1:B:1161:ILE:HG12	1:B:1177:THR:HA	1.84	0.60
1:E:4088:ILE:O	1:E:4122:MET:HB3	2.01	0.60
1:E:4090:LYS:HE2	1:E:4112:LEU:HD22	1.82	0.60
1:E:4918:ILE:HD13	1:J:4892:ARG:NH2	2.16	0.60
1:G:2369:ARG:HG2	1:G:2372:GLY:H	1.67	0.60
1:G:3187:ARG:HG3	1:G:3188:PRO:HD3	1.82	0.60
1:J:629:ARG:HH21	2:I:90:VAL:HG13	1.66	0.60
1:J:904:HIS:CD2	1:J:907:LEU:H	2.19	0.60
1:J:1161:ILE:HG12	1:J:1177:THR:HA	1.84	0.60
1:J:1293:LEU:HD11	1:J:1594:ARG:HG2	1.84	0.60
1:J:2202:GLY:HA2	1:J:2204:HIS:CE1	2.36	0.60
2:H:57:LYS:HE3	2:H:80:VAL:HG12	1.83	0.60
3:F:90:THR:HG23	3:F:124:THR:HA	1.84	0.60
3:K:90:THR:HG23	3:K:124:THR:HA	1.84	0.60
1:B:1035:ASN:OD1	3:C:109:THR:OG1	2.19	0.60
1:E:2964:LEU:O	1:E:2967:MET:HG3	2.01	0.60
1:J:2418:LEU:O	1:J:2422:ILE:HG12	2.01	0.60
1:J:2881:ASN:HA	1:J:2884:ASN:ND2	2.16	0.60
1:J:3145:GLN:HB3	1:J:3196:ARG:HD2	1.83	0.60
1:B:1727:ARG:NH2	1:B:1775:HIS:HA	2.17	0.60
1:E:904:HIS:CD2	1:E:907:LEU:H	2.19	0.60
1:G:360:ALA:HA	1:G:377:ILE:HD13	1.84	0.60
2:A:57:LYS:HE3	2:A:80:VAL:HG12	1.83	0.60
3:K:105:ASN:ND2	3:K:111:ASN:HB2	2.17	0.60
1:B:904:HIS:CD2	1:B:907:LEU:H	2.19	0.60
1:B:3100:SER:HB3	1:B:3167:ARG:HD3	1.84	0.60
1:E:4118:ASP:HB3	1:E:4122:MET:HA	1.84	0.60
1:E:4983:HIS:O	5:E:5102:ATP:N6	2.35	0.60
1:G:2265:LEU:HD21	1:G:2272:PRO:HG2	1.84	0.60
1:J:2751:LEU:O	1:J:2755:ILE:HG12	2.02	0.60
1:J:3081:MET:HG3	1:J:3156:VAL:HA	1.84	0.60
1:J:4863:TYR:HB2	1:J:4876:CYS:HB2	1.84	0.60
1:E:3100:SER:HB3	1:E:3167:ARG:HD3	1.84	0.59
1:E:4942:GLU:OE1	1:E:4946:GLN:NE2	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:924:MET:HB2	3:M:107:TRP:CE3	2.37	0.59
1:J:2369:ARG:HG2	1:J:2372:GLY:H	1.67	0.59
1:J:2779:GLU:HG3	1:J:2792:ARG:HG2	1.84	0.59
1:E:2621:HIS:O	1:E:2624:ARG:HG2	2.02	0.59
1:E:2816:MET:HB3	1:E:2878:LEU:HD13	1.84	0.59
1:G:917:GLU:OE1	3:M:101:PRO:HB2	2.01	0.59
1:E:2369:ARG:HG2	1:E:2372:GLY:H	1.67	0.59
1:E:4863:TYR:HB2	1:E:4876:CYS:HB2	1.84	0.59
1:G:1018:ASN:HB2	1:G:1021:LEU:HG	1.84	0.59
1:G:1161:ILE:HG12	1:G:1177:THR:HA	1.84	0.59
1:G:1727:ARG:NH2	1:G:1775:HIS:HA	2.17	0.59
1:G:4118:ASP:HB3	1:G:4122:MET:HA	1.84	0.59
1:J:35:LEU:HD23	1:J:49:LEU:HB3	1.85	0.59
1:J:1727:ARG:NH2	1:J:1775:HIS:HA	2.17	0.59
1:J:2265:LEU:HD21	1:J:2272:PRO:HG2	1.84	0.59
1:J:3877:ASP:HB3	1:J:3880:PHE:HB3	1.82	0.59
1:J:4983:HIS:O	5:J:5102:ATP:N6	2.35	0.59
1:B:2816:MET:HB3	1:B:2878:LEU:HD13	1.84	0.59
1:E:765:GLN:OE1	1:E:765:GLN:N	2.35	0.59
1:E:2202:GLY:HA2	1:E:2204:HIS:CE1	2.36	0.59
1:E:3757:GLU:O	1:E:3761:GLN:HG2	2.02	0.59
1:G:3147:ILE:HG23	1:G:3152:PHE:HB2	1.83	0.59
1:J:3100:SER:HB3	1:J:3167:ARG:HD3	1.84	0.59
1:J:3391:GLU:O	1:J:3395:ARG:HG3	2.03	0.59
3:M:90:THR:HG23	3:M:124:THR:HA	1.84	0.59
1:B:867:LEU:HD12	1:B:871:ARG:HE	1.68	0.59
1:B:1476:MET:HB3	1:B:1485:SER:HB2	1.84	0.59
1:B:2163:ARG:HA	1:B:2166:LEU:HG	1.85	0.59
1:B:4983:HIS:O	5:B:5102:ATP:N6	2.35	0.59
1:E:1293:LEU:HD11	1:E:1594:ARG:HG2	1.84	0.59
1:E:1442:GLY:H	1:E:1509:ILE:HG12	1.66	0.59
1:E:1727:ARG:NH2	1:E:1775:HIS:HA	2.17	0.59
1:E:1808:ARG:NH1	1:E:1853:ILE:O	2.34	0.59
1:G:2751:LEU:O	1:G:2755:ILE:HG12	2.02	0.59
1:G:2779:GLU:HG3	1:G:2792:ARG:HG2	1.84	0.59
1:G:3967:GLU:HA	1:G:3970:GLN:CG	2.33	0.59
1:J:2964:LEU:O	1:J:2967:MET:HG3	2.01	0.59
1:J:3147:ILE:HG23	1:J:3152:PHE:HB2	1.83	0.59
1:E:35:LEU:HD23	1:E:49:LEU:HB3	1.85	0.59
1:E:3391:GLU:O	1:E:3395:ARG:HG3	2.03	0.59
1:G:2793:PRO:HA	1:G:2855:TYR:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3100:SER:HB3	1:G:3167:ARG:HD3	1.84	0.59
3:C:90:THR:HG23	3:C:124:THR:HA	1.84	0.59
1:B:2674:LEU:HD11	1:B:2910:THR:OG1	2.03	0.59
1:E:246:TYR:CG	1:E:373:LYS:HB3	2.37	0.59
1:E:2674:LEU:HD11	1:E:2910:THR:OG1	2.03	0.59
1:E:2779:GLU:HG3	1:E:2792:ARG:HG2	1.84	0.59
1:G:2674:LEU:HD11	1:G:2910:THR:OG1	2.03	0.59
1:J:1839:VAL:HG12	1:J:1843:LYS:HE2	1.85	0.59
1:B:2621:HIS:O	1:B:2624:ARG:HG2	2.02	0.59
1:B:2747:ILE:HG12	1:B:2755:ILE:HG13	1.85	0.59
1:E:629:ARG:HH21	2:D:90:VAL:HG13	1.66	0.59
1:E:1161:ILE:HG12	1:E:1177:THR:HA	1.84	0.59
1:G:765:GLN:OE1	1:G:765:GLN:N	2.35	0.59
1:J:224:HIS:HA	1:J:388:LEU:HD22	1.85	0.59
1:B:224:HIS:HA	1:B:388:LEU:HD22	1.85	0.59
1:B:2265:LEU:HD21	1:B:2272:PRO:HG2	1.84	0.59
1:E:3081:MET:HG3	1:E:3156:VAL:HA	1.84	0.59
1:G:1808:ARG:NH1	1:G:1853:ILE:O	2.34	0.59
1:G:3081:MET:HG3	1:G:3156:VAL:HA	1.84	0.59
1:G:4693:GLY:O	1:G:4700:GLN:NE2	2.36	0.59
1:J:1018:ASN:HB2	1:J:1021:LEU:HG	1.84	0.59
1:J:2674:LEU:HD11	1:J:2910:THR:OG1	2.03	0.59
1:J:2793:PRO:HA	1:J:2855:TYR:HB2	1.83	0.59
1:B:3132:THR:HA	1:B:3136:LEU:HB2	1.85	0.59
1:E:1839:VAL:HG12	1:E:1843:LYS:HE2	1.85	0.59
1:E:2163:ARG:HA	1:E:2166:LEU:HG	1.85	0.59
1:G:1024:TYR:HE1	1:G:1035:ASN:HB2	1.67	0.59
1:G:3132:THR:HA	1:G:3136:LEU:HB2	1.85	0.59
1:G:4892:ARG:NH2	1:J:4918:ILE:HD13	2.17	0.59
1:J:1024:TYR:HE1	1:J:1035:ASN:HB2	1.67	0.59
3:F:105:ASN:ND2	3:F:111:ASN:HB2	2.17	0.59
1:B:1024:TYR:HE1	1:B:1035:ASN:HB2	1.67	0.58
1:B:1822:GLY:HA3	1:B:1838:PHE:HZ	1.68	0.58
1:B:1839:VAL:HG12	1:B:1843:LYS:HE2	1.85	0.58
1:B:2751:LEU:O	1:B:2755:ILE:HG12	2.02	0.58
1:B:3757:GLU:O	1:B:3761:GLN:HG2	2.02	0.58
1:B:3981:ALA:HA	1:B:3986:TRP:CZ2	2.38	0.58
1:B:4693:GLY:O	1:B:4700:GLN:NE2	2.36	0.58
1:G:2163:ARG:HA	1:G:2166:LEU:HG	1.85	0.58
1:J:1476:MET:HB3	1:J:1485:SER:HB2	1.84	0.58
1:B:829:TYR:HB3	1:B:1073:ARG:HH11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4693:GLY:O	1:E:4700:GLN:NE2	2.36	0.58
1:G:35:LEU:HD23	1:G:49:LEU:HB3	1.85	0.58
1:G:224:HIS:HA	1:G:388:LEU:HD22	1.85	0.58
1:G:1839:VAL:HG12	1:G:1843:LYS:HE2	1.85	0.58
1:G:4983:HIS:O	5:G:5102:ATP:N6	2.35	0.58
1:J:3981:ALA:HA	1:J:3986:TRP:CZ2	2.38	0.58
1:B:1293:LEU:HD11	1:B:1594:ARG:HG2	1.84	0.58
1:E:2265:LEU:HD21	1:E:2272:PRO:HG2	1.84	0.58
1:E:2751:LEU:O	1:E:2755:ILE:HG12	2.02	0.58
1:G:3813:GLN:NE2	1:G:3890:LEU:O	2.36	0.58
1:J:3757:GLU:O	1:J:3761:GLN:HG2	2.02	0.58
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.04	0.58
1:B:4118:ASP:HB3	1:B:4122:MET:HA	1.84	0.58
1:E:224:HIS:HA	1:E:388:LEU:HD22	1.85	0.58
1:E:924:MET:HB2	3:F:107:TRP:CE3	2.38	0.58
1:E:1018:ASN:HB2	1:E:1021:LEU:HG	1.84	0.58
1:G:2123:LEU:O	1:G:2127:GLN:HG2	2.04	0.58
1:J:829:TYR:HB3	1:J:1073:ARG:HH11	1.68	0.58
1:B:993:HIS:HB3	1:B:1024:TYR:HB2	1.85	0.58
1:B:1808:ARG:HD3	1:B:1853:ILE:HG22	1.85	0.58
1:E:663:TYR:HD1	1:E:747:CYS:HB3	1.69	0.58
1:E:1024:TYR:HE1	1:E:1035:ASN:HB2	1.67	0.58
1:E:3132:THR:HA	1:E:3136:LEU:HB2	1.85	0.58
1:E:3981:ALA:HA	1:E:3986:TRP:CZ2	2.38	0.58
1:J:2747:ILE:HG12	1:J:2755:ILE:HG13	1.85	0.58
1:J:3967:GLU:HA	1:J:3970:GLN:CG	2.33	0.58
1:B:4863:TYR:HB2	1:B:4876:CYS:HB2	1.84	0.58
1:E:615:ARG:NH2	1:E:1676:LEU:O	2.37	0.58
1:E:1822:GLY:HA3	1:E:1838:PHE:HZ	1.68	0.58
1:E:3967:GLU:HA	1:E:3970:GLN:CG	2.33	0.58
1:G:1822:GLY:HA3	1:G:1838:PHE:HZ	1.69	0.58
1:G:3757:GLU:O	1:G:3761:GLN:HG2	2.02	0.58
1:J:867:LEU:HD12	1:J:871:ARG:HE	1.68	0.58
1:J:924:MET:HB2	3:K:107:TRP:CE3	2.38	0.58
1:J:935:LEU:HD12	1:J:988:LEU:HD23	1.85	0.58
1:J:1808:ARG:HD3	1:J:1853:ILE:HG22	1.85	0.58
1:J:2163:ARG:HA	1:J:2166:LEU:HG	1.85	0.58
1:J:2816:MET:HB3	1:J:2878:LEU:HD13	1.84	0.58
1:J:3813:GLN:NE2	1:J:3890:LEU:O	2.36	0.58
1:E:3813:GLN:NE2	1:E:3890:LEU:O	2.36	0.58
1:G:867:LEU:HD12	1:G:871:ARG:HE	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1293:LEU:HD11	1:G:1594:ARG:HG2	1.84	0.58
1:G:4863:TYR:HB2	1:G:4876:CYS:HB2	1.84	0.58
1:J:1703:LEU:HD23	1:J:1708:ARG:HB3	1.86	0.58
1:G:1476:MET:HB3	1:G:1485:SER:HB2	1.84	0.58
1:G:3227:ARG:HB3	1:G:3232:LEU:HB2	1.85	0.58
1:J:1822:GLY:HA3	1:J:1838:PHE:HZ	1.69	0.58
1:J:2123:LEU:O	1:J:2127:GLN:HG2	2.04	0.58
1:J:4693:GLY:O	1:J:4700:GLN:NE2	2.36	0.58
1:B:935:LEU:HD12	1:B:988:LEU:HD23	1.85	0.58
1:B:1808:ARG:HD2	1:B:1854:PHE:HA	1.86	0.58
1:B:3081:MET:HG3	1:B:3156:VAL:HA	1.84	0.58
1:B:3391:GLU:O	1:B:3395:ARG:HG3	2.03	0.58
1:E:867:LEU:HD12	1:E:871:ARG:HE	1.68	0.58
1:E:3227:ARG:HB3	1:E:3232:LEU:HB2	1.85	0.58
1:G:993:HIS:HB3	1:G:1024:TYR:HB2	1.85	0.58
2:I:87:HIS:CD2	2:I:91:ILE:HD12	2.39	0.58
1:B:913:LEU:HB3	1:B:917:GLU:HB2	1.86	0.58
1:B:1152:MET:SD	1:B:1161:ILE:HB	2.44	0.58
1:E:2123:LEU:O	1:E:2127:GLN:HG2	2.04	0.58
1:G:2448:GLY:O	1:G:2452:ARG:HG2	2.04	0.58
1:G:3391:GLU:O	1:G:3395:ARG:HG3	2.03	0.58
1:J:1152:MET:SD	1:J:1161:ILE:HB	2.44	0.58
1:J:3263:TYR:HE1	1:J:3326:ASN:HD22	1.52	0.58
2:D:87:HIS:CD2	2:D:91:ILE:HD12	2.39	0.58
1:B:35:LEU:HD23	1:B:49:LEU:HB3	1.85	0.57
1:B:70:GLU:HG2	1:B:71:GLN:HG3	1.86	0.57
1:B:2779:GLU:HG3	1:B:2792:ARG:HG2	1.84	0.57
1:B:3813:GLN:NE2	1:B:3890:LEU:O	2.36	0.57
1:E:993:HIS:HB3	1:E:1024:TYR:HB2	1.85	0.57
1:E:2747:ILE:HG12	1:E:2755:ILE:HG13	1.85	0.57
1:E:4673:ARG:NH2	1:E:4702:ASP:OD1	2.37	0.57
1:G:70:GLU:HG2	1:G:71:GLN:HG3	1.86	0.57
1:G:657:THR:O	1:G:1007:TYR:N	2.34	0.57
1:G:913:LEU:HB3	1:G:917:GLU:HB2	1.86	0.57
1:J:3224:PRO:HA	1:J:3227:ARG:HD2	1.86	0.57
2:A:87:HIS:CD2	2:A:91:ILE:HD12	2.39	0.57
1:E:786:GLY:H	1:E:1631:GLN:HA	1.69	0.57
1:E:1476:MET:HB3	1:E:1485:SER:HB2	1.84	0.57
1:G:786:GLY:H	1:G:1631:GLN:HA	1.69	0.57
1:G:829:TYR:HB3	1:G:1073:ARG:HH11	1.68	0.57
1:G:1152:MET:SD	1:G:1161:ILE:HB	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2747:ILE:HG12	1:G:2755:ILE:HG13	1.85	0.57
1:G:3224:PRO:HA	1:G:3227:ARG:HD2	1.86	0.57
1:J:913:LEU:HB3	1:J:917:GLU:HB2	1.86	0.57
1:J:2238:TYR:O	1:J:2242:ILE:HG12	2.04	0.57
1:B:663:TYR:HD1	1:B:747:CYS:HB3	1.69	0.57
1:B:4918:ILE:HD13	1:E:4892:ARG:NH2	2.19	0.57
1:E:935:LEU:HD12	1:E:988:LEU:HD23	1.85	0.57
1:E:2880:GLU:OE1	1:E:2881:ASN:ND2	2.37	0.57
1:J:663:TYR:HD1	1:J:747:CYS:HB3	1.69	0.57
1:J:1808:ARG:NH1	1:J:1853:ILE:O	2.34	0.57
1:J:4673:ARG:NH2	1:J:4702:ASP:OD1	2.37	0.57
1:B:2238:TYR:O	1:B:2242:ILE:HG12	2.04	0.57
1:E:394:GLN:N	1:E:397:GLU:OE2	2.38	0.57
1:E:1808:ARG:HD3	1:E:1853:ILE:HG22	1.85	0.57
1:E:3793:MET:SD	1:E:3793:MET:N	2.78	0.57
1:G:917:GLU:HB3	3:M:104:TYR:OH	2.03	0.57
1:G:1808:ARG:HD2	1:G:1854:PHE:HA	1.86	0.57
1:G:2816:MET:HB3	1:G:2878:LEU:HD13	1.84	0.57
1:G:2880:GLU:OE1	1:G:2881:ASN:ND2	2.38	0.57
1:G:3793:MET:N	1:G:3793:MET:SD	2.78	0.57
1:G:4673:ARG:NH2	1:G:4702:ASP:OD1	2.37	0.57
1:J:615:ARG:NH2	1:J:1676:LEU:O	2.37	0.57
1:J:657:THR:O	1:J:1007:TYR:N	2.34	0.57
3:M:107:TRP:HE1	3:M:110:PRO:HB2	1.69	0.57
1:B:3018:LEU:HB2	1:B:3074:SER:HA	1.85	0.57
1:B:3967:GLU:HA	1:B:3970:GLN:CG	2.33	0.57
1:E:1703:LEU:HD23	1:E:1708:ARG:HB3	1.86	0.57
1:E:2111:VAL:HG12	1:E:2113:SER:H	1.69	0.57
1:E:2238:TYR:O	1:E:2242:ILE:HG12	2.04	0.57
1:G:615:ARG:NH2	1:G:1676:LEU:O	2.37	0.57
1:G:1159:THR:HG22	1:G:1180:ARG:HA	1.86	0.57
1:G:2111:VAL:HG12	1:G:2113:SER:H	1.69	0.57
1:J:2448:GLY:O	1:J:2452:ARG:HG2	2.04	0.57
1:J:2880:GLU:OE1	1:J:2881:ASN:ND2	2.37	0.57
1:J:3132:THR:HA	1:J:3136:LEU:HB2	1.85	0.57
1:E:1119:GLU:HB3	1:E:1134:LEU:HD22	1.86	0.57
1:E:1159:THR:HG22	1:E:1180:ARG:HA	1.86	0.57
1:E:1730:MET:O	1:E:1772:ARG:NH1	2.38	0.57
1:E:4545:GLU:OE1	1:E:4548:ARG:NE	2.27	0.57
1:G:935:LEU:HD12	1:G:988:LEU:HD23	1.85	0.57
1:G:2238:TYR:O	1:G:2242:ILE:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2768:PHE:O	1:G:2772:GLN:HG2	2.05	0.57
1:G:3263:TYR:HE1	1:G:3326:ASN:HD22	1.52	0.57
1:J:2111:VAL:HG12	1:J:2113:SER:H	1.69	0.57
1:J:2768:PHE:O	1:J:2772:GLN:HG2	2.05	0.57
1:J:3018:LEU:HB2	1:J:3074:SER:HA	1.85	0.57
1:E:917:GLU:CD	3:F:101:PRO:HB2	2.25	0.57
1:G:1119:GLU:HB3	1:G:1134:LEU:HD22	1.86	0.57
1:J:2305:CYS:HB2	1:J:2324:ASN:HB3	1.87	0.57
1:J:2325:PRO:O	1:J:2329:GLU:HG2	2.05	0.57
1:B:394:GLN:N	1:B:397:GLU:OE2	2.38	0.57
1:B:1730:MET:O	1:B:1772:ARG:NH1	2.38	0.57
1:B:2325:PRO:O	1:B:2329:GLU:HG2	2.05	0.57
1:B:2880:GLU:OE1	1:B:2881:ASN:ND2	2.37	0.57
1:B:4673:ARG:NH2	1:B:4702:ASP:OD1	2.37	0.57
1:E:1152:MET:SD	1:E:1161:ILE:HB	2.44	0.57
1:J:861:ILE:HG21	1:J:933:LEU:HD22	1.87	0.57
1:B:786:GLY:H	1:B:1631:GLN:HA	1.69	0.57
1:E:981:GLN:O	1:E:985:VAL:HG23	2.05	0.57
1:E:4122:MET:HE1	1:E:4123:ILE:HG12	1.86	0.57
1:G:219:VAL:HG12	1:G:261:ARG:HB2	1.87	0.57
1:G:1808:ARG:HD3	1:G:1853:ILE:HG22	1.85	0.57
1:G:2970:SER:HB3	1:G:2998:PHE:HE2	1.70	0.57
1:J:993:HIS:HB3	1:J:1024:TYR:HB2	1.85	0.57
1:J:1730:MET:O	1:J:1772:ARG:NH1	2.38	0.57
1:J:3227:ARG:HB3	1:J:3232:LEU:HB2	1.85	0.57
1:J:4860:ARG:HG3	1:J:4876:CYS:SG	2.45	0.57
1:B:1862:ILE:O	1:B:1866:ILE:HG13	2.05	0.57
1:B:3224:PRO:HA	1:B:3227:ARG:HD2	1.86	0.57
1:B:3227:ARG:HB3	1:B:3232:LEU:HB2	1.85	0.57
1:E:219:VAL:HG12	1:E:261:ARG:HB2	1.87	0.57
1:E:4865:LYS:HD2	1:E:4901:ILE:HA	1.87	0.57
1:J:394:GLN:N	1:J:397:GLU:OE2	2.38	0.57
1:J:1786:LEU:HD12	1:J:1787:PRO:HD2	1.87	0.57
1:J:1808:ARG:HD2	1:J:1854:PHE:HA	1.86	0.57
1:J:2970:SER:HB3	1:J:2998:PHE:HE2	1.70	0.57
1:J:3793:MET:N	1:J:3793:MET:SD	2.78	0.57
1:J:4865:LYS:HD2	1:J:4901:ILE:HA	1.87	0.57
1:B:615:ARG:NH2	1:B:1676:LEU:O	2.37	0.56
1:B:2653:LYS:HE2	1:B:2661:TRP:HA	1.87	0.56
1:B:3793:MET:N	1:B:3793:MET:SD	2.78	0.56
1:B:4243:PHE:CE2	1:B:4247:ILE:HD11	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1862:ILE:O	1:E:1866:ILE:HG13	2.05	0.56
1:E:2325:PRO:O	1:E:2329:GLU:HG2	2.05	0.56
1:G:663:TYR:HD1	1:G:747:CYS:HB3	1.69	0.56
1:B:360:ALA:HA	1:B:377:ILE:HD13	1.87	0.56
1:E:2305:CYS:HB2	1:E:2324:ASN:HB3	1.87	0.56
1:E:2448:GLY:O	1:E:2452:ARG:HG2	2.04	0.56
1:E:2653:LYS:HE2	1:E:2661:TRP:HA	1.87	0.56
1:E:3263:TYR:HE1	1:E:3326:ASN:HD22	1.52	0.56
1:G:369:LEU:HB3	1:G:371:VAL:HG23	1.86	0.56
1:G:394:GLN:N	1:G:397:GLU:OE2	2.38	0.56
1:G:1703:LEU:HD23	1:G:1708:ARG:HB3	1.86	0.56
1:J:245:VAL:HG23	1:J:376:ALA:HB3	1.88	0.56
1:J:1159:THR:HG22	1:J:1180:ARG:HA	1.86	0.56
2:H:87:HIS:CD2	2:H:91:ILE:HD12	2.39	0.56
3:F:4:LEU:HD21	3:F:97:ALA:HB2	1.87	0.56
1:B:1786:LEU:HD12	1:B:1787:PRO:HD2	1.87	0.56
1:B:2230:THR:HA	1:B:2270:SER:HB2	1.87	0.56
1:B:2440:MET:N	1:B:2440:MET:SD	2.78	0.56
1:B:2479:LEU:HA	1:B:2541:PHE:HZ	1.70	0.56
1:B:2768:PHE:O	1:B:2772:GLN:HG2	2.05	0.56
1:B:2970:SER:HB3	1:B:2998:PHE:HE2	1.70	0.56
1:B:4904:PRO:HB3	1:B:4913:ARG:HD3	1.87	0.56
1:E:574:VAL:HA	1:E:577:ILE:HG22	1.87	0.56
1:E:829:TYR:HB3	1:E:1073:ARG:HH11	1.68	0.56
1:E:913:LEU:HB3	1:E:917:GLU:HB2	1.86	0.56
1:E:2479:LEU:HA	1:E:2541:PHE:HZ	1.71	0.56
1:E:2633:LEU:HD21	1:E:2682:ILE:HD12	1.87	0.56
1:E:3018:LEU:HB2	1:E:3074:SER:HA	1.85	0.56
1:G:574:VAL:HA	1:G:577:ILE:HG22	1.87	0.56
1:G:861:ILE:HG21	1:G:933:LEU:HD22	1.87	0.56
1:G:981:GLN:O	1:G:985:VAL:HG23	2.05	0.56
1:G:1730:MET:O	1:G:1772:ARG:NH1	2.38	0.56
1:G:1815:LEU:HD22	1:G:1845:VAL:HG21	1.87	0.56
1:G:1862:ILE:O	1:G:1866:ILE:HG13	2.05	0.56
1:G:2230:THR:HA	1:G:2270:SER:HB2	1.87	0.56
1:G:2449:GLU:O	1:G:2453:ILE:HG12	2.06	0.56
1:G:2902:HIS:CE1	1:G:2904:LEU:HB2	2.41	0.56
1:G:5009:TYR:HA	1:G:5012:LYS:HE3	1.88	0.56
1:J:70:GLU:HG2	1:J:71:GLN:HG3	1.86	0.56
1:J:247:TYR:HB2	1:J:374:LYS:HD2	1.86	0.56
1:J:574:VAL:HA	1:J:577:ILE:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:981:GLN:O	1:J:985:VAL:HG23	2.05	0.56
1:J:1119:GLU:HB3	1:J:1134:LEU:HD22	1.86	0.56
1:J:2440:MET:N	1:J:2440:MET:SD	2.78	0.56
1:J:4128:PHE:HA	1:J:4131:ARG:HE	1.70	0.56
1:J:4243:PHE:CE2	1:J:4247:ILE:HD11	2.40	0.56
1:B:765:GLN:OE1	1:B:765:GLN:N	2.35	0.56
1:B:2111:VAL:HG12	1:B:2113:SER:H	1.69	0.56
1:B:2449:GLU:O	1:B:2453:ILE:HG12	2.06	0.56
1:B:4177:TYR:HE1	1:B:4199:GLU:HB2	1.70	0.56
1:E:70:GLU:HG2	1:E:71:GLN:HG3	1.86	0.56
1:E:1808:ARG:HD2	1:E:1854:PHE:HA	1.86	0.56
1:E:3874:VAL:HG23	1:E:3875:MET:H	1.71	0.56
1:G:2624:ARG:HD2	1:G:2910:THR:HG23	1.88	0.56
1:G:2653:LYS:HE2	1:G:2661:TRP:HA	1.87	0.56
1:G:4860:ARG:HG3	1:G:4876:CYS:SG	2.45	0.56
1:J:219:VAL:HG12	1:J:261:ARG:HB2	1.87	0.56
1:J:786:GLY:H	1:J:1631:GLN:HA	1.69	0.56
1:J:1260:MET:SD	1:J:1260:MET:N	2.77	0.56
1:J:2479:LEU:HA	1:J:2541:PHE:HZ	1.70	0.56
1:J:3874:VAL:HG23	1:J:3875:MET:H	1.71	0.56
1:J:4177:TYR:HE1	1:J:4199:GLU:HB2	1.70	0.56
1:B:2633:LEU:HD21	1:B:2682:ILE:HD12	1.87	0.56
1:E:2522:LEU:HD23	1:E:2526:PHE:HD2	1.71	0.56
1:E:2768:PHE:O	1:E:2772:GLN:HG2	2.05	0.56
1:E:2970:SER:HB3	1:E:2998:PHE:HE2	1.70	0.56
1:E:3224:PRO:HA	1:E:3227:ARG:HD2	1.86	0.56
1:E:4243:PHE:CE2	1:E:4247:ILE:HD11	2.40	0.56
1:E:4761:PRO:HB2	1:E:4766:THR:HG21	1.88	0.56
1:G:3018:LEU:HB2	1:G:3074:SER:HA	1.85	0.56
1:G:4865:LYS:HD2	1:G:4901:ILE:HA	1.86	0.56
1:J:1243:PRO:O	1:J:1458:HIS:ND1	2.31	0.56
1:J:2522:LEU:HD23	1:J:2526:PHE:HD2	1.71	0.56
1:J:2624:ARG:HD2	1:J:2910:THR:HG23	1.88	0.56
1:B:219:VAL:HG12	1:B:261:ARG:HB2	1.87	0.56
1:B:574:VAL:HA	1:B:577:ILE:HG22	1.87	0.56
1:B:1119:GLU:HB3	1:B:1134:LEU:HD22	1.86	0.56
1:B:3036:LYS:HD2	1:B:3079:THR:HG21	1.88	0.56
1:B:4761:PRO:HB2	1:B:4766:THR:HG21	1.88	0.56
1:B:5009:TYR:HA	1:B:5012:LYS:HE3	1.88	0.56
1:E:246:TYR:CD1	1:E:375:LYS:HA	2.40	0.56
1:E:1432:THR:HG23	1:E:1572:ILE:HG23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1786:LEU:HD12	1:G:1787:PRO:HD2	1.88	0.56
1:G:2305:CYS:HB2	1:G:2324:ASN:HB3	1.87	0.56
1:G:2479:LEU:HA	1:G:2541:PHE:HZ	1.70	0.56
1:G:4243:PHE:CE2	1:G:4247:ILE:HD11	2.40	0.56
1:G:4833:ASN:HD21	1:G:4935:LEU:HB3	1.71	0.56
3:C:4:LEU:HD21	3:C:97:ALA:HB2	1.87	0.56
1:B:1432:THR:HG23	1:B:1572:ILE:HG23	1.87	0.56
1:B:2522:LEU:HD23	1:B:2526:PHE:HD2	1.71	0.56
1:E:917:GLU:OE2	3:F:101:PRO:HB2	2.04	0.56
1:E:4128:PHE:HA	1:E:4131:ARG:HE	1.70	0.56
1:G:12:GLN:NE2	1:G:13:PHE:O	2.39	0.56
1:G:1734:TYR:HB2	1:G:2141:ALA:HA	1.88	0.56
1:J:2230:THR:HA	1:J:2270:SER:HB2	1.87	0.56
1:J:2633:LEU:HD21	1:J:2682:ILE:HD12	1.87	0.56
3:K:51:ILE:HD13	3:K:71:ARG:HG2	1.88	0.56
1:B:861:ILE:HG21	1:B:933:LEU:HD22	1.87	0.56
1:B:1703:LEU:HD23	1:B:1708:ARG:HB3	1.86	0.56
1:B:2448:GLY:O	1:B:2452:ARG:HG2	2.04	0.56
1:E:69:LEU:HD21	1:E:101:LEU:HD11	1.88	0.56
1:E:1786:LEU:HD12	1:E:1787:PRO:HD2	1.87	0.56
1:E:2230:THR:HA	1:E:2270:SER:HB2	1.87	0.56
1:E:2449:GLU:O	1:E:2453:ILE:HG12	2.06	0.56
1:E:3800:LEU:O	1:E:3804:ILE:HG12	2.06	0.56
1:E:4177:TYR:HE1	1:E:4199:GLU:HB2	1.70	0.56
1:G:3670:GLU:HG3	1:G:3728:ILE:HG23	1.88	0.56
1:J:765:GLN:OE1	1:J:765:GLN:N	2.35	0.56
1:J:1727:ARG:HG3	1:J:1773:PRO:HG2	1.88	0.56
3:M:18:LEU:HD22	3:M:85:LEU:HD21	1.88	0.56
1:B:69:LEU:HD21	1:B:101:LEU:HD11	1.88	0.56
1:B:2902:HIS:CE1	1:B:2904:LEU:HB2	2.41	0.56
1:B:3263:TYR:HE1	1:B:3326:ASN:HD22	1.52	0.56
1:B:4860:ARG:HG3	1:B:4876:CYS:SG	2.45	0.56
1:E:574:VAL:O	1:E:578:ILE:HG12	2.06	0.56
1:E:4904:PRO:HB3	1:E:4913:ARG:HD3	1.87	0.56
1:G:69:LEU:HD21	1:G:101:LEU:HD11	1.88	0.56
1:G:2522:LEU:HD23	1:G:2526:PHE:HD2	1.71	0.56
1:G:4904:PRO:HB3	1:G:4913:ARG:HD3	1.87	0.56
1:J:1240:LYS:HE3	1:J:1242:LEU:HB3	1.88	0.56
1:J:3036:LYS:HD2	1:J:3079:THR:HG21	1.88	0.56
1:J:4761:PRO:HB2	1:J:4766:THR:HG21	1.88	0.56
3:F:18:LEU:HD22	3:F:85:LEU:HD21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:18:LEU:HD22	3:K:85:LEU:HD21	1.88	0.56
1:B:590:LEU:HG	1:B:599:VAL:HG11	1.88	0.56
1:B:838:HIS:CD2	1:B:1201:HIS:HB2	2.41	0.56
1:B:4833:ASN:HD21	1:B:4935:LEU:HB3	1.71	0.56
1:E:3036:LYS:HD2	1:E:3079:THR:HG21	1.88	0.56
1:G:2325:PRO:O	1:G:2329:GLU:HG2	2.05	0.56
3:C:18:LEU:HD22	3:C:85:LEU:HD21	1.88	0.56
3:M:34:MET:HE3	3:M:95:CYS:HB2	1.88	0.56
1:B:574:VAL:O	1:B:578:ILE:HG12	2.06	0.55
1:B:1734:TYR:HB2	1:B:2141:ALA:HA	1.88	0.55
1:B:2305:CYS:HB2	1:B:2324:ASN:HB3	1.87	0.55
1:E:590:LEU:HG	1:E:599:VAL:HG11	1.89	0.55
1:E:1240:LYS:HE3	1:E:1242:LEU:HB3	1.88	0.55
1:E:2454:ARG:HG2	1:E:2458:ARG:HE	1.71	0.55
1:E:2624:ARG:HD2	1:E:2910:THR:HG23	1.88	0.55
1:E:4860:ARG:HG3	1:E:4876:CYS:SG	2.45	0.55
1:G:590:LEU:HG	1:G:599:VAL:HG11	1.88	0.55
1:J:622:THR:HA	1:J:626:LEU:HD13	1.88	0.55
3:K:107:TRP:HE1	3:K:110:PRO:HB2	1.71	0.55
1:B:111:HIS:HB3	1:B:114:SER:HB2	1.88	0.55
1:B:3800:LEU:O	1:B:3804:ILE:HG12	2.06	0.55
1:B:4865:LYS:HD2	1:B:4901:ILE:HA	1.86	0.55
1:E:1727:ARG:HG3	1:E:1773:PRO:HG2	1.88	0.55
1:G:2633:LEU:HD21	1:G:2682:ILE:HD12	1.87	0.55
1:G:4761:PRO:HB2	1:G:4766:THR:HG21	1.88	0.55
1:J:69:LEU:HD21	1:J:101:LEU:HD11	1.88	0.55
1:J:1866:ILE:HG12	1:J:1939:MET:HE1	1.88	0.55
1:J:2902:HIS:CE1	1:J:2904:LEU:HB2	2.41	0.55
1:J:3065:VAL:O	1:J:3069:HIS:ND1	2.40	0.55
1:J:3800:LEU:O	1:J:3804:ILE:HG12	2.06	0.55
1:J:5009:TYR:HA	1:J:5012:LYS:HE3	1.88	0.55
3:F:51:ILE:HD13	3:F:71:ARG:HG2	1.88	0.55
1:B:880:GLU:HA	1:B:967:PRO:HG2	1.88	0.55
1:B:1727:ARG:HG3	1:B:1773:PRO:HG2	1.88	0.55
1:B:2624:ARG:HD2	1:B:2910:THR:HG23	1.88	0.55
1:E:2902:HIS:CE1	1:E:2904:LEU:HB2	2.41	0.55
1:E:3670:GLU:HG3	1:E:3728:ILE:HG23	1.88	0.55
1:G:1727:ARG:HG3	1:G:1773:PRO:HG2	1.88	0.55
1:G:3036:LYS:HD2	1:G:3079:THR:HG21	1.88	0.55
1:G:3690:VAL:HB	1:G:3693:LYS:HE3	1.89	0.55
1:G:4952:GLU:O	1:G:4956:THR:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1815:LEU:HD22	1:J:1845:VAL:HG21	1.88	0.55
1:J:2449:GLU:O	1:J:2453:ILE:HG12	2.06	0.55
1:B:12:GLN:NE2	1:B:13:PHE:O	2.39	0.55
1:B:981:GLN:O	1:B:985:VAL:HG23	2.05	0.55
1:B:2454:ARG:HG2	1:B:2458:ARG:HE	1.71	0.55
1:B:3065:VAL:O	1:B:3069:HIS:ND1	2.40	0.55
1:B:3874:VAL:HG23	1:B:3875:MET:H	1.71	0.55
1:E:838:HIS:CD2	1:E:1201:HIS:HB2	2.41	0.55
1:G:111:HIS:HB3	1:G:114:SER:HB2	1.88	0.55
1:G:2490:MET:SD	1:G:2490:MET:N	2.80	0.55
1:J:3246:LEU:HA	1:J:3249:LEU:HD12	1.89	0.55
3:C:51:ILE:HD13	3:C:71:ARG:HG2	1.88	0.55
1:B:1159:THR:HG22	1:B:1180:ARG:HA	1.86	0.55
1:B:1808:ARG:NH1	1:B:1853:ILE:O	2.34	0.55
1:G:574:VAL:O	1:G:578:ILE:HG12	2.06	0.55
1:G:838:HIS:CD2	1:G:1201:HIS:HB2	2.42	0.55
1:G:3334:TRP:HE1	1:G:3337:ARG:HD2	1.72	0.55
1:G:3440:GLU:HA	1:G:3443:ILE:HG12	1.89	0.55
1:G:3800:LEU:O	1:G:3804:ILE:HG12	2.06	0.55
1:J:574:VAL:O	1:J:578:ILE:HG12	2.06	0.55
1:J:2454:ARG:HG2	1:J:2458:ARG:HE	1.71	0.55
1:J:2490:MET:SD	1:J:2490:MET:N	2.80	0.55
1:J:4904:PRO:HB3	1:J:4913:ARG:HD3	1.87	0.55
3:C:107:TRP:HE1	3:C:110:PRO:HB2	1.71	0.55
1:B:369:LEU:HB3	1:B:371:VAL:HG23	1.89	0.55
1:B:3699:HIS:HA	1:B:3702:VAL:HG12	1.89	0.55
1:E:111:HIS:HB3	1:E:114:SER:HB2	1.87	0.55
1:E:684:VAL:HG22	1:E:781:VAL:HG12	1.89	0.55
1:E:4240:ASP:OD1	1:E:4668:LEU:HD11	2.07	0.55
1:G:2440:MET:N	1:G:2440:MET:SD	2.78	0.55
1:G:3065:VAL:O	1:G:3069:HIS:ND1	2.40	0.55
1:G:3699:HIS:HA	1:G:3702:VAL:HG12	1.89	0.55
1:J:4833:ASN:HD21	1:J:4935:LEU:HB3	1.71	0.55
3:K:4:LEU:HD21	3:K:97:ALA:HB2	1.88	0.55
1:B:3670:GLU:HG3	1:B:3728:ILE:HG23	1.88	0.55
1:E:622:THR:HA	1:E:626:LEU:HD13	1.88	0.55
1:E:3246:LEU:HA	1:E:3249:LEU:HD12	1.89	0.55
1:E:5009:TYR:HA	1:E:5012:LYS:HE3	1.88	0.55
1:G:1432:THR:HG23	1:G:1572:ILE:HG23	1.88	0.55
1:G:1866:ILE:HG12	1:G:1939:MET:HE1	1.88	0.55
1:G:2454:ARG:HG2	1:G:2458:ARG:HE	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4128:PHE:HA	1:G:4131:ARG:HE	1.70	0.55
1:G:4177:TYR:HE1	1:G:4199:GLU:HB2	1.70	0.55
1:J:172:VAL:HG22	1:J:179:TYR:HA	1.89	0.55
1:J:2653:LYS:HE2	1:J:2661:TRP:HA	1.87	0.55
1:J:3334:TRP:HE1	1:J:3337:ARG:HD2	1.71	0.55
1:J:4122:MET:HE1	1:J:4123:ILE:HG12	1.88	0.55
1:B:817:PRO:HD3	1:B:1007:TYR:OH	2.07	0.55
1:B:4128:PHE:HA	1:B:4131:ARG:HE	1.70	0.55
1:E:861:ILE:HG21	1:E:933:LEU:HD22	1.87	0.55
1:E:1734:TYR:HB2	1:E:2141:ALA:HA	1.88	0.55
1:G:817:PRO:HD3	1:G:1007:TYR:OH	2.07	0.55
1:G:1773:PRO:HA	1:G:2153:MET:HE1	1.87	0.55
1:J:12:GLN:NE2	1:J:13:PHE:O	2.39	0.55
1:J:590:LEU:HG	1:J:599:VAL:HG11	1.89	0.55
1:J:838:HIS:CD2	1:J:1201:HIS:HB2	2.41	0.55
1:J:2633:LEU:HB2	1:J:2689:LYS:HE2	1.89	0.55
2:D:78:PRO:HD3	2:D:96:THR:HG22	1.89	0.55
2:I:78:PRO:HD3	2:I:96:THR:HG22	1.89	0.55
1:B:684:VAL:HG22	1:B:781:VAL:HG12	1.88	0.55
1:B:4654:ALA:O	1:B:4658:ILE:HG12	2.07	0.55
1:E:172:VAL:HG22	1:E:179:TYR:HA	1.89	0.55
1:E:2490:MET:N	1:E:2490:MET:SD	2.80	0.55
1:G:1240:LYS:HE3	1:G:1242:LEU:HB3	1.88	0.55
1:G:2633:LEU:HB2	1:G:2689:LYS:HE2	1.89	0.55
1:G:4240:ASP:OD1	1:G:4668:LEU:HD11	2.07	0.55
1:J:817:PRO:HD3	1:J:1007:TYR:OH	2.07	0.55
1:J:1734:TYR:HB2	1:J:2141:ALA:HA	1.88	0.55
1:J:4654:ALA:O	1:J:4658:ILE:HG12	2.07	0.55
1:B:622:THR:HA	1:B:626:LEU:HD13	1.88	0.55
1:B:1773:PRO:HA	1:B:2153:MET:HE1	1.89	0.55
1:E:3065:VAL:O	1:E:3069:HIS:ND1	2.40	0.55
1:G:172:VAL:HG22	1:G:179:TYR:HA	1.89	0.55
1:G:360:ALA:HA	1:G:377:ILE:CD1	2.37	0.55
1:G:880:GLU:HA	1:G:967:PRO:HG2	1.88	0.55
1:G:3874:VAL:HG23	1:G:3875:MET:H	1.71	0.55
1:G:4583:SER:HB3	1:G:4630:TYR:HE1	1.72	0.55
1:G:4735:GLU:O	1:G:4739:GLU:HG2	2.07	0.55
1:J:3690:VAL:HB	1:J:3693:LYS:HE3	1.89	0.55
1:J:4952:GLU:O	1:J:4956:THR:HG23	2.06	0.55
1:B:172:VAL:HG22	1:B:179:TYR:HA	1.89	0.54
1:B:1815:LEU:HD22	1:B:1845:VAL:HG21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3955:MET:HB2	1:B:4019:LEU:HD22	1.90	0.54
1:B:4735:GLU:O	1:B:4739:GLU:HG2	2.07	0.54
1:E:1497:GLY:HA2	1:E:1500:PHE:HD2	1.73	0.54
1:E:1815:LEU:HD22	1:E:1845:VAL:HG21	1.88	0.54
1:E:4833:ASN:HD21	1:E:4935:LEU:HB3	1.71	0.54
1:G:2755:ILE:HG22	1:G:2810:LYS:HZ2	1.71	0.54
1:G:4654:ALA:O	1:G:4658:ILE:HG12	2.07	0.54
1:J:917:GLU:CD	3:K:101:PRO:HB2	2.28	0.54
1:J:1497:GLY:HA2	1:J:1500:PHE:HD2	1.72	0.54
3:F:122:GLN:HE21	3:F:124:THR:HG1	1.50	0.54
1:B:728:ARG:NH2	1:B:1489:CYS:SG	2.81	0.54
1:B:1623:ARG:NH1	1:B:1623:ARG:HA	2.23	0.54
1:B:3334:TRP:HE1	1:B:3337:ARG:HD2	1.71	0.54
1:E:748:LEU:HD13	1:E:755:ILE:HG12	1.89	0.54
1:E:3440:GLU:HA	1:E:3443:ILE:HG12	1.89	0.54
1:G:2352:VAL:O	1:G:2356:LEU:HG	2.08	0.54
1:J:1432:THR:HG23	1:J:1572:ILE:HG23	1.88	0.54
1:J:1862:ILE:O	1:J:1866:ILE:HG13	2.05	0.54
3:F:39:GLN:HB3	3:F:45:ARG:HB3	1.89	0.54
1:B:3440:GLU:HA	1:B:3443:ILE:HG12	1.89	0.54
1:B:4583:SER:HB3	1:B:4630:TYR:HE1	1.72	0.54
1:E:12:GLN:NE2	1:E:13:PHE:O	2.39	0.54
1:E:548:VAL:HG21	1:E:582:HIS:CD2	2.42	0.54
1:E:1000:ARG:NH2	1:E:1003:GLN:HE22	2.06	0.54
1:E:3334:TRP:HE1	1:E:3337:ARG:HD2	1.71	0.54
1:G:684:VAL:HG22	1:G:781:VAL:HG12	1.89	0.54
1:J:2352:VAL:O	1:J:2356:LEU:HG	2.08	0.54
1:J:3670:GLU:HG3	1:J:3728:ILE:HG23	1.88	0.54
1:J:4240:ASP:OD1	1:J:4668:LEU:HD11	2.07	0.54
3:K:39:GLN:HB3	3:K:45:ARG:HB3	1.89	0.54
1:B:1240:LYS:HE3	1:B:1242:LEU:HB3	1.88	0.54
1:B:4240:ASP:OD1	1:B:4668:LEU:HD11	2.07	0.54
1:E:1445:PRO:HG2	1:E:1501:VAL:HG23	1.90	0.54
1:E:1623:ARG:NH1	1:E:1623:ARG:HA	2.23	0.54
1:E:4583:SER:HB3	1:E:4630:TYR:HE1	1.72	0.54
1:G:1623:ARG:HA	1:G:1623:ARG:NH1	2.23	0.54
1:J:111:HIS:HB3	1:J:114:SER:HB2	1.88	0.54
1:J:4767:TRP:O	1:J:4771:ILE:HG12	2.08	0.54
2:H:78:PRO:HD3	2:H:96:THR:HG22	1.89	0.54
3:M:39:GLN:HB3	3:M:45:ARG:HB3	1.89	0.54
1:B:907:LEU:O	1:B:963:ASN:ND2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2490:MET:SD	1:B:2490:MET:N	2.80	0.54
1:E:499:THR:HG23	1:E:502:HIS:H	1.73	0.54
1:E:728:ARG:NH2	1:E:1489:CYS:SG	2.81	0.54
1:E:3955:MET:HB2	1:E:4019:LEU:HD22	1.90	0.54
1:G:1497:GLY:HA2	1:G:1500:PHE:HD2	1.73	0.54
1:G:3246:LEU:HA	1:G:3249:LEU:HD12	1.89	0.54
1:G:4942:GLU:O	1:G:4946:GLN:HG3	2.08	0.54
1:J:1000:ARG:NH2	1:J:1003:GLN:HE22	2.06	0.54
1:J:1445:PRO:HG2	1:J:1501:VAL:HG23	1.90	0.54
3:F:107:TRP:HE1	3:F:110:PRO:HB2	1.73	0.54
1:B:206:CYS:HB3	1:B:271:GLY:H	1.73	0.54
1:B:3690:VAL:HB	1:B:3693:LYS:HE3	1.89	0.54
1:B:4115:SER:HB3	1:B:4122:MET:HE2	1.90	0.54
1:E:2440:MET:N	1:E:2440:MET:SD	2.78	0.54
1:E:4077:PHE:O	1:E:4081:VAL:HG23	2.08	0.54
1:G:247:TYR:HB2	1:G:374:LYS:HB2	1.90	0.54
1:G:2970:SER:HB3	1:G:2998:PHE:CE2	2.42	0.54
1:G:3981:ALA:HA	1:G:3986:TRP:CZ2	2.38	0.54
1:J:2970:SER:HB3	1:J:2998:PHE:CE2	2.42	0.54
1:J:3955:MET:HB2	1:J:4019:LEU:HD22	1.89	0.54
1:J:4077:PHE:O	1:J:4081:VAL:HG23	2.08	0.54
2:A:78:PRO:HD3	2:A:96:THR:HG22	1.89	0.54
1:B:1866:ILE:HG12	1:B:1939:MET:HE1	1.88	0.54
1:B:4952:GLU:O	1:B:4956:THR:HG23	2.06	0.54
1:E:4654:ALA:O	1:E:4658:ILE:HG12	2.07	0.54
1:E:4767:TRP:O	1:E:4771:ILE:HG12	2.08	0.54
1:E:4942:GLU:O	1:E:4946:GLN:HG3	2.08	0.54
1:E:4952:GLU:O	1:E:4956:THR:HG23	2.06	0.54
1:G:622:THR:HA	1:G:626:LEU:HD13	1.88	0.54
1:G:1000:ARG:NH2	1:G:1003:GLN:HE22	2.06	0.54
1:G:3955:MET:HB2	1:G:4019:LEU:HD22	1.89	0.54
1:J:3699:HIS:HA	1:J:3702:VAL:HG12	1.89	0.54
1:J:4942:GLU:O	1:J:4946:GLN:HG3	2.08	0.54
3:C:39:GLN:HB3	3:C:45:ARG:HB3	1.89	0.54
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.08	0.54
1:E:206:CYS:HB3	1:E:271:GLY:H	1.73	0.54
1:E:817:PRO:HD3	1:E:1007:TYR:OH	2.07	0.54
1:E:880:GLU:HA	1:E:967:PRO:HG2	1.88	0.54
1:E:2352:VAL:O	1:E:2356:LEU:HG	2.08	0.54
1:J:206:CYS:HB3	1:J:271:GLY:H	1.73	0.54
1:J:880:GLU:HA	1:J:967:PRO:HG2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:34:MET:CE	3:C:95:CYS:HB2	2.38	0.54
1:B:548:VAL:HG21	1:B:582:HIS:CD2	2.42	0.54
1:B:4942:GLU:O	1:B:4946:GLN:HG3	2.08	0.54
1:E:1498:GLY:HA2	1:E:1501:VAL:HG12	1.90	0.54
1:E:3690:VAL:HB	1:E:3693:LYS:HE3	1.89	0.54
1:J:684:VAL:HG22	1:J:781:VAL:HG12	1.89	0.54
1:J:748:LEU:HD13	1:J:755:ILE:HG12	1.89	0.54
1:J:917:GLU:OE2	3:K:101:PRO:HB2	2.08	0.54
1:J:4735:GLU:O	1:J:4739:GLU:HG2	2.07	0.54
1:B:917:GLU:OE2	3:C:101:PRO:HB2	2.08	0.54
1:B:3021:PRO:HD3	1:B:3036:LYS:HZ3	1.72	0.54
1:G:626:LEU:HB3	2:H:89:GLY:O	2.08	0.54
1:G:1445:PRO:HG2	1:G:1501:VAL:HG23	1.90	0.54
1:G:4077:PHE:O	1:G:4081:VAL:HG23	2.08	0.54
1:B:728:ARG:HE	1:B:1487:LEU:HD12	1.73	0.53
1:B:1497:GLY:HA2	1:B:1500:PHE:HD2	1.72	0.53
1:B:4767:TRP:O	1:B:4771:ILE:HG12	2.08	0.53
1:E:728:ARG:HE	1:E:1487:LEU:HD12	1.73	0.53
1:E:1866:ILE:HG12	1:E:1939:MET:HE1	1.89	0.53
1:E:4735:GLU:O	1:E:4739:GLU:HG2	2.07	0.53
1:G:1498:GLY:HA2	1:G:1501:VAL:HG12	1.90	0.53
1:J:3440:GLU:HA	1:J:3443:ILE:HG12	1.89	0.53
1:B:2352:VAL:O	1:B:2356:LEU:HG	2.08	0.53
1:G:907:LEU:O	1:G:963:ASN:ND2	2.41	0.53
1:G:3766:GLN:HA	1:G:3769:ARG:NE	2.24	0.53
1:J:3695:PRO:HB2	1:J:3699:HIS:HB3	1.91	0.53
1:J:4583:SER:HB3	1:J:4630:TYR:HE1	1.72	0.53
1:B:248:GLU:HA	1:B:372:LEU:O	2.08	0.53
1:B:1445:PRO:HG2	1:B:1501:VAL:HG23	1.90	0.53
1:B:3069:HIS:O	1:B:3073:ARG:HG3	2.08	0.53
1:B:3246:LEU:HA	1:B:3249:LEU:HD12	1.89	0.53
1:B:4943:LEU:O	1:B:4947:GLN:HG2	2.09	0.53
1:E:248:GLU:HG3	1:E:252:VAL:HG11	1.91	0.53
1:E:2970:SER:HB3	1:E:2998:PHE:CE2	2.42	0.53
1:E:3069:HIS:O	1:E:3073:ARG:HG3	2.08	0.53
1:E:3776:ALA:HB2	1:E:3812:VAL:HG23	1.90	0.53
1:G:206:CYS:HB3	1:G:271:GLY:H	1.73	0.53
1:G:728:ARG:NH2	1:G:1489:CYS:SG	2.81	0.53
1:G:1758:ARG:NH1	1:G:2037:ASP:OD1	2.42	0.53
1:G:1820:ARG:HH12	1:G:1865:MET:HE3	1.74	0.53
1:G:3069:HIS:O	1:G:3073:ARG:HG3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4767:TRP:O	1:G:4771:ILE:HG12	2.08	0.53
1:G:4943:LEU:O	1:G:4947:GLN:HG2	2.08	0.53
1:J:1042:ALA:O	1:J:1045:THR:OG1	2.20	0.53
1:J:2381:GLU:O	1:J:2385:ARG:HG2	2.08	0.53
1:J:2924:GLN:O	1:J:2928:LYS:HG2	2.09	0.53
3:C:44:GLN:HE22	3:C:46:GLU:HB3	1.74	0.53
3:C:111:ASN:HA	3:C:114:TYR:CD2	2.37	0.53
1:B:1000:ARG:NH2	1:B:1003:GLN:HE22	2.06	0.53
1:B:1498:GLY:HA2	1:B:1501:VAL:HG12	1.90	0.53
1:B:2381:GLU:O	1:B:2385:ARG:HG2	2.08	0.53
1:E:248:GLU:HB3	1:E:373:LYS:CA	2.38	0.53
1:E:1758:ARG:NH1	1:E:2037:ASP:OD1	2.42	0.53
1:E:2978:GLU:HB2	1:E:3053:ARG:HE	1.74	0.53
1:E:3695:PRO:HB2	1:E:3699:HIS:HB3	1.91	0.53
1:E:3699:HIS:HA	1:E:3702:VAL:HG12	1.89	0.53
1:G:499:THR:HG23	1:G:502:HIS:H	1.73	0.53
1:G:1433:TYR:HB3	1:G:1575:LEU:HD23	1.90	0.53
1:J:1433:TYR:HB3	1:J:1575:LEU:HD23	1.90	0.53
1:J:1820:ARG:HH12	1:J:1865:MET:HE3	1.74	0.53
1:J:3766:GLN:HA	1:J:3769:ARG:NE	2.24	0.53
3:K:34:MET:CE	3:K:95:CYS:HB2	2.39	0.53
1:B:3695:PRO:HB2	1:B:3699:HIS:HB3	1.91	0.53
1:G:748:LEU:HD13	1:G:755:ILE:HG12	1.89	0.53
1:J:499:THR:HG23	1:J:502:HIS:H	1.73	0.53
1:J:2978:GLU:HB2	1:J:3053:ARG:HE	1.74	0.53
1:J:4943:LEU:O	1:J:4947:GLN:HG2	2.08	0.53
1:B:748:LEU:HD13	1:B:755:ILE:HG12	1.89	0.53
1:B:1449:TRP:HB3	1:B:1494:MET:SD	2.49	0.53
1:B:1820:ARG:HH12	1:B:1865:MET:HE3	1.74	0.53
1:B:2633:LEU:HB2	1:B:2689:LYS:HE2	1.89	0.53
1:J:131:LEU:HD11	1:J:178:ARG:HH11	1.74	0.53
1:J:907:LEU:O	1:J:963:ASN:ND2	2.41	0.53
1:J:1623:ARG:NH1	1:J:1623:ARG:HA	2.22	0.53
1:B:917:GLU:CD	3:C:101:PRO:HB2	2.28	0.53
1:B:1221:GLU:HB2	1:B:1223:PHE:HD2	1.74	0.53
1:B:2970:SER:HB3	1:B:2998:PHE:CE2	2.43	0.53
1:E:131:LEU:HD11	1:E:178:ARG:HH11	1.74	0.53
1:J:1291:LEU:HD12	1:J:1550:PRO:HG2	1.91	0.53
1:J:2096:GLU:O	1:J:2100:HIS:ND1	2.42	0.53
1:J:3776:ALA:HB2	1:J:3812:VAL:HG23	1.91	0.53
1:B:499:THR:HG23	1:B:502:HIS:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2978:GLU:HB2	1:B:3053:ARG:HE	1.74	0.53
1:E:907:LEU:O	1:E:963:ASN:ND2	2.41	0.53
1:E:1449:TRP:HB3	1:E:1494:MET:SD	2.49	0.53
1:E:2096:GLU:O	1:E:2100:HIS:ND1	2.42	0.53
1:E:2924:GLN:O	1:E:2928:LYS:HG2	2.09	0.53
1:E:3768:SER:HA	1:E:3771:HIS:CD2	2.44	0.53
1:G:1449:TRP:HB3	1:G:1494:MET:SD	2.49	0.53
1:G:2096:GLU:O	1:G:2100:HIS:ND1	2.42	0.53
1:G:3188:PRO:HB3	1:G:3334:TRP:CZ3	2.44	0.53
1:G:3768:SER:HA	1:G:3771:HIS:CD2	2.44	0.53
1:J:2689:LYS:O	1:J:2993:GLN:NE2	2.42	0.53
1:J:3188:PRO:HB3	1:J:3334:TRP:CZ3	2.44	0.53
2:A:78:PRO:O	2:A:83:GLY:N	2.40	0.53
3:F:34:MET:CE	3:F:95:CYS:HB2	2.39	0.53
1:B:248:GLU:HG3	1:B:252:VAL:HG11	1.91	0.53
1:B:1433:TYR:HB3	1:B:1575:LEU:HD23	1.90	0.53
1:B:2588:ARG:HH12	1:B:2734:ASN:HD21	1.57	0.53
1:E:103:TYR:HB2	1:E:159:GLU:HA	1.91	0.53
1:E:2273:LEU:HD11	1:E:2334:PHE:HB2	1.91	0.53
1:E:2588:ARG:HH12	1:E:2734:ASN:HD21	1.57	0.53
1:E:2633:LEU:HB2	1:E:2689:LYS:HE2	1.89	0.53
1:G:1221:GLU:HB2	1:G:1223:PHE:HD2	1.74	0.53
1:G:3695:PRO:HB2	1:G:3699:HIS:HB3	1.91	0.53
1:J:248:GLU:HG3	1:J:252:VAL:HG11	1.91	0.53
1:J:728:ARG:NH2	1:J:1489:CYS:SG	2.81	0.53
1:J:1449:TRP:HB3	1:J:1494:MET:SD	2.48	0.53
1:J:1498:GLY:HA2	1:J:1501:VAL:HG12	1.90	0.53
1:J:1758:ARG:NH1	1:J:2037:ASP:OD1	2.42	0.53
1:J:1773:PRO:HA	1:J:2153:MET:HE1	1.90	0.53
1:J:3208:PRO:HB3	1:J:3236:VAL:HB	1.91	0.53
1:J:3399:SER:O	1:J:3403:ARG:HG3	2.09	0.53
3:C:105:ASN:OD1	3:C:107:TRP:HB3	2.09	0.53
3:K:44:GLN:HE22	3:K:46:GLU:HB3	1.74	0.53
1:B:648:ILE:HD11	1:B:793:LEU:HD13	1.91	0.53
1:B:2096:GLU:O	1:B:2100:HIS:ND1	2.42	0.53
1:B:2689:LYS:O	1:B:2993:GLN:NE2	2.42	0.53
1:B:2924:GLN:O	1:B:2928:LYS:HG2	2.09	0.53
1:E:1221:GLU:HB2	1:E:1223:PHE:HD2	1.74	0.53
1:G:131:LEU:HD11	1:G:178:ARG:HH11	1.74	0.53
1:G:648:ILE:HD11	1:G:793:LEU:HD13	1.91	0.53
1:G:1291:LEU:HD12	1:G:1550:PRO:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2689:LYS:O	1:G:2993:GLN:NE2	2.42	0.53
1:G:2924:GLN:O	1:G:2928:LYS:HG2	2.09	0.53
1:G:2978:GLU:HB2	1:G:3053:ARG:HE	1.74	0.53
1:G:2997:PHE:O	1:G:3001:ILE:HG22	2.10	0.53
1:J:548:VAL:HG21	1:J:582:HIS:CD2	2.42	0.53
1:J:728:ARG:HE	1:J:1487:LEU:HD12	1.73	0.53
1:J:2902:HIS:HB3	1:J:2905:LEU:HB2	1.91	0.53
1:E:1773:PRO:HA	1:E:2153:MET:HE1	1.90	0.52
1:E:3841:VAL:HG22	1:E:3842:LEU:HD23	1.91	0.52
1:G:3399:SER:O	1:G:3403:ARG:HG3	2.09	0.52
1:J:648:ILE:HD11	1:J:793:LEU:HD13	1.91	0.52
2:H:23:VAL:HG12	2:H:47:LYS:HG3	1.91	0.52
1:B:103:TYR:HB2	1:B:159:GLU:HA	1.91	0.52
1:B:3766:GLN:HA	1:B:3769:ARG:NE	2.24	0.52
1:E:247:TYR:CD2	1:E:374:LYS:HB2	2.44	0.52
1:E:870:ILE:O	1:E:874:LEU:HG	2.09	0.52
1:E:3208:PRO:HB3	1:E:3236:VAL:HB	1.91	0.52
1:E:4943:LEU:O	1:E:4947:GLN:HG2	2.09	0.52
1:G:728:ARG:HE	1:G:1487:LEU:HD12	1.73	0.52
1:G:993:HIS:HE1	1:G:1020:ARG:HB3	1.75	0.52
1:G:2273:LEU:HD11	1:G:2334:PHE:HB2	1.91	0.52
1:G:2381:GLU:O	1:G:2385:ARG:HG2	2.08	0.52
1:J:1221:GLU:HB2	1:J:1223:PHE:HD2	1.74	0.52
1:J:2273:LEU:HD11	1:J:2334:PHE:HB2	1.91	0.52
2:A:23:VAL:HG12	2:A:47:LYS:HG3	1.91	0.52
1:B:131:LEU:HD11	1:B:178:ARG:HH11	1.74	0.52
1:B:3768:SER:HA	1:B:3771:HIS:CD2	2.44	0.52
1:E:921:ASN:O	1:E:924:MET:HG2	2.10	0.52
1:E:3036:LYS:HD3	1:E:3076:ASP:HB3	1.92	0.52
1:E:3188:PRO:HB3	1:E:3334:TRP:CZ3	2.44	0.52
1:J:993:HIS:HE1	1:J:1020:ARG:HB3	1.75	0.52
1:J:2588:ARG:HH12	1:J:2734:ASN:HD21	1.57	0.52
1:J:3270:ILE:H	1:J:3270:ILE:HD12	1.74	0.52
3:F:105:ASN:OD1	3:F:107:TRP:HB3	2.09	0.52
3:K:105:ASN:OD1	3:K:107:TRP:HB3	2.09	0.52
1:B:870:ILE:O	1:B:874:LEU:HG	2.09	0.52
1:B:993:HIS:HE1	1:B:1020:ARG:HB3	1.75	0.52
1:B:1758:ARG:NH1	1:B:2037:ASP:OD1	2.42	0.52
1:B:3034:LYS:HA	1:B:3037:GLU:HG3	1.91	0.52
1:E:648:ILE:HD11	1:E:793:LEU:HD13	1.91	0.52
1:E:747:CYS:HB2	1:E:808:TYR:CE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3034:LYS:HA	1:E:3037:GLU:HG3	1.91	0.52
1:E:3766:GLN:HA	1:E:3769:ARG:NE	2.24	0.52
1:G:248:GLU:HB3	1:G:373:LYS:HA	1.92	0.52
1:G:1691:GLN:HE22	1:G:1803:PRO:HD2	1.75	0.52
1:G:2588:ARG:HH12	1:G:2734:ASN:HD21	1.57	0.52
1:G:2627:VAL:HG22	1:G:2678:LEU:HD22	1.90	0.52
1:G:2902:HIS:HB3	1:G:2905:LEU:HB2	1.91	0.52
2:H:78:PRO:O	2:H:83:GLY:N	2.40	0.52
3:F:44:GLN:HE22	3:F:46:GLU:HB3	1.74	0.52
1:B:1291:LEU:HD12	1:B:1550:PRO:HG2	1.91	0.52
1:B:2273:LEU:HD11	1:B:2334:PHE:HB2	1.91	0.52
1:B:3036:LYS:HD3	1:B:3076:ASP:HB3	1.92	0.52
1:B:3548:GLU:HG2	1:B:3552:PHE:CE2	2.45	0.52
1:E:437:PRO:HB2	1:E:440:ALA:HB3	1.91	0.52
1:E:625:LEU:HD12	1:E:626:LEU:HD12	1.92	0.52
1:E:1291:LEU:HD12	1:E:1550:PRO:HG2	1.91	0.52
1:E:1691:GLN:HE22	1:E:1803:PRO:HD2	1.75	0.52
1:G:747:CYS:HB2	1:G:808:TYR:CE2	2.45	0.52
1:J:747:CYS:SG	1:J:756:SER:HB2	2.50	0.52
1:J:1130:GLN:HG2	1:J:1138:PRO:HA	1.91	0.52
1:J:1232:ARG:NH2	1:J:1828:ASP:O	2.43	0.52
1:J:2627:VAL:HG22	1:J:2678:LEU:HD22	1.90	0.52
1:B:1130:GLN:HG2	1:B:1138:PRO:HA	1.91	0.52
1:B:1691:GLN:HE22	1:B:1803:PRO:HD2	1.75	0.52
1:B:1870:VAL:HG11	1:B:2097:LEU:HD22	1.92	0.52
1:B:2997:PHE:O	1:B:3001:ILE:HG22	2.10	0.52
1:E:266:ARG:HG2	1:E:268:SER:H	1.74	0.52
1:E:1433:TYR:HB3	1:E:1575:LEU:HD23	1.90	0.52
1:E:2381:GLU:O	1:E:2385:ARG:HG2	2.08	0.52
1:E:2997:PHE:O	1:E:3001:ILE:HG22	2.10	0.52
1:J:365:LYS:O	1:J:369:LEU:HG	2.09	0.52
3:M:44:GLN:HE22	3:M:46:GLU:HB3	1.74	0.52
3:M:102:ASN:HB2	3:M:104:TYR:CE2	2.45	0.52
1:B:341:TYR:CE2	1:B:392:ARG:HB2	2.45	0.52
1:B:622:THR:HG23	1:B:626:LEU:HD22	1.92	0.52
1:E:341:TYR:CE2	1:E:392:ARG:HB2	2.45	0.52
1:E:993:HIS:HE1	1:E:1020:ARG:HB3	1.75	0.52
1:E:1042:ALA:O	1:E:1045:THR:OG1	2.20	0.52
1:E:3270:ILE:H	1:E:3270:ILE:HD12	1.74	0.52
1:G:634:GLN:HG3	2:H:34:LYS:NZ	2.25	0.52
1:G:870:ILE:O	1:G:874:LEU:HG	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3841:VAL:HG22	1:G:3842:LEU:HD23	1.92	0.52
1:J:792:LEU:HA	1:J:798:GLY:HA3	1.92	0.52
1:J:1439:VAL:HB	1:J:1514:LEU:HB3	1.92	0.52
1:J:3069:HIS:O	1:J:3073:ARG:HG3	2.08	0.52
1:B:883:ALA:HA	1:B:886:ARG:HE	1.74	0.52
1:B:3511:VAL:HG23	1:B:3515:LYS:HE2	1.92	0.52
1:B:3841:VAL:HG22	1:B:3842:LEU:HD23	1.91	0.52
1:E:1035:ASN:OD1	3:F:109:THR:OG1	2.26	0.52
1:E:2627:VAL:HG22	1:E:2678:LEU:HD22	1.90	0.52
1:E:3511:VAL:HG23	1:E:3515:LYS:HE2	1.92	0.52
1:E:4020:GLN:HA	1:E:4023:MET:HG3	1.91	0.52
1:G:622:THR:HG23	1:G:626:LEU:HD22	1.92	0.52
1:G:4020:GLN:HA	1:G:4023:MET:HG3	1.91	0.52
1:J:76:ARG:O	1:J:79:GLN:HG3	2.10	0.52
1:J:266:ARG:HG2	1:J:268:SER:H	1.74	0.52
1:J:3316:LEU:HD22	1:J:3353:LEU:HD13	1.92	0.52
1:J:3548:GLU:HG2	1:J:3552:PHE:CE2	2.45	0.52
1:B:881:LEU:O	1:B:885:THR:HG23	2.10	0.52
1:B:920:TYR:O	1:B:923:GLN:HG2	2.10	0.52
1:B:3188:PRO:HB3	1:B:3334:TRP:CZ3	2.44	0.52
1:E:76:ARG:O	1:E:79:GLN:HG3	2.10	0.52
1:E:792:LEU:HA	1:E:798:GLY:HA3	1.91	0.52
1:E:3031:ALA:O	1:E:3036:LYS:NZ	2.37	0.52
1:E:3592:ILE:HG12	1:E:3595:ARG:HH21	1.74	0.52
1:G:248:GLU:HG3	1:G:252:VAL:HG11	1.91	0.52
1:G:548:VAL:HG21	1:G:582:HIS:CD2	2.42	0.52
1:J:883:ALA:HA	1:J:886:ARG:HE	1.74	0.52
1:J:960:MET:HG3	1:J:966:LYS:HE3	1.92	0.52
1:J:2997:PHE:O	1:J:3001:ILE:HG22	2.10	0.52
1:J:3051:ARG:HH22	1:J:3102:ASP:HB2	1.75	0.52
1:J:4229:GLU:OE1	1:J:4229:GLU:N	2.37	0.52
2:D:78:PRO:O	2:D:83:GLY:N	2.40	0.52
3:M:111:ASN:HA	3:M:114:TYR:HD2	1.75	0.52
1:B:625:LEU:HD12	1:B:626:LEU:HD12	1.92	0.52
1:B:1232:ARG:NH2	1:B:1828:ASP:O	2.43	0.52
1:B:3270:ILE:H	1:B:3270:ILE:HD12	1.74	0.52
1:B:3592:ILE:HG12	1:B:3595:ARG:HH21	1.74	0.52
1:B:3756:LYS:O	1:B:3760:LYS:HG2	2.10	0.52
1:E:1128:ARG:HH12	1:E:1132:TRP:HZ2	1.58	0.52
1:E:3548:GLU:HG2	1:E:3552:PHE:CE2	2.45	0.52
1:G:76:ARG:O	1:G:79:GLN:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:747:CYS:SG	1:G:756:SER:HB2	2.50	0.52
1:G:1232:ARG:NH2	1:G:1828:ASP:O	2.43	0.52
1:G:3051:ARG:HH22	1:G:3102:ASP:HB2	1.75	0.52
1:G:3270:ILE:H	1:G:3270:ILE:HD12	1.74	0.52
1:J:246:TYR:CG	1:J:373:LYS:HB3	2.45	0.52
1:J:625:LEU:HD12	1:J:626:LEU:HD12	1.92	0.52
1:J:1128:ARG:HH12	1:J:1132:TRP:HZ2	1.58	0.52
1:J:3946:GLN:OE1	1:J:3949:ARG:NH2	2.43	0.52
1:J:4020:GLN:HA	1:J:4023:MET:HG3	1.91	0.52
1:B:276:TRP:HZ3	1:B:346:CYS:HA	1.75	0.51
1:B:747:CYS:SG	1:B:756:SER:HB2	2.50	0.51
1:B:985:VAL:HG22	1:B:1043:VAL:HG21	1.93	0.51
1:B:1243:PRO:O	1:B:1458:HIS:ND1	2.31	0.51
1:B:2902:HIS:HB3	1:B:2905:LEU:HB2	1.91	0.51
1:B:3405:LEU:HG	1:B:3409:TYR:CE1	2.45	0.51
1:E:3399:SER:O	1:E:3403:ARG:HG3	2.09	0.51
1:G:920:TYR:O	1:G:923:GLN:HG2	2.10	0.51
1:G:3208:PRO:HB3	1:G:3236:VAL:HB	1.91	0.51
1:G:3405:LEU:HG	1:G:3409:TYR:CE1	2.46	0.51
1:G:4115:SER:HB3	1:G:4122:MET:HE2	1.92	0.51
1:J:547:VAL:HB	1:J:560:ILE:HD11	1.93	0.51
1:J:747:CYS:HB2	1:J:808:TYR:CE2	2.45	0.51
1:J:2142:TYR:CG	1:J:2197:LEU:HD13	2.45	0.51
1:J:3768:SER:HA	1:J:3771:HIS:CD2	2.44	0.51
3:M:19:ARG:HE	3:M:79:TYR:HB3	1.75	0.51
1:B:921:ASN:O	1:B:924:MET:HG2	2.10	0.51
1:B:2574:HIS:CD2	1:B:2575:ARG:HG2	2.46	0.51
1:B:3208:PRO:HB3	1:B:3236:VAL:HB	1.91	0.51
1:E:1232:ARG:NH2	1:E:1828:ASP:O	2.43	0.51
1:E:2689:LYS:O	1:E:2993:GLN:NE2	2.42	0.51
1:E:3341:PHE:O	1:E:3344:PRO:HD2	2.11	0.51
1:E:3536:ALA:HB2	1:E:3553:LEU:HD21	1.92	0.51
1:G:547:VAL:HB	1:G:560:ILE:HD11	1.92	0.51
1:G:883:ALA:HA	1:G:886:ARG:HE	1.74	0.51
1:G:2574:HIS:CD2	1:G:2575:ARG:HG2	2.46	0.51
1:J:921:ASN:O	1:J:924:MET:HG2	2.10	0.51
1:J:1778:SER:HB2	1:J:1798:LEU:HB2	1.92	0.51
1:J:1870:VAL:HG11	1:J:2097:LEU:HD22	1.92	0.51
1:J:3536:ALA:HB2	1:J:3553:LEU:HD21	1.92	0.51
1:B:1439:VAL:HB	1:B:1514:LEU:HB3	1.92	0.51
1:B:3776:ALA:HB2	1:B:3812:VAL:HG23	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4020:GLN:HA	1:B:4023:MET:HG3	1.91	0.51
1:E:626:LEU:HB3	2:D:89:GLY:O	2.10	0.51
1:E:881:LEU:O	1:E:885:THR:HG23	2.10	0.51
1:E:920:TYR:O	1:E:923:GLN:HG2	2.10	0.51
1:E:2362:GLU:HA	1:E:2369:ARG:HH22	1.75	0.51
1:G:3034:LYS:HA	1:G:3037:GLU:HG3	1.91	0.51
1:G:4999:ASP:HB2	1:G:5002:GLU:HG2	1.93	0.51
1:J:965:TYR:O	1:J:967:PRO:HD3	2.11	0.51
1:J:3036:LYS:HD3	1:J:3076:ASP:HB3	1.92	0.51
1:J:3841:VAL:HG22	1:J:3842:LEU:HD23	1.92	0.51
1:B:76:ARG:O	1:B:79:GLN:HG3	2.10	0.51
1:B:246:TYR:HE1	1:B:375:LYS:HZ3	1.58	0.51
1:B:547:VAL:HB	1:B:560:ILE:HD11	1.93	0.51
1:B:792:LEU:HA	1:B:798:GLY:HA3	1.92	0.51
1:B:960:MET:HG3	1:B:966:LYS:HE3	1.92	0.51
1:B:2893:GLU:O	1:B:2897:LYS:HG2	2.11	0.51
1:B:3341:PHE:O	1:B:3344:PRO:HD2	2.11	0.51
1:B:3547:GLU:O	1:B:3551:GLU:HG2	2.11	0.51
1:E:747:CYS:SG	1:E:756:SER:HB2	2.50	0.51
1:E:1130:GLN:HG2	1:E:1138:PRO:HA	1.91	0.51
1:E:4999:ASP:HB2	1:E:5002:GLU:HG2	1.93	0.51
1:G:276:TRP:HZ3	1:G:346:CYS:HA	1.75	0.51
1:G:874:LEU:O	1:G:878:ILE:HG12	2.11	0.51
1:G:3592:ILE:HG12	1:G:3595:ARG:HH21	1.74	0.51
1:G:3776:ALA:HB2	1:G:3812:VAL:HG23	1.90	0.51
1:J:870:ILE:O	1:J:874:LEU:HG	2.09	0.51
1:J:985:VAL:HG22	1:J:1043:VAL:HG21	1.93	0.51
1:J:2362:GLU:HA	1:J:2369:ARG:HH22	1.75	0.51
1:J:2574:HIS:CD2	1:J:2575:ARG:HG2	2.46	0.51
1:J:3341:PHE:O	1:J:3344:PRO:HD2	2.11	0.51
1:J:3511:VAL:HG23	1:J:3515:LYS:HE2	1.92	0.51
1:J:3592:ILE:HG12	1:J:3595:ARG:HH21	1.74	0.51
1:J:3756:LYS:O	1:J:3760:LYS:HG2	2.10	0.51
1:J:3775:ALA:HA	1:J:3778:MET:HG3	1.93	0.51
1:B:747:CYS:HB2	1:B:808:TYR:CE2	2.45	0.51
1:B:3973:CYS:SG	1:B:3976:ASN:HB2	2.51	0.51
1:E:276:TRP:HZ3	1:E:346:CYS:HA	1.75	0.51
1:E:1748:PHE:HD1	1:E:1749:PRO:HD2	1.75	0.51
1:E:2233:CYS:HB2	1:E:2270:SER:HB3	1.93	0.51
1:E:2793:PRO:O	1:E:2797:PHE:N	2.44	0.51
1:G:266:ARG:HG2	1:G:268:SER:H	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:341:TYR:CE2	1:G:392:ARG:HB2	2.45	0.51
1:G:437:PRO:HB2	1:G:440:ALA:HB3	1.91	0.51
1:G:960:MET:HG3	1:G:966:LYS:HE3	1.92	0.51
1:G:2793:PRO:O	1:G:2797:PHE:N	2.44	0.51
1:J:626:LEU:HB3	2:I:89:GLY:O	2.10	0.51
1:J:1691:GLN:HE22	1:J:1803:PRO:HD2	1.75	0.51
1:J:3405:LEU:HG	1:J:3409:TYR:CE1	2.45	0.51
1:J:3547:GLU:O	1:J:3551:GLU:HG2	2.11	0.51
1:B:437:PRO:HB2	1:B:440:ALA:HB3	1.91	0.51
1:B:470:SER:HA	1:B:473:ASN:HD21	1.76	0.51
1:B:870:ILE:HD12	1:B:1051:TYR:CZ	2.46	0.51
1:B:1748:PHE:HD1	1:B:1749:PRO:HD2	1.75	0.51
1:B:2362:GLU:HA	1:B:2369:ARG:HH22	1.76	0.51
1:B:2627:VAL:HG22	1:B:2678:LEU:HD22	1.91	0.51
1:B:2630:VAL:HG13	1:B:2682:ILE:HD11	1.93	0.51
1:B:3316:LEU:HD22	1:B:3353:LEU:HD13	1.92	0.51
1:B:4999:ASP:HB2	1:B:5002:GLU:HG2	1.93	0.51
1:E:909:ASN:HA	1:E:965:TYR:HA	1.92	0.51
1:E:1439:VAL:HB	1:E:1514:LEU:HB3	1.92	0.51
1:E:1964:ARG:O	1:E:1968:LYS:HG3	2.11	0.51
1:E:2902:HIS:HB3	1:E:2905:LEU:HB2	1.91	0.51
1:E:3051:ARG:HH22	1:E:3102:ASP:HB2	1.75	0.51
1:E:3547:GLU:O	1:E:3551:GLU:HG2	2.11	0.51
1:E:3756:LYS:O	1:E:3760:LYS:HG2	2.11	0.51
1:G:103:TYR:HB2	1:G:159:GLU:HA	1.91	0.51
1:G:921:ASN:O	1:G:924:MET:HG2	2.10	0.51
1:J:103:TYR:HB2	1:J:159:GLU:HA	1.91	0.51
1:J:437:PRO:HB2	1:J:440:ALA:HB3	1.91	0.51
1:J:881:LEU:O	1:J:885:THR:HG23	2.10	0.51
1:J:909:ASN:HA	1:J:965:TYR:HA	1.92	0.51
1:J:920:TYR:O	1:J:923:GLN:HG2	2.10	0.51
1:J:2793:PRO:O	1:J:2797:PHE:N	2.44	0.51
1:J:4999:ASP:HB2	1:J:5002:GLU:HG2	1.93	0.51
2:D:23:VAL:HG12	2:D:47:LYS:HG3	1.91	0.51
1:B:874:LEU:O	1:B:878:ILE:HG12	2.11	0.51
1:B:3018:LEU:HD21	1:B:3150:HIS:CE1	2.46	0.51
1:E:870:ILE:HD12	1:E:1051:TYR:CZ	2.46	0.51
1:E:883:ALA:HA	1:E:886:ARG:HE	1.74	0.51
1:E:965:TYR:O	1:E:967:PRO:HD3	2.11	0.51
1:E:1243:PRO:O	1:E:1458:HIS:ND1	2.31	0.51
1:E:1778:SER:HB2	1:E:1798:LEU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1870:VAL:HG11	1:E:2097:LEU:HD22	1.91	0.51
1:E:2630:VAL:HG13	1:E:2682:ILE:HD11	1.93	0.51
1:E:3775:ALA:HA	1:E:3778:MET:HG3	1.93	0.51
1:G:1748:PHE:HD1	1:G:1749:PRO:HD2	1.75	0.51
1:G:3036:LYS:HD3	1:G:3076:ASP:HB3	1.92	0.51
1:G:3341:PHE:O	1:G:3344:PRO:HD2	2.11	0.51
1:G:3548:GLU:HG2	1:G:3552:PHE:CE2	2.45	0.51
1:J:3194:LEU:HA	1:J:3197:LEU:HG	1.93	0.51
1:B:1778:SER:HB2	1:B:1798:LEU:HB2	1.92	0.51
1:B:4080:TYR:CG	1:B:4096:ALA:HB2	2.46	0.51
1:E:547:VAL:HB	1:E:560:ILE:HD11	1.92	0.51
1:E:874:LEU:O	1:E:878:ILE:HG12	2.11	0.51
1:E:1438:ARG:HG3	1:E:1513:ASP:HB3	1.93	0.51
1:E:1945:TYR:O	1:E:1949:GLN:HG2	2.11	0.51
1:E:3194:LEU:HA	1:E:3197:LEU:HG	1.93	0.51
1:E:3316:LEU:HD22	1:E:3353:LEU:HD13	1.92	0.51
1:E:3400:VAL:HG23	1:E:3403:ARG:HE	1.76	0.51
1:E:3445:TRP:CD1	1:E:3509:LEU:HD22	2.46	0.51
1:G:625:LEU:HD12	1:G:626:LEU:HD12	1.92	0.51
1:G:3511:VAL:HG23	1:G:3515:LYS:HE2	1.92	0.51
1:G:3996:PHE:HZ	1:G:4019:LEU:HG	1.76	0.51
1:G:4080:TYR:CG	1:G:4096:ALA:HB2	2.46	0.51
1:J:341:TYR:CE2	1:J:392:ARG:HB2	2.45	0.51
1:J:622:THR:HG23	1:J:626:LEU:HD22	1.92	0.51
1:J:874:LEU:O	1:J:878:ILE:HG12	2.11	0.51
1:J:2175:GLU:O	1:J:2179:ILE:HG12	2.11	0.51
1:J:3034:LYS:HA	1:J:3037:GLU:HG3	1.91	0.51
1:J:3400:VAL:HG23	1:J:3403:ARG:HE	1.76	0.51
1:J:3996:PHE:HZ	1:J:4019:LEU:HG	1.76	0.51
1:J:4243:PHE:O	1:J:4247:ILE:HG13	2.11	0.51
2:D:31:GLN:OE1	2:D:96:THR:N	2.44	0.51
3:F:19:ARG:HE	3:F:79:TYR:HB3	1.75	0.51
3:K:19:ARG:HE	3:K:79:TYR:HB3	1.75	0.51
1:B:365:LYS:O	1:B:369:LEU:HG	2.10	0.51
1:B:909:ASN:HA	1:B:965:TYR:HA	1.92	0.51
1:B:1128:ARG:HH12	1:B:1132:TRP:HZ2	1.58	0.51
1:B:1964:ARG:O	1:B:1968:LYS:HG3	2.11	0.51
1:B:2321:ILE:HD11	1:B:2418:LEU:HB2	1.93	0.51
1:B:3051:ARG:HH22	1:B:3102:ASP:HB2	1.75	0.51
1:E:622:THR:HG23	1:E:626:LEU:HD22	1.92	0.51
1:E:2760:GLU:HA	1:E:2802:LYS:NZ	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2893:GLU:O	1:E:2897:LYS:HG2	2.11	0.51
1:G:470:SER:HA	1:G:473:ASN:HD21	1.76	0.51
1:G:489:ASN:OD1	1:G:493:ARG:NH1	2.44	0.51
1:G:881:LEU:O	1:G:885:THR:HG23	2.10	0.51
1:G:1128:ARG:HH12	1:G:1132:TRP:HZ2	1.58	0.51
1:G:1130:GLN:HG2	1:G:1138:PRO:HA	1.91	0.51
1:G:2142:TYR:CG	1:G:2197:LEU:HD13	2.45	0.51
1:G:2198:MET:HA	1:G:2203:MET:HE1	1.93	0.51
1:G:3018:LEU:HD21	1:G:3150:HIS:CE1	2.46	0.51
1:G:3946:GLN:OE1	1:G:3949:ARG:NH2	2.43	0.51
1:J:1035:ASN:OD1	3:K:109:THR:OG1	2.26	0.51
1:J:3442:PHE:HE1	1:J:3510:ILE:HG22	1.76	0.51
1:J:3986:TRP:HB3	1:J:4047:MET:SD	2.51	0.51
2:I:31:GLN:OE1	2:I:96:THR:N	2.44	0.51
1:B:355:LEU:HB3	1:B:378:LEU:HB3	1.93	0.51
1:B:1615:VAL:HG13	1:B:1630:CYS:HB2	1.94	0.51
1:B:2793:PRO:O	1:B:2797:PHE:N	2.44	0.51
1:B:3442:PHE:HE1	1:B:3510:ILE:HG22	1.76	0.51
1:B:3946:GLN:OE1	1:B:3949:ARG:NH2	2.43	0.51
1:E:355:LEU:HB3	1:E:378:LEU:HB3	1.93	0.51
1:E:470:SER:HA	1:E:473:ASN:HD21	1.76	0.51
1:E:3051:ARG:HA	1:E:3131:TYR:CZ	2.46	0.51
1:E:3996:PHE:HZ	1:E:4019:LEU:HG	1.76	0.51
1:G:1439:VAL:HB	1:G:1514:LEU:HB3	1.92	0.51
1:G:1870:VAL:HG11	1:G:2097:LEU:HD22	1.92	0.51
1:G:2321:ILE:HD11	1:G:2418:LEU:HB2	1.93	0.51
1:G:2362:GLU:HA	1:G:2369:ARG:HH22	1.76	0.51
1:G:2893:GLU:O	1:G:2897:LYS:HG2	2.11	0.51
1:G:3021:PRO:HD3	1:G:3036:LYS:HZ3	1.75	0.51
1:G:3051:ARG:HA	1:G:3131:TYR:CZ	2.46	0.51
1:G:4243:PHE:O	1:G:4247:ILE:HG13	2.11	0.51
2:I:23:VAL:HG12	2:I:47:LYS:HG3	1.91	0.51
1:B:764:VAL:HG12	1:B:766:GLY:H	1.77	0.50
1:B:965:TYR:O	1:B:967:PRO:HD3	2.11	0.50
1:B:1945:TYR:O	1:B:1949:GLN:HG2	2.11	0.50
1:B:2233:CYS:HB2	1:B:2270:SER:HB3	1.93	0.50
1:B:3399:SER:O	1:B:3403:ARG:HG3	2.09	0.50
1:B:3889:GLN:HB2	1:B:3967:GLU:HG2	1.93	0.50
1:E:1820:ARG:HH12	1:E:1865:MET:HE3	1.75	0.50
1:E:2321:ILE:HD11	1:E:2418:LEU:HB2	1.93	0.50
1:E:3967:GLU:CA	1:E:3970:GLN:HG2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4090:LYS:HD3	1:E:4112:LEU:HD13	1.93	0.50
1:G:2257:LEU:HD22	1:G:2272:PRO:HB3	1.93	0.50
1:G:3316:LEU:HD22	1:G:3353:LEU:HD13	1.92	0.50
1:G:3442:PHE:HE1	1:G:3510:ILE:HG22	1.76	0.50
1:G:3973:CYS:SG	1:G:3976:ASN:HB2	2.51	0.50
1:J:870:ILE:HD12	1:J:1051:TYR:CZ	2.46	0.50
1:J:1748:PHE:HD1	1:J:1749:PRO:HD2	1.75	0.50
1:J:1813:ARG:HH22	1:J:1814:MET:HE2	1.75	0.50
1:J:2321:ILE:HD11	1:J:2418:LEU:HB2	1.93	0.50
1:J:4090:LYS:HD3	1:J:4112:LEU:HD13	1.93	0.50
2:H:31:GLN:OE1	2:H:96:THR:N	2.44	0.50
1:B:2175:GLU:O	1:B:2179:ILE:HG12	2.11	0.50
1:B:3317:GLY:O	1:B:3321:ARG:HG2	2.11	0.50
1:E:960:MET:HG3	1:E:966:LYS:HE3	1.92	0.50
1:E:2142:TYR:CG	1:E:2197:LEU:HD13	2.46	0.50
1:E:2206:THR:O	1:E:2210:VAL:HG23	2.12	0.50
1:E:2574:HIS:CD2	1:E:2575:ARG:HG2	2.46	0.50
1:E:2902:HIS:O	1:E:2905:LEU:HB3	2.11	0.50
1:E:3405:LEU:HG	1:E:3409:TYR:CE1	2.45	0.50
1:G:792:LEU:HA	1:G:798:GLY:HA3	1.92	0.50
1:G:1438:ARG:HG3	1:G:1513:ASP:HB3	1.93	0.50
1:G:2175:GLU:O	1:G:2179:ILE:HG12	2.11	0.50
1:G:2463:LEU:HD21	1:G:2517:PHE:HE1	1.77	0.50
1:G:3756:LYS:O	1:G:3760:LYS:HG2	2.10	0.50
1:J:276:TRP:HZ3	1:J:346:CYS:HA	1.75	0.50
1:J:1615:VAL:HG13	1:J:1630:CYS:HB2	1.93	0.50
1:J:2902:HIS:O	1:J:2905:LEU:HB3	2.12	0.50
1:J:3445:TRP:CD1	1:J:3509:LEU:HD22	2.46	0.50
3:C:19:ARG:HE	3:C:79:TYR:HB3	1.76	0.50
3:M:34:MET:CE	3:M:95:CYS:HB2	2.40	0.50
1:B:2142:TYR:CG	1:B:2197:LEU:HD13	2.45	0.50
1:B:2257:LEU:HD22	1:B:2272:PRO:HB3	1.93	0.50
1:B:3400:VAL:HG23	1:B:3403:ARG:HE	1.76	0.50
1:B:3445:TRP:CD1	1:B:3509:LEU:HD22	2.46	0.50
1:B:3996:PHE:HZ	1:B:4019:LEU:HG	1.76	0.50
1:E:451:TYR:CZ	1:E:474:ARG:HD2	2.47	0.50
1:E:2755:ILE:HG22	1:E:2810:LYS:HZ1	1.76	0.50
1:G:355:LEU:HB3	1:G:378:LEU:HB3	1.93	0.50
1:G:1778:SER:HB2	1:G:1798:LEU:HB2	1.92	0.50
1:G:2902:HIS:O	1:G:2905:LEU:HB3	2.11	0.50
1:G:3445:TRP:CD1	1:G:3509:LEU:HD22	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3775:ALA:HA	1:G:3778:MET:HG3	1.93	0.50
1:G:3986:TRP:HB3	1:G:4047:MET:SD	2.51	0.50
1:J:489:ASN:OD1	1:J:493:ARG:NH1	2.44	0.50
1:J:2463:LEU:HD21	1:J:2517:PHE:HE1	1.77	0.50
3:K:111:ASN:HA	3:K:114:TYR:CD2	2.38	0.50
1:B:247:TYR:HE2	1:B:359:TYR:HA	1.76	0.50
1:B:2902:HIS:O	1:B:2905:LEU:HB3	2.11	0.50
1:B:3986:TRP:HB3	1:B:4047:MET:SD	2.51	0.50
1:E:937:CYS:SG	1:E:938:HIS:N	2.85	0.50
1:E:3889:GLN:HB2	1:E:3967:GLU:HG2	1.94	0.50
1:E:3973:CYS:SG	1:E:3976:ASN:HB2	2.51	0.50
1:E:4918:ILE:HA	1:J:4892:ARG:HH22	1.76	0.50
1:G:1581:LEU:HA	1:G:1584:ARG:HE	1.77	0.50
1:G:3536:ALA:HB2	1:G:3553:LEU:HD21	1.92	0.50
1:G:4063:ASP:HB2	1:G:4067:LYS:HE3	1.94	0.50
1:G:4122:MET:HE1	1:G:4123:ILE:HG12	1.92	0.50
1:J:937:CYS:SG	1:J:938:HIS:N	2.85	0.50
1:J:1964:ARG:O	1:J:1968:LYS:HG3	2.11	0.50
1:J:2630:VAL:HG13	1:J:2682:ILE:HD11	1.93	0.50
1:J:2760:GLU:HA	1:J:2802:LYS:NZ	2.26	0.50
1:J:3973:CYS:SG	1:J:3976:ASN:HB2	2.51	0.50
1:B:937:CYS:SG	1:B:938:HIS:N	2.85	0.50
1:B:2463:LEU:HD21	1:B:2517:PHE:HE1	1.77	0.50
1:B:3332:ALA:HB1	1:B:3335:MET:HE3	1.93	0.50
1:B:3775:ALA:HA	1:B:3778:MET:HG3	1.93	0.50
1:E:764:VAL:HG12	1:E:766:GLY:H	1.77	0.50
1:E:985:VAL:HG22	1:E:1043:VAL:HG21	1.93	0.50
1:E:2814:LYS:HA	1:E:2817:ILE:HG12	1.93	0.50
1:E:3018:LEU:HD21	1:E:3150:HIS:CE1	2.46	0.50
1:G:1973:GLN:HE22	1:G:3641:LEU:H	1.59	0.50
1:J:2893:GLU:O	1:J:2897:LYS:HG2	2.11	0.50
1:J:4080:TYR:CG	1:J:4096:ALA:HB2	2.46	0.50
1:J:4096:ALA:O	1:J:4099:SER:OG	2.23	0.50
2:A:31:GLN:OE1	2:A:96:THR:N	2.44	0.50
1:B:360:ALA:HA	1:B:377:ILE:CD1	2.41	0.50
1:B:1860:LYS:O	1:B:1864:LYS:HG2	2.12	0.50
1:B:2755:ILE:HG22	1:B:2810:LYS:HZ1	1.76	0.50
1:B:2760:GLU:HA	1:B:2802:LYS:NZ	2.26	0.50
1:E:360:ALA:HA	1:E:377:ILE:CD1	2.41	0.50
1:E:1860:LYS:O	1:E:1864:LYS:HG2	2.12	0.50
1:E:2198:MET:HA	1:E:2203:MET:HE1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3442:PHE:HE1	1:E:3510:ILE:HG22	1.76	0.50
1:G:909:ASN:HA	1:G:965:TYR:HA	1.92	0.50
1:G:1615:VAL:HG13	1:G:1630:CYS:HB2	1.94	0.50
1:G:2760:GLU:HA	1:G:2802:LYS:NZ	2.26	0.50
1:G:3317:GLY:O	1:G:3321:ARG:HG2	2.11	0.50
1:J:470:SER:HA	1:J:473:ASN:HD21	1.76	0.50
1:J:3018:LEU:HD21	1:J:3150:HIS:CE1	2.46	0.50
1:J:3021:PRO:HD3	1:J:3036:LYS:HZ3	1.76	0.50
3:K:38:ARG:O	3:K:45:ARG:HA	2.12	0.50
1:B:932:LEU:HD13	1:B:988:LEU:HD11	1.94	0.50
1:B:4063:ASP:HB2	1:B:4067:LYS:HE3	1.94	0.50
1:B:4779:LYS:HA	1:B:4782:VAL:HG22	1.94	0.50
1:E:932:LEU:HD13	1:E:988:LEU:HD11	1.94	0.50
1:G:985:VAL:HG22	1:G:1043:VAL:HG21	1.93	0.50
1:G:1860:LYS:O	1:G:1864:LYS:HG2	2.12	0.50
1:G:4577:LEU:O	1:G:4580:TYR:HD1	1.95	0.50
1:J:144:GLU:HA	1:J:147:TRP:HD1	1.77	0.50
1:J:2206:THR:O	1:J:2210:VAL:HG23	2.12	0.50
1:J:2814:LYS:HA	1:J:2817:ILE:HG12	1.93	0.50
1:B:526:LEU:HD11	1:B:540:PHE:CZ	2.47	0.50
1:E:144:GLU:HA	1:E:147:TRP:HD1	1.77	0.50
1:E:823:LEU:HD12	1:E:1617:THR:HB	1.94	0.50
1:E:2764:GLU:HG2	1:E:2857:PRO:HD3	1.94	0.50
1:E:4779:LYS:HA	1:E:4782:VAL:HG22	1.94	0.50
1:G:891:TRP:HE1	1:G:904:HIS:HB2	1.76	0.50
1:G:1964:ARG:O	1:G:1968:LYS:HG3	2.11	0.50
1:G:3547:GLU:O	1:G:3551:GLU:HG2	2.11	0.50
1:G:3641:LEU:HD12	1:G:3644:LEU:HD12	1.94	0.50
1:J:1438:ARG:HG3	1:J:1513:ASP:HB3	1.93	0.50
1:J:1581:LEU:HA	1:J:1584:ARG:HE	1.77	0.50
1:J:2764:GLU:HG2	1:J:2857:PRO:HD3	1.94	0.50
1:J:2883:HIS:CE1	1:J:2911:LEU:HD21	2.47	0.50
1:J:3403:ARG:HG2	1:J:3458:PHE:CD1	2.47	0.50
1:J:4577:LEU:O	1:J:4580:TYR:HD1	1.95	0.50
1:B:823:LEU:HD12	1:B:1617:THR:HB	1.94	0.50
1:B:1438:ARG:HG3	1:B:1513:ASP:HB3	1.93	0.50
1:B:2198:MET:HA	1:B:2203:MET:HE1	1.93	0.50
1:B:2883:HIS:CE1	1:B:2911:LEU:HD21	2.47	0.50
1:B:3967:GLU:CA	1:B:3970:GLN:HG2	2.39	0.50
1:B:4229:GLU:OE1	1:B:4229:GLU:N	2.37	0.50
1:E:73:LEU:O	1:E:106:ALA:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1024:TYR:HA	1:E:1027:LEU:HG	1.94	0.50
1:E:2463:LEU:HD21	1:E:2517:PHE:HE1	1.77	0.50
1:E:2692:ASP:HB3	1:E:2695:LEU:HB3	1.94	0.50
1:G:965:TYR:O	1:G:967:PRO:HD3	2.11	0.50
1:G:1243:PRO:O	1:G:1458:HIS:ND1	2.31	0.50
1:G:2233:CYS:HB2	1:G:2270:SER:HB3	1.93	0.50
1:G:2559:LEU:O	1:G:2563:THR:HG23	2.12	0.50
1:G:4090:LYS:HD3	1:G:4112:LEU:HD13	1.93	0.50
1:G:4725:LEU:HA	1:G:4737:ILE:HG21	1.93	0.50
1:G:4892:ARG:HH22	1:J:4918:ILE:HA	1.77	0.50
1:J:355:LEU:HB3	1:J:378:LEU:HB3	1.93	0.50
1:J:1862:ILE:HA	1:J:1865:MET:HG2	1.93	0.50
1:J:3051:ARG:HA	1:J:3131:TYR:CZ	2.46	0.50
1:B:470:SER:HA	1:B:473:ASN:ND2	2.27	0.49
1:B:682:LEU:HD23	1:B:738:LEU:HB3	1.94	0.49
1:B:2206:THR:O	1:B:2210:VAL:HG23	2.12	0.49
1:B:3051:ARG:HA	1:B:3131:TYR:CZ	2.46	0.49
1:B:3536:ALA:HB2	1:B:3553:LEU:HD21	1.92	0.49
1:E:657:THR:O	1:E:1007:TYR:N	2.34	0.49
1:E:3047:ALA:HB1	1:E:3095:PHE:CE1	2.47	0.49
1:E:4080:TYR:CG	1:E:4096:ALA:HB2	2.46	0.49
1:E:4577:LEU:O	1:E:4580:TYR:HD1	1.95	0.49
1:G:73:LEU:O	1:G:106:ALA:N	2.45	0.49
1:G:247:TYR:HE2	1:G:359:TYR:HA	1.77	0.49
1:G:537:CYS:HB3	1:G:571:SER:OG	2.12	0.49
1:G:764:VAL:HG12	1:G:766:GLY:H	1.76	0.49
1:G:2630:VAL:HG13	1:G:2682:ILE:HD11	1.93	0.49
1:G:3332:ALA:HB1	1:G:3335:MET:HE3	1.93	0.49
1:J:823:LEU:HD12	1:J:1617:THR:HB	1.94	0.49
1:J:1860:LYS:O	1:J:1864:LYS:HG2	2.12	0.49
1:J:2233:CYS:HB2	1:J:2270:SER:HB3	1.93	0.49
1:J:2692:ASP:HB3	1:J:2695:LEU:HB3	1.94	0.49
3:M:38:ARG:O	3:M:45:ARG:HA	2.11	0.49
1:B:451:TYR:CZ	1:B:474:ARG:HD2	2.47	0.49
1:B:1973:GLN:HE22	1:B:3641:LEU:H	1.59	0.49
1:B:2814:LYS:HA	1:B:2817:ILE:HG12	1.93	0.49
1:B:3047:ALA:HB1	1:B:3095:PHE:CE1	2.47	0.49
1:B:3974:THR:O	1:B:3978:GLN:HG2	2.12	0.49
1:B:4090:LYS:HD3	1:B:4112:LEU:HD13	1.93	0.49
1:B:4096:ALA:O	1:B:4099:SER:OG	2.23	0.49
1:B:4865:LYS:HZ2	1:B:4901:ILE:HG22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:526:LEU:HD11	1:E:540:PHE:CZ	2.47	0.49
1:E:1615:VAL:HG13	1:E:1630:CYS:HB2	1.93	0.49
1:E:1862:ILE:HA	1:E:1865:MET:HG2	1.93	0.49
1:E:2175:GLU:O	1:E:2179:ILE:HG12	2.11	0.49
1:E:3974:THR:O	1:E:3978:GLN:HG2	2.12	0.49
1:G:886:ARG:HB3	1:G:891:TRP:HB3	1.94	0.49
1:G:932:LEU:HD13	1:G:988:LEU:HD11	1.94	0.49
1:G:1862:ILE:HA	1:G:1865:MET:HG2	1.93	0.49
1:G:2823:ILE:HD12	1:G:2935:TYR:CD1	2.47	0.49
1:G:3337:ARG:HD3	1:G:3337:ARG:C	2.32	0.49
1:J:451:TYR:CZ	1:J:474:ARG:HD2	2.47	0.49
1:J:682:LEU:HD23	1:J:738:LEU:HB3	1.94	0.49
1:J:932:LEU:HD13	1:J:988:LEU:HD11	1.94	0.49
1:J:2823:ILE:HD12	1:J:2935:TYR:CD1	2.47	0.49
1:J:4063:ASP:HB2	1:J:4067:LYS:HE3	1.94	0.49
3:F:38:ARG:O	3:F:45:ARG:HA	2.11	0.49
3:F:111:ASN:HA	3:F:114:TYR:CD2	2.37	0.49
1:B:73:LEU:O	1:B:106:ALA:N	2.45	0.49
1:B:266:ARG:HG2	1:B:268:SER:H	1.74	0.49
1:B:1024:TYR:HA	1:B:1027:LEU:HG	1.94	0.49
1:E:470:SER:HA	1:E:473:ASN:ND2	2.27	0.49
1:E:1973:GLN:HE22	1:E:3641:LEU:H	1.59	0.49
1:E:2823:ILE:HD12	1:E:2935:TYR:CD1	2.47	0.49
1:E:4821:LYS:O	1:E:4825:THR:HG23	2.13	0.49
1:G:470:SER:HA	1:G:473:ASN:ND2	2.27	0.49
1:G:870:ILE:HD12	1:G:1051:TYR:CZ	2.46	0.49
1:G:3194:LEU:HA	1:G:3197:LEU:HG	1.93	0.49
1:J:537:CYS:HB3	1:J:571:SER:OG	2.12	0.49
1:J:2266:GLY:HA2	1:J:2271:THR:HG21	1.95	0.49
1:J:3317:GLY:O	1:J:3321:ARG:HG2	2.11	0.49
1:J:3923:LEU:HD22	1:J:3965:LEU:CD1	2.42	0.49
1:J:4115:SER:HB3	1:J:4122:MET:HE2	1.94	0.49
3:C:33:SER:OG	3:C:101:PRO:HA	2.12	0.49
3:C:38:ARG:O	3:C:45:ARG:HA	2.12	0.49
1:B:489:ASN:OD1	1:B:493:ARG:NH1	2.44	0.49
1:B:1477:GLY:HA2	1:B:1483:VAL:HA	1.94	0.49
1:B:4232:GLU:OE1	1:B:5019:TRP:NE1	2.45	0.49
1:B:4243:PHE:O	1:B:4247:ILE:HG13	2.11	0.49
1:B:4892:ARG:HH22	1:G:4918:ILE:HA	1.77	0.49
1:E:365:LYS:O	1:E:369:LEU:HG	2.12	0.49
1:E:2257:LEU:HD22	1:E:2272:PRO:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3403:ARG:HG2	1:E:3458:PHE:CD1	2.47	0.49
1:G:906:CYS:O	1:G:908:VAL:HG23	2.11	0.49
1:G:2692:ASP:HB3	1:G:2695:LEU:HB3	1.94	0.49
1:J:886:ARG:HB3	1:J:891:TRP:HB3	1.94	0.49
1:J:2142:TYR:CZ	1:J:2197:LEU:HB2	2.48	0.49
1:J:4725:LEU:HA	1:J:4737:ILE:HG21	1.93	0.49
2:A:18:LYS:HA	2:A:50:ILE:HG23	1.95	0.49
1:B:144:GLU:HA	1:B:147:TRP:HD1	1.77	0.49
1:B:2823:ILE:HD12	1:B:2935:TYR:CD1	2.47	0.49
1:B:3194:LEU:HA	1:B:3197:LEU:HG	1.93	0.49
1:B:4577:LEU:O	1:B:4580:TYR:HD1	1.95	0.49
1:B:4725:LEU:HA	1:B:4737:ILE:HG21	1.93	0.49
1:E:247:TYR:HB2	1:E:374:LYS:HB2	1.95	0.49
1:E:489:ASN:OD1	1:E:493:ARG:NH1	2.44	0.49
1:E:3317:GLY:O	1:E:3321:ARG:HG2	2.11	0.49
1:E:4243:PHE:O	1:E:4247:ILE:HG13	2.11	0.49
1:G:937:CYS:SG	1:G:938:HIS:N	2.85	0.49
1:G:2206:THR:O	1:G:2210:VAL:HG23	2.12	0.49
1:G:2764:GLU:HG2	1:G:2857:PRO:HD3	1.94	0.49
1:G:3403:ARG:HG2	1:G:3458:PHE:CD1	2.47	0.49
1:G:3974:THR:O	1:G:3978:GLN:HG2	2.12	0.49
1:G:4229:GLU:OE1	1:G:4229:GLU:N	2.37	0.49
1:G:4779:LYS:HA	1:G:4782:VAL:HG22	1.94	0.49
1:J:1945:TYR:O	1:J:1949:GLN:HG2	2.11	0.49
1:J:3047:ALA:HB1	1:J:3095:PHE:CE1	2.47	0.49
2:I:78:PRO:O	2:I:83:GLY:N	2.40	0.49
1:B:358:THR:HG21	1:B:382:GLY:HA2	1.95	0.49
1:B:537:CYS:HB3	1:B:571:SER:OG	2.12	0.49
1:B:886:ARG:HB3	1:B:891:TRP:HB3	1.94	0.49
1:B:2559:LEU:O	1:B:2563:THR:HG23	2.12	0.49
1:B:3403:ARG:HG2	1:B:3458:PHE:CD1	2.47	0.49
1:B:3457:ASN:O	1:B:3461:GLN:HG2	2.13	0.49
1:E:195:PHE:CE2	1:J:2359:ARG:HA	2.47	0.49
1:E:1708:ARG:O	1:E:1712:TYR:HD1	1.96	0.49
1:E:3986:TRP:HB3	1:E:4047:MET:SD	2.51	0.49
1:G:1035:ASN:OD1	3:M:109:THR:OG1	2.26	0.49
1:G:1477:GLY:HA2	1:G:1483:VAL:HA	1.94	0.49
1:G:3400:VAL:HG23	1:G:3403:ARG:HE	1.76	0.49
1:G:3889:GLN:HB2	1:G:3967:GLU:HG2	1.93	0.49
1:G:4821:LYS:O	1:G:4825:THR:HG23	2.13	0.49
1:J:526:LEU:HD11	1:J:540:PHE:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:5012:LYS:O	1:J:5016:GLU:HG2	2.13	0.49
1:B:2973:PHE:CD1	1:B:2995:ILE:HG12	2.48	0.49
1:E:886:ARG:HB3	1:E:891:TRP:HB3	1.94	0.49
1:E:4725:LEU:HA	1:E:4737:ILE:HG21	1.93	0.49
1:G:144:GLU:HA	1:G:147:TRP:HD1	1.77	0.49
1:G:636:ASN:ND2	2:H:35:LYS:HG2	2.28	0.49
1:G:3676:ASP:HA	1:G:3679:LYS:HE2	1.95	0.49
1:J:2198:MET:HA	1:J:2203:MET:HE1	1.93	0.49
1:J:2431:ASP:O	1:J:2435:ARG:HG3	2.13	0.49
1:J:2755:ILE:HG22	1:J:2810:LYS:HZ1	1.76	0.49
2:D:18:LYS:HA	2:D:50:ILE:HG23	1.95	0.49
1:B:657:THR:O	1:B:1007:TYR:N	2.34	0.49
1:B:1816:GLY:O	1:B:1820:ARG:HG2	2.13	0.49
1:B:2142:TYR:CZ	1:B:2197:LEU:HB2	2.48	0.49
1:B:2266:GLY:HA2	1:B:2271:THR:HG21	1.95	0.49
1:B:2359:ARG:HA	1:G:195:PHE:CE2	2.48	0.49
1:B:2582:MET:HA	1:B:2585:THR:HG22	1.95	0.49
1:B:3337:ARG:HD3	1:B:3337:ARG:C	2.32	0.49
1:B:4821:LYS:O	1:B:4825:THR:HG23	2.13	0.49
1:E:4063:ASP:HB2	1:E:4067:LYS:HE3	1.94	0.49
1:E:4860:ARG:HD2	1:E:4877:ASP:OD1	2.13	0.49
1:G:451:TYR:CZ	1:G:474:ARG:HD2	2.47	0.49
1:G:526:LEU:HD11	1:G:540:PHE:HZ	1.78	0.49
1:G:2142:TYR:CZ	1:G:2197:LEU:HB2	2.48	0.49
1:G:2359:ARG:HA	1:J:195:PHE:CE2	2.48	0.49
1:J:671:VAL:HB	1:J:740:PRO:HD3	1.95	0.49
1:J:764:VAL:HG12	1:J:766:GLY:H	1.76	0.49
1:J:1024:TYR:HA	1:J:1027:LEU:HG	1.94	0.49
1:J:3889:GLN:HB2	1:J:3967:GLU:HG2	1.94	0.49
1:B:195:PHE:CE2	1:E:2359:ARG:HA	2.48	0.49
1:B:924:MET:HB2	3:C:107:TRP:CE3	2.47	0.49
1:B:993:HIS:CE1	1:B:1027:LEU:HD11	2.48	0.49
1:B:1862:ILE:HA	1:B:1865:MET:HG2	1.93	0.49
1:E:232:THR:HG21	1:E:252:VAL:HG11	1.95	0.49
1:E:993:HIS:CE1	1:E:1027:LEU:HD11	2.48	0.49
1:E:2559:LEU:O	1:E:2563:THR:HG23	2.12	0.49
1:E:2883:HIS:CE1	1:E:2911:LEU:HD21	2.47	0.49
1:E:3337:ARG:HD3	1:E:3337:ARG:C	2.33	0.49
1:G:823:LEU:HD12	1:G:1617:THR:HB	1.94	0.49
1:G:924:MET:HE1	3:M:106:PRO:HG2	1.95	0.49
1:G:2814:LYS:HA	1:G:2817:ILE:HG12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2883:HIS:CE1	1:G:2911:LEU:HD21	2.47	0.49
1:G:3457:ASN:O	1:G:3461:GLN:HG2	2.13	0.49
1:G:3812:VAL:HG22	1:G:3816:MET:HE2	1.95	0.49
1:G:3919:THR:HG21	1:G:3968:TYR:HE2	1.78	0.49
1:J:470:SER:HA	1:J:473:ASN:ND2	2.27	0.49
1:J:526:LEU:HD11	1:J:540:PHE:HZ	1.77	0.49
1:J:952:LYS:HA	1:J:971:ASP:H	1.77	0.49
1:J:2364:PHE:HD1	1:J:2429:LEU:HD21	1.78	0.49
1:J:2973:PHE:CD1	1:J:2995:ILE:HG12	2.48	0.49
1:J:4184:MET:HB2	1:J:5023:PRO:HA	1.95	0.49
1:B:996:TRP:CZ2	3:C:113:GLU:HB3	2.48	0.49
1:B:1708:ARG:O	1:B:1712:TYR:HD1	1.95	0.49
1:B:2619:LEU:HG	1:B:2623:LEU:HG	1.95	0.49
1:B:2764:GLU:HG2	1:B:2857:PRO:HD3	1.94	0.49
1:B:2880:GLU:HA	1:B:2908:TYR:CG	2.48	0.49
1:E:875:ALA:O	1:E:879:HIS:ND1	2.46	0.49
1:E:1816:GLY:O	1:E:1820:ARG:HG2	2.13	0.49
1:E:2431:ASP:O	1:E:2435:ARG:HG3	2.13	0.49
1:E:2619:LEU:HG	1:E:2623:LEU:HG	1.95	0.49
1:G:993:HIS:CE1	1:G:1027:LEU:HD11	2.48	0.49
1:G:1816:GLY:O	1:G:1820:ARG:HG2	2.13	0.49
1:G:2266:GLY:HA2	1:G:2271:THR:HG21	1.95	0.49
1:G:2973:PHE:CD1	1:G:2995:ILE:HG12	2.48	0.49
1:G:3047:ALA:HB1	1:G:3095:PHE:CE1	2.47	0.49
1:G:5012:LYS:O	1:G:5016:GLU:HG2	2.13	0.49
1:J:1973:GLN:HE22	1:J:3641:LEU:H	1.59	0.49
1:B:232:THR:HG21	1:B:252:VAL:HG11	1.95	0.48
1:B:3641:LEU:HD12	1:B:3644:LEU:HD12	1.94	0.48
1:B:4541:TRP:O	1:B:4545:GLU:HG2	2.13	0.48
1:E:2881:ASN:HA	1:E:2884:ASN:HD21	1.77	0.48
1:E:2973:PHE:CD1	1:E:2995:ILE:HG12	2.48	0.48
1:E:3249:LEU:O	1:E:3253:ILE:HG12	2.13	0.48
1:E:3812:VAL:HG22	1:E:3816:MET:HE2	1.95	0.48
1:G:246:TYR:CD1	1:G:373:LYS:HG3	2.48	0.48
1:G:1042:ALA:O	1:G:1045:THR:OG1	2.20	0.48
1:G:1945:TYR:O	1:G:1949:GLN:HG2	2.11	0.48
1:G:2880:GLU:HA	1:G:2908:TYR:CG	2.48	0.48
1:G:4104:THR:O	1:G:4108:ILE:HG12	2.13	0.48
1:G:4860:ARG:HD2	1:G:4877:ASP:OD1	2.13	0.48
1:J:1477:GLY:HA2	1:J:1483:VAL:HA	1.94	0.48
1:J:1816:GLY:O	1:J:1820:ARG:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2439:GLU:HB2	1:J:2442:LEU:HG	1.95	0.48
1:J:2559:LEU:O	1:J:2563:THR:HG23	2.12	0.48
1:J:2806:ARG:HG3	1:J:2810:LYS:HZ3	1.78	0.48
1:J:3337:ARG:HD3	1:J:3337:ARG:C	2.32	0.48
1:J:3811:GLU:O	1:J:3814:GLN:HG3	2.13	0.48
1:J:4865:LYS:HZ2	1:J:4901:ILE:HG22	1.78	0.48
1:B:488:LEU:HD11	1:B:540:PHE:CE1	2.48	0.48
1:B:665:GLU:HB3	1:B:792:LEU:HB2	1.95	0.48
1:B:2806:ARG:HG3	1:B:2810:LYS:HZ3	1.78	0.48
1:B:5012:LYS:O	1:B:5016:GLU:HG2	2.13	0.48
1:E:526:LEU:HD11	1:E:540:PHE:HZ	1.77	0.48
1:E:682:LEU:HD23	1:E:738:LEU:HB3	1.94	0.48
1:G:358:THR:HG21	1:G:382:GLY:HA2	1.95	0.48
1:G:526:LEU:HD11	1:G:540:PHE:CZ	2.47	0.48
1:G:904:HIS:CD2	1:G:907:LEU:H	2.31	0.48
1:G:2582:MET:HA	1:G:2585:THR:HG22	1.95	0.48
1:G:2673:HIS:HD2	1:G:2716:ASP:HB2	1.78	0.48
1:G:2823:ILE:HB	1:G:2935:TYR:HD1	1.79	0.48
1:J:665:GLU:HB3	1:J:792:LEU:HB2	1.95	0.48
1:J:875:ALA:O	1:J:879:HIS:ND1	2.46	0.48
1:J:1708:ARG:O	1:J:1712:TYR:HD1	1.96	0.48
1:J:2673:HIS:HD2	1:J:2716:ASP:HB2	1.78	0.48
1:J:2823:ILE:HB	1:J:2935:TYR:HD1	1.78	0.48
1:J:3641:LEU:HD12	1:J:3644:LEU:HD12	1.94	0.48
1:J:3974:THR:O	1:J:3978:GLN:HG2	2.12	0.48
1:J:4779:LYS:HA	1:J:4782:VAL:HG22	1.94	0.48
1:J:4821:LYS:O	1:J:4825:THR:HG23	2.13	0.48
2:A:7:ILE:HG22	2:A:71:ARG:O	2.14	0.48
3:M:105:ASN:OD1	3:M:107:TRP:HB3	2.13	0.48
1:B:1581:LEU:HA	1:B:1584:ARG:HE	1.77	0.48
1:B:2431:ASP:O	1:B:2435:ARG:HG3	2.13	0.48
1:B:2692:ASP:HB3	1:B:2695:LEU:HB3	1.94	0.48
1:B:2819:TRP:NE1	1:B:2881:ASN:OD1	2.36	0.48
1:B:3812:VAL:HG22	1:B:3816:MET:HE2	1.96	0.48
1:E:223:PHE:CD1	1:E:230:CYS:HB3	2.49	0.48
1:E:1256:GLU:OE1	1:E:1275:ARG:NH2	2.47	0.48
1:E:1581:LEU:HA	1:E:1584:ARG:HE	1.77	0.48
1:E:2582:MET:HA	1:E:2585:THR:HG22	1.95	0.48
1:E:2673:HIS:HD2	1:E:2716:ASP:HB2	1.78	0.48
1:E:3676:ASP:HA	1:E:3679:LYS:HE2	1.95	0.48
1:E:3923:LEU:HD22	1:E:3965:LEU:CD1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3946:GLN:OE1	1:E:3949:ARG:NH2	2.43	0.48
1:G:671:VAL:HB	1:G:740:PRO:HD3	1.95	0.48
1:G:869:ARG:HE	1:G:941:MET:HE3	1.78	0.48
1:G:875:ALA:O	1:G:879:HIS:ND1	2.46	0.48
1:G:1100:MET:SD	1:G:1194:LEU:HG	2.54	0.48
1:G:3249:LEU:O	1:G:3253:ILE:HG12	2.13	0.48
1:G:3923:LEU:HD22	1:G:3965:LEU:CD1	2.42	0.48
1:G:4865:LYS:HZ2	1:G:4901:ILE:HG22	1.77	0.48
1:J:2257:LEU:HD22	1:J:2272:PRO:HB3	1.94	0.48
1:J:2881:ASN:HA	1:J:2884:ASN:HD21	1.77	0.48
1:J:3093:ARG:O	1:J:3097:GLU:HG2	2.13	0.48
1:J:3144:PHE:CD2	1:J:3197:LEU:HB3	2.48	0.48
1:J:3416:VAL:HG23	1:J:3423:TRP:HZ3	1.79	0.48
3:M:66:ARG:HG2	3:M:84:SER:HB3	1.95	0.48
1:B:2673:HIS:HD2	1:B:2716:ASP:HB2	1.78	0.48
1:B:3093:ARG:O	1:B:3097:GLU:HG2	2.14	0.48
1:B:3847:PHE:HZ	1:B:3937:TYR:HH	1.62	0.48
1:E:2142:TYR:CZ	1:E:2197:LEU:HB2	2.48	0.48
1:E:3144:PHE:CD2	1:E:3197:LEU:HB3	2.49	0.48
1:G:2439:GLU:HB2	1:G:2442:LEU:HG	1.95	0.48
1:G:3539:ARG:HD3	1:G:3542:LEU:HD12	1.96	0.48
1:G:4031:LEU:HD13	1:G:4044:MET:HG3	1.95	0.48
1:J:73:LEU:O	1:J:106:ALA:N	2.45	0.48
1:J:1858:ASP:O	1:J:1862:ILE:HG13	2.14	0.48
1:J:3539:ARG:HD3	1:J:3542:LEU:HD12	1.96	0.48
2:D:7:ILE:HG22	2:D:71:ARG:O	2.14	0.48
2:I:7:ILE:HG22	2:I:71:ARG:O	2.14	0.48
1:B:223:PHE:CD1	1:B:230:CYS:HB3	2.48	0.48
1:B:2364:PHE:HD1	1:B:2429:LEU:HD21	1.78	0.48
1:B:3144:PHE:CD2	1:B:3197:LEU:HB3	2.48	0.48
1:B:3919:THR:HG21	1:B:3968:TYR:HE2	1.79	0.48
1:B:4860:ARG:HD2	1:B:4877:ASP:OD1	2.13	0.48
1:E:360:ALA:HA	1:E:377:ILE:HD13	1.94	0.48
1:E:2364:PHE:HD1	1:E:2429:LEU:HD21	1.78	0.48
1:E:2883:HIS:HE1	1:E:2904:LEU:O	1.97	0.48
1:E:3641:LEU:HD12	1:E:3644:LEU:HD12	1.94	0.48
1:E:4096:ALA:O	1:E:4099:SER:OG	2.23	0.48
1:E:4232:GLU:OE1	1:E:5019:TRP:NE1	2.45	0.48
1:E:4541:TRP:O	1:E:4545:GLU:HG2	2.13	0.48
1:E:5012:LYS:O	1:E:5016:GLU:HG2	2.13	0.48
1:G:952:LYS:HA	1:G:971:ASP:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1858:ASP:O	1:G:1862:ILE:HG13	2.13	0.48
1:G:2128:TYR:CE2	1:G:3673:MET:HB3	2.49	0.48
1:G:2431:ASP:O	1:G:2435:ARG:HG3	2.13	0.48
1:G:2619:LEU:HG	1:G:2623:LEU:HG	1.95	0.48
1:J:213:TYR:C	1:J:341:TYR:HB2	2.34	0.48
1:J:3457:ASN:O	1:J:3461:GLN:HG2	2.13	0.48
1:J:3812:VAL:HG22	1:J:3816:MET:HE2	1.96	0.48
1:J:4948:GLU:HA	1:J:4951:LYS:HZ3	1.78	0.48
3:C:52:THR:O	3:C:55:ASN:N	2.46	0.48
1:B:277:GLY:N	1:B:316:PHE:O	2.45	0.48
1:B:526:LEU:HD11	1:B:540:PHE:HZ	1.78	0.48
1:B:671:VAL:HB	1:B:740:PRO:HD3	1.95	0.48
1:B:1271:ARG:HH21	1:B:1560:ASN:ND2	2.11	0.48
1:B:3416:VAL:HG23	1:B:3423:TRP:HZ3	1.79	0.48
1:B:4124:ASN:OD1	1:B:4125:PHE:N	2.47	0.48
1:B:4939:ALA:O	1:B:4943:LEU:HG	2.14	0.48
1:E:213:TYR:C	1:E:341:TYR:HB2	2.34	0.48
1:E:952:LYS:HA	1:E:971:ASP:H	1.78	0.48
1:E:1208:VAL:HG21	1:J:3575:LEU:HD21	1.95	0.48
1:E:1260:MET:SD	1:E:1260:MET:N	2.77	0.48
1:E:2880:GLU:HA	1:E:2908:TYR:CG	2.48	0.48
1:E:3416:VAL:HG23	1:E:3423:TRP:HZ3	1.79	0.48
1:E:4115:SER:HB3	1:E:4122:MET:HE2	1.96	0.48
1:E:4865:LYS:HZ2	1:E:4901:ILE:HG22	1.78	0.48
1:G:384:MET:SD	1:G:384:MET:N	2.85	0.48
1:G:682:LEU:HD23	1:G:738:LEU:HB3	1.94	0.48
1:G:1708:ARG:O	1:G:1712:TYR:HD1	1.95	0.48
1:J:384:MET:SD	1:J:384:MET:N	2.85	0.48
1:J:525:LEU:O	1:J:529:LEU:HG	2.14	0.48
1:J:799:GLU:HG3	1:J:1623:ARG:HH22	1.79	0.48
1:J:993:HIS:CE1	1:J:1027:LEU:HD11	2.48	0.48
1:J:1269:CYS:HA	1:J:1564:PHE:O	2.14	0.48
1:J:2128:TYR:CE2	1:J:3673:MET:HB3	2.49	0.48
1:J:2880:GLU:HA	1:J:2908:TYR:CG	2.48	0.48
1:J:3540:TYR:CZ	1:J:3549:VAL:HG21	2.49	0.48
3:K:38:ARG:CZ	3:K:48:VAL:HG22	2.44	0.48
1:B:1926:LEU:O	1:B:1931:LEU:HD11	2.14	0.48
1:B:3639:THR:N	1:B:3640:PRO:HD2	2.29	0.48
1:E:488:LEU:HD11	1:E:540:PHE:CE1	2.48	0.48
1:E:913:LEU:HB3	1:E:917:GLU:CB	2.44	0.48
1:E:1858:ASP:O	1:E:1862:ILE:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3078:ARG:O	1:E:3082:LYS:HG2	2.14	0.48
1:E:3919:THR:HG21	1:E:3968:TYR:HE2	1.78	0.48
1:E:4031:LEU:HD13	1:E:4044:MET:HG3	1.95	0.48
1:E:4184:MET:HB2	1:E:5023:PRO:HA	1.95	0.48
1:G:799:GLU:HG3	1:G:1623:ARG:HH22	1.79	0.48
1:G:3320:LEU:HD21	1:G:3361:THR:HG21	1.95	0.48
1:G:3416:VAL:HG23	1:G:3423:TRP:HZ3	1.79	0.48
1:G:4184:MET:HB2	1:G:5023:PRO:HA	1.95	0.48
1:J:996:TRP:CZ2	3:K:113:GLU:HB3	2.49	0.48
1:J:1248:VAL:HG23	1:J:1597:VAL:O	2.14	0.48
1:J:1727:ARG:O	1:J:1731:LEU:HG	2.14	0.48
1:J:3639:THR:N	1:J:3640:PRO:HD2	2.29	0.48
1:J:4104:THR:O	1:J:4108:ILE:HG12	2.14	0.48
1:J:4914:VAL:O	1:J:4918:ILE:HG12	2.14	0.48
2:H:7:ILE:HG22	2:H:71:ARG:O	2.14	0.48
3:C:34:MET:HE3	3:C:95:CYS:HB2	1.96	0.48
3:M:38:ARG:CZ	3:M:48:VAL:HG22	2.44	0.48
1:B:913:LEU:HB3	1:B:917:GLU:CB	2.44	0.48
1:B:1100:MET:SD	1:B:1194:LEU:HG	2.54	0.48
1:B:1858:ASP:O	1:B:1862:ILE:HG13	2.13	0.48
1:B:2823:ILE:HB	1:B:2935:TYR:HD1	1.79	0.48
1:B:4031:LEU:HD13	1:B:4044:MET:HG3	1.95	0.48
1:E:537:CYS:HB3	1:E:571:SER:OG	2.12	0.48
1:E:1727:ARG:O	1:E:1731:LEU:HG	2.14	0.48
1:E:2989:SER:HB2	1:E:2992:GLU:HB3	1.95	0.48
1:E:3320:LEU:HD21	1:E:3361:THR:HG21	1.95	0.48
1:E:3457:ASN:O	1:E:3461:GLN:HG2	2.13	0.48
1:G:1248:VAL:HG23	1:G:1597:VAL:O	2.14	0.48
1:G:3078:ARG:O	1:G:3082:LYS:HG2	2.14	0.48
1:G:3334:TRP:NE1	1:G:3337:ARG:HD2	2.29	0.48
1:J:488:LEU:HD11	1:J:540:PHE:CE1	2.48	0.48
1:J:2619:LEU:HG	1:J:2623:LEU:HG	1.95	0.48
3:F:52:THR:O	3:F:55:ASN:N	2.46	0.48
1:B:470:SER:O	1:B:474:ARG:HG3	2.14	0.48
1:B:952:LYS:HA	1:B:971:ASP:H	1.77	0.48
1:B:2821:TRP:HB3	1:B:2937:VAL:HB	1.96	0.48
1:B:2989:SER:HB2	1:B:2992:GLU:HB3	1.95	0.48
1:B:3923:LEU:HD22	1:B:3965:LEU:CD1	2.42	0.48
1:E:372:LEU:H	1:E:372:LEU:HD22	1.79	0.48
1:E:869:ARG:HE	1:E:941:MET:HE3	1.79	0.48
1:E:2819:TRP:NE1	1:E:2881:ASN:OD1	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2823:ILE:HB	1:E:2935:TYR:HD1	1.79	0.48
1:E:4124:ASN:OD1	1:E:4125:PHE:N	2.47	0.48
1:E:5013:MET:CE	1:E:5020:ASP:H	2.27	0.48
1:G:365:LYS:O	1:G:369:LEU:HG	2.13	0.48
1:G:1024:TYR:HA	1:G:1027:LEU:HG	1.94	0.48
1:G:2364:PHE:HD1	1:G:2429:LEU:HD21	1.78	0.48
1:G:2821:TRP:HB3	1:G:2937:VAL:HB	1.96	0.48
1:G:2989:SER:HB2	1:G:2992:GLU:HB3	1.95	0.48
1:G:3639:THR:N	1:G:3640:PRO:HD2	2.29	0.48
1:G:3811:GLU:O	1:G:3814:GLN:HG3	2.13	0.48
1:G:3874:VAL:HG23	1:G:3875:MET:SD	2.54	0.48
1:G:4826:ILE:O	1:G:4830:VAL:HG23	2.14	0.48
1:J:1100:MET:SD	1:J:1194:LEU:HG	2.54	0.48
1:J:3676:ASP:HA	1:J:3679:LYS:HE2	1.95	0.48
1:J:4860:ARG:HD2	1:J:4877:ASP:OD1	2.13	0.48
3:F:33:SER:OG	3:F:101:PRO:HA	2.14	0.48
1:B:541:SER:HA	1:B:574:VAL:HG12	1.96	0.48
1:B:582:HIS:O	1:B:586:ILE:HG13	2.14	0.48
1:B:1521:ASP:HB2	1:B:1526:LEU:HD23	1.96	0.48
1:B:2128:TYR:CE2	1:B:3673:MET:HB3	2.49	0.48
1:B:2883:HIS:HE1	1:B:2904:LEU:O	1.97	0.48
1:B:3078:ARG:O	1:B:3082:LYS:HG2	2.14	0.48
1:B:3534:MET:O	1:B:3537:LYS:HG2	2.14	0.48
1:E:470:SER:O	1:E:474:ARG:HG3	2.14	0.48
1:E:1248:VAL:HG23	1:E:1597:VAL:O	2.14	0.48
1:E:1477:GLY:HA2	1:E:1483:VAL:HA	1.94	0.48
1:E:2806:ARG:HG3	1:E:2810:LYS:HZ3	1.78	0.48
1:E:3395:ARG:HG2	1:E:3450:ASN:OD1	2.14	0.48
1:G:488:LEU:HD11	1:G:540:PHE:CE1	2.48	0.48
1:G:1274:HIS:O	1:G:1559:GLN:NE2	2.47	0.48
1:G:1727:ARG:O	1:G:1731:LEU:HG	2.14	0.48
1:G:3099:ALA:O	1:G:3103:ILE:HG12	2.14	0.48
1:G:3144:PHE:CD2	1:G:3197:LEU:HB3	2.49	0.48
1:G:4677:LEU:HA	1:G:4680:LYS:HZ3	1.78	0.48
1:G:4948:GLU:HA	1:G:4951:LYS:HZ3	1.79	0.48
1:J:913:LEU:HB3	1:J:917:GLU:CB	2.44	0.48
1:J:2443:ILE:HD12	1:J:2454:ARG:NH1	2.29	0.48
1:J:2989:SER:HB2	1:J:2992:GLU:HB3	1.95	0.48
1:J:3099:ALA:O	1:J:3103:ILE:HG12	2.14	0.48
1:J:3249:LEU:O	1:J:3253:ILE:HG12	2.13	0.48
1:J:4031:LEU:HD13	1:J:4044:MET:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:18:LYS:HA	2:I:50:ILE:HG23	1.95	0.48
3:K:52:THR:O	3:K:55:ASN:N	2.47	0.48
3:K:66:ARG:HG2	3:K:84:SER:HB3	1.95	0.48
3:M:101:PRO:HD2	3:M:104:TYR:O	2.14	0.48
1:B:875:ALA:O	1:B:879:HIS:ND1	2.46	0.47
1:B:2443:ILE:HD12	1:B:2454:ARG:NH1	2.29	0.47
1:B:3249:LEU:O	1:B:3253:ILE:HG12	2.13	0.47
1:B:4584:ASP:HA	1:B:4627:MET:HA	1.96	0.47
1:E:525:LEU:O	1:E:529:LEU:HG	2.14	0.47
1:E:1100:MET:SD	1:E:1194:LEU:HG	2.54	0.47
1:E:1269:CYS:HA	1:E:1564:PHE:O	2.14	0.47
1:E:1274:HIS:O	1:E:1559:GLN:NE2	2.47	0.47
1:E:2266:GLY:HA2	1:E:2271:THR:HG21	1.95	0.47
1:E:3093:ARG:O	1:E:3097:GLU:HG2	2.14	0.47
1:E:3811:GLU:O	1:E:3814:GLN:HG3	2.13	0.47
1:E:4914:VAL:O	1:E:4918:ILE:HG12	2.14	0.47
1:E:4939:ALA:O	1:E:4943:LEU:HG	2.14	0.47
1:G:1271:ARG:HH21	1:G:1560:ASN:ND2	2.11	0.47
1:G:5013:MET:CE	1:G:5020:ASP:H	2.27	0.47
1:J:223:PHE:CD1	1:J:230:CYS:HB3	2.49	0.47
1:J:3153:GLY:O	1:J:3202:PRO:HG3	2.14	0.47
1:J:3395:ARG:HG2	1:J:3450:ASN:OD1	2.14	0.47
1:J:4992:LEU:O	1:J:4996:ILE:HG13	2.14	0.47
1:J:5013:MET:CE	1:J:5020:ASP:H	2.27	0.47
2:H:18:LYS:HA	2:H:50:ILE:HG23	1.95	0.47
3:F:66:ARG:HG2	3:F:84:SER:HB3	1.95	0.47
1:B:213:TYR:C	1:B:341:TYR:HB2	2.34	0.47
1:B:799:GLU:HG3	1:B:1623:ARG:HH22	1.79	0.47
1:B:1042:ALA:O	1:B:1045:THR:OG1	2.20	0.47
1:B:1274:HIS:O	1:B:1559:GLN:NE2	2.47	0.47
1:B:1727:ARG:O	1:B:1731:LEU:HG	2.14	0.47
1:B:2656:CYS:HA	1:B:2711:PRO:HD3	1.97	0.47
1:B:2792:ARG:H	1:B:2797:PHE:HD2	1.62	0.47
1:B:3676:ASP:HA	1:B:3679:LYS:HE2	1.95	0.47
1:B:4826:ILE:O	1:B:4830:VAL:HG23	2.14	0.47
1:E:671:VAL:HB	1:E:740:PRO:HD3	1.95	0.47
1:E:2656:CYS:HA	1:E:2711:PRO:HD3	1.97	0.47
1:E:3099:ALA:O	1:E:3103:ILE:HG12	2.14	0.47
1:E:3282:PRO:HG3	1:E:3345:ILE:HD13	1.97	0.47
1:E:3534:MET:O	1:E:3537:LYS:HG2	2.14	0.47
1:G:213:TYR:C	1:G:341:TYR:HB2	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:897:ARG:HH12	3:M:104:TYR:HD2	1.61	0.47
1:G:1256:GLU:OE1	1:G:1275:ARG:NH2	2.47	0.47
1:G:3395:ARG:HG2	1:G:3450:ASN:OD1	2.14	0.47
1:G:3575:LEU:HD21	1:J:1208:VAL:HG21	1.96	0.47
1:G:3889:GLN:NE2	1:G:3960:GLN:HE22	2.12	0.47
1:G:4584:ASP:HA	1:G:4627:MET:HA	1.96	0.47
1:J:277:GLY:N	1:J:316:PHE:O	2.45	0.47
1:J:1926:LEU:O	1:J:1931:LEU:HD11	2.14	0.47
1:J:2582:MET:HA	1:J:2585:THR:HG22	1.95	0.47
1:J:3261:ALA:HB1	1:J:3265:GLU:HG3	1.97	0.47
1:J:3320:LEU:HD21	1:J:3361:THR:HG21	1.95	0.47
1:B:1208:VAL:HG21	1:E:3575:LEU:HD21	1.96	0.47
1:B:4104:THR:O	1:B:4108:ILE:HG12	2.13	0.47
1:B:5013:MET:CE	1:B:5020:ASP:H	2.27	0.47
1:E:996:TRP:CZ2	3:F:113:GLU:HB3	2.49	0.47
1:E:1271:ARG:HH21	1:E:1560:ASN:ND2	2.11	0.47
1:E:2593:ARG:HA	1:E:2600:ARG:NH2	2.29	0.47
1:E:3540:TYR:CZ	1:E:3549:VAL:HG21	2.49	0.47
1:G:223:PHE:CD1	1:G:230:CYS:HB3	2.48	0.47
1:G:470:SER:O	1:G:474:ARG:HG3	2.14	0.47
1:G:582:HIS:O	1:G:586:ILE:HG13	2.14	0.47
1:G:2980:VAL:HB	1:G:2986:VAL:HB	1.96	0.47
1:G:3093:ARG:O	1:G:3097:GLU:HG2	2.13	0.47
1:G:3153:GLY:O	1:G:3202:PRO:HG3	2.14	0.47
1:G:3534:MET:O	1:G:3537:LYS:HG2	2.14	0.47
1:G:4124:ASN:OD1	1:G:4125:PHE:N	2.47	0.47
1:J:582:HIS:O	1:J:586:ILE:HG13	2.14	0.47
1:J:3078:ARG:O	1:J:3082:LYS:HG2	2.14	0.47
1:J:3919:THR:HG21	1:J:3968:TYR:HE2	1.79	0.47
3:C:38:ARG:CZ	3:C:48:VAL:HG22	2.44	0.47
1:B:2439:GLU:O	1:B:2443:ILE:HG12	2.15	0.47
1:B:3282:PRO:HG3	1:B:3345:ILE:HD13	1.96	0.47
1:B:3334:TRP:NE1	1:B:3337:ARG:HD2	2.29	0.47
1:B:3539:ARG:HD3	1:B:3542:LEU:HD12	1.96	0.47
1:B:4184:MET:HB2	1:B:5023:PRO:HA	1.95	0.47
1:E:4826:ILE:O	1:E:4830:VAL:HG23	2.14	0.47
1:G:2439:GLU:O	1:G:2443:ILE:HG12	2.15	0.47
1:G:4541:TRP:O	1:G:4545:GLU:HG2	2.13	0.47
1:J:72:SER:HB2	1:J:99:ARG:HH11	1.79	0.47
1:J:3032:SER:O	1:J:3036:LYS:HG3	2.14	0.47
1:J:4541:TRP:O	1:J:4545:GLU:HG2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4826:ILE:O	1:J:4830:VAL:HG23	2.14	0.47
3:K:36:TRP:HB2	3:K:48:VAL:HB	1.96	0.47
1:B:3153:GLY:O	1:B:3202:PRO:HG3	2.14	0.47
1:B:3157:ILE:HG22	1:B:3157:ILE:O	2.15	0.47
1:B:4655:PHE:O	1:B:4659:ILE:HG12	2.15	0.47
1:B:4666:VAL:O	1:B:4670:ILE:HG12	2.15	0.47
1:E:173:SER:HB3	1:E:176:SER:HB2	1.96	0.47
1:E:2702:CYS:O	1:E:2706:ILE:HG13	2.15	0.47
1:E:2792:ARG:H	1:E:2797:PHE:HD2	1.63	0.47
1:E:3261:ALA:HB1	1:E:3265:GLU:HG3	1.97	0.47
1:E:4992:LEU:O	1:E:4996:ILE:HG13	2.14	0.47
1:G:63:ALA:HB3	1:G:402:ARG:NH2	2.30	0.47
1:J:1721:GLU:O	1:J:1725:ARG:HG3	2.15	0.47
1:J:2702:CYS:O	1:J:2706:ILE:HG13	2.15	0.47
1:J:4124:ASN:OD1	1:J:4125:PHE:N	2.47	0.47
1:J:4543:GLU:O	1:J:4547:GLN:HG2	2.14	0.47
3:F:38:ARG:CZ	3:F:48:VAL:HG22	2.43	0.47
1:B:72:SER:HB2	1:B:99:ARG:HH11	1.80	0.47
1:B:173:SER:HB3	1:B:176:SER:HB2	1.96	0.47
1:B:3320:LEU:HD21	1:B:3361:THR:HG21	1.95	0.47
1:B:3575:LEU:HD21	1:G:1208:VAL:HG21	1.96	0.47
1:B:3811:GLU:O	1:B:3814:GLN:HG3	2.13	0.47
1:E:1721:GLU:O	1:E:1725:ARG:HG3	2.15	0.47
1:E:2443:ILE:HD12	1:E:2454:ARG:NH1	2.29	0.47
1:E:3157:ILE:O	1:E:3157:ILE:HG22	2.15	0.47
1:E:3874:VAL:HG23	1:E:3875:MET:SD	2.54	0.47
1:E:4104:THR:O	1:E:4108:ILE:HG12	2.14	0.47
1:G:665:GLU:HB3	1:G:792:LEU:HB2	1.95	0.47
1:G:2443:ILE:HD12	1:G:2454:ARG:NH1	2.29	0.47
1:G:2792:ARG:H	1:G:2797:PHE:HD2	1.62	0.47
1:G:2958:GLY:O	1:G:2962:GLN:HG2	2.15	0.47
1:G:4939:ALA:O	1:G:4943:LEU:HG	2.14	0.47
1:J:232:THR:HG21	1:J:252:VAL:HG11	1.95	0.47
1:J:470:SER:O	1:J:474:ARG:HG3	2.14	0.47
1:J:1271:ARG:HH21	1:J:1560:ASN:ND2	2.11	0.47
1:J:2674:LEU:HD21	1:J:2910:THR:HB	1.96	0.47
1:J:2792:ARG:H	1:J:2797:PHE:HD2	1.62	0.47
1:J:2883:HIS:HE1	1:J:2904:LEU:O	1.97	0.47
1:J:3282:PRO:HG3	1:J:3345:ILE:HD13	1.96	0.47
1:J:3874:VAL:HG23	1:J:3875:MET:SD	2.54	0.47
1:J:3889:GLN:NE2	1:J:3960:GLN:HE22	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4232:GLU:OE1	1:J:5019:TRP:NE1	2.45	0.47
1:B:63:ALA:HB3	1:B:402:ARG:NH2	2.30	0.47
1:B:525:LEU:O	1:B:529:LEU:HG	2.14	0.47
1:B:920:TYR:CG	3:C:101:PRO:HG3	2.50	0.47
1:B:1248:VAL:HG23	1:B:1597:VAL:O	2.14	0.47
1:B:2131:LEU:HD11	1:B:3662:ILE:HG12	1.97	0.47
1:B:2881:ASN:HA	1:B:2884:ASN:HD21	1.78	0.47
1:B:2958:GLY:O	1:B:2962:GLN:HG2	2.15	0.47
1:B:2980:VAL:HB	1:B:2986:VAL:HB	1.96	0.47
1:B:3261:ALA:HB1	1:B:3265:GLU:HG3	1.97	0.47
1:B:3540:TYR:CZ	1:B:3549:VAL:HG21	2.49	0.47
1:B:4673:ARG:NH1	1:B:4698:LYS:HE2	2.30	0.47
1:B:4914:VAL:O	1:B:4918:ILE:HG12	2.14	0.47
1:B:4918:ILE:HA	1:E:4892:ARG:HH22	1.79	0.47
1:E:1521:ASP:HB2	1:E:1526:LEU:HD23	1.96	0.47
1:E:2128:TYR:CE2	1:E:3673:MET:HB3	2.49	0.47
1:E:2190:VAL:HA	1:E:2193:GLN:HB3	1.97	0.47
1:E:2442:LEU:HA	1:E:2447:LYS:HZ2	1.79	0.47
1:E:2674:LEU:HD21	1:E:2910:THR:HB	1.97	0.47
1:E:2821:TRP:HB3	1:E:2937:VAL:HB	1.96	0.47
1:E:3639:THR:N	1:E:3640:PRO:HD2	2.29	0.47
1:E:4953:ASP:O	1:E:4956:THR:OG1	2.29	0.47
1:G:232:THR:HG21	1:G:252:VAL:HG11	1.95	0.47
1:G:1521:ASP:HB2	1:G:1526:LEU:HD23	1.96	0.47
1:G:1926:LEU:O	1:G:1931:LEU:HD11	2.14	0.47
1:G:2593:ARG:HA	1:G:2600:ARG:NH2	2.29	0.47
1:G:2656:CYS:HA	1:G:2711:PRO:HD3	1.97	0.47
1:G:2881:ASN:HA	1:G:2884:ASN:HD21	1.78	0.47
1:G:3433:GLU:HA	1:G:3436:ARG:HD2	1.97	0.47
1:G:3540:TYR:CZ	1:G:3549:VAL:HG21	2.49	0.47
1:G:4543:GLU:O	1:G:4547:GLN:HG2	2.14	0.47
1:G:4914:VAL:O	1:G:4918:ILE:HG12	2.14	0.47
1:J:669:ASP:O	1:J:740:PRO:HB3	2.15	0.47
1:J:1274:HIS:O	1:J:1559:GLN:NE2	2.47	0.47
1:J:1521:ASP:HB2	1:J:1526:LEU:HD23	1.96	0.47
1:J:2131:LEU:HD11	1:J:3662:ILE:HG12	1.97	0.47
1:J:2821:TRP:HB3	1:J:2937:VAL:HB	1.96	0.47
1:J:3157:ILE:HG22	1:J:3157:ILE:O	2.15	0.47
3:K:33:SER:OG	3:K:101:PRO:HA	2.14	0.47
3:M:36:TRP:HB2	3:M:48:VAL:HB	1.96	0.47
1:B:932:LEU:HA	1:B:988:LEU:HD21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2674:LEU:HD21	1:B:2910:THR:HB	1.96	0.47
1:B:3032:SER:O	1:B:3036:LYS:HG3	2.14	0.47
1:B:3384:LYS:NZ	1:B:3386:GLU:OE1	2.48	0.47
1:B:4948:GLU:HA	1:B:4951:LYS:HZ3	1.80	0.47
1:E:63:ALA:HB3	1:E:402:ARG:NH2	2.30	0.47
1:E:582:HIS:O	1:E:586:ILE:HG13	2.14	0.47
1:E:1573:MET:SD	1:E:1574:PRO:HD2	2.55	0.47
1:E:1926:LEU:O	1:E:1931:LEU:HD11	2.14	0.47
1:E:2439:GLU:HB2	1:E:2442:LEU:HG	1.95	0.47
1:E:4673:ARG:NH1	1:E:4698:LYS:HE2	2.30	0.47
1:G:173:SER:HB3	1:G:176:SER:HB2	1.96	0.47
1:G:1075:PHE:HB2	1:G:1192:CYS:SG	2.55	0.47
1:G:1269:CYS:HA	1:G:1564:PHE:O	2.14	0.47
1:G:2013:LYS:NZ	1:G:3664:THR:OG1	2.38	0.47
1:G:2883:HIS:HE1	1:G:2904:LEU:O	1.97	0.47
1:G:3670:GLU:O	1:G:3674:ILE:HG12	2.15	0.47
1:G:4983:HIS:HA	1:G:4988:TYR:HE2	1.80	0.47
1:J:2190:VAL:HA	1:J:2193:GLN:HB3	1.97	0.47
1:J:2442:LEU:HA	1:J:2447:LYS:HZ2	1.79	0.47
1:J:3334:TRP:NE1	1:J:3337:ARG:HD2	2.29	0.47
1:J:4152:GLU:OE1	1:J:4192:ARG:NH1	2.48	0.47
1:J:4983:HIS:HA	1:J:4988:TYR:HE2	1.80	0.47
1:B:669:ASP:O	1:B:740:PRO:HB3	2.15	0.47
1:B:2439:GLU:HB2	1:B:2442:LEU:HG	1.95	0.47
1:B:2575:ARG:NH1	1:B:2575:ARG:HA	2.30	0.47
1:B:3099:ALA:O	1:B:3103:ILE:HG12	2.14	0.47
1:B:3103:ILE:O	1:B:3107:VAL:HG13	2.15	0.47
1:B:3204:ALA:HB1	1:B:3207:GLU:HB2	1.97	0.47
1:B:3943:ILE:HG12	1:B:4009:GLN:HE22	1.80	0.47
1:B:4543:GLU:O	1:B:4547:GLN:HG2	2.14	0.47
1:E:2575:ARG:NH1	1:E:2575:ARG:HA	2.30	0.47
1:E:2760:GLU:HA	1:E:2802:LYS:HZ1	1.79	0.47
1:E:3192:GLU:O	1:E:3196:ARG:HG2	2.15	0.47
1:E:3539:ARG:HD3	1:E:3542:LEU:HD12	1.96	0.47
1:G:208:CYS:HG	1:G:273:HIS:CE1	2.29	0.47
1:G:1024:TYR:OH	1:G:1036:ARG:HG3	2.15	0.47
1:G:1871:PHE:HZ	1:G:2094:LEU:HD13	1.80	0.47
1:G:2702:CYS:O	1:G:2706:ILE:HG13	2.15	0.47
1:G:3282:PRO:HG3	1:G:3345:ILE:HD13	1.97	0.47
1:G:4152:GLU:OE1	1:G:4192:ARG:NH1	2.48	0.47
1:G:4666:VAL:O	1:G:4670:ILE:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:790:ARG:HD2	1:J:1624:LEU:HB3	1.97	0.47
1:J:2656:CYS:HA	1:J:2711:PRO:HD3	1.97	0.47
1:J:3103:ILE:O	1:J:3107:VAL:HG13	2.15	0.47
1:J:3270:ILE:HG23	1:J:3274:LEU:HD12	1.97	0.47
1:J:4939:ALA:O	1:J:4943:LEU:HG	2.14	0.47
3:C:66:ARG:HG2	3:C:84:SER:HB3	1.95	0.47
1:B:4021:LYS:O	1:B:4025:VAL:HG23	2.15	0.47
1:B:4983:HIS:HA	1:B:4988:TYR:HE2	1.80	0.47
1:E:932:LEU:HA	1:E:988:LEU:HD21	1.97	0.47
1:E:2439:GLU:O	1:E:2443:ILE:HG12	2.15	0.47
1:E:4152:GLU:OE1	1:E:4192:ARG:NH1	2.48	0.47
1:E:4675:LYS:O	1:E:4679:ARG:HG2	2.15	0.47
1:E:4983:HIS:HA	1:E:4988:TYR:HE2	1.80	0.47
1:G:3103:ILE:O	1:G:3107:VAL:HG13	2.15	0.47
1:G:3261:ALA:HB1	1:G:3265:GLU:HG3	1.97	0.47
1:G:3941:ASP:OD1	1:G:3942:VAL:N	2.48	0.47
1:J:173:SER:HB3	1:J:176:SER:HB2	1.95	0.47
1:J:597:HIS:HB2	1:J:1665:HIS:CG	2.50	0.47
1:J:1573:MET:SD	1:J:1574:PRO:HD2	2.55	0.47
1:J:2439:GLU:O	1:J:2443:ILE:HG12	2.15	0.47
1:J:2980:VAL:HB	1:J:2986:VAL:HB	1.96	0.47
1:J:3192:GLU:O	1:J:3196:ARG:HG2	2.15	0.47
1:J:3339:ALA:O	1:J:3343:GLN:HG2	2.15	0.47
1:J:3534:MET:O	1:J:3537:LYS:HG2	2.14	0.47
1:J:4096:ALA:O	1:J:4100:GLN:HG2	2.15	0.47
3:F:111:ASN:O	3:F:114:TYR:HB2	2.15	0.47
1:B:2442:LEU:HA	1:B:2447:LYS:HZ2	1.80	0.46
1:B:3198:ALA:HA	1:B:3201:MET:HG3	1.97	0.46
1:E:1075:PHE:HB2	1:E:1192:CYS:SG	2.55	0.46
1:E:1871:PHE:HZ	1:E:2094:LEU:HD13	1.80	0.46
1:E:2131:LEU:HD11	1:E:3662:ILE:HG12	1.97	0.46
1:E:3103:ILE:O	1:E:3107:VAL:HG13	2.15	0.46
1:E:3270:ILE:HG23	1:E:3274:LEU:HD12	1.97	0.46
1:E:3334:TRP:NE1	1:E:3337:ARG:HD2	2.29	0.46
1:E:3384:LYS:NZ	1:E:3386:GLU:OE1	2.48	0.46
1:E:3670:GLU:O	1:E:3674:ILE:HG12	2.15	0.46
1:E:4655:PHE:O	1:E:4659:ILE:HG12	2.15	0.46
1:G:525:LEU:O	1:G:529:LEU:HG	2.14	0.46
1:G:597:HIS:HB2	1:G:1665:HIS:CG	2.50	0.46
1:G:1573:MET:SD	1:G:1574:PRO:HD2	2.55	0.46
1:G:2131:LEU:HD11	1:G:3662:ILE:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2293:GLN:HA	1:G:2296:GLU:HG3	1.98	0.46
1:G:3204:ALA:HB1	1:G:3207:GLU:HB2	1.97	0.46
1:G:3943:ILE:HG12	1:G:4009:GLN:HE22	1.80	0.46
1:G:4021:LYS:O	1:G:4025:VAL:HG23	2.15	0.46
1:G:4992:LEU:O	1:G:4996:ILE:HG13	2.14	0.46
1:J:829:TYR:HB2	1:J:1075:PHE:CE1	2.50	0.46
1:J:1256:GLU:OE1	1:J:1275:ARG:NH2	2.46	0.46
1:J:3433:GLU:HA	1:J:3436:ARG:HD2	1.97	0.46
1:J:4021:LYS:O	1:J:4025:VAL:HG23	2.15	0.46
1:J:4675:LYS:O	1:J:4679:ARG:HG2	2.15	0.46
1:B:869:ARG:HE	1:B:941:MET:HE3	1.80	0.46
1:B:1093:GLU:HB2	1:B:1148:VAL:HG12	1.98	0.46
1:B:1721:GLU:O	1:B:1725:ARG:HG3	2.15	0.46
1:B:2012:PHE:CZ	1:B:2031:LEU:HD23	2.51	0.46
1:B:2494:PHE:HE1	1:B:2498:HIS:HB2	1.79	0.46
1:B:4152:GLU:OE1	1:B:4192:ARG:NH1	2.48	0.46
1:E:790:ARG:HD2	1:E:1624:LEU:HB3	1.97	0.46
1:E:1024:TYR:OH	1:E:1036:ARG:HG3	2.15	0.46
1:E:2739:PRO:HG3	1:E:2888:ARG:HG2	1.97	0.46
1:E:3032:SER:O	1:E:3036:LYS:HG3	2.14	0.46
1:E:3198:ALA:HA	1:E:3201:MET:HG3	1.97	0.46
1:E:3941:ASP:OD1	1:E:3942:VAL:N	2.48	0.46
1:E:4543:GLU:O	1:E:4547:GLN:HG2	2.14	0.46
1:E:4664:LEU:HD12	1:E:4665:LYS:HB2	1.98	0.46
1:G:669:ASP:O	1:G:740:PRO:HB3	2.15	0.46
1:G:2012:PHE:CZ	1:G:2031:LEU:HD23	2.51	0.46
1:G:2190:VAL:HA	1:G:2193:GLN:HB3	1.97	0.46
1:J:63:ALA:HB3	1:J:402:ARG:NH2	2.30	0.46
1:J:1704:PRO:O	1:J:1708:ARG:HG2	2.16	0.46
1:J:2494:PHE:HE1	1:J:2498:HIS:HB2	1.79	0.46
1:J:2593:ARG:HA	1:J:2600:ARG:NH2	2.29	0.46
1:J:2958:GLY:O	1:J:2962:GLN:HG2	2.15	0.46
1:J:4584:ASP:HA	1:J:4627:MET:HA	1.96	0.46
2:D:15:PHE:CE1	2:D:67:SER:HB3	2.50	0.46
3:C:111:ASN:O	3:C:114:TYR:HB2	2.15	0.46
1:B:2117:VAL:HA	1:B:2120:MET:HG2	1.98	0.46
1:B:3270:ILE:HG23	1:B:3274:LEU:HD12	1.97	0.46
1:B:3433:GLU:HA	1:B:3436:ARG:HD2	1.96	0.46
1:B:3670:GLU:O	1:B:3674:ILE:HG12	2.15	0.46
1:B:3874:VAL:HG23	1:B:3875:MET:SD	2.54	0.46
1:B:3893:GLU:HA	1:B:3967:GLU:OE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:799:GLU:HG3	1:E:1623:ARG:HH22	1.79	0.46
1:E:3153:GLY:O	1:E:3202:PRO:HG3	2.14	0.46
1:E:3433:GLU:HA	1:E:3436:ARG:HD2	1.97	0.46
1:E:4229:GLU:OE1	1:E:4229:GLU:N	2.37	0.46
1:E:4666:VAL:O	1:E:4670:ILE:HG12	2.15	0.46
1:G:954:LYS:HA	1:G:954:LYS:HD2	1.77	0.46
1:G:2588:ARG:NH1	1:G:2901:THR:HB	2.31	0.46
1:G:3936:TYR:O	1:G:3940:LYS:NZ	2.40	0.46
1:J:541:SER:HA	1:J:574:VAL:HG12	1.96	0.46
1:J:1871:PHE:HZ	1:J:2094:LEU:HD13	1.80	0.46
1:J:2117:VAL:HA	1:J:2120:MET:HG2	1.98	0.46
1:J:3176:GLY:HA2	1:J:3187:ARG:HH22	1.81	0.46
2:A:15:PHE:CE1	2:A:67:SER:HB3	2.50	0.46
2:I:15:PHE:CE1	2:I:67:SER:HB3	2.50	0.46
2:I:30:LEU:HB2	2:I:34:LYS:HB2	1.98	0.46
3:C:36:TRP:HB2	3:C:48:VAL:HB	1.96	0.46
1:B:597:HIS:HB2	1:B:1665:HIS:CG	2.50	0.46
1:B:2013:LYS:NZ	1:B:3664:THR:OG1	2.38	0.46
1:B:2588:ARG:NH1	1:B:2901:THR:HB	2.31	0.46
1:B:2593:ARG:HA	1:B:2600:ARG:NH2	2.29	0.46
1:B:4664:LEU:HD12	1:B:4665:LYS:HB2	1.98	0.46
1:E:2013:LYS:NZ	1:E:3664:THR:OG1	2.38	0.46
1:E:2380:ILE:O	1:E:2384:ILE:HG13	2.15	0.46
1:E:3176:GLY:HA2	1:E:3187:ARG:HH22	1.80	0.46
1:E:3332:ALA:HB1	1:E:3335:MET:HE3	1.97	0.46
1:E:4584:ASP:HA	1:E:4627:MET:HA	1.96	0.46
1:G:1721:GLU:O	1:G:1725:ARG:HG3	2.15	0.46
1:G:3019:SER:OG	1:G:3023:LYS:O	2.26	0.46
1:G:4096:ALA:O	1:G:4099:SER:OG	2.23	0.46
1:G:4655:PHE:O	1:G:4659:ILE:HG12	2.15	0.46
1:G:4772:ASP:OD1	1:G:4772:ASP:N	2.49	0.46
3:K:34:MET:HE1	3:K:95:CYS:HB2	1.96	0.46
1:B:1024:TYR:OH	1:B:1036:ARG:HG3	2.15	0.46
1:B:1075:PHE:HB2	1:B:1192:CYS:SG	2.55	0.46
1:B:1269:CYS:HA	1:B:1564:PHE:O	2.14	0.46
1:B:1712:TYR:O	1:B:1716:ILE:HG13	2.16	0.46
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.15	0.46
1:B:2926:LEU:O	1:B:2930:LEU:HG	2.15	0.46
1:B:3889:GLN:NE2	1:B:3960:GLN:HE22	2.12	0.46
1:E:792:LEU:HD22	1:E:799:GLU:H	1.81	0.46
1:E:1704:PRO:O	1:E:1708:ARG:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3164:SER:O	1:E:3168:THR:HG23	2.16	0.46
1:E:4021:LYS:O	1:E:4025:VAL:HG23	2.15	0.46
1:G:72:SER:HB2	1:G:99:ARG:HH11	1.79	0.46
1:G:541:SER:HA	1:G:574:VAL:HG12	1.96	0.46
1:G:917:GLU:CD	3:M:101:PRO:HB2	2.36	0.46
1:G:1704:PRO:O	1:G:1708:ARG:HG2	2.16	0.46
1:G:1784:ALA:HA	2:H:55:VAL:HA	1.96	0.46
1:G:2494:PHE:HE1	1:G:2498:HIS:HB2	1.79	0.46
1:G:3032:SER:O	1:G:3036:LYS:HG3	2.14	0.46
1:G:3266:MET:O	1:G:3266:MET:HG2	2.16	0.46
1:G:3967:GLU:CA	1:G:3970:GLN:HG2	2.39	0.46
1:J:245:VAL:HG23	1:J:376:ALA:CB	2.46	0.46
1:J:3164:SER:O	1:J:3168:THR:HG23	2.16	0.46
1:J:3198:ALA:HA	1:J:3201:MET:HG3	1.97	0.46
1:J:3776:ALA:HB1	1:J:3816:MET:HG3	1.98	0.46
1:J:4673:ARG:NH1	1:J:4698:LYS:HE2	2.30	0.46
3:K:66:ARG:HE	3:K:83:ASN:HB2	1.80	0.46
1:B:800:PHE:HD2	1:B:804:PRO:HG3	1.81	0.46
1:B:2190:VAL:HA	1:B:2193:GLN:HB3	1.97	0.46
1:B:2624:ARG:HG3	1:B:2625:ARG:HH21	1.81	0.46
1:B:2739:PRO:HG3	1:B:2888:ARG:HG2	1.97	0.46
1:B:3176:GLY:HA2	1:B:3187:ARG:HH22	1.80	0.46
1:B:3192:GLU:O	1:B:3196:ARG:HG2	2.15	0.46
1:B:3395:ARG:HG2	1:B:3450:ASN:OD1	2.14	0.46
1:B:4953:ASP:O	1:B:4956:THR:OG1	2.29	0.46
1:B:4992:LEU:O	1:B:4996:ILE:HG13	2.15	0.46
1:E:214:VAL:HG22	1:E:341:TYR:HD1	1.81	0.46
1:E:665:GLU:HB3	1:E:792:LEU:HB2	1.95	0.46
1:E:800:PHE:HD2	1:E:804:PRO:HG3	1.81	0.46
1:E:1712:TYR:O	1:E:1716:ILE:HG13	2.16	0.46
1:E:2494:PHE:HE1	1:E:2498:HIS:HB2	1.79	0.46
1:E:3889:GLN:NE2	1:E:3960:GLN:HE22	2.12	0.46
1:E:3893:GLU:HA	1:E:3967:GLU:OE2	2.15	0.46
1:G:459:LEU:HB3	1:G:463:GLU:HG3	1.98	0.46
1:G:2575:ARG:NH1	1:G:2575:ARG:HA	2.30	0.46
1:G:4677:LEU:HA	1:G:4680:LYS:NZ	2.31	0.46
1:J:932:LEU:HA	1:J:988:LEU:HD21	1.97	0.46
2:A:30:LEU:HB2	2:A:34:LYS:HB2	1.98	0.46
2:D:30:LEU:HB2	2:D:34:LYS:HB2	1.98	0.46
1:B:214:VAL:HG22	1:B:341:TYR:HD1	1.81	0.46
1:B:459:LEU:HB3	1:B:463:GLU:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:710:ASP:OD1	1:B:711:LEU:N	2.49	0.46
1:B:4122:MET:HE1	1:B:4123:ILE:HG12	1.98	0.46
1:B:4675:LYS:O	1:B:4679:ARG:HG2	2.15	0.46
1:E:829:TYR:HB2	1:E:1075:PHE:CE1	2.50	0.46
1:E:2806:ARG:HH11	1:E:2810:LYS:HG3	1.81	0.46
1:E:2957:PHE:HE2	1:E:3034:LYS:HG3	1.81	0.46
1:E:3266:MET:HG2	1:E:3266:MET:O	2.16	0.46
1:E:3339:ALA:O	1:E:3343:GLN:HG2	2.15	0.46
1:E:3981:ALA:O	1:E:3986:TRP:NE1	2.49	0.46
1:G:710:ASP:OD1	1:G:711:LEU:N	2.49	0.46
1:G:829:TYR:HB2	1:G:1075:PHE:CE1	2.50	0.46
1:G:1573:MET:HE1	1:G:1587:PRO:HA	1.97	0.46
1:G:2376:LEU:O	1:G:2380:ILE:HG12	2.15	0.46
1:G:2806:ARG:HH11	1:G:2810:LYS:HG3	1.81	0.46
1:G:3176:GLY:HA2	1:G:3187:ARG:HH22	1.81	0.46
1:G:4048:LEU:HD11	1:G:4150:LEU:HD13	1.98	0.46
1:J:214:VAL:HG22	1:J:341:TYR:HD1	1.81	0.46
1:J:710:ASP:OD1	1:J:711:LEU:N	2.49	0.46
1:J:1066:GLN:HA	1:J:1069:TRP:HE3	1.81	0.46
1:J:4652:LEU:O	1:J:4656:LEU:HG	2.16	0.46
2:H:30:LEU:HB2	2:H:34:LYS:HB2	1.98	0.46
1:B:1573:MET:SD	1:B:1574:PRO:HD2	2.55	0.46
1:B:1813:ARG:HH22	1:B:1814:MET:HE2	1.80	0.46
1:B:3164:SER:O	1:B:3168:THR:HG23	2.16	0.46
1:B:3845:ASN:O	1:B:3848:GLU:HG2	2.16	0.46
1:B:3941:ASP:OD1	1:B:3942:VAL:N	2.48	0.46
1:B:4096:ALA:O	1:B:4100:GLN:HG2	2.15	0.46
1:B:4652:LEU:O	1:B:4656:LEU:HG	2.16	0.46
1:E:669:ASP:O	1:E:740:PRO:HB3	2.15	0.46
1:E:2376:LEU:O	1:E:2380:ILE:HG12	2.15	0.46
1:E:2624:ARG:HG3	1:E:2625:ARG:HH21	1.81	0.46
1:E:2980:VAL:HB	1:E:2986:VAL:HB	1.96	0.46
1:E:3225:ARG:O	1:E:3229:ILE:HG23	2.16	0.46
1:E:4856:PHE:HA	1:E:4876:CYS:SG	2.56	0.46
1:G:4096:ALA:O	1:G:4100:GLN:HG2	2.15	0.46
1:J:248:GLU:HB3	1:J:373:LYS:CA	2.45	0.46
1:J:869:ARG:HE	1:J:941:MET:HE3	1.80	0.46
1:J:1075:PHE:HB2	1:J:1192:CYS:SG	2.55	0.46
1:J:2957:PHE:HE2	1:J:3034:LYS:HG3	1.81	0.46
1:J:3384:LYS:NZ	1:J:3386:GLU:OE1	2.48	0.46
1:J:3943:ILE:HG12	1:J:4009:GLN:HE22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4048:LEU:HD11	1:J:4150:LEU:HD13	1.98	0.46
1:J:4655:PHE:O	1:J:4659:ILE:HG12	2.15	0.46
1:J:4664:LEU:HD12	1:J:4665:LYS:HB2	1.98	0.46
3:F:36:TRP:HB2	3:F:48:VAL:HB	1.96	0.46
1:B:1871:PHE:HZ	1:B:2094:LEU:HD13	1.80	0.46
1:B:2293:GLN:HA	1:B:2296:GLU:HG3	1.98	0.46
1:B:3266:MET:HG2	1:B:3266:MET:O	2.16	0.46
1:E:1093:GLU:HB2	1:E:1148:VAL:HG12	1.98	0.46
1:E:2958:GLY:O	1:E:2962:GLN:HG2	2.15	0.46
1:G:214:VAL:HG22	1:G:341:TYR:HD1	1.81	0.46
1:G:914:PRO:HG2	1:G:917:GLU:HG2	1.98	0.46
1:G:1712:TYR:O	1:G:1716:ILE:HG13	2.16	0.46
1:G:2674:LEU:HD21	1:G:2910:THR:HB	1.97	0.46
1:G:2827:ARG:NE	1:G:2935:TYR:OH	2.28	0.46
1:G:3270:ILE:HG23	1:G:3274:LEU:HD12	1.97	0.46
1:J:659:TYR:OH	1:J:807:GLY:O	2.28	0.46
1:J:792:LEU:HD22	1:J:799:GLU:H	1.81	0.46
1:J:920:TYR:CG	3:K:101:PRO:HG3	2.50	0.46
1:J:1093:GLU:HB2	1:J:1148:VAL:HG12	1.98	0.46
1:J:2012:PHE:CZ	1:J:2031:LEU:HD23	2.51	0.46
1:J:2376:LEU:O	1:J:2380:ILE:HG12	2.15	0.46
1:J:2926:LEU:O	1:J:2930:LEU:HG	2.15	0.46
1:J:3941:ASP:OD1	1:J:3942:VAL:N	2.48	0.46
1:J:4648:LEU:HD12	1:J:4803:HIS:CE1	2.51	0.46
1:J:4677:LEU:HA	1:J:4680:LYS:NZ	2.31	0.46
1:B:2702:CYS:O	1:B:2706:ILE:HG13	2.15	0.46
1:B:3981:ALA:O	1:B:3986:TRP:NE1	2.49	0.46
1:E:72:SER:HB2	1:E:99:ARG:HH11	1.80	0.46
1:E:783:PHE:CZ	1:E:1615:VAL:HG11	2.51	0.46
1:E:3204:ALA:HB1	1:E:3207:GLU:HB2	1.97	0.46
1:E:3524:MET:HA	1:E:3582:ARG:HH22	1.81	0.46
1:E:3776:ALA:HB1	1:E:3816:MET:HG3	1.98	0.46
1:E:3943:ILE:HG12	1:E:4009:GLN:HE22	1.80	0.46
1:E:4652:LEU:O	1:E:4656:LEU:HG	2.16	0.46
1:G:932:LEU:HA	1:G:988:LEU:HD21	1.97	0.46
1:G:1297:PHE:CD2	1:G:1522:LEU:HA	2.51	0.46
1:G:2759:ALA:HB1	1:G:2806:ARG:HA	1.98	0.46
1:G:2806:ARG:HG3	1:G:2810:LYS:HZ1	1.81	0.46
1:G:3192:GLU:O	1:G:3196:ARG:HG2	2.15	0.46
1:G:3845:ASN:O	1:G:3848:GLU:HG2	2.16	0.46
1:G:4673:ARG:NH1	1:G:4698:LYS:HE2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1712:TYR:O	1:J:1716:ILE:HG13	2.16	0.46
1:J:2380:ILE:O	1:J:2384:ILE:HG13	2.15	0.46
1:J:2624:ARG:HG3	1:J:2625:ARG:HH21	1.81	0.46
1:J:3225:ARG:O	1:J:3229:ILE:HG23	2.16	0.46
1:J:3670:GLU:O	1:J:3674:ILE:HG12	2.15	0.46
3:C:66:ARG:HE	3:C:83:ASN:HB2	1.80	0.46
3:M:43:LYS:HD2	3:M:44:GLN:O	2.16	0.46
1:B:121:LEU:HB2	1:B:134:ASP:HB2	1.98	0.45
1:B:783:PHE:CZ	1:B:1615:VAL:HG11	2.51	0.45
1:B:792:LEU:HD22	1:B:799:GLU:H	1.81	0.45
1:B:2380:ILE:O	1:B:2384:ILE:HG13	2.15	0.45
1:B:2489:LYS:HE3	1:B:2491:SER:HB3	1.98	0.45
1:B:2505:PHE:O	1:B:2509:VAL:HG22	2.16	0.45
1:B:2874:MET:HG2	1:B:2937:VAL:HG21	1.98	0.45
1:B:3524:MET:HA	1:B:3582:ARG:HH22	1.81	0.45
1:B:4219:PHE:HD1	1:B:4950:VAL:HG11	1.81	0.45
1:E:459:LEU:HB3	1:E:463:GLU:HG3	1.98	0.45
1:E:541:SER:HA	1:E:574:VAL:HG12	1.96	0.45
1:E:1115:LEU:HD13	1:E:1193:SER:HB2	1.98	0.45
1:E:3003:LEU:HB2	1:E:3004:PRO:HD3	1.98	0.45
1:E:4096:ALA:O	1:E:4100:GLN:HG2	2.15	0.45
1:G:121:LEU:HB2	1:G:134:ASP:HB2	1.98	0.45
1:G:2512:ILE:HG13	1:G:2565:CYS:SG	2.57	0.45
1:G:2623:LEU:O	1:G:2627:VAL:HG23	2.16	0.45
1:G:4648:LEU:HD12	1:G:4803:HIS:CE1	2.51	0.45
1:G:4652:LEU:O	1:G:4656:LEU:HG	2.16	0.45
1:G:4822:THR:O	1:G:4825:THR:OG1	2.22	0.45
1:J:358:THR:HG21	1:J:382:GLY:HA2	1.98	0.45
1:J:459:LEU:HB3	1:J:463:GLU:HG3	1.98	0.45
1:J:800:PHE:HD2	1:J:804:PRO:HG3	1.81	0.45
1:J:1297:PHE:CD2	1:J:1522:LEU:HA	2.51	0.45
1:J:3524:MET:HA	1:J:3582:ARG:HH22	1.81	0.45
1:J:3906:GLN:HB2	1:J:3912:THR:HA	1.98	0.45
3:C:43:LYS:HD2	3:C:44:GLN:O	2.16	0.45
3:K:43:LYS:HD2	3:K:44:GLN:O	2.16	0.45
1:B:1256:GLU:OE1	1:B:1275:ARG:NH2	2.47	0.45
1:B:1297:PHE:CD2	1:B:1522:LEU:HA	2.51	0.45
1:B:2623:LEU:O	1:B:2627:VAL:HG23	2.16	0.45
1:B:3885:PHE:HE1	1:B:3919:THR:HG23	1.81	0.45
1:E:840:VAL:HG12	1:E:1199:VAL:HG12	1.99	0.45
1:E:2012:PHE:CZ	1:E:2031:LEU:HD23	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2489:LYS:HE3	1:E:2491:SER:HB3	1.98	0.45
1:E:2505:PHE:O	1:E:2509:VAL:HG22	2.16	0.45
1:E:2623:LEU:O	1:E:2627:VAL:HG23	2.16	0.45
1:E:4105:GLY:HA2	1:E:4108:ILE:HG12	1.98	0.45
1:G:790:ARG:HD2	1:G:1624:LEU:HB3	1.97	0.45
1:G:1093:GLU:HB2	1:G:1148:VAL:HG12	1.98	0.45
1:G:2624:ARG:HG3	1:G:2625:ARG:HH21	1.81	0.45
1:G:2874:MET:HG2	1:G:2937:VAL:HG21	1.98	0.45
1:G:2926:LEU:O	1:G:2930:LEU:HG	2.16	0.45
1:G:3157:ILE:HG22	1:G:3157:ILE:O	2.15	0.45
1:G:3198:ALA:HA	1:G:3201:MET:HG3	1.97	0.45
1:G:3702:VAL:HG11	1:G:3773:ARG:HB3	1.98	0.45
1:G:3893:GLU:HA	1:G:3967:GLU:OE2	2.16	0.45
1:J:840:VAL:HG12	1:J:1199:VAL:HG12	1.99	0.45
1:J:1024:TYR:OH	1:J:1036:ARG:HG3	2.15	0.45
1:J:1115:LEU:HD13	1:J:1193:SER:HB2	1.98	0.45
1:J:2588:ARG:NH1	1:J:2901:THR:HB	2.31	0.45
1:J:2874:MET:HG2	1:J:2937:VAL:HG21	1.98	0.45
1:J:3057:PHE:HB2	1:J:3060:ASP:HB2	1.98	0.45
1:J:3658:LYS:HB2	1:J:3658:LYS:HE3	1.79	0.45
1:J:4000:MET:HE1	1:J:4061:PHE:HB2	1.99	0.45
1:J:4105:GLY:HA2	1:J:4108:ILE:HG12	1.98	0.45
2:H:78:PRO:HG3	2:H:95:ALA:H	1.81	0.45
2:I:78:PRO:HG3	2:I:95:ALA:H	1.81	0.45
3:K:111:ASN:O	3:K:114:TYR:HB2	2.16	0.45
1:B:118:LEU:HA	1:B:137:LEU:HD23	1.99	0.45
1:B:1561:VAL:HG23	1:B:1562:ILE:N	2.32	0.45
1:B:1704:PRO:O	1:B:1708:ARG:HG2	2.16	0.45
1:B:3319:ILE:O	1:B:3322:ILE:HG22	2.16	0.45
1:E:597:HIS:HB2	1:E:1665:HIS:CG	2.50	0.45
1:E:4219:PHE:HD1	1:E:4950:VAL:HG11	1.81	0.45
1:G:1066:GLN:HA	1:G:1069:TRP:HE3	1.81	0.45
1:G:2992:GLU:O	1:G:2996:LYS:HG2	2.16	0.45
1:G:4675:LYS:O	1:G:4679:ARG:HG2	2.15	0.45
1:J:2623:LEU:O	1:J:2627:VAL:HG23	2.16	0.45
1:J:2625:ARG:HH22	1:J:2907:PRO:HD2	1.82	0.45
2:H:15:PHE:CE1	2:H:67:SER:HB3	2.50	0.45
3:F:66:ARG:HE	3:F:83:ASN:HB2	1.80	0.45
1:B:790:ARG:HD2	1:B:1624:LEU:HB3	1.97	0.45
1:B:2759:ALA:HB1	1:B:2806:ARG:HA	1.98	0.45
1:B:3057:PHE:HB2	1:B:3060:ASP:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3225:ARG:O	1:B:3229:ILE:HG23	2.16	0.45
1:B:3511:VAL:O	1:B:3516:LYS:HG2	2.17	0.45
1:B:3828:PHE:O	1:B:3832:ILE:HG12	2.17	0.45
1:E:358:THR:HG21	1:E:382:GLY:HA2	1.98	0.45
1:E:1802:ILE:O	1:E:1804:LEU:HD22	2.17	0.45
1:E:2293:GLN:HA	1:E:2296:GLU:HG3	1.98	0.45
1:E:2874:MET:HG2	1:E:2937:VAL:HG21	1.98	0.45
1:E:2992:GLU:O	1:E:2996:LYS:HG2	2.16	0.45
1:E:3163:VAL:HA	1:E:3166:TYR:HD2	1.82	0.45
1:G:2117:VAL:HA	1:G:2120:MET:HG2	1.98	0.45
1:G:3776:ALA:HB1	1:G:3816:MET:HG3	1.98	0.45
1:G:4664:LEU:HD12	1:G:4665:LYS:HB2	1.98	0.45
1:J:1000:ARG:HB3	1:J:1005:TRP:HB2	1.97	0.45
1:J:1802:ILE:O	1:J:1804:LEU:HD22	2.17	0.45
1:J:2739:PRO:HG3	1:J:2888:ARG:HG2	1.97	0.45
1:J:2806:ARG:HH11	1:J:2810:LYS:HG3	1.81	0.45
1:J:2992:GLU:O	1:J:2996:LYS:HG2	2.16	0.45
1:J:3163:VAL:HA	1:J:3166:TYR:HD2	1.82	0.45
1:J:3384:LYS:HG2	1:J:3386:GLU:H	1.82	0.45
1:J:3702:VAL:HG11	1:J:3773:ARG:HB3	1.98	0.45
1:J:3893:GLU:HA	1:J:3967:GLU:OE2	2.16	0.45
1:J:4024:VAL:HA	1:J:4027:LEU:HD12	1.99	0.45
1:J:4772:ASP:OD1	1:J:4772:ASP:N	2.49	0.45
3:C:64:LYS:HG3	3:C:86:LYS:NZ	2.31	0.45
3:F:64:LYS:HG3	3:F:86:LYS:NZ	2.32	0.45
3:M:66:ARG:HE	3:M:83:ASN:HB2	1.80	0.45
1:B:829:TYR:HB2	1:B:1075:PHE:CE1	2.50	0.45
1:B:1000:ARG:HB3	1:B:1005:TRP:HB2	1.97	0.45
1:B:3339:ALA:O	1:B:3343:GLN:HG2	2.15	0.45
1:E:2588:ARG:NH1	1:E:2901:THR:HB	2.31	0.45
1:E:4677:LEU:HA	1:E:4680:LYS:NZ	2.31	0.45
1:E:4704:LEU:HA	1:E:4774:LYS:HE2	1.99	0.45
1:G:783:PHE:CZ	1:G:1615:VAL:HG11	2.51	0.45
1:G:1741:GLU:O	1:G:1745:ILE:HG13	2.17	0.45
1:G:2587:TYR:OH	1:G:2629:ASP:OD2	2.27	0.45
1:G:3339:ALA:O	1:G:3343:GLN:HG2	2.15	0.45
1:G:3511:VAL:O	1:G:3516:LYS:HG2	2.17	0.45
1:J:251:ALA:C	1:J:255:HIS:HD1	2.19	0.45
1:J:1547:LYS:HZ1	1:J:1645:ASN:HB2	1.80	0.45
1:J:2110:TYR:HB2	1:J:3694:LYS:HB2	1.99	0.45
1:J:2512:ILE:HG13	1:J:2565:CYS:SG	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2575:ARG:NH1	1:J:2575:ARG:HA	2.30	0.45
1:J:3204:ALA:HB1	1:J:3207:GLU:HB2	1.97	0.45
1:J:4856:PHE:HA	1:J:4876:CYS:SG	2.56	0.45
3:C:33:SER:HG	3:C:101:PRO:HA	1.82	0.45
1:B:1037:ASP:O	1:B:1041:GLN:HG2	2.17	0.45
1:B:2439:GLU:CD	1:B:2508:ARG:HH22	2.20	0.45
1:B:2625:ARG:HH22	1:B:2907:PRO:HD2	1.82	0.45
1:B:2806:ARG:HH11	1:B:2810:LYS:HG3	1.81	0.45
1:B:3906:GLN:HB2	1:B:3912:THR:HA	1.98	0.45
1:B:4048:LEU:HD11	1:B:4150:LEU:HD13	1.98	0.45
1:B:4131:ARG:HG3	1:B:4132:PHE:CD1	2.52	0.45
1:B:4648:LEU:HD12	1:B:4803:HIS:CE1	2.51	0.45
1:B:4704:LEU:HA	1:B:4774:LYS:HE2	1.99	0.45
1:B:4856:PHE:HA	1:B:4876:CYS:SG	2.56	0.45
1:B:5003:HIS:HD2	1:B:5007:GLU:HB3	1.82	0.45
1:E:710:ASP:OD1	1:E:711:LEU:N	2.49	0.45
1:E:920:TYR:CG	3:F:101:PRO:HG3	2.51	0.45
1:E:1000:ARG:HB3	1:E:1005:TRP:HB2	1.97	0.45
1:E:2512:ILE:HG13	1:E:2565:CYS:SG	2.57	0.45
1:E:2627:VAL:O	1:E:2631:PRO:HD3	2.17	0.45
1:E:3319:ILE:O	1:E:3322:ILE:HG22	2.16	0.45
1:E:3906:GLN:HB2	1:E:3912:THR:HA	1.98	0.45
1:G:2739:PRO:HG3	1:G:2888:ARG:HG2	1.98	0.45
1:G:3937:TYR:OH	1:G:3944:GLU:HG2	2.17	0.45
1:G:4105:GLY:HA2	1:G:4108:ILE:HG12	1.99	0.45
1:G:4838:VAL:HA	1:G:4841:VAL:HG22	1.99	0.45
1:G:4856:PHE:HA	1:G:4876:CYS:SG	2.56	0.45
1:J:783:PHE:CZ	1:J:1615:VAL:HG11	2.51	0.45
1:J:2355:ARG:HD3	1:J:2358:ILE:HD11	1.99	0.45
1:J:2694:GLU:O	1:J:2698:MET:HG3	2.17	0.45
1:J:2892:GLN:O	1:J:2895:GLU:HG2	2.16	0.45
1:J:3266:MET:HG2	1:J:3266:MET:O	2.16	0.45
1:J:3828:PHE:O	1:J:3832:ILE:HG12	2.17	0.45
1:J:4648:LEU:HD12	1:J:4803:HIS:HE1	1.81	0.45
1:J:4666:VAL:O	1:J:4670:ILE:HG12	2.15	0.45
1:B:1115:LEU:HD13	1:B:1193:SER:HB2	1.98	0.45
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.98	0.45
1:B:3163:VAL:HA	1:B:3166:TYR:HD2	1.82	0.45
1:B:4105:GLY:HA2	1:B:4108:ILE:HG12	1.99	0.45
1:B:4648:LEU:HD12	1:B:4803:HIS:HE1	1.81	0.45
1:E:114:SER:HB3	1:E:116:MET:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1066:GLN:HA	1:E:1069:TRP:HE3	1.81	0.45
1:E:1297:PHE:CD2	1:E:1522:LEU:HA	2.51	0.45
1:E:1561:VAL:HG23	1:E:1562:ILE:HG12	1.99	0.45
1:E:2110:TYR:HB2	1:E:3694:LYS:HB2	1.99	0.45
1:E:2215:LEU:HD11	1:E:2229:VAL:HG22	1.99	0.45
1:E:2625:ARG:HH22	1:E:2907:PRO:HD2	1.82	0.45
1:E:2751:LEU:HD12	1:E:2823:ILE:HD11	1.99	0.45
1:E:4024:VAL:HA	1:E:4027:LEU:HD12	1.99	0.45
1:G:1115:LEU:HD13	1:G:1193:SER:HB2	1.99	0.45
1:G:2247:GLN:HG3	1:G:2279:SER:HA	1.99	0.45
1:G:2380:ILE:O	1:G:2384:ILE:HG13	2.15	0.45
1:G:2505:PHE:O	1:G:2509:VAL:HG22	2.16	0.45
1:G:2751:LEU:HD12	1:G:2823:ILE:HD11	1.99	0.45
1:G:2957:PHE:HE2	1:G:3034:LYS:HG3	1.81	0.45
1:G:3524:MET:HA	1:G:3582:ARG:HH22	1.81	0.45
1:G:3828:PHE:O	1:G:3832:ILE:HG12	2.17	0.45
1:G:4648:LEU:HD12	1:G:4803:HIS:HE1	1.81	0.45
1:J:118:LEU:HA	1:J:137:LEU:HD23	1.99	0.45
1:J:247:TYR:CD2	1:J:374:LYS:HB2	2.52	0.45
1:J:990:GLU:O	1:J:994:ASN:HB2	2.17	0.45
1:J:1561:VAL:HG23	1:J:1562:ILE:N	2.32	0.45
2:I:9:PRO:HA	2:I:70:GLN:HE22	1.82	0.45
1:B:840:VAL:HG12	1:B:1199:VAL:HG12	1.99	0.45
1:B:1078:GLU:HG2	1:B:1080:SER:H	1.82	0.45
1:B:2957:PHE:HE2	1:B:3034:LYS:HG3	1.81	0.45
1:B:3384:LYS:HG2	1:B:3386:GLU:H	1.82	0.45
1:B:3719:ASP:HB2	1:B:3722:TYR:HB3	1.98	0.45
1:B:4677:LEU:HA	1:B:4680:LYS:NZ	2.31	0.45
1:E:1561:VAL:HG23	1:E:1562:ILE:N	2.32	0.45
1:E:2117:VAL:HA	1:E:2120:MET:HG2	1.98	0.45
1:E:2368:LEU:HD11	1:E:2376:LEU:HB2	1.98	0.45
1:E:2747:ILE:H	1:E:2814:LYS:HZ2	1.64	0.45
1:E:2759:ALA:HB1	1:E:2806:ARG:HA	1.98	0.45
1:E:2926:LEU:O	1:E:2930:LEU:HG	2.15	0.45
1:E:3172:ILE:O	1:E:3175:LEU:HG	2.17	0.45
1:E:3384:LYS:HG2	1:E:3386:GLU:H	1.82	0.45
1:E:3845:ASN:O	1:E:3848:GLU:HG2	2.16	0.45
1:E:4000:MET:HE3	1:E:4061:PHE:HB2	1.99	0.45
1:E:5003:HIS:HD2	1:E:5007:GLU:HB3	1.82	0.45
1:G:248:GLU:HA	1:G:372:LEU:O	2.17	0.45
1:G:895:PRO:HA	1:G:905:PRO:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1802:ILE:O	1:G:1804:LEU:HD22	2.17	0.45
1:G:2747:ILE:HD11	1:G:2751:LEU:HD11	1.99	0.45
1:G:3384:LYS:NZ	1:G:3386:GLU:OE1	2.48	0.45
1:G:5003:HIS:HD2	1:G:5007:GLU:HB3	1.82	0.45
1:J:3319:ILE:O	1:J:3322:ILE:HG22	2.16	0.45
1:J:4838:VAL:HA	1:J:4841:VAL:HG22	1.99	0.45
2:D:9:PRO:HA	2:D:70:GLN:HE22	1.82	0.45
1:B:1802:ILE:O	1:B:1804:LEU:HD22	2.17	0.45
1:B:2512:ILE:HG13	1:B:2565:CYS:SG	2.57	0.45
1:B:2694:GLU:O	1:B:2698:MET:HG3	2.16	0.45
1:B:3776:ALA:HB1	1:B:3816:MET:HG3	1.98	0.45
1:B:3961:VAL:O	1:B:3965:LEU:HG	2.17	0.45
1:E:2892:GLN:O	1:E:2895:GLU:HG2	2.16	0.45
1:E:3828:PHE:O	1:E:3832:ILE:HG12	2.17	0.45
1:E:3885:PHE:HE1	1:E:3919:THR:HG23	1.81	0.45
1:E:4648:LEU:HD12	1:E:4803:HIS:CE1	2.51	0.45
1:G:1037:ASP:O	1:G:1041:GLN:HG2	2.17	0.45
1:G:2694:GLU:O	1:G:2698:MET:HG3	2.16	0.45
1:G:3319:ILE:O	1:G:3322:ILE:HG22	2.16	0.45
1:J:1741:GLU:O	1:J:1745:ILE:HG13	2.17	0.45
1:J:2247:GLN:HG3	1:J:2279:SER:HA	1.99	0.45
1:J:2505:PHE:O	1:J:2509:VAL:HG22	2.16	0.45
1:J:3037:GLU:HB2	1:J:3085:PRO:HG2	1.99	0.45
1:J:3343:GLN:O	1:J:3346:VAL:HG12	2.17	0.45
1:J:3445:TRP:HD1	1:J:3451:PHE:CE2	2.35	0.45
1:J:3511:VAL:O	1:J:3516:LYS:HG2	2.17	0.45
1:J:4219:PHE:HD1	1:J:4950:VAL:HG11	1.81	0.45
2:A:78:PRO:HG3	2:A:95:ALA:H	1.81	0.45
1:B:871:ARG:NH1	1:B:922:LEU:HD22	2.32	0.45
1:B:3752:SER:HB2	1:B:3755:GLU:HG3	1.99	0.45
1:E:1078:GLU:HG2	1:E:1080:SER:H	1.82	0.45
1:E:2747:ILE:HD11	1:E:2751:LEU:HD11	1.99	0.45
1:E:2788:HIS:CD2	1:E:2789:PRO:HD2	2.52	0.45
1:E:3937:TYR:OH	1:E:3944:GLU:HG2	2.17	0.45
1:G:800:PHE:HD2	1:G:804:PRO:HG3	1.81	0.45
1:G:2506:LEU:HD12	1:G:2510:TYR:HB2	1.99	0.45
1:G:2627:VAL:O	1:G:2631:PRO:HD3	2.17	0.45
1:G:2812:SER:HG	1:G:2882:TYR:HE1	1.63	0.45
1:G:3172:ILE:O	1:G:3175:LEU:HG	2.17	0.45
1:G:3445:TRP:HD1	1:G:3451:PHE:CE2	2.35	0.45
1:G:3752:SER:HB2	1:G:3755:GLU:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3961:VAL:O	1:G:3965:LEU:HG	2.17	0.45
1:G:3981:ALA:O	1:G:3986:TRP:NE1	2.49	0.45
1:J:2627:VAL:O	1:J:2631:PRO:HD3	2.17	0.45
1:J:2754:PHE:HE1	1:J:2933:ASN:ND2	2.13	0.45
1:J:3206:LEU:HD11	1:J:3276:MET:SD	2.57	0.45
1:J:3752:SER:O	1:J:3756:LYS:HG3	2.17	0.45
1:J:3961:VAL:O	1:J:3965:LEU:HG	2.17	0.45
3:C:14:ALA:HA	3:C:85:LEU:HB2	1.98	0.45
3:F:43:LYS:HD2	3:F:44:GLN:O	2.16	0.45
3:M:64:LYS:HG3	3:M:86:LYS:NZ	2.31	0.45
1:B:1455:PRO:HG3	1:B:1549:PHE:HE1	1.82	0.44
1:B:1508:ARG:HH21	1:E:2773:ASN:HA	1.82	0.44
1:B:2215:LEU:HD11	1:B:2229:VAL:HG22	1.99	0.44
1:E:251:ALA:C	1:E:255:HIS:HD1	2.19	0.44
1:E:277:GLY:N	1:E:316:PHE:O	2.45	0.44
1:E:2694:GLU:O	1:E:2698:MET:HG3	2.17	0.44
1:E:3719:ASP:HB2	1:E:3722:TYR:HB3	1.98	0.44
1:E:4048:LEU:HD11	1:E:4150:LEU:HD13	1.98	0.44
1:E:4838:VAL:HA	1:E:4841:VAL:HG22	1.99	0.44
1:G:840:VAL:HG12	1:G:1199:VAL:HG12	1.99	0.44
1:G:880:GLU:O	1:G:884:LEU:HG	2.17	0.44
1:G:990:GLU:O	1:G:994:ASN:HB2	2.17	0.44
1:G:2442:LEU:HA	1:G:2447:LYS:HZ2	1.82	0.44
1:G:2489:LYS:HE3	1:G:2491:SER:HB3	1.98	0.44
1:G:2773:ASN:HA	1:J:1508:ARG:HH21	1.82	0.44
1:G:3057:PHE:HB2	1:G:3060:ASP:HB2	1.98	0.44
1:G:3321:ARG:HA	1:G:3324:VAL:HG12	2.00	0.44
1:G:3367:LYS:O	1:G:3371:LYS:HG2	2.17	0.44
1:G:4232:GLU:OE1	1:G:5019:TRP:NE1	2.45	0.44
1:G:4953:ASP:O	1:G:4956:THR:OG1	2.29	0.44
1:J:1042:ALA:O	1:J:1046:LEU:HG	2.17	0.44
1:J:1623:ARG:HA	1:J:1623:ARG:HH11	1.82	0.44
1:J:2439:GLU:CD	1:J:2508:ARG:HH22	2.20	0.44
1:J:2759:ALA:HB1	1:J:2806:ARG:HA	1.98	0.44
1:J:2788:HIS:CD2	1:J:2789:PRO:HD2	2.52	0.44
1:J:2911:LEU:HD22	1:J:2915:GLU:OE2	2.17	0.44
1:J:3172:ILE:O	1:J:3175:LEU:HG	2.17	0.44
1:J:3332:ALA:HB1	1:J:3335:MET:HE3	1.99	0.44
3:K:14:ALA:HA	3:K:85:LEU:HB2	1.98	0.44
3:M:14:ALA:HA	3:M:85:LEU:HB2	1.98	0.44
1:B:954:LYS:HA	1:B:954:LYS:HD2	1.77	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1291:LEU:HB3	1:B:1595:LEU:HD11	2.00	0.44
1:B:2820:GLU:HG3	1:B:2821:TRP:CD1	2.53	0.44
1:B:3172:ILE:O	1:B:3175:LEU:HG	2.17	0.44
1:B:3884:LEU:O	1:B:3888:LEU:HG	2.18	0.44
1:E:121:LEU:HB2	1:E:134:ASP:HB2	1.98	0.44
1:E:2355:ARG:HD3	1:E:2358:ILE:HD11	1.99	0.44
1:E:2506:LEU:HD12	1:E:2510:TYR:HB2	1.99	0.44
1:G:1105:ALA:O	1:G:1189:LEU:N	2.46	0.44
1:G:1723:ALA:O	1:G:1727:ARG:HD3	2.18	0.44
1:G:2110:TYR:HB2	1:G:3694:LYS:HB2	1.99	0.44
1:G:3003:LEU:HB2	1:G:3004:PRO:HD3	1.98	0.44
1:G:3037:GLU:HB2	1:G:3085:PRO:HG2	1.99	0.44
1:G:3225:ARG:O	1:G:3229:ILE:HG23	2.16	0.44
1:G:4000:MET:HE3	1:G:4061:PHE:HB2	1.98	0.44
1:G:4131:ARG:HG3	1:G:4132:PHE:CD1	2.52	0.44
1:G:4704:LEU:HA	1:G:4774:LYS:HE2	1.99	0.44
1:J:114:SER:HB3	1:J:116:MET:HB3	1.98	0.44
1:J:2368:LEU:HD11	1:J:2376:LEU:HB2	1.98	0.44
1:J:3884:LEU:O	1:J:3888:LEU:HG	2.17	0.44
1:J:4013:LEU:O	1:J:4017:LEU:HG	2.17	0.44
1:J:4581:LYS:HG2	1:J:4632:LEU:HB2	2.00	0.44
2:D:78:PRO:HG3	2:D:95:ALA:H	1.81	0.44
2:H:9:PRO:HA	2:H:70:GLN:HE22	1.82	0.44
1:B:880:GLU:O	1:B:884:LEU:HG	2.17	0.44
1:B:1042:ALA:O	1:B:1046:LEU:HG	2.17	0.44
1:B:2318:TYR:HA	1:B:2395:PRO:HA	1.99	0.44
1:B:2495:VAL:HG22	1:B:2497:ASP:H	1.83	0.44
1:B:4559:PHE:CE1	1:B:4661:TYR:HB2	2.53	0.44
1:B:4838:VAL:HA	1:B:4841:VAL:HG22	1.99	0.44
1:E:871:ARG:NH1	1:E:922:LEU:HD22	2.32	0.44
1:E:1245:PHE:CD2	1:E:1290:ARG:HG2	2.52	0.44
1:E:2495:VAL:HG22	1:E:2497:ASP:H	1.83	0.44
1:E:3057:PHE:HB2	1:E:3060:ASP:HB2	1.98	0.44
1:E:3672:ARG:NH1	1:E:3676:ASP:OD2	2.51	0.44
1:E:4948:GLU:HA	1:E:4951:LYS:NZ	2.32	0.44
1:G:2439:GLU:CD	1:G:2508:ARG:HH22	2.20	0.44
1:G:2610:LEU:O	1:G:2614:ILE:HG12	2.18	0.44
1:G:2625:ARG:HH22	1:G:2907:PRO:HD2	1.82	0.44
1:G:2820:GLU:HG3	1:G:2821:TRP:CD1	2.53	0.44
1:G:2892:GLN:O	1:G:2895:GLU:HG2	2.16	0.44
1:G:3164:SER:O	1:G:3168:THR:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3343:GLN:O	1:G:3346:VAL:HG12	2.17	0.44
1:G:3752:SER:O	1:G:3756:LYS:HG3	2.17	0.44
1:G:3906:GLN:HB2	1:G:3912:THR:HA	1.98	0.44
1:J:1723:ALA:O	1:J:1727:ARG:HD3	2.18	0.44
1:J:2747:ILE:HD11	1:J:2751:LEU:HD11	1.99	0.44
1:J:3439:GLY:O	1:J:3443:ILE:HG23	2.18	0.44
1:J:3724:ALA:O	1:J:3728:ILE:HG13	2.17	0.44
1:B:384:MET:SD	1:B:384:MET:N	2.85	0.44
1:B:626:LEU:HB3	2:A:89:GLY:O	2.17	0.44
1:B:947:GLU:HA	1:B:950:LEU:HD12	2.00	0.44
1:B:2563:THR:HG22	1:B:2606:CYS:HA	2.00	0.44
1:B:2892:GLN:O	1:B:2895:GLU:HG2	2.16	0.44
1:B:2992:GLU:O	1:B:2996:LYS:HG2	2.16	0.44
1:B:3263:TYR:HE1	1:B:3326:ASN:ND2	2.16	0.44
1:B:3343:GLN:O	1:B:3346:VAL:HG12	2.17	0.44
1:B:3367:LYS:O	1:B:3371:LYS:HG2	2.17	0.44
1:B:3702:VAL:HG11	1:B:3773:ARG:HB3	1.98	0.44
1:B:4128:PHE:HA	1:B:4131:ARG:NE	2.32	0.44
1:E:118:LEU:HA	1:E:137:LEU:HD23	1.99	0.44
1:E:947:GLU:HA	1:E:950:LEU:HD12	2.00	0.44
1:E:1041:GLN:O	1:E:1045:THR:HG23	2.17	0.44
1:E:3445:TRP:HD1	1:E:3451:PHE:CE2	2.35	0.44
1:E:3724:ALA:O	1:E:3728:ILE:HG13	2.17	0.44
1:E:3884:LEU:O	1:E:3888:LEU:HG	2.18	0.44
1:E:4573:ILE:HG12	1:E:4646:LEU:HB3	1.99	0.44
1:E:4648:LEU:HD12	1:E:4803:HIS:HE1	1.81	0.44
1:G:414:PHE:CD1	1:G:441:VAL:HG21	2.53	0.44
1:G:792:LEU:HD22	1:G:799:GLU:H	1.81	0.44
1:G:920:TYR:CD2	3:M:101:PRO:HG3	2.53	0.44
1:G:1561:VAL:HG23	1:G:1562:ILE:N	2.32	0.44
1:G:2911:LEU:HD22	1:G:2915:GLU:OE2	2.17	0.44
1:G:3021:PRO:HD3	1:G:3036:LYS:NZ	2.32	0.44
1:G:3180:ASN:OD1	1:G:3181:THR:N	2.51	0.44
1:G:4024:VAL:HA	1:G:4027:LEU:HD12	1.99	0.44
1:G:4219:PHE:HD1	1:G:4950:VAL:HG11	1.81	0.44
1:G:4581:LYS:HG2	1:G:4632:LEU:HB2	2.00	0.44
1:G:4948:GLU:HA	1:G:4951:LYS:NZ	2.32	0.44
1:J:121:LEU:HB2	1:J:134:ASP:HB2	1.98	0.44
1:J:880:GLU:O	1:J:884:LEU:HG	2.17	0.44
1:J:947:GLU:HA	1:J:950:LEU:HD12	2.00	0.44
1:J:2489:LYS:HE3	1:J:2491:SER:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2610:LEU:O	1:J:2614:ILE:HG12	2.18	0.44
1:J:3003:LEU:HB2	1:J:3004:PRO:HD3	1.98	0.44
1:J:3719:ASP:HB2	1:J:3722:TYR:HB3	1.98	0.44
1:J:3842:LEU:HA	1:J:3874:VAL:C	2.37	0.44
1:J:3937:TYR:OH	1:J:3944:GLU:HG2	2.17	0.44
1:J:3955:MET:CE	1:J:4015:GLU:HG2	2.48	0.44
1:J:4580:TYR:CE2	1:J:4807:PHE:HE1	2.36	0.44
1:J:4704:LEU:HA	1:J:4774:LYS:HE2	1.99	0.44
2:A:9:PRO:HA	2:A:70:GLN:HE22	1.82	0.44
1:B:1041:GLN:O	1:B:1045:THR:HG23	2.17	0.44
1:B:1561:VAL:HG23	1:B:1562:ILE:HG12	1.99	0.44
1:B:2230:THR:O	1:B:2234:ARG:HG3	2.18	0.44
1:B:2368:LEU:HD11	1:B:2376:LEU:HB2	1.98	0.44
1:B:2911:LEU:HD22	1:B:2915:GLU:OE2	2.17	0.44
1:B:3021:PRO:HD3	1:B:3036:LYS:NZ	2.32	0.44
1:B:3192:GLU:OE1	1:B:3196:ARG:NH2	2.51	0.44
1:B:3937:TYR:OH	1:B:3944:GLU:HG2	2.17	0.44
1:E:1042:ALA:O	1:E:1046:LEU:HG	2.17	0.44
1:E:1547:LYS:HZ1	1:E:1645:ASN:HB2	1.81	0.44
1:E:2911:LEU:HD22	1:E:2915:GLU:OE2	2.17	0.44
1:E:3511:VAL:O	1:E:3516:LYS:HG2	2.17	0.44
1:E:3730:ALA:O	1:E:3734:HIS:CD2	2.71	0.44
1:E:3842:LEU:HA	1:E:3874:VAL:C	2.37	0.44
1:E:4558:ASN:O	1:E:4562:LEU:HG	2.17	0.44
1:E:4559:PHE:CE1	1:E:4661:TYR:HB2	2.52	0.44
1:G:1042:ALA:O	1:G:1046:LEU:HG	2.17	0.44
1:G:1245:PHE:CD2	1:G:1290:ARG:HG2	2.52	0.44
1:G:1623:ARG:HA	1:G:1623:ARG:HH11	1.82	0.44
1:G:1813:ARG:HH22	1:G:1814:MET:HE2	1.81	0.44
1:G:2368:LEU:HD11	1:G:2376:LEU:HB2	1.98	0.44
1:G:2867:LEU:HG	1:G:2868:SER:H	1.83	0.44
1:G:3163:VAL:HA	1:G:3166:TYR:HD2	1.82	0.44
1:G:3439:GLY:O	1:G:3443:ILE:HG23	2.18	0.44
1:G:3730:ALA:O	1:G:3734:HIS:CD2	2.71	0.44
1:G:3885:PHE:HE1	1:G:3919:THR:HG23	1.81	0.44
1:G:4580:TYR:CE2	1:G:4807:PHE:HE1	2.36	0.44
1:J:2293:GLN:HA	1:J:2296:GLU:HG3	1.98	0.44
1:J:2563:THR:HG22	1:J:2606:CYS:HA	2.00	0.44
1:J:3885:PHE:HE1	1:J:3919:THR:HG23	1.82	0.44
1:B:414:PHE:CD1	1:B:441:VAL:HG21	2.53	0.44
1:B:2747:ILE:HD11	1:B:2751:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3321:ARG:HA	1:B:3324:VAL:HG12	2.00	0.44
1:B:3439:GLY:O	1:B:3443:ILE:HG23	2.18	0.44
1:B:3760:LYS:HA	1:B:3760:LYS:HD3	1.86	0.44
1:B:3842:LEU:HA	1:B:3874:VAL:C	2.38	0.44
1:E:100:THR:HG21	1:E:162:LYS:HD3	2.00	0.44
1:E:148:TRP:HA	1:E:173:SER:HA	2.00	0.44
1:E:210:GLU:HG3	1:E:213:TYR:HB2	1.99	0.44
1:E:990:GLU:O	1:E:994:ASN:HB2	2.17	0.44
1:E:1455:PRO:HG3	1:E:1549:PHE:HE1	1.82	0.44
1:E:2439:GLU:CD	1:E:2508:ARG:HH22	2.20	0.44
1:E:2820:GLU:HG3	1:E:2821:TRP:CD1	2.53	0.44
1:E:3343:GLN:O	1:E:3346:VAL:HG12	2.17	0.44
1:E:3702:VAL:HG11	1:E:3773:ARG:HB3	1.98	0.44
1:E:3752:SER:O	1:E:3756:LYS:HG3	2.17	0.44
1:E:3934:TYR:CE1	1:E:3999:MET:HB2	2.53	0.44
1:G:114:SER:HB3	1:G:116:MET:HB3	1.98	0.44
1:G:1000:ARG:HB3	1:G:1005:TRP:HB2	1.97	0.44
1:G:1116:GLY:HA3	1:G:1132:TRP:HB3	2.00	0.44
1:G:1291:LEU:HB3	1:G:1595:LEU:HD11	2.00	0.44
1:G:2230:THR:O	1:G:2234:ARG:HG3	2.18	0.44
1:G:3842:LEU:HA	1:G:3874:VAL:C	2.37	0.44
1:G:4558:ASN:O	1:G:4562:LEU:HG	2.17	0.44
1:J:871:ARG:NH1	1:J:922:LEU:HD22	2.33	0.44
1:J:2263:ILE:HA	1:J:2330:ARG:HH12	1.83	0.44
1:J:2593:ARG:H	1:J:2593:ARG:HD3	1.82	0.44
1:J:3019:SER:OG	1:J:3023:LYS:O	2.26	0.44
1:J:3320:LEU:HD22	1:J:3357:HIS:HB3	2.00	0.44
1:J:3321:ARG:HA	1:J:3324:VAL:HG12	1.99	0.44
1:J:3845:ASN:O	1:J:3848:GLU:HG2	2.16	0.44
1:B:114:SER:HB3	1:B:116:MET:HB3	1.98	0.44
1:B:990:GLU:O	1:B:994:ASN:HB2	2.17	0.44
1:B:1066:GLN:HA	1:B:1069:TRP:HE3	1.81	0.44
1:B:1727:ARG:HH21	1:B:1775:HIS:HA	1.82	0.44
1:B:2110:TYR:HB2	1:B:3694:LYS:HB2	1.99	0.44
1:B:2247:GLN:HG3	1:B:2279:SER:HA	1.99	0.44
1:B:2751:LEU:HD12	1:B:2823:ILE:HD11	1.99	0.44
1:B:3955:MET:CE	1:B:4015:GLU:HG2	2.48	0.44
1:B:4581:LYS:HG2	1:B:4632:LEU:HB2	2.00	0.44
1:B:4931:ILE:O	1:B:4935:LEU:HG	2.18	0.44
1:E:283:ARG:HG2	1:E:284:HIS:N	2.33	0.44
1:E:3019:SER:OG	1:E:3023:LYS:O	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3192:GLU:OE1	1:E:3196:ARG:NH2	2.51	0.44
1:E:3263:TYR:HE1	1:E:3326:ASN:ND2	2.16	0.44
1:E:3320:LEU:HD22	1:E:3357:HIS:HB3	2.00	0.44
1:E:3752:SER:HB2	1:E:3755:GLU:HG3	1.99	0.44
1:G:1518:CYS:HB3	1:G:1527:MET:HE1	2.00	0.44
1:G:3192:GLU:OE1	1:G:3196:ARG:NH2	2.51	0.44
1:G:3320:LEU:HD22	1:G:3357:HIS:HB3	2.00	0.44
1:J:148:TRP:HA	1:J:173:SER:HA	2.00	0.44
1:J:1041:GLN:O	1:J:1045:THR:HG23	2.17	0.44
1:J:1780:PRO:HG2	2:I:42:ARG:HD3	2.00	0.44
1:J:5003:HIS:HD2	1:J:5007:GLU:HB3	1.82	0.44
3:F:14:ALA:HA	3:F:85:LEU:HB2	1.98	0.44
3:F:34:MET:HE1	3:F:95:CYS:HB2	1.98	0.44
3:K:64:LYS:HG3	3:K:86:LYS:NZ	2.31	0.44
1:B:100:THR:HG21	1:B:162:LYS:HD3	2.00	0.44
1:B:1741:GLU:O	1:B:1745:ILE:HG13	2.17	0.44
1:B:2506:LEU:HD12	1:B:2510:TYR:HB2	1.99	0.44
1:B:2610:LEU:O	1:B:2614:ILE:HG12	2.18	0.44
1:B:2627:VAL:O	1:B:2631:PRO:HD3	2.17	0.44
1:B:4013:LEU:O	1:B:4017:LEU:HG	2.17	0.44
1:B:4024:VAL:HA	1:B:4027:LEU:HD12	1.99	0.44
1:B:4573:ILE:HG12	1:B:4646:LEU:HB3	2.00	0.44
1:B:4580:TYR:CE2	1:B:4807:PHE:HE1	2.36	0.44
1:E:1573:MET:HE1	1:E:1587:PRO:HA	2.00	0.44
1:E:1691:GLN:NE2	1:E:1803:PRO:HD2	2.33	0.44
1:E:2593:ARG:H	1:E:2593:ARG:HD3	1.82	0.44
1:E:4131:ARG:HG3	1:E:4132:PHE:CD1	2.52	0.44
1:E:4998:LYS:HG3	1:E:5003:HIS:CE1	2.53	0.44
1:G:947:GLU:HA	1:G:950:LEU:HD12	2.00	0.44
1:G:981:GLN:HG3	1:G:1047:LEU:HD21	2.00	0.44
1:G:1078:GLU:HG2	1:G:1080:SER:H	1.82	0.44
1:G:3934:TYR:CE1	1:G:3999:MET:HB2	2.53	0.44
1:J:179:TYR:H	1:J:195:PHE:HA	1.83	0.44
1:J:981:GLN:HG3	1:J:1047:LEU:HD21	2.00	0.44
1:J:1245:PHE:CD2	1:J:1290:ARG:HG2	2.52	0.44
1:J:1455:PRO:HG3	1:J:1549:PHE:HE1	1.82	0.44
1:J:1743:ARG:O	1:J:1964:ARG:NH1	2.51	0.44
1:J:2318:TYR:HA	1:J:2395:PRO:HA	1.99	0.44
1:J:2742:THR:HG21	1:J:2815:ALA:N	2.33	0.44
1:J:3367:LYS:O	1:J:3371:LYS:HG2	2.17	0.44
1:J:3994:HIS:O	1:J:3998:HIS:ND1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:668:VAL:O	1:B:741:GLU:N	2.51	0.44
1:B:1723:ALA:O	1:B:1727:ARG:HD3	2.18	0.44
1:B:1743:ARG:O	1:B:1964:ARG:NH1	2.51	0.44
1:B:2107:GLN:HA	1:B:3694:LYS:NZ	2.33	0.44
1:B:2624:ARG:HD2	1:B:2910:THR:CG2	2.48	0.44
1:B:2965:ARG:HA	1:B:2968:ASP:OD2	2.18	0.44
1:B:3037:GLU:HB2	1:B:3085:PRO:HG2	1.99	0.44
1:B:3042:LEU:HA	1:B:3045:LYS:HD2	2.00	0.44
1:B:3127:GLN:HB2	1:B:3130:THR:HG22	2.00	0.44
1:B:3730:ALA:O	1:B:3734:HIS:CD2	2.71	0.44
1:B:3934:TYR:CE1	1:B:3999:MET:HB2	2.53	0.44
1:E:179:TYR:H	1:E:195:PHE:HA	1.83	0.44
1:E:1291:LEU:HB3	1:E:1595:LEU:HD11	2.00	0.44
1:E:1741:GLU:O	1:E:1745:ILE:HG13	2.17	0.44
1:E:2563:THR:HG22	1:E:2606:CYS:HA	2.00	0.44
1:E:2610:LEU:O	1:E:2614:ILE:HG12	2.18	0.44
1:E:3127:GLN:HB2	1:E:3130:THR:HG22	2.00	0.44
1:E:3206:LEU:HD11	1:E:3276:MET:SD	2.58	0.44
1:E:4931:ILE:O	1:E:4935:LEU:HG	2.18	0.44
1:G:246:TYR:HA	1:G:374:LYS:O	2.18	0.44
1:G:548:VAL:HA	1:G:551:LEU:HG	2.00	0.44
1:G:678:GLN:HA	2:H:40:ARG:NH2	2.32	0.44
1:G:871:ARG:NH1	1:G:922:LEU:HD22	2.32	0.44
1:G:1041:GLN:O	1:G:1045:THR:HG23	2.17	0.44
1:G:1561:VAL:HG23	1:G:1562:ILE:HG12	1.99	0.44
1:G:1698:LEU:HG	1:G:1712:TYR:CE1	2.53	0.44
1:G:2215:LEU:HD11	1:G:2229:VAL:HG22	1.99	0.44
1:G:2563:THR:HG22	1:G:2606:CYS:HA	2.00	0.44
1:G:2788:HIS:CD2	1:G:2789:PRO:HD2	2.52	0.44
1:G:3719:ASP:HB2	1:G:3722:TYR:HB3	1.98	0.44
1:J:217:GLY:O	1:J:261:ARG:NH1	2.51	0.44
1:J:414:PHE:CD1	1:J:441:VAL:HG21	2.53	0.44
1:J:1291:LEU:HB3	1:J:1595:LEU:HD11	2.00	0.44
1:J:2107:GLN:HA	1:J:3694:LYS:NZ	2.33	0.44
1:J:3021:PRO:HD3	1:J:3036:LYS:NZ	2.32	0.44
1:J:3042:LEU:HA	1:J:3045:LYS:HD2	2.00	0.44
1:J:3730:ALA:O	1:J:3734:HIS:CD2	2.71	0.44
1:J:4148:THR:O	1:J:4152:GLU:HG3	2.18	0.44
1:J:4998:LYS:HG3	1:J:5003:HIS:CE1	2.53	0.44
1:B:1245:PHE:CD2	1:B:1290:ARG:HG2	2.52	0.43
1:B:2355:ARG:HD3	1:B:2358:ILE:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2773:ASN:HA	1:G:1508:ARG:HH21	1.83	0.43
1:B:2788:HIS:CD2	1:B:2789:PRO:HD2	2.52	0.43
1:B:2827:ARG:NE	1:B:2935:TYR:OH	2.28	0.43
1:B:3445:TRP:HD1	1:B:3451:PHE:CE2	2.35	0.43
1:B:3752:SER:O	1:B:3756:LYS:HG3	2.17	0.43
1:B:4948:GLU:HA	1:B:4951:LYS:NZ	2.32	0.43
1:E:248:GLU:HB3	1:E:373:LYS:N	2.33	0.43
1:E:266:ARG:NH2	1:E:269:TRP:O	2.51	0.43
1:E:659:TYR:HB2	1:E:1017:ARG:NH2	2.32	0.43
1:E:1161:ILE:HD11	1:E:1177:THR:HG22	2.00	0.43
1:E:2230:THR:O	1:E:2234:ARG:HG3	2.18	0.43
1:E:2318:TYR:HA	1:E:2395:PRO:HA	1.99	0.43
1:E:3999:MET:HG3	1:E:4003:LEU:HG	2.00	0.43
1:E:4581:LYS:HG2	1:E:4632:LEU:HB2	2.00	0.43
1:G:996:TRP:O	1:G:1000:ARG:HG2	2.18	0.43
1:G:1727:ARG:HH21	1:G:1775:HIS:HA	1.82	0.43
1:G:2355:ARG:HD3	1:G:2358:ILE:HD11	1.99	0.43
1:G:2950:SER:O	1:G:2954:ARG:HG3	2.18	0.43
1:G:3384:LYS:HG2	1:G:3386:GLU:H	1.82	0.43
1:J:266:ARG:NH2	1:J:269:TRP:O	2.51	0.43
1:J:1561:VAL:HG23	1:J:1562:ILE:HG12	1.99	0.43
1:J:1691:GLN:NE2	1:J:1803:PRO:HD2	2.33	0.43
1:J:1698:LEU:HG	1:J:1712:TYR:CE1	2.53	0.43
1:J:2230:THR:O	1:J:2234:ARG:HG3	2.18	0.43
1:J:2755:ILE:HG22	1:J:2810:LYS:NZ	2.33	0.43
1:J:3967:GLU:CA	1:J:3970:GLN:HG2	2.39	0.43
1:J:4559:PHE:CE1	1:J:4661:TYR:HB2	2.53	0.43
3:F:52:THR:OG1	3:F:56:SER:HB2	2.18	0.43
1:B:981:GLN:HG3	1:B:1047:LEU:HD21	2.00	0.43
1:B:1623:ARG:HA	1:B:1623:ARG:HH11	1.83	0.43
1:B:4998:LYS:HG3	1:B:5003:HIS:CE1	2.53	0.43
1:E:1116:GLY:HA3	1:E:1132:TRP:HB3	2.00	0.43
1:E:1508:ARG:HH21	1:J:2773:ASN:HA	1.82	0.43
1:E:1723:ALA:O	1:E:1727:ARG:HD3	2.18	0.43
1:E:2867:LEU:HG	1:E:2868:SER:H	1.83	0.43
1:E:2967:MET:O	1:E:2970:SER:OG	2.27	0.43
1:E:3181:THR:O	1:E:3185:LYS:HG2	2.18	0.43
1:E:3367:LYS:O	1:E:3371:LYS:HG2	2.17	0.43
1:E:4727:LYS:HD3	1:E:4728:HIS:CE1	2.53	0.43
1:G:113:HIS:NE2	1:G:402:ARG:HB3	2.33	0.43
1:G:1455:PRO:HG3	1:G:1549:PHE:HE1	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2107:GLN:HA	1:G:3694:LYS:NZ	2.33	0.43
1:G:2495:VAL:HG22	1:G:2497:ASP:H	1.83	0.43
1:G:3206:LEU:HD11	1:G:3276:MET:SD	2.58	0.43
1:G:4559:PHE:CE1	1:G:4661:TYR:HB2	2.53	0.43
1:J:210:GLU:HG3	1:J:213:TYR:HB2	1.99	0.43
1:J:1037:ASP:O	1:J:1041:GLN:HG2	2.17	0.43
1:J:1646:ARG:NH1	1:J:1648:MET:SD	2.90	0.43
1:J:2867:LEU:HG	1:J:2868:SER:H	1.83	0.43
1:J:3180:ASN:OD1	1:J:3181:THR:N	2.51	0.43
1:J:3192:GLU:OE1	1:J:3196:ARG:NH2	2.51	0.43
1:J:4131:ARG:HG3	1:J:4132:PHE:CD1	2.52	0.43
3:F:39:GLN:HE21	3:F:92:VAL:HB	1.84	0.43
3:K:52:THR:OG1	3:K:56:SER:HB2	2.18	0.43
1:B:217:GLY:O	1:B:261:ARG:NH1	2.51	0.43
1:B:1161:ILE:HD11	1:B:1177:THR:HG22	2.00	0.43
1:B:1658:ASP:OD1	1:B:1658:ASP:N	2.51	0.43
1:B:2572:THR:O	1:B:2572:THR:HG22	2.19	0.43
1:B:2593:ARG:H	1:B:2593:ARG:HD3	1.82	0.43
1:B:3180:ASN:OD1	1:B:3181:THR:N	2.51	0.43
1:B:3337:ARG:HG2	1:B:3341:PHE:CD1	2.54	0.43
1:B:3672:ARG:NH1	1:B:3676:ASP:OD2	2.51	0.43
1:B:3724:ALA:O	1:B:3728:ILE:HG13	2.17	0.43
1:B:3994:HIS:O	1:B:3998:HIS:ND1	2.51	0.43
1:B:4000:MET:HE3	1:B:4061:PHE:HB2	1.99	0.43
1:B:4148:THR:O	1:B:4152:GLU:HG3	2.18	0.43
1:E:414:PHE:CD1	1:E:441:VAL:HG21	2.53	0.43
1:E:516:LYS:HE2	1:E:516:LYS:HB2	1.82	0.43
1:E:880:GLU:O	1:E:884:LEU:HG	2.17	0.43
1:E:1743:ARG:O	1:E:1964:ARG:NH1	2.51	0.43
1:E:2742:THR:HG21	1:E:2815:ALA:N	2.33	0.43
1:E:3104:GLU:O	1:E:3107:VAL:HG22	2.18	0.43
1:E:3180:ASN:OD1	1:E:3181:THR:N	2.51	0.43
1:E:3955:MET:CE	1:E:4015:GLU:HG2	2.48	0.43
1:E:4247:ILE:O	1:E:4251:ILE:HG13	2.18	0.43
1:G:228:ASP:O	1:G:250:GLY:N	2.51	0.43
1:G:1098:GLY:O	1:G:1127:HIS:HB2	2.19	0.43
1:G:1270:LEU:O	1:G:1563:GLN:HA	2.18	0.43
1:G:2230:THR:HG22	1:G:2234:ARG:HH11	1.82	0.43
1:G:2263:ILE:HA	1:G:2330:ARG:HH12	1.83	0.43
1:G:2447:LYS:O	1:G:2451:LEU:HG	2.19	0.43
1:G:3073:ARG:HA	1:G:3146:HIS:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3263:TYR:HE1	1:G:3326:ASN:ND2	2.16	0.43
1:G:3765:TYR:CE2	1:G:3769:ARG:HD3	2.54	0.43
1:G:4931:ILE:O	1:G:4935:LEU:HG	2.18	0.43
1:J:1727:ARG:HH21	1:J:1775:HIS:HA	1.82	0.43
1:J:2230:THR:HG22	1:J:2234:ARG:HH11	1.83	0.43
1:J:3934:TYR:CE1	1:J:3999:MET:HB2	2.52	0.43
1:J:4727:LYS:HD3	1:J:4728:HIS:CE1	2.53	0.43
1:B:2755:ILE:HG22	1:B:2810:LYS:NZ	2.33	0.43
1:B:3073:ARG:HA	1:B:3146:HIS:CE1	2.54	0.43
1:B:3206:LEU:HD11	1:B:3276:MET:SD	2.58	0.43
1:B:3320:LEU:HD22	1:B:3357:HIS:HB3	2.00	0.43
1:E:113:HIS:NE2	1:E:402:ARG:HB3	2.34	0.43
1:E:1270:LEU:O	1:E:1563:GLN:HA	2.18	0.43
1:E:1698:LEU:HG	1:E:1712:TYR:CE1	2.53	0.43
1:E:1699:GLU:HA	1:E:1814:MET:HE1	2.00	0.43
1:E:2965:ARG:HA	1:E:2968:ASP:OD2	2.18	0.43
1:E:3037:GLU:HB2	1:E:3085:PRO:HG2	1.99	0.43
1:E:3042:LEU:HA	1:E:3045:LYS:HD2	2.00	0.43
1:E:4996:ILE:HD13	6:E:5103:CFF:C8	2.49	0.43
1:G:700:GLU:N	1:G:705:ASN:OD1	2.52	0.43
1:G:1161:ILE:HD11	1:G:1177:THR:HG22	2.00	0.43
1:G:1857:GLU:O	1:G:1861:GLN:HG3	2.18	0.43
1:G:3337:ARG:HG2	1:G:3341:PHE:CD1	2.54	0.43
1:G:3724:ALA:O	1:G:3728:ILE:HG13	2.17	0.43
1:G:3884:LEU:O	1:G:3888:LEU:HG	2.18	0.43
1:G:4148:THR:O	1:G:4152:GLU:HG3	2.18	0.43
1:G:4727:LYS:HD3	1:G:4728:HIS:CE1	2.53	0.43
1:G:4823:LEU:O	1:G:4827:LEU:HG	2.19	0.43
1:J:488:LEU:HD11	1:J:540:PHE:CZ	2.54	0.43
1:J:1098:GLY:O	1:J:1127:HIS:HB2	2.19	0.43
1:J:2447:LYS:O	1:J:2451:LEU:HG	2.19	0.43
1:J:2558:VAL:O	1:J:2562:ILE:HG12	2.18	0.43
1:J:2691:TYR:HA	1:J:2696:TYR:CE1	2.54	0.43
1:J:2751:LEU:HD12	1:J:2823:ILE:HD11	1.99	0.43
1:J:3752:SER:HB2	1:J:3755:GLU:HG3	1.99	0.43
3:C:52:THR:OG1	3:C:56:SER:HB2	2.18	0.43
1:B:468:LEU:O	1:B:472:ARG:HG2	2.19	0.43
1:B:548:VAL:HA	1:B:551:LEU:HG	2.00	0.43
1:B:985:VAL:HG11	1:B:1040:CYS:SG	2.58	0.43
1:B:3104:GLU:O	1:B:3107:VAL:HG22	2.18	0.43
1:B:3568:SER:O	1:B:3571:TRP:NE1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1101:ARG:HB3	1:E:1123:VAL:HG21	2.01	0.43
1:E:2558:VAL:O	1:E:2562:ILE:HG12	2.18	0.43
1:E:3958:ALA:HA	1:E:3961:VAL:HG12	2.01	0.43
1:E:4148:THR:O	1:E:4152:GLU:HG3	2.18	0.43
1:G:100:THR:HG21	1:G:162:LYS:HD3	2.00	0.43
1:G:179:TYR:H	1:G:195:PHE:HA	1.83	0.43
1:G:283:ARG:HG2	1:G:284:HIS:N	2.33	0.43
1:G:2819:TRP:NE1	1:G:2881:ASN:OD1	2.36	0.43
1:G:4998:LYS:HG3	1:G:5003:HIS:CE1	2.53	0.43
1:J:985:VAL:HG11	1:J:1040:CYS:SG	2.58	0.43
1:J:996:TRP:O	1:J:1000:ARG:HG2	2.18	0.43
1:J:1101:ARG:HB3	1:J:1123:VAL:HG21	2.01	0.43
1:J:1161:ILE:HD11	1:J:1177:THR:HG22	2.00	0.43
1:J:3086:GLU:HA	1:J:3089:LYS:HE3	2.00	0.43
1:J:3104:GLU:O	1:J:3107:VAL:HG22	2.18	0.43
1:J:4558:ASN:O	1:J:4562:LEU:HG	2.17	0.43
1:J:4931:ILE:O	1:J:4935:LEU:HG	2.18	0.43
1:J:4996:ILE:HD13	6:J:5103:CFF:C8	2.49	0.43
1:B:210:GLU:HG3	1:B:213:TYR:HB2	1.99	0.43
1:B:1116:GLY:HA3	1:B:1132:TRP:HB3	1.99	0.43
1:B:1270:LEU:O	1:B:1563:GLN:HA	2.18	0.43
1:B:2950:SER:O	1:B:2954:ARG:HG3	2.18	0.43
1:B:4558:ASN:O	1:B:4562:LEU:HG	2.18	0.43
1:B:4727:LYS:HD3	1:B:4728:HIS:CE1	2.53	0.43
1:B:4823:LEU:O	1:B:4827:LEU:HG	2.19	0.43
1:E:1037:ASP:O	1:E:1041:GLN:HG2	2.17	0.43
1:E:1105:ALA:O	1:E:1189:LEU:N	2.46	0.43
1:E:2247:GLN:HG3	1:E:2279:SER:HA	1.99	0.43
1:E:2624:ARG:HD2	1:E:2910:THR:CG2	2.48	0.43
1:E:3765:TYR:CE2	1:E:3769:ARG:HD3	2.54	0.43
1:G:277:GLY:N	1:G:316:PHE:O	2.45	0.43
1:G:363:ASP:HB3	1:G:366:ALA:HB3	2.01	0.43
1:G:659:TYR:HB2	1:G:1017:ARG:NH2	2.32	0.43
1:G:870:ILE:HD12	1:G:1051:TYR:CE1	2.54	0.43
1:G:1743:ARG:O	1:G:1964:ARG:NH1	2.51	0.43
1:G:2212:VAL:HG22	1:G:2256:TYR:OH	2.19	0.43
1:G:2716:ASP:N	1:G:2716:ASP:OD1	2.52	0.43
1:G:3514:LEU:HD11	1:G:3606:LEU:HB2	2.00	0.43
1:G:3955:MET:CE	1:G:4015:GLU:HG2	2.48	0.43
1:G:4128:PHE:HA	1:G:4131:ARG:NE	2.33	0.43
1:G:4247:ILE:O	1:G:4251:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4996:ILE:HD13	6:G:5103:CFF:C8	2.49	0.43
1:J:668:VAL:O	1:J:741:GLU:N	2.51	0.43
1:J:1078:GLU:HG2	1:J:1080:SER:H	1.82	0.43
1:J:3672:ARG:NH1	1:J:3676:ASP:OD2	2.51	0.43
2:I:2:VAL:HG21	2:I:61:GLU:OE2	2.19	0.43
1:B:179:TYR:H	1:B:195:PHE:HA	1.83	0.43
1:B:627:PRO:HG3	2:A:89:GLY:H	1.84	0.43
1:B:1698:LEU:HG	1:B:1712:TYR:CE1	2.53	0.43
1:B:2210:VAL:O	1:B:2214:VAL:HG12	2.19	0.43
1:B:2230:THR:HG22	1:B:2234:ARG:HH11	1.83	0.43
1:B:2469:ILE:HD12	1:B:2472:LEU:HD12	2.01	0.43
1:B:2754:PHE:HE1	1:B:2933:ASN:ND2	2.13	0.43
1:B:3847:PHE:HD1	1:B:3850:GLN:HE21	1.67	0.43
1:B:3874:VAL:HG23	1:B:3875:MET:N	2.34	0.43
1:B:4664:LEU:HD12	1:B:4665:LYS:N	2.34	0.43
1:E:1780:PRO:HG2	2:D:42:ARG:HD3	2.00	0.43
1:E:2230:THR:HG22	1:E:2234:ARG:HH11	1.82	0.43
1:E:2572:THR:O	1:E:2572:THR:HG22	2.19	0.43
1:E:4128:PHE:HA	1:E:4131:ARG:NE	2.33	0.43
1:G:217:GLY:O	1:G:261:ARG:NH1	2.51	0.43
1:G:516:LYS:HE2	1:G:516:LYS:HB2	1.82	0.43
1:G:2558:VAL:O	1:G:2562:ILE:HG12	2.18	0.43
1:G:2572:THR:O	1:G:2572:THR:HG22	2.19	0.43
1:G:2624:ARG:HD2	1:G:2910:THR:CG2	2.48	0.43
1:G:2755:ILE:HG22	1:G:2810:LYS:NZ	2.33	0.43
1:G:3127:GLN:HB2	1:G:3130:THR:HG22	2.00	0.43
1:G:4013:LEU:O	1:G:4017:LEU:HG	2.18	0.43
1:J:468:LEU:O	1:J:472:ARG:HG2	2.19	0.43
1:J:1569:GLN:HB2	1:J:1572:ILE:HD12	2.00	0.43
1:J:1857:GLU:O	1:J:1861:GLN:HG3	2.18	0.43
1:J:2820:GLU:HG3	1:J:2821:TRP:CD1	2.53	0.43
3:M:39:GLN:HE21	3:M:92:VAL:HB	1.83	0.43
1:B:870:ILE:HD12	1:B:1051:TYR:CE1	2.54	0.43
1:B:883:ALA:HA	1:B:886:ARG:HH21	1.83	0.43
1:B:1599:MET:SD	1:B:1599:MET:N	2.92	0.43
1:B:2447:LYS:O	1:B:2451:LEU:HG	2.19	0.43
1:B:3051:ARG:HD2	1:B:3131:TYR:CE2	2.54	0.43
1:E:1839:VAL:O	1:E:1843:LYS:HG3	2.19	0.43
1:E:3051:ARG:HD2	1:E:3131:TYR:CE2	2.54	0.43
1:E:3086:GLU:HA	1:E:3089:LYS:HE3	2.00	0.43
1:E:3321:ARG:HA	1:E:3324:VAL:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3514:LEU:HD21	1:E:3606:LEU:HD22	2.00	0.43
1:E:3568:SER:O	1:E:3571:TRP:NE1	2.51	0.43
1:E:3961:VAL:O	1:E:3965:LEU:HG	2.18	0.43
1:E:4580:TYR:CE2	1:E:4807:PHE:HE1	2.36	0.43
1:G:118:LEU:HA	1:G:137:LEU:HD23	1.99	0.43
1:G:827:LYS:HE2	1:G:827:LYS:HB2	1.83	0.43
1:G:1839:VAL:O	1:G:1843:LYS:HG3	2.19	0.43
1:G:2957:PHE:HE1	1:G:2961:GLN:HE21	1.67	0.43
1:G:4045:VAL:O	1:G:4049:VAL:HG13	2.19	0.43
1:G:4573:ILE:HG12	1:G:4646:LEU:HB3	2.00	0.43
1:G:4664:LEU:HD12	1:G:4665:LYS:N	2.34	0.43
1:J:100:THR:HG21	1:J:162:LYS:HD3	2.00	0.43
1:J:113:HIS:NE2	1:J:402:ARG:HB3	2.34	0.43
1:J:257:ARG:O	1:J:284:HIS:NE2	2.34	0.43
1:J:1007:TYR:CD1	1:J:1022:VAL:HG13	2.54	0.43
1:J:1116:GLY:HA3	1:J:1132:TRP:HB3	2.00	0.43
1:J:1154:ASP:OD1	1:J:1159:THR:OG1	2.30	0.43
1:J:1839:VAL:O	1:J:1843:LYS:HG3	2.19	0.43
1:J:2013:LYS:NZ	1:J:3664:THR:OG1	2.38	0.43
1:J:2624:ARG:HD2	1:J:2910:THR:CG2	2.48	0.43
1:J:2716:ASP:N	1:J:2716:ASP:OD1	2.52	0.43
1:J:2965:ARG:HA	1:J:2968:ASP:OD2	2.18	0.43
1:J:3765:TYR:CE2	1:J:3769:ARG:HD3	2.54	0.43
2:A:7:ILE:HG21	2:A:71:ARG:HE	1.84	0.43
1:B:816:LEU:HB2	1:B:819:GLU:HB2	2.01	0.43
1:B:1691:GLN:NE2	1:B:1803:PRO:HD2	2.33	0.43
1:B:1857:GLU:O	1:B:1861:GLN:HG3	2.18	0.43
1:B:2748:PRO:HB2	1:B:2750:LYS:HG2	2.01	0.43
1:B:2957:PHE:HE1	1:B:2961:GLN:HE21	1.67	0.43
1:B:4088:ILE:HD12	1:B:4093:PHE:HD2	1.84	0.43
1:E:883:ALA:HA	1:E:886:ARG:HH21	1.83	0.43
1:E:981:GLN:HG3	1:E:1047:LEU:HD21	2.00	0.43
1:E:1098:GLY:O	1:E:1127:HIS:HB2	2.18	0.43
1:E:1623:ARG:HA	1:E:1623:ARG:HH11	1.82	0.43
1:E:2767:ALA:HB2	1:E:2791:LEU:HD21	2.01	0.43
1:E:2961:GLN:HA	1:E:2964:LEU:HD12	2.01	0.43
1:E:3233:PRO:HB2	1:E:3238:GLU:OE2	2.19	0.43
1:E:3994:HIS:O	1:E:3998:HIS:ND1	2.51	0.43
1:E:4013:LEU:O	1:E:4017:LEU:HG	2.17	0.43
1:G:148:TRP:HA	1:G:173:SER:HA	2.00	0.43
1:G:488:LEU:HD11	1:G:540:PHE:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2593:ARG:H	1:G:2593:ARG:HD3	1.82	0.43
1:G:3086:GLU:HA	1:G:3089:LYS:HE3	2.00	0.43
1:J:548:VAL:HA	1:J:551:LEU:HG	2.00	0.43
1:J:634:GLN:HG3	2:I:34:LYS:NZ	2.34	0.43
1:J:1105:ALA:O	1:J:1189:LEU:N	2.46	0.43
1:J:1518:CYS:HB3	1:J:1527:MET:HE1	2.00	0.43
1:J:2215:LEU:HD11	1:J:2229:VAL:HG22	1.99	0.43
1:J:2506:LEU:HD12	1:J:2510:TYR:HB2	1.99	0.43
1:J:2515:GLN:O	1:J:2519:LEU:HG	2.19	0.43
1:J:3683:GLN:H	1:J:3683:GLN:CD	2.22	0.43
1:J:4247:ILE:O	1:J:4251:ILE:HG13	2.18	0.43
1:J:4664:LEU:HD12	1:J:4665:LYS:N	2.34	0.43
1:J:4823:LEU:O	1:J:4827:LEU:HG	2.19	0.43
2:A:2:VAL:HG21	2:A:61:GLU:OE2	2.19	0.43
2:D:7:ILE:HG21	2:D:71:ARG:HE	1.84	0.43
3:C:39:GLN:HE21	3:C:92:VAL:HB	1.84	0.43
1:B:2263:ILE:HA	1:B:2330:ARG:HH12	1.83	0.43
1:B:2292:GLU:OE1	1:B:2292:GLU:N	2.42	0.43
1:B:2515:GLN:O	1:B:2519:LEU:HG	2.19	0.43
1:B:2742:THR:HG21	1:B:2815:ALA:N	2.33	0.43
1:B:2867:LEU:HG	1:B:2868:SER:H	1.83	0.43
1:B:3765:TYR:CE2	1:B:3769:ARG:HD3	2.54	0.43
1:B:4247:ILE:O	1:B:4251:ILE:HG13	2.18	0.43
1:B:4996:ILE:HD13	6:B:5103:CFF:C8	2.49	0.43
1:E:488:LEU:HD11	1:E:540:PHE:CZ	2.54	0.43
1:E:668:VAL:O	1:E:741:GLU:N	2.51	0.43
1:E:2716:ASP:OD1	1:E:2716:ASP:N	2.52	0.43
1:E:2827:ARG:NE	1:E:2935:TYR:OH	2.28	0.43
1:E:3439:GLY:O	1:E:3443:ILE:HG23	2.18	0.43
1:E:3514:LEU:HD11	1:E:3606:LEU:HB2	2.00	0.43
1:G:246:TYR:HB3	1:G:374:LYS:H	1.84	0.43
1:G:634:GLN:HG3	2:H:34:LYS:HZ2	1.84	0.43
1:G:2318:TYR:HA	1:G:2395:PRO:HA	1.99	0.43
1:G:2469:ILE:HD12	1:G:2472:LEU:HD12	2.01	0.43
1:G:3672:ARG:NH1	1:G:3676:ASP:OD2	2.51	0.43
1:J:283:ARG:HG2	1:J:284:HIS:N	2.33	0.43
1:J:1615:VAL:HG22	1:J:1630:CYS:SG	2.59	0.43
1:J:1658:ASP:OD1	1:J:1658:ASP:N	2.51	0.43
1:J:2495:VAL:HG22	1:J:2497:ASP:H	1.83	0.43
1:J:2748:PRO:HB2	1:J:2750:LYS:HG2	2.01	0.43
1:J:2909:ASP:C	1:J:2911:LEU:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2950:SER:O	1:J:2954:ARG:HG3	2.18	0.43
1:J:3263:TYR:HE1	1:J:3326:ASN:ND2	2.16	0.43
1:J:3999:MET:HG3	1:J:4003:LEU:HG	2.01	0.43
1:J:4088:ILE:HD12	1:J:4093:PHE:HD2	1.84	0.43
1:J:4573:ILE:HG12	1:J:4646:LEU:HB3	2.00	0.43
1:J:4948:GLU:HA	1:J:4951:LYS:NZ	2.32	0.43
3:F:34:MET:HE3	3:F:95:CYS:HB2	2.01	0.43
1:B:1098:GLY:O	1:B:1127:HIS:HB2	2.19	0.42
1:B:2212:VAL:HG22	1:B:2256:TYR:OH	2.19	0.42
1:B:2558:VAL:O	1:B:2562:ILE:HG12	2.18	0.42
1:B:2961:GLN:HA	1:B:2964:LEU:HD12	2.01	0.42
1:B:3514:LEU:HD21	1:B:3606:LEU:HD22	2.00	0.42
1:E:816:LEU:HB2	1:E:819:GLU:HB2	2.01	0.42
1:E:1658:ASP:OD1	1:E:1658:ASP:N	2.51	0.42
1:E:2107:GLN:HA	1:E:3694:LYS:NZ	2.33	0.42
1:E:2263:ILE:HA	1:E:2330:ARG:HH12	1.83	0.42
1:E:2748:PRO:HB2	1:E:2750:LYS:HG2	2.01	0.42
1:E:2754:PHE:HE1	1:E:2933:ASN:ND2	2.13	0.42
1:E:2888:ARG:O	1:E:2892:GLN:HG2	2.19	0.42
1:E:3886:ARG:HD2	1:E:3889:GLN:HE21	1.84	0.42
1:E:4823:LEU:O	1:E:4827:LEU:HG	2.19	0.42
1:G:210:GLU:HG3	1:G:213:TYR:HB2	1.99	0.42
1:G:266:ARG:NH2	1:G:269:TRP:O	2.51	0.42
1:G:887:ILE:HD13	1:G:959:TYR:HB3	2.01	0.42
1:G:985:VAL:HG11	1:G:1040:CYS:SG	2.58	0.42
1:G:1000:ARG:NH2	3:M:114:TYR:HA	2.34	0.42
1:G:1101:ARG:HB3	1:G:1123:VAL:HG21	2.01	0.42
1:G:3104:GLU:O	1:G:3107:VAL:HG22	2.18	0.42
1:G:3568:SER:O	1:G:3571:TRP:NE1	2.51	0.42
1:G:4088:ILE:HD12	1:G:4093:PHE:HD2	1.84	0.42
1:J:816:LEU:HB2	1:J:819:GLU:HB2	2.01	0.42
1:J:2210:VAL:O	1:J:2214:VAL:HG12	2.19	0.42
1:J:3127:GLN:HB2	1:J:3130:THR:HG22	2.00	0.42
1:J:3568:SER:O	1:J:3571:TRP:NE1	2.51	0.42
1:J:3870:ASN:O	1:J:3873:LYS:HG2	2.19	0.42
1:J:4088:ILE:O	1:J:4088:ILE:HG13	2.19	0.42
2:H:2:VAL:HG21	2:H:61:GLU:OE2	2.19	0.42
3:F:33:SER:HG	3:F:101:PRO:HA	1.84	0.42
1:B:926:GLY:O	1:B:930:LYS:HG3	2.19	0.42
1:B:996:TRP:O	1:B:1000:ARG:HG2	2.18	0.42
1:B:1224:GLU:OE2	1:B:1228:ILE:HG21	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1698:LEU:HG	1:B:1712:TYR:CZ	2.54	0.42
1:B:2211:MET:HE2	1:B:2272:PRO:HG3	2.02	0.42
1:B:3181:THR:O	1:B:3185:LYS:HG2	2.18	0.42
1:B:3233:PRO:HB2	1:B:3238:GLU:OE2	2.19	0.42
1:B:3886:ARG:HD2	1:B:3889:GLN:HE21	1.84	0.42
1:E:217:GLY:O	1:E:261:ARG:NH1	2.51	0.42
1:E:468:LEU:O	1:E:472:ARG:HG2	2.19	0.42
1:E:985:VAL:HG11	1:E:1040:CYS:SG	2.58	0.42
1:E:1224:GLU:OE2	1:E:1228:ILE:HG21	2.19	0.42
1:E:1698:LEU:HG	1:E:1712:TYR:CZ	2.54	0.42
1:E:2134:LEU:O	1:E:2138:LEU:HG	2.19	0.42
1:E:2212:VAL:HG22	1:E:2256:TYR:OH	2.19	0.42
1:E:2447:LYS:O	1:E:2451:LEU:HG	2.19	0.42
1:E:2770:LYS:HD3	1:E:2786:LYS:HE3	2.02	0.42
1:E:2950:SER:O	1:E:2954:ARG:HG3	2.18	0.42
1:E:3073:ARG:HA	1:E:3146:HIS:CE1	2.54	0.42
1:E:3842:LEU:HA	1:E:3874:VAL:O	2.20	0.42
1:E:4088:ILE:O	1:E:4088:ILE:HG13	2.19	0.42
1:E:4541:TRP:O	1:E:4544:LEU:HG	2.19	0.42
1:G:64:ILE:HG23	1:G:402:ARG:HH21	1.84	0.42
1:G:468:LEU:O	1:G:472:ARG:HG2	2.19	0.42
1:G:668:VAL:O	1:G:741:GLU:N	2.51	0.42
1:G:926:GLY:O	1:G:930:LYS:HG3	2.19	0.42
1:G:1569:GLN:HB2	1:G:1572:ILE:HD12	2.00	0.42
1:G:1698:LEU:HG	1:G:1712:TYR:CZ	2.54	0.42
1:G:2965:ARG:HA	1:G:2968:ASP:OD2	2.18	0.42
1:G:3528:THR:OG1	1:G:3561:GLY:O	2.36	0.42
1:G:3683:GLN:H	1:G:3683:GLN:CD	2.22	0.42
1:G:3847:PHE:HD1	1:G:3850:GLN:HE21	1.67	0.42
1:J:700:GLU:N	1:J:705:ASN:OD1	2.52	0.42
1:J:2212:VAL:HG22	1:J:2256:TYR:OH	2.19	0.42
1:J:2572:THR:O	1:J:2572:THR:HG22	2.19	0.42
1:J:2819:TRP:NE1	1:J:2881:ASN:OD1	2.36	0.42
1:J:3530:GLN:NE2	1:J:3531:ASP:OD1	2.52	0.42
1:J:3958:ALA:HA	1:J:3961:VAL:HG12	2.01	0.42
1:J:4045:VAL:O	1:J:4049:VAL:HG13	2.19	0.42
2:D:2:VAL:HG21	2:D:61:GLU:OE2	2.19	0.42
3:F:35:GLY:HA2	3:F:50:THR:HG23	2.02	0.42
1:B:148:TRP:HA	1:B:173:SER:HA	2.00	0.42
1:B:266:ARG:NH2	1:B:269:TRP:O	2.51	0.42
1:B:283:ARG:HG2	1:B:284:HIS:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:488:LEU:HD11	1:B:540:PHE:CZ	2.54	0.42
1:B:700:GLU:N	1:B:705:ASN:OD1	2.52	0.42
1:B:2134:LEU:O	1:B:2138:LEU:HG	2.19	0.42
1:B:2208:MET:O	1:B:2212:VAL:HG23	2.20	0.42
1:B:2767:ALA:HB2	1:B:2791:LEU:HD21	2.01	0.42
1:B:3842:LEU:HA	1:B:3874:VAL:O	2.20	0.42
1:B:3958:ALA:HA	1:B:3961:VAL:HG12	2.01	0.42
1:B:4045:VAL:O	1:B:4049:VAL:HG13	2.19	0.42
1:E:700:GLU:N	1:E:705:ASN:OD1	2.52	0.42
1:E:1599:MET:SD	1:E:1599:MET:N	2.92	0.42
1:E:2001:PRO:O	1:E:2005:GLN:HG3	2.20	0.42
1:E:4664:LEU:HD12	1:E:4665:LYS:N	2.34	0.42
1:G:1007:TYR:CD1	1:G:1022:VAL:HG13	2.54	0.42
1:G:1599:MET:SD	1:G:1599:MET:N	2.92	0.42
1:G:2210:VAL:O	1:G:2214:VAL:HG12	2.19	0.42
1:G:2742:THR:HG21	1:G:2815:ALA:N	2.33	0.42
1:G:2754:PHE:HE1	1:G:2933:ASN:ND2	2.13	0.42
1:G:2909:ASP:C	1:G:2911:LEU:H	2.22	0.42
1:J:149:THR:N	1:J:172:VAL:O	2.29	0.42
1:J:151:HIS:NE2	1:J:172:VAL:HB	2.35	0.42
1:J:870:ILE:HD12	1:J:1051:TYR:CE1	2.54	0.42
1:J:887:ILE:HD13	1:J:959:TYR:HB3	2.01	0.42
1:J:1224:GLU:OE2	1:J:1228:ILE:HG21	2.19	0.42
1:J:1691:GLN:O	1:J:1695:LEU:HG	2.20	0.42
1:B:2770:LYS:HD3	1:B:2786:LYS:HE3	2.01	0.42
1:B:2888:ARG:O	1:B:2892:GLN:HG2	2.19	0.42
1:B:3530:GLN:NE2	1:B:3531:ASP:OD1	2.53	0.42
1:B:3683:GLN:H	1:B:3683:GLN:CD	2.22	0.42
1:B:3999:MET:HG3	1:B:4003:LEU:HG	2.00	0.42
1:B:4088:ILE:O	1:B:4088:ILE:HG13	2.19	0.42
1:E:870:ILE:HD12	1:E:1051:TYR:CE1	2.54	0.42
1:E:2755:ILE:HG22	1:E:2810:LYS:NZ	2.33	0.42
1:E:3021:PRO:HD3	1:E:3036:LYS:NZ	2.32	0.42
1:E:3337:ARG:HG2	1:E:3341:PHE:CD1	2.54	0.42
1:E:3528:THR:OG1	1:E:3561:GLY:O	2.36	0.42
1:G:783:PHE:HZ	1:G:1615:VAL:HG11	1.84	0.42
1:G:816:LEU:HB2	1:G:819:GLU:HB2	2.01	0.42
1:G:1087:ARG:HB3	1:G:1223:PHE:HD1	1.83	0.42
1:G:1224:GLU:OE2	1:G:1228:ILE:HG21	2.19	0.42
1:G:1615:VAL:HG22	1:G:1630:CYS:SG	2.59	0.42
1:G:2001:PRO:O	1:G:2005:GLN:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2691:TYR:HA	1:G:2696:TYR:CE1	2.54	0.42
1:G:2767:ALA:HB2	1:G:2791:LEU:HD21	2.01	0.42
1:G:3007:ASN:HA	1:G:3070:ILE:HD11	2.02	0.42
1:G:3051:ARG:HD2	1:G:3131:TYR:CE2	2.54	0.42
1:G:3233:PRO:HB2	1:G:3238:GLU:OE2	2.19	0.42
1:G:3886:ARG:HD2	1:G:3889:GLN:HE21	1.84	0.42
1:G:3958:ALA:HA	1:G:3961:VAL:HG12	2.01	0.42
1:G:3994:HIS:O	1:G:3998:HIS:ND1	2.51	0.42
1:G:4960:ILE:HB	1:G:4983:HIS:HB3	2.02	0.42
1:J:2961:GLN:HA	1:J:2964:LEU:HD12	2.01	0.42
1:J:4960:ILE:HB	1:J:4983:HIS:HB3	2.02	0.42
2:H:7:ILE:HG21	2:H:71:ARG:HE	1.84	0.42
3:K:39:GLN:HE21	3:K:92:VAL:HB	1.84	0.42
3:M:51:ILE:HG13	3:M:57:ILE:HG12	2.01	0.42
1:B:113:HIS:NE2	1:B:402:ARG:HB3	2.33	0.42
1:B:1003:GLN:HG3	3:C:1:GLN:HE22	1.84	0.42
1:B:1569:GLN:HB2	1:B:1572:ILE:HD12	2.00	0.42
1:B:1615:VAL:HG22	1:B:1630:CYS:SG	2.59	0.42
1:B:3050:VAL:HG22	1:B:3131:TYR:CE1	2.55	0.42
1:B:3086:GLU:HA	1:B:3089:LYS:HE3	2.00	0.42
1:B:3458:PHE:CZ	1:B:3464:ILE:HG13	2.55	0.42
1:B:3514:LEU:HD11	1:B:3606:LEU:HB2	2.00	0.42
1:B:3944:GLU:O	1:B:3948:LYS:HG3	2.20	0.42
1:E:783:PHE:HZ	1:E:1615:VAL:HG11	1.84	0.42
1:E:800:PHE:CD2	1:E:804:PRO:HG3	2.55	0.42
1:E:926:GLY:O	1:E:930:LYS:HG3	2.19	0.42
1:E:1025:ARG:HG3	1:E:1026:LEU:HD12	2.02	0.42
1:E:2469:ILE:HD12	1:E:2472:LEU:HD12	2.01	0.42
1:E:2691:TYR:HA	1:E:2696:TYR:CE1	2.54	0.42
1:E:2909:ASP:C	1:E:2911:LEU:H	2.22	0.42
1:E:3458:PHE:CZ	1:E:3464:ILE:HG13	2.55	0.42
1:E:4998:LYS:HB2	1:E:4998:LYS:HE3	1.83	0.42
1:G:151:HIS:NE2	1:G:172:VAL:HB	2.35	0.42
1:G:722:TRP:CZ2	1:G:727:ALA:HB2	2.55	0.42
1:G:2748:PRO:HB2	1:G:2750:LYS:HG2	2.01	0.42
1:G:3870:ASN:O	1:G:3873:LYS:HG2	2.19	0.42
1:G:4014:LYS:HG2	1:G:4135:PRO:HB3	2.02	0.42
1:G:4130:ASN:HA	1:G:4133:GLN:HG3	2.02	0.42
1:J:228:ASP:O	1:J:250:GLY:N	2.51	0.42
1:J:247:TYR:CB	1:J:374:LYS:HB2	2.47	0.42
1:J:883:ALA:HA	1:J:886:ARG:HH21	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2770:LYS:HD3	1:J:2786:LYS:HE3	2.01	0.42
1:J:2888:ARG:O	1:J:2892:GLN:HG2	2.19	0.42
1:J:2957:PHE:HE1	1:J:2961:GLN:HE21	1.67	0.42
1:J:3181:THR:O	1:J:3185:LYS:HG2	2.18	0.42
1:J:3206:LEU:HD12	1:J:3280:TYR:CD2	2.55	0.42
1:J:3233:PRO:HB2	1:J:3238:GLU:OE2	2.19	0.42
1:J:3944:GLU:O	1:J:3948:LYS:HG3	2.20	0.42
1:J:4661:TYR:OH	1:J:4788:SER:HB2	2.19	0.42
2:I:7:ILE:HG21	2:I:71:ARG:HE	1.84	0.42
3:K:35:GLY:HA2	3:K:50:THR:HG23	2.01	0.42
1:B:2691:TYR:HA	1:B:2696:TYR:CE1	2.54	0.42
1:B:2996:LYS:O	1:B:3000:LYS:HG2	2.20	0.42
1:B:4960:ILE:HB	1:B:4983:HIS:HB3	2.02	0.42
1:E:548:VAL:HA	1:E:551:LEU:HG	2.00	0.42
1:E:1691:GLN:O	1:E:1695:LEU:HG	2.20	0.42
1:E:2598:ALA:O	1:E:2602:VAL:HG23	2.20	0.42
1:E:4021:LYS:HG3	1:E:4142:ASN:ND2	2.35	0.42
1:E:4045:VAL:O	1:E:4049:VAL:HG13	2.19	0.42
1:E:4088:ILE:HD12	1:E:4093:PHE:HD2	1.84	0.42
1:G:1105:ALA:HB2	1:G:1191:VAL:HG11	2.02	0.42
1:G:1782:PHE:O	2:H:82:TYR:OH	2.31	0.42
1:G:2598:ALA:O	1:G:2602:VAL:HG23	2.20	0.42
1:G:2760:GLU:HG2	1:G:2802:LYS:HE2	2.02	0.42
1:G:2770:LYS:HD3	1:G:2786:LYS:HE3	2.02	0.42
1:G:3445:TRP:HD1	1:G:3451:PHE:CD2	2.38	0.42
1:G:3842:LEU:HA	1:G:3874:VAL:O	2.19	0.42
1:J:277:GLY:HA2	1:J:315:CYS:HB2	2.02	0.42
1:J:1599:MET:SD	1:J:1599:MET:N	2.92	0.42
1:J:2001:PRO:O	1:J:2005:GLN:HG3	2.20	0.42
1:J:3073:ARG:HA	1:J:3146:HIS:CE1	2.54	0.42
1:J:4091:LYS:HD2	1:J:4092:ASP:N	2.35	0.42
1:B:151:HIS:NE2	1:B:172:VAL:HB	2.35	0.42
1:B:1518:CYS:HB3	1:B:1527:MET:HE1	2.00	0.42
1:B:2001:PRO:O	1:B:2005:GLN:HG3	2.20	0.42
1:B:3206:LEU:HD12	1:B:3280:TYR:CD2	2.55	0.42
1:B:3354:LEU:HB2	1:B:3415:TYR:CE2	2.55	0.42
1:E:1518:CYS:HB3	1:E:1527:MET:HE1	2.00	0.42
1:E:1569:GLN:HB2	1:E:1572:ILE:HD12	2.00	0.42
1:E:2957:PHE:HE1	1:E:2961:GLN:HE21	1.67	0.42
1:E:4661:TYR:OH	1:E:4788:SER:HB2	2.19	0.42
1:G:904:HIS:HD2	1:G:907:LEU:H	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2515:GLN:O	1:G:2519:LEU:HG	2.19	0.42
1:G:3089:LYS:O	1:G:3092:LEU:HG	2.20	0.42
1:G:3874:VAL:HG23	1:G:3875:MET:N	2.34	0.42
1:G:5013:MET:HE3	1:G:5018:CYS:C	2.40	0.42
1:J:1270:LEU:O	1:J:1563:GLN:HA	2.18	0.42
1:J:2469:ILE:HD12	1:J:2472:LEU:HD12	2.01	0.42
1:J:2598:ALA:O	1:J:2602:VAL:HG23	2.20	0.42
1:J:2767:ALA:HB2	1:J:2791:LEU:HD21	2.02	0.42
1:J:3337:ARG:HG2	1:J:3341:PHE:CD1	2.54	0.42
2:A:15:PHE:HE1	2:A:67:SER:HB3	1.85	0.42
1:B:1105:ALA:O	1:B:1189:LEU:N	2.46	0.42
1:B:2122:SER:O	1:B:2126:ARG:HG3	2.20	0.42
1:B:3020:THR:HA	1:B:3036:LYS:HE2	2.02	0.42
1:B:3445:TRP:HD1	1:B:3451:PHE:CD2	2.38	0.42
1:B:4021:LYS:HG3	1:B:4142:ASN:ND2	2.35	0.42
1:B:4569:LEU:O	1:B:4573:ILE:HG13	2.20	0.42
1:B:4779:LYS:O	1:B:4783:ILE:HG12	2.20	0.42
1:E:228:ASP:O	1:E:250:GLY:N	2.51	0.42
1:E:1857:GLU:O	1:E:1861:GLN:HG3	2.18	0.42
1:E:2515:GLN:O	1:E:2519:LEU:HG	2.19	0.42
1:E:2874:MET:CE	1:E:2937:VAL:HG11	2.50	0.42
1:E:4118:ASP:HB2	1:E:4123:ILE:CD1	2.50	0.42
1:E:4569:LEU:O	1:E:4573:ILE:HG13	2.20	0.42
1:E:4939:ALA:O	1:E:4942:GLU:HG3	2.20	0.42
1:G:639:ASN:ND2	1:G:676:THR:OG1	2.53	0.42
1:G:977:LEU:HD12	1:G:1044:ARG:HD3	2.02	0.42
1:G:1154:ASP:OD1	1:G:1159:THR:OG1	2.30	0.42
1:G:2863:SER:HB2	1:G:2924:GLN:HB2	2.02	0.42
1:G:2888:ARG:O	1:G:2892:GLN:HG2	2.19	0.42
1:G:2996:LYS:O	1:G:3000:LYS:HG2	2.20	0.42
1:G:3042:LEU:HA	1:G:3045:LYS:HD2	2.00	0.42
1:G:3050:VAL:HG22	1:G:3131:TYR:CE1	2.55	0.42
1:G:3181:THR:O	1:G:3185:LYS:HG2	2.18	0.42
1:G:3359:ILE:HB	1:G:3360:PRO:HD3	2.02	0.42
1:G:3458:PHE:CZ	1:G:3464:ILE:HG13	2.55	0.42
1:G:3514:LEU:HD21	1:G:3606:LEU:HD22	2.00	0.42
1:G:3841:VAL:HG21	1:G:3926:LEU:HA	2.02	0.42
1:G:4097:MET:CE	1:G:4103:PHE:HB2	2.50	0.42
1:G:4541:TRP:O	1:G:4544:LEU:HG	2.19	0.42
1:G:4779:LYS:O	1:G:4783:ILE:HG12	2.20	0.42
1:J:1025:ARG:HG3	1:J:1026:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1105:ALA:HB2	1:J:1191:VAL:HG11	2.02	0.42
1:J:1450:VAL:HG22	1:J:1552:VAL:HG12	2.01	0.42
1:J:1698:LEU:HG	1:J:1712:TYR:CZ	2.54	0.42
1:J:1784:ALA:HA	2:I:55:VAL:HA	2.01	0.42
1:J:2863:SER:HB2	1:J:2924:GLN:HB2	2.02	0.42
1:J:3354:LEU:HB2	1:J:3415:TYR:CE2	2.55	0.42
1:J:3514:LEU:HD11	1:J:3606:LEU:HB2	2.00	0.42
1:J:3534:MET:O	1:J:3538:THR:HG23	2.20	0.42
1:J:3847:PHE:HD1	1:J:3850:GLN:HE21	1.67	0.42
1:J:4128:PHE:HA	1:J:4131:ARG:NE	2.33	0.42
1:J:4776:GLN:HA	1:J:4779:LYS:HG2	2.02	0.42
2:D:76:CYS:HB3	2:D:80:VAL:HG23	2.02	0.42
1:B:64:ILE:HG23	1:B:402:ARG:HH21	1.84	0.42
1:B:659:TYR:HB2	1:B:1017:ARG:NH2	2.32	0.42
1:B:894:GLY:H	1:B:904:HIS:H	1.68	0.42
1:B:913:LEU:HD13	3:C:104:TYR:OH	2.20	0.42
1:B:1101:ARG:HB3	1:B:1123:VAL:HG21	2.01	0.42
1:B:1939:MET:HA	1:B:1942:LEU:HD12	2.02	0.42
1:B:2640:PRO:O	1:B:2644:LEU:HD23	2.20	0.42
1:B:2909:ASP:C	1:B:2911:LEU:H	2.22	0.42
1:B:3008:GLN:O	1:B:3012:ASN:ND2	2.53	0.42
1:E:384:MET:SD	1:E:384:MET:N	2.85	0.42
1:E:954:LYS:HD2	1:E:954:LYS:HA	1.77	0.42
1:E:996:TRP:O	1:E:1000:ARG:HG2	2.18	0.42
1:E:1615:VAL:HG22	1:E:1630:CYS:SG	2.59	0.42
1:E:2210:VAL:O	1:E:2214:VAL:HG12	2.19	0.42
1:E:2863:SER:HB2	1:E:2924:GLN:HB2	2.02	0.42
1:E:3008:GLN:O	1:E:3012:ASN:ND2	2.53	0.42
1:E:3550:ARG:NH2	1:E:3594:ARG:HH22	2.18	0.42
1:G:1663:HIS:O	1:G:1667:LEU:HG	2.20	0.42
1:G:2874:MET:CE	1:G:2937:VAL:HG11	2.50	0.42
1:G:3530:GLN:O	1:G:3534:MET:HG2	2.20	0.42
1:G:4091:LYS:HD2	1:G:4092:ASP:N	2.35	0.42
1:G:4939:ALA:O	1:G:4942:GLU:HG3	2.20	0.42
1:J:2212:VAL:HG22	1:J:2256:TYR:CZ	2.55	0.42
1:J:2760:GLU:HG2	1:J:2802:LYS:HE2	2.02	0.42
1:J:2874:MET:CE	1:J:2937:VAL:HG11	2.50	0.42
1:J:3842:LEU:HA	1:J:3874:VAL:O	2.19	0.42
1:J:4014:LYS:HG2	1:J:4135:PRO:HB3	2.02	0.42
1:J:4859:PHE:CE1	1:J:4909:TYR:HB3	2.55	0.42
3:M:52:THR:OG1	3:M:56:SER:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:639:ASN:ND2	1:B:676:THR:OG1	2.53	0.42
1:B:722:TRP:CZ2	1:B:727:ALA:HB2	2.55	0.42
1:B:800:PHE:CD2	1:B:804:PRO:HG3	2.55	0.42
1:B:977:LEU:HD12	1:B:1044:ARG:HD3	2.02	0.42
1:B:1007:TYR:CD1	1:B:1022:VAL:HG13	2.54	0.42
1:B:1025:ARG:HG3	1:B:1026:LEU:HD12	2.02	0.42
1:B:1839:VAL:O	1:B:1843:LYS:HG3	2.19	0.42
1:B:3327:LEU:HD11	1:B:3365:LEU:HD11	2.02	0.42
1:B:4091:LYS:HD2	1:B:4092:ASP:N	2.35	0.42
1:E:639:ASN:ND2	1:E:676:THR:OG1	2.53	0.42
1:E:2122:SER:O	1:E:2126:ARG:HG3	2.20	0.42
1:E:2178:MET:O	1:E:2182:ILE:HG12	2.20	0.42
1:E:3847:PHE:HD1	1:E:3850:GLN:HE21	1.67	0.42
1:E:4014:LYS:HG2	1:E:4135:PRO:HB3	2.02	0.42
1:E:4097:MET:CE	1:E:4103:PHE:HB2	2.50	0.42
1:G:1101:ARG:HG2	1:G:1125:ASN:HB2	2.02	0.42
1:G:1691:GLN:NE2	1:G:1803:PRO:HD2	2.33	0.42
1:G:2961:GLN:HA	1:G:2964:LEU:HD12	2.01	0.42
1:G:3530:GLN:NE2	1:G:3531:ASP:OD1	2.53	0.42
1:G:4021:LYS:HG3	1:G:4142:ASN:ND2	2.34	0.42
1:G:4661:TYR:OH	1:G:4788:SER:HB2	2.19	0.42
1:G:4696:ASP:O	1:G:4700:GLN:HG2	2.20	0.42
1:J:800:PHE:CD2	1:J:804:PRO:HG3	2.55	0.42
1:J:2886:TRP:HH2	1:J:2902:HIS:CE1	2.38	0.42
1:J:3007:ASN:HA	1:J:3070:ILE:HD11	2.02	0.42
1:J:3051:ARG:HD2	1:J:3131:TYR:CE2	2.54	0.42
1:J:3089:LYS:O	1:J:3092:LEU:HG	2.20	0.42
1:J:3445:TRP:HD1	1:J:3451:PHE:CD2	2.38	0.42
1:J:3886:ARG:HD2	1:J:3889:GLN:HE21	1.84	0.42
1:J:3981:ALA:O	1:J:3986:TRP:NE1	2.49	0.42
2:I:76:CYS:HB3	2:I:80:VAL:HG23	2.02	0.42
3:C:34:MET:HE1	3:C:95:CYS:HB2	2.01	0.42
1:B:887:ILE:HD13	1:B:959:TYR:HB3	2.01	0.41
1:B:1013:ILE:H	1:B:1013:ILE:HD12	1.85	0.41
1:B:1663:HIS:O	1:B:1667:LEU:HG	2.20	0.41
1:B:2579:VAL:O	1:B:2582:MET:HG2	2.20	0.41
1:B:3157:ILE:HA	1:B:3161:VAL:HB	2.02	0.41
1:B:3550:ARG:NH2	1:B:3594:ARG:HH22	2.18	0.41
1:B:4998:LYS:HB2	1:B:4998:LYS:HE3	1.83	0.41
1:E:257:ARG:O	1:E:284:HIS:NE2	2.33	0.41
1:E:894:GLY:HA3	1:E:903:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1105:ALA:HB2	1:E:1191:VAL:HG11	2.02	0.41
1:E:1939:MET:HA	1:E:1942:LEU:HD12	2.02	0.41
1:E:2648:TYR:CE2	1:E:2706:ILE:HG12	2.55	0.41
1:E:2996:LYS:O	1:E:3000:LYS:HG2	2.20	0.41
1:E:3050:VAL:HG22	1:E:3131:TYR:CE1	2.55	0.41
1:E:3135:ALA:O	1:E:3139:VAL:HG23	2.20	0.41
1:E:3157:ILE:HA	1:E:3161:VAL:HB	2.02	0.41
1:E:3206:LEU:HD12	1:E:3280:TYR:CD2	2.55	0.41
1:E:3354:LEU:HB2	1:E:3415:TYR:CE2	2.55	0.41
1:E:3530:GLN:NE2	1:E:3531:ASP:OD1	2.52	0.41
1:E:3841:VAL:HG21	1:E:3926:LEU:HA	2.02	0.41
1:E:3944:GLU:O	1:E:3948:LYS:HG3	2.20	0.41
1:E:3978:GLN:O	1:E:3982:HIS:ND1	2.53	0.41
1:G:883:ALA:HA	1:G:886:ARG:HH21	1.83	0.41
1:G:2509:VAL:HG23	1:G:2510:TYR:N	2.36	0.41
1:G:2640:PRO:O	1:G:2644:LEU:HD23	2.20	0.41
1:G:2886:TRP:HH2	1:G:2902:HIS:CE1	2.38	0.41
1:G:2978:GLU:OE1	1:G:3053:ARG:NH2	2.53	0.41
1:G:3327:LEU:HD11	1:G:3365:LEU:HD11	2.02	0.41
1:G:3999:MET:HG3	1:G:4003:LEU:HG	2.01	0.41
1:J:659:TYR:HB2	1:J:1017:ARG:NH2	2.32	0.41
1:J:722:TRP:CZ2	1:J:727:ALA:HB2	2.55	0.41
1:J:783:PHE:HB2	1:J:787:VAL:HG21	2.02	0.41
1:J:996:TRP:CE2	3:K:113:GLU:HB3	2.55	0.41
1:J:2648:TYR:CE2	1:J:2706:ILE:HG12	2.55	0.41
1:J:3135:ALA:O	1:J:3139:VAL:HG23	2.20	0.41
1:J:3359:ILE:HB	1:J:3360:PRO:HD3	2.02	0.41
1:J:3514:LEU:HD21	1:J:3606:LEU:HD22	2.01	0.41
1:J:3550:ARG:NH2	1:J:3594:ARG:HH22	2.18	0.41
1:J:4130:ASN:HA	1:J:4133:GLN:HG3	2.02	0.41
1:J:4696:ASP:O	1:J:4700:GLN:HG2	2.20	0.41
1:J:4779:LYS:O	1:J:4783:ILE:HG12	2.20	0.41
3:C:35:GLY:HA2	3:C:50:THR:HG23	2.02	0.41
3:K:5:GLN:O	3:K:22:CYS:HA	2.20	0.41
1:B:874:LEU:HD21	1:B:1051:TYR:OH	2.20	0.41
1:B:893:TYR:H	1:B:962:SER:HB2	1.85	0.41
1:B:1105:ALA:HB2	1:B:1191:VAL:HG11	2.02	0.41
1:B:2716:ASP:OD1	1:B:2716:ASP:N	2.52	0.41
1:B:3007:ASN:HA	1:B:3070:ILE:HD11	2.02	0.41
1:B:3978:GLN:O	1:B:3982:HIS:ND1	2.53	0.41
1:B:4130:ASN:HA	1:B:4133:GLN:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4661:TYR:OH	1:B:4788:SER:HB2	2.19	0.41
1:B:4822:THR:O	1:B:4825:THR:OG1	2.22	0.41
1:E:1450:VAL:HG22	1:E:1552:VAL:HG12	2.02	0.41
1:E:2208:MET:O	1:E:2212:VAL:HG23	2.20	0.41
1:E:3020:THR:HA	1:E:3036:LYS:HE2	2.02	0.41
1:E:3530:GLN:O	1:E:3534:MET:HG2	2.20	0.41
1:E:3534:MET:O	1:E:3538:THR:HG23	2.20	0.41
1:E:3683:GLN:H	1:E:3683:GLN:CD	2.22	0.41
1:E:4696:ASP:O	1:E:4700:GLN:HG2	2.20	0.41
1:E:4960:ILE:HB	1:E:4983:HIS:HB3	2.02	0.41
1:E:4991:PHE:HE2	1:E:5010:VAL:HG11	1.85	0.41
1:G:800:PHE:CD2	1:G:804:PRO:HG3	2.55	0.41
1:G:2725:LYS:NZ	1:G:2736:ASP:OD2	2.41	0.41
1:G:2792:ARG:CZ	1:G:2798:SER:H	2.33	0.41
1:G:3054:VAL:HG21	1:G:3131:TYR:HB2	2.02	0.41
1:G:3218:VAL:O	1:G:3222:LYS:HG2	2.20	0.41
1:G:3398:PHE:HA	1:G:3401:LEU:HG	2.02	0.41
1:J:2354:VAL:HG11	1:J:2453:ILE:HD12	2.03	0.41
1:J:3050:VAL:HG22	1:J:3131:TYR:CE1	2.55	0.41
1:J:3530:GLN:O	1:J:3534:MET:HG2	2.20	0.41
1:J:3841:VAL:HG21	1:J:3926:LEU:HA	2.02	0.41
1:J:4021:LYS:HG3	1:J:4142:ASN:ND2	2.35	0.41
1:J:4097:MET:CE	1:J:4103:PHE:HB2	2.50	0.41
1:J:4822:THR:O	1:J:4825:THR:OG1	2.22	0.41
3:F:5:GLN:O	3:F:22:CYS:HA	2.20	0.41
1:B:783:PHE:HB2	1:B:787:VAL:HG21	2.02	0.41
1:B:2333:ASP:HA	1:B:2336:ARG:HG2	2.02	0.41
1:B:2673:HIS:CD2	1:B:2716:ASP:HB2	2.56	0.41
1:B:2886:TRP:HH2	1:B:2902:HIS:CE1	2.38	0.41
1:B:4118:ASP:HB2	1:B:4123:ILE:CD1	2.50	0.41
1:E:634:GLN:HG3	2:D:34:LYS:NZ	2.35	0.41
1:E:893:TYR:H	1:E:962:SER:HB2	1.85	0.41
1:E:1007:TYR:CD1	1:E:1022:VAL:HG13	2.54	0.41
1:E:2579:VAL:O	1:E:2582:MET:HG2	2.20	0.41
1:E:3359:ILE:HB	1:E:3360:PRO:HD3	2.02	0.41
1:E:4776:GLN:HA	1:E:4779:LYS:HG2	2.02	0.41
1:G:853:PRO:HB2	1:G:994:ASN:OD1	2.21	0.41
1:G:883:ALA:O	1:G:887:ILE:HG13	2.21	0.41
1:G:1658:ASP:N	1:G:1658:ASP:OD1	2.51	0.41
1:G:1691:GLN:O	1:G:1695:LEU:HG	2.20	0.41
1:G:3354:LEU:HB2	1:G:3415:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:247:TYR:CE2	1:J:359:TYR:HA	2.45	0.41
1:J:783:PHE:HZ	1:J:1615:VAL:HG11	1.84	0.41
1:J:874:LEU:HD21	1:J:1051:TYR:OH	2.21	0.41
1:J:926:GLY:O	1:J:930:LYS:HG3	2.19	0.41
1:J:954:LYS:HE3	1:J:955:LEU:O	2.21	0.41
1:J:1076:ARG:CZ	1:J:1079:LYS:HE2	2.50	0.41
1:J:1663:HIS:O	1:J:1667:LEU:HG	2.20	0.41
1:J:2178:MET:O	1:J:2182:ILE:HG12	2.20	0.41
1:J:2268:GLN:HE21	1:J:2268:GLN:HB3	1.73	0.41
1:J:2333:ASP:HA	1:J:2336:ARG:HG2	2.02	0.41
1:J:3008:GLN:O	1:J:3012:ASN:ND2	2.53	0.41
1:J:3945:GLU:O	1:J:3949:ARG:HG3	2.20	0.41
1:J:4939:ALA:O	1:J:4942:GLU:HG3	2.20	0.41
1:B:251:ALA:C	1:B:255:HIS:HD1	2.19	0.41
1:B:277:GLY:HA2	1:B:315:CYS:HB2	2.02	0.41
1:B:894:GLY:HA3	1:B:903:LEU:HD22	2.02	0.41
1:B:954:LYS:HE3	1:B:955:LEU:O	2.21	0.41
1:B:1436:SER:OG	1:B:1565:GLU:HB2	2.21	0.41
1:B:2178:MET:O	1:B:2182:ILE:HG12	2.20	0.41
1:B:2591:ARG:O	1:B:2591:ARG:NE	2.44	0.41
1:B:2605:ASP:HA	1:B:2608:MET:HG2	2.03	0.41
1:B:2770:LYS:HB3	1:B:2787:THR:HG22	2.02	0.41
1:B:2874:MET:CE	1:B:2937:VAL:HG11	2.50	0.41
1:B:2978:GLU:OE1	1:B:3053:ARG:NH2	2.53	0.41
1:B:4097:MET:CE	1:B:4103:PHE:HB2	2.50	0.41
1:E:863:LEU:HD11	1:E:930:LYS:HG3	2.02	0.41
1:E:954:LYS:HE3	1:E:955:LEU:O	2.21	0.41
1:E:996:TRP:CE2	3:F:113:GLU:HB3	2.56	0.41
1:E:1013:ILE:HD12	1:E:1013:ILE:H	1.85	0.41
1:E:1076:ARG:CZ	1:E:1079:LYS:HE2	2.50	0.41
1:E:2212:VAL:HG22	1:E:2256:TYR:CZ	2.55	0.41
1:E:2333:ASP:HA	1:E:2336:ARG:HG2	2.02	0.41
1:E:2354:VAL:HG11	1:E:2453:ILE:HD12	2.03	0.41
1:E:2886:TRP:HH2	1:E:2902:HIS:CE1	2.38	0.41
1:E:3100:SER:OG	1:E:3164:SER:OG	2.38	0.41
1:E:3384:LYS:O	1:E:3388:GLU:HG2	2.21	0.41
1:E:3874:VAL:HG23	1:E:3875:MET:N	2.34	0.41
1:E:3945:GLU:O	1:E:3949:ARG:HG3	2.20	0.41
1:G:893:TYR:H	1:G:962:SER:HB2	1.85	0.41
1:G:1100:MET:HB2	1:G:1143:TRP:CH2	2.55	0.41
1:G:2204:HIS:HA	1:G:2207:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2627:VAL:HG13	1:G:2678:LEU:HD13	2.03	0.41
1:G:3760:LYS:HA	1:G:3760:LYS:HD3	1.86	0.41
1:G:3834:ALA:O	1:G:3838:THR:HG23	2.21	0.41
1:G:3978:GLN:O	1:G:3982:HIS:ND1	2.53	0.41
1:G:4642:ALA:O	1:G:4646:LEU:HD23	2.21	0.41
1:J:255:HIS:HD2	1:J:480:GLU:CG	2.34	0.41
1:J:2579:VAL:O	1:J:2582:MET:HG2	2.20	0.41
1:J:2640:PRO:O	1:J:2644:LEU:HD23	2.20	0.41
1:J:3054:VAL:HG21	1:J:3131:TYR:HB2	2.02	0.41
1:J:3218:VAL:O	1:J:3222:LYS:HG2	2.20	0.41
1:J:3834:ALA:O	1:J:3838:THR:HG23	2.21	0.41
1:J:4569:LEU:O	1:J:4573:ILE:HG13	2.20	0.41
2:D:61:GLU:O	2:D:65:GLN:HG3	2.21	0.41
1:B:2204:HIS:HA	1:B:2207:VAL:HG12	2.03	0.41
1:B:2598:ALA:O	1:B:2602:VAL:HG23	2.20	0.41
1:B:2760:GLU:HG2	1:B:2802:LYS:HE2	2.02	0.41
1:B:3054:VAL:HG21	1:B:3131:TYR:HB2	2.02	0.41
1:B:3100:SER:HG	1:B:3164:SER:HG	1.68	0.41
1:B:3359:ILE:HB	1:B:3360:PRO:HD3	2.02	0.41
1:B:3398:PHE:HA	1:B:3401:LEU:HG	2.02	0.41
1:B:4541:TRP:O	1:B:4544:LEU:HG	2.19	0.41
1:B:4642:ALA:O	1:B:4646:LEU:HD23	2.21	0.41
1:B:4927:ILE:HD12	1:E:4936:ILE:HD13	2.03	0.41
1:E:64:ILE:HG23	1:E:402:ARG:HH21	1.84	0.41
1:E:828:GLU:HG3	1:E:840:VAL:HG21	2.03	0.41
1:E:853:PRO:HB2	1:E:994:ASN:OD1	2.21	0.41
1:E:1649:ASP:OD1	1:E:1650:ILE:N	2.54	0.41
1:E:1784:ALA:HA	2:D:55:VAL:HA	2.02	0.41
1:E:3006:ILE:HD11	1:E:3010:PHE:CZ	2.55	0.41
1:E:3445:TRP:HD1	1:E:3451:PHE:CD2	2.38	0.41
1:E:4091:LYS:HD2	1:E:4092:ASP:N	2.35	0.41
1:E:4218:ILE:HD12	1:E:4954:MET:SD	2.60	0.41
1:E:4822:THR:O	1:E:4825:THR:OG1	2.22	0.41
1:G:783:PHE:HB2	1:G:787:VAL:HG21	2.02	0.41
1:G:874:LEU:HD21	1:G:1051:TYR:OH	2.21	0.41
1:G:954:LYS:HE3	1:G:955:LEU:O	2.21	0.41
1:G:1076:ARG:CZ	1:G:1079:LYS:HE2	2.50	0.41
1:G:1613:LEU:HD12	1:G:1613:LEU:H	1.86	0.41
1:G:1780:PRO:HG2	2:H:42:ARG:HD3	2.02	0.41
1:G:2122:SER:O	1:G:2126:ARG:HG3	2.20	0.41
1:G:2333:ASP:HA	1:G:2336:ARG:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2605:ASP:HA	1:G:2608:MET:HG2	2.03	0.41
1:G:2645:THR:HB	1:G:2702:CYS:HA	2.02	0.41
1:G:2648:TYR:CE2	1:G:2706:ILE:HG12	2.55	0.41
1:G:2673:HIS:CD2	1:G:2716:ASP:HB2	2.56	0.41
1:G:3206:LEU:HD12	1:G:3280:TYR:CD2	2.55	0.41
1:G:3534:MET:O	1:G:3538:THR:HG23	2.20	0.41
1:G:4039:MET:SD	1:G:4040:ILE:HG13	2.61	0.41
1:G:4088:ILE:O	1:G:4088:ILE:HG13	2.19	0.41
1:G:4118:ASP:HB2	1:G:4123:ILE:CD1	2.50	0.41
1:G:4243:PHE:HE2	1:G:4668:LEU:HA	1.86	0.41
1:G:4776:GLN:HA	1:G:4779:LYS:HG2	2.02	0.41
1:G:4796:MET:O	1:G:4800:LEU:HG	2.21	0.41
1:J:1100:MET:HB2	1:J:1143:TRP:CH2	2.55	0.41
1:J:2760:GLU:HA	1:J:2802:LYS:HZ1	1.85	0.41
1:J:2792:ARG:CZ	1:J:2798:SER:H	2.33	0.41
1:J:3006:ILE:HD11	1:J:3010:PHE:CZ	2.55	0.41
1:J:3978:GLN:O	1:J:3982:HIS:ND1	2.53	0.41
3:M:5:GLN:O	3:M:22:CYS:HA	2.20	0.41
1:B:1649:ASP:OD1	1:B:1650:ILE:N	2.54	0.41
1:B:1973:GLN:OE1	1:B:3641:LEU:HB3	2.21	0.41
1:B:3352:GLU:OE1	1:B:3352:GLU:N	2.48	0.41
1:B:3534:MET:O	1:B:3538:THR:HG23	2.20	0.41
1:B:4218:ILE:HD12	1:B:4954:MET:SD	2.60	0.41
1:E:883:ALA:O	1:E:887:ILE:HG13	2.21	0.41
1:E:977:LEU:HD12	1:E:1044:ARG:HD3	2.02	0.41
1:E:2365:GLY:O	1:E:2369:ARG:NH2	2.54	0.41
1:E:2770:LYS:HB3	1:E:2787:THR:HG22	2.02	0.41
1:E:3201:MET:HA	1:E:3202:PRO:HD3	1.95	0.41
1:E:3870:ASN:O	1:E:3873:LYS:HG2	2.20	0.41
1:E:4859:PHE:CE1	1:E:4909:TYR:HB3	2.55	0.41
1:G:277:GLY:HA2	1:G:315:CYS:HB2	2.02	0.41
1:G:1784:ALA:O	2:H:82:TYR:OH	2.38	0.41
1:G:1973:GLN:OE1	1:G:3641:LEU:HB3	2.21	0.41
1:G:2134:LEU:O	1:G:2138:LEU:HG	2.19	0.41
1:G:2178:MET:O	1:G:2182:ILE:HG12	2.20	0.41
1:G:2978:GLU:HA	1:G:2981:VAL:HG12	2.03	0.41
1:G:3020:THR:HA	1:G:3036:LYS:HE2	2.02	0.41
1:G:3532:LEU:HA	1:G:3535:LEU:HG	2.03	0.41
1:G:3550:ARG:NH2	1:G:3594:ARG:HH22	2.18	0.41
1:G:3945:GLU:O	1:G:3949:ARG:HG3	2.20	0.41
1:G:3984:ARG:HG2	1:G:3987:ASP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4569:LEU:O	1:G:4573:ILE:HG13	2.20	0.41
1:G:4859:PHE:CE1	1:G:4909:TYR:HB3	2.55	0.41
1:J:345:LEU:HD23	1:J:345:LEU:H	1.85	0.41
1:J:639:ASN:ND2	1:J:676:THR:OG1	2.53	0.41
1:J:883:ALA:O	1:J:887:ILE:HG13	2.21	0.41
1:J:894:GLY:HA3	1:J:903:LEU:HD22	2.02	0.41
1:J:1101:ARG:HG2	1:J:1125:ASN:HB2	2.02	0.41
1:J:1649:ASP:OD1	1:J:1650:ILE:N	2.54	0.41
1:J:1939:MET:HA	1:J:1942:LEU:HD12	2.02	0.41
1:J:2605:ASP:HA	1:J:2608:MET:HG2	2.03	0.41
1:J:2908:TYR:CD1	1:J:2911:LEU:HD11	2.56	0.41
1:J:2978:GLU:OE1	1:J:3053:ARG:NH2	2.53	0.41
1:J:3050:VAL:HG22	1:J:3131:TYR:HE1	1.86	0.41
1:J:3067:CYS:HA	1:J:3070:ILE:HG12	2.03	0.41
1:J:3102:ASP:HA	1:J:3105:LYS:HE2	2.02	0.41
1:J:3187:ARG:NH1	1:J:3268:HIS:HA	2.36	0.41
1:J:4796:MET:O	1:J:4800:LEU:HG	2.21	0.41
1:J:4991:PHE:HE2	1:J:5010:VAL:HG11	1.86	0.41
2:H:15:PHE:HE1	2:H:67:SER:HB3	1.85	0.41
3:C:100:VAL:HG13	3:C:104:TYR:O	2.21	0.41
1:B:853:PRO:HB2	1:B:994:ASN:OD1	2.21	0.41
1:B:1100:MET:HB2	1:B:1143:TRP:CH2	2.55	0.41
1:B:2365:GLY:O	1:B:2369:ARG:NH2	2.54	0.41
1:B:2509:VAL:HG23	1:B:2510:TYR:N	2.36	0.41
1:B:2645:THR:HB	1:B:2702:CYS:HA	2.02	0.41
1:B:3384:LYS:O	1:B:3388:GLU:HG2	2.21	0.41
1:B:3532:LEU:HA	1:B:3535:LEU:HG	2.03	0.41
1:B:3841:VAL:HG21	1:B:3926:LEU:HA	2.02	0.41
1:B:4014:LYS:HG2	1:B:4135:PRO:HB3	2.02	0.41
1:B:4796:MET:O	1:B:4800:LEU:HG	2.21	0.41
1:E:148:TRP:CH2	1:E:180:LEU:HD13	2.56	0.41
1:E:722:TRP:CZ2	1:E:727:ALA:HB2	2.55	0.41
1:E:887:ILE:HD13	1:E:959:TYR:HB3	2.01	0.41
1:E:1071:ARG:O	1:E:1196:PRO:HD3	2.20	0.41
1:E:1154:ASP:N	1:E:1154:ASP:OD1	2.54	0.41
1:E:1666:THR:HG22	1:E:1670:TYR:CE2	2.56	0.41
1:E:2292:GLU:OE1	1:E:2292:GLU:N	2.42	0.41
1:E:2640:PRO:O	1:E:2644:LEU:HD23	2.20	0.41
1:E:2975:ALA:HA	1:E:3053:ARG:NH2	2.36	0.41
1:E:4130:ASN:HA	1:E:4133:GLN:HG3	2.02	0.41
1:E:4879:MET:HG2	1:E:4880:MET:CE	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:148:TRP:CH2	1:G:180:LEU:HD13	2.56	0.41
1:G:208:CYS:O	1:G:273:HIS:ND1	2.54	0.41
1:G:251:ALA:C	1:G:255:HIS:HD1	2.19	0.41
1:G:894:GLY:HA3	1:G:903:LEU:HD22	2.02	0.41
1:G:1260:MET:SD	1:G:1260:MET:N	2.77	0.41
1:G:1666:THR:HG22	1:G:1670:TYR:CE2	2.56	0.41
1:G:2208:MET:O	1:G:2212:VAL:HG23	2.20	0.41
1:G:2354:VAL:HG11	1:G:2453:ILE:HD12	2.03	0.41
1:G:2908:TYR:CD1	1:G:2911:LEU:HD11	2.56	0.41
1:G:3006:ILE:HD11	1:G:3010:PHE:CZ	2.55	0.41
1:G:3349:ALA:HB1	1:G:3353:LEU:HD12	2.03	0.41
1:G:3944:GLU:O	1:G:3948:LYS:HG3	2.20	0.41
1:J:360:ALA:HA	1:J:377:ILE:CD1	2.47	0.41
1:J:625:LEU:CD1	1:J:626:LEU:HD12	2.51	0.41
1:J:788:LYS:CD	1:J:1629:GLN:HB3	2.50	0.41
1:J:1027:LEU:HD13	1:J:1031:THR:HG22	2.03	0.41
1:J:1071:ARG:O	1:J:1196:PRO:HD3	2.20	0.41
1:J:2204:HIS:HB2	1:J:2250:MET:HE1	2.02	0.41
1:J:2627:VAL:HG13	1:J:2678:LEU:HD13	2.03	0.41
1:J:2765:LYS:HD3	1:J:2765:LYS:HA	1.89	0.41
1:J:2975:ALA:HA	1:J:3053:ARG:NH2	2.36	0.41
1:J:2996:LYS:O	1:J:3000:LYS:HG2	2.20	0.41
1:J:3398:PHE:HA	1:J:3401:LEU:HG	2.02	0.41
1:J:4118:ASP:HB2	1:J:4123:ILE:CD1	2.50	0.41
1:J:4541:TRP:O	1:J:4544:LEU:HG	2.19	0.41
1:J:4642:ALA:O	1:J:4646:LEU:HD23	2.21	0.41
2:D:81:ALA:HB1	2:D:97:LEU:HD13	2.03	0.41
1:B:246:TYR:CD2	1:B:373:LYS:HD2	2.56	0.41
1:B:783:PHE:HZ	1:B:1615:VAL:HG11	1.84	0.41
1:B:863:LEU:HD11	1:B:930:LYS:HG3	2.02	0.41
1:B:1025:ARG:H	1:B:1025:ARG:HG2	1.73	0.41
1:B:1076:ARG:CZ	1:B:1079:LYS:HE2	2.51	0.41
1:B:1078:GLU:HB3	1:B:1081:TYR:CE2	2.56	0.41
1:B:1763:PRO:HG3	1:B:2094:LEU:HD22	2.03	0.41
1:B:2760:GLU:HA	1:B:2802:LYS:HZ1	1.85	0.41
1:B:2908:TYR:CD1	1:B:2911:LEU:HD11	2.56	0.41
1:B:3135:ALA:O	1:B:3139:VAL:HG23	2.20	0.41
1:B:3142:THR:HA	1:B:3145:GLN:CD	2.41	0.41
1:B:3196:ARG:HH12	1:B:3341:PHE:HZ	1.69	0.41
1:B:3218:VAL:O	1:B:3222:LYS:HG2	2.20	0.41
1:B:3398:PHE:CD1	1:B:3451:PHE:HD1	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3541:ALA:O	1:B:3543:LYS:HE2	2.21	0.41
1:B:3834:ALA:O	1:B:3838:THR:HG23	2.21	0.41
1:B:4939:ALA:O	1:B:4942:GLU:HG3	2.20	0.41
1:E:151:HIS:NE2	1:E:172:VAL:HB	2.35	0.41
1:E:1613:LEU:H	1:E:1613:LEU:HD12	1.86	0.41
1:E:2908:TYR:CD1	1:E:2911:LEU:HD11	2.56	0.41
1:E:2977:LEU:HD11	1:E:2995:ILE:HD13	2.03	0.41
1:E:4121:GLU:HB2	1:E:4122:MET:H	1.72	0.41
1:E:4243:PHE:HE2	1:E:4668:LEU:HA	1.86	0.41
1:E:4642:ALA:O	1:E:4646:LEU:HD23	2.21	0.41
1:E:4779:LYS:O	1:E:4783:ILE:HG12	2.20	0.41
1:G:255:HIS:HD2	1:G:480:GLU:CG	2.34	0.41
1:G:375:LYS:HE2	1:G:375:LYS:HB2	1.93	0.41
1:G:474:ARG:O	1:G:478:PHE:HD1	2.04	0.41
1:G:1012:ASP:O	1:G:1017:ARG:N	2.52	0.41
1:G:1025:ARG:HG3	1:G:1026:LEU:HD12	2.02	0.41
1:G:1078:GLU:HB3	1:G:1081:TYR:CE2	2.56	0.41
1:G:1676:LEU:HD22	1:G:2167:ILE:HD12	2.03	0.41
1:G:2212:VAL:HG22	1:G:2256:TYR:CZ	2.55	0.41
1:G:4097:MET:SD	1:G:4103:PHE:HD1	2.44	0.41
1:J:853:PRO:HB2	1:J:994:ASN:OD1	2.21	0.41
1:J:893:TYR:H	1:J:962:SER:HB2	1.85	0.41
1:J:1666:THR:HG22	1:J:1670:TYR:CE2	2.56	0.41
1:J:2194:HIS:O	1:J:2198:MET:HG2	2.21	0.41
1:J:2977:LEU:HD11	1:J:2995:ILE:HD13	2.03	0.41
1:J:3343:GLN:HB2	1:J:3344:PRO:HD3	2.03	0.41
1:J:4180:ARG:HD2	1:J:4981:GLU:HG2	2.03	0.41
2:D:15:PHE:HE1	2:D:67:SER:HB3	1.85	0.41
2:H:61:GLU:O	2:H:65:GLN:HG3	2.21	0.41
2:H:76:CYS:HB3	2:H:80:VAL:HG23	2.02	0.41
3:C:5:GLN:HG3	3:C:23:THR:HG1	1.86	0.41
1:B:828:GLU:HG3	1:B:840:VAL:HG21	2.03	0.41
1:B:876:GLU:O	1:B:880:GLU:HG3	2.21	0.41
1:B:1101:ARG:HG2	1:B:1125:ASN:HB2	2.02	0.41
1:B:1154:ASP:N	1:B:1154:ASP:OD1	2.54	0.41
1:B:1260:MET:SD	1:B:1260:MET:N	2.77	0.41
1:B:1646:ARG:NH1	1:B:1648:MET:SD	2.90	0.41
1:B:1666:THR:HG22	1:B:1670:TYR:CE2	2.56	0.41
1:B:1691:GLN:O	1:B:1695:LEU:HG	2.20	0.41
1:B:2380:ILE:HG21	1:B:2469:ILE:HD11	2.03	0.41
1:B:2627:VAL:HG13	1:B:2678:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2648:TYR:CE2	1:B:2706:ILE:HG12	2.55	0.41
1:B:2792:ARG:CZ	1:B:2798:SER:H	2.33	0.41
1:B:2863:SER:HB2	1:B:2924:GLN:HB2	2.02	0.41
1:B:2978:GLU:HA	1:B:2981:VAL:HG12	2.03	0.41
1:B:3089:LYS:O	1:B:3092:LEU:HG	2.20	0.41
1:B:3870:ASN:O	1:B:3873:LYS:HG2	2.20	0.41
1:B:3945:GLU:O	1:B:3949:ARG:HG3	2.20	0.41
1:B:3984:ARG:HG2	1:B:3987:ASP:HB2	2.02	0.41
1:B:4039:MET:SD	1:B:4040:ILE:HG13	2.61	0.41
1:B:4202:ARG:HG3	1:B:4206:GLU:OE2	2.21	0.41
1:B:4696:ASP:O	1:B:4700:GLN:HG2	2.20	0.41
1:B:4859:PHE:CE1	1:B:4909:TYR:HB3	2.55	0.41
1:B:4879:MET:HG2	1:B:4880:MET:CE	2.51	0.41
1:B:4888:TYR:OH	1:G:4917:ASP:OD2	2.29	0.41
1:E:149:THR:N	1:E:172:VAL:O	2.29	0.41
1:E:195:PHE:HE2	1:J:2359:ARG:HA	1.86	0.41
1:E:245:VAL:HG23	1:E:376:ALA:HB3	2.03	0.41
1:E:247:TYR:HD2	1:E:374:LYS:HB2	1.84	0.41
1:E:255:HIS:HD2	1:E:480:GLU:CG	2.34	0.41
1:E:345:LEU:HD23	1:E:345:LEU:H	1.85	0.41
1:E:438:ILE:HG13	1:E:439:GLU:N	2.36	0.41
1:E:1003:GLN:HG3	3:F:1:GLN:HE22	1.86	0.41
1:E:1027:LEU:HD13	1:E:1031:THR:HG22	2.03	0.41
1:E:1663:HIS:O	1:E:1667:LEU:HG	2.20	0.41
1:E:2509:VAL:HG23	1:E:2510:TYR:N	2.35	0.41
1:E:3067:CYS:HA	1:E:3070:ILE:HG12	2.03	0.41
1:E:3191:GLY:HA2	1:E:3194:LEU:HG	2.03	0.41
1:E:3327:LEU:HD11	1:E:3365:LEU:HD11	2.02	0.41
1:E:3391:GLU:HA	1:E:3394:VAL:HG22	2.03	0.41
1:E:3984:ARG:HG2	1:E:3987:ASP:HB2	2.03	0.41
1:E:4039:MET:SD	1:E:4040:ILE:HG13	2.61	0.41
1:E:4941:GLY:HA2	1:E:4944:ARG:HE	1.86	0.41
1:G:438:ILE:HG13	1:G:439:GLU:N	2.36	0.41
1:G:1013:ILE:H	1:G:1013:ILE:HD12	1.85	0.41
1:G:1071:ARG:O	1:G:1196:PRO:HD3	2.20	0.41
1:G:1450:VAL:HG22	1:G:1552:VAL:HG12	2.02	0.41
1:G:1649:ASP:OD1	1:G:1650:ILE:N	2.54	0.41
1:G:1939:MET:HA	1:G:1942:LEU:HD12	2.02	0.41
1:G:2194:HIS:O	1:G:2198:MET:HG2	2.21	0.41
1:G:2251:PHE:CD2	1:G:2286:LEU:HD22	2.56	0.41
1:G:2380:ILE:HG21	1:G:2469:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2579:VAL:O	1:G:2582:MET:HG2	2.20	0.41
1:G:2770:LYS:HB3	1:G:2787:THR:HG22	2.03	0.41
1:G:3008:GLN:O	1:G:3012:ASN:ND2	2.53	0.41
1:G:3157:ILE:HA	1:G:3161:VAL:HB	2.02	0.41
1:G:3343:GLN:HB2	1:G:3344:PRO:HD3	2.03	0.41
1:G:3384:LYS:O	1:G:3388:GLU:HG2	2.21	0.41
1:G:3398:PHE:CD1	1:G:3451:PHE:HD1	2.39	0.41
1:J:64:ILE:HG23	1:J:402:ARG:HH21	1.84	0.41
1:J:438:ILE:HG13	1:J:439:GLU:N	2.36	0.41
1:J:863:LEU:HD11	1:J:930:LYS:HG3	2.02	0.41
1:J:876:GLU:O	1:J:880:GLU:HG3	2.21	0.41
1:J:977:LEU:HD12	1:J:1044:ARG:HD3	2.02	0.41
1:J:1973:GLN:OE1	1:J:3641:LEU:HB3	2.21	0.41
1:J:2208:MET:O	1:J:2212:VAL:HG23	2.20	0.41
1:J:2365:GLY:O	1:J:2369:ARG:NH2	2.54	0.41
1:J:2509:VAL:HG23	1:J:2510:TYR:N	2.35	0.41
1:J:2645:THR:HB	1:J:2702:CYS:HA	2.02	0.41
1:J:2770:LYS:HB3	1:J:2787:THR:HG22	2.02	0.41
1:J:3020:THR:HA	1:J:3036:LYS:HE2	2.02	0.41
1:J:3261:ALA:HB3	1:J:3266:MET:CE	2.51	0.41
1:J:3352:GLU:OE1	1:J:3352:GLU:N	2.48	0.41
1:J:3384:LYS:O	1:J:3388:GLU:HG2	2.21	0.41
1:J:3458:PHE:CZ	1:J:3464:ILE:HG13	2.55	0.41
1:J:3518:LEU:HB3	1:J:3519:PRO:HD3	2.03	0.41
1:J:3532:LEU:HA	1:J:3535:LEU:HG	2.03	0.41
1:J:3874:VAL:HG23	1:J:3875:MET:N	2.34	0.41
1:J:4039:MET:SD	1:J:4040:ILE:HG13	2.61	0.41
1:J:4218:ILE:HD12	1:J:4954:MET:SD	2.60	0.41
1:J:4243:PHE:HE2	1:J:4668:LEU:HA	1.86	0.41
1:J:4998:LYS:HE3	1:J:4998:LYS:HB2	1.83	0.41
2:H:23:VAL:HA	2:H:46:PHE:O	2.21	0.41
3:C:102:ASN:HB2	3:C:104:TYR:CE2	2.56	0.41
3:F:5:GLN:NE2	3:F:23:THR:OG1	2.29	0.41
3:F:5:GLN:HG3	3:F:23:THR:HG1	1.86	0.41
3:K:5:GLN:HG3	3:K:23:THR:HG1	1.86	0.41
3:M:35:GLY:HA2	3:M:50:THR:HG23	2.01	0.41
1:B:625:LEU:CD1	1:B:626:LEU:HD12	2.51	0.41
1:B:790:ARG:HA	1:B:1626:TRP:O	2.21	0.41
1:B:1676:LEU:HD22	1:B:2167:ILE:HD12	2.03	0.41
1:B:2251:PHE:CE2	1:B:2286:LEU:HD22	2.56	0.41
1:B:2354:VAL:HG11	1:B:2453:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2725:LYS:NZ	1:B:2736:ASP:OD2	2.41	0.41
1:B:2871:LEU:O	1:B:2874:MET:HG3	2.21	0.41
1:B:3052:HIS:CD2	1:B:3053:ARG:NH1	2.89	0.41
1:B:3573:MET:O	1:B:3577:ARG:HG2	2.21	0.41
1:B:4958:CYS:HA	5:B:5102:ATP:C8	2.56	0.41
1:E:625:LEU:CD1	1:E:626:LEU:HD12	2.51	0.41
1:E:1100:MET:HB2	1:E:1143:TRP:CH2	2.55	0.41
1:E:1101:ARG:HG2	1:E:1125:ASN:HB2	2.02	0.41
1:E:2251:PHE:CD2	1:E:2286:LEU:HD22	2.56	0.41
1:E:2605:ASP:HA	1:E:2608:MET:HG2	2.03	0.41
1:E:2760:GLU:HG2	1:E:2802:LYS:HE2	2.02	0.41
1:E:2792:ARG:CZ	1:E:2798:SER:H	2.33	0.41
1:E:2871:LEU:O	1:E:2874:MET:HG3	2.21	0.41
1:E:3007:ASN:HA	1:E:3070:ILE:HD11	2.02	0.41
1:E:3089:LYS:O	1:E:3092:LEU:HG	2.20	0.41
1:E:3218:VAL:O	1:E:3222:LYS:HG2	2.20	0.41
1:E:3349:ALA:HB1	1:E:3353:LEU:HD12	2.03	0.41
1:E:3398:PHE:CD1	1:E:3451:PHE:HD1	2.39	0.41
1:E:3518:LEU:HB3	1:E:3519:PRO:HD3	2.03	0.41
1:G:876:GLU:O	1:G:880:GLU:HG3	2.21	0.41
1:G:3246:LEU:O	1:G:3250:MET:HG3	2.21	0.41
1:G:3573:MET:O	1:G:3577:ARG:HG2	2.21	0.41
1:J:363:ASP:HB3	1:J:366:ALA:HB3	2.03	0.41
1:J:651:GLY:O	1:J:658:GLN:HG3	2.21	0.41
1:J:753:PRO:HB3	1:J:773:LEU:HD11	2.03	0.41
1:J:1013:ILE:H	1:J:1013:ILE:HD12	1.85	0.41
1:J:1240:LYS:HE2	1:J:1240:LYS:HB3	1.92	0.41
1:J:1436:SER:OG	1:J:1565:GLU:HB2	2.21	0.41
1:J:1573:MET:HE1	1:J:1587:PRO:HA	2.02	0.41
1:J:2204:HIS:HA	1:J:2207:VAL:HG12	2.03	0.41
1:J:2827:ARG:NE	1:J:2935:TYR:OH	2.28	0.41
1:J:3349:ALA:HB1	1:J:3353:LEU:HD12	2.03	0.41
2:A:81:ALA:HB1	2:A:97:LEU:HD13	2.03	0.41
2:D:30:LEU:HD22	2:D:36:PHE:CD1	2.56	0.41
3:C:5:GLN:O	3:C:22:CYS:HA	2.20	0.41
3:K:34:MET:HE3	3:K:95:CYS:HB2	2.01	0.41
1:B:345:LEU:HD23	1:B:345:LEU:H	1.85	0.40
1:B:438:ILE:HG13	1:B:439:GLU:N	2.36	0.40
1:B:2212:VAL:HG22	1:B:2256:TYR:CZ	2.55	0.40
1:B:2251:PHE:CD2	1:B:2286:LEU:HD22	2.56	0.40
1:B:2967:MET:O	1:B:2970:SER:OG	2.27	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3102:ASP:HA	1:B:3105:LYS:HE2	2.03	0.40
1:B:3343:GLN:HB2	1:B:3344:PRO:HD3	2.03	0.40
1:B:3414:ARG:HE	1:B:3475:LYS:C	2.25	0.40
1:B:4097:MET:SD	1:B:4103:PHE:HD1	2.44	0.40
1:E:790:ARG:HA	1:E:1626:TRP:O	2.21	0.40
1:E:2927:LEU:HA	1:E:2930:LEU:HD12	2.04	0.40
1:E:3196:ARG:HH12	1:E:3341:PHE:HZ	1.69	0.40
1:E:3261:ALA:HB3	1:E:3266:MET:CE	2.51	0.40
1:E:3261:ALA:O	1:E:3325:ASN:ND2	2.54	0.40
1:E:3516:LYS:HD3	1:E:3516:LYS:HA	1.90	0.40
1:E:3573:MET:O	1:E:3577:ARG:HG2	2.21	0.40
1:E:4796:MET:O	1:E:4800:LEU:HG	2.21	0.40
1:E:4822:THR:O	1:E:4826:ILE:HG13	2.22	0.40
1:G:625:LEU:CD1	1:G:626:LEU:HD12	2.51	0.40
1:G:1478:ASP:OD1	1:G:1482:ASN:N	2.53	0.40
1:G:1646:ARG:NH1	1:G:1648:MET:SD	2.90	0.40
1:G:1771:LEU:HD11	1:G:2144:ILE:HD11	2.03	0.40
1:G:2365:GLY:O	1:G:2369:ARG:NH2	2.54	0.40
1:G:2874:MET:HE2	1:G:2937:VAL:HG11	2.03	0.40
1:G:2875:ALA:HB2	1:G:2927:LEU:HD22	2.03	0.40
1:G:2975:ALA:HA	1:G:3053:ARG:NH2	2.36	0.40
1:G:3052:HIS:CD2	1:G:3053:ARG:NH1	2.89	0.40
1:G:3816:MET:O	1:G:3820:LEU:HG	2.22	0.40
1:J:803:LEU:HD23	1:J:803:LEU:HA	1.91	0.40
1:J:1078:GLU:HB3	1:J:1081:TYR:CE2	2.56	0.40
1:J:1613:LEU:H	1:J:1613:LEU:HD12	1.86	0.40
1:J:2380:ILE:HG21	1:J:2469:ILE:HD11	2.03	0.40
1:J:3196:ARG:HH12	1:J:3341:PHE:HZ	1.69	0.40
1:J:3391:GLU:HA	1:J:3394:VAL:HG22	2.03	0.40
1:J:4879:MET:HG2	1:J:4880:MET:CE	2.51	0.40
2:D:23:VAL:HA	2:D:46:PHE:O	2.21	0.40
2:H:11:ASP:O	2:H:13:ARG:NH1	2.54	0.40
2:I:61:GLU:O	2:I:65:GLN:HG3	2.21	0.40
2:I:66:MET:HG3	2:I:67:SER:H	1.86	0.40
1:B:16:THR:HB	1:B:98:HIS:HA	2.02	0.40
1:B:1087:ARG:HB3	1:B:1223:PHE:HD1	1.83	0.40
1:B:2194:HIS:O	1:B:2198:MET:HG2	2.21	0.40
1:B:2522:LEU:HA	1:B:2526:PHE:HB2	2.03	0.40
1:B:3008:GLN:NE2	1:B:3012:ASN:HD22	2.20	0.40
1:B:3050:VAL:HG22	1:B:3131:TYR:HE1	1.86	0.40
1:B:3437:MET:O	1:B:3441:ILE:HG13	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3530:GLN:O	1:B:3534:MET:HG2	2.20	0.40
1:B:4180:ARG:HD2	1:B:4981:GLU:HG2	2.03	0.40
1:B:4776:GLN:HA	1:B:4779:LYS:HG2	2.02	0.40
1:E:16:THR:HB	1:E:98:HIS:HA	2.02	0.40
1:E:144:GLU:HA	1:E:147:TRP:CD1	2.56	0.40
1:E:277:GLY:HA2	1:E:315:CYS:HB2	2.02	0.40
1:E:783:PHE:HB2	1:E:787:VAL:HG21	2.02	0.40
1:E:894:GLY:H	1:E:904:HIS:H	1.68	0.40
1:E:1436:SER:OG	1:E:1565:GLU:HB2	2.21	0.40
1:E:1763:PRO:HG3	1:E:2094:LEU:HD22	2.03	0.40
1:E:1973:GLN:OE1	1:E:3641:LEU:HB3	2.21	0.40
1:E:2204:HIS:HA	1:E:2207:VAL:HG12	2.02	0.40
1:E:2673:HIS:CD2	1:E:2716:ASP:HB2	2.56	0.40
1:E:3050:VAL:HG22	1:E:3131:TYR:HE1	1.86	0.40
1:E:3054:VAL:HG21	1:E:3131:TYR:HB2	2.02	0.40
1:E:3142:THR:HA	1:E:3145:GLN:CD	2.41	0.40
1:E:3398:PHE:HA	1:E:3401:LEU:HG	2.02	0.40
1:G:372:LEU:O	1:G:374:LYS:HG2	2.20	0.40
1:G:826:ILE:HG22	1:G:827:LYS:HZ2	1.86	0.40
1:G:2522:LEU:HA	1:G:2526:PHE:HB2	2.03	0.40
1:G:3135:ALA:O	1:G:3139:VAL:HG23	2.20	0.40
1:J:16:THR:HB	1:J:98:HIS:HA	2.02	0.40
1:J:208:CYS:O	1:J:273:HIS:ND1	2.54	0.40
1:J:596:ASN:OD1	1:J:596:ASN:N	2.55	0.40
1:J:1154:ASP:OD1	1:J:1154:ASP:N	2.54	0.40
1:J:2736:ASP:OD1	1:J:2736:ASP:N	2.51	0.40
1:J:3052:HIS:CD2	1:J:3053:ARG:NH1	2.89	0.40
1:J:3157:ILE:HA	1:J:3161:VAL:HB	2.02	0.40
1:J:3327:LEU:HD11	1:J:3365:LEU:HD11	2.02	0.40
1:J:3573:MET:O	1:J:3577:ARG:HG2	2.21	0.40
1:J:3604:TYR:HE1	1:J:3608:GLN:HE21	1.69	0.40
1:J:3816:MET:O	1:J:3820:LEU:HG	2.21	0.40
1:J:4202:ARG:HG3	1:J:4206:GLU:OE2	2.21	0.40
1:J:4958:CYS:HA	5:J:5102:ATP:C8	2.56	0.40
2:A:61:GLU:O	2:A:65:GLN:HG3	2.21	0.40
2:A:76:CYS:HB3	2:A:80:VAL:HG23	2.02	0.40
2:D:66:MET:HG3	2:D:67:SER:H	1.86	0.40
2:H:7:ILE:CG2	2:H:71:ARG:HE	2.35	0.40
3:F:59:TYR:HB3	3:F:63:VAL:HG21	2.03	0.40
3:F:104:TYR:CD1	3:F:104:TYR:C	2.95	0.40
1:B:1071:ARG:O	1:B:1196:PRO:HD3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2975:ALA:HA	1:B:3053:ARG:NH2	2.36	0.40
1:B:3261:ALA:HB3	1:B:3266:MET:CE	2.51	0.40
1:B:3391:GLU:HA	1:B:3394:VAL:HG22	2.03	0.40
1:B:3457:ASN:OD1	1:B:3458:PHE:N	2.55	0.40
1:B:3518:LEU:HB3	1:B:3519:PRO:HD3	2.03	0.40
1:B:3658:LYS:HB2	1:B:3658:LYS:HE3	1.79	0.40
1:B:3842:LEU:O	1:B:3929:SER:HB3	2.21	0.40
1:B:4991:PHE:HE2	1:B:5010:VAL:HG11	1.85	0.40
1:E:2251:PHE:CE2	1:E:2286:LEU:HD22	2.56	0.40
1:E:2627:VAL:HG13	1:E:2678:LEU:HD13	2.03	0.40
1:E:2645:THR:HB	1:E:2702:CYS:HA	2.02	0.40
1:E:2978:GLU:OE1	1:E:3053:ARG:NH2	2.53	0.40
1:E:3052:HIS:CD2	1:E:3053:ARG:NH1	2.89	0.40
1:E:3187:ARG:NH1	1:E:3268:HIS:HA	2.36	0.40
1:E:3246:LEU:O	1:E:3250:MET:HG3	2.21	0.40
1:E:3816:MET:O	1:E:3820:LEU:HG	2.22	0.40
1:G:345:LEU:HD23	1:G:345:LEU:H	1.85	0.40
1:G:613:ALA:HB1	1:G:618:GLN:NE2	2.37	0.40
1:G:1436:SER:OG	1:G:1565:GLU:HB2	2.21	0.40
1:G:2927:LEU:HA	1:G:2930:LEU:HD12	2.04	0.40
1:G:3008:GLN:NE2	1:G:3012:ASN:HD22	2.20	0.40
1:G:3100:SER:OG	1:G:3164:SER:OG	2.38	0.40
1:G:3142:THR:HA	1:G:3145:GLN:CD	2.41	0.40
1:G:3261:ALA:O	1:G:3325:ASN:ND2	2.54	0.40
1:G:3391:GLU:HA	1:G:3394:VAL:HG22	2.03	0.40
1:G:3443:ILE:HG22	1:G:3605:HIS:ND1	2.37	0.40
1:J:144:GLU:HA	1:J:147:TRP:CD1	2.56	0.40
1:J:235:ALA:H	1:J:373:LYS:HE3	1.86	0.40
1:J:894:GLY:H	1:J:904:HIS:H	1.68	0.40
1:J:954:LYS:HA	1:J:954:LYS:HD2	1.77	0.40
1:J:1003:GLN:HG3	3:K:1:GLN:HE22	1.86	0.40
1:J:1763:PRO:HG3	1:J:2094:LEU:HD22	2.03	0.40
1:J:3191:GLY:HA2	1:J:3194:LEU:HG	2.03	0.40
2:A:23:VAL:HA	2:A:46:PHE:O	2.21	0.40
2:H:66:MET:HG3	2:H:67:SER:H	1.86	0.40
2:I:23:VAL:HA	2:I:46:PHE:O	2.21	0.40
2:I:30:LEU:HD22	2:I:36:PHE:CD1	2.56	0.40
2:I:81:ALA:HB1	2:I:97:LEU:HD13	2.03	0.40
3:M:100:VAL:HG13	3:M:104:TYR:O	2.21	0.40
1:B:1043:VAL:HA	1:B:1046:LEU:HD12	2.03	0.40
1:B:2790:MET:HG3	1:B:2792:ARG:CZ	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2977:LEU:HD11	1:B:2995:ILE:HD13	2.03	0.40
1:B:3006:ILE:HD11	1:B:3010:PHE:CZ	2.55	0.40
1:B:3443:ILE:HG22	1:B:3605:HIS:ND1	2.36	0.40
1:B:4043:GLN:O	1:B:4047:MET:HG2	2.22	0.40
1:E:596:ASN:OD1	1:E:596:ASN:N	2.55	0.40
1:E:651:GLY:O	1:E:658:GLN:HG3	2.21	0.40
1:E:1078:GLU:HB3	1:E:1081:TYR:CE2	2.56	0.40
1:E:2194:HIS:O	1:E:2198:MET:HG2	2.21	0.40
1:E:3102:ASP:HA	1:E:3105:LYS:HE2	2.02	0.40
1:E:3532:LEU:HA	1:E:3535:LEU:HG	2.03	0.40
1:E:3541:ALA:O	1:E:3543:LYS:HE2	2.21	0.40
1:E:3591:LYS:O	1:E:3595:ARG:HG2	2.22	0.40
1:E:3834:ALA:O	1:E:3838:THR:HG23	2.21	0.40
1:G:16:THR:HB	1:G:98:HIS:HA	2.02	0.40
1:G:487:VAL:O	1:G:491:ILE:HG13	2.22	0.40
1:G:2251:PHE:CE2	1:G:2286:LEU:HD22	2.57	0.40
1:G:2871:LEU:O	1:G:2874:MET:HG3	2.21	0.40
1:G:3067:CYS:HA	1:G:3070:ILE:HG12	2.03	0.40
1:G:3102:ASP:HA	1:G:3105:LYS:HE2	2.03	0.40
1:G:4822:THR:O	1:G:4826:ILE:HG13	2.22	0.40
1:J:148:TRP:CH2	1:J:180:LEU:HD13	2.56	0.40
1:J:487:VAL:O	1:J:491:ILE:HG13	2.22	0.40
1:J:514:SER:O	1:J:518:ILE:HG13	2.22	0.40
1:J:2122:SER:O	1:J:2126:ARG:HG3	2.20	0.40
1:J:2134:LEU:O	1:J:2138:LEU:HG	2.20	0.40
1:J:2211:MET:HE2	1:J:2272:PRO:HG3	2.02	0.40
1:J:2875:ALA:HB2	1:J:2927:LEU:HD22	2.03	0.40
1:J:3261:ALA:O	1:J:3325:ASN:ND2	2.54	0.40
1:J:3398:PHE:CD1	1:J:3451:PHE:HD1	2.39	0.40
1:J:3414:ARG:HE	1:J:3475:LYS:C	2.25	0.40
1:J:4097:MET:SD	1:J:4103:PHE:HD1	2.44	0.40
1:J:4822:THR:O	1:J:4826:ILE:HG13	2.22	0.40
2:A:11:ASP:O	2:A:13:ARG:NH1	2.54	0.40
2:D:78:PRO:HG3	2:D:95:ALA:O	2.22	0.40
2:I:15:PHE:HE1	2:I:67:SER:HB3	1.85	0.40
1:B:255:HIS:HD2	1:B:480:GLU:CG	2.34	0.40
1:B:474:ARG:O	1:B:478:PHE:HD1	2.04	0.40
1:B:651:GLY:O	1:B:658:GLN:HG3	2.21	0.40
1:B:786:GLY:N	1:B:1630:CYS:O	2.55	0.40
1:B:999:ASP:O	1:B:1003:GLN:HG3	2.22	0.40
1:B:2875:ALA:HB2	1:B:2927:LEU:HD22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2927:LEU:HA	1:B:2930:LEU:HD12	2.04	0.40
1:B:3187:ARG:NH1	1:B:3268:HIS:HA	2.36	0.40
1:B:3833:GLN:O	1:B:3836:MET:HG3	2.22	0.40
1:B:4821:LYS:O	1:B:4824:ARG:HB2	2.22	0.40
1:E:793:LEU:HD12	1:E:821:LEU:HD21	2.04	0.40
1:E:2380:ILE:HG21	1:E:2469:ILE:HD11	2.03	0.40
1:E:3008:GLN:NE2	1:E:3012:ASN:HD22	2.20	0.40
1:E:3035:GLU:HA	1:E:3038:MET:HG2	2.04	0.40
1:E:3414:ARG:HE	1:E:3475:LYS:C	2.25	0.40
1:E:3592:ILE:HA	1:E:3595:ARG:HE	1.87	0.40
1:E:3992:PHE:O	1:E:3996:PHE:HD2	2.05	0.40
1:E:4202:ARG:HG3	1:E:4206:GLU:OE2	2.21	0.40
1:G:400:ALA:O	1:G:404:ILE:HG13	2.22	0.40
1:G:786:GLY:N	1:G:1630:CYS:O	2.55	0.40
1:G:863:LEU:HD11	1:G:930:LYS:HG3	2.02	0.40
1:G:999:ASP:O	1:G:1003:GLN:HG3	2.22	0.40
1:G:1679:ASN:O	1:G:1683:HIS:ND1	2.55	0.40
1:G:2579:VAL:O	1:G:2583:LEU:HD23	2.22	0.40
1:G:3050:VAL:HG22	1:G:3131:TYR:HE1	1.86	0.40
1:G:3187:ARG:NH1	1:G:3268:HIS:HA	2.36	0.40
1:G:3261:ALA:HB3	1:G:3266:MET:CE	2.51	0.40
1:G:3518:LEU:HB3	1:G:3519:PRO:HD3	2.03	0.40
1:G:4218:ILE:HD12	1:G:4954:MET:SD	2.60	0.40
1:G:4879:MET:HG2	1:G:4880:MET:CE	2.51	0.40
1:J:786:GLY:N	1:J:1630:CYS:O	2.55	0.40
1:J:790:ARG:HA	1:J:1626:TRP:O	2.21	0.40
1:J:1043:VAL:HA	1:J:1046:LEU:HD12	2.03	0.40
1:J:2251:PHE:CE2	1:J:2286:LEU:HD22	2.57	0.40
1:J:3142:THR:HA	1:J:3145:GLN:CD	2.41	0.40
1:J:3443:ILE:HG22	1:J:3605:HIS:ND1	2.37	0.40
1:J:3842:LEU:O	1:J:3929:SER:HB3	2.22	0.40
2:I:7:ILE:CG2	2:I:71:ARG:HE	2.35	0.40
2:I:11:ASP:O	2:I:13:ARG:NH1	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	B	4280/5027 (85%)	4189 (98%)	89 (2%)	2 (0%)	100	100
1	E	4280/5027 (85%)	4190 (98%)	88 (2%)	2 (0%)	100	100
1	G	4280/5027 (85%)	4190 (98%)	88 (2%)	2 (0%)	100	100
1	J	4280/5027 (85%)	4190 (98%)	88 (2%)	2 (0%)	100	100
2	A	105/107 (98%)	96 (91%)	8 (8%)	1 (1%)	13	48
2	D	105/107 (98%)	96 (91%)	8 (8%)	1 (1%)	13	48
2	H	105/107 (98%)	96 (91%)	8 (8%)	1 (1%)	13	48
2	I	105/107 (98%)	96 (91%)	8 (8%)	1 (1%)	13	48
3	C	124/137 (90%)	113 (91%)	11 (9%)	0	100	100
3	F	124/137 (90%)	113 (91%)	11 (9%)	0	100	100
3	K	124/137 (90%)	113 (91%)	11 (9%)	0	100	100
3	M	124/137 (90%)	111 (90%)	13 (10%)	0	100	100
All	All	18036/21084 (86%)	17593 (98%)	431 (2%)	12 (0%)	50	83

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	86	GLY
2	D	86	GLY
2	H	86	GLY
2	I	86	GLY
1	B	2909	ASP
1	E	2909	ASP
1	G	2909	ASP
1	J	2909	ASP
1	B	2910	THR
1	E	2910	THR
1	G	2910	THR
1	J	2910	THR

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	B	3659/4270 (86%)	3650 (100%)	9 (0%)	92	93
1	E	3659/4270 (86%)	3650 (100%)	9 (0%)	92	93
1	G	3659/4270 (86%)	3650 (100%)	9 (0%)	92	93
1	J	3659/4270 (86%)	3649 (100%)	10 (0%)	91	91
2	A	88/88 (100%)	86 (98%)	2 (2%)	45	64
2	D	88/88 (100%)	86 (98%)	2 (2%)	45	64
2	H	88/88 (100%)	86 (98%)	2 (2%)	45	64
2	I	88/88 (100%)	86 (98%)	2 (2%)	45	64
3	C	104/114 (91%)	103 (99%)	1 (1%)	73	81
3	F	104/114 (91%)	103 (99%)	1 (1%)	73	81
3	K	104/114 (91%)	103 (99%)	1 (1%)	73	81
3	M	104/114 (91%)	103 (99%)	1 (1%)	73	81
All	All	15404/17888 (86%)	15355 (100%)	49 (0%)	90	91

All (49) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	1954	ARG
1	B	2268	GLN
1	B	2593	ARG
1	B	2690	LYS
1	B	2827	ARG
1	B	2914	LYS
1	B	3337	ARG
1	B	3694	LYS
1	B	4091	LYS
1	E	1954	ARG
1	E	2268	GLN
1	E	2593	ARG
1	E	2690	LYS
1	E	2827	ARG

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Mol	Chain	Res	Type
1	E	2914	LYS
1	E	3337	ARG
1	E	3694	LYS
1	E	4091	LYS
1	G	1954	ARG
1	G	2268	GLN
1	G	2593	ARG
1	G	2690	LYS
1	G	2827	ARG
1	G	2914	LYS
1	G	3337	ARG
1	G	3694	LYS
1	G	4091	LYS
1	J	372	LEU
1	J	1954	ARG
1	J	2268	GLN
1	J	2593	ARG
1	J	2690	LYS
1	J	2827	ARG
1	J	2914	LYS
1	J	3337	ARG
1	J	3694	LYS
1	J	4091	LYS
2	A	35	LYS
2	A	44	LYS
2	D	35	LYS
2	D	44	LYS
2	H	35	LYS
2	H	44	LYS
2	I	35	LYS
2	I	44	LYS
3	C	43	LYS
3	F	43	LYS
3	K	43	LYS
3	M	43	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (58) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	12	GLN
1	B	479	GLN
1	B	921	ASN

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Mol	Chain	Res	Type
1	B	1691	GLN
1	B	2204	HIS
1	B	2673	HIS
1	B	3008	GLN
1	B	3013	HIS
1	B	3162	GLN
1	B	3456	GLN
1	B	3813	GLN
1	B	3960	GLN
1	E	12	GLN
1	E	479	GLN
1	E	921	ASN
1	E	1691	GLN
1	E	2204	HIS
1	E	2673	HIS
1	E	3008	GLN
1	E	3013	HIS
1	E	3162	GLN
1	E	3456	GLN
1	E	3813	GLN
1	E	3889	GLN
1	E	3960	GLN
1	G	12	GLN
1	G	479	GLN
1	G	921	ASN
1	G	1691	GLN
1	G	2204	HIS
1	G	2673	HIS
1	G	3008	GLN
1	G	3013	HIS
1	G	3162	GLN
1	G	3456	GLN
1	G	3813	GLN
1	G	3960	GLN
1	J	12	GLN
1	J	479	GLN
1	J	904	HIS
1	J	921	ASN
1	J	1691	GLN
1	J	2204	HIS
1	J	2673	HIS
1	J	3008	GLN

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Mol	Chain	Res	Type
1	J	3013	HIS
1	J	3162	GLN
1	J	3456	GLN
1	J	3813	GLN
1	J	3960	GLN
3	C	44	GLN
3	C	122	GLN
3	F	5	GLN
3	F	44	GLN
3	F	122	GLN
3	K	44	GLN
3	K	122	GLN
3	M	122	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 16 ligands modelled in this entry, 8 are monoatomic - leaving 8 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
5	ATP	G	5102	-	26,33,33	0.60	0	31,52,52	0.77	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
6	CFF	G	5103	-	8,15,15	1.02	0	8,23,23	2.45	2 (25%)
6	CFF	J	5103	-	8,15,15	1.03	0	8,23,23	2.44	2 (25%)
5	ATP	J	5102	-	26,33,33	0.60	0	31,52,52	0.77	2 (6%)
6	CFF	E	5103	-	8,15,15	1.01	0	8,23,23	2.45	2 (25%)
5	ATP	E	5102	-	26,33,33	0.60	0	31,52,52	0.77	2 (6%)
6	CFF	B	5103	-	8,15,15	1.03	0	8,23,23	2.46	2 (25%)
5	ATP	B	5102	-	26,33,33	0.60	0	31,52,52	0.77	2 (6%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	ATP	G	5102	-	-	5/18/38/38	0/3/3/3
6	CFF	G	5103	-	-	-	0/2/2/2
6	CFF	J	5103	-	-	-	0/2/2/2
5	ATP	J	5102	-	-	5/18/38/38	0/3/3/3
6	CFF	E	5103	-	-	-	0/2/2/2
5	ATP	E	5102	-	-	5/18/38/38	0/3/3/3
6	CFF	B	5103	-	-	-	0/2/2/2
5	ATP	B	5102	-	-	5/18/38/38	0/3/3/3

There are no bond length outliers.

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	B	5103	CFF	C5-C6-N1	-5.83	111.98	118.20
6	E	5103	CFF	C5-C6-N1	-5.82	111.99	118.20
6	G	5103	CFF	C5-C6-N1	-5.82	111.99	118.20
6	J	5103	CFF	C5-C6-N1	-5.82	112.00	118.20
6	E	5103	CFF	C4-C5-C6	3.47	122.19	119.96
6	B	5103	CFF	C4-C5-C6	3.47	122.19	119.96
6	G	5103	CFF	C4-C5-C6	3.44	122.17	119.96
6	J	5103	CFF	C4-C5-C6	3.40	122.14	119.96
5	B	5102	ATP	C5-C6-N6	2.29	123.84	120.35
5	J	5102	ATP	C5-C6-N6	2.29	123.83	120.35
5	E	5102	ATP	C5-C6-N6	2.27	123.81	120.35
5	G	5102	ATP	C5-C6-N6	2.27	123.80	120.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	B	5102	ATP	PB-O3B-PG	2.05	139.88	132.83
5	E	5102	ATP	PB-O3B-PG	2.05	139.86	132.83
5	J	5102	ATP	PB-O3B-PG	2.05	139.85	132.83
5	G	5102	ATP	PB-O3B-PG	2.04	139.84	132.83

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	5102	ATP	C5'-O5'-PA-O1A
5	B	5102	ATP	C5'-O5'-PA-O2A
5	E	5102	ATP	C5'-O5'-PA-O1A
5	E	5102	ATP	C5'-O5'-PA-O2A
5	G	5102	ATP	C5'-O5'-PA-O1A
5	G	5102	ATP	C5'-O5'-PA-O2A
5	J	5102	ATP	C5'-O5'-PA-O1A
5	J	5102	ATP	C5'-O5'-PA-O2A
5	B	5102	ATP	C5'-O5'-PA-O3A
5	E	5102	ATP	C5'-O5'-PA-O3A
5	G	5102	ATP	C5'-O5'-PA-O3A
5	J	5102	ATP	C5'-O5'-PA-O3A
5	B	5102	ATP	C4'-C5'-O5'-PA
5	E	5102	ATP	C4'-C5'-O5'-PA
5	G	5102	ATP	C4'-C5'-O5'-PA
5	J	5102	ATP	C4'-C5'-O5'-PA
5	B	5102	ATP	O4'-C4'-C5'-O5'
5	E	5102	ATP	O4'-C4'-C5'-O5'
5	G	5102	ATP	O4'-C4'-C5'-O5'
5	J	5102	ATP	O4'-C4'-C5'-O5'

There are no ring outliers.

8 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	G	5102	ATP	1	0
6	G	5103	CFF	1	0
6	J	5103	CFF	1	0
5	J	5102	ATP	2	0
6	E	5103	CFF	1	0
5	E	5102	ATP	1	0
6	B	5103	CFF	1	0

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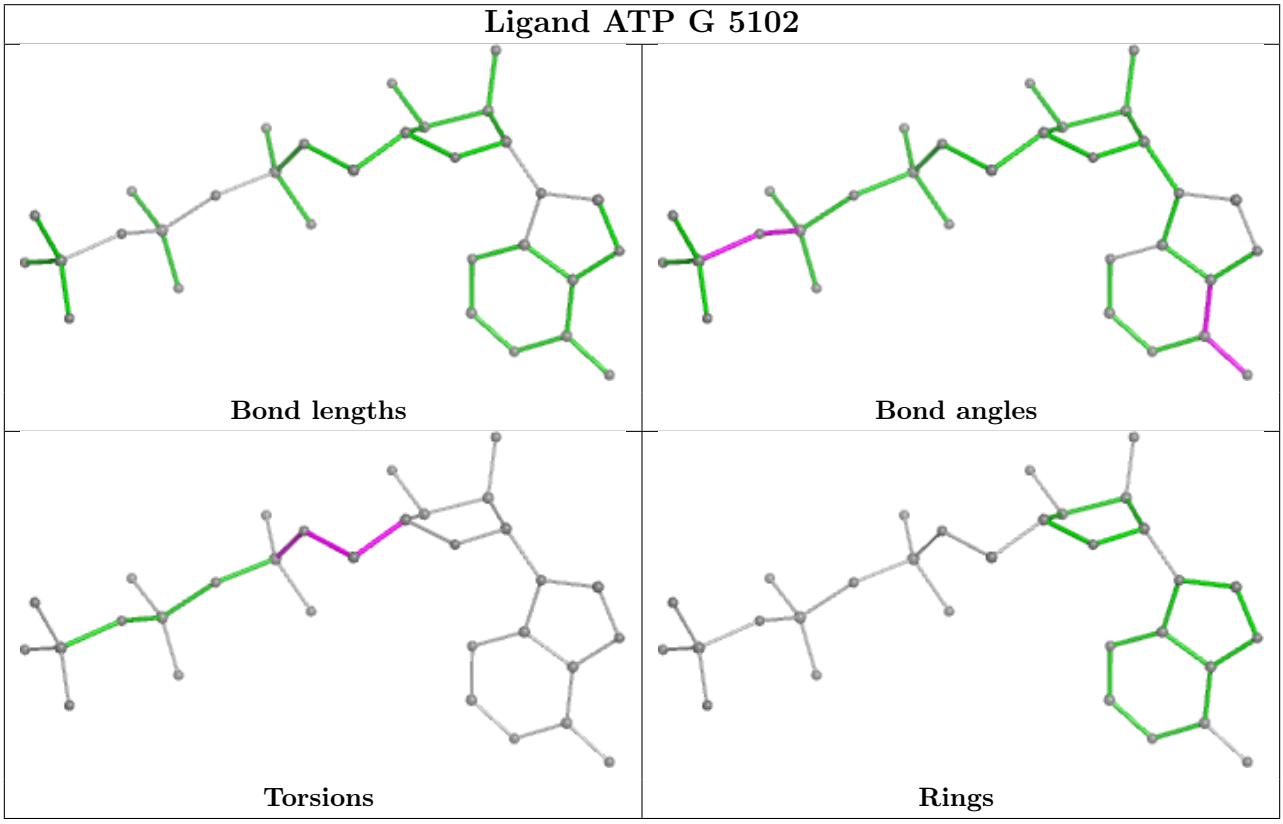
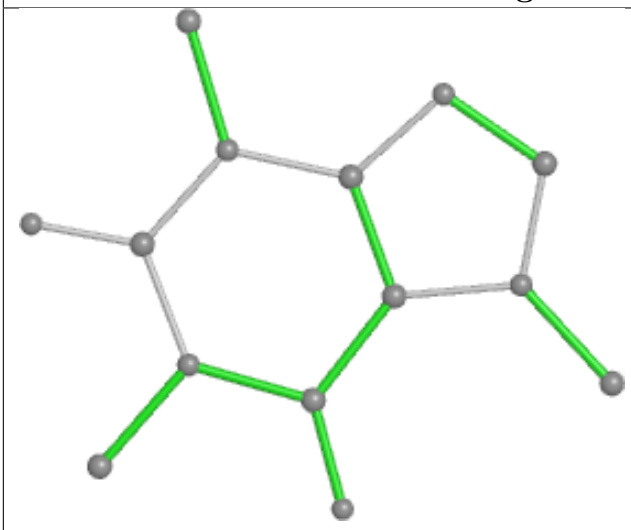
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	5102	ATP	2	0

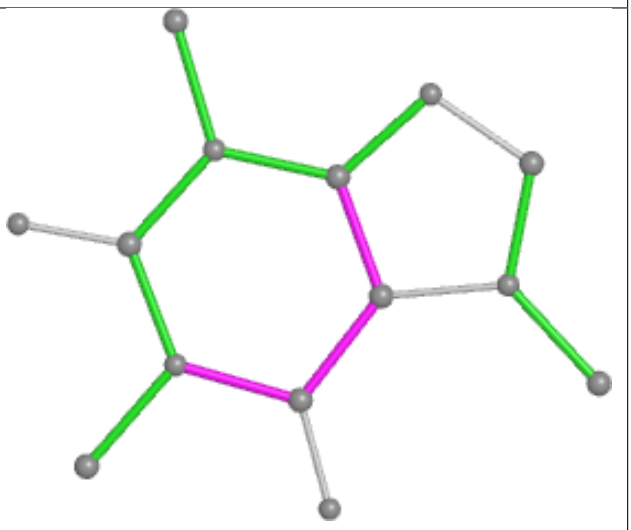
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



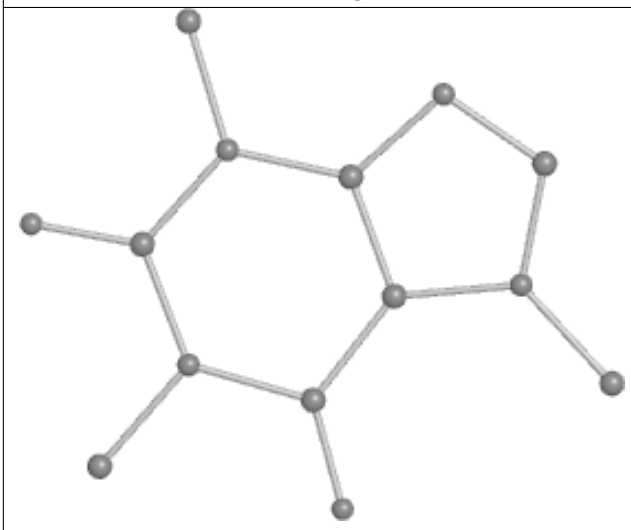
Ligand CFF G 5103



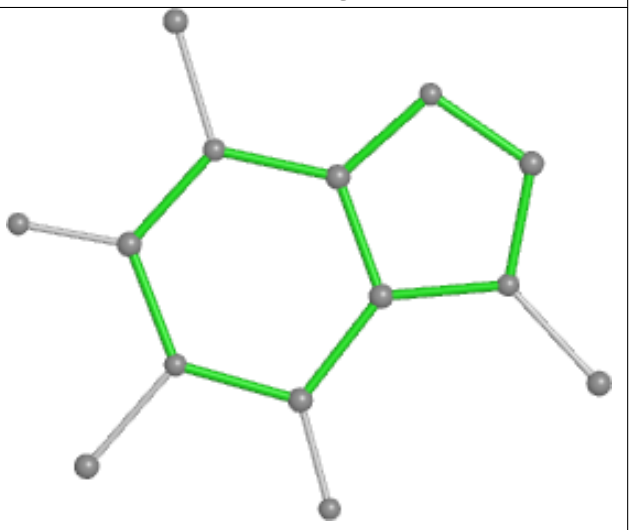
Bond lengths



Bond angles

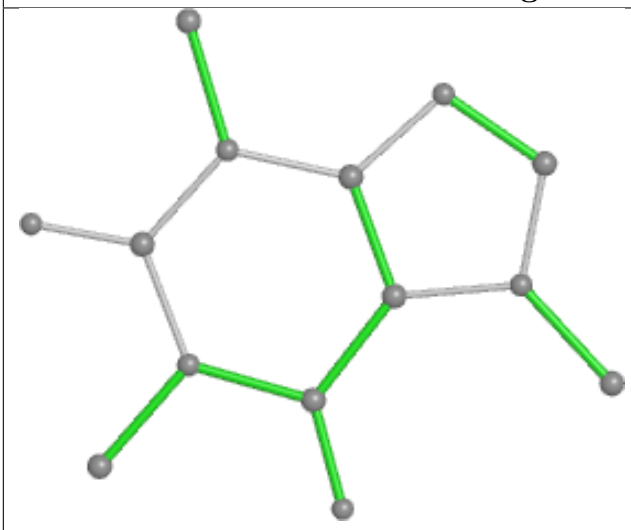


Torsions

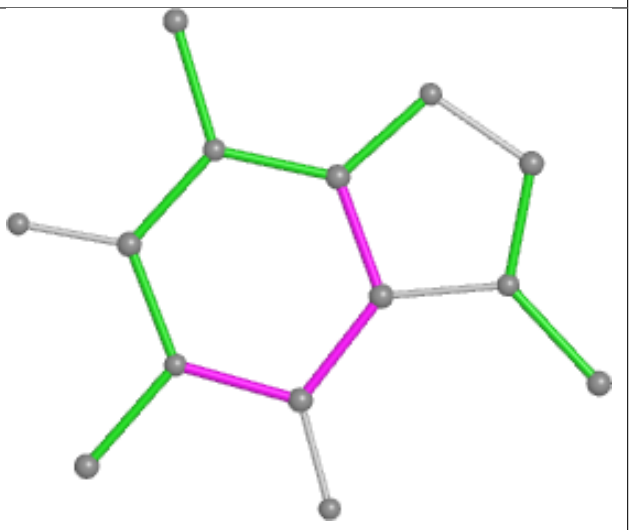


Rings

Ligand CFF J 5103



Bond lengths



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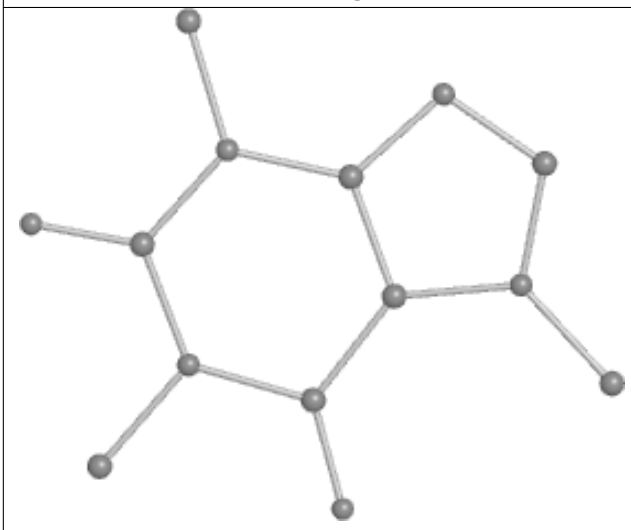
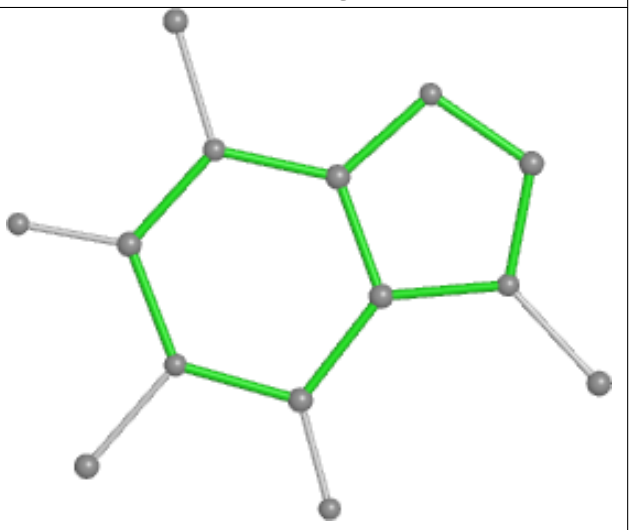
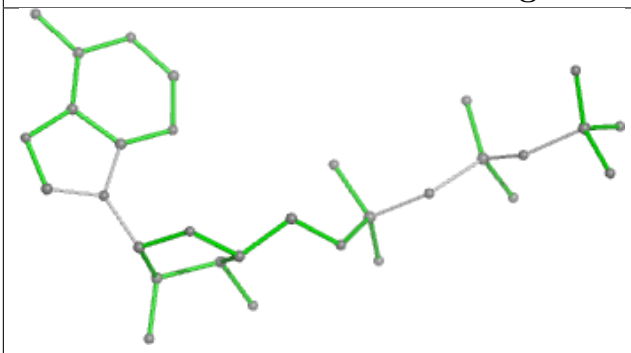


Torsions

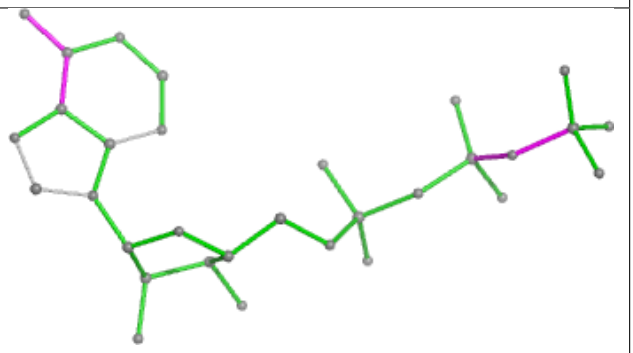


Rings

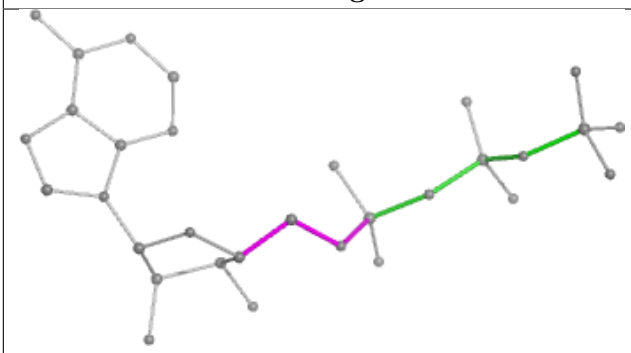
Ligand ATP J 5102



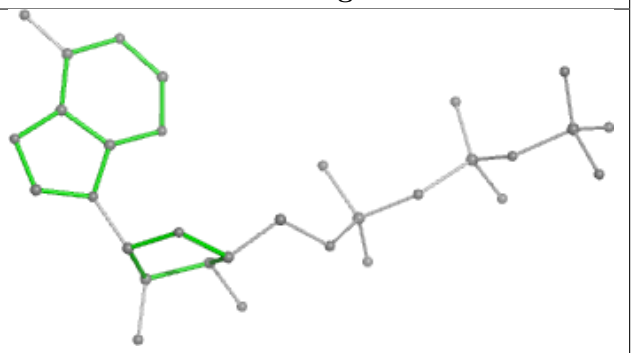
Bond lengths



Bond angles

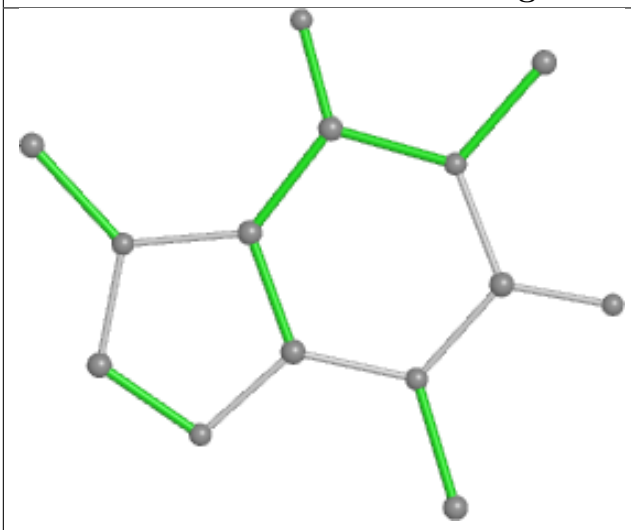


Torsions

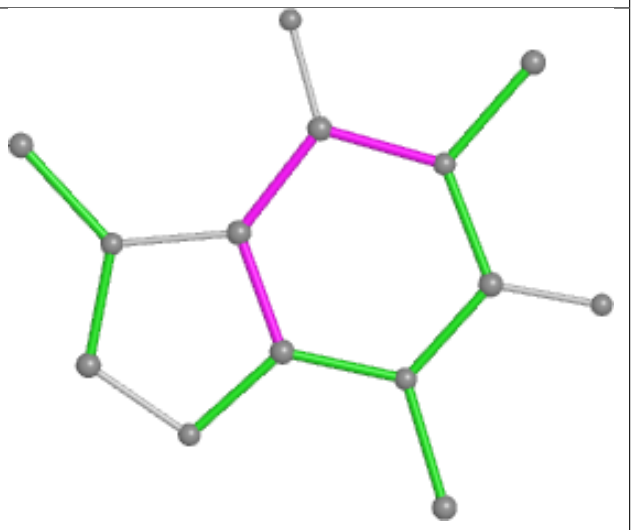


Rings

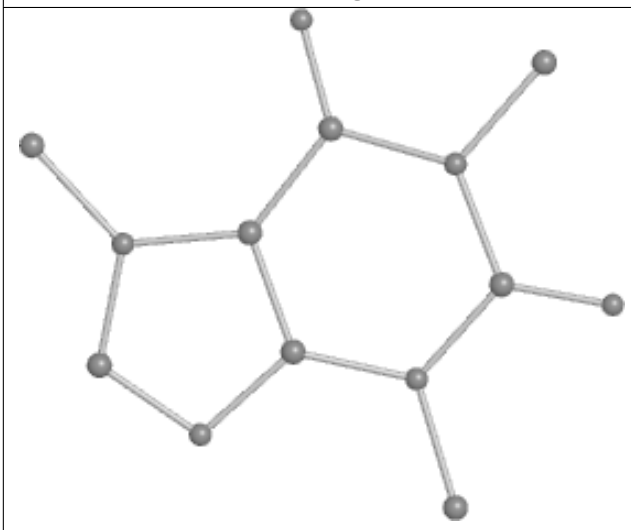
Ligand CFF E 5103



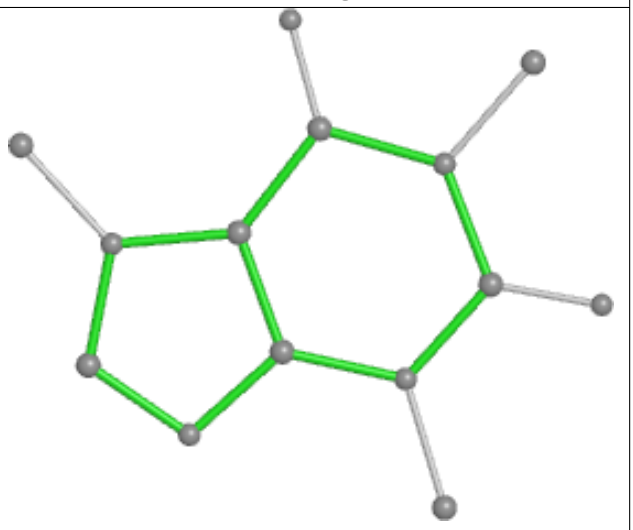
Bond lengths



Bond angles

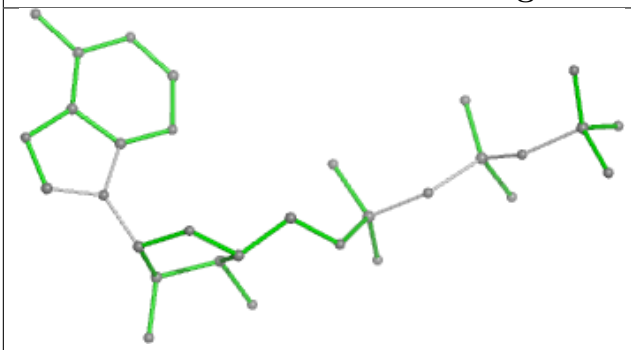


Torsions

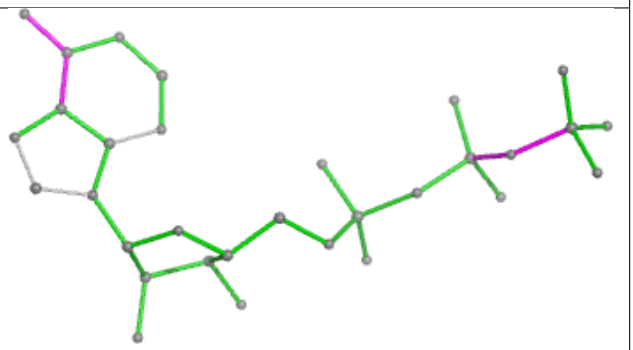


Rings

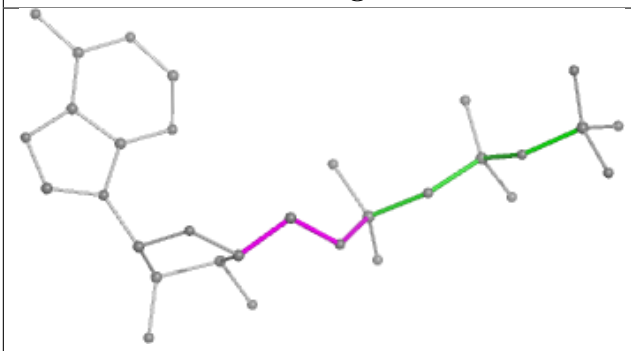
Ligand ATP E 5102



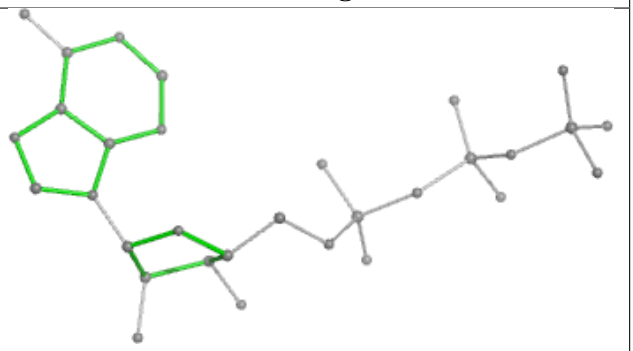
Bond lengths



Bond angles

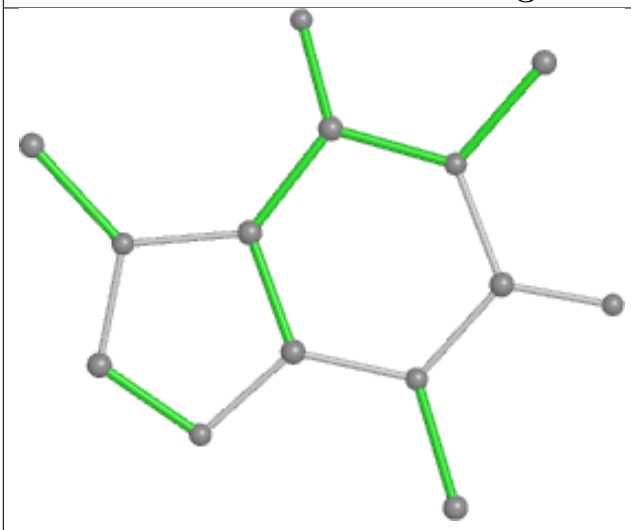


Torsions

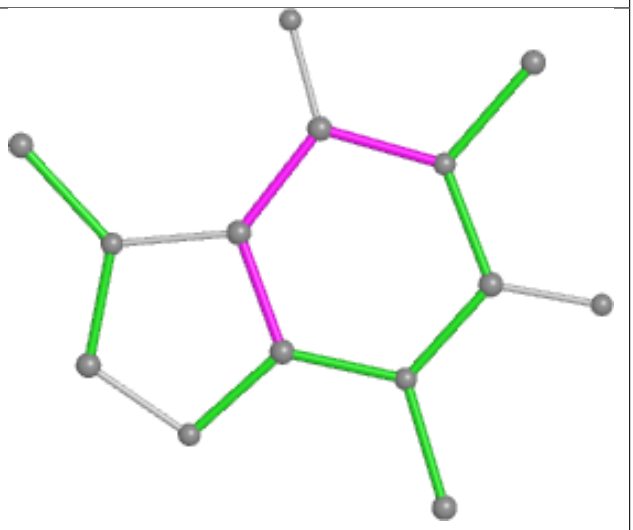


Rings

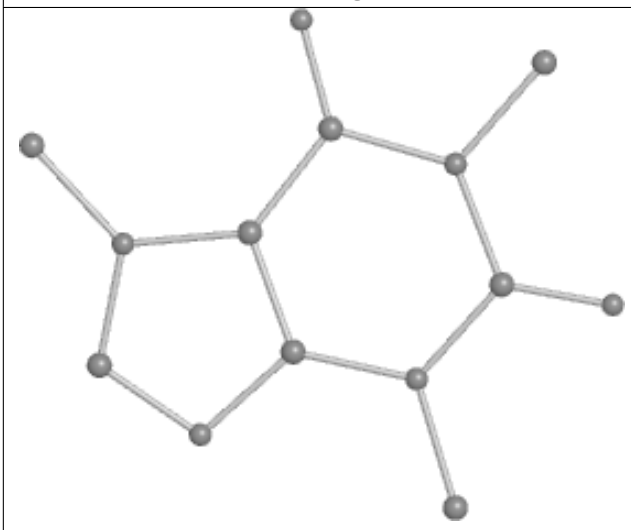
Ligand CFF B 5103



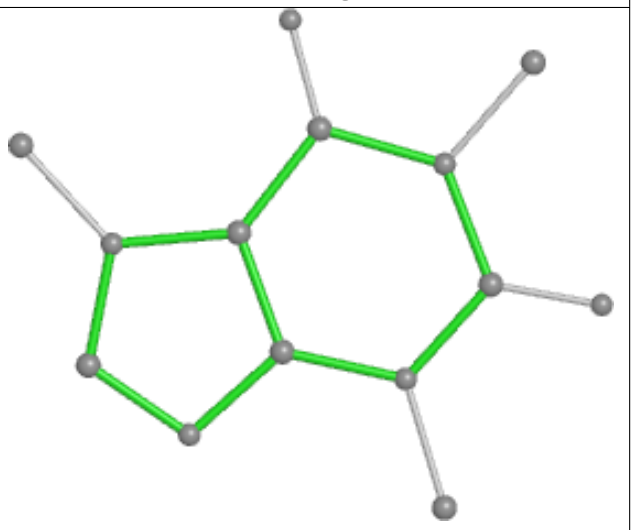
Bond lengths



Bond angles

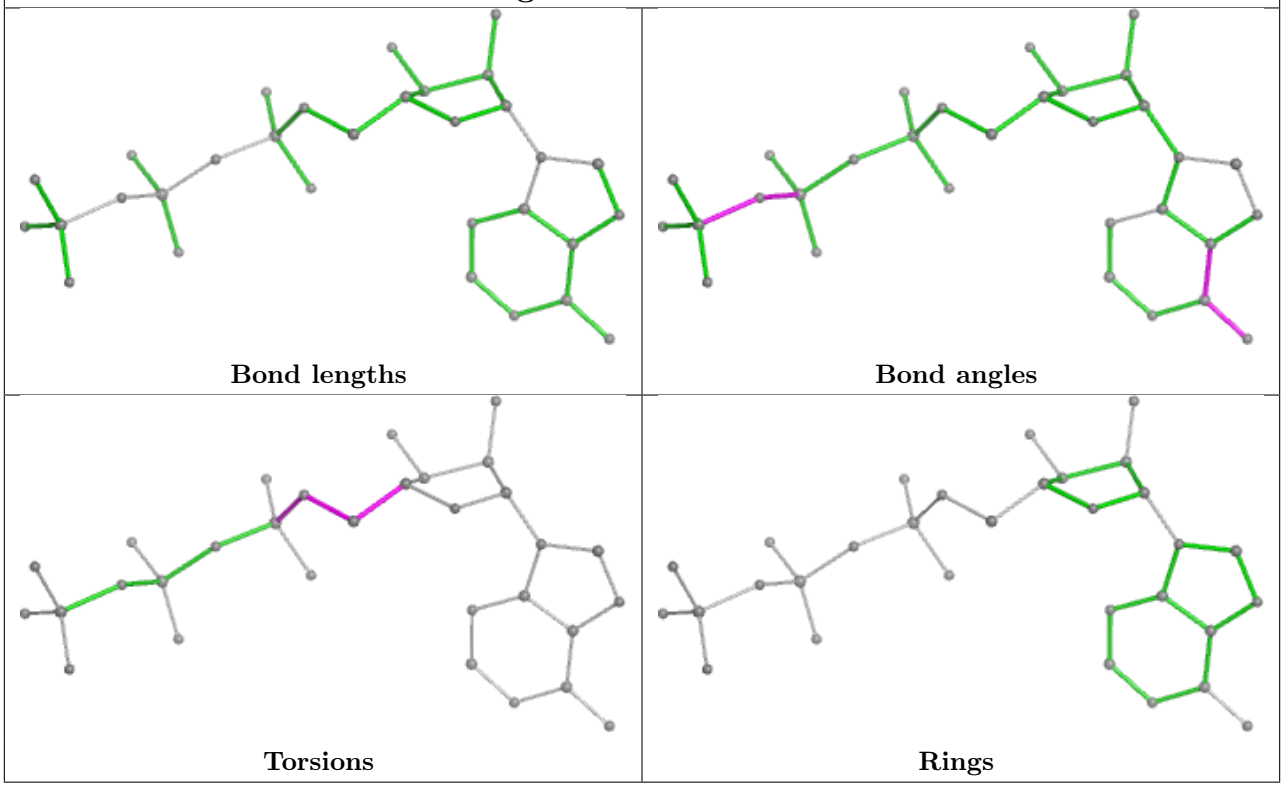


Torsions



Rings

Ligand ATP B 5102



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

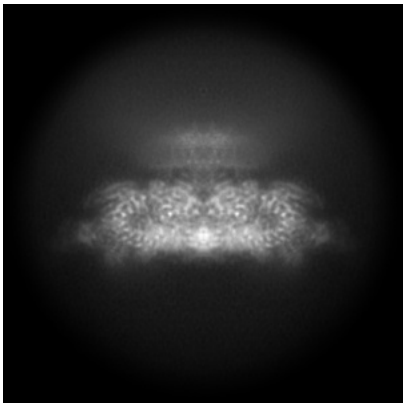
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-19464. These allow visual inspection of the internal detail of the map and identification of artifacts.

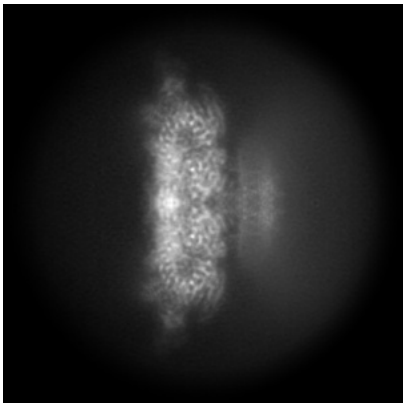
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

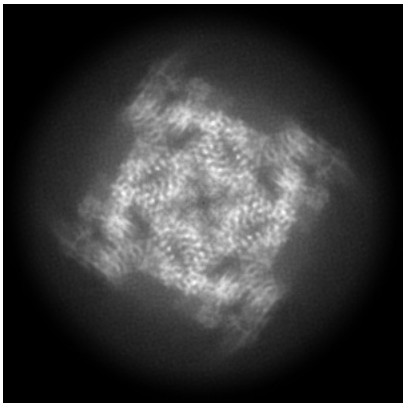
6.1.1 Primary map



X



Y

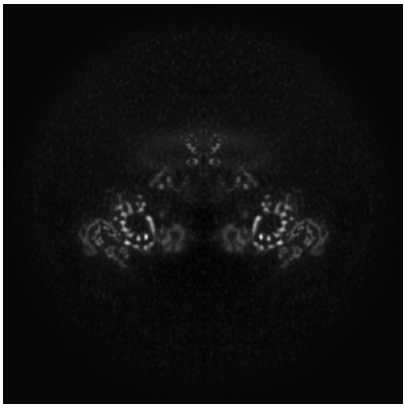


Z

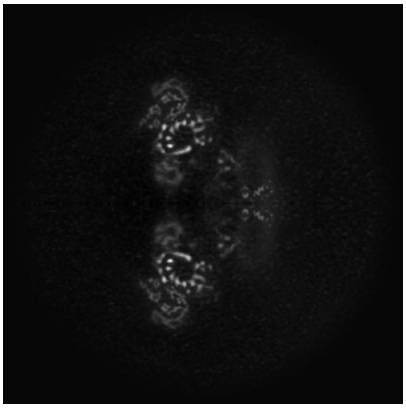
The images above show the map projected in three orthogonal directions.

6.2 Central slices

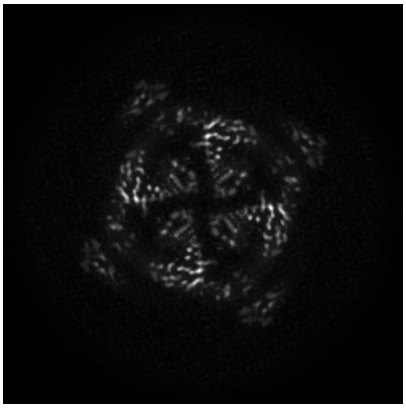
6.2.1 Primary map



X Index: 168



Y Index: 168

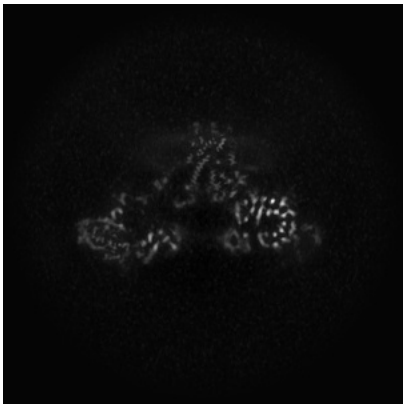


Z Index: 168

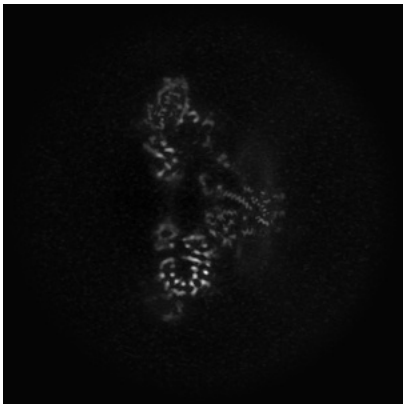
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

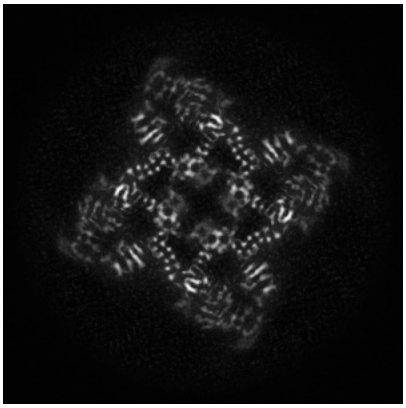
6.3.1 Primary map



X Index: 175



Y Index: 175

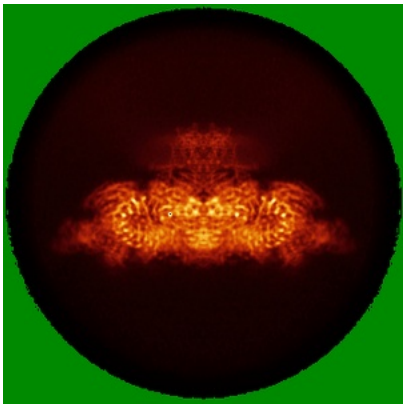


Z Index: 144

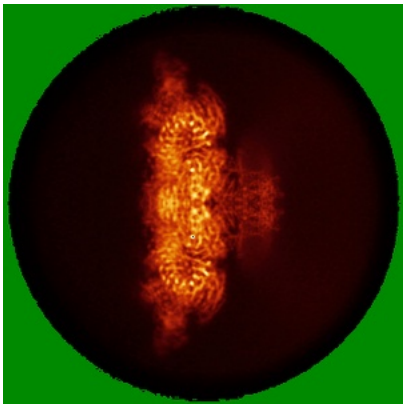
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

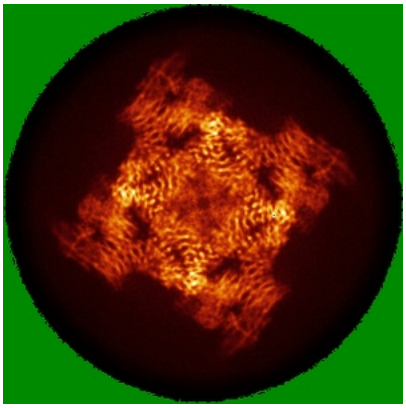
6.4.1 Primary map



X



Y



Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.2. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

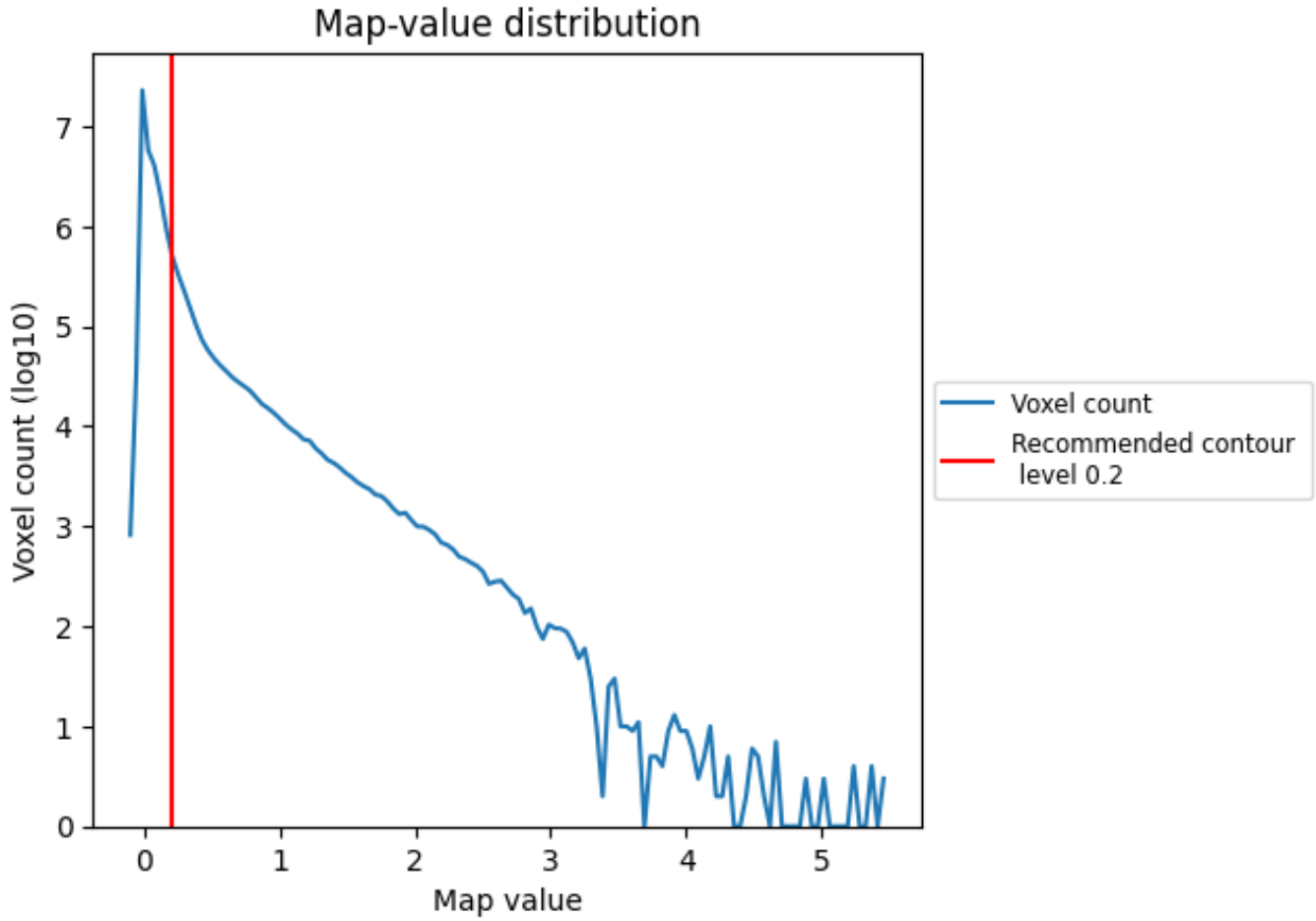
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

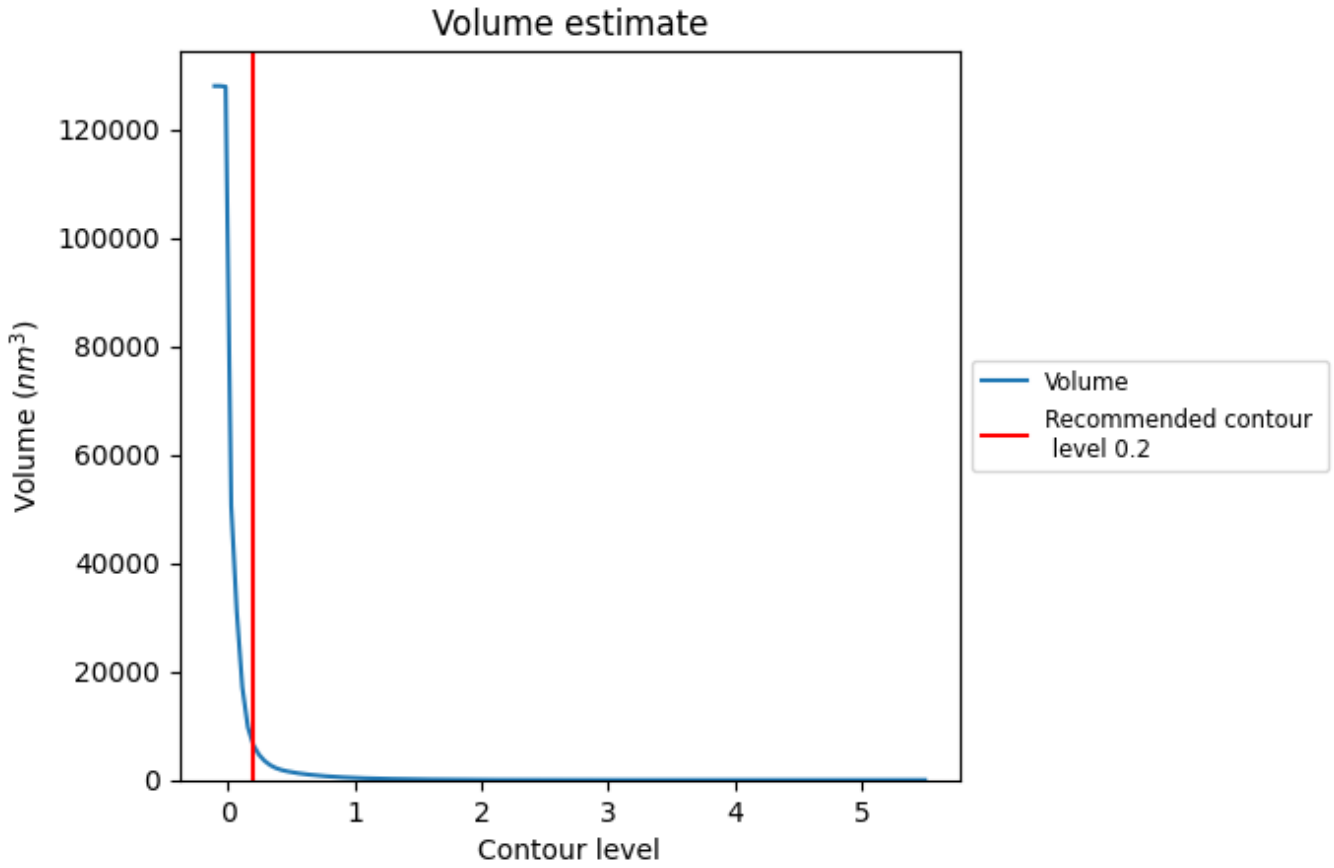
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

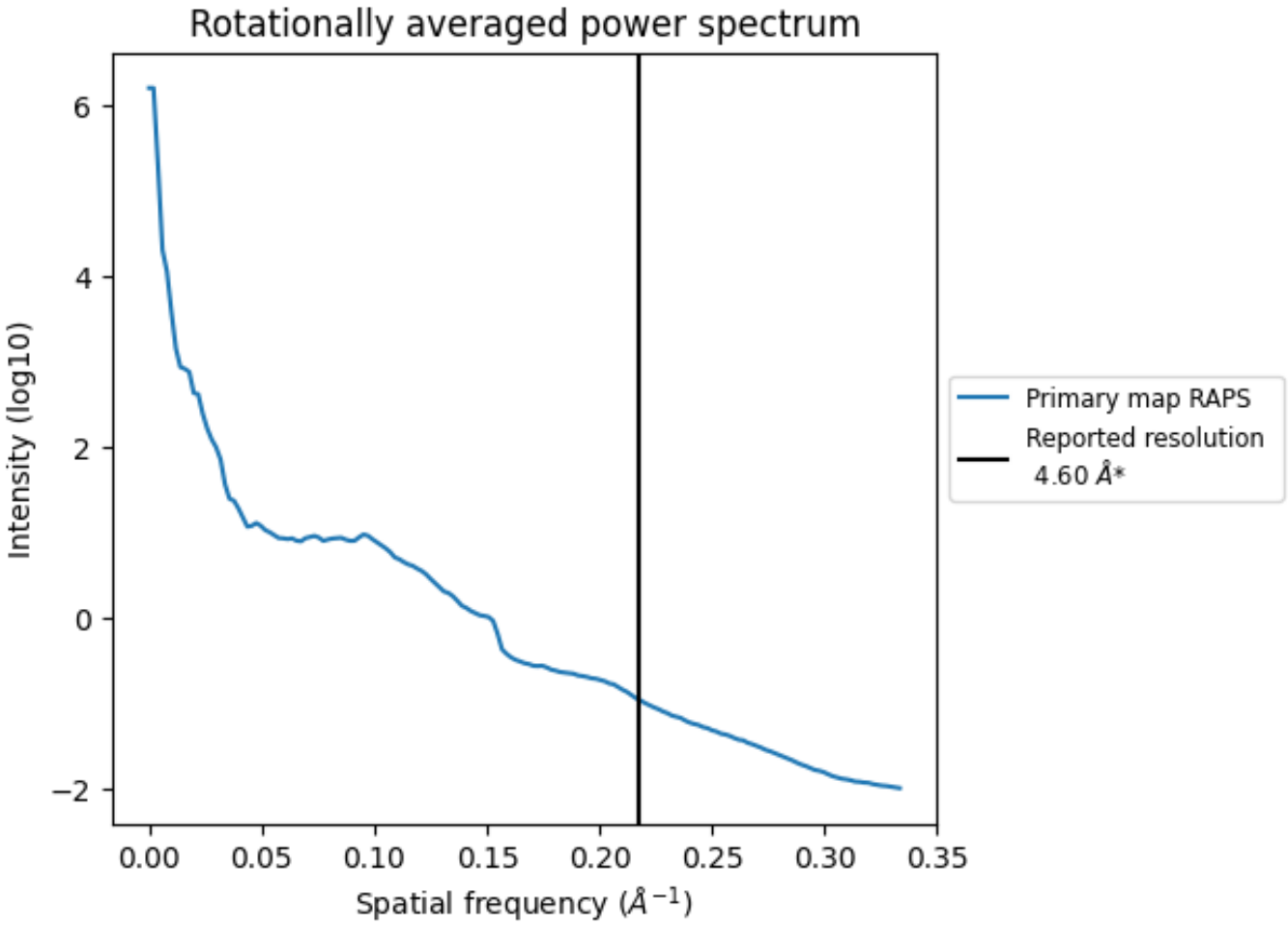
7.2 Volume estimate



The volume at the recommended contour level is 6569 nm^3; this corresponds to an approximate mass of 5934 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)

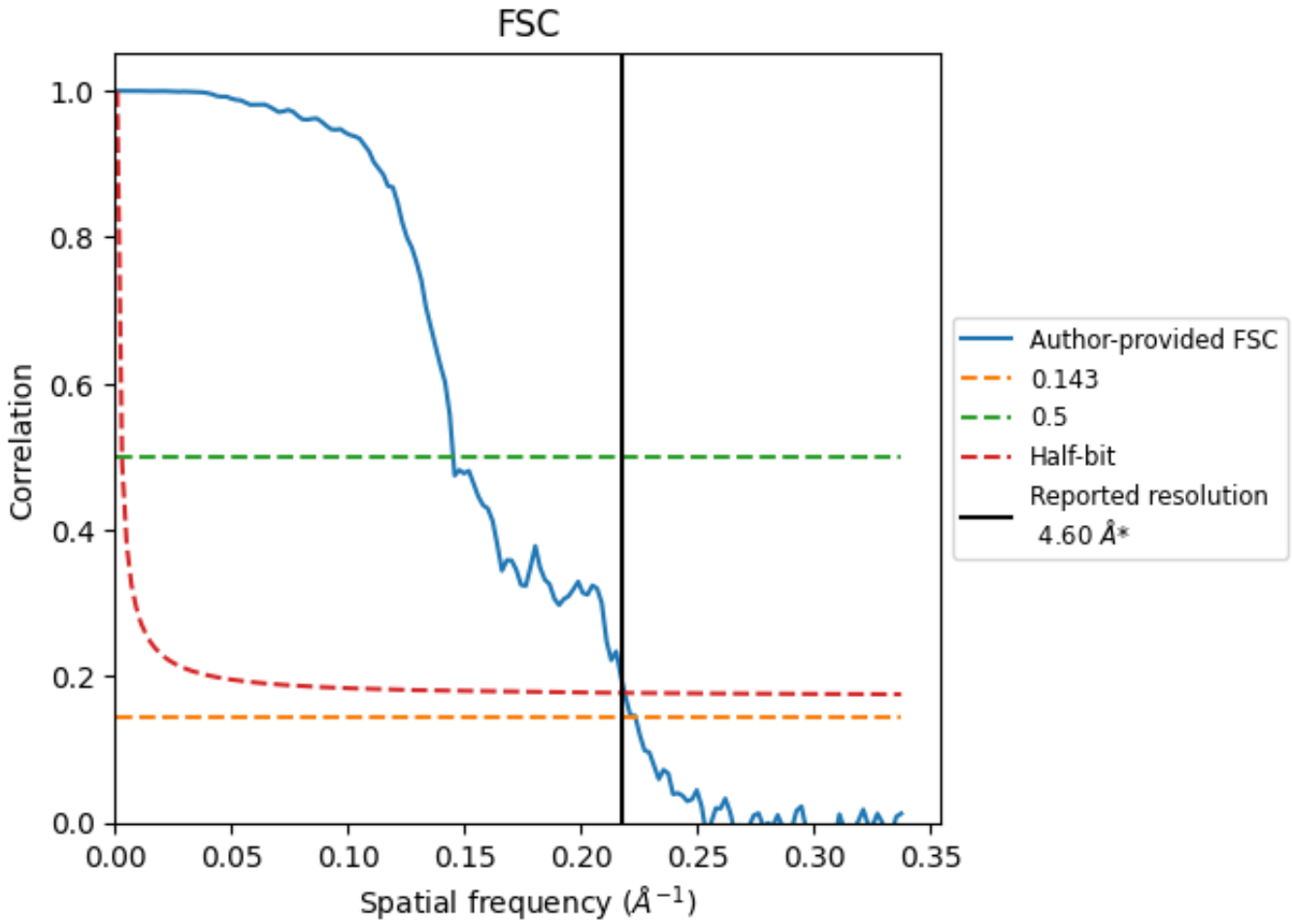


*Reported resolution corresponds to spatial frequency of 0.217 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.217 Å^{-1}

8.2 Resolution estimates (i)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.60	-	-
Author-provided FSC curve	4.48	6.89	4.57
Unmasked-calculated*	-	-	-

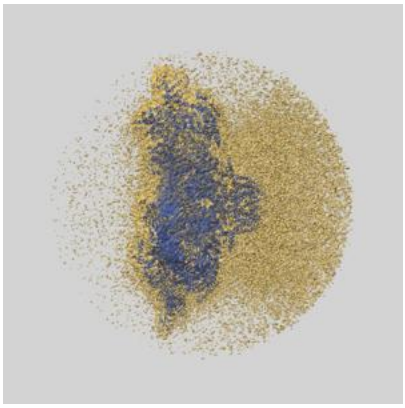
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit

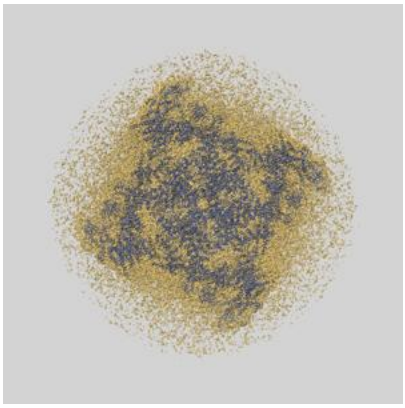
This section contains information regarding the fit between EMDB map EMD-19464 and PDB model 8RRT. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlay

X



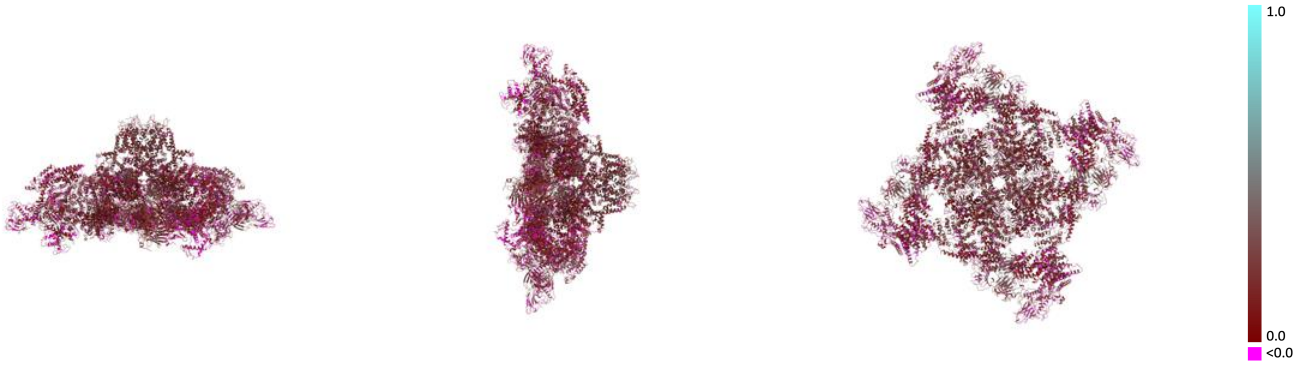
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.2 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

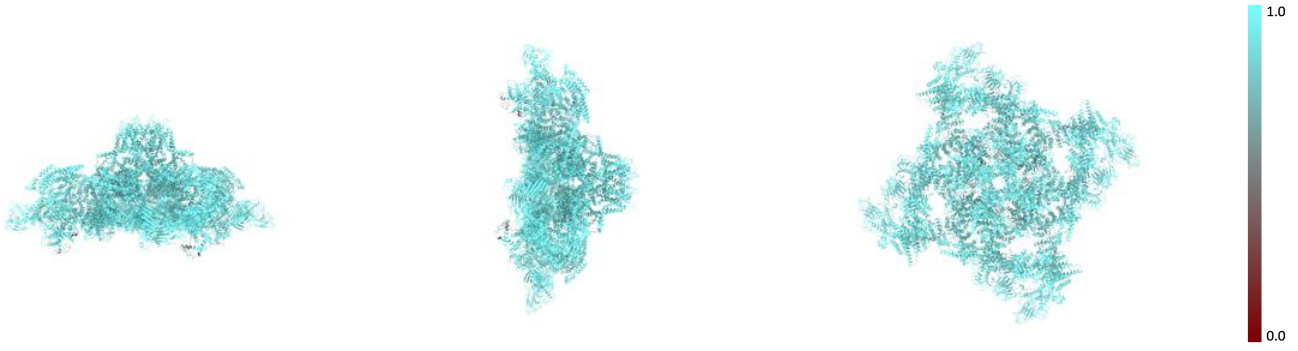
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

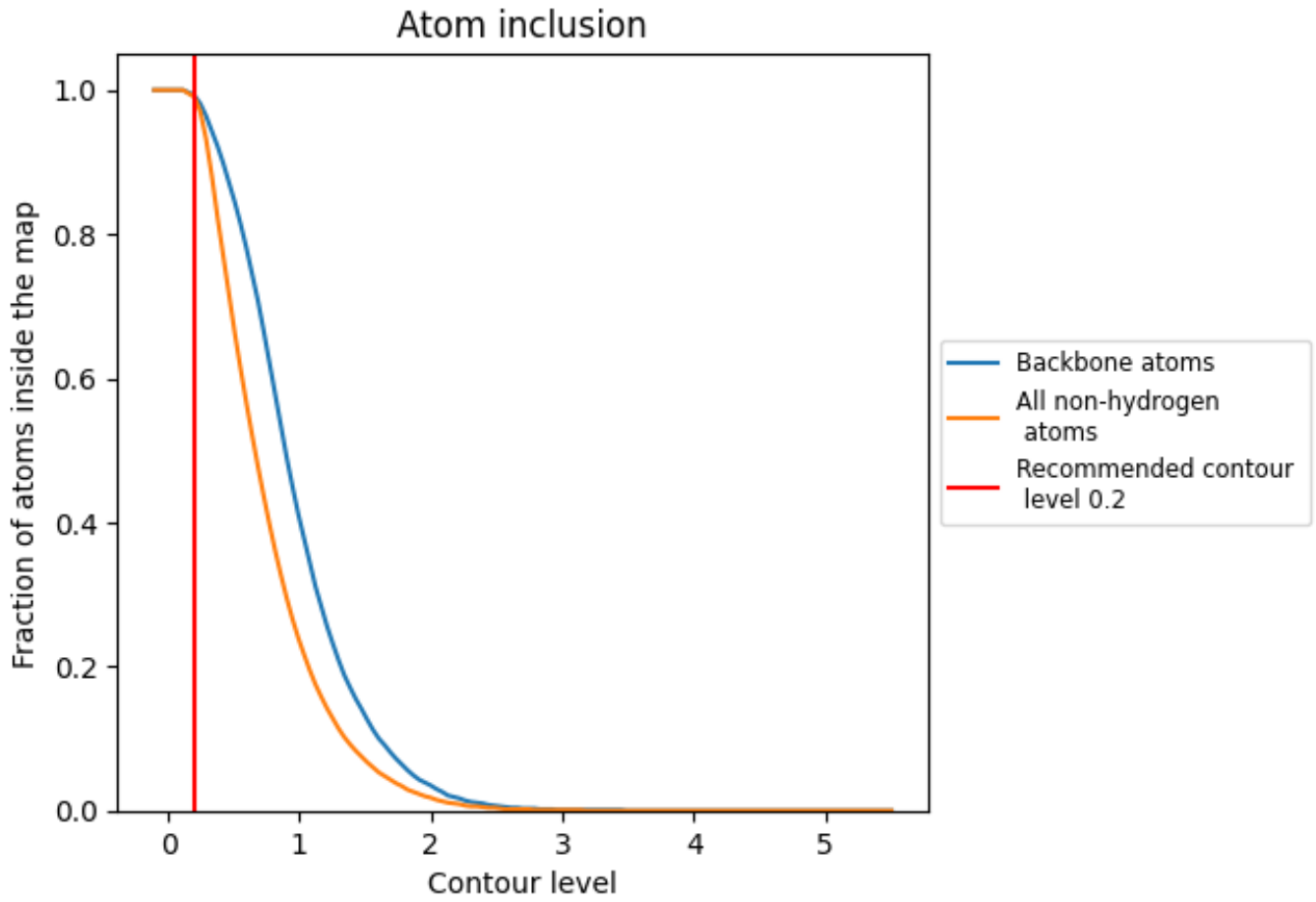
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.2).

9.4 Atom inclusion (i)



At the recommended contour level, 99% of all backbone atoms, 99% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9900	0.1540
A	0.9980	0.1450
B	0.9910	0.1570
C	0.9680	0.0830
D	0.9980	0.1380
E	0.9910	0.1560
F	0.9680	0.0820
G	0.9910	0.1570
H	0.9980	0.1350
I	0.9980	0.1380
J	0.9910	0.1560
K	0.9680	0.0800
M	0.9670	0.0810