Full wwPDB X-ray Structure Validation Report ⓘ

Jun 25, 2024 – 07:18 AM EDT

PDB ID	:	5X4Z
Title	:	RNA Polymerase II from Komagataella Pastoris (Type-1 crystal)
Authors	:	Ehara, H.; Umehara, T.; Sekine, S.; Yokoyama, S.
Deposited on	:	2017-02-14
Resolution	:	7.80 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

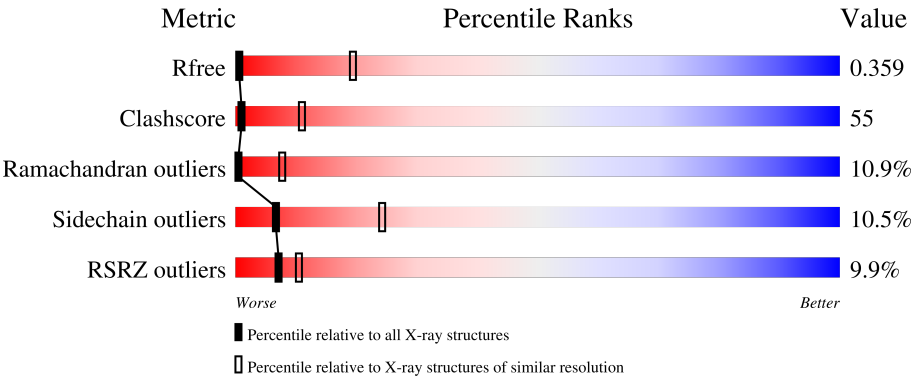
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.37.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 7.80 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1005 (11.50-3.90)
Clashscore	141614	1070 (11.50-3.90)
Ramachandran outliers	138981	1003 (11.50-3.90)
Sidechain outliers	138945	1003 (11.50-3.86)
RSRZ outliers	127900	1004 (9.50-3.80)

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

Mol	Chain	Length	Quality of chain
1	A	1743	7% 27% 42% 9% • 21%
1	M	1743	6% 27% 42% 9% • 20%
2	B	1227	10% 27% 48% 11% • 13%
2	N	1227	10% 27% 48% 11% • 12%
3	C	304	6% 36% 39% 12% 13%

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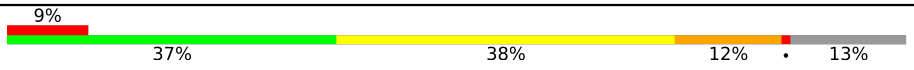
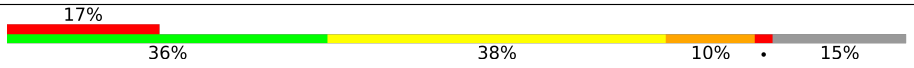
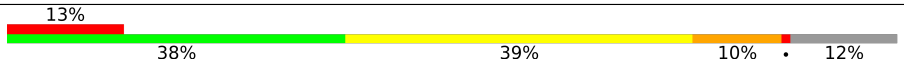
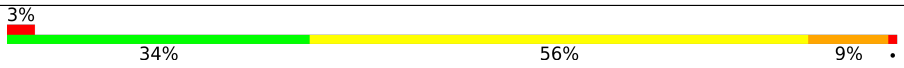
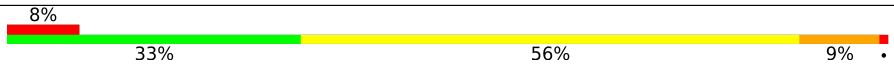
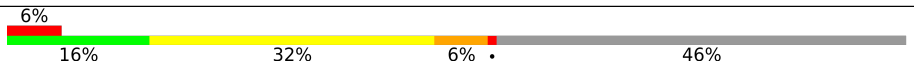
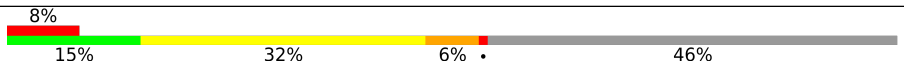
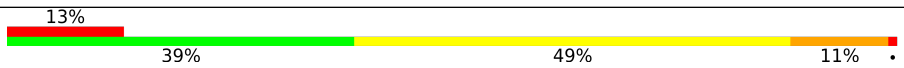
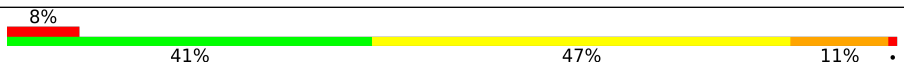
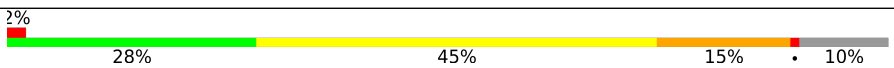
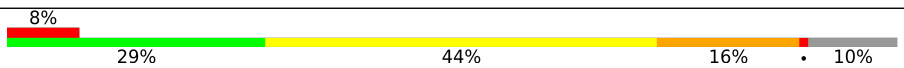
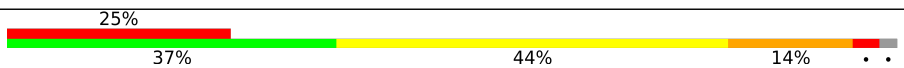
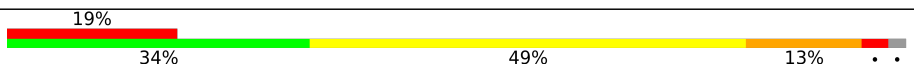
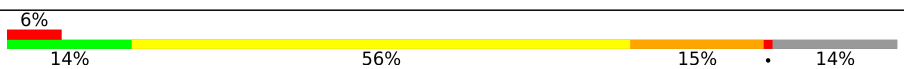
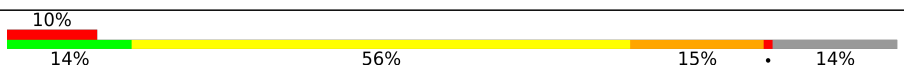
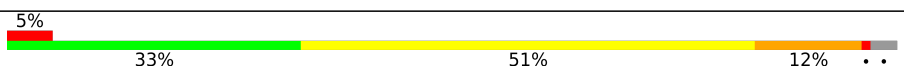
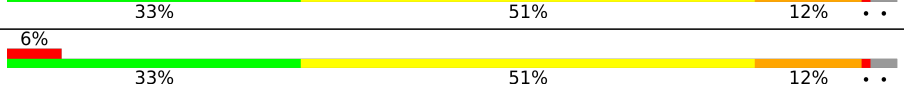
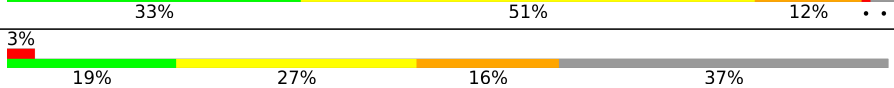
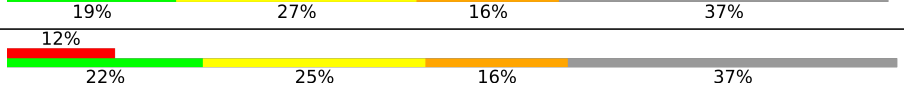
Mol	Chain	Length	Quality of chain
3	O	304	
4	D	186	
4	P	186	
5	E	214	
5	Q	214	
6	F	155	
6	R	155	
7	G	171	
7	S	171	
8	H	145	
8	T	145	
9	I	115	
9	U	115	
10	J	72	
10	V	72	
11	K	118	
11	W	118	
12	L	73	
12	X	73	

2 Entry composition

There are 13 unique types of molecules in this entry. The entry contains 56628 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1384	Total	C	N	O	S	0	0	0
			10247	6499	1792	1902	54			
1	M	1387	Total	C	N	O	S	0	0	0
			10269	6512	1796	1907	54			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	1070	Total	C	N	O	S	0	0	0
			8153	5184	1417	1506	46			
2	N	1074	Total	C	N	O	S	0	0	0
			8190	5208	1426	1510	46			

- Molecule 3 is a protein called RNA polymerase II third largest subunit B44, part of central core.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	265	Total	C	N	O	S	0	0	0
			1863	1188	310	357	8			
3	O	265	Total	C	N	O	S	0	0	0
			1863	1188	310	357	8			

- Molecule 4 is a protein called RNA polymerase II subunit B32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	159	Total	C	N	O	S	0	0	0
			1082	695	185	200	2			
4	P	164	Total	C	N	O	S	0	0	0
			1113	712	191	208	2			

- Molecule 5 is a protein called RNA polymerase subunit ABC27, common to RNA polymerases I, II, and III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	214	Total	C	N	O	S	0	0	0
			1638	1045	288	297	8			
5	Q	214	Total	C	N	O	S	0	0	0
			1638	1045	288	297	8			

- Molecule 6 is a protein called RNA polymerase subunit ABC23, common to RNA polymerases I, II, and III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	84	Total	C	N	O	S	0	0	0
			637	406	109	119	3			
6	R	84	Total	C	N	O	S	0	0	0
			637	406	109	119	3			

- Molecule 7 is a protein called RNA polymerase II subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	171	Total	C	N	O	S	0	0	0
			1187	775	192	217	3			
7	S	171	Total	C	N	O	S	0	0	0
			1187	775	192	217	3			

- Molecule 8 is a protein called RNA polymerase subunit ABC14.5, common to RNA polymerases I, II, and III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	130	Total	C	N	O	S	0	0	0
			959	613	154	189	3			
8	T	131	Total	C	N	O	S	0	0	0
			965	616	155	191	3			

- Molecule 9 is a protein called DNA-directed RNA polymerase subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	I	113	Total	C	N	O	S	0	0	0
			854	535	150	158	11			
9	U	113	Total	C	N	O	S	0	0	0
			854	535	150	158	11			

- Molecule 10 is a protein called RNA polymerase subunit ABC10-beta, common to RNA polymerases I, II, and III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	J	62	Total	C	N	O	S	0	0	0
			487	320	85	76	6			
10	V	62	Total	C	N	O	S	0	0	0
			487	320	85	76	6			

- Molecule 11 is a protein called RNA polymerase II subunit B12.5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	K	114	Total	C	N	O	S	0	0	0
			832	543	139	148	2			
11	W	114	Total	C	N	O	S	0	0	0
			832	543	139	148	2			

- Molecule 12 is a protein called RNA polymerase subunit, found in RNA polymerase complexes I, II, and III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	L	46	Total	C	N	O	S	0	0	0
			319	196	64	55	4			
12	X	46	Total	C	N	O	S	0	0	0
			319	196	64	55	4			

- Molecule 13 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
13	A	2	Total	Zn	0	0
			2	2		
13	B	1	Total	Zn	0	0
			1	1		
13	C	1	Total	Zn	0	0
			1	1		
13	I	2	Total	Zn	0	0
			2	2		
13	J	1	Total	Zn	0	0
			1	1		
13	L	1	Total	Zn	0	0
			1	1		
13	M	2	Total	Zn	0	0
			2	2		
13	N	1	Total	Zn	0	0
			1	1		
13	O	1	Total	Zn	0	0
			1	1		

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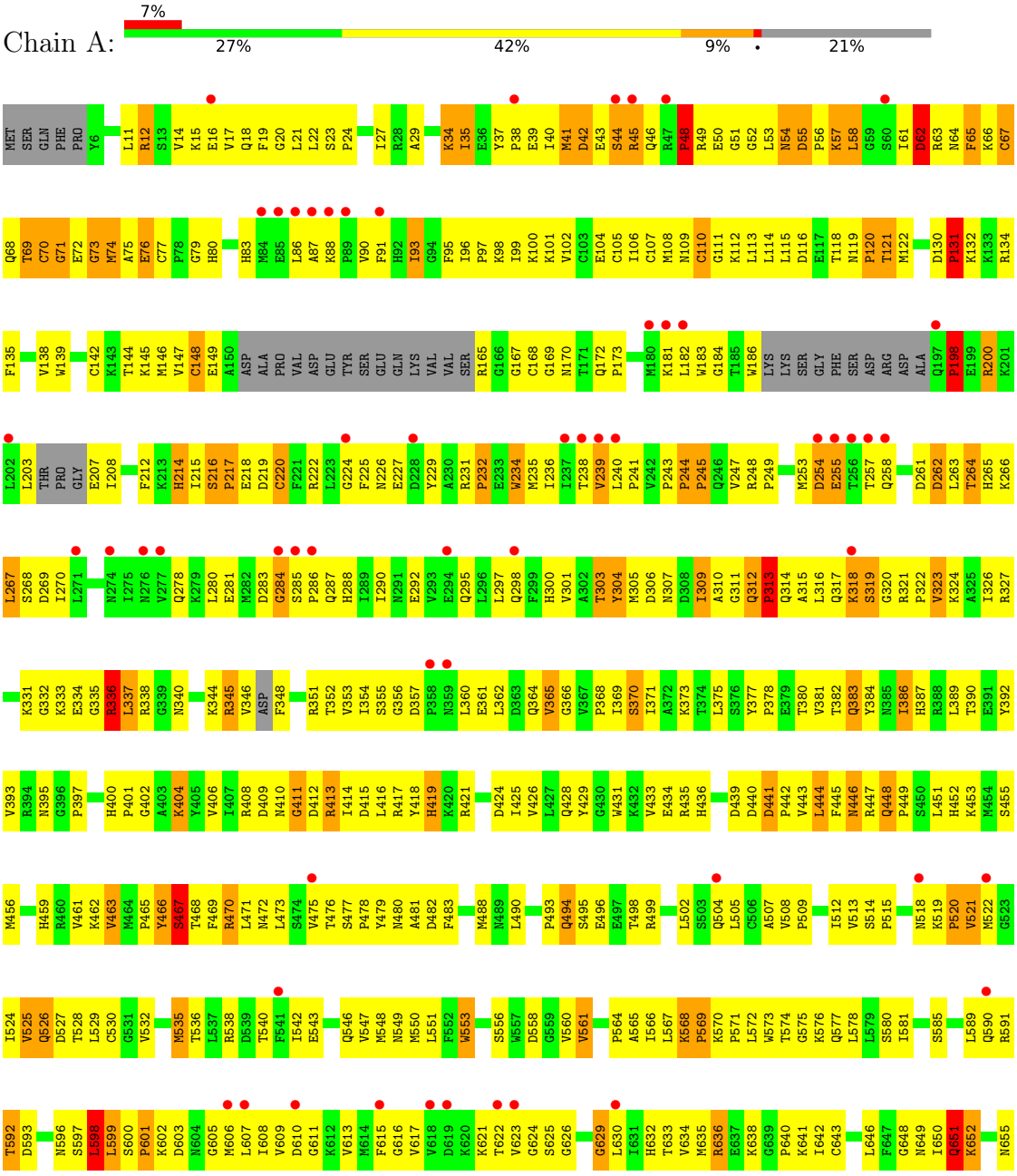
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
13	U	2	Total Zn 2 2	0	0
13	V	1	Total Zn 1 1	0	0
13	X	1	Total Zn 1 1	0	0

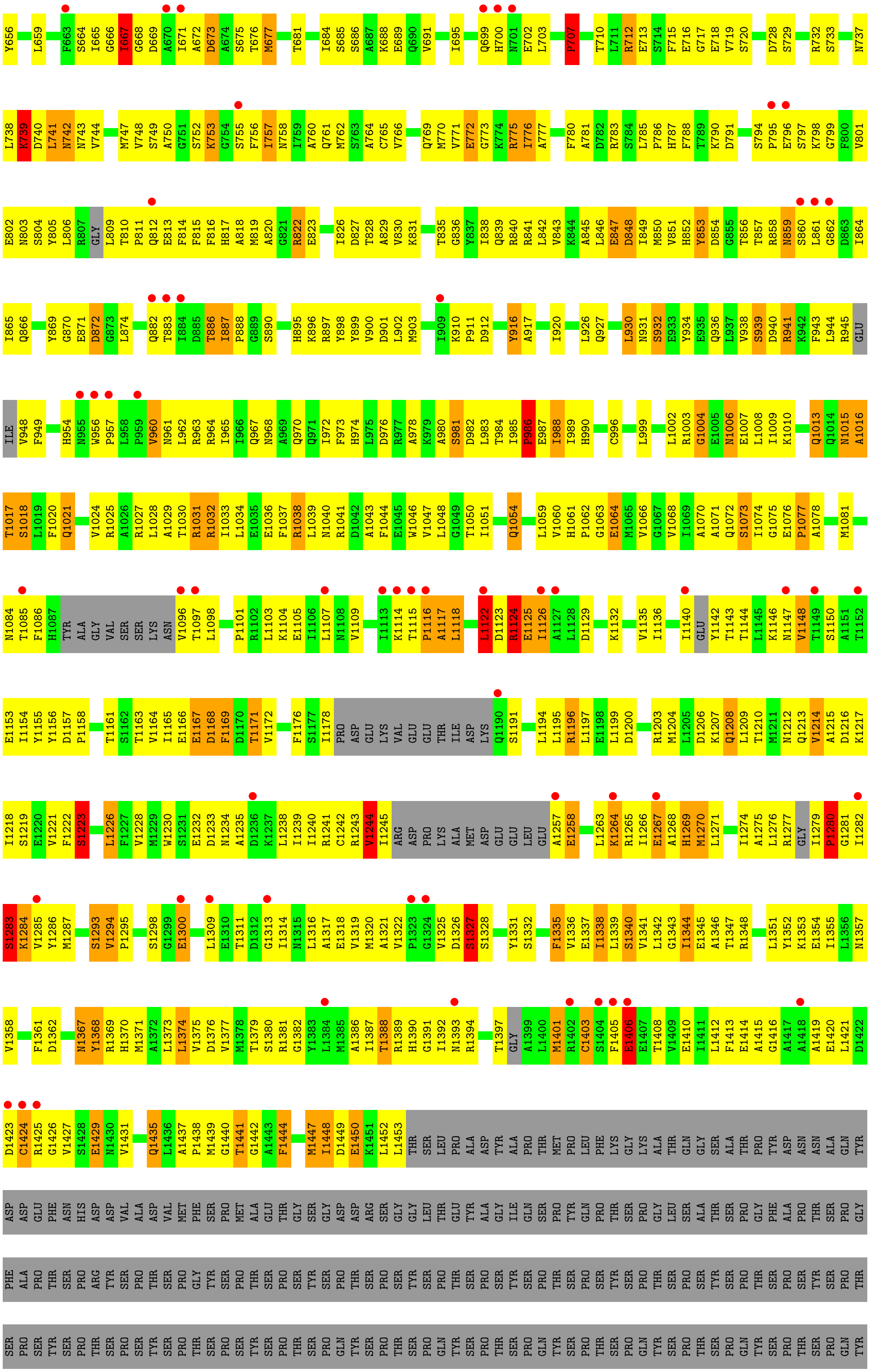
3 Residue-property plots (i)

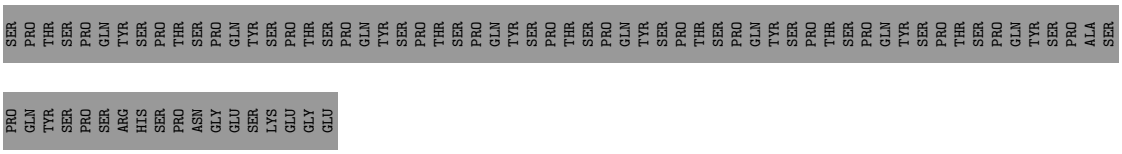
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: DNA-directed RNA polymerase subunit

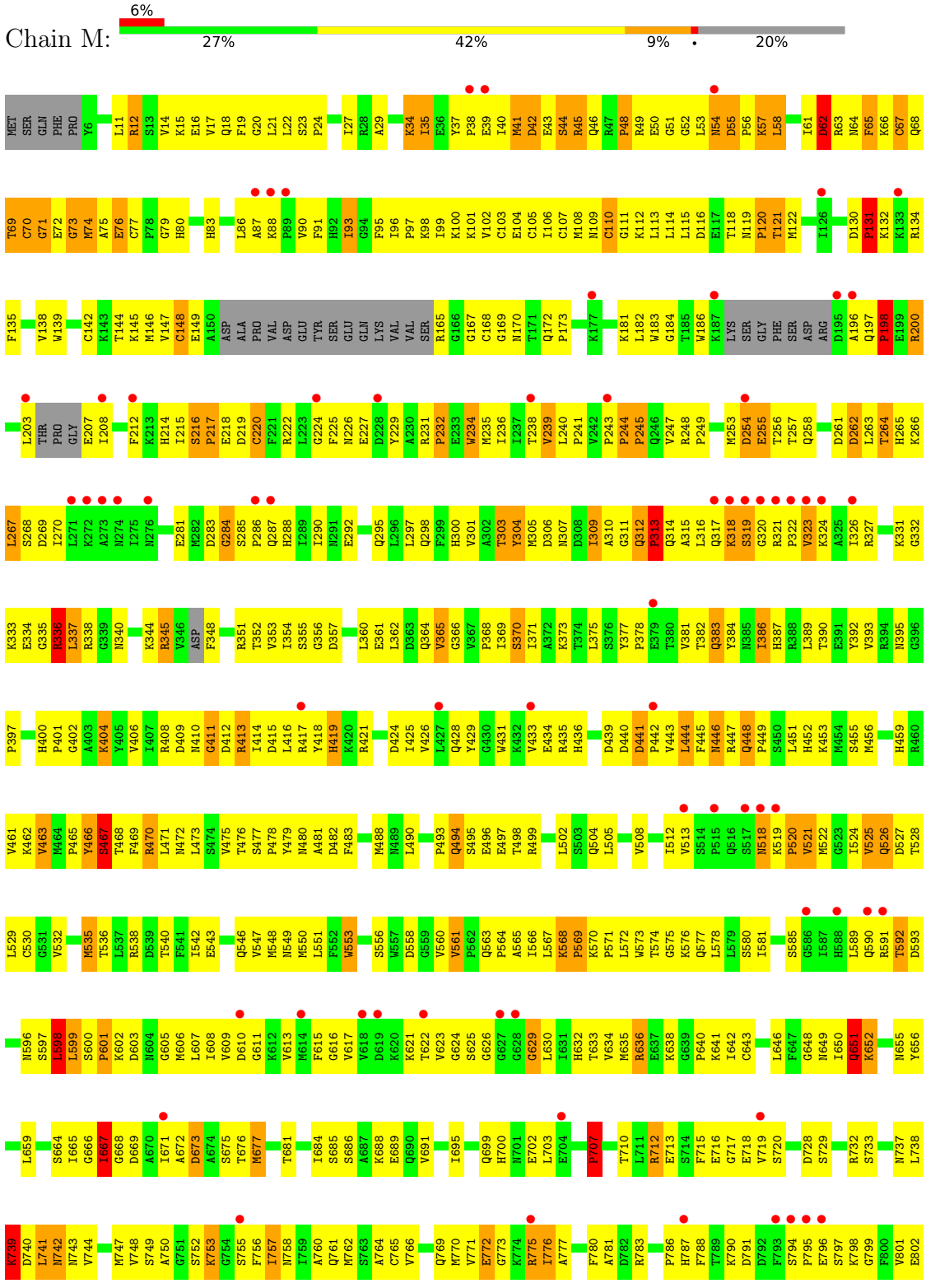
Chain A:

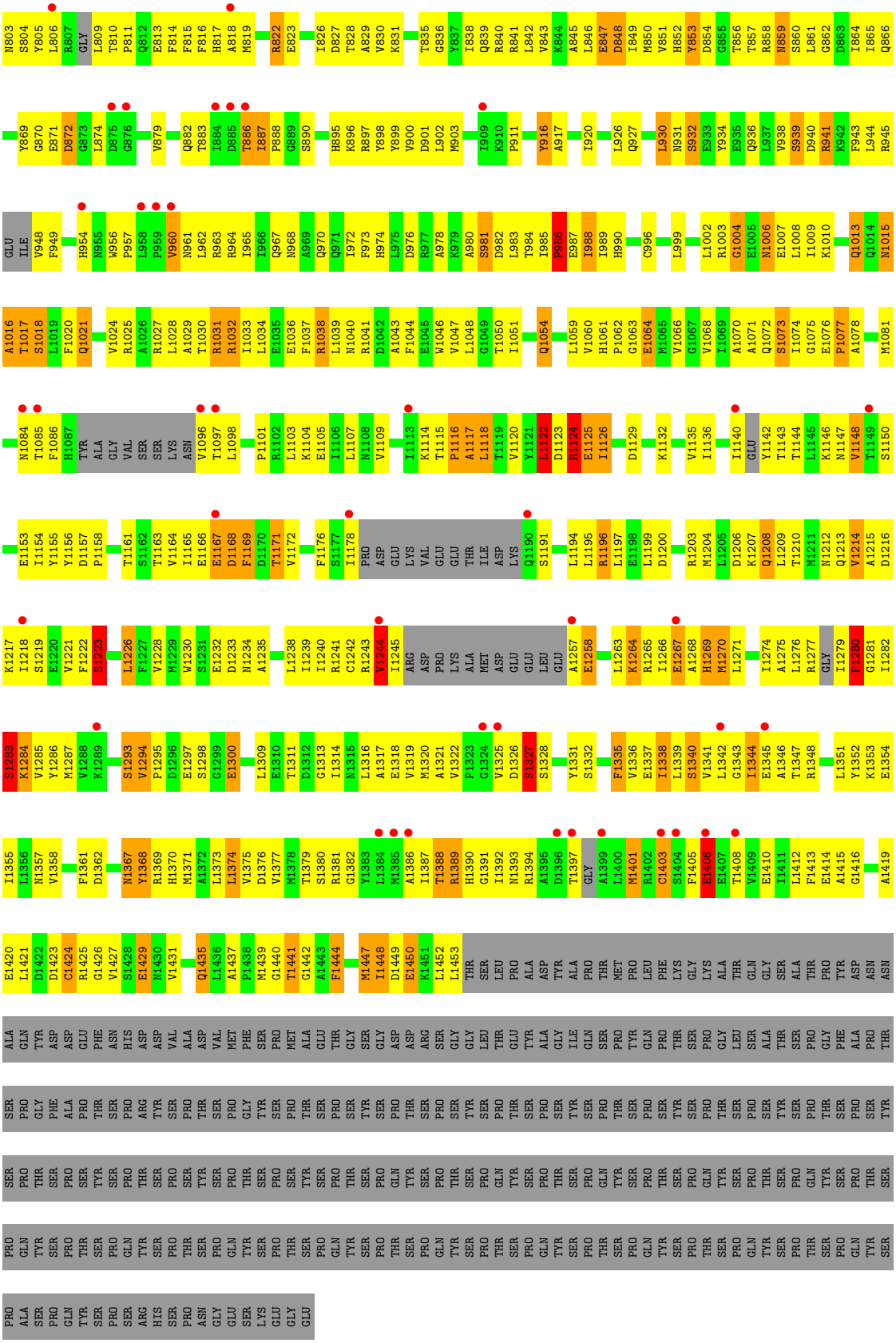



Y656 L659 F663 S664 I665 G666 I667 G668 D669 A670 I671 A672 D673 A674 S675 T676 M677 T681 I684 S685 S686 A687 K688 E689 Q690 V691 I695 Q699 H700 N701 E702 L703 P707 T710 L711 R712 E713 S714 F715 E716 G717 E718 V719 S720 D728 S729 R732 S733 N737
L738 K739 D740 L741 N742 N743 V744 M747 V748 S749 A750 G751 S752 K753 G754 S755 F756 I757 N758 I759 A760 Q761 M762 S763 A764 C765 V766 Q769 M770 V771 E772 G773 K774 R775 I776 A777 F780 A781 D782 R783 S784 L785 P786 H787 F788 T789 K790 D791 S794 P795 E796 S797 K798 G799 F800 V801
E802 N803 S804 Y805 L806 R807 GLY L809 T810 P811 Q812 E813 F814 F815 F816 H817 A818 M819 A820 G821 R822 E823 I826 D827 T828 A829 V830 K831 T835 G836 Y837 I838 Q839 R840 R841 L842 V843 K844 A845 L846 E847 D848 I849 M850 V851 H852 Y853 D854 G855 T856 T857 R858 N859 S860 L861 G862 D863 I864
I865 Q866 Y869 G870 E871 D872 G873 L874 Q882 T883 I884 D885 T886 I887 P888 G889 S890 H895 K896 R897 Y898 Y899 V900 D901 L902 M903 I909 K910 P911 D912 Y916 A917 I920 L926 Q927 L930 N931 S932 E933 Y934 E935 Q936 L937 V938 S939 D940 R941 K942 F943 L944 R945 GLU
ILE V948 F949 H954 N955 W956 P957 L958 P959 V960 N961 L962 R963 R964 I965 I966 Q967 N968 A969 Q970 Q971 I972 F973 H974 L975 D976 R977 A978 K979 A980 S981 D982 L983 T984 I985 P986 E987 I988 I989 H990 C996 L999 L1002 R1003 G1004 E1005 N1006 E1007 L1008 I1009 K1010 Q1013 Q1014 N1015 A1016
T1017 S1018 L1019 F1020 Q1021 V1024 R1025 A1026 R1027 L1028 A1029 T1030 R1031 R1032 I1033 L1034 E1035 E1036 F1037 R1038 L1039 N1040 R1041 D1042 A1043 F1044 E1045 W1046 V1047 L1048 G1049 T1050 I1051 Q1054 L1059 V1060 H1061 P1062 G1063 E1064 M1065 V1066 G1067 V1068 I1069 A1070 A1071 Q1072 S1073 I1074 G1075 E1076 P1077 A1078 M1081
N1084 T1085 F1086 H1087 TYR ALA GLY VAL SER SER LYS ASN V1096 T1097 L1098 P1101 R1102 L1103 K1104 E1105 I1106 L1107 N1108 V1109 I1113 K1114 T1115 P1116 A1117 L1118 L1122 D1123 R1124 E1125 I1126 A1127 L1128 D1129 K1132 V1135 I1136 I1140 GLU Y1142 T1143 T1144 L1145 K1146 N1147 V1148 T1149 S1150 A1151 T1152
E1153 I1154 Y1155 Y1156 D1157 P1158 T1161 S1162 T1163 V1164 I1165 E1166 E1167 D1168 F1169 D1170 T1171 V1172 F1176 S1177 I1178 PRO ASP GLU LYS VAL GLU GLU THR ILE ASP LYS Q1190 S1191 L1194 L1195 R1196 L1197 E1198 L1199 D1200 R1203 M1204 L1205 D1206 K1207 Q1208 L1209 T1210 M1211 N1212 Q1213 V1214 A1215 D1216 K1217
I1218 S1219 E1220 V1221 F1222 S1223 L1226 F1227 V1228 M1229 W1230 S1231 E1232 D1233 N1234 A1235 D1236 K1237 L1238 I1239 I1240 R1241 C1242 R1243 V1244 I1245 ARG ASP PRO LYS ALA MET ASP GLU GLU LEU GLU A1257 E1258 L1263 K1264 R1265 I1266 E1267 A1268 H1269 M1270 L1271 I1274 A1275 L1276 R1277 GLY I1279 P1280 G1281 I1282
S1283 K1284 V1285 Y1286 M1287 S1293 V1294 P1295 S1298 G1299 E1300 L1309 E1310 T1311 D1312 G1313 I1314 N1315 L1316 A1317 E1318 V1319 M1320 A1321 V1322 P1323 G1324 V1325 D1326 S1327 S1328 Y1331 S1332 F1335 V1336 E1337 I1338 L1339 S1340 V1341 L1342 G1343 I1344 E1345 A1346 T1347 R1348 L1351 Y1352 K1353 E1354 I1355 L1356 N1357
V1358 F1361 D1362 N1367 Y1368 R1369 H1370 M1371 A1372 L1373 L1374 V1375 D1376 V1377 M1378 T1379 S1380 R1381 G1382 Y1383 L1384 M1385 A1386 I1387 T1388 R1389 H1390 G1391 I1392 N1393 R1394 T1397 GLY A1399 L1400 M1401 R1402 C1403 S1404 F1405 E1406 E1407 T1408 V1409 E1410 I1411 L1412 F1413 E1414 A1415 G1416 A1417 A1418 A1419 E1420 L1421 D1422
D1423 C1424 R1425 G1426 V1427 S1428 E1429 N1430 V1431 Q1435 L1436 A1437 P1438 M1439 G1440 T1441 G1442 A1443 F1444 M1447 I1448 D1449 E1450 K1451 L1452 L1453 THR SER LEU PRO ALA ASP TYR ALA PRO THR MET PRO LEU PHE LYS GLY LYS ALA THR GLN GLY SER ALA THR PRO TYR ASP ASN ASN ALA GLN TYR
ASP ASP GLU PHE ASN HIS ASP ASP VAL ALA ASP VAL MET PHE SER PRO MET ALA GLU THR GLY SER GLY ASP ASP ARG SER GLY GLY LEU THR GLU TYR ALA GLY ILE GLN SER PRO TYR GLN PRO THR SER PRO GLY LEU SER ALA THR SER PRO GLY PHE ALA PRO THR SER PRO GLY
PHE ALA PRO THR SER PRO ARG TYR SER PRO THR SER PRO GLY TYR SER PRO THR SER PRO SER TYR SER PRO THR SER PRO SER TYR SER PRO THR SER PRO SER TYR SER PRO THR SER PRO SER TYR SER PRO THR SER PRO SER TYR SER PRO THR
SER PRO SER TYR SER PRO THR SER PRO SER TYR SER PRO THR SER PRO GLN TYR SER PRO THR SER PRO GLN TYR SER PRO THR SER PRO GLN TYR SER PRO THR SER PRO GLN TYR SER PRO THR SER PRO GLN TYR SER PRO THR SER PRO GLN TYR



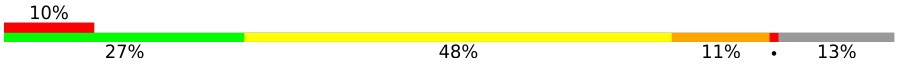
• Molecule 1: DNA-directed RNA polymerase subunit

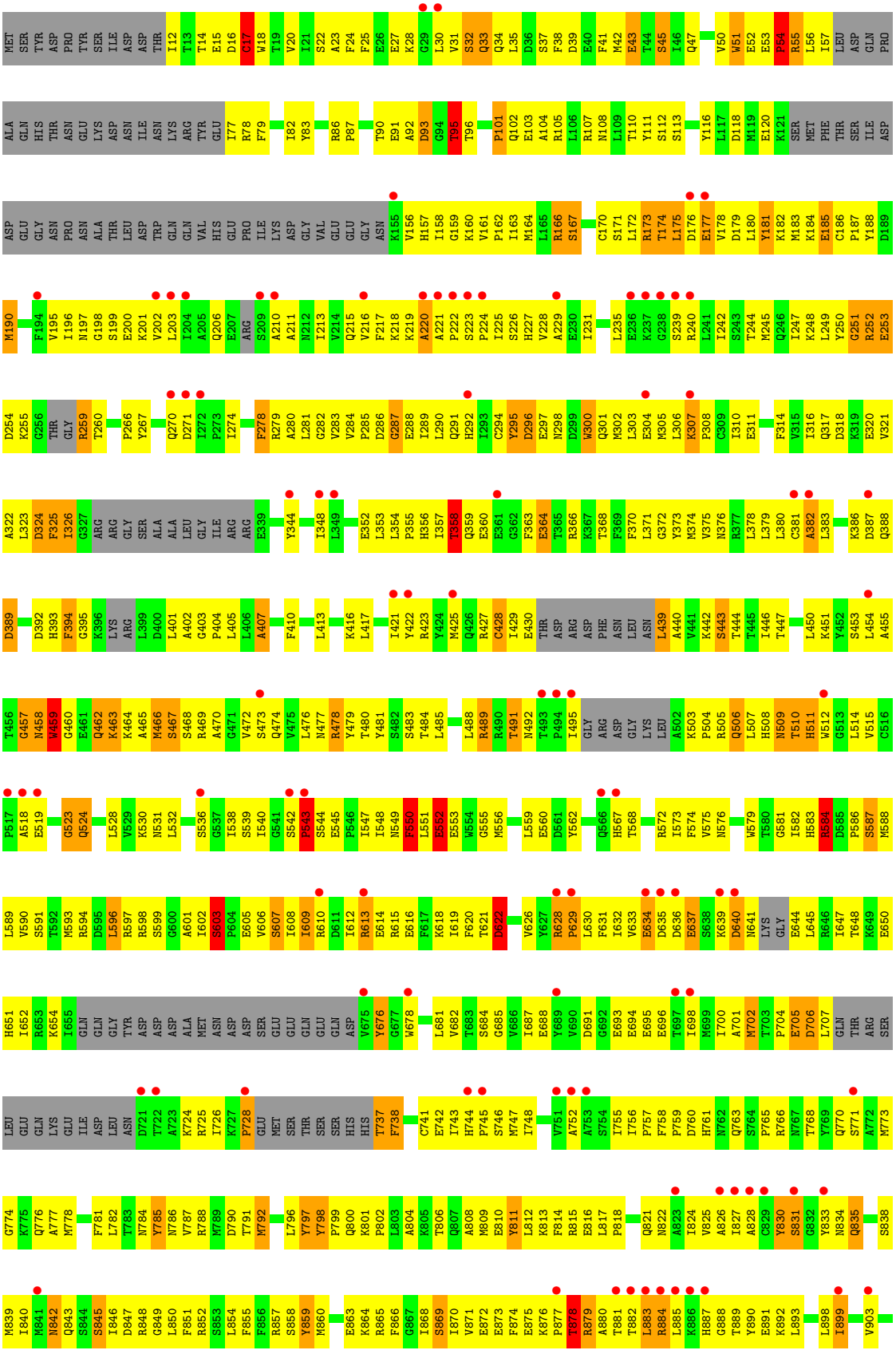


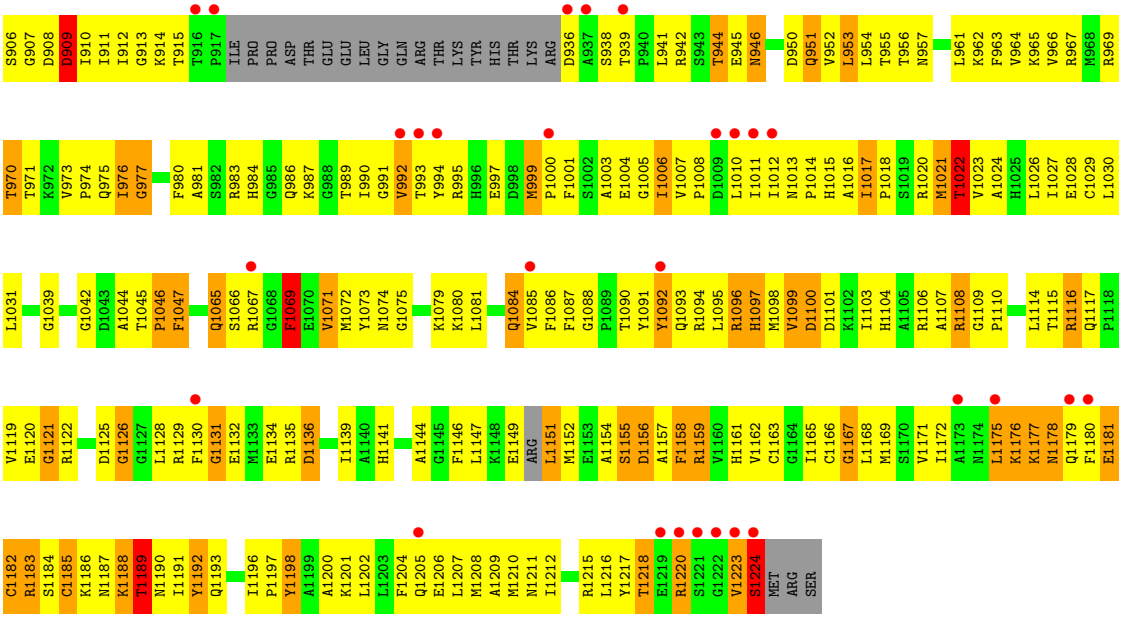


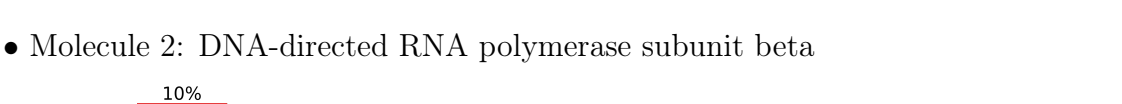
• Molecule 2: DNA-directed RNA polymerase subunit beta

Chain B:



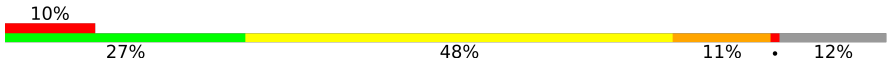


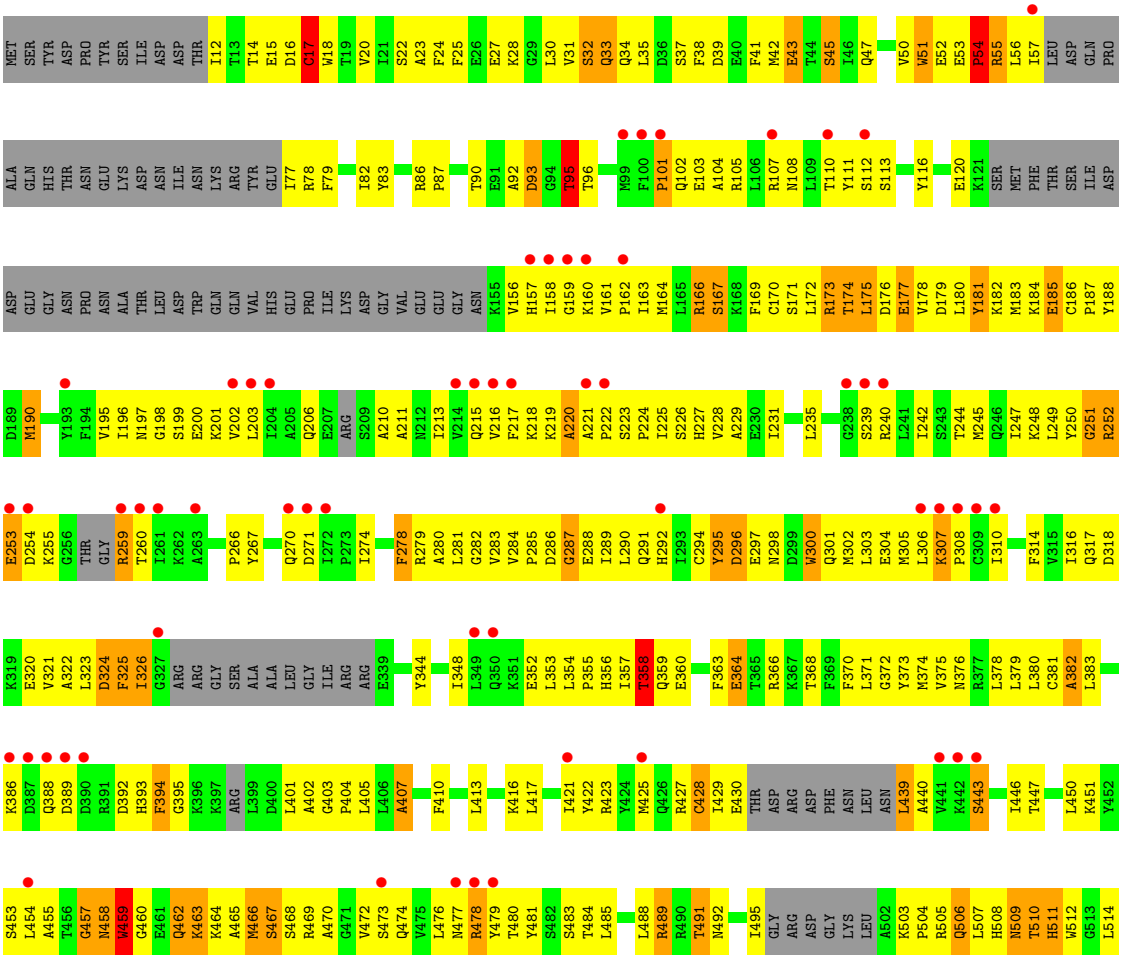


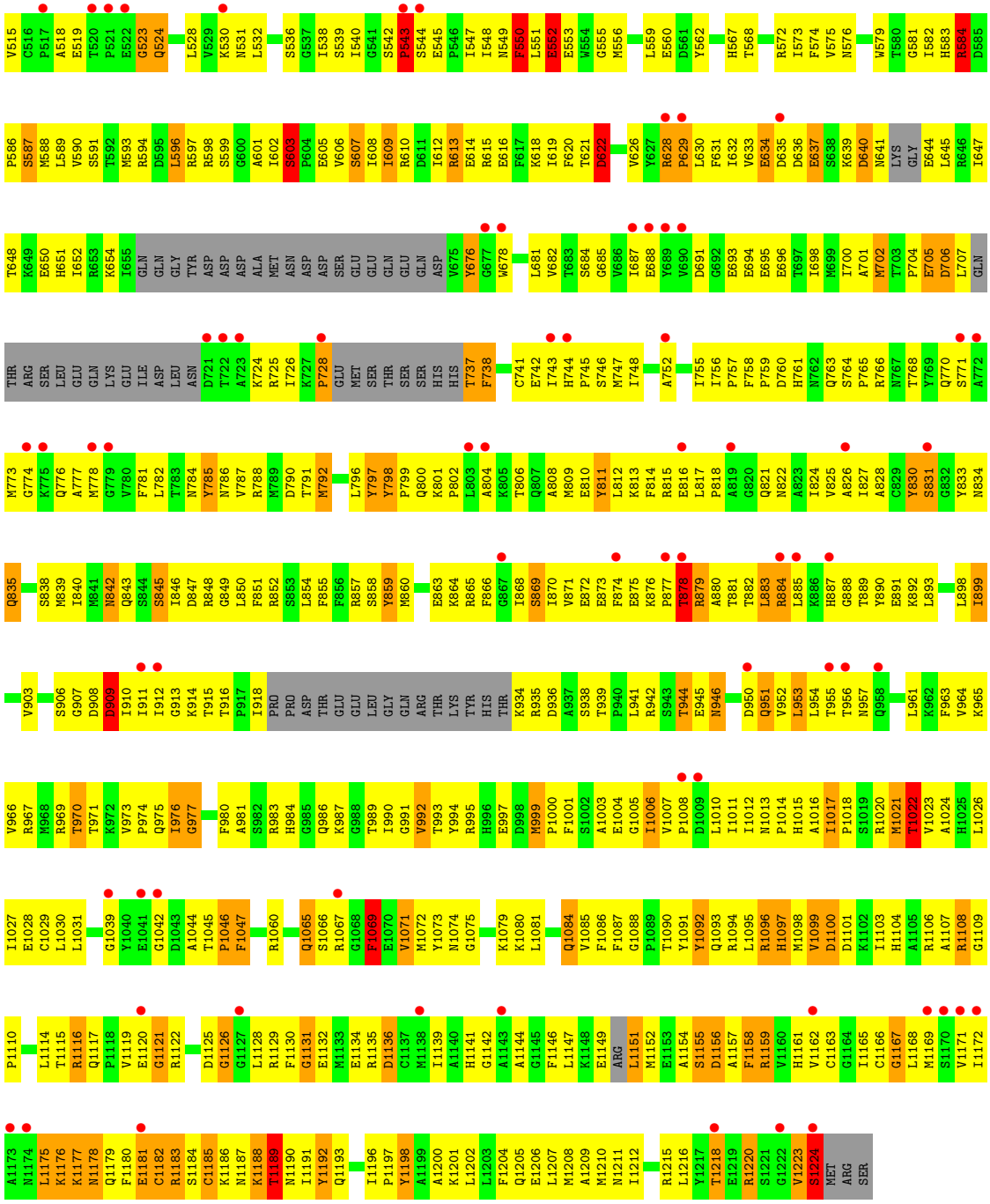


• Molecule 2: DNA-directed RNA polymerase subunit beta

Chain N:

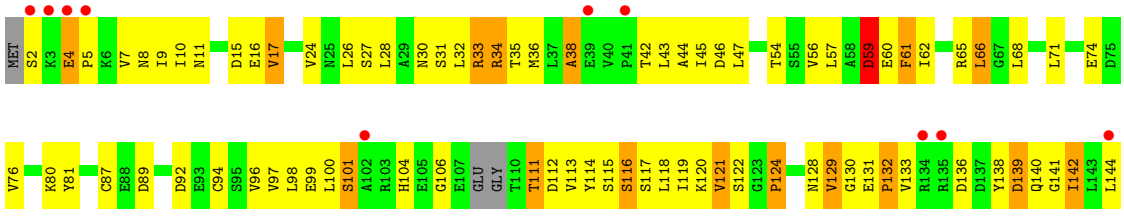


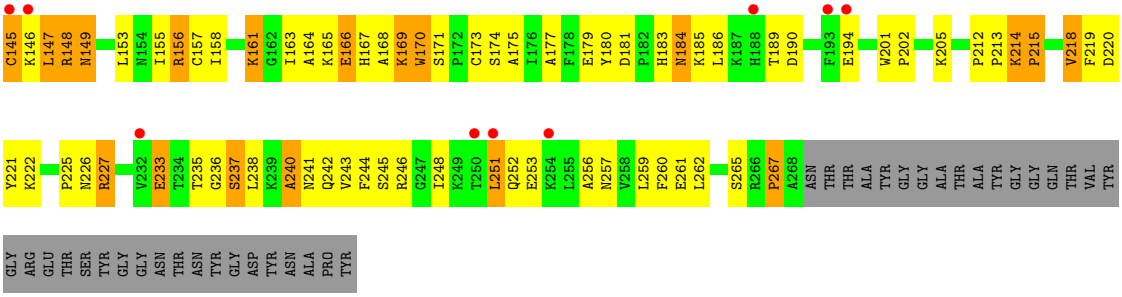




• Molecule 3: RNA polymerase II third largest subunit B44, part of central core

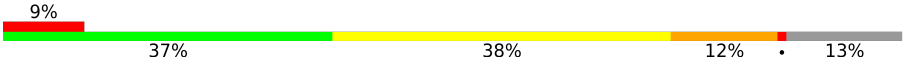
Chain C:

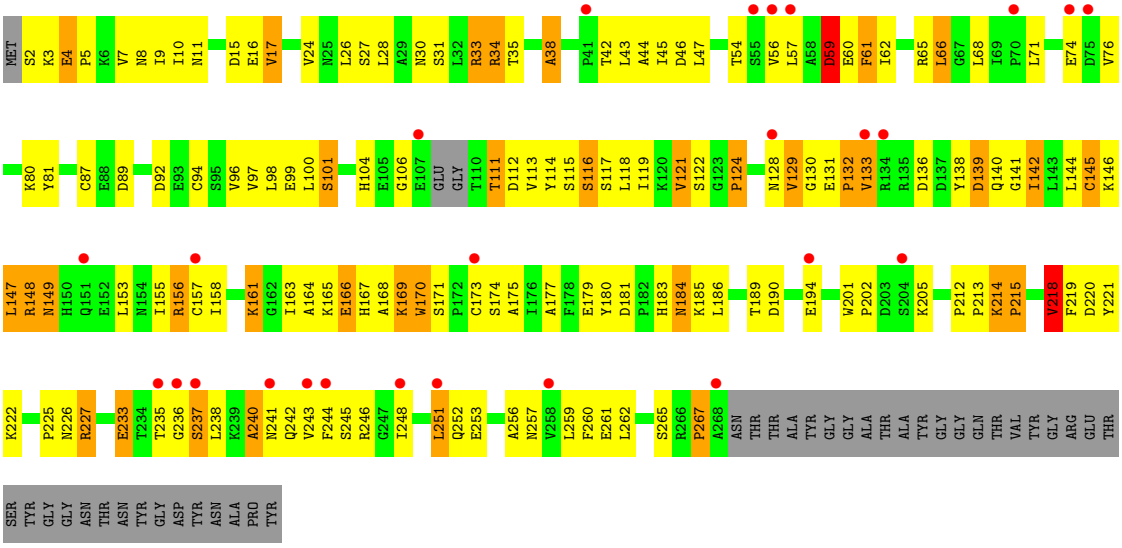




• Molecule 3: RNA polymerase II third largest subunit B44, part of central core

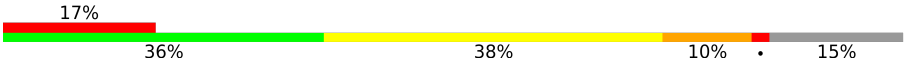
Chain O:

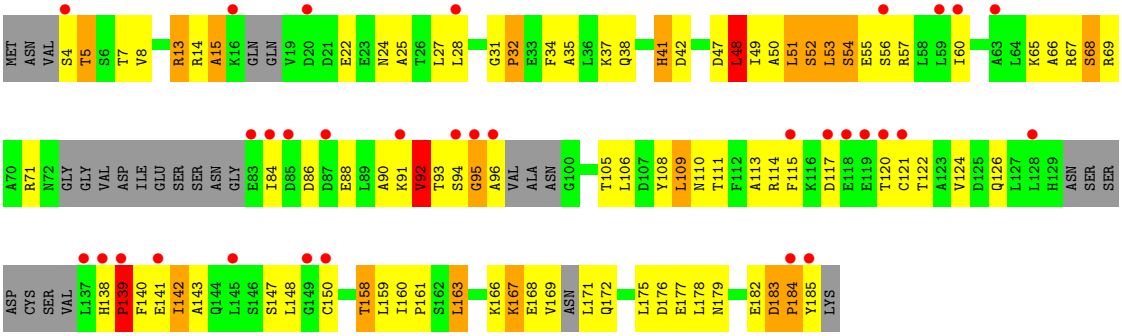




• Molecule 4: RNA polymerase II subunit B32

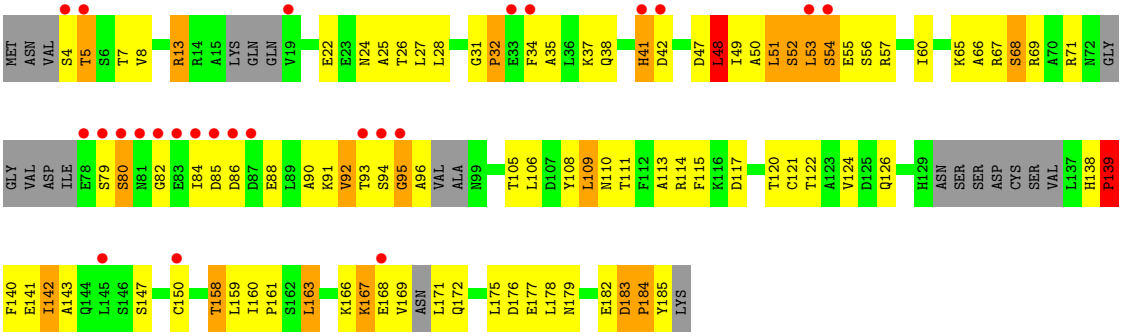
Chain D:





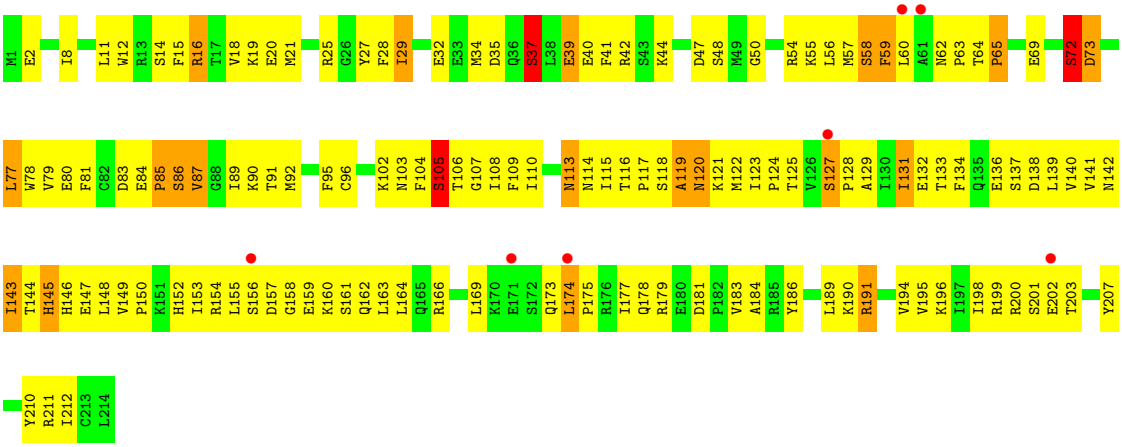
• Molecule 4: RNA polymerase II subunit B32

Chain P:



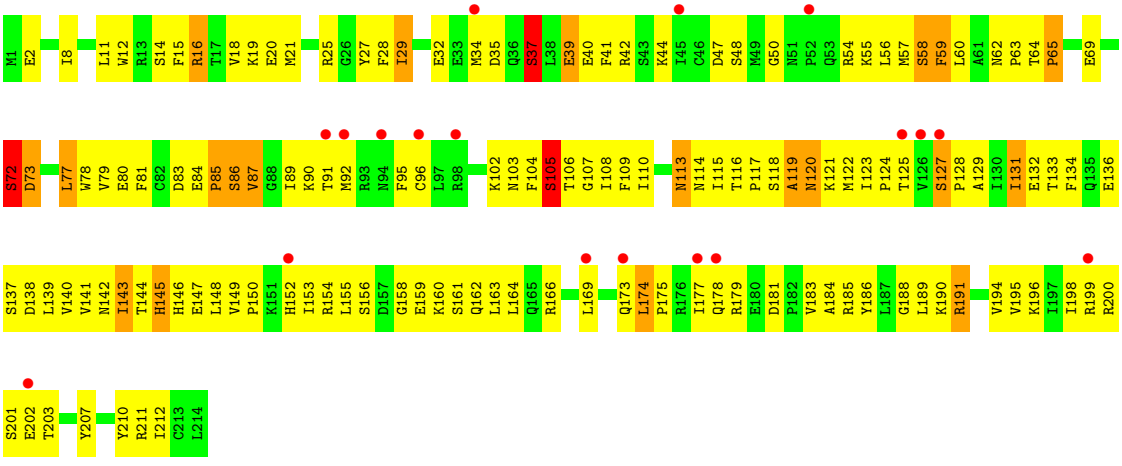
• Molecule 5: RNA polymerase subunit ABC27, common to RNA polymerases I, II, and III

Chain E:



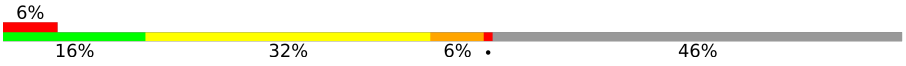
• Molecule 5: RNA polymerase subunit ABC27, common to RNA polymerases I, II, and III

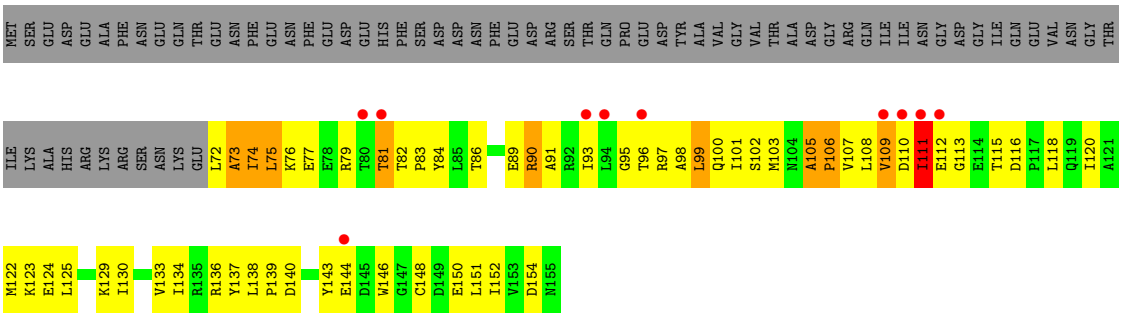
Chain Q:



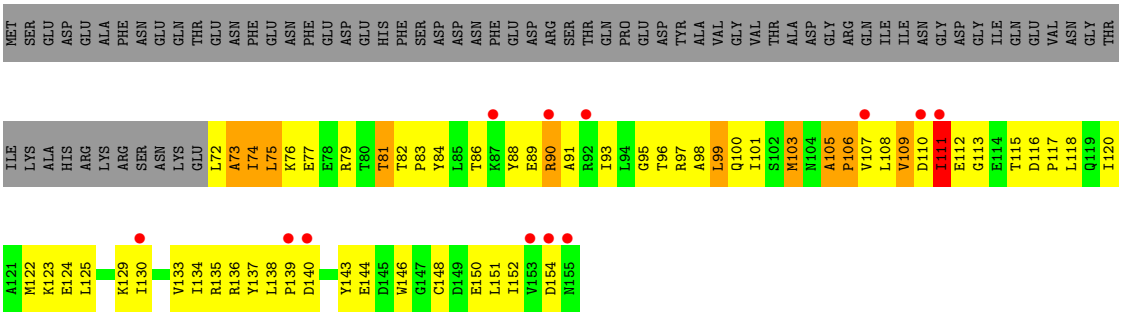
• Molecule 6: RNA polymerase subunit ABC23, common to RNA polymerases I, II, and III

Chain F:

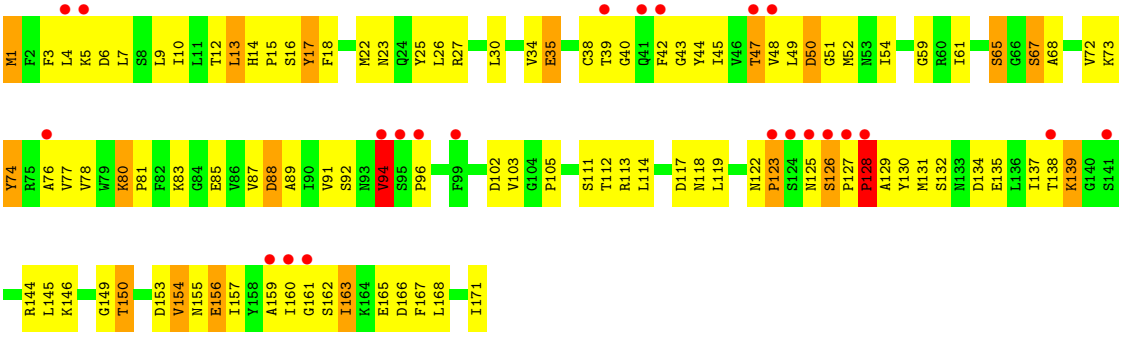




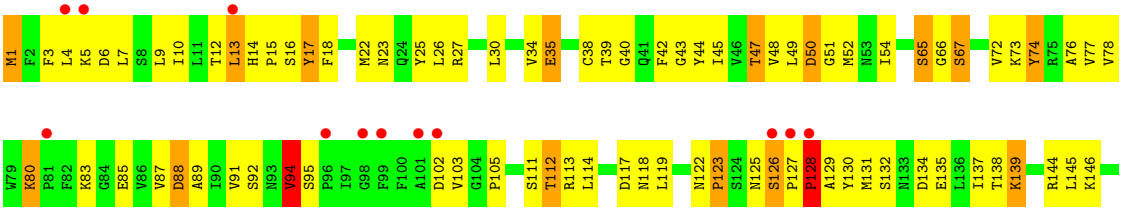
• Molecule 6: RNA polymerase subunit ABC23, common to RNA polymerases I, II, and III

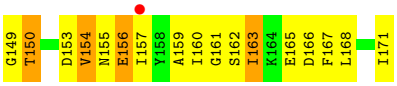


• Molecule 7: RNA polymerase II subunit

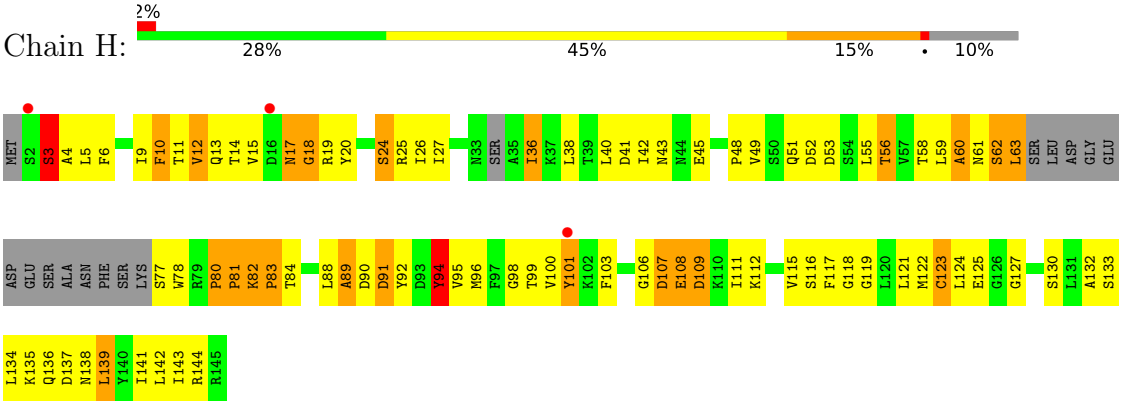


• Molecule 7: RNA polymerase II subunit

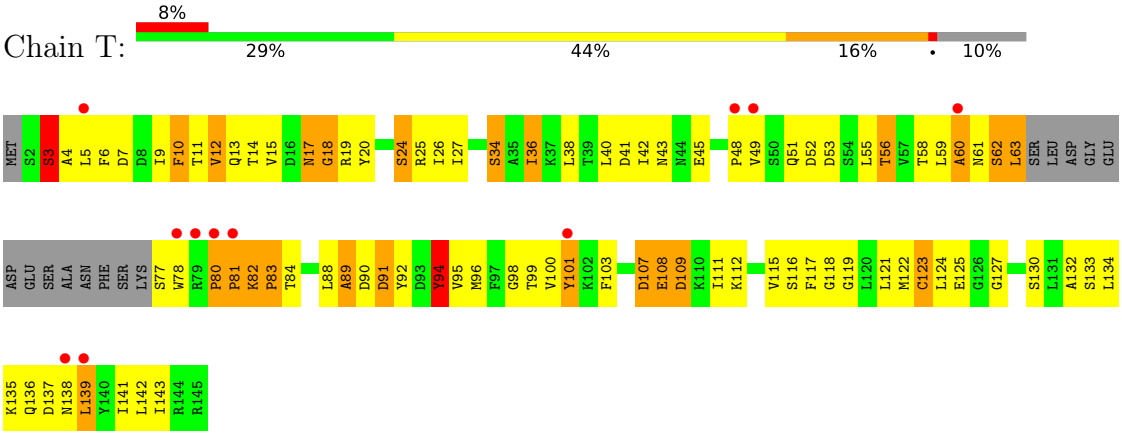




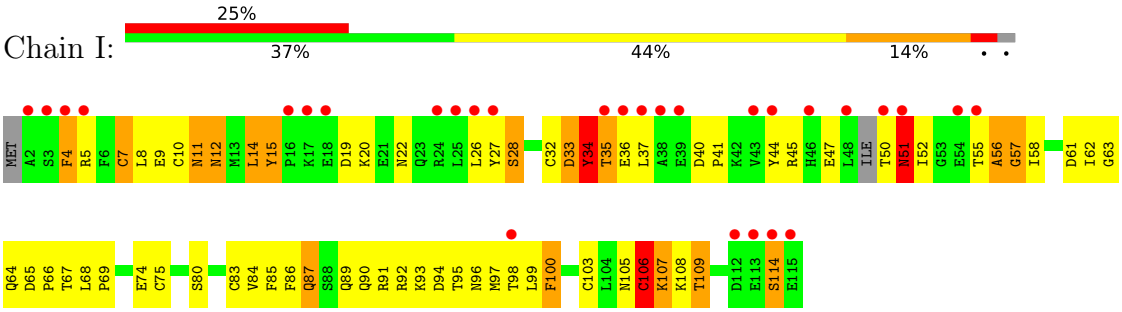
• Molecule 8: RNA polymerase subunit ABC14.5, common to RNA polymerases I, II, and III



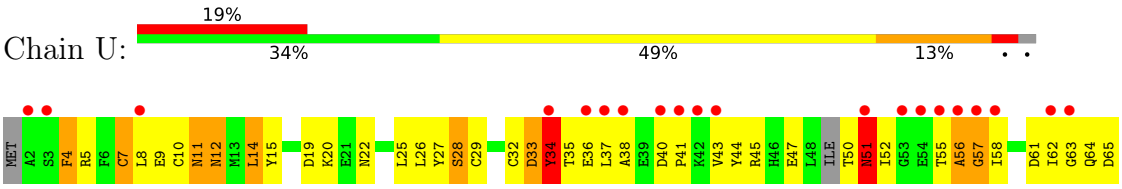
• Molecule 8: RNA polymerase subunit ABC14.5, common to RNA polymerases I, II, and III



• Molecule 9: DNA-directed RNA polymerase subunit

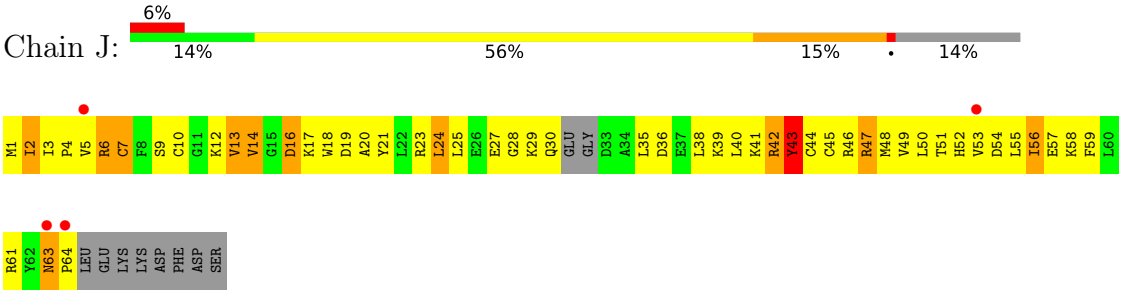


• Molecule 9: DNA-directed RNA polymerase subunit



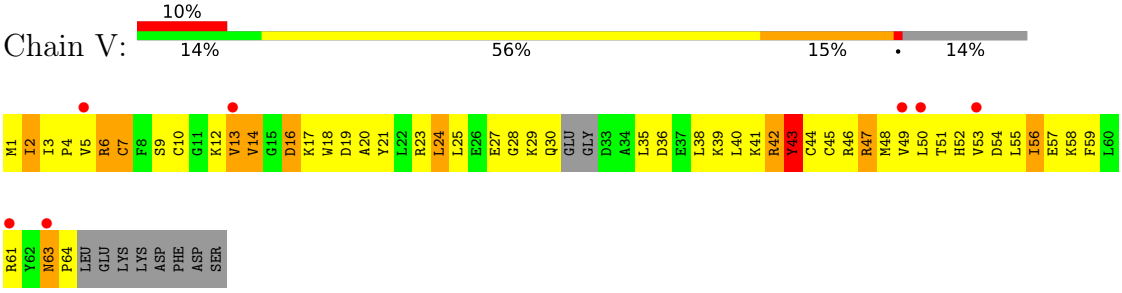
• Molecule 10: RNA polymerase subunit ABC10-beta, common to RNA polymerases I, II, and III

Chain J:



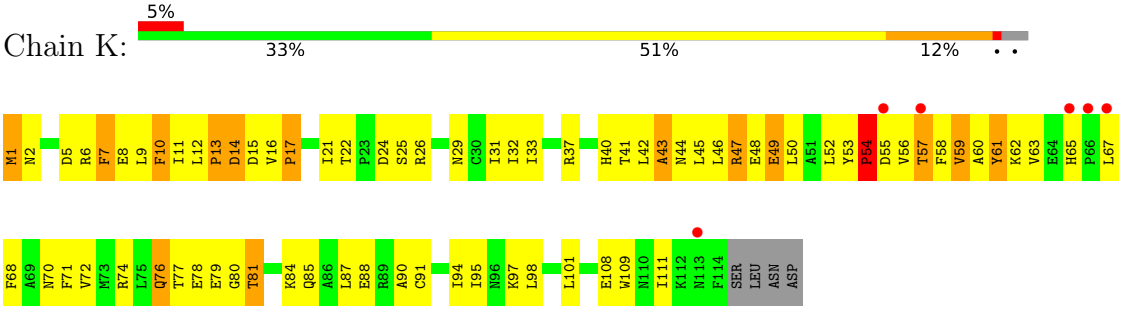
• Molecule 10: RNA polymerase subunit ABC10-beta, common to RNA polymerases I, II, and III

Chain V:



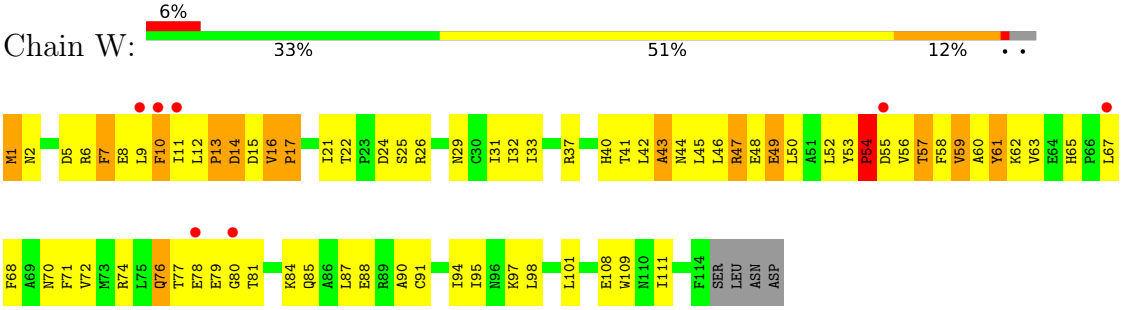
• Molecule 11: RNA polymerase II subunit B12.5

Chain K:



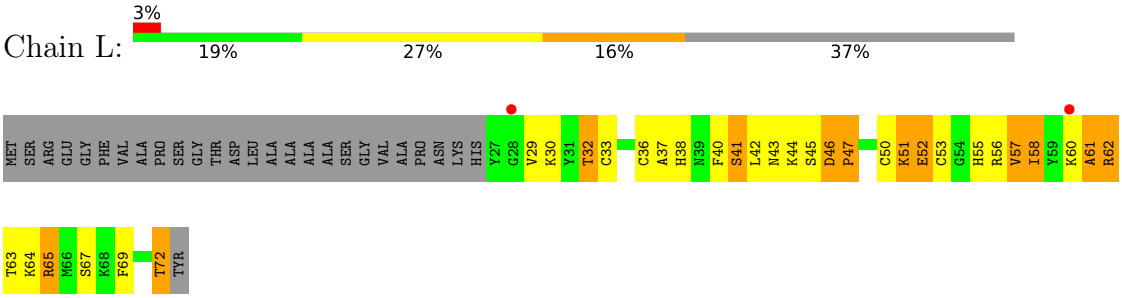
• Molecule 11: RNA polymerase II subunit B12.5

Chain W:



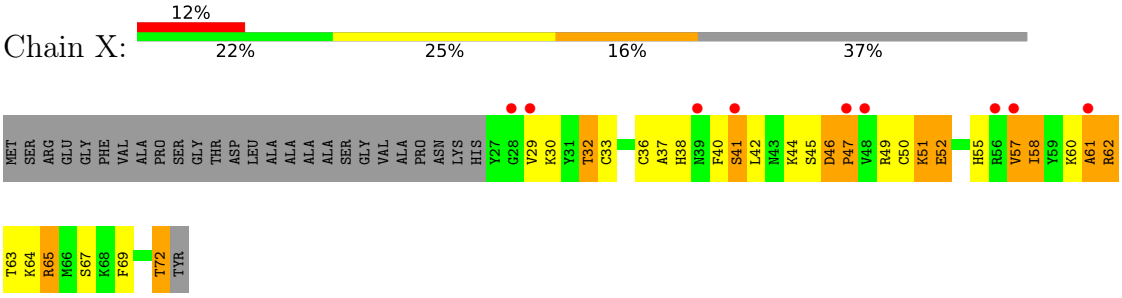
• Molecule 12: RNA polymerase subunit, found in RNA polymerase complexes I, II, and III

Chain L:



• Molecule 12: RNA polymerase subunit, found in RNA polymerase complexes I, II, and III

Chain X:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	155.05Å 160.35Å 254.35Å 90.00° 105.43° 90.00°	Depositor
Resolution (Å)	49.82 – 7.80 49.82 – 7.73	Depositor EDS
% Data completeness (in resolution range)	99.7 (49.82-7.80) 80.4 (49.82-7.73)	Depositor EDS
R_{merge}	0.38	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.13 (at 7.37Å)	Xtriage
Refinement program	PHENIX dev_2614	Depositor
R, R_{free}	0.353 , 0.357 0.354 , 0.359	Depositor DCC
R_{free} test set	1389 reflections (9.95%)	wwPDB-VP
Wilson B-factor (Å^2)	174.0	Xtriage
Anisotropy	0.345	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 329.8	EDS
L-test for twinning[2]	$< \|L\| > = 0.41$, $< L^2 > = 0.24$	Xtriage
Estimated twinning fraction	0.136 for h,-k,-h-l	Xtriage
F_o,F_c correlation	0.58	EDS
Total number of atoms	56628	wwPDB-VP
Average B, all atoms (Å^2)	186.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.35% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.68	28/10399 (0.3%)	0.81	17/14038 (0.1%)
1	M	0.68	27/10421 (0.3%)	0.81	19/14067 (0.1%)
2	B	0.69	15/8294 (0.2%)	0.77	4/11176 (0.0%)
2	N	0.69	15/8331 (0.2%)	0.77	4/11223 (0.0%)
3	C	0.70	6/1888 (0.3%)	0.83	8/2558 (0.3%)
3	O	0.70	6/1888 (0.3%)	0.83	8/2558 (0.3%)
4	D	0.84	5/1086 (0.5%)	0.76	4/1460 (0.3%)
4	P	0.92	7/1117 (0.6%)	0.76	4/1501 (0.3%)
5	E	0.73	7/1668 (0.4%)	0.69	4/2245 (0.2%)
5	Q	0.72	7/1668 (0.4%)	0.70	4/2245 (0.2%)
6	F	0.84	1/646 (0.2%)	0.82	2/873 (0.2%)
6	R	0.84	1/646 (0.2%)	0.82	2/873 (0.2%)
7	G	1.07	7/1207 (0.6%)	0.80	1/1629 (0.1%)
7	S	1.08	8/1207 (0.7%)	0.80	1/1629 (0.1%)
8	H	1.37	7/973 (0.7%)	0.75	2/1313 (0.2%)
8	T	1.38	8/980 (0.8%)	0.74	2/1324 (0.2%)
9	I	0.92	4/868 (0.5%)	0.70	0/1169
9	U	0.92	4/868 (0.5%)	0.70	0/1169
10	J	0.55	0/495	0.79	0/664
10	V	0.55	0/495	0.80	0/664
11	K	0.65	3/848 (0.4%)	0.85	5/1147 (0.4%)
11	W	0.65	2/848 (0.2%)	0.85	5/1147 (0.4%)
12	L	0.83	3/321 (0.9%)	0.96	2/425 (0.5%)
12	X	0.83	3/321 (0.9%)	0.96	2/425 (0.5%)
All	All	0.76	174/57483 (0.3%)	0.79	100/77522 (0.1%)

All (174) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	H	24	SER	CB-OG	30.78	1.82	1.42
8	T	24	SER	CB-OG	30.77	1.82	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	N	17	CYS	CB-SG	-23.57	1.42	1.82
2	B	17	CYS	CB-SG	-23.55	1.42	1.82
2	N	428	CYS	CB-SG	-22.62	1.43	1.82
2	B	428	CYS	CB-SG	-22.59	1.43	1.82
1	A	220	CYS	CB-SG	-19.28	1.49	1.82
1	M	220	CYS	CB-SG	-19.27	1.49	1.82
8	H	123	CYS	CB-SG	-18.26	1.51	1.82
7	S	150	THR	CB-OG1	18.25	1.79	1.43
7	G	150	THR	CB-OG1	18.20	1.79	1.43
8	T	123	CYS	CB-SG	-18.19	1.51	1.82
1	A	996	CYS	CB-SG	-18.00	1.51	1.82
1	M	996	CYS	CB-SG	-17.96	1.51	1.82
9	I	83	CYS	CB-SG	-17.82	1.51	1.82
9	U	83	CYS	CB-SG	-17.80	1.51	1.82
7	S	47	THR	CB-OG1	17.34	1.77	1.43
6	F	148	CYS	CB-SG	-17.32	1.52	1.82
2	B	51	TRP	CB-CG	17.32	1.81	1.50
6	R	148	CYS	CB-SG	-17.31	1.52	1.82
4	P	121	CYS	CB-SG	-17.29	1.52	1.82
7	G	47	THR	CB-OG1	17.27	1.77	1.43
2	N	51	TRP	CB-CG	17.26	1.81	1.50
5	Q	96	CYS	CB-SG	-17.25	1.52	1.82
4	D	121	CYS	CB-SG	-17.23	1.52	1.82
5	E	96	CYS	CB-SG	-17.17	1.53	1.82
1	A	239	VAL	CB-CG1	12.88	1.79	1.52
1	M	239	VAL	CB-CG2	12.86	1.79	1.52
7	S	94	VAL	CB-CG1	12.35	1.78	1.52
7	G	94	VAL	CB-CG2	12.35	1.78	1.52
1	A	521	VAL	CB-CG1	11.10	1.76	1.52
1	M	521	VAL	CB-CG1	11.01	1.75	1.52
3	C	116	SER	CB-OG	9.99	1.55	1.42
3	O	116	SER	CB-OG	9.97	1.55	1.42
1	A	1021	GLN	CB-CG	9.95	1.79	1.52
1	M	1021	GLN	CB-CG	9.92	1.79	1.52
8	H	36	ILE	CB-CG1	9.84	1.81	1.54
2	N	599	SER	CB-OG	9.82	1.55	1.42
8	T	36	ILE	CB-CG1	9.81	1.81	1.54
2	B	599	SER	CB-OG	9.69	1.54	1.42
1	M	939	SER	CB-OG	9.32	1.54	1.42
1	A	939	SER	CB-OG	9.29	1.54	1.42
1	A	686	SER	CB-OG	9.09	1.54	1.42
4	P	80	SER	CB-OG	9.07	1.54	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	686	SER	CB-OG	9.02	1.53	1.42
4	D	68	SER	CB-OG	8.87	1.53	1.42
4	P	68	SER	CB-OG	8.87	1.53	1.42
4	P	79	SER	CB-OG	8.77	1.53	1.42
1	M	932	SER	CB-OG	8.64	1.53	1.42
1	A	932	SER	CB-OG	8.63	1.53	1.42
2	B	591	SER	CB-OG	8.58	1.53	1.42
5	E	161	SER	CB-OG	8.57	1.53	1.42
1	A	729	SER	CB-OG	8.57	1.53	1.42
2	N	591	SER	CB-OG	8.55	1.53	1.42
1	A	1223	SER	CB-OG	8.53	1.53	1.42
1	A	1293	SER	CB-OG	8.52	1.53	1.42
3	O	245	SER	CB-OG	8.52	1.53	1.42
5	Q	161	SER	CB-OG	8.51	1.53	1.42
1	M	1223	SER	CB-OG	8.48	1.53	1.42
1	M	729	SER	CB-OG	8.46	1.53	1.42
3	C	245	SER	CB-OG	8.42	1.53	1.42
1	M	1293	SER	CB-OG	8.39	1.53	1.42
1	M	733	SER	CB-OG	8.35	1.53	1.42
2	N	684	SER	CB-OG	8.34	1.53	1.42
2	B	684	SER	CB-OG	8.33	1.53	1.42
1	A	733	SER	CB-OG	8.28	1.53	1.42
1	A	1283	SER	CB-OG	8.21	1.52	1.42
3	C	2	SER	CB-OG	8.20	1.52	1.42
8	H	130	SER	CB-OG	8.19	1.52	1.42
1	M	1150	SER	CB-OG	8.15	1.52	1.42
1	M	1283	SER	CB-OG	8.15	1.52	1.42
8	T	130	SER	CB-OG	8.13	1.52	1.42
3	O	2	SER	CB-OG	8.11	1.52	1.42
3	C	101	SER	CB-OG	8.08	1.52	1.42
7	G	126	SER	CB-OG	8.07	1.52	1.42
7	S	126	SER	CB-OG	8.06	1.52	1.42
1	A	1150	SER	CB-OG	8.06	1.52	1.42
4	D	52	SER	CB-OG	7.97	1.52	1.42
7	S	92	SER	CB-OG	7.97	1.52	1.42
3	O	101	SER	CB-OG	7.96	1.52	1.42
7	G	92	SER	CB-OG	7.96	1.52	1.42
8	T	34	SER	CB-OG	7.95	1.52	1.42
4	P	52	SER	CB-OG	7.87	1.52	1.42
1	A	1219	SER	CB-OG	7.84	1.52	1.42
7	G	65	SER	CB-OG	7.84	1.52	1.42
1	M	1219	SER	CB-OG	7.83	1.52	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	E	105	SER	CB-OG	7.82	1.52	1.42
5	Q	105	SER	CB-OG	7.76	1.52	1.42
7	S	65	SER	CB-OG	7.75	1.52	1.42
12	X	67	SER	CB-OG	7.72	1.52	1.42
12	L	67	SER	CB-OG	7.67	1.52	1.42
1	A	585	SER	CB-OG	7.64	1.52	1.42
1	M	749	SER	CB-OG	7.62	1.52	1.42
1	M	585	SER	CB-OG	7.61	1.52	1.42
9	I	114	SER	CB-OG	7.60	1.52	1.42
8	H	3	SER	CB-OG	7.56	1.52	1.42
1	A	749	SER	CB-OG	7.55	1.52	1.42
2	B	1224	SER	CB-OG	7.53	1.52	1.42
8	T	3	SER	CB-OG	7.49	1.51	1.42
9	U	114	SER	CB-OG	7.49	1.51	1.42
3	C	117	SER	CB-OG	7.45	1.51	1.42
2	N	1224	SER	CB-OG	7.45	1.51	1.42
3	O	117	SER	CB-OG	7.45	1.51	1.42
9	U	28	SER	CB-OG	7.22	1.51	1.42
9	I	28	SER	CB-OG	7.18	1.51	1.42
2	B	171	SER	CB-OG	7.11	1.51	1.42
2	N	171	SER	CB-OG	7.06	1.51	1.42
1	A	720	SER	CB-OG	6.87	1.51	1.42
1	M	720	SER	CB-OG	6.86	1.51	1.42
1	M	556	SER	CB-OG	6.83	1.51	1.42
1	A	556	SER	CB-OG	6.78	1.51	1.42
5	Q	37	SER	CB-OG	6.75	1.51	1.42
5	E	37	SER	CB-OG	6.74	1.51	1.42
8	T	133	SER	CB-OG	6.68	1.50	1.42
8	H	133	SER	CB-OG	6.67	1.50	1.42
1	M	1327	SER	CB-OG	6.67	1.50	1.42
1	A	1327	SER	CB-OG	6.60	1.50	1.42
1	M	1340	SER	CB-OG	6.42	1.50	1.42
1	A	1340	SER	CB-OG	6.37	1.50	1.42
2	B	603	SER	CB-OG	6.28	1.50	1.42
2	N	603	SER	CB-OG	6.24	1.50	1.42
1	A	916	TYR	CB-CG	-6.23	1.42	1.51
1	M	916	TYR	CB-CG	-6.19	1.42	1.51
3	O	265	SER	CB-OG	6.17	1.50	1.42
5	E	72	SER	CB-OG	6.12	1.50	1.42
3	C	265	SER	CB-OG	6.06	1.50	1.42
5	Q	72	SER	CB-OG	5.97	1.50	1.42
1	A	1161	THR	CB-OG1	5.75	1.54	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	1161	THR	CB-OG1	5.72	1.54	1.43
2	B	544	SER	CB-OG	5.62	1.49	1.42
1	M	1361	PHE	CB-CG	-5.57	1.41	1.51
2	B	1189	THR	CB-OG1	5.56	1.54	1.43
2	N	1189	THR	CB-OG1	5.55	1.54	1.43
2	N	544	SER	CB-OG	5.55	1.49	1.42
2	N	552	GLU	CB-CG	-5.54	1.41	1.52
1	A	1361	PHE	CB-CG	-5.52	1.42	1.51
2	B	552	GLU	CB-CG	-5.51	1.41	1.52
12	X	72	THR	CB-OG1	5.50	1.54	1.43
12	L	72	THR	CB-OG1	5.47	1.54	1.43
2	N	174	THR	CB-OG1	5.42	1.54	1.43
11	W	22	THR	CB-OG1	5.42	1.54	1.43
5	E	69	GLU	CB-CG	-5.42	1.41	1.52
8	H	11	THR	CB-OG1	5.39	1.54	1.43
11	K	22	THR	CB-OG1	5.39	1.54	1.43
5	Q	69	GLU	CB-CG	-5.36	1.42	1.52
1	M	257	THR	CB-OG1	5.35	1.53	1.43
2	B	174	THR	CB-OG1	5.34	1.53	1.43
1	A	1171	THR	CB-OG1	5.34	1.53	1.43
4	D	168	GLU	CB-CG	-5.33	1.42	1.52
4	P	168	GLU	CB-CG	-5.32	1.42	1.52
8	T	11	THR	CB-OG1	5.30	1.53	1.43
1	A	257	THR	CB-OG1	5.29	1.53	1.43
1	M	1171	THR	CB-OG1	5.25	1.53	1.43
7	S	156	GLU	CB-CG	-5.24	1.42	1.52
1	A	121	THR	CB-OG1	5.24	1.53	1.43
7	G	156	GLU	CB-CG	-5.23	1.42	1.52
5	E	127	SER	CB-OG	5.23	1.49	1.42
1	M	121	THR	CB-OG1	5.22	1.53	1.43
9	I	109	THR	CB-OG1	5.17	1.53	1.43
9	U	109	THR	CB-OG1	5.14	1.53	1.43
12	X	32	THR	CB-OG1	5.12	1.53	1.43
7	S	112	THR	CB-OG1	5.10	1.53	1.43
2	B	178	VAL	CB-CG1	-5.09	1.42	1.52
5	Q	127	SER	CB-OG	5.09	1.48	1.42
2	B	878	THR	CB-OG1	5.09	1.53	1.43
2	N	178	VAL	CB-CG1	-5.08	1.42	1.52
11	W	57	THR	CB-OG1	5.08	1.53	1.43
12	L	32	THR	CB-OG1	5.07	1.53	1.43
2	N	878	THR	CB-OG1	5.06	1.53	1.43
11	K	81	THR	CB-OG1	5.05	1.53	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	111	THR	CB-OG1	5.05	1.53	1.43
11	K	57	THR	CB-OG1	5.05	1.53	1.43
4	P	111	THR	CB-OG1	5.02	1.53	1.43
1	A	675	SER	CB-OG	5.01	1.48	1.42

All (100) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L	29	VAL	CA-CB-CG1	9.64	125.37	110.90
12	X	29	VAL	CA-CB-CG1	9.61	125.32	110.90
2	N	682	VAL	CA-CB-CG1	7.32	121.89	110.90
2	B	682	VAL	CA-CB-CG2	7.30	121.85	110.90
11	K	54	PRO	N-CA-CB	6.99	111.69	103.30
1	A	217	PRO	N-CA-CB	6.99	111.69	103.30
11	W	54	PRO	N-CA-CB	6.98	111.68	103.30
1	M	217	PRO	N-CA-CB	6.96	111.65	103.30
1	A	198	PRO	N-CA-CB	6.91	111.60	103.30
1	M	198	PRO	N-CA-CB	6.88	111.56	103.30
3	O	124	PRO	CA-CB-CG	6.87	117.84	104.80
3	C	124	PRO	CA-CB-CG	6.83	117.78	104.80
2	N	728	PRO	N-CA-CB	6.74	111.39	103.30
2	B	728	PRO	N-CA-CB	6.70	111.34	103.30
1	M	1024	VAL	CA-CB-CG1	6.58	120.78	110.90
1	A	1024	VAL	CA-CB-CG2	6.57	120.76	110.90
1	A	707	PRO	N-CA-CB	6.48	111.08	103.30
1	M	707	PRO	N-CA-CB	6.46	111.05	103.30
11	W	17	PRO	N-CA-CB	6.41	110.99	103.30
1	M	986	PRO	N-CA-CB	6.38	110.96	103.30
11	K	17	PRO	N-CA-CB	6.34	110.91	103.30
1	M	1280	PRO	N-CA-CB	6.28	110.84	103.30
1	A	48	PRO	N-CA-CB	6.26	110.82	103.30
1	A	986	PRO	N-CA-CB	6.24	110.79	103.30
4	P	32	PRO	N-CA-CB	6.22	110.77	103.30
3	O	124	PRO	N-CA-CB	6.21	110.76	103.30
1	M	48	PRO	N-CA-CB	6.21	110.75	103.30
3	C	124	PRO	N-CA-CB	6.17	110.70	103.30
4	D	32	PRO	N-CA-CB	6.16	110.69	103.30
1	A	1280	PRO	N-CA-CB	6.15	110.68	103.30
4	P	184	PRO	N-CA-CB	6.09	110.60	103.30
1	A	1280	PRO	CA-CB-CG	6.07	116.33	104.80
2	B	543	PRO	N-CA-CB	6.06	110.58	103.30
4	D	184	PRO	N-CA-CB	6.01	110.51	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	1280	PRO	CA-CB-CG	6.00	116.20	104.80
11	K	54	PRO	CA-CB-CG	5.99	116.18	104.80
2	N	543	PRO	N-CA-CB	5.99	110.48	103.30
11	W	54	PRO	CA-CB-CG	5.98	116.16	104.80
12	X	47	PRO	N-CA-CB	5.90	110.38	103.30
12	L	47	PRO	N-CA-CB	5.88	110.36	103.30
8	T	17	ASN	CA-CB-CG	-5.88	100.47	113.40
8	H	17	ASN	CA-CB-CG	-5.87	100.49	113.40
3	O	225	PRO	N-CA-CB	5.78	110.24	103.30
3	C	225	PRO	N-CA-CB	5.76	110.21	103.30
8	H	83	PRO	N-CA-CB	5.64	110.08	103.30
7	G	123	PRO	N-CA-CB	5.64	110.07	103.30
6	F	75	LEU	CA-CB-CG	-5.63	102.34	115.30
11	K	11	ILE	CA-CB-CG1	5.62	121.67	111.00
11	W	11	ILE	CA-CB-CG1	5.62	121.67	111.00
1	A	120	PRO	N-CA-CB	5.61	110.03	103.30
6	R	75	LEU	CA-CB-CG	-5.60	102.42	115.30
1	M	120	PRO	N-CA-CB	5.60	110.02	103.30
8	T	83	PRO	N-CA-CB	5.58	110.00	103.30
11	W	13	PRO	N-CA-CB	5.57	109.98	103.30
7	S	123	PRO	N-CA-CB	5.54	109.95	103.30
3	O	267	PRO	CA-CB-CG	5.54	115.32	104.80
3	C	267	PRO	CA-CB-CG	5.53	115.31	104.80
11	K	13	PRO	N-CA-CB	5.52	109.92	103.30
1	A	1124	ARG	CA-CB-CG	-5.46	101.39	113.40
1	M	1124	ARG	CA-CB-CG	-5.45	101.40	113.40
1	M	1135	VAL	CA-CB-CG1	5.45	119.07	110.90
3	C	38	ALA	N-CA-C	5.44	125.69	111.00
1	A	986	PRO	CA-CB-CG	5.43	115.12	104.80
1	M	986	PRO	CA-CB-CG	5.42	115.11	104.80
1	A	1135	VAL	CA-CB-CG2	5.41	119.02	110.90
3	O	38	ALA	N-CA-C	5.38	125.54	111.00
3	O	267	PRO	N-CA-CB	5.38	109.75	103.30
3	C	267	PRO	N-CA-CB	5.33	109.70	103.30
1	M	97	PRO	N-CA-CB	5.31	109.68	103.30
1	A	267	LEU	N-CA-C	-5.28	96.74	111.00
1	M	267	LEU	N-CA-C	-5.28	96.75	111.00
2	B	544	SER	N-CA-CB	-5.25	102.62	110.50
4	P	184	PRO	CA-CB-CG	5.25	114.78	104.80
1	A	97	PRO	N-CA-CB	5.24	109.58	103.30
4	D	184	PRO	CA-CB-CG	5.22	114.72	104.80
2	N	544	SER	N-CA-CB	-5.21	102.69	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	F	111	ILE	CA-CB-CG1	5.20	120.87	111.00
4	D	32	PRO	CA-CB-CG	5.18	114.65	104.80
4	P	32	PRO	CA-CB-CG	5.17	114.63	104.80
1	M	980	ALA	N-CA-CB	-5.17	102.86	110.10
6	R	111	ILE	CA-CB-CG1	5.17	120.82	111.00
1	M	675	SER	N-CA-CB	-5.16	102.76	110.50
1	A	675	SER	N-CA-CB	-5.14	102.78	110.50
5	E	65	PRO	CA-CB-CG	5.14	114.56	104.80
3	C	215	PRO	CA-CB-CG	5.13	114.56	104.80
3	O	215	PRO	CA-CB-CG	5.12	114.52	104.80
5	E	65	PRO	N-CA-CB	5.11	109.44	103.30
5	Q	65	PRO	CA-CB-CG	5.10	114.49	104.80
5	Q	65	PRO	N-CA-CB	5.10	109.42	103.30
5	Q	127	SER	N-CA-CB	-5.10	102.85	110.50
1	A	980	ALA	N-CA-CB	-5.09	102.97	110.10
1	A	131	PRO	N-CA-CB	5.07	109.39	103.30
1	M	131	PRO	N-CA-CB	5.06	109.37	103.30
3	O	218	VAL	CA-CB-CG1	-5.06	103.31	110.90
5	E	127	SER	N-CA-CB	-5.05	102.92	110.50
3	C	218	VAL	CA-CB-CG1	-5.04	103.34	110.90
5	Q	72	SER	N-CA-CB	-5.03	102.96	110.50
5	E	72	SER	N-CA-CB	-5.02	102.97	110.50
1	M	1178	ILE	CA-CB-CG1	5.02	120.54	111.00
1	M	1297	GLU	CA-CB-CG	-5.01	102.39	113.40

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	10247	0	9725	1250	8
1	M	10269	0	9748	1200	0
2	B	8153	0	7831	1005	1
2	N	8190	0	7881	978	1
3	C	1863	0	1645	196	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	O	1863	0	1645	193	8
4	D	1082	0	945	110	1
4	P	1113	0	970	102	1
5	E	1638	0	1551	160	0
5	Q	1638	0	1551	163	0
6	F	637	0	620	59	1
6	R	637	0	620	78	1
7	G	1187	0	1092	161	2
7	S	1187	0	1092	148	1
8	H	959	0	858	127	2
8	T	965	0	864	123	2
9	I	854	0	763	84	0
9	U	854	0	763	82	1
10	J	487	0	492	116	0
10	V	487	0	492	115	0
11	K	832	0	727	89	0
11	W	832	0	727	90	0
12	L	319	0	287	30	1
12	X	319	0	287	30	1
13	A	2	0	0	0	0
13	B	1	0	0	1	0
13	C	1	0	0	0	0
13	I	2	0	0	0	0
13	J	1	0	0	0	0
13	L	1	0	0	0	0
13	M	2	0	0	0	0
13	N	1	0	0	0	0
13	O	1	0	0	0	0
13	U	2	0	0	0	0
13	V	1	0	0	0	0
13	X	1	0	0	0	0
All	All	56628	0	53176	6068	16

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 55.

All (6068) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:51:TRP:CG	2:B:51:TRP:CB	1.81	1.63
1:A:521:VAL:CG1	1:A:521:VAL:CB	1.76	1.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:123:ILE:CG1	5:Q:124:PRO:HD3	1.31	1.60
2:N:51:TRP:CB	2:N:51:TRP:CG	1.81	1.60
1:M:521:VAL:CG1	1:M:521:VAL:CB	1.76	1.58
7:S:94:VAL:CG1	7:S:94:VAL:CB	1.78	1.58
8:H:36:ILE:CG1	8:H:36:ILE:CB	1.81	1.58
7:G:94:VAL:CB	7:G:94:VAL:CG2	1.78	1.57
1:A:239:VAL:CB	1:A:239:VAL:CG1	1.79	1.56
1:M:239:VAL:CB	1:M:239:VAL:CG2	1.79	1.56
2:N:556:MET:CE	2:N:573:ILE:HG21	1.34	1.56
2:N:556:MET:CE	2:N:573:ILE:CG2	1.83	1.56
8:T:36:ILE:CB	8:T:36:ILE:CG1	1.81	1.55
1:A:1021:GLN:CG	1:A:1021:GLN:CB	1.79	1.54
2:B:556:MET:CE	2:B:573:ILE:HG21	1.36	1.54
1:M:1021:GLN:CB	1:M:1021:GLN:CG	1.79	1.54
2:B:556:MET:CE	2:B:573:ILE:CG2	1.85	1.52
5:E:123:ILE:CG1	5:E:124:PRO:HD3	1.39	1.49
1:A:911:PRO:HA	1:A:917:ALA:CB	1.44	1.48
1:M:1279:ILE:HG23	1:M:1282:ILE:CD1	1.41	1.47
1:M:911:PRO:HA	1:M:917:ALA:CB	1.44	1.47
1:M:1279:ILE:CG2	1:M:1282:ILE:HD12	1.47	1.44
1:A:799:GLY:HA2	1:A:816:PHE:CD1	1.53	1.43
11:K:43:ALA:HB1	11:K:61:TYR:CD1	1.56	1.41
11:W:43:ALA:HB1	11:W:61:TYR:CD1	1.55	1.41
1:A:911:PRO:CB	1:A:917:ALA:HB3	1.49	1.40
1:M:911:PRO:CB	1:M:917:ALA:HB3	1.49	1.40
1:M:911:PRO:CA	1:M:917:ALA:CB	2.03	1.37
1:A:911:PRO:CA	1:A:917:ALA:CB	2.03	1.36
5:Q:123:ILE:CG1	5:Q:124:PRO:CD	2.03	1.35
2:B:556:MET:HE3	2:B:573:ILE:CG2	1.50	1.34
3:C:47:LEU:HB3	3:C:158:ILE:CG2	1.58	1.33
3:O:47:LEU:HB3	3:O:158:ILE:CG2	1.59	1.30
7:S:47:THR:OG1	7:S:47:THR:CB	1.77	1.30
1:M:1279:ILE:CG2	1:M:1282:ILE:CD1	2.06	1.30
7:S:89:ALA:HB1	7:S:102:ASP:O	1.26	1.30
7:S:150:THR:OG1	7:S:150:THR:CB	1.79	1.30
7:G:47:THR:OG1	7:G:47:THR:CB	1.77	1.29
5:Q:89:ILE:HG23	5:Q:119:ALA:N	1.47	1.29
5:E:123:ILE:CG1	5:E:124:PRO:CD	2.09	1.29
7:G:150:THR:OG1	7:G:150:THR:CB	1.79	1.29
11:W:43:ALA:HB1	11:W:61:TYR:CE1	1.68	1.29
5:E:89:ILE:HG23	5:E:119:ALA:N	1.47	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:24:SER:OG	8:H:24:SER:CB	1.82	1.28
11:K:43:ALA:HB1	11:K:61:TYR:CE1	1.68	1.28
2:N:1165:ILE:HG23	4:P:13:ARG:O	1.22	1.27
2:B:1114:LEU:CD1	2:B:1202:LEU:HD11	1.62	1.27
11:W:43:ALA:CB	11:W:61:TYR:CE1	2.16	1.27
7:G:89:ALA:HB1	7:G:102:ASP:O	1.26	1.26
11:K:43:ALA:CB	11:K:61:TYR:CE1	2.16	1.26
5:Q:89:ILE:CG2	5:Q:119:ALA:N	1.98	1.26
8:T:24:SER:OG	8:T:24:SER:CB	1.82	1.26
5:E:89:ILE:CG2	5:E:119:ALA:N	1.99	1.25
1:A:801:VAL:HG11	1:A:809:LEU:CD1	1.64	1.25
5:Q:80:GLU:O	5:Q:110:ILE:HG22	1.35	1.24
5:E:80:GLU:O	5:E:110:ILE:HG22	1.36	1.23
2:B:1217:TYR:OH	4:D:14:ARG:HA	1.41	1.21
2:N:556:MET:HE3	2:N:573:ILE:CG2	1.55	1.19
1:A:578:LEU:O	1:A:581:ILE:HG22	1.41	1.18
1:M:1279:ILE:HG21	1:M:1319:VAL:CG2	1.72	1.17
2:B:889:THR:O	2:B:910:ILE:HG22	1.44	1.17
2:N:889:THR:O	2:N:910:ILE:HG22	1.44	1.17
1:A:799:GLY:CA	1:A:816:PHE:HD1	1.57	1.17
3:C:99:GLU:HB2	3:C:119:ILE:HG23	1.22	1.17
1:A:911:PRO:CB	1:A:917:ALA:CB	2.21	1.16
1:M:578:LEU:O	1:M:581:ILE:HG22	1.42	1.16
1:A:799:GLY:CA	1:A:816:PHE:CD1	2.29	1.15
1:A:1453:LEU:HD11	7:G:18:PHE:O	1.47	1.14
1:M:384:TYR:HB3	6:R:115:THR:HG22	1.17	1.14
5:Q:89:ILE:HG22	5:Q:119:ALA:HA	1.28	1.14
1:A:345:ARG:HA	2:B:1129:ARG:HA	1.24	1.13
1:A:776:ILE:HG13	1:A:816:PHE:CG	1.81	1.13
3:O:99:GLU:HB2	3:O:119:ILE:CG1	1.78	1.13
3:C:99:GLU:HB2	3:C:119:ILE:CG2	1.76	1.13
1:M:40:ILE:HB	1:M:41:MET:HE2	1.13	1.12
1:M:911:PRO:HB3	1:M:917:ALA:CB	1.77	1.12
5:E:89:ILE:HG22	5:E:119:ALA:HA	1.28	1.11
2:N:540:ILE:CG1	2:N:605:GLU:OE2	1.99	1.11
2:B:540:ILE:CG1	2:B:605:GLU:OE2	1.98	1.11
2:B:1114:LEU:HD12	2:B:1202:LEU:HD11	1.16	1.11
1:M:911:PRO:HA	1:M:917:ALA:HB2	1.16	1.11
1:A:911:PRO:HA	1:A:917:ALA:HB2	1.16	1.11
1:A:911:PRO:HB3	1:A:917:ALA:CB	1.77	1.11
1:A:801:VAL:HG11	1:A:809:LEU:HD11	1.16	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:103:MET:HE1	7:S:65:SER:C	1.71	1.10
2:N:582:ILE:CG1	2:N:583:HIS:H	1.64	1.10
1:A:316:LEU:HD12	2:B:464:LYS:HB3	1.28	1.10
2:B:307:LYS:O	2:B:310:ILE:HG22	1.49	1.10
6:F:109:VAL:HG12	6:F:110:ASP:H	1.15	1.10
3:O:42:THR:HG22	3:O:43:LEU:H	1.08	1.10
5:Q:89:ILE:CG2	5:Q:118:SER:C	2.20	1.10
6:R:109:VAL:HG12	6:R:110:ASP:H	1.15	1.10
1:A:911:PRO:HB3	1:A:917:ALA:HB3	1.15	1.09
2:N:556:MET:HE1	2:N:573:ILE:HG23	1.17	1.09
2:B:582:ILE:CG1	2:B:583:HIS:H	1.64	1.09
5:E:89:ILE:CG2	5:E:118:SER:C	2.21	1.09
3:C:47:LEU:HB3	3:C:158:ILE:HG21	1.29	1.09
1:M:911:PRO:HB3	1:M:917:ALA:HB3	1.15	1.08
1:M:1029:ALA:O	1:M:1033:ILE:HG23	1.52	1.08
1:A:801:VAL:HA	1:A:813:GLU:OE1	1.52	1.08
1:A:1142:TYR:HB2	1:A:1279:ILE:O	1.53	1.08
1:A:988:ILE:HD13	1:A:1033:ILE:CG1	1.83	1.08
1:A:1441:THR:HB	2:B:1144:ALA:CB	1.84	1.08
1:M:988:ILE:HD13	1:M:1033:ILE:CG1	1.83	1.08
1:A:1279:ILE:CG1	1:A:1280:PRO:N	2.17	1.08
2:N:1159:ARG:HH11	2:N:1159:ARG:HB3	1.14	1.08
2:N:556:MET:CE	2:N:573:ILE:HG23	1.68	1.07
9:U:34:TYR:HD2	9:U:35:THR:N	1.52	1.07
3:C:42:THR:HG22	3:C:43:LEU:H	1.08	1.07
1:A:53:LEU:HD23	1:A:54:ASN:N	1.68	1.07
1:A:1029:ALA:O	1:A:1033:ILE:HG23	1.54	1.07
2:B:556:MET:HE1	2:B:573:ILE:HG23	1.21	1.07
7:G:88:ASP:HB3	7:G:144:ARG:HA	1.35	1.07
1:M:53:LEU:HD23	1:M:54:ASN:H	1.15	1.07
1:M:53:LEU:HD23	1:M:54:ASN:N	1.68	1.07
2:B:1159:ARG:HB3	2:B:1159:ARG:HH11	1.14	1.07
1:M:384:TYR:HB3	6:R:115:THR:CG2	1.85	1.06
1:M:591:ARG:NH2	1:M:621:LYS:HB3	1.71	1.06
1:A:591:ARG:NH2	1:A:621:LYS:HB3	1.70	1.06
9:I:34:TYR:HD2	9:I:35:THR:N	1.53	1.06
6:R:103:MET:HE1	7:S:65:SER:CA	1.85	1.06
3:O:141:GLY:O	3:O:142:ILE:CG1	2.03	1.06
1:A:801:VAL:HG22	1:A:813:GLU:HB3	1.26	1.06
3:C:141:GLY:O	3:C:142:ILE:CG1	2.03	1.06
1:A:41:MET:HB3	1:A:49:ARG:HA	1.36	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:47:LEU:HB3	3:O:158:ILE:HG21	1.29	1.05
1:A:53:LEU:HD23	1:A:54:ASN:H	1.15	1.04
5:E:120:ASN:O	5:E:123:ILE:HG23	1.54	1.04
1:A:1441:THR:CG2	2:B:1144:ALA:HB3	1.86	1.04
2:N:1007:VAL:HG22	2:N:1008:PRO:HD2	1.40	1.04
2:B:1007:VAL:HG22	2:B:1008:PRO:HD2	1.40	1.03
2:B:556:MET:CE	2:B:573:ILE:HG23	1.69	1.03
1:A:333:LYS:H	1:A:338:ARG:HB3	1.23	1.03
1:A:911:PRO:CA	1:A:917:ALA:HB3	1.79	1.03
7:S:88:ASP:HB3	7:S:144:ARG:HA	1.35	1.03
3:O:4:GLU:CB	3:O:5:PRO:HD2	1.88	1.03
1:A:776:ILE:HG13	1:A:816:PHE:CB	1.89	1.03
1:M:1279:ILE:HG21	1:M:1319:VAL:HG22	1.03	1.02
2:B:999:MET:HG3	2:B:1000:PRO:HD2	1.41	1.02
3:C:4:GLU:CB	3:C:5:PRO:HD2	1.88	1.02
1:M:41:MET:HB3	1:M:49:ARG:HA	1.36	1.02
1:M:553:TRP:HE1	11:W:62:LYS:HB2	1.24	1.02
1:A:780:PHE:HE1	1:A:786:PRO:HD3	1.25	1.02
1:M:780:PHE:HE1	1:M:786:PRO:HD3	1.25	1.02
11:K:43:ALA:HB3	11:K:61:TYR:CE1	1.92	1.02
1:M:911:PRO:CB	1:M:917:ALA:CB	2.22	1.02
1:M:333:LYS:H	1:M:338:ARG:HB3	1.23	1.01
1:A:739:LYS:HB2	1:A:741:LEU:HD23	1.40	1.01
11:K:43:ALA:CB	11:K:61:TYR:HE1	1.67	1.01
2:N:1116:ARG:NE	2:N:1198:TYR:CE1	2.28	1.01
3:O:4:GLU:CB	3:O:5:PRO:CD	2.37	1.01
11:W:43:ALA:HB3	11:W:61:TYR:CE1	1.92	1.01
2:B:582:ILE:CG1	2:B:583:HIS:N	2.22	1.01
3:O:31:SER:O	3:O:35:THR:HG23	1.61	1.01
3:O:99:GLU:CB	3:O:119:ILE:CG1	2.38	1.01
1:A:41:MET:H	1:A:41:MET:HE2	1.23	1.01
2:N:999:MET:HG3	2:N:1000:PRO:HD2	1.41	1.01
5:Q:120:ASN:O	5:Q:123:ILE:HG23	1.59	1.01
1:M:739:LYS:HB2	1:M:741:LEU:HD23	1.40	1.00
1:A:553:TRP:HE1	11:K:62:LYS:HB2	1.24	1.00
1:A:801:VAL:CG1	1:A:809:LEU:CD1	2.40	1.00
3:C:4:GLU:CB	3:C:5:PRO:CD	2.38	1.00
1:M:911:PRO:CA	1:M:917:ALA:HB3	1.79	1.00
3:C:31:SER:O	3:C:35:THR:HG23	1.61	1.00
1:M:444:LEU:HD11	1:M:456:MET:HB3	1.44	0.99
1:M:799:GLY:HA2	1:M:816:PHE:HD1	1.25	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1165:ILE:CG2	4:P:13:ARG:O	2.10	0.99
6:F:82:THR:HG22	6:F:84:TYR:H	1.28	0.99
1:M:504:GLN:HE21	6:R:90:ARG:HH21	1.02	0.99
1:A:769:GLN:OE1	1:A:817:HIS:ND1	1.95	0.99
1:A:1013:GLN:O	1:A:1017:THR:HG23	1.62	0.99
6:R:82:THR:HG22	6:R:84:TYR:H	1.28	0.99
1:M:1279:ILE:HG23	1:M:1282:ILE:HD11	1.41	0.99
1:A:776:ILE:HG13	1:A:816:PHE:HB3	1.43	0.99
1:A:1441:THR:HB	2:B:1144:ALA:HB2	1.44	0.99
11:W:43:ALA:CB	11:W:61:TYR:HE1	1.67	0.98
1:A:444:LEU:HD11	1:A:456:MET:HB3	1.44	0.98
7:G:138:THR:HG22	7:G:139:LYS:N	1.78	0.98
2:N:582:ILE:CG1	2:N:583:HIS:N	2.22	0.98
5:Q:89:ILE:HG22	5:Q:119:ALA:CA	1.94	0.98
2:B:1159:ARG:HB3	2:B:1159:ARG:NH1	1.78	0.98
5:E:89:ILE:HG22	5:E:119:ALA:CA	1.94	0.98
1:A:1118:LEU:N	1:A:1311:THR:HG22	1.79	0.98
3:O:47:LEU:HB3	3:O:158:ILE:HG23	1.41	0.98
5:E:89:ILE:CG2	5:E:119:ALA:CA	2.42	0.98
1:A:776:ILE:CG1	1:A:816:PHE:HB3	1.94	0.97
1:M:1013:GLN:O	1:M:1017:THR:HG23	1.62	0.97
2:N:1159:ARG:HB3	2:N:1159:ARG:NH1	1.78	0.97
2:B:1114:LEU:HD12	2:B:1202:LEU:CD1	1.92	0.97
7:S:138:THR:HG22	7:S:139:LYS:N	1.79	0.97
5:Q:89:ILE:CG2	5:Q:119:ALA:CA	2.42	0.97
1:M:1118:LEU:N	1:M:1311:THR:HG22	1.79	0.97
1:A:55:ASP:C	1:A:57:LYS:H	1.68	0.97
7:S:89:ALA:HB1	7:S:102:ASP:C	1.84	0.97
7:G:89:ALA:HB1	7:G:102:ASP:C	1.83	0.97
7:G:138:THR:HG22	7:G:139:LYS:H	1.28	0.97
1:M:799:GLY:HA2	1:M:816:PHE:CD1	1.99	0.97
10:J:43:TYR:HA	10:J:46:ARG:HB2	1.45	0.96
3:C:47:LEU:HB3	3:C:158:ILE:HG23	1.41	0.96
10:V:43:TYR:HA	10:V:46:ARG:HB2	1.44	0.96
1:M:1107:LEU:HD22	1:M:1387:ILE:HG21	1.48	0.96
6:R:103:MET:CE	7:S:65:SER:C	2.33	0.96
5:E:174:LEU:HD23	5:E:175:PRO:HD2	1.48	0.95
1:A:1107:LEU:HD22	1:A:1387:ILE:HG21	1.48	0.95
1:M:911:PRO:CA	1:M:917:ALA:HB1	1.94	0.95
3:O:99:GLU:CG	3:O:119:ILE:CG1	2.44	0.95
2:N:882:THR:HG1	2:N:934:LYS:N	1.64	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:65:ARG:NH2	10:V:5:VAL:HG23	1.82	0.95
1:A:864:ILE:HG23	5:E:175:PRO:HD3	1.46	0.95
3:O:56:VAL:HG11	10:V:59:PHE:HB3	1.49	0.95
7:G:89:ALA:CB	7:G:102:ASP:O	2.14	0.94
7:S:34:VAL:HG12	7:S:45:ILE:HG21	1.48	0.94
1:M:864:ILE:HG23	5:Q:175:PRO:HD3	1.47	0.94
2:N:889:THR:O	2:N:910:ILE:CG2	2.14	0.94
1:A:911:PRO:CA	1:A:917:ALA:HB1	1.93	0.94
7:S:138:THR:HG22	7:S:139:LYS:H	1.28	0.94
3:C:56:VAL:HG11	10:J:59:PHE:HB3	1.49	0.94
6:F:86:THR:OG1	6:F:89:GLU:HG3	1.66	0.94
10:V:63:ASN:HB3	10:V:64:PRO:CD	1.98	0.94
2:B:1114:LEU:HD11	2:B:1202:LEU:HD11	1.48	0.94
8:H:134:LEU:HD13	8:H:136:GLN:NE2	1.83	0.94
1:M:55:ASP:C	1:M:57:LYS:H	1.68	0.94
2:B:1114:LEU:CD1	2:B:1202:LEU:CD1	2.45	0.93
10:J:63:ASN:HB3	10:J:64:PRO:CD	1.98	0.93
2:N:1065:GLN:HG3	2:N:1067:ARG:H	1.33	0.93
5:Q:174:LEU:HD23	5:Q:175:PRO:HD2	1.48	0.93
3:C:65:ARG:NH2	10:J:5:VAL:HG23	1.82	0.93
8:T:134:LEU:HD13	8:T:136:GLN:NE2	1.83	0.93
2:B:889:THR:O	2:B:910:ILE:CG2	2.15	0.93
1:M:568:LYS:HD2	1:M:569:PRO:HD2	1.50	0.93
2:N:890:TYR:HA	2:N:910:ILE:CG2	1.98	0.93
1:A:568:LYS:HD2	1:A:569:PRO:HD2	1.51	0.93
7:G:34:VAL:HG12	7:G:45:ILE:HG21	1.48	0.93
2:B:810:GLU:HA	2:B:815:ARG:HH12	1.34	0.93
2:B:1065:GLN:HG3	2:B:1067:ARG:H	1.33	0.93
5:E:83:ASP:O	5:E:85:PRO:HD3	1.68	0.93
2:N:503:LYS:HG2	2:N:504:PRO:HD3	1.50	0.93
1:A:638:LYS:CB	1:A:642:ILE:CG1	2.47	0.93
7:S:89:ALA:CB	7:S:102:ASP:O	2.14	0.93
2:B:503:LYS:HG2	2:B:504:PRO:HD3	1.51	0.93
1:M:988:ILE:CD1	1:M:1033:ILE:CG1	2.47	0.93
6:R:86:THR:OG1	6:R:89:GLU:HG3	1.67	0.93
2:B:890:TYR:HA	2:B:910:ILE:CG2	1.99	0.92
5:E:89:ILE:HG21	5:E:118:SER:C	1.90	0.92
10:J:1:MET:HB2	10:J:55:LEU:HD12	1.50	0.92
1:M:336:ARG:HA	1:M:340:ASN:HD22	1.34	0.92
2:N:810:GLU:HA	2:N:815:ARG:HH12	1.34	0.92
2:B:387:ASP:OD2	9:I:91:ARG:HG3	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:256:THR:CB	2:N:918:ILE:HG21	2.00	0.92
2:B:1072:MET:HE3	2:B:1085:VAL:HB	1.52	0.92
5:Q:83:ASP:O	5:Q:85:PRO:HD3	1.68	0.92
7:S:89:ALA:CB	7:S:102:ASP:C	2.38	0.92
1:M:266:LYS:H	1:M:266:LYS:HD2	1.34	0.92
1:M:638:LYS:CB	1:M:642:ILE:CG1	2.47	0.92
1:M:1279:ILE:HG22	1:M:1282:ILE:HD12	1.52	0.92
5:Q:89:ILE:HG21	5:Q:118:SER:C	1.89	0.92
1:M:710:THR:HB	1:M:713:GLU:HG3	1.52	0.92
1:A:710:THR:HB	1:A:713:GLU:HG3	1.52	0.92
1:A:1118:LEU:H	1:A:1311:THR:HG22	1.31	0.92
2:B:352:GLU:O	2:B:355:PRO:HD3	1.69	0.92
10:V:1:MET:HB2	10:V:55:LEU:HD12	1.50	0.92
2:B:387:ASP:OD2	9:I:91:ARG:CG	2.17	0.91
5:E:89:ILE:HG21	5:E:118:SER:CB	2.01	0.91
11:W:43:ALA:HB3	11:W:61:TYR:HE1	1.26	0.91
1:A:266:LYS:H	1:A:266:LYS:HD2	1.34	0.91
2:B:556:MET:HE2	2:B:573:ILE:CG2	1.99	0.91
1:M:1118:LEU:H	1:M:1311:THR:HG22	1.31	0.91
1:M:1279:ILE:O	1:M:1280:PRO:O	1.87	0.91
1:M:504:GLN:NE2	6:R:90:ARG:HH21	1.69	0.91
1:A:1453:LEU:CD1	7:G:18:PHE:O	2.17	0.91
7:G:89:ALA:CB	7:G:102:ASP:C	2.38	0.91
2:N:766:ARG:HH22	2:N:1020:ARG:HH11	0.98	0.91
1:A:988:ILE:CD1	1:A:1033:ILE:CG1	2.47	0.91
11:W:49:GLU:HG3	11:W:94:ILE:HG12	1.53	0.91
1:A:336:ARG:HA	1:A:340:ASN:HD22	1.34	0.91
3:C:164:ALA:HB2	3:C:171:SER:CB	2.00	0.91
11:K:49:GLU:HG3	11:K:94:ILE:HG12	1.53	0.91
2:N:270:GLN:HG2	2:N:271:ASP:H	1.37	0.90
2:B:941:LEU:HD21	2:B:946:ASN:HA	1.53	0.90
2:B:766:ARG:HH22	2:B:1020:ARG:HH11	0.98	0.90
2:N:352:GLU:O	2:N:355:PRO:HD3	1.69	0.90
2:B:865:ARG:CG	2:B:871:VAL:HG22	2.02	0.90
10:V:63:ASN:HB3	10:V:64:PRO:HD3	1.54	0.90
1:M:1279:ILE:HG23	1:M:1282:ILE:HD12	0.91	0.90
2:N:865:ARG:CG	2:N:871:VAL:HG22	2.02	0.90
3:O:164:ALA:HB2	3:O:171:SER:CB	2.00	0.90
5:Q:89:ILE:HG21	5:Q:118:SER:CB	2.01	0.90
1:A:769:GLN:HG3	1:A:817:HIS:CA	2.01	0.90
5:Q:146:HIS:HB3	5:Q:149:VAL:HG23	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:63:ASN:HB3	10:J:64:PRO:HD3	1.54	0.90
1:A:638:LYS:HB3	1:A:642:ILE:CG1	2.02	0.90
1:A:1448:ILE:HG21	7:G:18:PHE:HE2	1.34	0.90
4:P:82:GLY:HA2	4:P:85:ASP:CG	1.91	0.90
5:E:146:HIS:HB3	5:E:149:VAL:HG23	1.54	0.89
1:M:1279:ILE:CG2	1:M:1319:VAL:HG22	1.98	0.89
2:B:270:GLN:HG2	2:B:271:ASP:H	1.37	0.89
1:M:638:LYS:HB3	1:M:642:ILE:CG1	2.02	0.89
2:N:821:GLN:HE22	2:N:851:PHE:H	1.21	0.89
2:N:941:LEU:HD21	2:N:946:ASN:HA	1.53	0.89
1:M:1441:THR:HB	2:N:1144:ALA:CB	2.02	0.89
5:E:81:PHE:HA	5:E:110:ILE:CG2	2.02	0.89
1:M:345:ARG:HA	2:N:1129:ARG:HA	1.54	0.89
2:N:12:ILE:CD1	2:N:647:ILE:CG1	2.51	0.89
2:N:514:LEU:HD22	2:N:626:VAL:HG12	1.55	0.89
2:B:514:LEU:HD22	2:B:626:VAL:HG12	1.55	0.89
2:N:307:LYS:O	2:N:310:ILE:HG23	1.72	0.89
1:A:801:VAL:CG1	1:A:809:LEU:HG	2.03	0.88
2:B:821:GLN:HE22	2:B:851:PHE:H	1.21	0.88
6:R:103:MET:CE	7:S:65:SER:HA	2.04	0.88
1:M:1006:ASN:ND2	5:Q:166:ARG:HD2	1.87	0.88
2:B:957:ASN:HD22	2:B:961:LEU:HD12	1.39	0.88
5:Q:81:PHE:HA	5:Q:110:ILE:CG2	2.02	0.88
1:A:316:LEU:CD1	2:B:464:LYS:HB3	2.02	0.88
1:A:801:VAL:CA	1:A:813:GLU:OE1	2.22	0.88
2:B:12:ILE:CD1	2:B:647:ILE:CG1	2.51	0.88
2:B:509:ASN:HD22	2:B:509:ASN:N	1.70	0.88
2:N:158:ILE:HG22	2:N:446:ILE:HD12	1.56	0.88
2:N:1072:MET:HE3	2:N:1085:VAL:HB	1.55	0.88
11:W:43:ALA:HB1	11:W:61:TYR:HD1	1.38	0.88
1:M:739:LYS:HD2	1:M:739:LYS:H	1.39	0.88
1:A:797:SER:O	1:A:816:PHE:CZ	2.26	0.88
1:M:1339:LEU:HB2	1:M:1347:THR:CB	2.04	0.88
3:O:74:GLU:HB3	3:O:128:ASN:HB3	1.55	0.88
2:B:1095:LEU:H	2:B:1095:LEU:HD12	1.39	0.88
5:E:152:HIS:O	5:E:153:ILE:HG13	1.73	0.88
10:J:1:MET:N	10:J:55:LEU:H	1.72	0.87
2:N:957:ASN:HD22	2:N:961:LEU:HD12	1.39	0.87
2:N:1095:LEU:H	2:N:1095:LEU:HD12	1.40	0.87
1:M:902:LEU:H	1:M:927:GLN:HE21	1.22	0.87
5:Q:152:HIS:O	5:Q:153:ILE:HG13	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:158:ILE:HG22	2:B:446:ILE:HD12	1.56	0.87
2:N:556:MET:HE2	2:N:573:ILE:CG2	2.03	0.87
1:A:769:GLN:OE1	1:A:817:HIS:HA	1.73	0.87
1:A:1006:ASN:ND2	5:E:166:ARG:HD2	1.88	0.87
2:N:509:ASN:HD22	2:N:509:ASN:N	1.70	0.87
5:E:89:ILE:HG21	5:E:118:SER:HB2	1.55	0.87
1:M:266:LYS:HD2	1:M:266:LYS:N	1.88	0.87
1:A:1339:LEU:HB2	1:A:1347:THR:CB	2.04	0.87
2:B:1181:GLU:HA	2:B:1187:ASN:O	1.75	0.87
2:B:1165:ILE:HA	4:D:13:ARG:O	1.74	0.87
1:A:986:PRO:O	1:A:990:HIS:HB2	1.74	0.87
1:A:1441:THR:HB	2:B:1144:ALA:HB3	1.57	0.87
3:C:74:GLU:HB3	3:C:128:ASN:HB3	1.55	0.87
7:S:138:THR:CG2	7:S:139:LYS:H	1.87	0.87
1:M:447:ARG:HB2	1:M:488:MET:SD	2.15	0.86
10:V:1:MET:N	10:V:55:LEU:H	1.72	0.86
1:A:266:LYS:HD2	1:A:266:LYS:N	1.88	0.86
7:G:138:THR:CG2	7:G:139:LYS:H	1.87	0.86
5:Q:89:ILE:CG2	5:Q:119:ALA:HA	2.04	0.86
1:A:69:THR:C	1:A:71:GLY:H	1.78	0.86
1:A:739:LYS:H	1:A:739:LYS:HD2	1.39	0.86
1:M:986:PRO:O	1:M:990:HIS:HB2	1.74	0.86
2:N:1181:GLU:HA	2:N:1187:ASN:O	1.75	0.86
1:A:316:LEU:HD12	2:B:464:LYS:CB	2.05	0.86
11:K:43:ALA:HB3	11:K:61:TYR:HE1	1.26	0.86
3:O:42:THR:HG22	3:O:43:LEU:N	1.90	0.86
1:A:1441:THR:CB	2:B:1144:ALA:HB3	2.05	0.86
2:B:519:GLU:OE2	2:B:752:ALA:HB2	1.74	0.86
1:M:811:PRO:HB3	2:N:512:TRP:HH2	1.39	0.86
1:A:447:ARG:HB2	1:A:488:MET:SD	2.15	0.85
3:C:42:THR:HG22	3:C:43:LEU:N	1.90	0.85
3:O:9:ILE:HD11	11:W:108:GLU:HB3	1.58	0.85
1:A:776:ILE:CD1	1:A:816:PHE:HB3	2.05	0.85
1:A:1142:TYR:CB	1:A:1279:ILE:O	2.24	0.85
2:N:519:GLU:OE2	2:N:752:ALA:HB2	1.74	0.85
5:Q:89:ILE:HG21	5:Q:118:SER:HB2	1.55	0.85
7:S:80:LYS:HG2	7:S:80:LYS:O	1.76	0.85
2:B:206:GLN:HE22	2:B:492:ASN:HB3	1.41	0.85
2:B:806:THR:HG22	2:B:808:ALA:H	1.38	0.85
3:C:138:TYR:O	3:C:139:ASP:CB	2.25	0.85
1:A:902:LEU:H	1:A:927:GLN:HE21	1.22	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1450:GLU:CG	7:G:22:MET:HB3	2.07	0.85
3:O:30:ASN:O	3:O:33:ARG:HB3	1.75	0.85
2:N:206:GLN:HE22	2:N:492:ASN:HB3	1.41	0.85
2:N:806:THR:HG22	2:N:808:ALA:H	1.38	0.85
3:O:138:TYR:O	3:O:139:ASP:CB	2.25	0.85
1:A:983:LEU:HD21	1:A:1041:ARG:HA	1.58	0.85
1:A:788:PHE:CZ	1:A:812:GLN:HG2	2.11	0.85
2:B:1207:LEU:HB3	2:B:1212:ILE:HG22	1.57	0.85
3:C:30:ASN:O	3:C:33:ARG:HB3	1.75	0.85
2:B:766:ARG:NH2	2:B:1020:ARG:HH11	1.73	0.85
5:E:81:PHE:HA	5:E:110:ILE:HG23	1.58	0.85
1:M:638:LYS:HB2	1:M:642:ILE:CG1	2.07	0.85
1:M:780:PHE:CE1	1:M:786:PRO:HD3	2.11	0.85
2:N:1207:LEU:HB3	2:N:1212:ILE:HG22	1.57	0.85
1:A:1388:THR:HG23	1:A:1390:HIS:H	1.42	0.84
7:G:80:LYS:O	7:G:80:LYS:HG2	1.76	0.84
1:M:316:LEU:HD12	2:N:464:LYS:HB3	1.56	0.84
1:M:1441:THR:HB	2:N:1144:ALA:HB2	1.59	0.84
2:N:766:ARG:HH22	2:N:1020:ARG:NH1	1.75	0.84
2:N:766:ARG:NH2	2:N:1020:ARG:HH11	1.74	0.84
1:A:638:LYS:HB2	1:A:642:ILE:CG1	2.07	0.84
1:A:780:PHE:CE1	1:A:786:PRO:HD3	2.11	0.84
3:C:175:ALA:CB	10:J:42:ARG:HH22	1.91	0.84
1:A:900:VAL:HB	1:A:930:LEU:HD11	1.59	0.84
1:M:564:PRO:HG3	1:M:573:TRP:CZ2	2.12	0.84
5:Q:81:PHE:HA	5:Q:110:ILE:HG23	1.57	0.84
3:C:9:ILE:HD11	11:K:108:GLU:HB3	1.59	0.84
7:G:1:MET:HE3	7:G:80:LYS:O	1.76	0.84
1:M:1388:THR:HG23	1:M:1390:HIS:H	1.41	0.84
2:N:287:GLY:H	2:N:290:LEU:HD23	1.43	0.84
3:O:175:ALA:CB	10:V:42:ARG:HH22	1.91	0.84
8:T:92:TYR:HB3	8:T:143:ILE:O	1.78	0.84
1:M:900:VAL:HB	1:M:930:LEU:HD11	1.59	0.84
2:N:1180:PHE:HB3	2:N:1191:ILE:HD13	1.57	0.84
1:A:493:PRO:HB3	1:A:502:LEU:HD12	1.59	0.84
1:A:564:PRO:HG3	1:A:573:TRP:CZ2	2.12	0.84
1:A:1441:THR:HG21	2:B:1144:ALA:HB3	1.60	0.84
2:B:766:ARG:HH22	2:B:1020:ARG:NH1	1.75	0.84
2:B:801:LYS:O	10:J:51:THR:HG23	1.78	0.84
1:M:764:ALA:O	1:M:804:SER:HB3	1.78	0.84
2:N:755:ILE:HA	2:N:809:MET:HE2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:5:PRO:HB3	3:C:24:VAL:HG12	1.58	0.84
3:C:257:ASN:HA	3:C:260:PHE:HB3	1.60	0.84
1:M:69:THR:C	1:M:71:GLY:H	1.78	0.84
11:K:43:ALA:HB1	11:K:61:TYR:HD1	1.38	0.84
2:N:249:LEU:HB2	2:N:378:LEU:HD21	1.60	0.84
2:N:556:MET:HE1	2:N:573:ILE:CG2	1.73	0.84
2:B:755:ILE:HA	2:B:809:MET:HE2	1.59	0.84
2:B:1180:PHE:HB3	2:B:1191:ILE:HD13	1.57	0.84
11:K:21:ILE:HG12	11:K:33:ILE:HG12	1.58	0.84
9:U:95:THR:HG22	9:U:96:ASN:H	1.43	0.84
6:R:103:MET:CE	7:S:65:SER:CA	2.55	0.83
5:E:89:ILE:CG2	5:E:119:ALA:HA	2.05	0.83
3:O:257:ASN:HA	3:O:260:PHE:HB3	1.60	0.83
11:W:21:ILE:HG12	11:W:33:ILE:HG12	1.58	0.83
1:A:764:ALA:O	1:A:804:SER:HB3	1.78	0.83
8:H:92:TYR:HB3	8:H:143:ILE:O	1.78	0.83
1:M:493:PRO:HB3	1:M:502:LEU:HD12	1.59	0.83
1:M:1354:GLU:O	1:M:1358:VAL:HG23	1.78	0.83
1:A:41:MET:HE2	1:A:41:MET:N	1.94	0.83
2:B:287:GLY:H	2:B:290:LEU:HD23	1.43	0.83
4:P:41:HIS:HB2	7:S:73:LYS:NZ	1.94	0.83
1:A:1327:SER:HB2	5:E:141:VAL:HG11	1.59	0.83
1:M:983:LEU:HD21	1:M:1041:ARG:HA	1.59	0.83
1:M:1327:SER:HB2	5:Q:141:VAL:HG11	1.59	0.83
2:N:801:LYS:O	10:V:51:THR:HG23	1.78	0.83
1:A:51:GLY:O	1:A:56:PRO:HB3	1.79	0.83
1:M:1241:ARG:HH22	1:M:1243:ARG:HH22	1.26	0.83
9:I:95:THR:HG22	9:I:96:ASN:H	1.43	0.83
6:R:103:MET:HE1	7:S:65:SER:HA	1.59	0.83
1:A:40:ILE:HB	1:A:41:MET:CE	2.08	0.83
1:A:1116:PRO:HB2	1:A:1314:ILE:HG23	1.61	0.83
1:A:1244:VAL:O	1:A:1245:ILE:CG1	2.27	0.83
1:M:568:LYS:CD	1:M:569:PRO:HD2	2.09	0.83
1:A:354:ILE:HG21	1:A:488:MET:HG3	1.61	0.82
4:D:41:HIS:HB2	7:G:73:LYS:NZ	1.94	0.82
1:M:1116:PRO:HB2	1:M:1314:ILE:HG23	1.61	0.82
2:B:1217:TYR:OH	4:D:14:ARG:CA	2.27	0.82
1:M:51:GLY:O	1:M:56:PRO:HB3	1.78	0.82
1:M:1244:VAL:O	1:M:1245:ILE:CG1	2.27	0.82
1:A:568:LYS:CD	1:A:569:PRO:HD2	2.09	0.82
1:A:769:GLN:HG3	1:A:817:HIS:N	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1354:GLU:O	1:A:1358:VAL:HG23	1.78	0.82
9:I:34:TYR:CD2	9:I:35:THR:N	2.44	0.82
1:A:776:ILE:HG21	1:A:816:PHE:CD2	2.13	0.82
2:B:249:LEU:HB2	2:B:378:LEU:HD21	1.60	0.82
1:M:1279:ILE:CG2	1:M:1282:ILE:HD11	2.02	0.82
1:M:354:ILE:HG21	1:M:488:MET:HG3	1.61	0.82
2:N:1065:GLN:HB2	3:O:201:TRP:CZ3	2.15	0.82
1:A:1013:GLN:O	1:A:1017:THR:CG2	2.28	0.82
3:C:97:VAL:O	3:C:98:LEU:HD23	1.80	0.82
1:A:1373:LEU:O	1:A:1377:VAL:HG23	1.80	0.82
2:B:1065:GLN:HB2	3:C:201:TRP:CZ3	2.15	0.82
1:M:1373:LEU:O	1:M:1377:VAL:HG23	1.80	0.82
7:S:1:MET:HE3	7:S:80:LYS:O	1.78	0.82
4:D:105:THR:O	4:D:109:LEU:HB2	1.80	0.82
2:N:567:HIS:HA	2:N:584:ARG:HH22	1.44	0.82
3:O:97:VAL:O	3:O:98:LEU:HD23	1.79	0.82
2:B:476:LEU:HD11	2:B:484:THR:HG23	1.61	0.81
9:U:14:LEU:HD12	9:U:27:TYR:HB3	1.63	0.81
1:A:1241:ARG:HH22	1:A:1243:ARG:HH22	1.27	0.81
3:O:5:PRO:HB3	3:O:24:VAL:HG12	1.58	0.81
4:P:105:THR:O	4:P:109:LEU:HB2	1.80	0.81
1:A:568:LYS:HB2	1:A:569:PRO:CD	2.11	0.81
1:A:1221:VAL:HG11	1:A:1274:ILE:HD11	1.62	0.81
2:B:1165:ILE:HG12	4:D:13:ARG:CB	2.11	0.81
2:B:1217:TYR:HH	4:D:14:ARG:HA	1.41	0.81
3:C:100:LEU:HD13	3:C:118:LEU:HD23	1.62	0.81
5:E:89:ILE:CG2	5:E:118:SER:HB2	2.09	0.81
7:G:127:PRO:HG2	7:G:138:THR:HG21	1.63	0.81
1:M:568:LYS:HB3	8:T:94:TYR:HA	1.61	0.81
3:O:100:LEU:HD13	3:O:118:LEU:HD23	1.63	0.81
5:Q:89:ILE:CG2	5:Q:118:SER:HB2	2.09	0.81
9:U:75:CYS:HG	9:U:78:CYS:HG	1.28	0.81
1:A:1191:SER:O	1:A:1243:ARG:HD3	1.80	0.81
1:A:766:VAL:HG21	1:A:809:LEU:HD11	1.60	0.81
1:M:568:LYS:HB3	8:T:95:VAL:H	1.46	0.81
1:M:1441:THR:CG2	2:N:1144:ALA:HB3	2.11	0.81
7:S:127:PRO:HG2	7:S:138:THR:HG21	1.63	0.81
1:M:37:TYR:HB2	1:M:52:GLY:HA3	1.63	0.81
8:T:40:LEU:HD22	8:T:122:MET:HE3	1.60	0.81
2:B:52:GLU:HG3	2:B:53:GLU:H	1.46	0.81
2:B:899:ILE:HD11	2:B:911:ILE:HG23	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:447:ARG:HD2	1:M:481:ALA:HB2	1.62	0.81
1:M:1013:GLN:O	1:M:1017:THR:CG2	2.28	0.81
2:N:1114:LEU:CD1	2:N:1202:LEU:HD11	2.10	0.81
1:A:568:LYS:HB3	8:H:95:VAL:H	1.46	0.81
9:I:14:LEU:HD12	9:I:27:TYR:HB3	1.62	0.81
1:M:568:LYS:HB2	1:M:569:PRO:CD	2.11	0.80
1:M:801:VAL:HG22	1:M:813:GLU:HB3	1.63	0.80
1:M:1191:SER:O	1:M:1243:ARG:HD3	1.80	0.80
1:M:1447:MET:O	6:R:133:VAL:HG23	1.82	0.80
2:N:942:ARG:HB2	2:N:945:GLU:HG3	1.62	0.80
1:A:529:LEU:O	1:A:532:VAL:HG12	1.82	0.80
2:B:596:LEU:HD13	2:B:601:ALA:HB3	1.63	0.80
1:M:14:VAL:HG21	2:N:1216:LEU:HD12	1.64	0.80
2:N:52:GLU:HG3	2:N:53:GLU:H	1.46	0.80
10:J:42:ARG:HD3	10:J:42:ARG:H	1.45	0.80
2:N:476:LEU:HD11	2:N:484:THR:HG23	1.61	0.80
3:O:244:PHE:O	3:O:248:ILE:HG13	1.81	0.80
9:U:34:TYR:CD2	9:U:35:THR:N	2.44	0.80
1:A:710:THR:HG22	1:A:712:ARG:H	1.46	0.80
3:C:104:HIS:CB	3:C:148:ARG:O	2.30	0.80
1:M:240:LEU:HD12	1:M:241:PRO:HD2	1.61	0.80
2:N:1223:VAL:O	2:N:1224:SER:HB2	1.79	0.80
1:A:37:TYR:HB2	1:A:52:GLY:HA3	1.63	0.80
1:A:769:GLN:CG	1:A:817:HIS:HA	2.11	0.80
1:M:256:THR:H	2:N:935:ARG:HH12	1.27	0.80
2:N:899:ILE:HD11	2:N:911:ILE:HG23	1.62	0.80
2:N:800:GLN:HG2	10:V:51:THR:HG22	1.64	0.80
10:V:16:ASP:OD1	10:V:17:LYS:HD2	1.81	0.80
2:B:567:HIS:HA	2:B:584:ARG:HH22	1.44	0.80
2:B:1223:VAL:O	2:B:1224:SER:HB2	1.79	0.80
10:J:16:ASP:OD1	10:J:17:LYS:HD2	1.81	0.80
1:A:568:LYS:HB3	8:H:94:TYR:HA	1.61	0.80
2:B:575:VAL:HG22	2:B:619:ILE:HG21	1.64	0.80
2:B:852:ARG:HH22	12:L:72:THR:C	1.86	0.80
6:F:109:VAL:HG12	6:F:110:ASP:N	1.96	0.80
11:K:43:ALA:CB	11:K:61:TYR:CD1	2.47	0.80
1:M:568:LYS:HB3	8:T:95:VAL:N	1.97	0.80
2:N:206:GLN:NE2	2:N:492:ASN:HB3	1.96	0.80
2:N:575:VAL:HG22	2:N:619:ILE:HG21	1.64	0.80
3:O:104:HIS:CB	3:O:148:ARG:O	2.30	0.80
7:S:89:ALA:HB2	7:S:103:VAL:HA	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:VAL:HG21	2:B:1216:LEU:HD12	1.63	0.80
1:A:24:PRO:O	1:A:27:ILE:HG23	1.81	0.80
1:A:447:ARG:HD2	1:A:481:ALA:HB2	1.62	0.80
1:A:568:LYS:HB3	8:H:95:VAL:N	1.97	0.80
1:A:1142:TYR:CG	1:A:1279:ILE:O	2.35	0.80
2:B:1215:ARG:NH1	4:D:15:ALA:HB2	1.97	0.80
12:L:51:LYS:O	12:L:52:GLU:HB2	1.81	0.80
2:B:206:GLN:NE2	2:B:492:ASN:HB3	1.96	0.79
2:B:942:ARG:HB2	2:B:945:GLU:HG3	1.62	0.79
3:C:244:PHE:O	3:C:248:ILE:HG13	1.81	0.79
5:E:134:PHE:HB3	5:E:139:LEU:HD11	1.64	0.79
1:M:822:ARG:NE	2:N:505:ARG:O	2.14	0.79
2:B:893:LEU:HD11	2:B:910:ILE:CG1	2.13	0.79
2:B:1166:CYS:HB3	4:D:15:ALA:HA	1.63	0.79
2:B:371:LEU:O	2:B:375:VAL:HG23	1.81	0.79
2:B:1004:GLU:HB2	2:B:1006:ILE:HG12	1.64	0.79
3:C:47:LEU:CB	3:C:158:ILE:CG2	2.54	0.79
1:M:529:LEU:O	1:M:532:VAL:HG12	1.82	0.79
1:M:1221:VAL:HG11	1:M:1274:ILE:HD11	1.62	0.79
2:N:325:PHE:O	2:N:326:ILE:HG13	1.82	0.79
2:N:893:LEU:HD11	2:N:910:ILE:CG1	2.13	0.79
10:V:42:ARG:H	10:V:42:ARG:HD3	1.45	0.79
1:M:710:THR:HG22	1:M:712:ARG:H	1.46	0.79
1:A:1453:LEU:HD21	7:G:18:PHE:HB3	1.64	0.79
2:N:371:LEU:O	2:N:375:VAL:HG23	1.81	0.79
6:R:109:VAL:HG12	6:R:110:ASP:N	1.95	0.79
1:A:40:ILE:HB	1:A:41:MET:HE1	1.65	0.79
1:A:41:MET:HB3	1:A:49:ARG:CA	2.12	0.79
1:A:86:LEU:HD21	1:A:240:LEU:HB2	1.64	0.79
1:A:240:LEU:HD12	1:A:241:PRO:HD2	1.61	0.79
1:A:797:SER:O	1:A:816:PHE:CE1	2.36	0.79
1:A:801:VAL:HG13	1:A:809:LEU:HG	1.65	0.79
2:B:778:MET:CE	2:B:1094:ARG:HD3	2.13	0.79
2:B:1207:LEU:HB3	2:B:1212:ILE:CG2	2.13	0.79
2:N:596:LEU:HD13	2:N:601:ALA:HB3	1.63	0.79
8:T:14:THR:O	8:T:26:ILE:HG23	1.83	0.79
1:A:568:LYS:CB	8:H:94:TYR:HA	2.13	0.79
2:B:800:GLN:HG2	10:J:51:THR:HG22	1.64	0.79
3:C:65:ARG:NH1	10:J:2:ILE:HG21	1.98	0.79
2:N:1004:GLU:HB2	2:N:1006:ILE:HG12	1.64	0.79
5:Q:134:PHE:HB3	5:Q:139:LEU:HD11	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:89:ALA:HB2	7:G:103:VAL:HA	1.64	0.79
1:M:61:ILE:HG22	1:M:62:ASP:H	1.48	0.79
2:N:778:MET:CE	2:N:1094:ARG:HD3	2.13	0.79
1:A:538:ARG:HH22	8:H:121:LEU:HD12	1.48	0.79
1:M:838:ILE:HA	1:M:841:ARG:HD3	1.65	0.79
1:A:61:ILE:HG22	1:A:62:ASP:H	1.47	0.78
1:A:985:ILE:O	1:A:989:ILE:HG23	1.83	0.78
4:D:49:ILE:HG21	7:G:4:LEU:HB2	1.65	0.78
2:N:1129:ARG:HG2	2:N:1131:GLY:H	1.47	0.78
12:X:51:LYS:O	12:X:52:GLU:HB2	1.81	0.78
2:B:491:THR:HG22	2:B:530:LYS:H	1.49	0.78
2:N:852:ARG:HH22	12:X:72:THR:C	1.86	0.78
2:N:1207:LEU:HB3	2:N:1212:ILE:CG2	2.13	0.78
1:A:606:MET:HE3	1:A:607:LEU:H	1.46	0.78
5:E:89:ILE:HG23	5:E:119:ALA:CA	2.11	0.78
1:M:333:LYS:O	1:M:334:GLU:HB2	1.83	0.78
1:M:568:LYS:CB	8:T:94:TYR:HA	2.13	0.78
5:E:25:ARG:HH22	5:E:132:GLU:CD	1.87	0.78
1:M:413:ARG:HH22	2:N:1108:ARG:HH22	1.32	0.78
1:M:985:ILE:O	1:M:989:ILE:HG23	1.83	0.78
2:N:491:THR:HG22	2:N:530:LYS:H	1.49	0.78
5:Q:25:ARG:HH22	5:Q:132:GLU:CD	1.87	0.78
7:G:111:SER:HB2	7:G:114:LEU:HD13	1.66	0.78
1:A:838:ILE:HA	1:A:841:ARG:HD3	1.64	0.78
2:B:1129:ARG:HG2	2:B:1131:GLY:H	1.47	0.78
8:H:14:THR:O	8:H:26:ILE:HG23	1.83	0.78
4:P:49:ILE:HG21	7:S:4:LEU:HB2	1.65	0.78
1:A:684:ILE:HD13	1:A:802:GLU:HG3	1.65	0.78
2:B:325:PHE:O	2:B:326:ILE:HG13	1.82	0.78
2:B:797:TYR:C	2:B:798:TYR:HD2	1.87	0.78
1:M:1397:THR:CG2	1:M:1401:MET:SD	2.72	0.78
1:A:373:LYS:HA	1:A:436:HIS:ND1	1.99	0.78
1:M:41:MET:HB3	1:M:49:ARG:CA	2.12	0.78
1:A:413:ARG:HH22	2:B:1108:ARG:HH22	1.32	0.78
1:A:568:LYS:CG	1:A:569:PRO:HD2	2.13	0.78
1:A:1136:ILE:HG22	1:A:1140:ILE:HD11	1.66	0.78
3:C:99:GLU:CG	3:C:121:VAL:CG2	2.62	0.78
7:G:45:ILE:HA	7:G:78:VAL:HG12	1.66	0.78
1:M:24:PRO:O	1:M:27:ILE:HG23	1.84	0.78
1:M:538:ARG:HH22	8:T:121:LEU:HD12	1.48	0.78
1:M:766:VAL:HG23	1:M:803:ASN:O	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:758:PHE:HB2	2:N:1024:ALA:HB1	1.64	0.78
2:B:387:ASP:OD2	9:I:91:ARG:HB3	1.84	0.78
2:B:514:LEU:HB3	2:B:626:VAL:HG11	1.65	0.78
3:O:65:ARG:NH1	10:V:2:ILE:HG21	1.98	0.78
1:A:902:LEU:HB2	1:A:927:GLN:HG2	1.66	0.77
7:G:138:THR:CG2	7:G:139:LYS:N	2.45	0.77
1:M:373:LYS:HA	1:M:436:HIS:ND1	1.99	0.77
1:M:822:ARG:HH11	1:M:822:ARG:HB2	1.49	0.77
3:O:99:GLU:CG	3:O:121:VAL:CG2	2.62	0.77
1:A:597:SER:O	1:A:599:LEU:N	2.18	0.77
1:A:766:VAL:HG23	1:A:803:ASN:O	1.84	0.77
1:A:809:LEU:HD23	1:A:814:PHE:HA	1.66	0.77
1:A:822:ARG:HB2	1:A:822:ARG:HH11	1.49	0.77
2:B:307:LYS:O	2:B:310:ILE:CG2	2.30	0.77
2:B:890:TYR:CG	2:B:910:ILE:HG21	2.20	0.77
3:C:99:GLU:CB	3:C:119:ILE:HG23	2.10	0.77
5:Q:28:PHE:O	5:Q:29:ILE:HG13	1.84	0.77
2:B:387:ASP:OD2	9:I:91:ARG:CB	2.31	0.77
1:M:86:LEU:HD21	1:M:240:LEU:HB2	1.64	0.77
1:M:606:MET:HE3	1:M:607:LEU:H	1.50	0.77
1:M:902:LEU:HB2	1:M:927:GLN:HG2	1.66	0.77
1:M:1163:THR:HG22	1:M:1165:ILE:H	1.50	0.77
2:N:890:TYR:CG	2:N:910:ILE:HG21	2.20	0.77
2:B:758:PHE:HB2	2:B:1024:ALA:HB1	1.64	0.77
11:W:43:ALA:CB	11:W:61:TYR:CD1	2.47	0.77
11:W:47:ARG:HD3	11:W:59:VAL:O	1.85	0.77
1:A:1453:LEU:HD21	7:G:18:PHE:CB	2.14	0.77
1:M:400:HIS:HB3	1:M:401:PRO:HD3	1.67	0.77
1:M:597:SER:O	1:M:599:LEU:N	2.18	0.77
2:N:797:TYR:C	2:N:798:TYR:HD2	1.87	0.77
2:N:899:ILE:HG22	2:N:903:VAL:HG21	1.66	0.77
1:A:1163:THR:HG22	1:A:1165:ILE:H	1.50	0.77
2:B:357:ILE:O	2:B:358:THR:HB	1.83	0.77
2:B:701:ALA:HB2	2:B:738:PHE:CD2	2.19	0.77
1:M:568:LYS:CG	1:M:569:PRO:HD2	2.13	0.77
1:A:1074:ILE:HD11	1:A:1371:MET:HA	1.66	0.77
1:M:1155:TYR:HB2	1:M:1194:LEU:HD23	1.66	0.77
2:B:846:ILE:HG23	2:B:974:PRO:HG2	1.65	0.77
11:K:47:ARG:HD3	11:K:59:VAL:O	1.85	0.77
1:M:1136:ILE:HG22	1:M:1140:ILE:HD11	1.66	0.77
2:N:357:ILE:O	2:N:358:THR:HB	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:710:THR:HG21	9:U:93:LYS:O	1.85	0.77
1:M:809:LEU:HD23	1:M:814:PHE:HA	1.66	0.77
2:N:514:LEU:HB3	2:N:626:VAL:HG11	1.66	0.77
5:Q:89:ILE:HG23	5:Q:119:ALA:H	1.50	0.77
1:A:1448:ILE:HG21	7:G:18:PHE:CE2	2.18	0.77
3:C:44:ALA:HA	3:C:71:LEU:HD12	1.66	0.77
4:D:140:PHE:HZ	7:G:85:GLU:HG3	1.49	0.77
3:O:38:ALA:HA	3:O:164:ALA:HB3	1.67	0.77
3:O:44:ALA:HA	3:O:71:LEU:HD12	1.65	0.77
8:T:134:LEU:HD13	8:T:136:GLN:HE21	1.47	0.77
1:A:1450:GLU:HG3	7:G:22:MET:CG	2.15	0.76
3:C:38:ALA:HA	3:C:164:ALA:HB3	1.67	0.76
5:E:28:PHE:O	5:E:29:ILE:HG13	1.84	0.76
8:H:63:LEU:C	8:H:89:ALA:HB3	2.05	0.76
1:M:320:GLY:HA2	2:N:464:LYS:HG2	1.67	0.76
2:N:287:GLY:N	2:N:290:LEU:HD23	1.99	0.76
1:A:333:LYS:O	1:A:334:GLU:HB2	1.83	0.76
8:H:134:LEU:HD13	8:H:136:GLN:HE21	1.47	0.76
1:M:58:LEU:HD22	1:M:80:HIS:O	1.85	0.76
7:S:111:SER:HB2	7:S:114:LEU:HD13	1.65	0.76
1:A:400:HIS:HB3	1:A:401:PRO:HD3	1.67	0.76
1:M:483:PHE:O	2:N:989:THR:HG23	1.86	0.76
1:M:684:ILE:HD13	1:M:802:GLU:HG3	1.65	0.76
5:E:123:ILE:CG1	5:E:124:PRO:N	2.43	0.76
1:M:309:ILE:HG22	1:M:310:ALA:H	1.50	0.76
2:N:846:ILE:HG23	2:N:974:PRO:HG2	1.65	0.76
8:T:63:LEU:C	8:T:89:ALA:HB3	2.05	0.76
1:A:710:THR:HG21	9:I:93:LYS:O	1.85	0.76
2:B:33:GLN:HG3	2:B:34:GLN:H	1.50	0.76
2:N:843:GLN:HA	2:N:846:ILE:HD12	1.66	0.76
1:A:504:GLN:HE21	6:F:90:ARG:HH21	1.33	0.76
1:A:801:VAL:CG1	1:A:809:LEU:CG	2.63	0.76
2:B:287:GLY:N	2:B:290:LEU:HD23	1.99	0.76
2:N:1094:ARG:HH21	2:N:1098:MET:HG2	1.50	0.76
4:P:140:PHE:HZ	7:S:85:GLU:HG3	1.49	0.76
5:Q:89:ILE:HG23	5:Q:119:ALA:CA	2.10	0.76
7:S:45:ILE:HA	7:S:78:VAL:HG12	1.66	0.76
7:S:138:THR:CG2	7:S:139:LYS:N	2.45	0.76
2:B:899:ILE:HG22	2:B:903:VAL:HG21	1.66	0.76
2:B:1094:ARG:HH21	2:B:1098:MET:HG2	1.51	0.76
1:M:989:ILE:CG1	1:M:990:HIS:N	2.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:900:VAL:HG22	1:A:1031:ARG:HG2	1.67	0.76
1:A:1441:THR:CB	2:B:1144:ALA:CB	2.62	0.76
3:C:104:HIS:CB	3:C:149:ASN:O	2.34	0.76
3:C:236:GLY:O	3:C:238:LEU:N	2.19	0.76
5:E:116:THR:HG22	5:E:118:SER:H	1.51	0.76
1:M:55:ASP:CG	1:M:55:ASP:O	2.20	0.76
2:N:33:GLN:HG3	2:N:34:GLN:H	1.50	0.76
3:O:104:HIS:CB	3:O:149:ASN:O	2.34	0.76
2:B:356:HIS:O	2:B:357:ILE:HB	1.86	0.76
1:M:1074:ILE:HD11	1:M:1371:MET:HA	1.66	0.76
1:A:41:MET:HA	1:A:50:GLU:H	1.50	0.76
1:A:989:ILE:CG1	1:A:990:HIS:N	2.49	0.76
1:A:1279:ILE:HG23	1:A:1282:ILE:HD12	1.68	0.76
2:B:24:PHE:HE1	2:B:28:LYS:HG3	1.51	0.76
2:B:279:ARG:HG2	2:B:284:VAL:HA	1.67	0.76
2:N:24:PHE:HE1	2:N:28:LYS:HG3	1.51	0.76
1:A:309:ILE:HG22	1:A:310:ALA:H	1.50	0.75
7:G:89:ALA:HB2	7:G:103:VAL:HG22	1.68	0.75
1:M:303:THR:HG22	1:M:304:TYR:N	2.01	0.75
1:A:483:PHE:O	2:B:989:THR:HG23	1.86	0.75
9:I:50:THR:HG22	9:I:51:ASN:H	1.50	0.75
1:M:41:MET:HA	1:M:50:GLU:H	1.50	0.75
2:N:701:ALA:HB2	2:N:738:PHE:CD2	2.19	0.75
5:Q:123:ILE:CG1	5:Q:124:PRO:N	2.48	0.75
9:U:50:THR:HG22	9:U:51:ASN:H	1.50	0.75
10:V:35:LEU:HB2	10:V:46:ARG:HH12	1.51	0.75
2:B:392:ASP:OD2	2:B:503:LYS:HD2	1.86	0.75
2:B:843:GLN:HA	2:B:846:ILE:HD12	1.66	0.75
2:N:744:HIS:HD2	2:N:746:SER:OG	1.69	0.75
5:Q:116:THR:HG22	5:Q:118:SER:H	1.51	0.75
1:M:383:GLN:HB3	1:M:429:TYR:HE2	1.51	0.75
1:A:55:ASP:CG	1:A:55:ASP:O	2.20	0.75
3:C:165:LYS:O	11:K:6:ARG:NH1	2.19	0.75
1:M:1449:ASP:HB3	1:M:1452:LEU:CG	2.16	0.75
3:O:236:GLY:O	3:O:238:LEU:N	2.19	0.75
2:B:251:GLY:O	2:B:259:ARG:HD3	1.87	0.75
8:H:99:THR:HG23	8:H:137:ASP:HA	1.67	0.75
3:O:47:LEU:CB	3:O:158:ILE:CG2	2.54	0.75
10:V:42:ARG:HD3	10:V:42:ARG:N	2.02	0.75
1:A:58:LEU:HD22	1:A:80:HIS:O	1.85	0.75
1:A:1449:ASP:HB3	1:A:1452:LEU:CG	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:859:ASN:ND2	1:M:861:LEU:H	1.84	0.75
3:O:165:LYS:O	11:W:6:ARG:NH1	2.19	0.75
7:S:88:ASP:HB3	7:S:144:ARG:CA	2.15	0.75
1:A:383:GLN:HB3	1:A:429:TYR:HE2	1.51	0.75
1:A:444:LEU:HD23	1:A:502:LEU:HD21	1.69	0.75
1:A:1351:LEU:O	1:A:1355:ILE:HG22	1.87	0.75
2:B:1016:ALA:O	2:B:1020:ARG:HG3	1.87	0.75
7:G:13:LEU:HD21	7:G:17:TYR:HB2	1.69	0.75
1:A:1155:TYR:HB2	1:A:1194:LEU:HD23	1.66	0.75
2:B:980:PHE:CE2	2:B:1094:ARG:HG3	2.22	0.75
2:B:1166:CYS:SG	13:B:1301:ZN:ZN	1.75	0.75
10:J:35:LEU:HB2	10:J:46:ARG:HH12	1.51	0.75
1:M:63:ARG:HA	1:M:74:MET:HE1	1.68	0.75
8:T:88:LEU:C	8:T:90:ASP:H	1.90	0.75
1:A:253:MET:O	1:A:254:ASP:HB2	1.86	0.74
1:A:495:SER:O	1:A:499:ARG:HG3	1.86	0.74
2:B:744:HIS:HD2	2:B:746:SER:OG	1.69	0.74
10:J:42:ARG:HD3	10:J:42:ARG:N	2.02	0.74
1:A:776:ILE:HD11	1:A:816:PHE:HB3	1.69	0.74
1:A:859:ASN:ND2	1:A:861:LEU:H	1.84	0.74
2:B:1114:LEU:O	2:B:1202:LEU:HD12	1.88	0.74
5:E:89:ILE:HG23	5:E:119:ALA:H	1.51	0.74
1:M:1129:ASP:HB3	1:M:1132:LYS:HB3	1.69	0.74
2:N:356:HIS:O	2:N:357:ILE:HB	1.87	0.74
2:N:980:PHE:CE2	2:N:1094:ARG:HG3	2.22	0.74
1:A:35:ILE:HG22	1:A:35:ILE:O	1.86	0.74
2:B:1220:ARG:NH1	2:B:1220:ARG:HB3	2.02	0.74
9:I:34:TYR:HD2	9:I:35:THR:H	1.34	0.74
2:N:503:LYS:HG2	2:N:504:PRO:CD	2.17	0.74
1:A:303:THR:HG22	1:A:304:TYR:N	2.01	0.74
1:A:672:ALA:HB3	1:A:677:MET:HG2	1.70	0.74
1:A:801:VAL:HG11	1:A:809:LEU:CG	2.16	0.74
1:A:1129:ASP:HB3	1:A:1132:LYS:HB3	1.69	0.74
11:K:56:VAL:HA	11:K:77:THR:HG22	1.69	0.74
1:M:354:ILE:CG2	1:M:488:MET:HG3	2.17	0.74
2:N:484:THR:O	2:N:488:LEU:HD12	1.86	0.74
3:O:65:ARG:HH21	10:V:5:VAL:HG23	1.52	0.74
6:R:109:VAL:HG11	6:R:123:LYS:HG2	1.70	0.74
7:S:89:ALA:HB2	7:S:103:VAL:HG22	1.68	0.74
1:A:1450:GLU:HG2	7:G:22:MET:HB3	1.70	0.74
2:B:1202:LEU:HD23	2:B:1206:GLU:HG3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:40:LEU:HD22	8:H:122:MET:HE3	1.67	0.74
2:N:251:GLY:O	2:N:259:ARG:HD3	1.87	0.74
2:N:1114:LEU:HD11	2:N:1202:LEU:HD11	1.66	0.74
2:N:1220:ARG:HB3	2:N:1220:ARG:NH1	2.02	0.74
5:Q:201:SER:OG	5:Q:203:THR:HG22	1.87	0.74
7:S:89:ALA:HB2	7:S:103:VAL:CA	2.17	0.74
1:M:253:MET:O	1:M:254:ASP:HB2	1.86	0.74
1:M:495:SER:O	1:M:499:ARG:HG3	1.86	0.74
2:N:457:GLY:O	2:N:470:ALA:HA	1.87	0.74
1:A:16:GLU:HG2	1:A:1421:LEU:HD11	1.70	0.74
1:A:318:LYS:O	1:A:319:SER:HB3	1.88	0.74
1:A:1032:ARG:HG2	1:A:1036:GLU:OE2	1.88	0.74
2:B:810:GLU:HB2	2:B:815:ARG:HH22	1.53	0.74
3:C:65:ARG:HH21	10:J:5:VAL:HG23	1.52	0.74
1:M:900:VAL:HG22	1:M:1031:ARG:HG2	1.67	0.74
2:N:782:LEU:HD12	2:N:788:ARG:NH1	2.03	0.74
8:T:99:THR:HG23	8:T:137:ASP:HA	1.67	0.74
1:A:1146:LYS:HB2	1:A:1271:LEU:O	1.88	0.74
6:F:109:VAL:HG11	6:F:123:LYS:HG2	1.70	0.74
8:H:88:LEU:C	8:H:90:ASP:H	1.90	0.74
1:M:318:LYS:O	1:M:319:SER:HB3	1.88	0.74
1:M:1351:LEU:O	1:M:1355:ILE:HG22	1.87	0.74
1:A:536:THR:HG21	1:A:617:VAL:HA	1.70	0.74
2:B:457:GLY:O	2:B:470:ALA:HA	1.87	0.74
5:E:201:SER:OG	5:E:203:THR:HG22	1.86	0.74
9:I:61:ASP:O	9:I:64:GLN:CG	2.36	0.74
1:M:35:ILE:O	1:M:35:ILE:HG22	1.86	0.74
1:M:1146:LYS:HB2	1:M:1271:LEU:O	1.88	0.74
1:A:776:ILE:HG23	1:A:819:MET:SD	2.27	0.74
1:A:1450:GLU:CG	7:G:22:MET:SD	2.76	0.74
2:B:1069:PHE:H	2:B:1069:PHE:HD1	1.35	0.74
7:G:89:ALA:HB2	7:G:103:VAL:CA	2.17	0.74
1:M:16:GLU:HG2	1:M:1421:LEU:HD11	1.70	0.74
2:N:229:ALA:HB3	2:N:247:ILE:HG23	1.68	0.74
2:B:782:LEU:HD12	2:B:788:ARG:NH1	2.03	0.73
1:M:357:ASP:HB2	1:M:470:ARG:HH11	1.53	0.73
1:M:444:LEU:HD23	1:M:502:LEU:HD21	1.69	0.73
1:M:1032:ARG:HG2	1:M:1036:GLU:OE2	1.88	0.73
2:N:35:LEU:HD23	2:N:164:MET:SD	2.28	0.73
2:N:1016:ALA:O	2:N:1020:ARG:HG3	1.87	0.73
2:N:1202:LEU:HD23	2:N:1206:GLU:HG3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:PRO:O	1:A:323:VAL:HB	1.88	0.73
1:A:357:ASP:HB2	1:A:470:ARG:HH11	1.53	0.73
1:A:568:LYS:HD3	8:H:94:TYR:CG	2.23	0.73
2:B:35:LEU:HD23	2:B:164:MET:SD	2.28	0.73
2:B:882:THR:O	2:B:883:LEU:HB2	1.87	0.73
1:M:444:LEU:HD23	1:M:502:LEU:CD2	2.19	0.73
1:M:568:LYS:HD3	8:T:94:TYR:CG	2.24	0.73
1:M:672:ALA:HB3	1:M:677:MET:HG2	1.70	0.73
2:N:802:PRO:HA	2:N:822:ASN:HD21	1.52	0.73
2:N:810:GLU:HB2	2:N:815:ARG:HH22	1.53	0.73
11:W:56:VAL:HA	11:W:77:THR:HG22	1.69	0.73
1:A:354:ILE:CG2	1:A:488:MET:HG3	2.17	0.73
1:A:444:LEU:HD23	1:A:502:LEU:CD2	2.19	0.73
1:A:630:LEU:O	1:A:633:THR:HG23	1.88	0.73
2:B:202:VAL:HG23	2:B:476:LEU:HB2	1.70	0.73
1:M:536:THR:HG21	1:M:617:VAL:HA	1.70	0.73
1:M:568:LYS:HB3	8:T:94:TYR:CA	2.18	0.73
1:M:1215:ALA:HB1	1:M:1230:TRP:CZ3	2.23	0.73
2:N:279:ARG:HG2	2:N:284:VAL:HA	1.67	0.73
2:N:889:THR:HG22	2:N:891:GLU:H	1.53	0.73
1:A:606:MET:HE3	1:A:607:LEU:N	2.02	0.73
3:C:99:GLU:HB2	3:C:119:ILE:HG21	1.68	0.73
1:M:91:PHE:H	1:M:298:GLN:HE22	1.37	0.73
1:M:738:LEU:HD13	1:M:742:ASN:OD1	1.88	0.73
1:M:1441:THR:HG21	2:N:1144:ALA:HB3	1.70	0.73
1:A:799:GLY:N	1:A:816:PHE:CD1	2.56	0.73
1:A:856:THR:HG21	1:A:858:ARG:HE	1.53	0.73
1:M:322:PRO:O	1:M:323:VAL:HB	1.88	0.73
4:P:53:LEU:O	4:P:55:GLU:N	2.20	0.73
7:S:13:LEU:HD21	7:S:17:TYR:HB2	1.69	0.73
9:U:61:ASP:O	9:U:64:GLN:CG	2.36	0.73
1:A:1367:ASN:HD22	1:A:1368:TYR:N	1.87	0.73
2:B:503:LYS:HG2	2:B:504:PRO:CD	2.17	0.73
11:K:53:TYR:C	11:K:55:ASP:H	1.92	0.73
1:M:856:THR:HG21	1:M:858:ARG:HE	1.53	0.73
1:M:1316:LEU:HD23	1:M:1341:VAL:HG21	1.70	0.73
1:M:1423:ASP:O	1:M:1424:CYS:HB2	1.88	0.73
1:A:512:ILE:HA	1:A:522:MET:HE3	1.70	0.73
1:A:568:LYS:HB3	8:H:94:TYR:CA	2.17	0.73
2:B:484:THR:O	2:B:488:LEU:HD12	1.86	0.73
1:M:606:MET:HE3	1:M:607:LEU:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:630:LEU:O	1:M:633:THR:HG23	1.88	0.73
1:M:886:THR:O	1:M:941:ARG:HD2	1.88	0.73
1:M:902:LEU:H	1:M:927:GLN:NE2	1.87	0.73
1:A:91:PHE:H	1:A:298:GLN:HE22	1.36	0.73
1:A:357:ASP:HB2	1:A:470:ARG:NH1	2.04	0.73
1:A:738:LEU:HD13	1:A:742:ASN:OD1	1.88	0.73
1:A:886:THR:O	1:A:941:ARG:HD2	1.88	0.73
2:B:552:GLU:HA	2:B:556:MET:HB3	1.71	0.73
2:B:1172:ILE:HG22	2:B:1172:ILE:O	1.88	0.73
7:G:88:ASP:HB3	7:G:144:ARG:CA	2.15	0.73
5:Q:47:ASP:CG	5:Q:48:SER:H	1.92	0.73
11:W:53:TYR:C	11:W:55:ASP:H	1.92	0.73
1:A:667:ILE:HD12	1:A:668:GLY:H	1.53	0.73
2:B:229:ALA:HB3	2:B:247:ILE:HG23	1.68	0.73
2:B:882:THR:HG22	2:B:884:ARG:H	1.53	0.73
2:B:1162:VAL:HG12	2:B:1163:CYS:N	2.04	0.73
2:N:202:VAL:HG23	2:N:476:LEU:HB2	1.71	0.73
2:N:1116:ARG:CZ	2:N:1198:TYR:HE1	2.01	0.73
1:M:671:ILE:HG23	1:M:806:LEU:HD21	1.71	0.73
6:R:97:ARG:O	6:R:101:ILE:HG13	1.89	0.73
8:T:88:LEU:O	8:T:90:ASP:N	2.21	0.73
7:G:127:PRO:HG2	7:G:138:THR:CG2	2.19	0.72
1:M:357:ASP:HB2	1:M:470:ARG:NH1	2.04	0.72
1:M:1264:LYS:O	1:M:1267:GLU:HB3	1.88	0.72
2:N:890:TYR:HA	2:N:910:ILE:HG23	1.69	0.72
1:A:671:ILE:HG23	1:A:806:LEU:HD21	1.71	0.72
1:A:780:PHE:HE1	1:A:786:PRO:CD	2.00	0.72
1:A:802:GLU:N	1:A:813:GLU:OE1	2.22	0.72
1:A:1264:LYS:O	1:A:1267:GLU:HB3	1.88	0.72
2:B:290:LEU:HD22	2:B:290:LEU:N	2.04	0.72
2:B:889:THR:HG22	2:B:891:GLU:H	1.53	0.72
2:B:890:TYR:HA	2:B:910:ILE:HG23	1.69	0.72
5:E:47:ASP:CG	5:E:48:SER:H	1.92	0.72
1:M:1367:ASN:HD22	1:M:1368:TYR:N	1.87	0.72
1:A:1215:ALA:HB1	1:A:1230:TRP:CZ3	2.23	0.72
1:A:1423:ASP:O	1:A:1424:CYS:HB2	1.87	0.72
2:B:12:ILE:HD11	2:B:647:ILE:CG1	2.17	0.72
3:C:112:ASP:HB2	3:C:114:TYR:CE1	2.24	0.72
2:N:882:THR:O	2:N:883:LEU:HB2	1.87	0.72
3:O:141:GLY:C	3:O:142:ILE:CG1	2.56	0.72
9:U:34:TYR:HD2	9:U:35:THR:H	1.34	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:175:ALA:HB2	10:J:10:CYS:HB2	1.72	0.72
6:F:97:ARG:O	6:F:101:ILE:HG13	1.89	0.72
8:H:141:ILE:C	8:H:142:LEU:HD12	2.10	0.72
1:M:134:ARG:O	1:M:138:VAL:HG23	1.88	0.72
1:M:442:PRO:HD2	1:M:499:ARG:NH2	2.05	0.72
1:A:442:PRO:HD2	1:A:499:ARG:NH2	2.05	0.72
1:A:902:LEU:H	1:A:927:GLN:NE2	1.87	0.72
2:N:859:TYR:OH	2:N:941:LEU:HD12	1.89	0.72
3:O:175:ALA:HB2	10:V:10:CYS:HB2	1.72	0.72
1:A:134:ARG:O	1:A:138:VAL:HG23	1.88	0.72
1:A:859:ASN:C	1:A:859:ASN:HD22	1.91	0.72
7:G:14:HIS:CD2	7:G:16:SER:HB3	2.24	0.72
11:K:90:ALA:O	11:K:94:ILE:HG13	1.90	0.72
2:N:12:ILE:HD11	2:N:647:ILE:CG1	2.17	0.72
2:B:266:PRO:CG	2:B:352:GLU:HB3	2.20	0.72
2:B:802:PRO:HA	2:B:822:ASN:HD21	1.52	0.72
1:M:780:PHE:HE1	1:M:786:PRO:CD	2.00	0.72
2:N:552:GLU:HA	2:N:556:MET:HB3	1.71	0.72
3:O:147:LEU:HD23	3:O:147:LEU:N	2.04	0.72
3:O:155:ILE:O	3:O:156:ARG:CG	2.37	0.72
2:B:394:PHE:CD1	2:B:511:HIS:HE1	2.08	0.72
7:G:91:VAL:HB	7:G:139:LYS:O	1.89	0.72
2:N:1162:VAL:HG12	2:N:1163:CYS:N	2.05	0.72
1:M:864:ILE:CG2	5:Q:175:PRO:HD3	2.18	0.72
7:S:14:HIS:CD2	7:S:16:SER:HB3	2.24	0.72
2:B:859:TYR:OH	2:B:941:LEU:HD12	1.89	0.72
3:C:141:GLY:C	3:C:142:ILE:CG1	2.58	0.72
1:M:12:ARG:HE	2:N:1192:TYR:HE2	1.36	0.72
1:M:55:ASP:C	1:M:57:LYS:N	2.40	0.72
3:O:112:ASP:HB2	3:O:114:TYR:CE1	2.24	0.72
2:B:113:SER:OG	2:B:163:ILE:HD11	1.90	0.71
3:C:99:GLU:CG	3:C:121:VAL:HG21	2.20	0.71
10:J:1:MET:H1	10:J:56:ILE:H	1.38	0.71
10:J:47:ARG:HE	10:J:48:MET:HE2	1.54	0.71
7:S:80:LYS:HE2	7:S:80:LYS:N	2.04	0.71
1:M:53:LEU:CD2	1:M:54:ASN:H	1.97	0.71
1:M:336:ARG:NH1	2:N:1202:LEU:HD22	2.05	0.71
1:M:640:PRO:HG2	1:M:641:LYS:H	1.55	0.71
1:M:667:ILE:HD12	1:M:668:GLY:H	1.53	0.71
1:M:1070:ALA:HA	1:M:1370:HIS:ND1	2.06	0.71
2:N:113:SER:OG	2:N:163:ILE:HD11	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:551:LEU:C	2:B:553:GLU:H	1.94	0.71
3:C:147:LEU:N	3:C:147:LEU:HD23	2.04	0.71
4:D:53:LEU:O	4:D:55:GLU:N	2.20	0.71
7:G:163:ILE:HG22	7:G:168:LEU:HB3	1.71	0.71
1:M:512:ILE:HA	1:M:522:MET:HE3	1.70	0.71
1:M:859:ASN:HD22	1:M:859:ASN:C	1.92	0.71
1:M:1097:THR:HG21	1:M:1114:LYS:HB2	1.72	0.71
2:N:1172:ILE:O	2:N:1172:ILE:HG22	1.88	0.71
7:S:91:VAL:HB	7:S:139:LYS:O	1.89	0.71
8:T:41:ASP:O	8:T:42:ILE:HG13	1.91	0.71
2:B:229:ALA:HB3	2:B:247:ILE:CG2	2.20	0.71
3:C:155:ILE:O	3:C:156:ARG:CG	2.37	0.71
8:H:41:ASP:O	8:H:42:ILE:HG13	1.91	0.71
1:M:1096:VAL:HG13	1:M:1115:THR:HG21	1.72	0.71
2:N:266:PRO:CG	2:N:352:GLU:HB3	2.20	0.71
2:N:290:LEU:HD22	2:N:290:LEU:N	2.04	0.71
2:N:631:PHE:HB3	2:N:645:LEU:HD22	1.71	0.71
7:S:127:PRO:HG2	7:S:138:THR:CG2	2.20	0.71
1:A:336:ARG:NH1	2:B:1202:LEU:HD22	2.05	0.71
1:A:640:PRO:HG2	1:A:641:LYS:H	1.54	0.71
2:B:631:PHE:HB3	2:B:645:LEU:HD22	1.71	0.71
2:N:1069:PHE:HD1	2:N:1069:PHE:H	1.35	0.71
1:A:1244:VAL:HG12	1:A:1245:ILE:H	1.56	0.71
4:D:160:ILE:HG22	4:D:163:LEU:HG	1.72	0.71
2:N:1007:VAL:CG2	2:N:1008:PRO:HD2	2.20	0.71
3:O:99:GLU:CG	3:O:121:VAL:HG21	2.20	0.71
8:T:141:ILE:C	8:T:142:LEU:HD12	2.10	0.71
1:A:53:LEU:CD2	1:A:54:ASN:H	1.97	0.71
1:A:799:GLY:HA2	1:A:816:PHE:HD1	0.67	0.71
1:M:565:ALA:HB2	1:M:577:GLN:OE1	1.91	0.71
1:M:599:LEU:HA	8:T:121:LEU:HD13	1.72	0.71
2:N:324:ASP:O	2:N:326:ILE:N	2.23	0.71
7:S:1:MET:HE2	7:S:3:PHE:HE1	1.54	0.71
10:V:47:ARG:HE	10:V:48:MET:HE2	1.54	0.71
11:W:90:ALA:O	11:W:94:ILE:HG13	1.90	0.71
1:A:565:ALA:HB2	1:A:577:GLN:OE1	1.91	0.71
1:A:1316:LEU:HD23	1:A:1341:VAL:HG21	1.70	0.71
2:B:1116:ARG:HG3	2:B:1198:TYR:CE2	2.25	0.71
2:B:1116:ARG:HG3	2:B:1198:TYR:CD2	2.26	0.71
4:D:66:ALA:HA	4:D:69:ARG:HD2	1.73	0.71
9:I:106:CYS:SG	9:I:107:LYS:N	2.64	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1116:ARG:CZ	2:N:1198:TYR:CE1	2.72	0.71
1:A:12:ARG:HE	2:B:1192:TYR:HE2	1.36	0.71
1:A:226:ASN:HD22	1:A:229:TYR:H	1.37	0.71
1:A:1107:LEU:CD2	1:A:1387:ILE:HG21	2.20	0.71
1:A:1244:VAL:C	1:A:1245:ILE:CG1	2.60	0.71
7:G:80:LYS:HE2	7:G:80:LYS:N	2.04	0.71
8:H:88:LEU:O	8:H:90:ASP:N	2.21	0.71
1:M:1244:VAL:HG12	1:M:1245:ILE:H	1.56	0.71
2:N:229:ALA:HB3	2:N:247:ILE:CG2	2.20	0.71
2:N:404:PRO:O	2:N:407:ALA:HB3	1.91	0.71
6:R:90:ARG:HG2	6:R:91:ALA:N	2.05	0.71
10:V:1:MET:N	10:V:55:LEU:N	2.39	0.71
1:A:1070:ALA:HA	1:A:1370:HIS:ND1	2.06	0.71
2:B:324:ASP:O	2:B:326:ILE:N	2.23	0.71
1:M:226:ASN:HD22	1:M:229:TYR:H	1.36	0.71
2:N:882:THR:HG22	2:N:884:ARG:H	1.53	0.71
4:P:160:ILE:HG22	4:P:163:LEU:HG	1.72	0.71
2:B:166:ARG:HH11	2:B:166:ARG:HG3	1.56	0.70
2:B:354:LEU:HD21	2:B:370:PHE:CD2	2.26	0.70
1:M:858:ARG:HD3	1:M:862:GLY:O	1.91	0.70
1:M:901:ASP:HA	1:M:927:GLN:NE2	2.06	0.70
1:A:901:ASP:HA	1:A:927:GLN:NE2	2.07	0.70
11:K:65:HIS:CD2	11:K:67:LEU:H	2.10	0.70
1:M:570:LYS:O	1:M:572:LEU:HD12	1.92	0.70
1:M:1453:LEU:HD21	7:S:18:PHE:O	1.91	0.70
2:N:166:ARG:HG3	2:N:166:ARG:HH11	1.56	0.70
2:N:575:VAL:HG23	2:N:619:ILE:HD12	1.72	0.70
2:N:890:TYR:HA	2:N:910:ILE:HG21	1.73	0.70
7:S:163:ILE:HG22	7:S:168:LEU:HB3	1.72	0.70
9:U:106:CYS:SG	9:U:107:LYS:N	2.64	0.70
1:A:858:ARG:HD3	1:A:862:GLY:O	1.91	0.70
2:B:387:ASP:CG	9:I:91:ARG:HB3	2.11	0.70
1:M:173:PRO:HB3	1:M:186:TRP:CE2	2.27	0.70
2:N:110:THR:HG21	2:N:451:LYS:HE2	1.73	0.70
1:A:599:LEU:HA	8:H:121:LEU:HD13	1.72	0.70
2:B:404:PRO:O	2:B:407:ALA:HB3	1.91	0.70
2:B:890:TYR:HA	2:B:910:ILE:HG21	1.74	0.70
2:B:957:ASN:ND2	2:B:961:LEU:HD12	2.06	0.70
3:C:181:ASP:CG	3:C:186:LEU:HD13	2.12	0.70
7:G:13:LEU:HD12	7:G:26:LEU:HD21	1.73	0.70
1:M:1393:ASN:OD1	1:M:1405:PHE:HD2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:181:ASP:CG	3:O:186:LEU:HD13	2.12	0.70
7:S:13:LEU:HD12	7:S:26:LEU:HD21	1.74	0.70
1:A:67:CYS:O	1:A:70:CYS:SG	2.50	0.70
1:A:173:PRO:HB3	1:A:186:TRP:CE2	2.27	0.70
1:A:822:ARG:HB2	1:A:822:ARG:NH1	2.06	0.70
2:B:110:THR:HG21	2:B:451:LYS:HE2	1.74	0.70
2:B:575:VAL:HG23	2:B:619:ILE:HD12	1.72	0.70
2:B:1007:VAL:CG2	2:B:1008:PRO:HD2	2.19	0.70
1:A:766:VAL:HG21	1:A:809:LEU:CD1	2.20	0.70
1:A:1096:VAL:HG13	1:A:1115:THR:HG21	1.72	0.70
1:A:1388:THR:CG2	1:A:1390:HIS:H	2.05	0.70
2:B:953:LEU:HD21	2:B:965:LYS:HB2	1.73	0.70
10:J:1:MET:N	10:J:55:LEU:N	2.39	0.70
3:O:34:ARG:HD3	11:W:41:THR:OG1	1.91	0.70
1:A:1217:LYS:O	1:A:1221:VAL:HG23	1.91	0.70
1:M:336:ARG:HH11	2:N:1202:LEU:HD22	1.57	0.70
1:M:822:ARG:HB2	1:M:822:ARG:NH1	2.06	0.70
1:M:1388:THR:CG2	1:M:1390:HIS:H	2.05	0.70
1:M:1397:THR:HG21	1:M:1401:MET:SD	2.31	0.70
2:N:354:LEU:HD21	2:N:370:PHE:CD2	2.26	0.70
2:N:944:THR:HG21	2:N:1122:ARG:NH2	2.07	0.70
11:W:65:HIS:CD2	11:W:67:LEU:H	2.10	0.70
1:A:570:LYS:O	1:A:572:LEU:HD12	1.91	0.70
2:B:14:THR:O	2:B:17:CYS:SG	2.49	0.70
2:B:376:ASN:O	2:B:380:LEU:HD13	1.91	0.70
1:M:1107:LEU:CD2	1:M:1387:ILE:HG21	2.20	0.70
1:M:1244:VAL:C	1:M:1245:ILE:CG1	2.60	0.70
1:A:284:GLY:O	1:A:286:PRO:HD3	1.92	0.70
1:A:1097:THR:HG21	1:A:1114:LYS:HB2	1.72	0.70
2:N:376:ASN:O	2:N:380:LEU:HD13	1.91	0.70
2:N:916:THR:HB	2:N:935:ARG:HG3	1.74	0.70
1:A:417:ARG:HG3	1:A:418:TYR:CE2	2.27	0.70
2:B:1039:GLY:HA2	10:J:50:LEU:HD22	1.73	0.70
1:M:231:ARG:HG3	1:M:234:TRP:CZ3	2.27	0.70
1:M:386:ILE:HG22	1:M:387:HIS:N	2.07	0.70
1:A:55:ASP:C	1:A:57:LYS:N	2.40	0.69
1:A:336:ARG:HH11	2:B:1202:LEU:HD22	1.57	0.69
2:B:77:ILE:HD12	2:B:425:MET:SD	2.32	0.69
2:B:944:THR:HG21	2:B:1122:ARG:NH2	2.07	0.69
3:C:34:ARG:HD3	11:K:41:THR:OG1	1.91	0.69
3:C:35:THR:HG21	3:C:251:LEU:HD22	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1006:ASN:CG	5:Q:166:ARG:HD2	2.12	0.69
1:M:1217:LYS:O	1:M:1221:VAL:HG23	1.91	0.69
3:O:35:THR:HG21	3:O:251:LEU:HD22	1.74	0.69
1:M:67:CYS:O	1:M:70:CYS:SG	2.50	0.69
1:M:1084:ASN:HB3	1:M:1086:PHE:HD1	1.57	0.69
4:P:66:ALA:HA	4:P:69:ARG:HD2	1.73	0.69
5:Q:18:VAL:HG11	5:Q:79:VAL:HG11	1.73	0.69
6:R:89:GLU:O	6:R:93:ILE:HG13	1.92	0.69
7:S:14:HIS:ND1	7:S:15:PRO:HD2	2.08	0.69
1:A:283:ASP:O	1:A:285:SER:N	2.26	0.69
2:B:609:ILE:N	2:B:609:ILE:HD12	2.08	0.69
6:F:89:GLU:O	6:F:93:ILE:HG13	1.92	0.69
1:M:284:GLY:O	1:M:286:PRO:HD3	1.92	0.69
1:M:413:ARG:HH22	2:N:1108:ARG:NH2	1.90	0.69
1:M:817:HIS:CD2	2:N:764:SER:HB2	2.28	0.69
2:N:609:ILE:HD12	2:N:609:ILE:N	2.08	0.69
1:A:943:PHE:HD2	1:A:944:LEU:HD23	1.57	0.69
1:A:1453:LEU:CG	7:G:18:PHE:O	2.41	0.69
1:M:283:ASP:O	1:M:285:SER:N	2.26	0.69
2:N:1159:ARG:HD3	2:N:1193:GLN:HG3	1.75	0.69
6:F:90:ARG:HG2	6:F:91:ALA:N	2.05	0.69
2:N:953:LEU:HD21	2:N:965:LYS:HB2	1.73	0.69
4:P:35:ALA:O	4:P:48:LEU:HD23	1.93	0.69
1:A:1006:ASN:CG	5:E:166:ARG:HD2	2.12	0.69
1:A:1084:ASN:HB3	1:A:1086:PHE:HD1	1.58	0.69
2:B:288:GLU:O	2:B:291:GLN:HB2	1.91	0.69
7:G:14:HIS:ND1	7:G:15:PRO:HD2	2.08	0.69
1:M:55:ASP:N	1:M:56:PRO:HD3	2.07	0.69
1:M:417:ARG:HG3	1:M:418:TYR:CE2	2.27	0.69
1:M:943:PHE:HD2	1:M:944:LEU:HD23	1.57	0.69
2:N:14:THR:O	2:N:17:CYS:SG	2.49	0.69
1:A:413:ARG:HH22	2:B:1108:ARG:NH2	1.90	0.69
4:D:41:HIS:HB2	7:G:73:LYS:CE	2.23	0.69
5:E:21:MET:HE3	5:E:25:ARG:HH21	1.55	0.69
2:N:288:GLU:O	2:N:291:GLN:HB2	1.91	0.69
2:N:1072:MET:CE	2:N:1085:VAL:HB	2.22	0.69
10:V:1:MET:H1	10:V:56:ILE:H	1.41	0.69
1:A:231:ARG:HG3	1:A:234:TRP:CZ3	2.27	0.69
1:A:352:THR:HG22	2:B:1103:ILE:HA	1.75	0.69
1:A:636:ARG:HH11	1:A:636:ARG:HA	1.57	0.69
2:B:992:VAL:HG22	2:B:993:THR:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1069:PHE:HA	2:B:1085:VAL:O	1.93	0.69
2:B:1116:ARG:HG3	2:B:1198:TYR:CZ	2.28	0.69
2:B:1159:ARG:HD3	2:B:1193:GLN:HG3	1.75	0.69
5:E:196:LYS:HE2	5:E:198:ILE:HD11	1.75	0.69
1:M:352:THR:HG22	2:N:1103:ILE:HA	1.75	0.69
1:M:553:TRP:NE1	11:W:62:LYS:HB2	2.03	0.69
1:M:598:LEU:HD12	1:M:598:LEU:N	2.08	0.69
1:M:1441:THR:HB	2:N:1144:ALA:HB3	1.75	0.69
2:N:695:GLU:O	2:N:698:ILE:HG12	1.93	0.69
2:N:992:VAL:HG22	2:N:993:THR:H	1.58	0.69
4:P:95:GLY:O	4:P:96:ALA:HB3	1.92	0.69
5:Q:196:LYS:HE2	5:Q:198:ILE:HD11	1.75	0.69
1:A:368:PRO:HG2	1:A:371:ILE:HG13	1.75	0.69
1:A:598:LEU:HD12	1:A:598:LEU:N	2.08	0.69
2:B:695:GLU:O	2:B:698:ILE:HG12	1.93	0.69
1:M:368:PRO:HG2	1:M:371:ILE:HG13	1.75	0.69
1:M:598:LEU:O	1:M:599:LEU:HB2	1.93	0.69
2:N:1039:GLY:HA2	10:V:50:LEU:CD2	2.22	0.69
2:N:1069:PHE:HA	2:N:1085:VAL:O	1.93	0.69
11:W:87:LEU:O	11:W:91:CYS:HB2	1.93	0.69
1:A:838:ILE:HG12	1:A:841:ARG:NH1	2.08	0.69
2:N:1039:GLY:HA2	10:V:50:LEU:HD22	1.73	0.69
1:A:386:ILE:HG22	1:A:387:HIS:N	2.07	0.68
1:A:838:ILE:HG12	1:A:841:ARG:HH11	1.59	0.68
4:D:35:ALA:O	4:D:48:LEU:HD23	1.93	0.68
1:M:54:ASN:HB3	1:M:248:ARG:HH22	1.58	0.68
1:M:102:VAL:O	1:M:106:ILE:HG22	1.92	0.68
1:M:838:ILE:HG12	1:M:841:ARG:NH1	2.08	0.68
1:A:54:ASN:HB3	1:A:248:ARG:HH22	1.59	0.68
1:A:102:VAL:O	1:A:106:ILE:HG22	1.93	0.68
7:G:1:MET:HE2	7:G:3:PHE:HE1	1.56	0.68
2:N:763:GLN:HG2	2:N:765:PRO:HG2	1.74	0.68
2:N:1107:ALA:O	2:N:1108:ARG:HG2	1.93	0.68
1:A:55:ASP:N	1:A:56:PRO:HD3	2.07	0.68
2:N:77:ILE:HD12	2:N:425:MET:SD	2.32	0.68
2:N:423:ARG:HB3	2:N:427:ARG:NH2	2.08	0.68
4:P:41:HIS:HB2	7:S:73:LYS:CE	2.23	0.68
9:U:105:ASN:O	9:U:106:CYS:HB3	1.92	0.68
1:A:962:LEU:HA	1:A:965:ILE:HG22	1.75	0.68
1:A:1116:PRO:HB2	1:A:1314:ILE:CG2	2.23	0.68
2:B:181:TYR:CE2	10:J:61:ARG:HB3	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:394:PHE:CD1	2:B:511:HIS:CE1	2.82	0.68
2:B:556:MET:HE3	2:B:573:ILE:HG21	0.70	0.68
2:B:912:ILE:O	2:B:938:SER:HB3	1.94	0.68
4:D:95:GLY:O	4:D:96:ALA:HB3	1.92	0.68
1:M:1215:ALA:CB	1:M:1230:TRP:CE3	2.76	0.68
1:M:1423:ASP:HB3	1:M:1425:ARG:HG3	1.76	0.68
2:N:509:ASN:HD22	2:N:509:ASN:H	1.38	0.68
2:B:890:TYR:O	2:B:893:LEU:HB2	1.93	0.68
1:M:63:ARG:HA	1:M:74:MET:CE	2.24	0.68
1:M:406:VAL:HG22	1:M:433:VAL:HG22	1.76	0.68
1:M:1116:PRO:HB2	1:M:1314:ILE:CG2	2.23	0.68
2:N:890:TYR:O	2:N:893:LEU:HB2	1.93	0.68
4:P:166:LYS:O	4:P:167:LYS:HB2	1.93	0.68
1:A:406:VAL:HG22	1:A:433:VAL:HG22	1.76	0.68
1:A:859:ASN:HD22	1:A:861:LEU:H	1.40	0.68
2:B:423:ARG:HB3	2:B:427:ARG:NH2	2.08	0.68
2:B:509:ASN:HD22	2:B:509:ASN:H	1.39	0.68
1:M:384:TYR:CB	6:R:115:THR:HG22	2.11	0.68
1:M:962:LEU:HA	1:M:965:ILE:HG22	1.74	0.68
2:N:184:LYS:HD3	2:N:787:VAL:HG11	1.76	0.68
2:N:392:ASP:OD2	2:N:503:LYS:HG3	1.94	0.68
2:N:551:LEU:C	2:N:553:GLU:H	1.94	0.68
2:N:1115:THR:O	2:N:1116:ARG:HB2	1.93	0.68
12:X:30:LYS:HB2	12:X:41:SER:HA	1.75	0.68
2:B:763:GLN:HG2	2:B:765:PRO:HG2	1.74	0.68
2:B:1166:CYS:CA	4:D:15:ALA:HA	2.24	0.68
1:M:636:ARG:HA	1:M:636:ARG:HH11	1.57	0.68
1:M:838:ILE:HG12	1:M:841:ARG:HH11	1.59	0.68
1:A:470:ARG:NH2	2:B:991:GLY:O	2.27	0.68
1:A:742:ASN:HD22	1:A:743:ASN:N	1.92	0.68
1:A:1423:ASP:HB3	1:A:1425:ARG:HG3	1.76	0.68
3:C:47:LEU:CB	3:C:158:ILE:HG23	2.20	0.68
9:I:105:ASN:O	9:I:106:CYS:HB3	1.92	0.68
2:N:225:ILE:HG21	2:N:228:VAL:HG23	1.76	0.68
1:A:1423:ASP:OD1	1:A:1425:ARG:HD2	1.94	0.68
2:B:184:LYS:HD3	2:B:787:VAL:HG11	1.76	0.68
8:H:88:LEU:HB3	8:H:90:ASP:OD1	1.94	0.68
1:M:859:ASN:HD22	1:M:861:LEU:H	1.40	0.68
1:M:1397:THR:HG22	1:M:1401:MET:SD	2.33	0.68
9:U:56:ALA:HB3	9:U:89:GLN:HG3	1.76	0.68
1:A:527:ASP:HB2	2:B:835:GLN:OE1	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:LEU:O	1:A:599:LEU:HB2	1.93	0.68
1:A:984:THR:O	1:A:987:GLU:HB2	1.94	0.68
2:B:225:ILE:HG21	2:B:228:VAL:HG23	1.76	0.68
5:E:18:VAL:HG11	5:E:79:VAL:HG11	1.73	0.68
8:H:55:LEU:HD22	8:H:143:ILE:CG2	2.24	0.68
11:K:87:LEU:O	11:K:91:CYS:HB2	1.93	0.68
1:M:40:ILE:HB	1:M:41:MET:CE	2.08	0.68
1:M:470:ARG:NH2	2:N:991:GLY:O	2.27	0.68
2:N:912:ILE:O	2:N:938:SER:HB3	1.94	0.68
8:T:88:LEU:HB3	8:T:90:ASP:OD1	1.94	0.68
1:A:63:ARG:HA	1:A:74:MET:CE	2.24	0.67
1:A:441:ASP:O	1:A:461:VAL:HG23	1.94	0.67
1:A:1352:TYR:O	1:A:1355:ILE:HG23	1.94	0.67
2:B:737:THR:CG2	9:I:66:PRO:HA	2.25	0.67
2:B:875:GLU:HG3	2:B:877:PRO:HD3	1.75	0.67
2:B:1039:GLY:HA2	10:J:50:LEU:CD2	2.22	0.67
2:B:1072:MET:CE	2:B:1085:VAL:HB	2.22	0.67
10:J:56:ILE:HA	10:J:59:PHE:HD2	1.59	0.67
1:M:476:THR:HG23	1:M:477:SER:N	2.09	0.67
2:N:737:THR:CG2	9:U:66:PRO:HA	2.24	0.67
2:N:957:ASN:ND2	2:N:961:LEU:HD12	2.06	0.67
3:O:175:ALA:HB1	10:V:42:ARG:HH12	1.59	0.67
2:B:20:VAL:O	2:B:23:ALA:HB3	1.95	0.67
2:B:202:VAL:HG21	2:B:476:LEU:HD13	1.75	0.67
2:B:797:TYR:HB3	2:B:798:TYR:CD2	2.29	0.67
2:B:1107:ALA:O	2:B:1108:ARG:HG2	1.94	0.67
4:D:48:LEU:CD1	4:D:49:ILE:H	2.06	0.67
12:L:32:THR:O	12:L:58:ILE:HA	1.94	0.67
1:M:29:ALA:HB1	2:N:1184:SER:CB	2.24	0.67
1:M:415:ASP:OD1	1:M:417:ARG:HG2	1.93	0.67
1:M:742:ASN:HD22	1:M:743:ASN:N	1.92	0.67
1:M:1352:TYR:O	1:M:1355:ILE:HG23	1.94	0.67
2:N:181:TYR:CE2	10:V:61:ARG:HB3	2.28	0.67
4:P:48:LEU:CD1	4:P:49:ILE:H	2.06	0.67
5:Q:21:MET:HE3	5:Q:25:ARG:HH21	1.57	0.67
12:X:32:THR:O	12:X:58:ILE:HA	1.95	0.67
2:B:992:VAL:HG22	2:B:993:THR:N	2.09	0.67
12:L:30:LYS:HB2	12:L:41:SER:HA	1.75	0.67
1:A:415:ASP:OD1	1:A:417:ARG:HG2	1.93	0.67
1:A:476:THR:HG23	1:A:477:SER:N	2.09	0.67
1:A:801:VAL:HA	1:A:813:GLU:CD	2.15	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:166:GLU:HG3	11:K:10:PHE:HZ	1.60	0.67
4:D:166:LYS:O	4:D:167:LYS:HB2	1.93	0.67
1:M:527:ASP:HB2	2:N:835:GLN:OE1	1.94	0.67
1:M:1197:LEU:HD11	1:M:1270:MET:CE	2.25	0.67
1:M:1352:TYR:O	1:M:1355:ILE:CG2	2.42	0.67
1:M:1423:ASP:OD1	1:M:1425:ARG:HD2	1.94	0.67
10:V:2:ILE:CG2	10:V:3:ILE:N	2.57	0.67
1:A:1197:LEU:HD11	1:A:1270:MET:CE	2.25	0.67
1:A:1215:ALA:CB	1:A:1230:TRP:CE3	2.77	0.67
2:B:575:VAL:HA	2:B:619:ILE:HB	1.76	0.67
10:J:2:ILE:CG2	10:J:3:ILE:N	2.57	0.67
2:N:20:VAL:O	2:N:23:ALA:HB3	1.95	0.67
2:N:202:VAL:HG21	2:N:476:LEU:HD13	1.75	0.67
8:T:55:LEU:HD22	8:T:143:ILE:CG2	2.24	0.67
9:I:56:ALA:HB3	9:I:89:GLN:HG3	1.76	0.67
10:J:42:ARG:H	10:J:42:ARG:CD	2.07	0.67
1:M:441:ASP:O	1:M:461:VAL:HG23	1.94	0.67
1:M:984:THR:O	1:M:987:GLU:HB2	1.93	0.67
1:A:29:ALA:HB1	2:B:1184:SER:CB	2.24	0.67
2:B:1115:THR:O	2:B:1116:ARG:HB2	1.93	0.67
3:C:175:ALA:HB1	10:J:42:ARG:HH12	1.59	0.67
12:L:42:LEU:HD22	12:L:46:ASP:HB3	1.77	0.67
1:M:384:TYR:HB3	6:R:115:THR:CB	2.24	0.67
1:M:400:HIS:O	1:M:402:GLY:N	2.27	0.67
3:O:47:LEU:CB	3:O:158:ILE:HG23	2.20	0.67
3:O:166:GLU:HG3	11:W:10:PHE:HZ	1.59	0.67
1:A:822:ARG:NE	2:B:505:ARG:O	2.25	0.67
2:N:797:TYR:HB3	2:N:798:TYR:CD2	2.28	0.67
1:A:1326:ASP:O	1:A:1328:SER:N	2.24	0.67
1:A:1352:TYR:O	1:A:1355:ILE:CG2	2.42	0.67
2:B:798:TYR:HD1	10:J:4:PRO:HG3	1.60	0.67
4:D:139:PRO:HA	4:D:142:ILE:CG2	2.25	0.67
6:F:118:LEU:O	6:F:122:MET:HG3	1.95	0.67
2:N:509:ASN:N	2:N:509:ASN:ND2	2.43	0.67
2:N:875:GLU:HG3	2:N:877:PRO:HD3	1.75	0.67
2:N:1176:LYS:C	2:N:1178:ASN:H	1.98	0.67
1:A:769:GLN:CD	1:A:817:HIS:HA	2.14	0.67
1:A:787:HIS:CD2	2:B:700:ILE:HB	2.30	0.67
10:J:2:ILE:HG23	10:J:3:ILE:N	2.10	0.67
4:P:57:ARG:HB2	4:P:109:LEU:HD22	1.77	0.67
10:V:2:ILE:HG23	10:V:3:ILE:N	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:504:GLN:NE2	6:F:90:ARG:HH21	1.92	0.66
1:A:1450:GLU:HG3	7:G:22:MET:SD	2.35	0.66
1:M:1410:GLU:CD	1:M:1410:GLU:H	1.98	0.66
1:A:41:MET:CB	1:A:49:ARG:HA	2.22	0.66
1:A:558:ASP:OD2	1:A:560:VAL:HB	1.95	0.66
1:A:801:VAL:CG2	1:A:809:LEU:HG	2.25	0.66
1:A:856:THR:HG21	1:A:858:ARG:NE	2.10	0.66
4:D:48:LEU:HD13	4:D:49:ILE:H	1.61	0.66
1:M:1215:ALA:HB1	1:M:1230:TRP:CE3	2.31	0.66
2:N:477:ASN:O	2:N:478:ARG:HD2	1.95	0.66
2:N:992:VAL:HG22	2:N:993:THR:N	2.09	0.66
2:N:1142:GLY:HA3	6:R:88:TYR:HE2	1.60	0.66
6:R:118:LEU:O	6:R:122:MET:HG3	1.95	0.66
10:V:42:ARG:H	10:V:42:ARG:CD	2.07	0.66
2:B:477:ASN:O	2:B:478:ARG:HD2	1.95	0.66
2:B:572:ARG:HB2	2:B:579:TRP:HE1	1.59	0.66
2:B:630:LEU:HD22	2:B:741:CYS:O	1.95	0.66
2:B:737:THR:HG21	9:I:66:PRO:HA	1.77	0.66
1:M:1154:ILE:HG23	1:M:1195:LEU:HD13	1.78	0.66
2:N:737:THR:HG21	9:U:66:PRO:HA	1.77	0.66
2:N:798:TYR:HD1	10:V:4:PRO:HG3	1.60	0.66
10:V:51:THR:HG22	10:V:51:THR:O	1.93	0.66
10:V:56:ILE:HA	10:V:59:PHE:HD2	1.59	0.66
1:A:553:TRP:NE1	11:K:62:LYS:HB2	2.03	0.66
1:A:1200:ASP:O	1:A:1204:MET:HG2	1.96	0.66
1:A:1215:ALA:HB1	1:A:1230:TRP:CE3	2.31	0.66
1:M:558:ASP:OD2	1:M:560:VAL:HB	1.96	0.66
1:M:1376:ASP:HA	1:M:1379:THR:HG22	1.77	0.66
2:N:95:THR:OG1	2:N:96:THR:N	2.26	0.66
2:N:630:LEU:HD22	2:N:741:CYS:O	1.95	0.66
5:Q:77:LEU:HD21	5:Q:79:VAL:HG23	1.78	0.66
1:A:1154:ILE:HG23	1:A:1195:LEU:HD13	1.77	0.66
1:A:1163:THR:HG22	1:A:1164:VAL:N	2.10	0.66
1:M:446:ASN:HB2	1:M:456:MET:HG2	1.77	0.66
1:M:787:HIS:CD2	2:N:700:ILE:HB	2.30	0.66
1:M:1200:ASP:O	1:M:1204:MET:HG2	1.96	0.66
4:P:90:ALA:O	4:P:92:VAL:N	2.27	0.66
12:X:42:LEU:HD22	12:X:46:ASP:HB3	1.77	0.66
1:A:400:HIS:O	1:A:402:GLY:N	2.27	0.66
1:A:822:ARG:O	1:A:826:ILE:HG13	1.95	0.66
1:A:903:MET:CG	1:A:927:GLN:HG3	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:179:ASN:HA	4:D:182:GLU:HB2	1.77	0.66
7:G:153:ASP:CG	7:G:154:VAL:H	1.98	0.66
10:J:51:THR:HG22	10:J:51:THR:O	1.93	0.66
1:M:1136:ILE:O	1:M:1140:ILE:HG13	1.96	0.66
2:N:575:VAL:HA	2:N:619:ILE:HB	1.77	0.66
4:P:139:PRO:HA	4:P:142:ILE:CG2	2.25	0.66
1:A:801:VAL:CG1	1:A:809:LEU:HD12	2.26	0.66
1:A:983:LEU:CD2	1:A:1041:ARG:HA	2.26	0.66
1:A:1136:ILE:O	1:A:1140:ILE:HG13	1.95	0.66
5:E:77:LEU:HD21	5:E:79:VAL:HG23	1.78	0.66
1:M:326:ILE:HG21	2:N:1210:MET:HG3	1.77	0.66
2:N:572:ARG:HB2	2:N:579:TRP:HE1	1.59	0.66
2:N:830:TYR:CE2	2:N:1000:PRO:HD3	2.31	0.66
2:N:983:ARG:HD2	2:N:1091:TYR:HD2	1.60	0.66
1:A:568:LYS:CB	1:A:569:PRO:CD	2.74	0.66
2:B:225:ILE:HG21	2:B:228:VAL:CG2	2.26	0.66
2:B:286:ASP:O	2:B:288:GLU:N	2.29	0.66
1:M:1163:THR:HG22	1:M:1164:VAL:N	2.10	0.66
4:P:179:ASN:HA	4:P:182:GLU:HB2	1.77	0.66
1:A:357:ASP:OD2	11:K:65:HIS:HE1	1.78	0.66
1:A:1410:GLU:H	1:A:1410:GLU:CD	1.98	0.66
1:M:776:ILE:HG13	1:M:816:PHE:HB3	1.78	0.66
2:N:596:LEU:HD12	2:N:602:ILE:HG23	1.78	0.66
4:P:150:CYS:HB3	4:P:175:LEU:HD22	1.78	0.66
1:A:42:ASP:HA	1:A:46:GLN:O	1.96	0.66
1:A:181:LYS:NZ	1:A:295:GLN:HB3	2.10	0.66
1:A:326:ILE:HG21	2:B:1210:MET:HG3	1.76	0.66
1:A:1322:VAL:O	1:A:1325:VAL:HG22	1.96	0.66
2:B:160:LYS:HB2	2:B:447:THR:HG23	1.78	0.66
4:D:41:HIS:HB2	7:G:73:LYS:HE3	1.78	0.66
1:M:856:THR:HG21	1:M:858:ARG:NE	2.10	0.66
2:N:270:GLN:HG2	2:N:271:ASP:N	2.10	0.66
2:B:596:LEU:HD12	2:B:602:ILE:HG23	1.78	0.65
2:B:1114:LEU:O	2:B:1202:LEU:CD1	2.43	0.65
4:D:54:SER:H	4:D:109:LEU:CD2	2.09	0.65
1:M:1441:THR:CB	2:N:1144:ALA:HB3	2.26	0.65
2:N:225:ILE:HG21	2:N:228:VAL:CG2	2.26	0.65
1:A:467:SER:HB2	2:B:1099:VAL:HG11	1.78	0.65
1:A:673:ASP:HB2	1:A:737:ASN:OD1	1.95	0.65
1:A:794:SER:HB2	1:A:795:PRO:HD2	1.79	0.65
2:B:983:ARG:HH11	2:B:1091:TYR:CB	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:90:ALA:O	4:D:92:VAL:N	2.27	0.65
5:E:156:SER:C	5:E:158:GLY:H	1.99	0.65
8:H:80:PRO:CB	8:H:81:PRO:HD2	2.26	0.65
1:M:42:ASP:HA	1:M:46:GLN:O	1.96	0.65
1:M:181:LYS:NZ	1:M:295:GLN:HB3	2.10	0.65
1:M:822:ARG:O	1:M:826:ILE:HG13	1.95	0.65
1:M:1326:ASP:O	1:M:1328:SER:N	2.25	0.65
2:N:983:ARG:HH11	2:N:1091:TYR:CB	2.10	0.65
4:P:54:SER:H	4:P:109:LEU:CD2	2.09	0.65
8:T:80:PRO:CB	8:T:81:PRO:HD2	2.26	0.65
1:A:1132:LYS:O	1:A:1136:ILE:HG13	1.96	0.65
2:B:83:TYR:HB2	2:B:116:TYR:HB2	1.79	0.65
2:B:981:ALA:HB3	2:B:1095:LEU:HD11	1.77	0.65
4:D:150:CYS:HB3	4:D:175:LEU:HD22	1.78	0.65
8:H:101:TYR:OH	8:H:121:LEU:HD22	1.95	0.65
10:J:9:SER:CB	10:J:44:CYS:HB2	2.26	0.65
1:M:357:ASP:OD2	11:W:65:HIS:HE1	1.78	0.65
1:M:673:ASP:HB2	1:M:737:ASN:OD1	1.95	0.65
1:M:776:ILE:HG13	1:M:816:PHE:CG	2.31	0.65
4:P:41:HIS:HB2	7:S:73:LYS:HE3	1.78	0.65
1:A:795:PRO:HG2	1:A:796:GLU:OE2	1.97	0.65
1:A:870:GLY:O	5:E:203:THR:HG21	1.97	0.65
2:B:555:GLY:HA3	2:B:583:HIS:CE1	2.31	0.65
2:B:830:TYR:CE2	2:B:1000:PRO:HD3	2.31	0.65
2:B:873:GLU:O	2:B:914:LYS:HA	1.96	0.65
4:D:57:ARG:HB2	4:D:109:LEU:HD22	1.77	0.65
1:M:114:LEU:HD13	1:M:172:GLN:HE22	1.60	0.65
1:M:1168:ASP:OD2	1:M:1241:ARG:HD2	1.96	0.65
2:N:884:ARG:HB2	2:N:935:ARG:HA	1.78	0.65
5:Q:156:SER:C	5:Q:158:GLY:H	1.98	0.65
10:V:9:SER:CB	10:V:44:CYS:HB2	2.26	0.65
10:V:35:LEU:CB	10:V:46:ARG:HH12	2.10	0.65
1:A:115:LEU:HD12	1:A:142:CYS:SG	2.37	0.65
1:A:1107:LEU:HB3	1:A:1387:ILE:CG2	2.26	0.65
2:B:681:LEU:O	2:B:687:ILE:HG22	1.96	0.65
8:H:15:VAL:HG22	8:H:26:ILE:HD13	1.78	0.65
10:J:35:LEU:CB	10:J:46:ARG:HH12	2.10	0.65
1:M:795:PRO:HG2	1:M:796:GLU:OE2	1.97	0.65
1:M:1118:LEU:HB2	1:M:1332:SER:OG	1.96	0.65
1:M:1132:LYS:O	1:M:1136:ILE:HG13	1.96	0.65
1:A:1168:ASP:OD2	1:A:1241:ARG:HD2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:850:LEU:HD12	2:B:851:PHE:N	2.11	0.65
2:B:860:MET:HB2	2:B:965:LYS:HG2	1.78	0.65
2:B:1116:ARG:HG3	2:B:1198:TYR:CG	2.32	0.65
1:M:24:PRO:O	1:M:27:ILE:CG2	2.45	0.65
1:M:1322:VAL:O	1:M:1325:VAL:HG22	1.96	0.65
2:N:83:TYR:HB2	2:N:116:TYR:HB2	1.79	0.65
7:S:153:ASP:CG	7:S:154:VAL:H	1.98	0.65
1:A:1197:LEU:HD11	1:A:1270:MET:HE1	1.77	0.65
1:A:1328:SER:O	5:E:147:GLU:HB2	1.96	0.65
2:B:95:THR:OG1	2:B:96:THR:N	2.28	0.65
2:B:1072:MET:HE3	2:B:1085:VAL:CB	2.24	0.65
5:E:90:LYS:C	5:E:92:MET:H	1.99	0.65
1:M:568:LYS:CB	1:M:569:PRO:CD	2.74	0.65
1:M:794:SER:HB2	1:M:795:PRO:HD2	1.79	0.65
1:M:903:MET:CG	1:M:927:GLN:HG3	2.26	0.65
1:M:1027:ARG:O	1:M:1028:LEU:HD23	1.97	0.65
6:R:109:VAL:CG1	6:R:110:ASP:H	1.99	0.65
8:T:94:TYR:HE2	8:T:96:MET:HG3	1.61	0.65
8:T:101:TYR:OH	8:T:121:LEU:HD22	1.96	0.65
1:A:320:GLY:HA2	2:B:464:LYS:HG2	1.78	0.65
1:A:864:ILE:HG22	5:E:173:GLN:O	1.97	0.65
1:A:1118:LEU:HB2	1:A:1332:SER:OG	1.96	0.65
2:B:47:GLN:OE1	2:B:82:ILE:HG22	1.96	0.65
1:M:467:SER:HB2	2:N:1099:VAL:HG11	1.78	0.65
2:N:47:GLN:OE1	2:N:82:ILE:HG22	1.96	0.65
2:N:286:ASP:O	2:N:288:GLU:N	2.29	0.65
2:N:824:ILE:HG22	2:N:1087:PHE:HE2	1.62	0.65
2:N:981:ALA:HB3	2:N:1095:LEU:HD11	1.78	0.65
1:A:446:ASN:HB2	1:A:456:MET:HG2	1.77	0.65
2:B:983:ARG:HD2	2:B:1091:TYR:HD2	1.61	0.65
1:M:115:LEU:HD12	1:M:142:CYS:SG	2.37	0.65
1:M:1328:SER:O	5:Q:147:GLU:HB2	1.96	0.65
1:M:1412:LEU:HD13	2:N:1207:LEU:HD11	1.78	0.65
2:N:850:LEU:HD12	2:N:851:PHE:N	2.11	0.65
2:N:873:GLU:O	2:N:914:LYS:HA	1.96	0.65
1:A:1239:ILE:HG22	1:A:1240:ILE:N	2.12	0.65
2:B:1166:CYS:CB	4:D:15:ALA:HA	2.26	0.65
2:B:1176:LYS:C	2:B:1178:ASN:H	1.98	0.65
3:C:62:ILE:HA	3:C:65:ARG:HG3	1.78	0.65
5:E:120:ASN:O	5:E:123:ILE:CG2	2.38	0.65
6:R:124:GLU:HB3	6:R:130:ILE:HG12	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:ARG:HH12	8:H:121:LEU:HG	1.61	0.64
1:A:1154:ILE:CG1	9:I:44:TYR:HB3	2.27	0.64
12:L:63:THR:CG2	12:L:65:ARG:HG3	2.27	0.64
1:M:870:GLY:O	5:Q:203:THR:HG21	1.97	0.64
2:N:681:LEU:O	2:N:687:ILE:HG22	1.96	0.64
1:A:1004:GLY:HA3	1:A:1009:ILE:HG21	1.80	0.64
1:A:1027:ARG:O	1:A:1028:LEU:HD23	1.97	0.64
1:A:1412:LEU:HD13	2:B:1207:LEU:HD11	1.78	0.64
1:M:1004:GLY:HA3	1:M:1009:ILE:HG21	1.80	0.64
1:M:1107:LEU:HB3	1:M:1387:ILE:CG2	2.26	0.64
3:O:62:ILE:HA	3:O:65:ARG:HG3	1.78	0.64
6:R:103:MET:HE1	7:S:66:GLY:N	2.11	0.64
10:V:9:SER:HB2	10:V:44:CYS:HB2	1.80	0.64
1:A:114:LEU:HD13	1:A:172:GLN:HE22	1.60	0.64
1:M:801:VAL:HG13	1:M:813:GLU:OE1	1.97	0.64
1:M:1239:ILE:HG22	1:M:1240:ILE:N	2.12	0.64
1:M:1389:ARG:HB2	1:M:1406:GLU:OE1	1.98	0.64
2:N:1151:LEU:HD13	2:N:1151:LEU:N	2.12	0.64
7:S:34:VAL:HG12	7:S:45:ILE:CG2	2.25	0.64
8:H:100:VAL:HA	8:H:115:VAL:HA	1.78	0.64
1:M:316:LEU:CD1	2:N:464:LYS:HB3	2.27	0.64
4:P:48:LEU:HD13	4:P:49:ILE:H	1.61	0.64
1:A:1376:ASP:HA	1:A:1379:THR:HG22	1.77	0.64
2:B:1151:LEU:HD13	2:B:1151:LEU:N	2.13	0.64
2:B:1165:ILE:CA	4:D:13:ARG:O	2.44	0.64
1:M:333:LYS:N	1:M:338:ARG:HB3	2.06	0.64
1:M:538:ARG:HH12	8:T:121:LEU:HG	1.61	0.64
2:N:22:SER:HA	2:N:811:TYR:HE2	1.63	0.64
2:N:1095:LEU:H	2:N:1095:LEU:CD1	2.08	0.64
1:A:95:PHE:HE2	1:A:1413:PHE:HB3	1.63	0.64
2:B:190:MET:HE2	2:B:485:LEU:HD23	1.80	0.64
3:C:38:ALA:O	3:C:164:ALA:HB3	1.98	0.64
4:D:114:ARG:HB3	4:D:115:PHE:CE1	2.32	0.64
1:M:871:GLU:HG2	5:Q:207:TYR:CG	2.32	0.64
1:M:1154:ILE:CG1	9:U:44:TYR:HB3	2.27	0.64
2:N:160:LYS:HB2	2:N:447:THR:HG23	1.78	0.64
3:O:253:GLU:O	3:O:256:ALA:HB3	1.97	0.64
12:X:63:THR:CG2	12:X:65:ARG:HG3	2.27	0.64
1:A:676:THR:OG1	1:A:737:ASN:ND2	2.30	0.64
1:A:871:GLU:HG2	5:E:207:TYR:CG	2.32	0.64
2:B:1157:ALA:O	2:B:1158:PHE:HB2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:9:SER:HB2	10:J:44:CYS:HB2	1.80	0.64
1:M:95:PHE:HE2	1:M:1413:PHE:HB3	1.63	0.64
1:M:983:LEU:CD2	1:M:1041:ARG:HA	2.26	0.64
1:M:1197:LEU:HD11	1:M:1270:MET:HE1	1.79	0.64
2:N:235:LEU:HD11	2:N:359:GLN:NE2	2.13	0.64
2:N:555:GLY:HA3	2:N:583:HIS:CE1	2.31	0.64
2:N:825:VAL:HG21	2:N:1090:THR:HB	1.80	0.64
2:N:1157:ALA:O	2:N:1158:PHE:HB2	1.97	0.64
3:O:167:HIS:HD2	3:O:168:ALA:H	1.46	0.64
1:A:535:MET:HA	1:A:540:THR:HG21	1.79	0.64
1:A:546:GLN:HG2	1:A:550:MET:HE2	1.80	0.64
2:B:847:ASP:C	2:B:849:GLY:H	2.00	0.64
4:D:25:ALA:C	4:D:27:LEU:H	2.02	0.64
6:R:110:ASP:O	6:R:112:GLU:N	2.31	0.64
8:T:15:VAL:HG22	8:T:26:ILE:HD13	1.78	0.64
2:B:824:ILE:HG22	2:B:1087:PHE:HE2	1.62	0.64
2:B:1095:LEU:H	2:B:1095:LEU:CD1	2.08	0.64
3:C:42:THR:HB	3:C:170:TRP:HD1	1.63	0.64
1:A:920:ILE:HG21	1:A:985:ILE:HD11	1.80	0.64
6:F:110:ASP:O	6:F:112:GLU:N	2.31	0.64
7:G:34:VAL:HG12	7:G:45:ILE:CG2	2.25	0.64
2:N:756:ILE:O	2:N:759:PRO:HD3	1.98	0.64
3:O:42:THR:HB	3:O:170:TRP:HD1	1.63	0.64
5:Q:15:PHE:CZ	5:Q:19:LYS:HE2	2.33	0.64
1:A:1397:THR:CG2	1:A:1401:MET:SD	2.86	0.63
2:B:756:ILE:O	2:B:759:PRO:HD3	1.99	0.63
3:C:201:TRP:HE3	3:C:202:PRO:HD2	1.63	0.63
2:N:12:ILE:HG23	2:N:652:ILE:HD11	1.80	0.63
2:N:290:LEU:H	2:N:290:LEU:CD2	2.11	0.63
2:N:782:LEU:HD12	2:N:788:ARG:HH11	1.62	0.63
2:N:1095:LEU:HD12	2:N:1095:LEU:N	2.12	0.63
3:O:184:ASN:HD21	3:O:189:THR:HB	1.63	0.63
1:A:24:PRO:O	1:A:27:ILE:CG2	2.46	0.63
1:A:225:PHE:CG	1:A:232:PRO:HG3	2.33	0.63
1:A:270:ILE:HD11	1:A:301:VAL:HA	1.81	0.63
2:B:22:SER:HA	2:B:811:TYR:HE2	1.63	0.63
2:B:290:LEU:CD2	2:B:290:LEU:H	2.10	0.63
2:B:551:LEU:O	2:B:553:GLU:N	2.30	0.63
3:C:15:ASP:O	3:C:16:GLU:CG	2.46	0.63
2:N:1183:ARG:O	2:N:1184:SER:CB	2.47	0.63
5:Q:90:LYS:C	5:Q:92:MET:H	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:846:ILE:CG2	2:B:974:PRO:HG2	2.29	0.63
3:C:115:SER:OG	3:C:142:ILE:CG1	2.46	0.63
3:C:167:HIS:HD2	3:C:168:ALA:H	1.46	0.63
3:C:253:GLU:O	3:C:256:ALA:HB3	1.97	0.63
4:D:68:SER:HB2	4:D:93:THR:HG21	1.80	0.63
7:G:1:MET:CE	7:G:3:PHE:HE1	2.11	0.63
11:K:7:PHE:HA	11:K:10:PHE:CE2	2.34	0.63
1:M:676:THR:OG1	1:M:737:ASN:ND2	2.30	0.63
3:O:38:ALA:O	3:O:164:ALA:HB3	1.98	0.63
1:A:1367:ASN:HD22	1:A:1368:TYR:H	1.47	0.63
1:M:256:THR:CB	2:N:918:ILE:CG2	2.75	0.63
2:N:266:PRO:HG2	2:N:352:GLU:HB3	1.79	0.63
2:N:860:MET:HB2	2:N:965:LYS:HG2	1.78	0.63
2:N:1072:MET:HE3	2:N:1085:VAL:CB	2.26	0.63
3:O:35:THR:HG21	3:O:251:LEU:CD2	2.28	0.63
7:S:51:GLY:O	7:S:54:ILE:HG13	1.99	0.63
8:T:142:LEU:O	8:T:143:ILE:HG13	1.98	0.63
9:U:14:LEU:HD13	9:U:28:SER:O	1.99	0.63
11:W:7:PHE:HA	11:W:10:PHE:CE2	2.34	0.63
1:A:845:ALA:O	1:A:846:LEU:HD23	1.98	0.63
2:B:270:GLN:HG2	2:B:271:ASP:N	2.10	0.63
2:B:290:LEU:HD22	2:B:290:LEU:H	1.61	0.63
2:B:1096:ARG:O	2:B:1097:HIS:HB2	1.99	0.63
5:E:15:PHE:CZ	5:E:19:LYS:HE2	2.33	0.63
1:M:225:PHE:CG	1:M:232:PRO:HG3	2.33	0.63
1:M:270:ILE:HD11	1:M:301:VAL:HA	1.81	0.63
1:M:417:ARG:O	1:M:418:TYR:HD2	1.82	0.63
1:M:630:LEU:O	1:M:633:THR:CG2	2.47	0.63
3:O:201:TRP:HE3	3:O:202:PRO:HD2	1.63	0.63
6:R:103:MET:HE2	7:S:65:SER:HA	1.79	0.63
8:T:100:VAL:HA	8:T:115:VAL:HA	1.78	0.63
12:X:63:THR:HG21	12:X:65:ARG:HG3	1.80	0.63
1:A:752:SER:O	1:A:753:LYS:HG2	1.99	0.63
1:A:846:LEU:HD12	1:A:1071:ALA:HB2	1.80	0.63
2:B:92:ALA:O	2:B:93:ASP:HB2	1.98	0.63
2:B:1114:LEU:HD11	2:B:1202:LEU:CD1	2.23	0.63
3:C:184:ASN:HD21	3:C:189:THR:HB	1.63	0.63
9:I:62:ILE:O	9:I:62:ILE:HG12	1.98	0.63
1:M:1044:PHE:CE2	1:M:1048:LEU:HD11	2.33	0.63
2:N:1159:ARG:CD	2:N:1193:GLN:HE21	2.12	0.63
3:O:15:ASP:O	3:O:16:GLU:CG	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:321:ARG:HH22	1:A:324:LYS:HE3	1.64	0.63
1:A:591:ARG:HB3	1:A:606:MET:H	1.64	0.63
1:A:1044:PHE:CE2	1:A:1048:LEU:HD11	2.33	0.63
1:A:1342:LEU:HD13	5:E:146:HIS:CD2	2.34	0.63
2:B:825:VAL:HG21	2:B:1090:THR:HB	1.80	0.63
2:B:1094:ARG:NH2	2:B:1098:MET:HG2	2.13	0.63
6:F:99:LEU:HD11	7:G:65:SER:O	1.98	0.63
7:G:51:GLY:O	7:G:54:ILE:HG13	1.99	0.63
8:H:94:TYR:HE2	8:H:96:MET:HG3	1.62	0.63
1:M:920:ILE:HG21	1:M:985:ILE:HD11	1.80	0.63
2:N:1096:ARG:O	2:N:1097:HIS:HB2	1.99	0.63
1:A:417:ARG:O	1:A:418:TYR:HD2	1.82	0.63
1:A:788:PHE:CE1	1:A:797:SER:HA	2.33	0.63
2:B:266:PRO:HG2	2:B:352:GLU:HB3	1.79	0.63
2:B:698:ILE:HD11	2:B:700:ILE:HD11	1.81	0.63
2:B:953:LEU:HD23	2:B:953:LEU:O	1.99	0.63
2:B:1095:LEU:HD12	2:B:1095:LEU:N	2.12	0.63
2:B:1116:ARG:HG3	2:B:1198:TYR:CD1	2.34	0.63
6:F:101:ILE:HD13	6:F:120:ILE:HG22	1.81	0.63
1:M:473:LEU:O	1:M:476:THR:HB	1.99	0.63
2:N:551:LEU:O	2:N:553:GLU:N	2.30	0.63
7:S:1:MET:CE	7:S:3:PHE:HE1	2.12	0.63
1:A:473:LEU:O	1:A:476:THR:HB	1.99	0.63
2:B:12:ILE:HG23	2:B:652:ILE:HD11	1.79	0.63
6:F:124:GLU:HB3	6:F:130:ILE:HG12	1.79	0.63
1:M:535:MET:HA	1:M:540:THR:HG21	1.79	0.63
1:M:819:MET:HG2	2:N:507:LEU:O	1.99	0.63
2:N:846:ILE:CG2	2:N:974:PRO:HG2	2.29	0.63
2:N:1114:LEU:HD12	2:N:1202:LEU:HD11	1.80	0.63
2:N:1169:MET:CE	2:N:1204:PHE:HB2	2.29	0.63
4:P:25:ALA:C	4:P:27:LEU:H	2.01	0.63
1:A:739:LYS:HD2	1:A:739:LYS:N	2.13	0.62
1:A:846:LEU:HB3	1:A:849:ILE:HD12	1.81	0.62
1:A:1441:THR:CG2	2:B:1144:ALA:CB	2.71	0.62
2:B:1169:MET:CE	2:B:1204:PHE:HB2	2.29	0.62
3:C:35:THR:HG21	3:C:251:LEU:CD2	2.28	0.62
3:C:175:ALA:HB2	10:J:42:ARG:HH22	1.63	0.62
3:C:219:PHE:CD2	8:H:45:GLU:HG2	2.34	0.62
9:I:69:PRO:HB2	9:I:85:PHE:CZ	2.34	0.62
1:M:739:LYS:HD2	1:M:739:LYS:N	2.13	0.62
1:M:845:ALA:O	1:M:846:LEU:HD23	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:698:ILE:HD11	2:N:700:ILE:HD11	1.81	0.62
4:P:114:ARG:HB3	4:P:115:PHE:CE1	2.32	0.62
2:B:344:TYR:CZ	2:B:348:ILE:HD11	2.34	0.62
4:D:51:LEU:CD1	4:D:56:SER:HA	2.29	0.62
9:I:14:LEU:HD13	9:I:28:SER:O	1.99	0.62
1:M:591:ARG:HB3	1:M:606:MET:H	1.64	0.62
4:P:56:SER:CB	4:P:109:LEU:HD11	2.29	0.62
7:S:160:ILE:HG22	7:S:161:GLY:N	2.14	0.62
2:B:766:ARG:NH2	2:B:1020:ARG:HD3	2.14	0.62
2:B:799:PRO:HB3	2:B:818:PRO:HG2	1.82	0.62
2:B:1220:ARG:HB3	2:B:1220:ARG:CZ	2.29	0.62
1:M:352:THR:HG21	2:N:1103:ILE:HD12	1.81	0.62
1:M:739:LYS:HB2	1:M:741:LEU:CD2	2.24	0.62
1:M:788:PHE:CE1	1:M:797:SER:HA	2.34	0.62
1:M:801:VAL:HA	1:M:813:GLU:OE1	1.99	0.62
1:M:1342:LEU:HD13	5:Q:146:HIS:CD2	2.34	0.62
1:M:1367:ASN:HD22	1:M:1368:TYR:H	1.47	0.62
2:N:92:ALA:O	2:N:93:ASP:HB2	1.98	0.62
10:V:7:CYS:SG	10:V:48:MET:HE3	2.39	0.62
1:A:402:GLY:C	1:A:436:HIS:HD2	2.02	0.62
2:B:235:LEU:HD11	2:B:359:GLN:NE2	2.13	0.62
1:M:270:ILE:HD13	1:M:301:VAL:HG22	1.81	0.62
1:M:752:SER:O	1:M:753:LYS:HG2	1.99	0.62
1:M:890:SER:HB3	1:M:1300:GLU:CG	2.28	0.62
2:N:766:ARG:NH2	2:N:1020:ARG:HD3	2.14	0.62
9:U:19:ASP:OD1	9:U:22:ASN:HB2	2.00	0.62
9:U:69:PRO:HB2	9:U:85:PHE:CZ	2.34	0.62
1:A:107:CYS:SG	1:A:148:CYS:HB2	2.40	0.62
3:C:45:ILE:HG23	3:C:157:CYS:HB3	1.80	0.62
6:F:109:VAL:CG1	6:F:110:ASP:H	1.99	0.62
7:G:89:ALA:HB2	7:G:103:VAL:CG2	2.28	0.62
8:H:142:LEU:O	8:H:143:ILE:HG13	1.98	0.62
12:L:63:THR:HG21	12:L:65:ARG:HG3	1.79	0.62
2:N:953:LEU:O	2:N:953:LEU:HD23	1.99	0.62
3:O:175:ALA:HB2	10:V:42:ARG:HH22	1.63	0.62
7:S:89:ALA:HB2	7:S:103:VAL:CG2	2.28	0.62
1:A:890:SER:HB3	1:A:1300:GLU:HG3	1.81	0.62
1:A:962:LEU:HA	1:A:965:ILE:CG2	2.30	0.62
2:B:112:SER:HB2	2:B:161:VAL:C	2.19	0.62
2:B:834:ASN:HA	2:B:838:SER:O	2.00	0.62
3:C:65:ARG:NH2	10:J:3:ILE:O	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:402:GLY:C	1:M:436:HIS:HD2	2.02	0.62
2:N:37:SER:OG	2:N:404:PRO:HD3	2.00	0.62
2:N:112:SER:HB2	2:N:161:VAL:C	2.19	0.62
2:N:270:GLN:CG	2:N:271:ASP:H	2.12	0.62
2:N:344:TYR:CZ	2:N:348:ILE:HD11	2.34	0.62
2:N:799:PRO:HB3	2:N:818:PRO:HG2	1.82	0.62
4:P:51:LEU:CD1	4:P:56:SER:HA	2.29	0.62
9:U:62:ILE:O	9:U:62:ILE:HG12	1.98	0.62
1:A:263:LEU:C	1:A:265:HIS:H	2.03	0.62
1:A:630:LEU:O	1:A:633:THR:CG2	2.47	0.62
1:A:890:SER:HB3	1:A:1300:GLU:CG	2.28	0.62
2:B:1159:ARG:CD	2:B:1193:GLN:HE21	2.12	0.62
3:C:184:ASN:ND2	3:C:189:THR:HB	2.15	0.62
3:C:259:LEU:HD11	11:K:88:GLU:HA	1.82	0.62
4:D:56:SER:CB	4:D:109:LEU:HD11	2.29	0.62
9:I:19:ASP:OD1	9:I:22:ASN:HB2	2.00	0.62
1:M:107:CYS:SG	1:M:148:CYS:HB2	2.40	0.62
1:M:371:ILE:HG22	1:M:375:LEU:HD12	1.80	0.62
1:M:864:ILE:HG22	5:Q:173:GLN:O	2.00	0.62
2:N:847:ASP:C	2:N:849:GLY:H	2.00	0.62
2:B:401:LEU:HD13	2:B:538:ILE:HD12	1.80	0.62
2:N:220:ALA:HB1	2:N:222:PRO:HD2	1.82	0.62
2:N:401:LEU:HD13	2:N:538:ILE:HD12	1.80	0.62
2:N:758:PHE:CZ	2:N:1044:ALA:HA	2.35	0.62
2:N:1094:ARG:NH2	2:N:1098:MET:HG2	2.13	0.62
3:O:65:ARG:NH2	10:V:3:ILE:O	2.33	0.62
9:U:26:LEU:HD23	9:U:37:LEU:HA	1.82	0.62
1:A:1122:LEU:CD1	1:A:1122:LEU:H	2.13	0.62
2:B:416:LYS:HB2	2:B:416:LYS:NZ	2.15	0.62
3:C:221:TYR:CD1	3:C:222:LYS:HG3	2.35	0.62
5:E:41:PHE:HZ	5:E:57:MET:HE1	1.64	0.62
8:H:58:THR:HG22	8:H:59:LEU:N	2.15	0.62
9:I:26:LEU:HD23	9:I:37:LEU:HA	1.81	0.62
1:M:846:LEU:HD12	1:M:1071:ALA:HB2	1.80	0.62
1:M:854:ASP:OD1	1:M:856:THR:HG22	2.00	0.62
1:M:962:LEU:HA	1:M:965:ILE:CG2	2.30	0.62
2:N:883:LEU:O	2:N:885:LEU:N	2.33	0.62
2:B:37:SER:OG	2:B:404:PRO:HD3	2.00	0.62
2:B:758:PHE:CZ	2:B:1044:ALA:HA	2.35	0.62
2:B:883:LEU:O	2:B:885:LEU:N	2.33	0.62
7:G:160:ILE:HG22	7:G:161:GLY:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:256:THR:H	2:N:935:ARG:NH1	1.97	0.62
1:M:321:ARG:HH22	1:M:324:LYS:HE3	1.64	0.62
1:M:505:LEU:HD11	6:R:91:ALA:CB	2.30	0.62
1:M:981:SER:OG	1:M:982:ASP:N	2.32	0.62
2:N:480:THR:O	2:N:483:SER:HB3	2.00	0.62
2:N:916:THR:HB	2:N:935:ARG:CG	2.29	0.62
3:O:219:PHE:CD2	8:T:45:GLU:HG2	2.35	0.62
4:P:68:SER:HB2	4:P:93:THR:HG21	1.80	0.62
1:A:270:ILE:HD13	1:A:301:VAL:HG22	1.81	0.61
1:A:521:VAL:CG1	1:A:521:VAL:CA	2.73	0.61
2:B:782:LEU:HD12	2:B:788:ARG:HH11	1.62	0.61
2:B:842:ASN:ND2	2:B:845:SER:OG	2.33	0.61
2:B:1196:ILE:HB	2:B:1197:PRO:HD2	1.82	0.61
12:L:62:ARG:HG2	12:L:63:THR:H	1.64	0.61
1:M:776:ILE:CD1	1:M:816:PHE:HB3	2.30	0.61
1:M:1122:LEU:CD1	1:M:1122:LEU:H	2.13	0.61
2:N:446:ILE:O	2:N:450:LEU:HG	2.00	0.61
2:N:1196:ILE:HB	2:N:1197:PRO:HD2	1.82	0.61
2:N:1220:ARG:HB3	2:N:1220:ARG:CZ	2.29	0.61
3:O:184:ASN:ND2	3:O:189:THR:HB	2.15	0.61
9:U:40:ASP:CG	9:U:41:PRO:HD2	2.20	0.61
12:X:30:LYS:HG3	12:X:41:SER:OG	1.99	0.61
1:A:854:ASP:OD1	1:A:856:THR:HG22	2.00	0.61
1:A:981:SER:OG	1:A:982:ASP:N	2.32	0.61
2:B:446:ILE:O	2:B:450:LEU:HG	2.01	0.61
7:G:7:LEU:HB2	7:G:74:TYR:CE2	2.34	0.61
9:I:40:ASP:CG	9:I:41:PRO:HD2	2.20	0.61
1:M:846:LEU:HB3	1:M:849:ILE:HD12	1.81	0.61
2:N:290:LEU:HD12	2:N:306:LEU:HD13	1.81	0.61
2:N:416:LYS:HB2	2:N:416:LYS:NZ	2.15	0.61
2:N:815:ARG:O	10:V:53:VAL:HG21	2.00	0.61
2:N:955:THR:HG22	2:N:956:THR:N	2.14	0.61
3:O:259:LEU:HD11	11:W:88:GLU:HA	1.82	0.61
8:T:58:THR:HG22	8:T:59:LEU:N	2.15	0.61
10:V:46:ARG:HG2	10:V:46:ARG:HH11	1.64	0.61
1:A:63:ARG:HA	1:A:74:MET:HE1	1.81	0.61
1:A:352:THR:HG21	2:B:1103:ILE:HD12	1.81	0.61
1:A:848:ASP:O	1:A:859:ASN:HA	2.00	0.61
2:B:417:LEU:O	2:B:421:ILE:HG13	2.00	0.61
2:B:983:ARG:HH11	2:B:1091:TYR:HB3	1.66	0.61
10:J:7:CYS:SG	10:J:48:MET:HE3	2.39	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:46:ARG:HG2	10:J:46:ARG:HH11	1.64	0.61
1:M:19:PHE:HB3	1:M:1416:GLY:HA2	1.81	0.61
1:M:69:THR:C	1:M:71:GLY:N	2.50	0.61
1:M:263:LEU:C	1:M:265:HIS:H	2.03	0.61
2:N:417:LEU:O	2:N:421:ILE:HG13	2.00	0.61
2:N:834:ASN:HA	2:N:838:SER:O	2.00	0.61
7:S:7:LEU:HB2	7:S:74:TYR:CE2	2.34	0.61
1:A:34:LYS:HD3	1:A:34:LYS:N	2.15	0.61
1:A:371:ILE:HG22	1:A:375:LEU:HD12	1.80	0.61
1:A:1447:MET:HB3	7:G:59:GLY:O	2.00	0.61
3:C:221:TYR:CE1	3:C:222:LYS:HG3	2.36	0.61
5:E:16:ARG:O	5:E:20:GLU:HG3	2.00	0.61
7:G:7:LEU:CD1	7:G:45:ILE:HD11	2.30	0.61
7:G:34:VAL:HG11	7:G:74:TYR:OH	2.01	0.61
8:H:38:LEU:HD13	8:H:124:LEU:HD13	1.82	0.61
1:M:34:LYS:HD3	1:M:34:LYS:N	2.15	0.61
1:M:744:VAL:O	1:M:748:VAL:HG23	2.01	0.61
1:M:960:VAL:HG22	1:M:1054:GLN:HB3	1.82	0.61
1:M:1331:TYR:CD1	1:M:1338:ILE:HD11	2.35	0.61
3:O:45:ILE:HG23	3:O:157:CYS:HB3	1.81	0.61
3:O:115:SER:OG	3:O:142:ILE:CG1	2.48	0.61
1:A:561:VAL:HG23	8:H:78:TRP:H	1.66	0.61
1:A:1331:TYR:CD1	1:A:1338:ILE:HD11	2.35	0.61
3:C:65:ARG:NH1	10:J:2:ILE:CG2	2.63	0.61
5:E:14:SER:O	5:E:18:VAL:HG23	2.01	0.61
11:K:70:ASN:O	11:K:71:PHE:HB3	2.00	0.61
2:N:744:HIS:CD2	2:N:746:SER:OG	2.53	0.61
11:W:70:ASN:O	11:W:71:PHE:HB3	2.00	0.61
1:A:1016:ALA:O	1:A:1017:THR:HG22	2.00	0.61
2:B:1116:ARG:CG	2:B:1198:TYR:CD1	2.72	0.61
1:M:546:GLN:HG2	1:M:550:MET:HE2	1.82	0.61
1:M:630:LEU:HA	1:M:633:THR:CG2	2.30	0.61
2:N:1073:TYR:CE2	2:N:1080:LYS:HG2	2.36	0.61
6:R:101:ILE:HD13	6:R:120:ILE:HG22	1.81	0.61
11:W:40:HIS:HD1	11:W:61:TYR:HH	1.48	0.61
1:A:699:GLN:HA	9:I:97:MET:O	2.01	0.61
1:A:827:ASP:O	1:A:831:LYS:HG2	2.00	0.61
1:A:1326:ASP:OD1	1:A:1328:SER:HB2	2.01	0.61
2:B:270:GLN:CG	2:B:271:ASP:H	2.12	0.61
2:B:815:ARG:O	10:J:53:VAL:HG21	2.00	0.61
2:B:1183:ARG:O	2:B:1184:SER:CB	2.46	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:82:THR:HG22	6:F:84:TYR:N	2.10	0.61
1:M:775:ARG:HB2	1:M:798:LYS:HB3	1.83	0.61
1:M:848:ASP:O	1:M:859:ASN:HA	2.00	0.61
3:O:164:ALA:HA	3:O:167:HIS:O	1.99	0.61
3:O:221:TYR:CD1	3:O:222:LYS:HG3	2.35	0.61
5:Q:16:ARG:O	5:Q:20:GLU:HG3	2.00	0.61
6:R:99:LEU:C	6:R:99:LEU:HD12	2.21	0.61
7:S:7:LEU:CD1	7:S:45:ILE:HD11	2.30	0.61
8:T:80:PRO:HB2	8:T:81:PRO:HD2	1.83	0.61
12:X:62:ARG:HG2	12:X:63:THR:H	1.64	0.61
1:A:203:LEU:CG	1:A:207:GLU:HB2	2.31	0.61
1:A:801:VAL:HG22	1:A:813:GLU:CB	2.17	0.61
2:B:211:ALA:O	2:B:213:ILE:HG13	2.01	0.61
2:B:253:GLU:O	2:B:253:GLU:HG2	2.00	0.61
2:B:480:THR:O	2:B:483:SER:HB3	2.00	0.61
2:B:955:THR:HG22	2:B:956:THR:N	2.14	0.61
7:G:34:VAL:CG1	7:G:45:ILE:HG21	2.29	0.61
1:M:70:CYS:O	1:M:72:GLU:HG2	2.01	0.61
1:M:561:VAL:HG23	8:T:78:TRP:H	1.66	0.61
2:N:253:GLU:HG2	2:N:253:GLU:O	2.00	0.61
2:N:1142:GLY:HA3	6:R:88:TYR:CE2	2.35	0.61
7:S:34:VAL:CG1	7:S:45:ILE:HG21	2.29	0.61
8:T:61:ASN:O	8:T:62:SER:HB2	2.01	0.61
9:U:7:CYS:HB2	9:U:34:TYR:CD1	2.36	0.61
1:A:967:GLN:HA	1:A:970:GLN:CG	2.30	0.61
2:B:220:ALA:HB1	2:B:222:PRO:HD2	1.82	0.61
3:C:164:ALA:HA	3:C:167:HIS:O	1.99	0.61
9:I:7:CYS:HB2	9:I:34:TYR:CD1	2.36	0.61
1:M:444:LEU:CD1	1:M:456:MET:HB3	2.27	0.61
1:M:667:ILE:HD11	2:N:1067:ARG:O	2.00	0.61
1:M:699:GLN:HA	9:U:97:MET:O	2.01	0.61
1:M:827:ASP:O	1:M:831:LYS:HG2	2.00	0.61
1:M:1163:THR:HG22	1:M:1165:ILE:N	2.15	0.61
1:M:1326:ASP:OD1	1:M:1328:SER:HB2	2.01	0.61
2:N:556:MET:HE3	2:N:573:ILE:HG21	0.64	0.61
2:N:983:ARG:HH11	2:N:1091:TYR:HB3	1.66	0.61
5:Q:14:SER:O	5:Q:18:VAL:HG23	2.01	0.61
1:A:630:LEU:HA	1:A:633:THR:CG2	2.30	0.61
1:A:775:ARG:HB2	1:A:798:LYS:HB3	1.83	0.61
1:A:872:ASP:OD2	1:A:874:LEU:HB2	2.00	0.61
1:A:1293:SER:O	1:A:1294:VAL:HG23	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:267:LEU:HD21	1:M:304:TYR:CE1	2.36	0.61
1:M:521:VAL:CG1	1:M:521:VAL:CA	2.73	0.61
1:M:872:ASP:OD2	1:M:874:LEU:HB2	2.00	0.61
1:M:967:GLN:HA	1:M:970:GLN:CG	2.30	0.61
2:N:798:TYR:HD2	2:N:798:TYR:N	1.98	0.61
3:O:221:TYR:CE1	3:O:222:LYS:HG3	2.36	0.61
7:S:34:VAL:HG11	7:S:74:TYR:OH	2.01	0.61
10:V:13:VAL:O	10:V:14:VAL:HG22	2.01	0.61
1:A:19:PHE:HB3	1:A:1416:GLY:HA2	1.81	0.60
1:A:538:ARG:HH22	8:H:121:LEU:CD1	2.14	0.60
2:B:387:ASP:OD1	9:I:91:ARG:HB3	2.01	0.60
10:J:13:VAL:O	10:J:14:VAL:HG22	2.01	0.60
12:L:30:LYS:HG3	12:L:41:SER:OG	1.99	0.60
1:M:108:MET:C	1:M:110:CYS:H	2.03	0.60
1:M:446:ASN:HB2	1:M:455:SER:O	1.99	0.60
1:M:1016:ALA:O	1:M:1017:THR:HG22	2.00	0.60
2:N:211:ALA:O	2:N:213:ILE:HG13	2.01	0.60
2:N:842:ASN:ND2	2:N:845:SER:OG	2.33	0.60
3:O:66:LEU:N	3:O:66:LEU:HD23	2.16	0.60
1:A:417:ARG:HG3	1:A:418:TYR:CD2	2.36	0.60
1:A:744:VAL:O	1:A:748:VAL:HG23	2.01	0.60
2:B:111:TYR:HE2	2:B:170:CYS:HG	1.49	0.60
2:B:405:LEU:HB3	2:B:459:TRP:CZ2	2.36	0.60
3:C:31:SER:O	3:C:35:THR:CG2	2.44	0.60
3:C:42:THR:CG2	3:C:43:LEU:H	1.90	0.60
6:F:99:LEU:C	6:F:99:LEU:HD12	2.21	0.60
1:M:691:VAL:O	1:M:695:ILE:CG1	2.49	0.60
1:M:890:SER:HB3	1:M:1300:GLU:HG3	1.81	0.60
1:M:1293:SER:O	1:M:1294:VAL:HG23	2.00	0.60
2:N:459:TRP:HA	2:N:459:TRP:CE3	2.34	0.60
2:N:744:HIS:ND1	2:N:745:PRO:HD2	2.15	0.60
2:N:800:GLN:HG2	10:V:51:THR:CG2	2.30	0.60
10:V:1:MET:H1	10:V:55:LEU:N	1.99	0.60
10:V:2:ILE:H	10:V:56:ILE:HG22	1.66	0.60
1:A:267:LEU:HD21	1:A:304:TYR:CE1	2.36	0.60
1:A:446:ASN:HB2	1:A:455:SER:O	1.99	0.60
2:B:556:MET:HE2	2:B:573:ILE:HG21	1.61	0.60
2:B:744:HIS:CD2	2:B:746:SER:OG	2.53	0.60
2:B:872:GLU:OE1	2:B:914:LYS:HE3	2.01	0.60
9:I:95:THR:HG22	9:I:96:ASN:N	2.15	0.60
10:J:1:MET:H1	10:J:55:LEU:N	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:203:LEU:CG	1:M:207:GLU:HB2	2.31	0.60
1:M:264:THR:O	1:M:264:THR:HG22	2.01	0.60
1:M:417:ARG:HG3	1:M:418:TYR:CD2	2.36	0.60
1:M:535:MET:O	1:M:575:GLY:HA3	2.02	0.60
2:N:405:LEU:HB3	2:N:459:TRP:CZ2	2.36	0.60
3:O:65:ARG:NH1	10:V:2:ILE:CG2	2.63	0.60
10:V:5:VAL:HG12	10:V:6:ARG:HG3	1.83	0.60
1:A:667:ILE:HD11	2:B:1067:ARG:O	2.00	0.60
1:A:770:MET:H	1:A:820:ALA:CB	2.14	0.60
2:B:744:HIS:ND1	2:B:745:PRO:HD2	2.15	0.60
3:C:66:LEU:N	3:C:66:LEU:HD23	2.16	0.60
5:E:174:LEU:HD23	5:E:175:PRO:CD	2.28	0.60
8:H:61:ASN:O	8:H:62:SER:HB2	2.01	0.60
4:P:139:PRO:O	4:P:142:ILE:HG23	2.00	0.60
5:Q:21:MET:CE	5:Q:25:ARG:HE	2.15	0.60
9:U:95:THR:HG22	9:U:96:ASN:N	2.15	0.60
1:A:108:MET:C	1:A:110:CYS:H	2.03	0.60
2:B:181:TYR:CD2	10:J:61:ARG:HB3	2.37	0.60
2:B:800:GLN:HG2	10:J:51:THR:CG2	2.30	0.60
1:M:801:VAL:HG11	1:M:809:LEU:HD11	1.83	0.60
1:M:911:PRO:CB	1:M:917:ALA:HB1	2.22	0.60
1:M:1444:PHE:HA	6:R:137:TYR:HD1	1.65	0.60
2:N:872:GLU:OE1	2:N:914:LYS:HE3	2.01	0.60
3:O:148:ARG:CG	3:O:149:ASN:H	2.12	0.60
1:A:70:CYS:O	1:A:72:GLU:HG2	2.01	0.60
1:A:739:LYS:HB2	1:A:741:LEU:CD2	2.24	0.60
1:A:771:VAL:HG22	1:A:819:MET:O	2.02	0.60
2:B:459:TRP:HA	2:B:459:TRP:CE3	2.35	0.60
5:E:21:MET:CE	5:E:25:ARG:HE	2.15	0.60
2:N:847:ASP:HB3	3:O:167:HIS:NE2	2.16	0.60
3:O:42:THR:CG2	3:O:43:LEU:H	1.90	0.60
3:O:167:HIS:HE1	12:X:72:THR:HA	1.66	0.60
5:Q:16:ARG:HG3	5:Q:16:ARG:NH1	2.17	0.60
8:T:38:LEU:HD13	8:T:124:LEU:HD13	1.82	0.60
1:A:389:LEU:O	1:A:393:VAL:HG23	2.02	0.60
1:A:691:VAL:O	1:A:695:ILE:CG1	2.49	0.60
1:A:1163:THR:HG22	1:A:1165:ILE:N	2.15	0.60
7:G:7:LEU:HB2	7:G:74:TYR:HE2	1.66	0.60
7:G:9:LEU:HG	7:G:10:ILE:N	2.16	0.60
10:J:2:ILE:H	10:J:56:ILE:HG22	1.65	0.60
2:N:181:TYR:CD2	10:V:61:ARG:HB3	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:9:ILE:HG12	8:T:56:THR:HG23	1.84	0.60
1:A:525:VAL:HG12	1:A:526:GLN:H	1.67	0.60
1:A:801:VAL:HG21	1:A:809:LEU:HD21	1.81	0.60
1:A:960:VAL:HG22	1:A:1054:GLN:HB3	1.82	0.60
1:A:967:GLN:HA	1:A:970:GLN:HG3	1.83	0.60
2:B:290:LEU:HD12	2:B:306:LEU:HD13	1.82	0.60
2:B:798:TYR:CD2	2:B:798:TYR:N	2.68	0.60
2:B:1073:TYR:CE2	2:B:1080:LYS:HG2	2.36	0.60
3:C:167:HIS:HE1	12:L:72:THR:HA	1.66	0.60
10:J:5:VAL:HG12	10:J:6:ARG:HG3	1.83	0.60
1:M:41:MET:CB	1:M:49:ARG:HA	2.22	0.60
1:M:525:VAL:HG12	1:M:526:GLN:H	1.67	0.60
2:N:111:TYR:HE2	2:N:170:CYS:HG	1.49	0.60
1:A:493:PRO:CB	1:A:498:THR:HG22	2.32	0.60
1:A:591:ARG:HD3	1:A:605:GLY:HA2	1.84	0.60
1:A:630:LEU:O	1:A:634:VAL:HG23	2.02	0.60
2:B:770:GLN:HG2	2:B:983:ARG:O	2.02	0.60
3:C:148:ARG:CG	3:C:149:ASN:H	2.13	0.60
4:D:139:PRO:O	4:D:142:ILE:HG23	2.00	0.60
8:H:9:ILE:HG12	8:H:56:THR:HG23	1.84	0.60
1:M:538:ARG:HH22	8:T:121:LEU:CD1	2.14	0.60
1:M:630:LEU:O	1:M:634:VAL:HG23	2.02	0.60
1:M:962:LEU:O	1:M:965:ILE:HG22	2.00	0.60
1:M:967:GLN:O	1:M:970:GLN:HB2	2.02	0.60
2:N:52:GLU:HG3	2:N:53:GLU:N	2.15	0.60
2:N:1208:MET:O	2:N:1211:ASN:N	2.31	0.60
5:Q:107:GLY:HA3	5:Q:131:ILE:HG23	1.84	0.60
1:A:264:THR:O	1:A:264:THR:HG22	2.01	0.60
1:A:410:ASN:O	1:A:412:ASP:N	2.35	0.60
1:A:568:LYS:CB	1:A:569:PRO:HD2	2.31	0.60
1:A:642:ILE:CG1	1:A:643:CYS:N	2.64	0.60
2:B:52:GLU:HG3	2:B:53:GLU:N	2.15	0.60
2:B:634:GLU:C	2:B:636:ASP:H	2.05	0.60
1:M:389:LEU:O	1:M:393:VAL:HG23	2.02	0.60
2:N:41:PHE:HA	2:N:45:SER:HB2	1.83	0.60
2:N:634:GLU:C	2:N:636:ASP:H	2.05	0.60
3:O:74:GLU:O	3:O:246:ARG:NH2	2.30	0.60
1:A:535:MET:O	1:A:575:GLY:HA3	2.02	0.59
1:A:536:THR:CG2	1:A:617:VAL:HA	2.32	0.59
1:A:770:MET:H	1:A:820:ALA:HB2	1.66	0.59
1:A:776:ILE:CD1	1:A:816:PHE:CB	2.79	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:869:TYR:HE1	1:A:1066:VAL:HG13	1.67	0.59
1:A:962:LEU:O	1:A:965:ILE:HG22	2.01	0.59
2:B:30:LEU:HD13	2:B:485:LEU:HD13	1.84	0.59
2:B:41:PHE:HA	2:B:45:SER:HB2	1.83	0.59
2:B:607:SER:OG	2:B:620:PHE:HB2	2.02	0.59
2:B:798:TYR:HD2	2:B:798:TYR:N	1.98	0.59
2:B:1096:ARG:O	2:B:1097:HIS:CB	2.50	0.59
1:M:173:PRO:HD3	1:M:186:TRP:NE1	2.17	0.59
1:M:568:LYS:CB	1:M:569:PRO:HD2	2.31	0.59
1:M:967:GLN:HA	1:M:970:GLN:HG3	1.82	0.59
7:S:7:LEU:HB2	7:S:74:TYR:HE2	1.66	0.59
1:A:831:LYS:O	1:A:835:THR:HB	2.02	0.59
1:A:1376:ASP:O	1:A:1379:THR:HG22	2.02	0.59
2:B:266:PRO:O	2:B:267:TYR:HB2	2.02	0.59
2:B:648:THR:H	2:B:651:HIS:HD2	1.50	0.59
2:B:761:HIS:HB2	2:B:1024:ALA:HB2	1.84	0.59
2:B:1166:CYS:O	2:B:1168:LEU:N	2.35	0.59
5:E:107:GLY:HA3	5:E:131:ILE:HG23	1.84	0.59
1:M:86:LEU:HG	1:M:238:THR:O	2.02	0.59
1:M:591:ARG:HD3	1:M:605:GLY:HA2	1.84	0.59
1:M:681:THR:HG23	2:N:726:ILE:CD1	2.32	0.59
1:M:831:LYS:O	1:M:835:THR:HB	2.02	0.59
2:N:290:LEU:HD22	2:N:290:LEU:H	1.62	0.59
2:N:648:THR:H	2:N:651:HIS:HD2	1.50	0.59
2:N:761:HIS:HB2	2:N:1024:ALA:HB2	1.85	0.59
2:N:799:PRO:HG2	10:V:55:LEU:HD11	1.85	0.59
2:N:1096:ARG:O	2:N:1097:HIS:CB	2.50	0.59
1:A:72:GLU:OE2	2:B:1175:LEU:HB2	2.02	0.59
1:A:86:LEU:HG	1:A:238:THR:O	2.02	0.59
1:A:362:LEU:HA	1:A:472:ASN:ND2	2.18	0.59
1:A:444:LEU:CD1	1:A:456:MET:HB3	2.28	0.59
1:A:505:LEU:HD11	6:F:91:ALA:CB	2.32	0.59
1:A:681:THR:HG23	2:B:726:ILE:CD1	2.32	0.59
2:B:292:HIS:O	2:B:295:TYR:HE2	1.86	0.59
2:B:572:ARG:HB2	2:B:579:TRP:NE1	2.16	0.59
8:H:142:LEU:C	8:H:143:ILE:HG13	2.23	0.59
1:M:1444:PHE:HE2	6:R:89:GLU:HG2	1.66	0.59
2:N:344:TYR:CE2	2:N:348:ILE:HD11	2.37	0.59
2:N:572:ARG:HB2	2:N:579:TRP:NE1	2.16	0.59
2:N:770:GLN:HG2	2:N:983:ARG:O	2.02	0.59
2:N:1120:GLU:HG2	2:N:1121:GLY:N	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1166:CYS:O	2:N:1168:LEU:N	2.36	0.59
8:T:142:LEU:C	8:T:143:ILE:HG13	2.23	0.59
1:A:69:THR:O	1:A:71:GLY:N	2.35	0.59
1:A:493:PRO:HB3	1:A:502:LEU:CD1	2.31	0.59
1:A:1331:TYR:HD1	1:A:1338:ILE:HD11	1.66	0.59
2:B:344:TYR:CE2	2:B:348:ILE:HD11	2.38	0.59
1:M:69:THR:O	1:M:71:GLY:N	2.35	0.59
1:M:1085:THR:HG21	1:M:1097:THR:HA	1.85	0.59
2:N:607:SER:OG	2:N:620:PHE:HB2	2.02	0.59
3:O:167:HIS:CD2	3:O:168:ALA:H	2.18	0.59
8:T:18:GLY:O	8:T:19:ARG:HB2	2.02	0.59
1:A:53:LEU:CD2	1:A:54:ASN:N	2.57	0.59
2:B:847:ASP:HB3	3:C:167:HIS:NE2	2.16	0.59
2:B:1120:GLU:HG2	2:B:1121:GLY:N	2.16	0.59
3:C:119:ILE:CG1	3:C:121:VAL:HG22	2.33	0.59
3:C:167:HIS:CD2	3:C:168:ALA:H	2.19	0.59
5:E:16:ARG:HG3	5:E:16:ARG:NH1	2.17	0.59
1:M:568:LYS:HD3	8:T:94:TYR:CD2	2.37	0.59
1:M:577:GLN:O	1:M:580:SER:HB2	2.02	0.59
1:M:642:ILE:CG1	1:M:643:CYS:N	2.64	0.59
1:M:1376:ASP:O	1:M:1379:THR:HG22	2.02	0.59
2:N:292:HIS:O	2:N:295:TYR:HE2	1.86	0.59
1:A:577:GLN:O	1:A:580:SER:HB2	2.03	0.59
2:B:857:ARG:HG2	2:B:859:TYR:CE1	2.38	0.59
2:B:955:THR:CG2	2:B:956:THR:N	2.65	0.59
11:K:40:HIS:HD1	11:K:61:TYR:HH	1.48	0.59
1:M:362:LEU:HA	1:M:472:ASN:ND2	2.18	0.59
1:M:493:PRO:CB	1:M:498:THR:HG22	2.32	0.59
1:M:536:THR:CG2	1:M:617:VAL:HA	2.32	0.59
2:N:266:PRO:O	2:N:267:TYR:HB2	2.02	0.59
3:O:167:HIS:CE1	12:X:72:THR:HA	2.38	0.59
1:A:173:PRO:HD3	1:A:186:TRP:NE1	2.17	0.59
1:A:568:LYS:HD3	8:H:94:TYR:CD2	2.37	0.59
1:A:967:GLN:O	1:A:970:GLN:HB2	2.02	0.59
1:A:1371:MET:CE	1:A:1371:MET:H	2.16	0.59
2:B:587:SER:HA	2:B:610:ARG:NH1	2.18	0.59
3:C:74:GLU:O	3:C:246:ARG:NH2	2.31	0.59
3:C:167:HIS:CE1	12:L:72:THR:HA	2.38	0.59
1:M:1348:ARG:NH1	1:M:1376:ASP:OD1	2.35	0.59
1:M:1444:PHE:HA	6:R:137:TYR:CD1	2.38	0.59
2:N:804:ALA:HA	2:N:1042:GLY:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:955:THR:CG2	2:N:956:THR:N	2.66	0.59
2:N:1152:MET:CE	2:N:1157:ALA:HA	2.32	0.59
1:A:776:ILE:CG1	1:A:816:PHE:CB	2.65	0.59
2:B:650:GLU:O	2:B:654:LYS:HB2	2.03	0.59
2:B:799:PRO:HG2	10:J:55:LEU:HD11	1.84	0.59
5:E:84:GLU:HB2	5:E:87:VAL:HG22	1.85	0.59
1:M:410:ASN:O	1:M:412:ASP:N	2.35	0.59
1:M:519:LYS:HE2	1:M:625:SER:O	2.02	0.59
1:M:1215:ALA:HA	1:M:1218:ILE:HD12	1.84	0.59
2:N:798:TYR:CD2	2:N:798:TYR:N	2.68	0.59
2:N:857:ARG:HG2	2:N:859:TYR:CE1	2.38	0.59
3:O:226:ASN:O	3:O:227:ARG:HB2	2.03	0.59
1:A:14:VAL:H	1:A:1435:GLN:HE22	1.51	0.59
1:A:1215:ALA:HA	1:A:1218:ILE:HD12	1.84	0.59
1:A:1348:ARG:NH1	1:A:1376:ASP:OD1	2.35	0.59
2:B:286:ASP:C	2:B:288:GLU:H	2.06	0.59
6:F:101:ILE:HD13	6:F:120:ILE:CG2	2.33	0.59
11:K:53:TYR:O	11:K:55:ASP:N	2.36	0.59
1:M:1016:ALA:O	1:M:1017:THR:CG2	2.51	0.59
1:M:1214:VAL:O	1:M:1218:ILE:HG13	2.03	0.59
1:M:1371:MET:CE	1:M:1371:MET:H	2.16	0.59
2:N:159:GLY:HA2	2:N:447:THR:OG1	2.02	0.59
5:Q:21:MET:CE	5:Q:25:ARG:HH21	2.15	0.59
6:R:101:ILE:HD13	6:R:120:ILE:CG2	2.33	0.59
8:T:59:LEU:O	8:T:60:ALA:CB	2.50	0.59
1:A:519:LYS:HE2	1:A:625:SER:O	2.02	0.59
1:A:576:LYS:HE2	1:A:616:GLY:O	2.03	0.59
1:A:1034:LEU:O	1:A:1038:ARG:HD3	2.02	0.59
1:A:1085:THR:HG21	1:A:1097:THR:HA	1.85	0.59
1:A:1279:ILE:CG2	1:A:1282:ILE:HD12	2.32	0.59
2:B:86:ARG:HB3	2:B:87:PRO:HD2	1.85	0.59
2:B:394:PHE:CE1	2:B:511:HIS:CE1	2.91	0.59
2:B:950:ASP:O	2:B:951:GLN:HB2	2.02	0.59
5:E:21:MET:CE	5:E:25:ARG:HH21	2.15	0.59
1:M:14:VAL:H	1:M:1435:GLN:HE22	1.51	0.59
1:M:984:THR:H	1:M:987:GLU:CG	2.16	0.59
1:M:1331:TYR:HD1	1:M:1338:ILE:HD11	1.66	0.59
5:Q:175:PRO:O	5:Q:211:ARG:HA	2.03	0.59
1:A:332:GLY:O	1:A:333:LYS:HB3	2.03	0.58
1:A:926:LEU:HD13	1:A:985:ILE:HD12	1.85	0.58
1:A:1397:THR:HG21	1:A:1401:MET:SD	2.43	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1202:LEU:HD23	2:B:1206:GLU:CG	2.32	0.58
1:M:332:GLY:O	1:M:333:LYS:HB3	2.03	0.58
1:M:1154:ILE:HG13	9:U:44:TYR:HB3	1.85	0.58
2:N:650:GLU:O	2:N:654:LYS:HB2	2.03	0.58
5:Q:25:ARG:NH2	5:Q:132:GLU:OE1	2.36	0.58
11:W:53:TYR:O	11:W:55:ASP:N	2.35	0.58
1:A:1214:VAL:O	1:A:1218:ILE:HG13	2.03	0.58
3:C:251:LEU:O	3:C:251:LEU:HD12	2.02	0.58
4:D:169:VAL:O	4:D:172:GLN:HB2	2.03	0.58
8:H:18:GLY:O	8:H:19:ARG:HB2	2.02	0.58
1:M:54:ASN:C	1:M:56:PRO:HD3	2.24	0.58
1:M:72:GLU:OE2	2:N:1175:LEU:HB2	2.02	0.58
1:M:512:ILE:O	1:M:520:PRO:HA	2.03	0.58
1:M:864:ILE:HG23	5:Q:175:PRO:CD	2.28	0.58
1:M:871:GLU:HB2	5:Q:203:THR:HG21	1.86	0.58
1:M:1326:ASP:C	1:M:1328:SER:H	2.05	0.58
2:N:30:LEU:HD13	2:N:485:LEU:HD13	1.84	0.58
2:N:286:ASP:C	2:N:288:GLU:H	2.06	0.58
8:T:94:TYR:CE2	8:T:96:MET:HG3	2.38	0.58
1:A:50:GLU:C	1:A:52:GLY:H	2.06	0.58
1:A:968:ASN:O	1:A:972:ILE:CG1	2.51	0.58
1:A:1268:ALA:O	1:A:1270:MET:N	2.36	0.58
2:B:1115:THR:O	2:B:1198:TYR:CD2	2.55	0.58
1:M:42:ASP:HB3	1:M:45:ARG:H	1.68	0.58
1:M:55:ASP:N	1:M:56:PRO:CD	2.66	0.58
1:M:869:TYR:HE1	1:M:1066:VAL:HG13	1.67	0.58
1:M:900:VAL:HB	1:M:930:LEU:CD1	2.31	0.58
3:O:243:VAL:O	3:O:243:VAL:HG12	2.02	0.58
1:A:54:ASN:C	1:A:56:PRO:HD3	2.24	0.58
1:A:55:ASP:N	1:A:56:PRO:CD	2.66	0.58
1:A:365:VAL:O	1:A:365:VAL:HG13	2.02	0.58
1:A:791:ASP:OD2	9:I:87:GLN:HG3	2.03	0.58
1:A:1016:ALA:O	1:A:1017:THR:CG2	2.51	0.58
1:A:1154:ILE:HG13	9:I:44:TYR:HB3	1.85	0.58
2:B:1208:MET:O	2:B:1211:ASN:N	2.31	0.58
3:C:243:VAL:O	3:C:243:VAL:HG12	2.02	0.58
11:K:10:PHE:N	11:K:10:PHE:CD2	2.72	0.58
1:M:365:VAL:HG13	1:M:365:VAL:O	2.02	0.58
1:M:493:PRO:HB3	1:M:502:LEU:CD1	2.31	0.58
1:M:859:ASN:HD21	1:M:861:LEU:HB2	1.69	0.58
1:M:1426:GLY:O	1:M:1429:GLU:HG2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:278:PHE:CD1	2:N:289:ILE:HG23	2.39	0.58
2:N:594:ARG:O	2:N:598:ARG:HG3	2.03	0.58
3:O:31:SER:O	3:O:35:THR:CG2	2.44	0.58
3:O:111:THR:O	3:O:147:LEU:HD23	2.04	0.58
1:A:887:ILE:HG13	1:A:944:LEU:HB2	1.84	0.58
1:A:984:THR:H	1:A:987:GLU:CG	2.17	0.58
2:B:278:PHE:CD1	2:B:289:ILE:HG23	2.39	0.58
3:C:226:ASN:O	3:C:227:ARG:HB2	2.02	0.58
5:E:25:ARG:NH2	5:E:132:GLU:OE1	2.37	0.58
8:H:80:PRO:HB2	8:H:81:PRO:HD2	1.83	0.58
1:M:95:PHE:O	1:M:99:ILE:HG13	2.03	0.58
1:M:786:PRO:CG	2:N:700:ILE:HD12	2.34	0.58
1:M:1268:ALA:O	1:M:1270:MET:N	2.36	0.58
1:M:1403:CYS:SG	1:M:1412:LEU:HD21	2.43	0.58
2:N:86:ARG:HB3	2:N:87:PRO:HD2	1.85	0.58
2:N:158:ILE:CG2	2:N:446:ILE:HD12	2.32	0.58
2:N:621:THR:O	2:N:622:ASP:O	2.21	0.58
7:S:9:LEU:HG	7:S:10:ILE:N	2.16	0.58
12:X:63:THR:HG22	12:X:64:LYS:N	2.18	0.58
1:A:859:ASN:HD21	1:A:861:LEU:HB2	1.69	0.58
2:B:116:TYR:HA	2:B:156:VAL:O	2.04	0.58
2:B:594:ARG:O	2:B:598:ARG:HG3	2.03	0.58
1:M:317:GLN:HB2	1:M:323:VAL:CG2	2.34	0.58
1:M:1122:LEU:H	1:M:1122:LEU:HD13	1.68	0.58
2:N:587:SER:HA	2:N:610:ARG:NH1	2.18	0.58
2:N:639:LYS:O	2:N:640:ASP:CB	2.52	0.58
3:O:251:LEU:HD12	3:O:251:LEU:O	2.02	0.58
1:A:105:CYS:SG	1:A:139:TRP:HA	2.44	0.58
1:A:316:LEU:HD23	1:A:322:PRO:HA	1.86	0.58
1:A:871:GLU:HB2	5:E:203:THR:HG21	1.86	0.58
1:A:1085:THR:HG23	1:A:1098:LEU:H	1.69	0.58
2:B:1152:MET:HE3	2:B:1157:ALA:HA	1.84	0.58
2:B:1165:ILE:HG23	4:D:13:ARG:O	2.04	0.58
3:C:111:THR:O	3:C:147:LEU:HD23	2.04	0.58
8:H:40:LEU:HD22	8:H:122:MET:CE	2.34	0.58
1:M:181:LYS:HZ3	1:M:295:GLN:HB3	1.66	0.58
1:M:225:PHE:CD1	1:M:232:PRO:HG3	2.39	0.58
1:M:968:ASN:O	1:M:972:ILE:CG1	2.51	0.58
2:N:846:ILE:HG23	2:N:974:PRO:CG	2.33	0.58
5:Q:84:GLU:HB2	5:Q:87:VAL:HG22	1.85	0.58
8:T:36:ILE:HA	8:T:125:GLU:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:225:PHE:CD1	1:A:232:PRO:HG3	2.39	0.58
1:A:512:ILE:O	1:A:520:PRO:HA	2.03	0.58
1:A:786:PRO:CG	2:B:700:ILE:HD12	2.34	0.58
1:A:900:VAL:HB	1:A:930:LEU:CD1	2.31	0.58
1:A:1426:GLY:O	1:A:1429:GLU:HG2	2.03	0.58
2:B:159:GLY:HA2	2:B:447:THR:OG1	2.02	0.58
2:B:596:LEU:CD1	2:B:601:ALA:HB3	2.32	0.58
3:C:115:SER:HB3	3:C:142:ILE:CG1	2.33	0.58
5:E:175:PRO:O	5:E:211:ARG:HA	2.03	0.58
8:H:59:LEU:O	8:H:60:ALA:CB	2.50	0.58
1:M:243:PRO:HB3	2:N:1209:ALA:HB2	1.85	0.58
2:N:280:ALA:HA	2:N:323:LEU:HD12	1.86	0.58
2:N:1202:LEU:HD23	2:N:1206:GLU:CG	2.33	0.58
4:P:169:VAL:O	4:P:172:GLN:HB2	2.03	0.58
8:T:12:VAL:HG21	8:T:53:ASP:HB2	1.85	0.58
1:A:95:PHE:O	1:A:99:ILE:HG13	2.03	0.58
1:A:100:LYS:O	1:A:104:GLU:HG3	2.04	0.58
1:A:333:LYS:O	1:A:334:GLU:CB	2.52	0.58
1:A:1316:LEU:O	1:A:1318:GLU:N	2.36	0.58
2:B:392:ASP:CG	2:B:503:LYS:HG3	2.24	0.58
3:C:175:ALA:HB3	10:J:42:ARG:HH22	1.69	0.58
3:C:189:THR:HG22	3:C:190:ASP:N	2.19	0.58
4:D:38:GLN:HB2	7:G:5:LYS:HZ1	1.68	0.58
1:M:1021:GLN:CG	1:M:1021:GLN:CA	2.76	0.58
2:N:224:PRO:HG2	2:N:225:ILE:HD12	1.85	0.58
2:N:745:PRO:O	2:N:748:ILE:HG12	2.04	0.58
7:S:1:MET:HE1	7:S:80:LYS:HE3	1.86	0.58
11:W:10:PHE:CD2	11:W:10:PHE:N	2.72	0.58
1:A:243:PRO:HB3	2:B:1209:ALA:HB2	1.85	0.58
2:B:466:MET:HE3	2:B:467:SER:HA	1.86	0.58
2:B:514:LEU:HB3	2:B:626:VAL:CG1	2.34	0.58
2:B:745:PRO:O	2:B:748:ILE:HG12	2.04	0.58
2:B:804:ALA:HA	2:B:1042:GLY:O	2.02	0.58
2:B:976:ILE:O	2:B:976:ILE:HG22	2.04	0.58
8:H:36:ILE:HA	8:H:125:GLU:O	2.03	0.58
8:H:40:LEU:HB2	8:H:122:MET:HE2	1.86	0.58
10:J:46:ARG:HG2	10:J:46:ARG:NH1	2.18	0.58
1:M:791:ASP:OD2	9:U:87:GLN:HG3	2.03	0.58
1:M:926:LEU:HD13	1:M:985:ILE:HD12	1.85	0.58
1:M:1034:LEU:O	1:M:1038:ARG:HD3	2.02	0.58
1:M:1085:THR:HG23	1:M:1098:LEU:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1316:LEU:O	1:M:1318:GLU:N	2.36	0.58
2:N:681:LEU:O	2:N:687:ILE:CG2	2.52	0.58
2:N:976:ILE:HG22	2:N:976:ILE:O	2.04	0.58
5:Q:21:MET:HE3	5:Q:25:ARG:HE	1.68	0.58
1:A:42:ASP:HB3	1:A:45:ARG:H	1.68	0.57
1:A:353:VAL:O	1:A:468:THR:HB	2.04	0.57
1:A:1037:PHE:O	1:A:1039:LEU:N	2.37	0.57
1:A:1326:ASP:C	1:A:1328:SER:H	2.05	0.57
2:B:639:LYS:O	2:B:640:ASP:CB	2.52	0.57
2:B:824:ILE:HG12	10:J:47:ARG:HH12	1.69	0.57
1:M:105:CYS:SG	1:M:139:TRP:HA	2.44	0.57
1:M:1257:ALA:O	1:M:1258:GLU:HB2	2.04	0.57
2:N:1096:ARG:HD2	2:N:1097:HIS:ND1	2.19	0.57
10:V:46:ARG:HG2	10:V:46:ARG:NH1	2.18	0.57
1:A:799:GLY:N	1:A:816:PHE:CE1	2.72	0.57
1:A:1021:GLN:CG	1:A:1021:GLN:CA	2.76	0.57
2:B:573:ILE:HG23	2:B:581:GLY:O	2.04	0.57
2:B:1152:MET:CE	2:B:1157:ALA:HA	2.33	0.57
5:E:104:PHE:O	5:E:105:SER:CB	2.52	0.57
8:H:94:TYR:CE2	8:H:96:MET:HG3	2.38	0.57
1:M:225:PHE:CE2	1:M:232:PRO:HA	2.40	0.57
1:M:447:ARG:HB3	1:M:479:TYR:HB3	1.86	0.57
1:M:568:LYS:CB	8:T:95:VAL:H	2.16	0.57
2:N:116:TYR:HA	2:N:156:VAL:O	2.04	0.57
2:N:466:MET:HE3	2:N:467:SER:HA	1.86	0.57
2:N:999:MET:CE	2:N:1011:ILE:HD11	2.35	0.57
3:O:148:ARG:HG2	3:O:149:ASN:N	2.19	0.57
3:O:189:THR:HG22	3:O:190:ASP:N	2.19	0.57
7:S:89:ALA:CB	7:S:103:VAL:HG22	2.34	0.57
7:G:1:MET:HE1	7:G:80:LYS:HE3	1.86	0.57
1:M:856:THR:CG2	1:M:858:ARG:HE	2.17	0.57
1:M:1063:GLY:HA2	1:M:1440:GLY:HA2	1.86	0.57
2:N:216:VAL:HG12	2:N:229:ALA:HB2	1.86	0.57
2:N:290:LEU:N	2:N:290:LEU:CD2	2.67	0.57
3:O:56:VAL:HG11	10:V:59:PHE:CB	2.31	0.57
8:T:15:VAL:HG22	8:T:26:ILE:CD1	2.35	0.57
1:A:105:CYS:O	1:A:114:LEU:HG	2.04	0.57
1:A:1397:THR:HG22	1:A:1401:MET:SD	2.44	0.57
2:B:1129:ARG:HG2	2:B:1131:GLY:N	2.17	0.57
8:H:15:VAL:HG22	8:H:26:ILE:CD1	2.35	0.57
1:M:50:GLU:C	1:M:52:GLY:H	2.06	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:591:ARG:HB3	1:M:606:MET:N	2.20	0.57
1:M:854:ASP:O	1:M:1002:LEU:HD21	2.04	0.57
1:M:901:ASP:HA	1:M:927:GLN:HE22	1.69	0.57
2:N:950:ASP:O	2:N:951:GLN:HB2	2.03	0.57
5:Q:104:PHE:O	5:Q:105:SER:CB	2.52	0.57
1:A:317:GLN:OE1	1:A:321:ARG:HD3	2.05	0.57
1:A:901:ASP:HA	1:A:927:GLN:HE22	1.70	0.57
1:A:1122:LEU:H	1:A:1122:LEU:HD13	1.68	0.57
1:A:1403:CYS:SG	1:A:1412:LEU:HD21	2.43	0.57
2:B:158:ILE:CG2	2:B:446:ILE:HD12	2.32	0.57
2:B:681:LEU:O	2:B:687:ILE:CG2	2.52	0.57
2:B:995:ARG:O	2:B:999:MET:HB2	2.03	0.57
10:J:1:MET:H3	10:J:55:LEU:H	1.52	0.57
1:M:41:MET:CE	1:M:41:MET:H	2.17	0.57
1:M:100:LYS:O	1:M:104:GLU:HG3	2.04	0.57
1:M:576:LYS:HE2	1:M:616:GLY:O	2.03	0.57
8:T:40:LEU:HD22	8:T:122:MET:CE	2.33	0.57
1:A:39:GLU:O	1:A:53:LEU:HB3	2.04	0.57
1:A:63:ARG:HG2	1:A:74:MET:HE1	1.86	0.57
2:B:224:PRO:HG2	2:B:225:ILE:HD12	1.85	0.57
2:B:593:MET:O	2:B:602:ILE:HD11	2.05	0.57
2:B:637:GLU:C	2:B:639:LYS:H	2.07	0.57
12:L:63:THR:HG22	12:L:64:LYS:N	2.18	0.57
1:M:39:GLU:O	1:M:53:LEU:HB3	2.04	0.57
1:M:887:ILE:HG13	1:M:944:LEU:HB2	1.84	0.57
1:M:1037:PHE:O	1:M:1039:LEU:N	2.38	0.57
2:N:593:MET:O	2:N:602:ILE:HD11	2.04	0.57
2:N:634:GLU:O	2:N:636:ASP:N	2.35	0.57
2:N:839:MET:CE	2:N:980:PHE:HB2	2.34	0.57
9:U:64:GLN:O	9:U:66:PRO:HD3	2.04	0.57
1:A:447:ARG:HB3	1:A:479:TYR:HB3	1.86	0.57
1:A:591:ARG:HB3	1:A:606:MET:N	2.20	0.57
2:B:82:ILE:HG13	2:B:116:TYR:O	2.05	0.57
2:B:280:ALA:HA	2:B:323:LEU:HD12	1.86	0.57
2:B:480:THR:HG22	2:B:481:TYR:N	2.19	0.57
2:B:621:THR:O	2:B:622:ASP:O	2.21	0.57
8:H:81:PRO:O	8:H:83:PRO:N	2.38	0.57
1:M:317:GLN:OE1	1:M:321:ARG:HD3	2.05	0.57
1:M:1319:VAL:O	1:M:1319:VAL:HG12	2.05	0.57
2:N:480:THR:HG22	2:N:481:TYR:N	2.19	0.57
2:N:514:LEU:HB3	2:N:626:VAL:CG1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:854:ASP:O	1:A:1002:LEU:HD21	2.04	0.57
1:A:1210:THR:O	1:A:1214:VAL:HG23	2.04	0.57
2:B:586:PRO:HG2	2:B:610:ARG:NH2	2.20	0.57
2:B:846:ILE:HG23	2:B:974:PRO:CG	2.33	0.57
4:D:50:ALA:HB1	4:D:143:ALA:HB2	1.86	0.57
5:E:146:HIS:HB3	5:E:149:VAL:CG2	2.33	0.57
8:H:101:TYR:CE2	8:H:116:SER:HB2	2.40	0.57
1:M:1085:THR:O	1:M:1085:THR:HG22	2.05	0.57
2:N:633:VAL:O	2:N:634:GLU:O	2.23	0.57
2:N:811:TYR:N	2:N:811:TYR:CD1	2.73	0.57
2:N:918:ILE:HD12	2:N:935:ARG:NH1	2.19	0.57
3:O:242:GLN:C	3:O:244:PHE:H	2.08	0.57
1:A:225:PHE:CE2	1:A:232:PRO:HA	2.40	0.57
1:A:318:LYS:O	1:A:319:SER:CB	2.52	0.57
1:A:769:GLN:OE1	1:A:817:HIS:CA	2.49	0.57
1:A:1226:LEU:HD11	1:A:1242:CYS:HB2	1.87	0.57
2:B:831:SER:HB3	2:B:994:TYR:OH	2.05	0.57
2:B:999:MET:CE	2:B:1011:ILE:HD11	2.35	0.57
2:B:1096:ARG:HD2	2:B:1097:HIS:ND1	2.19	0.57
4:D:120:THR:O	4:D:124:VAL:HG23	2.05	0.57
8:H:12:VAL:HG21	8:H:53:ASP:HB2	1.85	0.57
9:I:56:ALA:CB	9:I:89:GLN:HG3	2.35	0.57
2:N:824:ILE:HG12	10:V:47:ARG:HH12	1.69	0.57
2:N:831:SER:HB3	2:N:994:TYR:OH	2.05	0.57
2:N:945:GLU:O	2:N:946:ASN:HB3	2.04	0.57
2:N:995:ARG:O	2:N:999:MET:HB2	2.04	0.57
3:O:257:ASN:O	3:O:261:GLU:N	2.36	0.57
6:R:82:THR:HG22	6:R:84:TYR:N	2.10	0.57
1:A:801:VAL:HG21	1:A:809:LEU:CD2	2.35	0.57
2:B:758:PHE:CE1	2:B:1027:ILE:HG22	2.40	0.57
3:C:242:GLN:C	3:C:244:PHE:H	2.08	0.57
1:M:353:VAL:O	1:M:468:THR:HB	2.04	0.57
1:M:898:TYR:CE2	1:M:1032:ARG:HD2	2.39	0.57
2:N:596:LEU:CD1	2:N:601:ALA:HB3	2.32	0.57
4:P:50:ALA:HB1	4:P:143:ALA:HB2	1.86	0.57
5:Q:146:HIS:HB3	5:Q:149:VAL:CG2	2.33	0.57
8:T:81:PRO:O	8:T:83:PRO:N	2.38	0.57
8:T:94:TYR:HE2	8:T:96:MET:CG	2.18	0.57
1:A:333:LYS:N	1:A:338:ARG:HB3	2.06	0.56
1:A:856:THR:CG2	1:A:858:ARG:HE	2.17	0.56
1:A:1412:LEU:O	1:A:1415:ALA:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:637:GLU:OE2	2:B:639:LYS:HB2	2.04	0.56
2:B:945:GLU:O	2:B:946:ASN:HB3	2.04	0.56
3:C:56:VAL:HG11	10:J:59:PHE:CB	2.30	0.56
1:M:988:ILE:HD11	1:M:1033:ILE:CG1	2.33	0.56
1:M:1210:THR:O	1:M:1214:VAL:HG23	2.05	0.56
1:A:316:LEU:CD2	1:A:322:PRO:HA	2.35	0.56
1:A:317:GLN:HB2	1:A:323:VAL:CG2	2.34	0.56
1:A:710:THR:HB	1:A:713:GLU:CG	2.32	0.56
2:B:882:THR:CG2	2:B:884:ARG:HB2	2.35	0.56
3:C:148:ARG:HG2	3:C:149:ASN:N	2.19	0.56
4:D:53:LEU:CD2	4:D:108:TYR:HE2	2.19	0.56
8:H:98:GLY:HA3	8:H:117:PHE:HA	1.87	0.56
8:H:101:TYR:HE2	8:H:116:SER:HB2	1.70	0.56
11:K:53:TYR:C	11:K:55:ASP:N	2.58	0.56
1:M:443:VAL:CG2	1:M:490:LEU:HD11	2.36	0.56
1:M:788:PHE:HE1	1:M:797:SER:HA	1.69	0.56
2:N:637:GLU:OE2	2:N:639:LYS:HB2	2.04	0.56
2:N:637:GLU:HB2	2:N:641:ASN:O	2.06	0.56
2:N:834:ASN:HB3	2:N:840:ILE:HG13	1.86	0.56
2:N:882:THR:CG2	2:N:884:ARG:HB2	2.35	0.56
2:N:1029:CYS:SG	2:N:1088:GLY:HA3	2.45	0.56
9:U:106:CYS:SG	9:U:108:LYS:HB2	2.45	0.56
1:A:107:CYS:N	1:A:114:LEU:HD21	2.20	0.56
1:A:116:ASP:OD2	1:A:165:ARG:HD2	2.05	0.56
1:A:801:VAL:HA	1:A:813:GLU:CG	2.35	0.56
1:A:911:PRO:N	1:A:917:ALA:HB1	2.19	0.56
1:A:1085:THR:HG22	1:A:1085:THR:O	2.05	0.56
2:B:290:LEU:N	2:B:290:LEU:CD2	2.67	0.56
2:B:811:TYR:N	2:B:811:TYR:CD1	2.73	0.56
2:B:839:MET:CE	2:B:980:PHE:HB2	2.34	0.56
2:B:1029:CYS:SG	2:B:1088:GLY:HA3	2.45	0.56
2:B:1162:VAL:CG1	2:B:1163:CYS:N	2.68	0.56
2:B:1207:LEU:HD13	2:B:1212:ILE:HG21	1.87	0.56
4:D:67:ARG:C	4:D:69:ARG:H	2.08	0.56
5:E:160:LYS:C	5:E:162:GLN:H	2.09	0.56
6:F:93:ILE:HD11	6:F:134:ILE:HD11	1.87	0.56
9:I:64:GLN:O	9:I:66:PRO:HD3	2.04	0.56
9:I:106:CYS:SG	9:I:108:LYS:HB2	2.45	0.56
10:J:10:CYS:SG	10:J:42:ARG:NH2	2.79	0.56
11:K:42:LEU:O	11:K:42:LEU:HD23	2.06	0.56
1:M:107:CYS:N	1:M:114:LEU:HD21	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:200:ARG:CB	1:M:200:ARG:HH11	2.19	0.56
1:M:318:LYS:O	1:M:319:SER:CB	2.52	0.56
1:M:1286:TYR:CG	1:M:1287:MET:N	2.74	0.56
2:N:422:TYR:HA	2:N:425:MET:HE3	1.87	0.56
2:N:776:GLN:O	2:N:1095:LEU:HA	2.05	0.56
2:N:1117:GLN:HG2	2:N:1155:SER:OG	2.05	0.56
4:P:38:GLN:HB2	7:S:5:LYS:NZ	2.19	0.56
4:P:53:LEU:CD2	4:P:108:TYR:HE2	2.18	0.56
10:V:23:ARG:C	10:V:25:LEU:H	2.09	0.56
10:V:52:HIS:CD2	10:V:53:VAL:N	2.73	0.56
1:A:568:LYS:CB	8:H:95:VAL:H	2.16	0.56
1:A:898:TYR:CE2	1:A:1032:ARG:HD2	2.39	0.56
1:A:1257:ALA:O	1:A:1258:GLU:HB2	2.04	0.56
2:B:393:HIS:O	2:B:395:GLY:N	2.39	0.56
2:B:567:HIS:HA	2:B:584:ARG:NH2	2.18	0.56
2:B:637:GLU:HB2	2:B:641:ASN:O	2.06	0.56
2:B:860:MET:CG	2:B:965:LYS:HG2	2.35	0.56
7:G:13:LEU:HD22	7:G:14:HIS:O	2.06	0.56
1:M:105:CYS:O	1:M:114:LEU:HG	2.04	0.56
1:M:316:LEU:CD2	1:M:322:PRO:HA	2.35	0.56
1:M:316:LEU:HD23	1:M:322:PRO:HA	1.86	0.56
1:M:1226:LEU:HD11	1:M:1242:CYS:HB2	1.87	0.56
2:N:860:MET:CG	2:N:965:LYS:HG2	2.35	0.56
11:W:42:LEU:O	11:W:42:LEU:HD23	2.06	0.56
12:X:30:LYS:HG3	12:X:41:SER:CB	2.36	0.56
1:A:776:ILE:HD12	1:A:816:PHE:HA	1.87	0.56
1:A:1448:ILE:HG23	7:G:61:ILE:HD11	1.87	0.56
2:B:834:ASN:HB3	2:B:840:ILE:HG13	1.86	0.56
2:B:1132:GLU:O	2:B:1135:ARG:HB3	2.05	0.56
1:M:911:PRO:N	1:M:917:ALA:HB1	2.20	0.56
2:N:82:ILE:HG13	2:N:116:TYR:O	2.05	0.56
2:N:393:HIS:O	2:N:395:GLY:N	2.39	0.56
2:N:1129:ARG:HG2	2:N:1131:GLY:N	2.17	0.56
3:O:113:VAL:O	3:O:144:LEU:HB2	2.05	0.56
4:P:120:THR:O	4:P:124:VAL:HG23	2.05	0.56
1:A:788:PHE:HZ	1:A:812:GLN:HE21	1.52	0.56
1:A:911:PRO:CB	1:A:917:ALA:HB1	2.22	0.56
1:A:1166:GLU:O	1:A:1168:ASP:N	2.39	0.56
2:B:202:VAL:CG2	2:B:476:LEU:HD13	2.36	0.56
7:G:1:MET:O	7:G:1:MET:SD	2.64	0.56
8:H:94:TYR:HE2	8:H:96:MET:CG	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:52:HIS:CD2	10:J:53:VAL:N	2.73	0.56
12:L:40:PHE:O	12:L:41:SER:CB	2.53	0.56
1:M:858:ARG:CZ	6:R:139:PRO:HG3	2.36	0.56
2:N:758:PHE:CE1	2:N:1027:ILE:HG22	2.40	0.56
2:N:839:MET:HE3	2:N:1010:LEU:HD11	1.86	0.56
2:N:864:LYS:N	2:N:872:GLU:OE1	2.38	0.56
2:N:1207:LEU:HD13	2:N:1212:ILE:HG21	1.87	0.56
7:S:49:LEU:N	7:S:49:LEU:HD23	2.21	0.56
7:S:88:ASP:CB	7:S:144:ARG:HA	2.23	0.56
7:S:145:LEU:CG	7:S:146:LYS:N	2.69	0.56
8:T:101:TYR:HE2	8:T:116:SER:HB2	1.71	0.56
9:U:56:ALA:CB	9:U:89:GLN:HG3	2.35	0.56
10:V:10:CYS:SG	10:V:42:ARG:NH2	2.79	0.56
12:X:40:PHE:O	12:X:41:SER:CB	2.53	0.56
2:B:206:GLN:HE22	2:B:492:ASN:CB	2.15	0.56
2:B:216:VAL:HG12	2:B:229:ALA:HB2	1.86	0.56
1:M:116:ASP:OD2	1:M:165:ARG:HD2	2.05	0.56
1:M:842:LEU:O	1:M:846:LEU:HG	2.06	0.56
1:M:1096:VAL:HG13	1:M:1115:THR:CG2	2.36	0.56
1:M:1316:LEU:HD23	1:M:1341:VAL:CG2	2.34	0.56
2:N:744:HIS:CG	2:N:745:PRO:HD2	2.41	0.56
2:N:892:LYS:O	2:N:899:ILE:HG23	2.05	0.56
4:P:141:GLU:O	4:P:143:ALA:N	2.39	0.56
5:Q:160:LYS:C	5:Q:162:GLN:H	2.09	0.56
8:T:101:TYR:CE2	8:T:116:SER:HB2	2.40	0.56
8:T:142:LEU:HD12	8:T:142:LEU:N	2.20	0.56
1:A:76:GLU:OE2	2:B:1159:ARG:NH1	2.38	0.56
1:A:200:ARG:HH11	1:A:200:ARG:CB	2.19	0.56
1:A:380:THR:OG1	6:F:102:SER:O	2.20	0.56
1:A:443:VAL:CG2	1:A:490:LEU:HD11	2.35	0.56
1:A:493:PRO:HB2	1:A:498:THR:HG22	1.88	0.56
1:A:538:ARG:HD2	8:H:20:TYR:HE1	1.71	0.56
1:A:858:ARG:CZ	6:F:139:PRO:HG3	2.36	0.56
1:A:1215:ALA:CB	1:A:1230:TRP:CZ3	2.89	0.56
1:A:1319:VAL:O	1:A:1319:VAL:HG12	2.05	0.56
2:B:549:ASN:O	2:B:551:LEU:N	2.39	0.56
2:B:634:GLU:O	2:B:636:ASP:N	2.35	0.56
2:B:776:GLN:O	2:B:1095:LEU:HA	2.05	0.56
2:B:892:LYS:O	2:B:899:ILE:HG23	2.05	0.56
2:B:1182:CYS:O	2:B:1182:CYS:SG	2.63	0.56
2:B:1202:LEU:O	2:B:1206:GLU:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:38:GLN:HB2	7:G:5:LYS:NZ	2.20	0.56
7:G:49:LEU:HD21	7:G:77:VAL:HG23	1.87	0.56
8:H:142:LEU:HD12	8:H:142:LEU:N	2.20	0.56
1:M:538:ARG:HD2	8:T:20:TYR:HE1	1.71	0.56
1:M:542:ILE:HG22	1:M:547:VAL:HG23	1.88	0.56
1:M:989:ILE:CG1	1:M:990:HIS:H	2.19	0.56
1:M:1412:LEU:O	1:M:1415:ALA:HB3	2.05	0.56
2:N:549:ASN:O	2:N:551:LEU:N	2.39	0.56
2:N:1162:VAL:CG1	2:N:1163:CYS:N	2.68	0.56
4:P:67:ARG:C	4:P:69:ARG:H	2.08	0.56
10:V:47:ARG:HE	10:V:48:MET:CE	2.19	0.56
1:A:392:TYR:HA	1:A:395:ASN:HD22	1.71	0.56
1:A:842:LEU:O	1:A:846:LEU:HG	2.06	0.56
1:A:989:ILE:CG1	1:A:990:HIS:H	2.18	0.56
2:B:304:GLU:O	2:B:307:LYS:HB2	2.06	0.56
2:B:744:HIS:CG	2:B:745:PRO:HD2	2.41	0.56
2:B:839:MET:HE3	2:B:1010:LEU:HD11	1.86	0.56
9:I:74:GLU:O	9:I:74:GLU:HG3	2.06	0.56
10:J:47:ARG:HE	10:J:48:MET:CE	2.19	0.56
10:J:47:ARG:NE	10:J:48:MET:HE2	2.21	0.56
2:N:101:PRO:HG3	2:N:172:LEU:HD21	1.88	0.56
2:N:202:VAL:CG2	2:N:476:LEU:HD13	2.36	0.56
2:N:304:GLU:O	2:N:307:LYS:HB2	2.06	0.56
2:N:606:VAL:HG13	2:N:620:PHE:O	2.06	0.56
2:N:824:ILE:HG22	2:N:1087:PHE:CE2	2.40	0.56
2:N:882:THR:HG22	2:N:884:ARG:N	2.19	0.56
6:R:93:ILE:HD11	6:R:134:ILE:HD11	1.87	0.56
7:S:119:LEU:HD11	7:S:130:TYR:HB3	1.87	0.56
9:U:74:GLU:HG3	9:U:74:GLU:O	2.06	0.56
1:A:73:GLY:O	1:A:75:ALA:N	2.38	0.56
1:A:459:HIS:CE1	1:A:508:VAL:HG21	2.41	0.56
1:A:547:VAL:HG21	1:A:573:TRP:CE3	2.41	0.56
1:A:770:MET:CG	1:A:771:VAL:N	2.68	0.56
1:A:788:PHE:HE1	1:A:797:SER:HA	1.69	0.56
1:A:790:LYS:HG3	9:I:67:THR:O	2.06	0.56
7:G:89:ALA:CB	7:G:103:VAL:HG22	2.34	0.56
1:M:56:PRO:O	1:M:57:LYS:CG	2.54	0.56
1:M:231:ARG:HG3	1:M:234:TRP:CH2	2.41	0.56
1:M:591:ARG:HH22	1:M:621:LYS:HB3	1.68	0.56
1:M:1339:LEU:CB	1:M:1347:THR:CB	2.83	0.56
2:N:519:GLU:HA	2:N:771:SER:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:1:MET:O	7:S:1:MET:SD	2.64	0.56
7:S:13:LEU:HD22	7:S:14:HIS:O	2.06	0.56
8:T:62:SER:OG	8:T:63:LEU:HG	2.06	0.56
1:A:69:THR:C	1:A:71:GLY:N	2.50	0.55
1:A:107:CYS:HA	1:A:172:GLN:OE1	2.06	0.55
1:A:1084:ASN:HB3	1:A:1086:PHE:CD1	2.41	0.55
1:A:1096:VAL:HG13	1:A:1115:THR:CG2	2.36	0.55
2:B:633:VAL:O	2:B:634:GLU:O	2.23	0.55
2:B:798:TYR:CD1	10:J:4:PRO:HG3	2.40	0.55
4:D:141:GLU:O	4:D:143:ALA:N	2.39	0.55
7:G:49:LEU:N	7:G:49:LEU:HD23	2.21	0.55
12:L:30:LYS:HG3	12:L:41:SER:CB	2.36	0.55
1:M:107:CYS:HA	1:M:172:GLN:OE1	2.06	0.55
1:M:671:ILE:HG23	1:M:806:LEU:CD2	2.36	0.55
1:M:739:LYS:CB	1:M:741:LEU:HD23	2.26	0.55
1:M:790:LYS:HG3	9:U:67:THR:O	2.07	0.55
1:M:941:ARG:HG2	1:M:941:ARG:HH11	1.70	0.55
2:N:190:MET:HE2	2:N:485:LEU:HD23	1.88	0.55
2:N:1132:GLU:O	2:N:1135:ARG:HB3	2.05	0.55
2:N:1182:CYS:O	2:N:1182:CYS:SG	2.63	0.55
8:T:98:GLY:HA3	8:T:117:PHE:HA	1.87	0.55
10:V:47:ARG:NE	10:V:48:MET:HE2	2.22	0.55
11:W:53:TYR:C	11:W:55:ASP:N	2.58	0.55
1:A:281:GLU:HG2	1:A:290:ILE:HD13	1.89	0.55
1:A:336:ARG:CA	1:A:340:ASN:HD22	2.15	0.55
1:A:591:ARG:HG3	1:A:591:ARG:NH1	2.21	0.55
1:A:1286:TYR:CG	1:A:1287:MET:N	2.74	0.55
1:A:1343:GLY:HA3	5:E:183:VAL:HG23	1.89	0.55
2:B:231:ILE:HG23	2:B:231:ILE:O	2.07	0.55
2:B:1079:LYS:HA	3:C:26:LEU:HD21	1.89	0.55
1:M:102:VAL:HG11	1:M:212:PHE:CE2	2.41	0.55
1:M:896:LYS:O	1:M:896:LYS:HG2	2.06	0.55
1:M:956:TRP:HB3	1:M:957:PRO:HD2	1.88	0.55
1:M:1148:VAL:HG11	1:M:1209:LEU:HD12	1.89	0.55
2:N:12:ILE:HD11	2:N:647:ILE:C	2.27	0.55
2:N:586:PRO:HG2	2:N:610:ARG:NH2	2.20	0.55
3:O:212:PRO:HB3	3:O:213:PRO:HD2	1.89	0.55
7:S:94:VAL:CG1	7:S:94:VAL:CA	2.78	0.55
8:T:12:VAL:CG2	8:T:53:ASP:HB2	2.37	0.55
9:U:106:CYS:O	9:U:107:LYS:CB	2.54	0.55
1:A:239:VAL:CG1	1:A:239:VAL:CA	2.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:667:ILE:HD12	1:A:667:ILE:N	2.22	0.55
1:A:896:LYS:HG2	1:A:896:LYS:O	2.06	0.55
1:A:941:ARG:O	1:A:945:ARG:HG3	2.06	0.55
2:B:606:VAL:HG13	2:B:620:PHE:O	2.06	0.55
2:B:630:LEU:HD21	2:B:742:GLU:OE2	2.05	0.55
2:B:1103:ILE:HG23	2:B:1103:ILE:O	2.06	0.55
2:B:1115:THR:O	2:B:1116:ARG:CB	2.55	0.55
3:C:47:LEU:CB	3:C:158:ILE:HG21	2.20	0.55
7:G:145:LEU:CG	7:G:146:LYS:N	2.69	0.55
8:H:62:SER:OG	8:H:63:LEU:HG	2.07	0.55
9:I:106:CYS:O	9:I:107:LYS:CB	2.54	0.55
11:K:49:GLU:HG3	11:K:94:ILE:CG1	2.34	0.55
1:M:392:TYR:HA	1:M:395:ASN:HD22	1.71	0.55
1:M:459:HIS:CE1	1:M:508:VAL:HG21	2.41	0.55
1:M:568:LYS:HB2	1:M:569:PRO:HD2	1.85	0.55
1:M:770:MET:CG	1:M:771:VAL:N	2.68	0.55
1:M:790:LYS:HE3	9:U:67:THR:OG1	2.07	0.55
1:M:941:ARG:O	1:M:945:ARG:HG3	2.06	0.55
2:N:630:LEU:HD21	2:N:742:GLU:OE2	2.05	0.55
2:N:637:GLU:C	2:N:639:LYS:H	2.07	0.55
2:N:999:MET:HE2	2:N:1011:ILE:HD11	1.86	0.55
2:N:1079:LYS:HA	3:O:26:LEU:HD21	1.88	0.55
3:O:47:LEU:CB	3:O:158:ILE:HG21	2.21	0.55
1:A:130:ASP:O	1:A:132:LYS:N	2.40	0.55
1:A:941:ARG:HG2	1:A:941:ARG:HH11	1.70	0.55
2:B:785:TYR:HA	2:B:788:ARG:HG3	1.89	0.55
3:C:213:PRO:O	3:C:214:LYS:HB2	2.06	0.55
4:D:54:SER:HB3	4:D:113:ALA:HB1	1.89	0.55
1:M:73:GLY:O	1:M:75:ALA:N	2.38	0.55
1:M:90:VAL:HG12	1:M:91:PHE:N	2.22	0.55
1:M:406:VAL:HG12	1:M:414:ILE:HD12	1.88	0.55
1:M:1215:ALA:CB	1:M:1230:TRP:CZ3	2.89	0.55
1:M:1343:GLY:HA3	5:Q:183:VAL:HG23	1.89	0.55
1:M:1441:THR:CB	2:N:1144:ALA:CB	2.80	0.55
2:N:860:MET:HG3	2:N:965:LYS:HG2	1.88	0.55
3:O:213:PRO:O	3:O:214:LYS:HB2	2.06	0.55
1:A:447:ARG:CD	1:A:481:ALA:HB2	2.35	0.55
1:A:565:ALA:HB2	1:A:577:GLN:CD	2.26	0.55
1:A:790:LYS:HE3	9:I:67:THR:OG1	2.07	0.55
1:A:956:TRP:HB3	1:A:957:PRO:HD2	1.88	0.55
1:A:1148:VAL:HG11	1:A:1209:LEU:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:422:TYR:HA	2:B:425:MET:HE3	1.88	0.55
10:J:23:ARG:C	10:J:25:LEU:H	2.09	0.55
1:M:76:GLU:OE2	2:N:1159:ARG:NH1	2.38	0.55
1:M:591:ARG:HG3	1:M:591:ARG:NH1	2.21	0.55
1:M:766:VAL:HG21	1:M:809:LEU:HD11	1.89	0.55
2:N:206:GLN:HE22	2:N:492:ASN:CB	2.15	0.55
4:P:108:TYR:C	4:P:108:TYR:CD2	2.80	0.55
12:X:63:THR:HG22	12:X:64:LYS:H	1.71	0.55
1:A:90:VAL:HG12	1:A:298:GLN:NE2	2.22	0.55
2:B:101:PRO:HG3	2:B:172:LEU:HD21	1.88	0.55
2:B:824:ILE:HG22	2:B:1087:PHE:CE2	2.40	0.55
3:C:212:PRO:HB3	3:C:213:PRO:HD2	1.89	0.55
5:E:134:PHE:HD2	5:E:139:LEU:HD21	1.72	0.55
1:M:256:THR:OG1	2:N:918:ILE:HG21	2.03	0.55
1:M:281:GLU:HG2	1:M:290:ILE:HD13	1.88	0.55
1:M:472:ASN:OD1	1:M:473:LEU:N	2.40	0.55
1:M:504:GLN:HE21	6:R:90:ARG:NH2	1.87	0.55
1:M:799:GLY:CA	1:M:816:PHE:CD1	2.84	0.55
1:M:1166:GLU:O	1:M:1168:ASP:N	2.39	0.55
2:N:12:ILE:CG2	2:N:652:ILE:HD11	2.36	0.55
2:N:1202:LEU:O	2:N:1206:GLU:HG3	2.05	0.55
1:A:472:ASN:OD1	1:A:473:LEU:N	2.40	0.55
1:A:1239:ILE:CG2	1:A:1240:ILE:N	2.70	0.55
2:B:466:MET:CE	2:B:467:SER:HA	2.37	0.55
2:B:519:GLU:HA	2:B:771:SER:HB3	1.88	0.55
2:B:882:THR:HG22	2:B:884:ARG:N	2.19	0.55
2:B:999:MET:HE2	2:B:1011:ILE:HD11	1.87	0.55
1:M:130:ASP:O	1:M:132:LYS:N	2.40	0.55
1:M:547:VAL:HG21	1:M:573:TRP:CE3	2.41	0.55
1:M:710:THR:HB	1:M:713:GLU:CG	2.32	0.55
2:N:458:ASN:HD22	2:N:458:ASN:N	2.03	0.55
2:N:882:THR:HG21	2:N:935:ARG:HA	1.87	0.55
2:N:1021:MET:O	2:N:1023:VAL:HG23	2.07	0.55
2:N:1115:THR:O	2:N:1116:ARG:CB	2.55	0.55
7:S:49:LEU:HD21	7:S:77:VAL:HG23	1.88	0.55
11:W:49:GLU:HG3	11:W:94:ILE:CG1	2.34	0.55
1:A:90:VAL:HG12	1:A:91:PHE:N	2.21	0.55
1:A:1316:LEU:HD23	1:A:1341:VAL:CG2	2.34	0.55
1:A:1453:LEU:HD21	7:G:18:PHE:CA	2.36	0.55
2:B:1021:MET:O	2:B:1023:VAL:HG23	2.07	0.55
2:B:1166:CYS:HB3	4:D:15:ALA:CA	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:113:VAL:O	3:C:144:LEU:HB2	2.06	0.55
3:C:161:LYS:O	3:C:170:TRP:NE1	2.40	0.55
1:M:90:VAL:HG12	1:M:298:GLN:NE2	2.22	0.55
1:M:565:ALA:HB2	1:M:577:GLN:CD	2.26	0.55
2:N:878:THR:O	2:N:879:ARG:C	2.45	0.55
2:N:1151:LEU:N	2:N:1151:LEU:CD1	2.70	0.55
3:O:167:HIS:CD2	3:O:168:ALA:N	2.75	0.55
9:U:65:ASP:HB3	9:U:68:LEU:HD12	1.89	0.55
1:A:231:ARG:HG3	1:A:234:TRP:CH2	2.41	0.55
1:A:476:THR:CG2	1:A:477:SER:N	2.70	0.55
1:A:858:ARG:HA	1:A:865:ILE:HD12	1.89	0.55
1:A:859:ASN:ND2	1:A:859:ASN:C	2.60	0.55
1:A:1450:GLU:HG3	7:G:22:MET:HG2	1.89	0.55
3:C:115:SER:CB	3:C:142:ILE:CG1	2.84	0.55
3:C:167:HIS:CD2	3:C:168:ALA:N	2.75	0.55
5:E:16:ARG:HG3	5:E:16:ARG:HH11	1.72	0.55
9:I:65:ASP:HB3	9:I:68:LEU:HD12	1.89	0.55
1:M:590:GLN:HG2	1:M:607:LEU:HD13	1.87	0.55
1:M:1344:ILE:HD12	1:M:1382:GLY:O	2.06	0.55
2:N:51:TRP:CG	2:N:51:TRP:CA	2.85	0.55
2:N:785:TYR:HA	2:N:788:ARG:HG3	1.89	0.55
2:N:798:TYR:CD1	10:V:4:PRO:HG3	2.39	0.55
3:O:97:VAL:C	3:O:98:LEU:HD23	2.26	0.55
4:P:54:SER:HB3	4:P:113:ALA:HB1	1.89	0.55
5:Q:134:PHE:HD2	5:Q:139:LEU:HD21	1.72	0.55
1:A:56:PRO:O	1:A:57:LYS:CG	2.54	0.55
1:A:102:VAL:HG11	1:A:212:PHE:CE2	2.41	0.55
1:A:406:VAL:HG12	1:A:414:ILE:HD12	1.88	0.55
1:A:590:GLN:HG2	1:A:607:LEU:HD13	1.87	0.55
1:A:591:ARG:HH22	1:A:621:LYS:HB3	1.68	0.55
1:A:786:PRO:HB2	2:B:700:ILE:HD12	1.88	0.55
1:A:1006:ASN:ND2	5:E:166:ARG:CD	2.67	0.55
2:B:871:VAL:HG12	2:B:872:GLU:N	2.22	0.55
9:I:5:ARG:HD3	9:I:36:GLU:OE2	2.06	0.55
1:M:12:ARG:HG3	2:N:1192:TYR:HD2	1.72	0.55
1:M:333:LYS:O	1:M:334:GLU:CB	2.52	0.55
1:M:858:ARG:HA	1:M:865:ILE:HD12	1.89	0.55
2:N:466:MET:CE	2:N:467:SER:HA	2.37	0.55
2:N:1004:GLU:HB2	2:N:1006:ILE:CG1	2.35	0.55
5:Q:16:ARG:HG3	5:Q:16:ARG:HH11	1.72	0.55
9:U:5:ARG:HD3	9:U:36:GLU:OE2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:ILE:HB	1:A:41:MET:HE2	1.89	0.54
1:A:148:CYS:O	1:A:169:GLY:HA2	2.07	0.54
1:A:1122:LEU:CD1	1:A:1122:LEU:N	2.69	0.54
1:A:1439:MET:O	1:A:1440:GLY:C	2.46	0.54
2:B:12:ILE:CG2	2:B:652:ILE:HD11	2.36	0.54
2:B:279:ARG:HA	2:B:283:VAL:O	2.07	0.54
2:B:828:ALA:O	2:B:834:ASN:ND2	2.40	0.54
1:M:402:GLY:C	1:M:436:HIS:CD2	2.80	0.54
1:M:493:PRO:HB2	1:M:498:THR:HG22	1.88	0.54
1:M:667:ILE:HD12	1:M:667:ILE:N	2.22	0.54
1:M:1142:TYR:CG	1:M:1280:PRO:HA	2.42	0.54
1:M:1268:ALA:C	1:M:1270:MET:N	2.61	0.54
1:M:1427:VAL:O	1:M:1431:VAL:HG23	2.08	0.54
2:N:231:ILE:O	2:N:231:ILE:HG23	2.07	0.54
2:N:821:GLN:NE2	2:N:851:PHE:H	1.98	0.54
1:A:739:LYS:H	1:A:739:LYS:CD	2.06	0.54
1:A:1335:PHE:N	1:A:1335:PHE:CD2	2.76	0.54
1:A:1337:GLU:O	1:A:1340:SER:N	2.41	0.54
2:B:1168:LEU:HD13	2:B:1208:MET:CE	2.37	0.54
2:B:1169:MET:HE2	2:B:1204:PHE:HB2	1.89	0.54
1:M:256:THR:N	2:N:935:ARG:HH12	2.01	0.54
1:M:822:ARG:CD	2:N:505:ARG:O	2.55	0.54
1:M:843:VAL:C	1:M:845:ALA:H	2.10	0.54
1:M:1281:GLY:O	1:M:1313:GLY:HA3	2.07	0.54
1:M:1393:ASN:CG	1:M:1405:PHE:HD2	2.09	0.54
2:N:828:ALA:O	2:N:834:ASN:ND2	2.40	0.54
3:O:161:LYS:O	3:O:170:TRP:NE1	2.40	0.54
4:P:114:ARG:C	4:P:115:PHE:CD1	2.81	0.54
7:S:132:SER:HB3	7:S:135:GLU:H	1.72	0.54
1:A:340:ASN:O	2:B:1117:GLN:NE2	2.37	0.54
1:A:542:ILE:HG22	1:A:547:VAL:HG23	1.88	0.54
1:A:549:ASN:HA	11:K:60:ALA:HB1	1.90	0.54
1:A:656:TYR:O	1:A:659:LEU:HB3	2.07	0.54
1:A:671:ILE:HG23	1:A:806:LEU:CD2	2.36	0.54
1:A:1075:GLY:O	1:A:1078:ALA:HB3	2.07	0.54
1:A:1232:GLU:O	1:A:1234:ASN:N	2.41	0.54
2:B:12:ILE:HD11	2:B:647:ILE:C	2.27	0.54
2:B:12:ILE:HD13	2:B:647:ILE:CG1	2.35	0.54
2:B:860:MET:HG3	2:B:965:LYS:HG2	1.89	0.54
3:C:97:VAL:C	3:C:98:LEU:HD23	2.26	0.54
4:D:114:ARG:C	4:D:115:PHE:CD1	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:12:VAL:CG2	8:H:53:ASP:HB2	2.37	0.54
1:M:786:PRO:HB2	2:N:700:ILE:HD12	1.88	0.54
1:M:934:TYR:O	1:M:938:VAL:HG23	2.06	0.54
2:N:184:LYS:CD	2:N:787:VAL:HG11	2.38	0.54
2:N:279:ARG:HA	2:N:283:VAL:O	2.07	0.54
2:N:1165:ILE:HG23	4:P:13:ARG:C	2.18	0.54
5:Q:174:LEU:HD23	5:Q:175:PRO:CD	2.28	0.54
10:V:13:VAL:O	10:V:14:VAL:CG2	2.55	0.54
1:A:402:GLY:C	1:A:436:HIS:CD2	2.81	0.54
1:A:561:VAL:CG2	8:H:77:SER:HB2	2.38	0.54
1:A:1118:LEU:N	1:A:1311:THR:CG2	2.64	0.54
1:A:1344:ILE:HD12	1:A:1382:GLY:O	2.06	0.54
2:B:847:ASP:HB3	3:C:167:HIS:CD2	2.43	0.54
7:G:132:SER:HB3	7:G:135:GLU:H	1.73	0.54
1:M:561:VAL:CG2	8:T:77:SER:HB2	2.38	0.54
1:M:1268:ALA:C	1:M:1270:MET:H	2.11	0.54
1:M:1337:GLU:O	1:M:1340:SER:N	2.40	0.54
1:M:1371:MET:H	1:M:1371:MET:HE3	1.73	0.54
1:M:1393:ASN:OD1	1:M:1405:PHE:CD2	2.58	0.54
2:N:92:ALA:O	2:N:93:ASP:CB	2.55	0.54
2:N:381:CYS:C	2:N:383:LEU:H	2.10	0.54
2:N:847:ASP:HB3	3:O:167:HIS:CD2	2.43	0.54
11:W:91:CYS:O	11:W:94:ILE:HB	2.08	0.54
1:A:244:PRO:O	1:A:247:VAL:HB	2.07	0.54
1:A:373:LYS:HA	1:A:436:HIS:CE1	2.42	0.54
1:A:769:GLN:CG	1:A:817:HIS:CA	2.72	0.54
2:B:166:ARG:HG3	2:B:166:ARG:NH1	2.22	0.54
2:B:286:ASP:H	9:I:12:ASN:ND2	2.05	0.54
2:B:381:CYS:C	2:B:383:LEU:H	2.10	0.54
2:B:458:ASN:HD22	2:B:458:ASN:N	2.03	0.54
2:B:821:GLN:NE2	2:B:851:PHE:H	1.98	0.54
3:C:38:ALA:CA	3:C:164:ALA:HB3	2.35	0.54
3:C:252:GLN:CG	11:K:95:ILE:HG23	2.38	0.54
5:E:21:MET:HE3	5:E:25:ARG:HE	1.71	0.54
10:J:13:VAL:O	10:J:14:VAL:CG2	2.55	0.54
1:M:148:CYS:O	1:M:169:GLY:HA2	2.07	0.54
1:M:1075:GLY:O	1:M:1078:ALA:HB3	2.07	0.54
2:N:1168:LEU:HD13	2:N:1208:MET:CE	2.37	0.54
7:S:1:MET:HE1	7:S:80:LYS:H	1.72	0.54
8:T:80:PRO:CB	8:T:81:PRO:CD	2.85	0.54
8:T:88:LEU:C	8:T:90:ASP:N	2.58	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:27:GLU:C	10:V:29:LYS:H	2.10	0.54
1:A:739:LYS:CB	1:A:741:LEU:HD23	2.26	0.54
1:A:843:VAL:C	1:A:845:ALA:H	2.10	0.54
1:A:1281:GLY:O	1:A:1313:GLY:HA3	2.07	0.54
2:B:519:GLU:CD	2:B:752:ALA:HB2	2.27	0.54
2:B:573:ILE:CG2	2:B:581:GLY:O	2.56	0.54
2:B:1151:LEU:N	2:B:1151:LEU:CD1	2.70	0.54
3:C:114:TYR:HB3	3:C:140:GLN:O	2.08	0.54
8:H:61:ASN:HB3	8:H:138:ASN:HB3	1.90	0.54
11:K:31:ILE:CG1	11:K:32:ILE:N	2.71	0.54
12:L:60:LYS:O	12:L:61:ALA:O	2.26	0.54
1:M:822:ARG:HG2	2:N:507:LEU:N	2.22	0.54
1:M:897:ARG:HD3	1:M:898:TYR:CE1	2.43	0.54
1:M:1239:ILE:CG2	1:M:1240:ILE:N	2.70	0.54
2:N:797:TYR:HE1	2:N:854:LEU:HD23	1.73	0.54
2:N:981:ALA:HB2	2:N:987:LYS:HA	1.90	0.54
3:O:38:ALA:CA	3:O:164:ALA:HB3	2.35	0.54
3:O:114:TYR:HB3	3:O:140:GLN:O	2.08	0.54
7:S:114:LEU:HB3	7:S:162:SER:HB3	1.89	0.54
1:A:12:ARG:HG3	2:B:1192:TYR:HD2	1.72	0.54
1:A:934:TYR:O	1:A:938:VAL:HG23	2.06	0.54
1:A:1268:ALA:C	1:A:1270:MET:H	2.11	0.54
2:B:54:PRO:CG	2:B:55:ARG:H	2.21	0.54
2:B:550:PHE:O	2:B:550:PHE:HD2	1.90	0.54
2:B:797:TYR:HE1	2:B:854:LEU:HD23	1.73	0.54
3:C:96:VAL:CG1	3:C:98:LEU:HD21	2.38	0.54
3:C:251:LEU:HD11	11:K:45:LEU:CD2	2.38	0.54
4:D:4:SER:O	4:D:5:THR:CB	2.56	0.54
8:H:58:THR:HG22	8:H:59:LEU:H	1.72	0.54
8:H:80:PRO:CB	8:H:81:PRO:CD	2.85	0.54
1:M:373:LYS:HA	1:M:436:HIS:CE1	2.42	0.54
1:M:496:GLU:CD	6:R:117:PRO:HG2	2.27	0.54
1:M:1076:GLU:C	1:M:1078:ALA:H	2.10	0.54
1:M:1122:LEU:CD1	1:M:1122:LEU:N	2.70	0.54
2:N:33:GLN:HB2	2:N:401:LEU:HD21	1.89	0.54
2:N:54:PRO:CG	2:N:55:ARG:H	2.21	0.54
2:N:1103:ILE:HG23	2:N:1103:ILE:O	2.06	0.54
3:O:96:VAL:CG1	3:O:98:LEU:HD21	2.38	0.54
7:S:74:TYR:H	7:S:74:TYR:HD2	1.56	0.54
7:S:153:ASP:HB3	7:S:156:GLU:O	2.08	0.54
1:A:1076:GLU:C	1:A:1078:ALA:H	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1268:ALA:C	1:A:1270:MET:N	2.61	0.54
1:A:1450:GLU:HG3	7:G:22:MET:CB	2.38	0.54
2:B:33:GLN:HB2	2:B:401:LEU:HD21	1.89	0.54
2:B:612:ILE:C	2:B:614:GLU:H	2.12	0.54
2:B:878:THR:O	2:B:879:ARG:C	2.45	0.54
2:B:981:ALA:HB2	2:B:987:LYS:HA	1.90	0.54
2:B:1099:VAL:O	2:B:1101:ASP:N	2.41	0.54
7:G:119:LEU:HD11	7:G:130:TYR:HB3	1.87	0.54
11:K:91:CYS:O	11:K:94:ILE:HB	2.08	0.54
1:M:312:GLN:O	1:M:313:PRO:C	2.46	0.54
1:M:1287:MET:HG2	1:M:1309:LEU:CD2	2.38	0.54
1:M:1439:MET:O	1:M:1440:GLY:C	2.46	0.54
2:N:244:THR:HG22	2:N:245:MET:N	2.23	0.54
2:N:458:ASN:N	2:N:458:ASN:ND2	2.55	0.54
3:O:114:TYR:CD2	3:O:140:GLN:HB2	2.43	0.54
3:O:175:ALA:HB3	10:V:42:ARG:HH22	1.69	0.54
4:P:38:GLN:HB2	7:S:5:LYS:HZ1	1.73	0.54
4:P:65:LYS:C	4:P:67:ARG:H	2.11	0.54
8:T:61:ASN:HB3	8:T:138:ASN:HB3	1.90	0.54
10:V:1:MET:H3	10:V:55:LEU:H	1.53	0.54
11:W:29:ASN:O	11:W:76:GLN:HG3	2.07	0.54
1:A:361:GLU:HB2	1:A:364:GLN:HG3	1.89	0.54
1:A:801:VAL:HG13	1:A:809:LEU:CG	2.34	0.54
2:B:157:HIS:C	2:B:158:ILE:HG13	2.28	0.54
2:B:458:ASN:N	2:B:458:ASN:ND2	2.56	0.54
2:B:575:VAL:O	2:B:575:VAL:HG12	2.08	0.54
2:B:704:PRO:HG2	2:B:705:GLU:H	1.72	0.54
2:B:1156:ASP:O	2:B:1157:ALA:HB3	2.07	0.54
4:D:53:LEU:H	4:D:147:SER:HB3	1.73	0.54
4:D:108:TYR:CD2	4:D:108:TYR:C	2.80	0.54
9:I:32:CYS:SG	9:I:33:ASP:N	2.81	0.54
11:K:29:ASN:O	11:K:76:GLN:HG3	2.08	0.54
11:K:65:HIS:HD2	11:K:67:LEU:H	1.54	0.54
1:M:400:HIS:CB	1:M:401:PRO:HD3	2.36	0.54
1:M:447:ARG:CD	1:M:481:ALA:HB2	2.35	0.54
1:M:656:TYR:O	1:M:659:LEU:HB3	2.07	0.54
1:M:1118:LEU:N	1:M:1311:THR:CG2	2.64	0.54
2:N:567:HIS:HA	2:N:584:ARG:NH2	2.18	0.54
2:N:770:GLN:CD	2:N:983:ARG:HA	2.28	0.54
2:N:1099:VAL:O	2:N:1101:ASP:N	2.41	0.54
4:P:4:SER:O	4:P:5:THR:CB	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:77:VAL:O	7:S:77:VAL:HG12	2.07	0.54
11:W:31:ILE:CG1	11:W:32:ILE:N	2.71	0.54
1:A:11:LEU:HD12	1:A:12:ARG:N	2.23	0.54
2:B:184:LYS:CD	2:B:787:VAL:HG11	2.38	0.54
2:B:387:ASP:CG	9:I:91:ARG:CB	2.74	0.54
2:B:864:LYS:N	2:B:872:GLU:OE1	2.38	0.54
5:E:77:LEU:HA	5:E:106:THR:HB	1.90	0.54
7:G:77:VAL:O	7:G:77:VAL:HG12	2.07	0.54
10:J:27:GLU:C	10:J:29:LYS:H	2.10	0.54
12:L:63:THR:HG22	12:L:64:LYS:H	1.71	0.54
1:M:344:LYS:HE3	2:N:1151:LEU:CA	2.38	0.54
1:M:370:SER:HB3	11:W:2:ASN:HD21	1.72	0.54
1:M:476:THR:CG2	1:M:477:SER:N	2.70	0.54
1:M:538:ARG:NH2	8:T:25:ARG:HH21	2.06	0.54
2:N:871:VAL:HG12	2:N:872:GLU:N	2.22	0.54
3:O:252:GLN:CG	11:W:95:ILE:HG23	2.38	0.54
5:Q:156:SER:C	5:Q:158:GLY:N	2.61	0.54
8:T:58:THR:HG22	8:T:59:LEU:H	1.72	0.54
1:A:538:ARG:NH2	8:H:25:ARG:HH21	2.06	0.53
1:A:897:ARG:HD3	1:A:898:TYR:CE1	2.43	0.53
1:A:1222:PHE:O	1:A:1223:SER:HB2	2.08	0.53
1:A:1427:VAL:O	1:A:1431:VAL:HG23	2.08	0.53
5:E:123:ILE:HA	5:E:131:ILE:HD12	1.91	0.53
7:G:74:TYR:H	7:G:74:TYR:HD2	1.56	0.53
1:M:336:ARG:CA	1:M:340:ASN:HD22	2.15	0.53
1:M:546:GLN:HG2	1:M:550:MET:CE	2.39	0.53
1:M:1232:GLU:O	1:M:1234:ASN:N	2.40	0.53
1:M:1379:THR:HG23	1:M:1380:SER:N	2.24	0.53
2:N:573:ILE:CG2	2:N:581:GLY:O	2.56	0.53
9:U:106:CYS:O	9:U:107:LYS:HB2	2.09	0.53
12:X:60:LYS:O	12:X:61:ALA:O	2.26	0.53
2:B:770:GLN:CD	2:B:983:ARG:HA	2.29	0.53
4:D:7:THR:CB	7:G:42:PHE:HE2	2.21	0.53
9:I:106:CYS:O	9:I:107:LYS:HB2	2.08	0.53
1:M:549:ASN:HA	11:W:60:ALA:HB1	1.90	0.53
1:M:776:ILE:CG1	1:M:816:PHE:HB3	2.37	0.53
1:M:1163:THR:HG22	1:M:1164:VAL:H	1.72	0.53
1:M:1343:GLY:O	1:M:1345:GLU:N	2.41	0.53
2:N:286:ASP:H	9:U:12:ASN:ND2	2.05	0.53
2:N:612:ILE:C	2:N:614:GLU:H	2.12	0.53
2:N:975:GLN:O	2:N:977:GLY:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1152:MET:HE3	2:N:1157:ALA:HA	1.89	0.53
2:N:1169:MET:HE2	2:N:1204:PHE:HB2	1.90	0.53
1:A:312:GLN:O	1:A:313:PRO:C	2.46	0.53
1:A:370:SER:HB3	11:K:2:ASN:HD21	1.72	0.53
1:A:811:PRO:HB3	2:B:512:TRP:HH2	1.73	0.53
1:A:1376:ASP:HA	1:A:1379:THR:CG2	2.38	0.53
2:B:201:LYS:HA	2:B:474:GLN:O	2.09	0.53
2:B:462:GLN:O	2:B:463:LYS:O	2.27	0.53
1:M:239:VAL:CG2	1:M:239:VAL:CA	2.79	0.53
1:M:244:PRO:O	1:M:247:VAL:HB	2.07	0.53
1:M:361:GLU:HB2	1:M:364:GLN:HG3	1.89	0.53
1:M:448:GLN:HA	1:M:449:PRO:C	2.28	0.53
1:M:988:ILE:HG22	1:M:989:ILE:N	2.23	0.53
1:M:1335:PHE:HD2	1:M:1335:PHE:N	2.07	0.53
2:N:12:ILE:HD13	2:N:647:ILE:CG1	2.34	0.53
3:O:148:ARG:CG	3:O:149:ASN:N	2.71	0.53
3:O:251:LEU:HD11	11:W:45:LEU:CD2	2.38	0.53
1:A:406:VAL:CG1	1:A:414:ILE:HD12	2.39	0.53
1:A:1335:PHE:N	1:A:1335:PHE:HD2	2.06	0.53
2:B:37:SER:O	2:B:403:GLY:HA3	2.09	0.53
2:B:92:ALA:O	2:B:93:ASP:CB	2.56	0.53
2:B:745:PRO:C	2:B:747:MET:H	2.12	0.53
3:C:114:TYR:CG	3:C:140:GLN:HB2	2.44	0.53
7:G:114:LEU:HB3	7:G:162:SER:HB3	1.89	0.53
8:H:88:LEU:C	8:H:90:ASP:N	2.58	0.53
1:M:11:LEU:HD12	1:M:12:ARG:N	2.23	0.53
1:M:267:LEU:CD2	1:M:304:TYR:CE1	2.91	0.53
1:M:406:VAL:CG1	1:M:414:ILE:HD12	2.39	0.53
1:M:715:PHE:O	1:M:719:VAL:HG23	2.08	0.53
1:M:1222:PHE:O	1:M:1223:SER:HB2	2.08	0.53
1:M:1376:ASP:HA	1:M:1379:THR:CG2	2.38	0.53
2:N:462:GLN:O	2:N:463:LYS:O	2.27	0.53
2:N:575:VAL:O	2:N:575:VAL:HG12	2.08	0.53
2:N:858:SER:HA	2:N:966:VAL:O	2.09	0.53
2:N:1156:ASP:O	2:N:1157:ALA:HB3	2.07	0.53
2:N:1165:ILE:HG12	4:P:13:ARG:CB	2.38	0.53
2:N:1180:PHE:HB3	2:N:1191:ILE:CD1	2.32	0.53
10:V:52:HIS:HD2	10:V:53:VAL:N	2.06	0.53
1:A:267:LEU:CD2	1:A:304:TYR:CE1	2.91	0.53
1:A:344:LYS:HE3	2:B:1151:LEU:CA	2.38	0.53
2:B:609:ILE:HD13	2:B:618:LYS:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:955:THR:HG22	2:B:956:THR:O	2.09	0.53
2:B:1180:PHE:HB3	2:B:1191:ILE:CD1	2.33	0.53
5:E:104:PHE:O	5:E:105:SER:HB2	2.09	0.53
1:M:43:GLU:HB2	1:M:46:GLN:HB2	1.90	0.53
1:M:983:LEU:HD12	1:M:1034:LEU:HD21	1.90	0.53
1:M:1194:LEU:HG	1:M:1195:LEU:N	2.23	0.53
2:N:166:ARG:HG3	2:N:166:ARG:NH1	2.22	0.53
2:N:479:TYR:CE1	2:N:1096:ARG:NH2	2.77	0.53
2:N:704:PRO:HG2	2:N:705:GLU:H	1.72	0.53
5:Q:77:LEU:HA	5:Q:106:THR:HB	1.90	0.53
1:A:114:LEU:O	1:A:115:LEU:HG	2.09	0.53
1:A:546:GLN:HG2	1:A:550:MET:CE	2.39	0.53
1:A:568:LYS:HB2	1:A:569:PRO:HD2	1.85	0.53
1:A:983:LEU:HD12	1:A:1034:LEU:HD21	1.90	0.53
1:A:1076:GLU:HB3	1:A:1077:PRO:CD	2.39	0.53
1:A:1287:MET:HG2	1:A:1309:LEU:CD2	2.38	0.53
1:A:1339:LEU:CB	1:A:1347:THR:CB	2.83	0.53
2:B:244:THR:HG22	2:B:245:MET:N	2.23	0.53
2:B:318:ASP:OD2	2:B:320:GLU:HB2	2.09	0.53
2:B:392:ASP:OD1	2:B:503:LYS:HG3	2.08	0.53
2:B:630:LEU:HD22	2:B:742:GLU:HA	1.90	0.53
2:B:1004:GLU:HB2	2:B:1006:ILE:CG1	2.35	0.53
1:M:524:ILE:CG2	1:M:528:THR:HB	2.38	0.53
2:N:550:PHE:HD2	2:N:550:PHE:O	1.91	0.53
2:N:745:PRO:C	2:N:747:MET:H	2.12	0.53
2:N:1010:LEU:CD2	2:N:1092:TYR:CE1	2.92	0.53
5:Q:104:PHE:O	5:Q:105:SER:HB2	2.09	0.53
1:A:578:LEU:O	1:A:581:ILE:CG2	2.35	0.53
1:A:712:ARG:O	1:A:715:PHE:HB3	2.09	0.53
1:A:715:PHE:O	1:A:719:VAL:HG23	2.07	0.53
1:A:771:VAL:CG2	1:A:819:MET:O	2.57	0.53
1:A:787:HIS:HD2	2:B:700:ILE:HB	1.71	0.53
1:A:1343:GLY:O	1:A:1345:GLU:N	2.41	0.53
1:A:1379:THR:HG23	1:A:1380:SER:N	2.24	0.53
3:C:114:TYR:CD2	3:C:140:GLN:HB2	2.43	0.53
7:G:14:HIS:HD2	7:G:16:SER:HB3	1.70	0.53
7:G:15:PRO:HA	7:G:18:PHE:CD1	2.44	0.53
7:G:153:ASP:HB3	7:G:156:GLU:O	2.08	0.53
1:M:203:LEU:CG	1:M:207:GLU:CB	2.87	0.53
1:M:316:LEU:HD22	1:M:320:GLY:O	2.08	0.53
1:M:712:ARG:O	1:M:715:PHE:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:776:ILE:HG13	1:M:816:PHE:CB	2.39	0.53
1:M:1279:ILE:HG21	1:M:1282:ILE:CD1	2.25	0.53
2:N:609:ILE:HD13	2:N:618:LYS:HB2	1.91	0.53
4:P:7:THR:CB	7:S:42:PHE:HE2	2.21	0.53
10:V:51:THR:O	10:V:51:THR:CG2	2.56	0.53
1:A:669:ASP:HB3	1:A:742:ASN:HD21	1.73	0.53
1:A:851:VAL:HG21	1:A:1060:VAL:HG11	1.90	0.53
1:A:988:ILE:HG22	1:A:989:ILE:N	2.23	0.53
1:A:1194:LEU:HG	1:A:1195:LEU:N	2.23	0.53
2:B:782:LEU:HB3	2:B:784:ASN:OD1	2.08	0.53
2:B:821:GLN:HE22	2:B:851:PHE:N	2.00	0.53
5:E:156:SER:C	5:E:158:GLY:N	2.62	0.53
10:J:2:ILE:HG23	10:J:3:ILE:H	1.74	0.53
11:K:12:LEU:HD22	11:K:16:VAL:O	2.08	0.53
1:M:669:ASP:HB3	1:M:742:ASN:HD21	1.74	0.53
1:M:1076:GLU:HB3	1:M:1077:PRO:CD	2.39	0.53
2:N:318:ASP:OD2	2:N:320:GLU:HB2	2.09	0.53
2:N:1167:GLY:O	2:N:1168:LEU:HD23	2.09	0.53
3:O:235:THR:OG1	10:V:13:VAL:HG22	2.09	0.53
7:S:47:THR:O	7:S:76:ALA:HB1	2.09	0.53
9:U:32:CYS:SG	9:U:33:ASP:N	2.81	0.53
11:W:65:HIS:HD2	11:W:67:LEU:H	1.54	0.53
1:A:316:LEU:HD22	1:A:320:GLY:O	2.08	0.53
1:A:448:GLN:HA	1:A:449:PRO:C	2.27	0.53
1:A:1282:ILE:HG23	1:A:1311:THR:OG1	2.08	0.53
1:A:1450:GLU:HG3	7:G:22:MET:HB3	1.88	0.53
2:B:86:ARG:C	2:B:113:SER:HB3	2.30	0.53
2:B:266:PRO:HG3	2:B:352:GLU:HB3	1.91	0.53
2:B:778:MET:HE2	2:B:1094:ARG:HD3	1.91	0.53
1:M:91:PHE:HB3	1:M:96:ILE:HG12	1.91	0.53
1:M:335:GLY:O	1:M:337:LEU:N	2.42	0.53
1:M:1166:GLU:C	1:M:1168:ASP:H	2.12	0.53
2:N:266:PRO:HG3	2:N:352:GLU:HB3	1.91	0.53
2:N:573:ILE:HG23	2:N:581:GLY:O	2.07	0.53
2:N:859:TYR:CZ	2:N:941:LEU:HD12	2.44	0.53
2:N:1169:MET:HE1	2:N:1201:LYS:O	2.09	0.53
7:S:15:PRO:HA	7:S:18:PHE:CD1	2.44	0.53
1:A:41:MET:O	1:A:42:ASP:C	2.47	0.53
1:A:494:GLN:H	1:A:498:THR:HG21	1.74	0.53
1:A:542:ILE:HD13	1:A:550:MET:HE1	1.91	0.53
2:B:858:SER:HA	2:B:966:VAL:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1007:VAL:HG22	2:B:1008:PRO:CD	2.27	0.53
3:C:148:ARG:CG	3:C:149:ASN:N	2.72	0.53
1:M:352:THR:HG21	2:N:1103:ILE:CD1	2.38	0.53
1:M:822:ARG:CG	2:N:506:GLN:HA	2.39	0.53
1:M:1047:VAL:O	1:M:1051:ILE:HG13	2.09	0.53
2:N:519:GLU:CD	2:N:752:ALA:HB2	2.27	0.53
2:N:864:LYS:O	2:N:872:GLU:HG3	2.09	0.53
3:O:114:TYR:CG	3:O:140:GLN:HB2	2.44	0.53
4:P:53:LEU:H	4:P:147:SER:HB3	1.73	0.53
5:Q:123:ILE:HA	5:Q:131:ILE:HD12	1.91	0.53
7:S:88:ASP:OD2	7:S:88:ASP:N	2.42	0.53
1:A:216:SER:O	1:A:219:ASP:HB2	2.09	0.52
1:A:988:ILE:HD11	1:A:1033:ILE:CG1	2.34	0.52
2:B:857:ARG:HG3	2:B:858:SER:N	2.24	0.52
2:B:859:TYR:CZ	2:B:941:LEU:HD12	2.44	0.52
6:F:84:TYR:CE1	6:F:152:ILE:HD12	2.44	0.52
1:M:699:GLN:HE21	9:U:99:LEU:HD21	1.74	0.52
1:M:1006:ASN:ND2	5:Q:166:ARG:CD	2.67	0.52
2:N:955:THR:HG22	2:N:956:THR:O	2.09	0.52
3:O:81:TYR:CE2	3:O:161:LYS:HB3	2.44	0.52
8:T:26:ILE:HG22	8:T:27:ILE:N	2.23	0.52
10:V:27:GLU:O	10:V:29:LYS:N	2.43	0.52
1:A:91:PHE:HB3	1:A:96:ILE:HG12	1.91	0.52
1:A:1016:ALA:C	1:A:1017:THR:CG2	2.77	0.52
2:B:825:VAL:HG12	2:B:826:ALA:N	2.24	0.52
7:G:1:MET:HE1	7:G:80:LYS:H	1.74	0.52
7:G:27:ARG:O	7:G:30:LEU:HB3	2.10	0.52
7:G:89:ALA:CB	7:G:103:VAL:N	2.71	0.52
7:G:94:VAL:CG2	7:G:94:VAL:CA	2.78	0.52
8:H:111:ILE:HG22	8:H:112:LYS:N	2.23	0.52
1:M:445:PHE:HB2	1:M:459:HIS:HD2	1.75	0.52
1:M:1016:ALA:C	1:M:1017:THR:CG2	2.77	0.52
2:N:37:SER:O	2:N:403:GLY:HA3	2.09	0.52
2:N:190:MET:CE	2:N:485:LEU:HD23	2.39	0.52
2:N:825:VAL:HG12	2:N:826:ALA:N	2.24	0.52
2:N:857:ARG:HG3	2:N:858:SER:N	2.25	0.52
5:Q:77:LEU:C	5:Q:77:LEU:HD23	2.30	0.52
7:S:50:ASP:OD1	7:S:50:ASP:O	2.28	0.52
8:T:48:PRO:O	8:T:49:VAL:HG23	2.09	0.52
1:A:203:LEU:CG	1:A:207:GLU:CB	2.87	0.52
1:A:400:HIS:CB	1:A:401:PRO:HD3	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:505:LEU:HD11	6:F:91:ALA:HB1	1.91	0.52
1:A:1040:ASN:CG	1:A:1043:ALA:H	2.12	0.52
2:B:975:GLN:O	2:B:977:GLY:N	2.40	0.52
5:E:77:LEU:HD23	5:E:77:LEU:C	2.29	0.52
10:J:52:HIS:HD2	10:J:53:VAL:N	2.06	0.52
1:M:114:LEU:O	1:M:115:LEU:HG	2.08	0.52
1:M:216:SER:O	1:M:219:ASP:HB2	2.09	0.52
1:M:498:THR:HG23	2:N:1146:PHE:HD1	1.74	0.52
1:M:776:ILE:HG21	1:M:816:PHE:CD2	2.45	0.52
1:M:1040:ASN:CG	1:M:1043:ALA:H	2.12	0.52
1:M:1393:ASN:CG	1:M:1405:PHE:CD2	2.83	0.52
2:N:86:ARG:C	2:N:113:SER:HB3	2.30	0.52
2:N:201:LYS:HA	2:N:474:GLN:O	2.09	0.52
2:N:545:GLU:C	2:N:547:ILE:H	2.13	0.52
2:N:782:LEU:HB3	2:N:784:ASN:OD1	2.08	0.52
2:N:986:GLN:OE1	2:N:986:GLN:HA	2.09	0.52
7:S:1:MET:O	7:S:3:PHE:CD1	2.62	0.52
10:V:2:ILE:HG23	10:V:3:ILE:H	1.74	0.52
1:A:445:PHE:HB2	1:A:459:HIS:HD2	1.75	0.52
1:A:1440:GLY:O	1:A:1442:GLY:N	2.43	0.52
2:B:190:MET:CE	2:B:485:LEU:HD23	2.39	0.52
2:B:472:VAL:O	2:B:473:SER:HB3	2.08	0.52
2:B:551:LEU:HD11	2:B:619:ILE:HD11	1.92	0.52
2:B:702:MET:N	2:B:707:LEU:HD12	2.25	0.52
2:B:1010:LEU:CD2	2:B:1092:TYR:CE1	2.92	0.52
7:G:47:THR:O	7:G:76:ALA:HB1	2.09	0.52
7:G:88:ASP:OD2	7:G:88:ASP:N	2.42	0.52
8:H:26:ILE:HG22	8:H:27:ILE:N	2.23	0.52
10:J:27:GLU:O	10:J:29:LYS:N	2.42	0.52
11:K:84:LYS:O	11:K:87:LEU:HB3	2.10	0.52
1:M:66:LYS:O	1:M:67:CYS:HB2	2.09	0.52
1:M:1016:ALA:C	1:M:1017:THR:HG23	2.29	0.52
2:N:157:HIS:C	2:N:158:ILE:HG13	2.28	0.52
2:N:491:THR:HG22	2:N:530:LYS:N	2.20	0.52
2:N:574:PHE:O	2:N:619:ILE:HB	2.08	0.52
2:N:778:MET:HE3	2:N:1094:ARG:HD3	1.90	0.52
5:Q:41:PHE:HZ	5:Q:57:MET:CE	2.22	0.52
7:S:111:SER:CB	7:S:114:LEU:HD13	2.39	0.52
11:W:12:LEU:HD22	11:W:16:VAL:O	2.09	0.52
1:A:327:ARG:NH2	1:A:331:LYS:HE3	2.25	0.52
1:A:352:THR:HG21	2:B:1103:ILE:CD1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:699:GLN:HE21	9:I:99:LEU:HD21	1.74	0.52
2:B:366:ARG:HG2	2:B:559:LEU:HD23	1.91	0.52
2:B:479:TYR:CE1	2:B:1096:ARG:NH2	2.77	0.52
2:B:545:GLU:C	2:B:547:ILE:H	2.13	0.52
2:B:574:PHE:O	2:B:619:ILE:HB	2.09	0.52
2:B:1167:GLY:O	2:B:1168:LEU:HD23	2.09	0.52
2:B:1215:ARG:NH1	4:D:15:ALA:CB	2.72	0.52
7:G:1:MET:O	7:G:3:PHE:CD1	2.62	0.52
9:I:14:LEU:HD22	9:I:28:SER:O	2.10	0.52
1:M:44:SER:O	1:M:45:ARG:HB2	2.10	0.52
1:M:494:GLN:H	1:M:498:THR:HG21	1.75	0.52
1:M:542:ILE:HD13	1:M:550:MET:CE	2.40	0.52
1:M:1032:ARG:HB3	1:M:1032:ARG:HH11	1.75	0.52
1:M:1282:ILE:HG23	1:M:1311:THR:OG1	2.08	0.52
2:N:637:GLU:HA	2:N:637:GLU:OE1	2.10	0.52
7:S:27:ARG:O	7:S:30:LEU:HB3	2.10	0.52
7:S:89:ALA:CB	7:S:103:VAL:N	2.71	0.52
1:A:1047:VAL:O	1:A:1051:ILE:HG13	2.09	0.52
2:B:637:GLU:OE1	2:B:637:GLU:HA	2.10	0.52
2:B:857:ARG:NH1	2:B:945:GLU:OE2	2.43	0.52
2:B:971:THR:OG1	3:C:60:GLU:HG3	2.10	0.52
3:C:81:TYR:CE2	3:C:161:LYS:HB3	2.44	0.52
4:D:65:LYS:C	4:D:67:ARG:H	2.12	0.52
7:G:50:ASP:OD1	7:G:50:ASP:O	2.28	0.52
7:G:113:ARG:C	7:G:114:LEU:HD12	2.30	0.52
10:J:51:THR:O	10:J:51:THR:CG2	2.56	0.52
11:K:68:PHE:N	11:K:68:PHE:CD2	2.76	0.52
1:M:173:PRO:HD3	1:M:186:TRP:HE1	1.74	0.52
1:M:504:GLN:NE2	6:R:90:ARG:NH2	2.49	0.52
1:M:1440:GLY:O	1:M:1442:GLY:N	2.43	0.52
2:N:472:VAL:O	2:N:473:SER:HB3	2.08	0.52
2:N:857:ARG:NH1	2:N:945:GLU:OE2	2.43	0.52
3:O:115:SER:HB3	3:O:142:ILE:CG1	2.39	0.52
4:P:95:GLY:O	4:P:96:ALA:CB	2.58	0.52
10:V:20:ALA:O	10:V:24:LEU:HG	2.10	0.52
1:A:44:SER:O	1:A:45:ARG:HB2	2.10	0.52
1:A:265:HIS:C	1:A:267:LEU:H	2.13	0.52
1:A:321:ARG:NH2	1:A:324:LYS:HE3	2.24	0.52
1:A:335:GLY:O	1:A:337:LEU:N	2.42	0.52
1:A:850:MET:HG3	1:A:850:MET:O	2.09	0.52
1:A:1016:ALA:C	1:A:1017:THR:HG23	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1169:MET:HE1	2:B:1201:LYS:O	2.10	0.52
3:C:257:ASN:O	3:C:261:GLU:N	2.36	0.52
8:H:48:PRO:O	8:H:49:VAL:HG23	2.09	0.52
1:M:1405:PHE:CE2	1:M:1406:GLU:HG3	2.45	0.52
2:N:630:LEU:HD22	2:N:742:GLU:HA	1.90	0.52
2:N:1116:ARG:HD2	2:N:1198:TYR:CD1	2.45	0.52
4:P:65:LYS:O	4:P:69:ARG:HG3	2.10	0.52
7:S:44:TYR:O	7:S:78:VAL:HG12	2.10	0.52
9:U:14:LEU:HD22	9:U:28:SER:O	2.10	0.52
9:U:15:TYR:N	9:U:15:TYR:CD1	2.77	0.52
9:U:50:THR:HG22	9:U:51:ASN:N	2.21	0.52
1:A:23:SER:HB3	1:A:234:TRP:CZ2	2.45	0.52
1:A:43:GLU:HB2	1:A:46:GLN:HB2	1.90	0.52
1:A:66:LYS:O	1:A:67:CYS:HB2	2.09	0.52
1:A:1101:PRO:O	1:A:1104:LYS:HB3	2.10	0.52
1:A:1447:MET:CB	7:G:59:GLY:O	2.58	0.52
2:B:180:LEU:O	2:B:183:MET:N	2.41	0.52
2:B:200:GLU:OE2	2:B:476:LEU:HD23	2.10	0.52
2:B:810:GLU:HA	2:B:815:ARG:NH1	2.16	0.52
2:B:847:ASP:OD2	11:K:6:ARG:NH2	2.43	0.52
5:E:41:PHE:HZ	5:E:57:MET:CE	2.22	0.52
5:E:90:LYS:C	5:E:92:MET:N	2.63	0.52
5:E:156:SER:OG	5:E:159:GLU:HG3	2.10	0.52
7:G:44:TYR:O	7:G:78:VAL:HG12	2.10	0.52
9:I:50:THR:HG22	9:I:51:ASN:N	2.21	0.52
10:J:20:ALA:O	10:J:24:LEU:HG	2.10	0.52
1:M:1391:GLY:O	1:M:1394:ARG:N	2.41	0.52
2:N:702:MET:N	2:N:707:LEU:HD12	2.25	0.52
7:S:113:ARG:C	7:S:114:LEU:HD12	2.30	0.52
1:A:269:ASP:HB3	1:A:300:HIS:CE1	2.45	0.52
1:A:524:ILE:CG2	1:A:528:THR:HB	2.39	0.52
1:A:542:ILE:HD13	1:A:550:MET:CE	2.40	0.52
1:A:606:MET:HG2	1:A:622:THR:CG2	2.40	0.52
3:C:235:THR:OG1	10:J:13:VAL:HG22	2.10	0.52
1:M:41:MET:O	1:M:42:ASP:C	2.47	0.52
1:M:269:ASP:HB3	1:M:300:HIS:CE1	2.45	0.52
1:M:643:CYS:O	1:M:646:LEU:HB3	2.10	0.52
1:M:769:GLN:OE1	1:M:817:HIS:HA	2.08	0.52
1:M:857:THR:HB	1:M:866:GLN:HB2	1.92	0.52
1:M:902:LEU:HD11	1:M:985:ILE:CD1	2.40	0.52
1:M:1210:THR:HG22	1:M:1212:ASN:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:551:LEU:HD11	2:N:619:ILE:HD11	1.92	0.52
2:N:890:TYR:CA	2:N:910:ILE:CG2	2.83	0.52
8:T:111:ILE:HG22	8:T:112:LYS:N	2.23	0.52
11:W:53:TYR:HB3	11:W:56:VAL:HG23	1.92	0.52
1:A:219:ASP:HA	1:A:222:ARG:CG	2.39	0.52
1:A:801:VAL:C	1:A:813:GLU:OE1	2.49	0.52
1:A:1294:VAL:HG13	1:A:1295:PRO:HD2	1.92	0.52
2:B:38:PHE:CD2	2:B:164:MET:HB3	2.45	0.52
2:B:324:ASP:O	2:B:325:PHE:C	2.48	0.52
2:B:986:GLN:OE1	2:B:986:GLN:HA	2.09	0.52
2:B:1197:PRO:HG2	2:B:1200:ALA:CB	2.40	0.52
5:E:120:ASN:C	5:E:122:MET:H	2.13	0.52
1:M:850:MET:HG3	1:M:850:MET:O	2.09	0.52
2:N:576:ASN:HD21	2:N:621:THR:HB	1.75	0.52
2:N:847:ASP:OD2	11:W:6:ARG:NH2	2.43	0.52
2:N:913:GLY:HA2	2:N:938:SER:OG	2.10	0.52
7:S:1:MET:CE	7:S:80:LYS:O	2.54	0.52
9:U:34:TYR:CD2	9:U:34:TYR:C	2.84	0.52
11:W:84:LYS:O	11:W:87:LEU:HB3	2.10	0.52
1:A:316:LEU:HD13	1:A:320:GLY:O	2.10	0.51
1:A:381:VAL:HG13	1:A:386:ILE:HG12	1.92	0.51
1:A:1163:THR:HG22	1:A:1164:VAL:H	1.72	0.51
1:A:1166:GLU:C	1:A:1168:ASP:H	2.12	0.51
2:B:158:ILE:HA	2:B:443:SER:CB	2.40	0.51
2:B:859:TYR:HD1	2:B:859:TYR:H	1.57	0.51
4:D:67:ARG:HD2	4:D:93:THR:HB	1.92	0.51
1:M:327:ARG:NH2	1:M:331:LYS:HE3	2.24	0.51
1:M:851:VAL:HG21	1:M:1060:VAL:HG11	1.91	0.51
5:Q:156:SER:OG	5:Q:159:GLU:HG3	2.10	0.51
6:R:84:TYR:CE1	6:R:152:ILE:HD12	2.44	0.51
1:A:50:GLU:C	1:A:52:GLY:N	2.63	0.51
1:A:857:THR:HB	1:A:866:GLN:HB2	1.93	0.51
1:A:1032:ARG:HB3	1:A:1032:ARG:HH11	1.75	0.51
1:A:1068:VAL:O	1:A:1072:GLN:HG3	2.10	0.51
1:A:1344:ILE:HG23	1:A:1345:GLU:N	2.25	0.51
2:B:515:VAL:HG13	2:B:531:ASN:O	2.10	0.51
2:B:864:LYS:O	2:B:872:GLU:HG3	2.09	0.51
3:C:5:PRO:HB3	3:C:24:VAL:CG1	2.36	0.51
3:C:201:TRP:CE3	3:C:202:PRO:HD2	2.45	0.51
7:G:88:ASP:CB	7:G:144:ARG:HA	2.23	0.51
8:H:6:PHE:O	8:H:58:THR:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:34:TYR:CD2	9:I:34:TYR:C	2.84	0.51
1:M:219:ASP:HA	1:M:222:ARG:CG	2.40	0.51
1:M:445:PHE:CB	1:M:459:HIS:CD2	2.94	0.51
1:M:606:MET:HG2	1:M:622:THR:CG2	2.41	0.51
1:M:1101:PRO:O	1:M:1104:LYS:HB3	2.09	0.51
1:M:1294:VAL:HG13	1:M:1295:PRO:HD2	1.92	0.51
2:N:180:LEU:O	2:N:183:MET:N	2.41	0.51
2:N:515:VAL:HG13	2:N:531:ASN:O	2.10	0.51
2:N:1158:PHE:HE2	2:N:1201:LYS:HD2	1.76	0.51
5:Q:81:PHE:CG	5:Q:110:ILE:HG21	2.46	0.51
5:Q:95:PHE:CE2	5:Q:109:PHE:HB2	2.45	0.51
1:A:413:ARG:NH2	2:B:1108:ARG:NH2	2.59	0.51
1:A:498:THR:HG23	2:B:1146:PHE:HD1	1.74	0.51
1:A:801:VAL:HG22	1:A:809:LEU:HG	1.91	0.51
1:A:936:GLN:O	1:A:939:SER:N	2.42	0.51
1:A:1367:ASN:ND2	1:A:1368:TYR:N	2.55	0.51
2:B:551:LEU:C	2:B:553:GLU:N	2.63	0.51
2:B:1158:PHE:HE2	2:B:1201:LYS:HD2	1.75	0.51
5:E:16:ARG:HH11	5:E:16:ARG:CG	2.23	0.51
6:F:96:THR:O	6:F:100:GLN:HG3	2.11	0.51
9:I:15:TYR:N	9:I:15:TYR:CD1	2.77	0.51
12:L:32:THR:HG22	12:L:33:CYS:N	2.24	0.51
1:M:371:ILE:HD12	1:M:469:PHE:CE2	2.45	0.51
1:M:1344:ILE:HG23	1:M:1345:GLU:N	2.26	0.51
1:M:1376:ASP:CA	1:M:1379:THR:HG22	2.40	0.51
2:N:158:ILE:HA	2:N:443:SER:CB	2.40	0.51
5:Q:16:ARG:HH11	5:Q:16:ARG:CG	2.23	0.51
7:S:14:HIS:CD2	7:S:16:SER:CB	2.94	0.51
8:T:99:THR:HG22	8:T:100:VAL:N	2.25	0.51
11:W:47:ARG:HB3	11:W:47:ARG:HH11	1.75	0.51
11:W:50:LEU:C	11:W:52:LEU:H	2.14	0.51
1:A:643:CYS:O	1:A:646:LEU:HB3	2.10	0.51
1:A:769:GLN:OE1	1:A:817:HIS:CG	2.63	0.51
1:A:1017:THR:OG1	1:A:1018:SER:N	2.44	0.51
1:A:1210:THR:HG22	1:A:1212:ASN:H	1.74	0.51
1:A:1391:GLY:O	1:A:1394:ARG:N	2.41	0.51
1:A:1405:PHE:CE2	1:A:1406:GLU:HG3	2.45	0.51
2:B:607:SER:HA	2:B:694:GLU:OE1	2.11	0.51
2:B:801:LYS:O	10:J:51:THR:CG2	2.56	0.51
11:K:47:ARG:HB3	11:K:47:ARG:HH11	1.75	0.51
11:K:50:LEU:C	11:K:52:LEU:H	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:471:LEU:HD12	1:M:471:LEU:C	2.31	0.51
2:N:200:GLU:OE2	2:N:476:LEU:HD23	2.10	0.51
2:N:774:GLY:C	2:N:776:GLN:H	2.14	0.51
4:P:47:ASP:O	4:P:48:LEU:O	2.29	0.51
5:Q:89:ILE:HG21	5:Q:118:SER:CA	2.40	0.51
11:W:5:ASP:HB3	11:W:7:PHE:CE2	2.46	0.51
11:W:68:PHE:CD2	11:W:68:PHE:N	2.76	0.51
12:X:32:THR:HG22	12:X:33:CYS:N	2.24	0.51
1:A:38:PRO:HG2	1:A:39:GLU:OE1	2.11	0.51
1:A:169:GLY:O	1:A:170:ASN:C	2.49	0.51
1:A:263:LEU:HD11	1:A:326:ILE:HG12	1.93	0.51
1:A:371:ILE:HD12	1:A:469:PHE:CE2	2.45	0.51
1:A:404:LYS:HG3	1:A:404:LYS:O	2.10	0.51
1:A:902:LEU:HD11	1:A:985:ILE:CD1	2.41	0.51
2:B:913:GLY:HA2	2:B:938:SER:OG	2.10	0.51
4:D:47:ASP:O	4:D:48:LEU:O	2.29	0.51
1:M:23:SER:HB3	1:M:234:TRP:CZ2	2.45	0.51
1:M:226:ASN:ND2	1:M:229:TYR:H	2.04	0.51
1:M:316:LEU:HD13	1:M:320:GLY:O	2.11	0.51
1:M:472:ASN:O	1:M:475:VAL:HG12	2.10	0.51
1:M:859:ASN:ND2	1:M:859:ASN:C	2.60	0.51
1:M:1068:VAL:O	1:M:1072:GLN:HG3	2.10	0.51
1:M:1444:PHE:CE2	6:R:89:GLU:HG2	2.45	0.51
2:N:228:VAL:HG22	2:N:248:LYS:HA	1.92	0.51
2:N:859:TYR:N	2:N:859:TYR:CD1	2.78	0.51
2:N:971:THR:OG1	3:O:60:GLU:HG3	2.10	0.51
2:N:1197:PRO:HG2	2:N:1200:ALA:CB	2.40	0.51
1:A:79:GLY:H	2:B:1205:GLN:HE22	1.57	0.51
1:A:173:PRO:HD3	1:A:186:TRP:HE1	1.74	0.51
1:A:472:ASN:O	1:A:475:VAL:HG12	2.10	0.51
2:B:201:LYS:HE2	2:B:455:ALA:O	2.11	0.51
2:B:702:MET:H	2:B:707:LEU:CD1	2.24	0.51
2:B:890:TYR:CA	2:B:910:ILE:HG21	2.40	0.51
5:E:89:ILE:HG21	5:E:118:SER:CA	2.40	0.51
6:F:82:THR:CG2	6:F:84:TYR:HB2	2.41	0.51
1:M:227:GLU:O	1:M:227:GLU:HG2	2.10	0.51
1:M:303:THR:CG2	1:M:304:TYR:N	2.71	0.51
1:M:787:HIS:HD2	2:N:700:ILE:HB	1.71	0.51
1:M:815:PHE:O	1:M:816:PHE:C	2.49	0.51
1:M:1017:THR:OG1	1:M:1018:SER:N	2.43	0.51
2:N:326:ILE:O	2:N:326:ILE:HG22	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1169:MET:HE1	2:N:1204:PHE:HB2	1.92	0.51
3:O:38:ALA:HA	3:O:164:ALA:CB	2.39	0.51
3:O:179:GLU:HG2	3:O:180:TYR:N	2.26	0.51
6:R:82:THR:CG2	6:R:84:TYR:HB2	2.41	0.51
7:S:160:ILE:HG22	7:S:161:GLY:H	1.75	0.51
1:A:110:CYS:SG	1:A:111:GLY:N	2.84	0.51
1:A:445:PHE:CB	1:A:459:HIS:CD2	2.94	0.51
1:A:445:PHE:CB	1:A:459:HIS:HD2	2.24	0.51
1:A:685:SER:O	1:A:688:LYS:HB2	2.11	0.51
1:A:828:THR:HA	1:A:831:LYS:HE2	1.93	0.51
1:A:1376:ASP:CA	1:A:1379:THR:HG22	2.40	0.51
2:B:555:GLY:HA3	2:B:583:HIS:HE1	1.75	0.51
2:B:572:ARG:HG2	2:B:572:ARG:HH11	1.76	0.51
2:B:774:GLY:C	2:B:776:GLN:H	2.14	0.51
3:C:42:THR:CG2	3:C:43:LEU:N	2.61	0.51
4:D:65:LYS:O	4:D:69:ARG:HG3	2.10	0.51
5:E:81:PHE:CD2	5:E:110:ILE:HG21	2.46	0.51
5:E:146:HIS:CD2	5:E:148:LEU:H	2.29	0.51
8:H:99:THR:HG22	8:H:100:VAL:N	2.25	0.51
1:M:681:THR:HG23	2:N:726:ILE:HD11	1.91	0.51
1:M:936:GLN:O	1:M:939:SER:N	2.43	0.51
2:N:249:LEU:HG	2:N:249:LEU:O	2.10	0.51
2:N:702:MET:H	2:N:707:LEU:CD1	2.24	0.51
2:N:1198:TYR:HE2	2:N:1202:LEU:HD12	1.75	0.51
3:O:201:TRP:CE3	3:O:202:PRO:HD2	2.45	0.51
4:P:53:LEU:HD22	4:P:108:TYR:HE2	1.75	0.51
8:T:36:ILE:CG1	8:T:36:ILE:CA	2.82	0.51
1:A:218:GLU:O	1:A:222:ARG:CG	2.59	0.51
1:A:822:ARG:HH11	1:A:822:ARG:CB	2.22	0.51
1:A:831:LYS:HD2	1:A:1081:MET:O	2.11	0.51
1:A:887:ILE:CG2	1:A:888:PRO:N	2.73	0.51
1:A:1450:GLU:CG	7:G:22:MET:CB	2.84	0.51
2:B:162:PRO:HD2	2:B:450:LEU:HD13	1.93	0.51
2:B:859:TYR:N	2:B:859:TYR:CD1	2.78	0.51
2:B:1183:ARG:C	2:B:1185:CYS:H	2.15	0.51
3:C:38:ALA:HA	3:C:164:ALA:CB	2.39	0.51
4:D:53:LEU:HD22	4:D:108:TYR:HE2	1.75	0.51
7:G:111:SER:CB	7:G:114:LEU:HD13	2.39	0.51
11:K:5:ASP:HB3	11:K:7:PHE:CE2	2.46	0.51
11:K:53:TYR:HB3	11:K:56:VAL:HG23	1.92	0.51
12:L:36:CYS:O	12:L:38:HIS:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:50:GLU:C	1:M:52:GLY:N	2.64	0.51
1:M:79:GLY:H	2:N:1205:GLN:HE22	1.57	0.51
1:M:265:HIS:C	1:M:267:LEU:H	2.13	0.51
1:M:578:LEU:O	1:M:581:ILE:CG2	2.36	0.51
1:M:648:GLY:O	1:M:652:LYS:HG3	2.11	0.51
2:N:107:ARG:HG2	2:N:955:THR:HG21	1.92	0.51
2:N:162:PRO:HD2	2:N:450:LEU:HD13	1.93	0.51
2:N:1159:ARG:CG	2:N:1193:GLN:HE21	2.23	0.51
3:O:166:GLU:CG	11:W:10:PHE:HZ	2.23	0.51
4:P:49:ILE:O	4:P:49:ILE:HG22	2.11	0.51
8:T:6:PHE:O	8:T:58:THR:HG23	2.11	0.51
10:V:47:ARG:HH21	10:V:48:MET:HE1	1.75	0.51
12:X:36:CYS:O	12:X:38:HIS:N	2.44	0.51
1:A:446:ASN:CB	1:A:456:MET:HG2	2.41	0.51
1:A:1321:ALA:HB1	5:E:140:VAL:HG11	1.93	0.51
2:B:542:SER:O	2:B:621:THR:HG21	2.11	0.51
2:B:542:SER:H	2:B:621:THR:HG23	1.76	0.51
2:B:763:GLN:HG2	2:B:765:PRO:CG	2.39	0.51
2:B:1106:ARG:CZ	2:B:1109:GLY:H	2.24	0.51
2:B:1198:TYR:HE2	2:B:1202:LEU:HD12	1.75	0.51
10:J:47:ARG:HH21	10:J:48:MET:HE1	1.76	0.51
1:M:249:PRO:O	1:M:261:ASP:HB2	2.11	0.51
1:M:801:VAL:HG11	1:M:809:LEU:CD1	2.40	0.51
1:M:1084:ASN:HB3	1:M:1086:PHE:CD1	2.41	0.51
2:N:542:SER:O	2:N:621:THR:HG21	2.11	0.51
2:N:607:SER:HA	2:N:694:GLU:OE1	2.11	0.51
2:N:890:TYR:CA	2:N:910:ILE:HG21	2.39	0.51
5:Q:47:ASP:CG	5:Q:48:SER:N	2.63	0.51
5:Q:164:LEU:HD22	5:Q:169:LEU:HB2	1.93	0.51
6:R:96:THR:O	6:R:100:GLN:HG3	2.10	0.51
1:A:227:GLU:O	1:A:227:GLU:HG2	2.10	0.51
1:A:249:PRO:O	1:A:261:ASP:HB2	2.11	0.51
2:B:252:ARG:HB3	2:B:252:ARG:HH11	1.76	0.51
2:B:290:LEU:CD1	2:B:306:LEU:HD13	2.41	0.51
2:B:392:ASP:OD2	2:B:503:LYS:CD	2.57	0.51
2:B:1117:GLN:HG2	2:B:1155:SER:OG	2.11	0.51
2:B:1159:ARG:HD3	2:B:1193:GLN:CG	2.41	0.51
4:D:49:ILE:HG22	4:D:49:ILE:O	2.11	0.51
5:E:84:GLU:O	5:E:86:SER:N	2.39	0.51
1:M:38:PRO:HG2	1:M:39:GLU:OE1	2.11	0.51
1:M:629:GLY:O	1:M:633:THR:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:685:SER:O	1:M:688:LYS:HB2	2.11	0.51
1:M:822:ARG:HH11	1:M:822:ARG:CB	2.22	0.51
1:M:1076:GLU:HB3	1:M:1077:PRO:HD3	1.93	0.51
2:N:38:PHE:CD2	2:N:164:MET:HB3	2.45	0.51
2:N:859:TYR:HD1	2:N:859:TYR:H	1.57	0.51
2:N:976:ILE:HG12	2:N:993:THR:HG23	1.93	0.51
4:P:166:LYS:O	4:P:167:LYS:CB	2.59	0.51
5:Q:199:ARG:HG3	5:Q:199:ARG:HH11	1.76	0.51
7:S:1:MET:O	7:S:3:PHE:CE1	2.64	0.51
8:T:40:LEU:HB2	8:T:122:MET:HE2	1.93	0.51
1:A:648:GLY:O	1:A:652:LYS:HG3	2.11	0.50
1:A:681:THR:HG23	2:B:726:ILE:HD11	1.91	0.50
1:A:1076:GLU:HB3	1:A:1077:PRO:HD3	1.93	0.50
2:B:107:ARG:HG2	2:B:955:THR:HG21	1.92	0.50
2:B:326:ILE:HG22	2:B:326:ILE:O	2.10	0.50
2:B:491:THR:HG22	2:B:530:LYS:N	2.20	0.50
2:B:632:ILE:HG22	2:B:634:GLU:HG2	1.92	0.50
2:B:1005:GLY:O	2:B:1006:ILE:C	2.49	0.50
4:D:106:LEU:O	4:D:110:ASN:HB2	2.12	0.50
4:D:166:LYS:O	4:D:167:LYS:CB	2.59	0.50
5:E:95:PHE:CE2	5:E:109:PHE:HB2	2.45	0.50
5:E:199:ARG:HH11	5:E:199:ARG:HG3	1.76	0.50
7:G:1:MET:CE	7:G:80:LYS:O	2.54	0.50
1:M:110:CYS:SG	1:M:111:GLY:N	2.84	0.50
1:M:218:GLU:O	1:M:222:ARG:CG	2.59	0.50
1:M:263:LEU:HD11	1:M:326:ILE:HG12	1.93	0.50
1:M:476:THR:HG23	1:M:477:SER:H	1.76	0.50
1:M:591:ARG:HG3	1:M:591:ARG:HH11	1.76	0.50
1:M:810:THR:O	1:M:811:PRO:C	2.50	0.50
1:M:831:LYS:HD2	1:M:1081:MET:O	2.11	0.50
1:M:1335:PHE:N	1:M:1335:PHE:CD2	2.76	0.50
2:N:290:LEU:CD1	2:N:306:LEU:HD13	2.40	0.50
2:N:542:SER:H	2:N:621:THR:HG23	1.76	0.50
2:N:806:THR:H	2:N:809:MET:HG3	1.76	0.50
2:N:906:SER:O	2:N:941:LEU:HD23	2.12	0.50
2:N:1106:ARG:CZ	2:N:1109:GLY:H	2.24	0.50
4:P:24:ASN:O	7:S:83:LYS:HB2	2.10	0.50
1:A:667:ILE:CD1	1:A:668:GLY:H	2.21	0.50
2:B:12:ILE:HG23	2:B:652:ILE:CD1	2.42	0.50
2:B:195:VAL:HG13	2:B:198:GLY:O	2.12	0.50
2:B:249:LEU:O	2:B:249:LEU:HG	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:281:LEU:HD21	2:B:364:GLU:O	2.11	0.50
2:B:906:SER:O	2:B:941:LEU:HD23	2.11	0.50
2:B:1159:ARG:CG	2:B:1193:GLN:HE21	2.24	0.50
3:C:251:LEU:HG	11:K:98:LEU:HD11	1.92	0.50
5:E:81:PHE:CG	5:E:110:ILE:HG21	2.46	0.50
7:G:114:LEU:HB3	7:G:162:SER:CB	2.42	0.50
9:I:100:PHE:N	9:I:100:PHE:CD1	2.79	0.50
10:J:19:ASP:O	10:J:23:ARG:HB2	2.11	0.50
1:M:381:VAL:HG13	1:M:386:ILE:HG12	1.92	0.50
1:M:419:HIS:CG	1:M:421:ARG:H	2.29	0.50
1:M:473:LEU:HD11	2:N:835:GLN:NE2	2.26	0.50
1:M:667:ILE:CD1	1:M:668:GLY:H	2.21	0.50
1:M:828:THR:HA	1:M:831:LYS:HE2	1.93	0.50
1:M:1146:LYS:HA	1:M:1271:LEU:HD22	1.93	0.50
2:N:370:PHE:O	2:N:373:TYR:N	2.44	0.50
2:N:1159:ARG:HD3	2:N:1193:GLN:CG	2.41	0.50
5:Q:32:GLU:O	5:Q:35:ASP:N	2.44	0.50
5:Q:90:LYS:C	5:Q:92:MET:N	2.63	0.50
1:A:593:ASP:H	1:A:596:ASN:CG	2.13	0.50
1:A:607:LEU:HB3	1:A:615:PHE:CD2	2.46	0.50
1:A:684:ILE:O	1:A:688:LYS:HG3	2.11	0.50
1:A:810:THR:O	1:A:811:PRO:C	2.50	0.50
1:A:815:PHE:O	1:A:816:PHE:C	2.49	0.50
2:B:806:THR:H	2:B:809:MET:HG3	1.76	0.50
3:C:54:THR:O	3:C:54:THR:HG22	2.10	0.50
4:D:24:ASN:O	7:G:83:LYS:HB2	2.10	0.50
8:H:12:VAL:HG13	8:H:26:ILE:CG2	2.41	0.50
10:J:43:TYR:HD2	10:J:43:TYR:H	1.58	0.50
1:M:404:LYS:HG3	1:M:404:LYS:O	2.10	0.50
1:M:607:LEU:HB3	1:M:615:PHE:CD2	2.46	0.50
1:M:842:LEU:HD22	1:M:1374:LEU:HD22	1.94	0.50
1:M:1200:ASP:HB3	1:M:1203:ARG:CB	2.41	0.50
2:N:324:ASP:O	2:N:325:PHE:C	2.48	0.50
2:N:572:ARG:HG2	2:N:572:ARG:HH11	1.76	0.50
2:N:632:ILE:HG22	2:N:634:GLU:HG2	1.92	0.50
2:N:812:LEU:O	2:N:814:PHE:N	2.44	0.50
2:N:954:LEU:HA	2:N:964:VAL:HG22	1.93	0.50
3:O:31:SER:OG	11:W:45:LEU:HD13	2.11	0.50
3:O:99:GLU:CG	3:O:121:VAL:HG22	2.41	0.50
7:S:39:THR:O	7:S:43:GLY:N	2.32	0.50
8:T:12:VAL:HG13	8:T:26:ILE:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:MET:O	1:A:254:ASP:CB	2.59	0.50
1:A:471:LEU:C	1:A:471:LEU:HD12	2.31	0.50
1:A:629:GLY:O	1:A:633:THR:HG22	2.10	0.50
1:A:842:LEU:HD22	1:A:1374:LEU:HD22	1.94	0.50
1:A:854:ASP:CG	1:A:856:THR:HG22	2.32	0.50
1:A:1352:TYR:O	1:A:1355:ILE:HG22	2.11	0.50
2:B:228:VAL:HG22	2:B:248:LYS:HA	1.93	0.50
2:B:370:PHE:O	2:B:373:TYR:N	2.44	0.50
2:B:576:ASN:HD21	2:B:621:THR:HB	1.75	0.50
2:B:860:MET:CB	2:B:965:LYS:HG2	2.42	0.50
7:G:160:ILE:HG22	7:G:161:GLY:H	1.76	0.50
2:N:12:ILE:HG23	2:N:652:ILE:CD1	2.42	0.50
2:N:201:LYS:HE2	2:N:455:ALA:O	2.11	0.50
2:N:252:ARG:NH1	2:N:252:ARG:HB3	2.27	0.50
3:O:54:THR:O	3:O:54:THR:HG22	2.10	0.50
3:O:81:TYR:CD2	3:O:161:LYS:HB3	2.46	0.50
4:P:158:THR:HG22	4:P:159:LEU:HD23	1.94	0.50
5:Q:120:ASN:C	5:Q:122:MET:H	2.13	0.50
7:S:14:HIS:HD2	7:S:16:SER:HB3	1.71	0.50
1:A:591:ARG:HG3	1:A:591:ARG:HH11	1.76	0.50
1:A:615:PHE:HB3	8:H:121:LEU:HD21	1.94	0.50
2:B:587:SER:HA	2:B:610:ARG:HH12	1.76	0.50
2:B:755:ILE:HG22	2:B:809:MET:CE	2.41	0.50
4:D:65:LYS:C	4:D:67:ARG:N	2.65	0.50
6:F:72:LEU:O	6:F:73:ALA:HB2	2.12	0.50
1:M:321:ARG:NH2	1:M:324:LYS:HE3	2.24	0.50
1:M:446:ASN:CB	1:M:456:MET:HG2	2.41	0.50
1:M:593:ASP:H	1:M:596:ASN:CG	2.14	0.50
1:M:615:PHE:HB3	8:T:121:LEU:HD21	1.94	0.50
1:M:684:ILE:O	1:M:688:LYS:HG3	2.11	0.50
1:M:887:ILE:CG2	1:M:888:PRO:N	2.73	0.50
1:M:1413:PHE:C	1:M:1415:ALA:H	2.15	0.50
2:N:195:VAL:HG13	2:N:198:GLY:O	2.12	0.50
2:N:281:LEU:HD21	2:N:364:GLU:O	2.11	0.50
2:N:587:SER:HA	2:N:610:ARG:HH12	1.76	0.50
2:N:763:GLN:HG2	2:N:765:PRO:CG	2.39	0.50
2:N:821:GLN:HE22	2:N:851:PHE:N	2.00	0.50
2:N:1162:VAL:HG12	2:N:1163:CYS:H	1.77	0.50
4:P:51:LEU:HD12	4:P:56:SER:HA	1.93	0.50
8:T:12:VAL:HG13	8:T:26:ILE:CG2	2.41	0.50
10:V:19:ASP:O	10:V:23:ARG:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:LYS:HB3	2:B:1220:ARG:NH2	2.26	0.50
1:A:147:VAL:O	1:A:149:GLU:N	2.44	0.50
1:A:601:PRO:C	1:A:603:ASP:H	2.15	0.50
1:A:1200:ASP:HB3	1:A:1203:ARG:CB	2.41	0.50
1:A:1386:ALA:O	1:A:1391:GLY:HA3	2.12	0.50
1:A:1413:PHE:C	1:A:1415:ALA:H	2.15	0.50
1:A:1447:MET:N	1:A:1447:MET:HE2	2.26	0.50
2:B:1169:MET:HE1	2:B:1204:PHE:HB2	1.93	0.50
3:C:81:TYR:CD2	3:C:161:LYS:HB3	2.46	0.50
5:E:32:GLU:O	5:E:35:ASP:N	2.44	0.50
6:F:97:ARG:HG2	6:F:130:ILE:HG23	1.93	0.50
7:G:1:MET:O	7:G:3:PHE:CE1	2.64	0.50
7:G:14:HIS:CD2	7:G:16:SER:CB	2.94	0.50
8:H:12:VAL:HG13	8:H:26:ILE:HG21	1.93	0.50
9:I:56:ALA:O	9:I:57:GLY:C	2.49	0.50
1:M:219:ASP:O	1:M:220:CYS:C	2.50	0.50
1:M:288:HIS:O	1:M:292:GLU:OE2	2.30	0.50
1:M:528:THR:HG21	1:M:651:GLN:HG3	1.94	0.50
1:M:601:PRO:C	1:M:603:ASP:H	2.15	0.50
1:M:623:VAL:O	1:M:623:VAL:HG13	2.11	0.50
1:M:646:LEU:HD11	1:M:650:ILE:HD11	1.94	0.50
2:N:997:GLU:HB3	3:O:34:ARG:HB3	1.93	0.50
2:N:1116:ARG:CD	2:N:1198:TYR:CD1	2.95	0.50
3:O:251:LEU:HG	11:W:98:LEU:HD11	1.92	0.50
4:P:106:LEU:O	4:P:110:ASN:HB2	2.11	0.50
5:Q:81:PHE:CD2	5:Q:110:ILE:HG21	2.46	0.50
1:A:286:PRO:O	1:A:288:HIS:N	2.45	0.50
1:A:419:HIS:CG	1:A:421:ARG:H	2.29	0.50
1:A:755:SER:H	1:A:758:ASN:HD22	1.60	0.50
1:A:1146:LYS:HA	1:A:1271:LEU:HD22	1.93	0.50
2:B:778:MET:HE3	2:B:1094:ARG:HD3	1.90	0.50
2:B:976:ILE:HG12	2:B:993:THR:HG23	1.93	0.50
3:C:179:GLU:HG2	3:C:180:TYR:N	2.26	0.50
5:E:92:MET:CE	5:E:119:ALA:HB1	2.42	0.50
5:E:113:ASN:O	5:E:114:ASN:HB3	2.12	0.50
1:M:72:GLU:O	1:M:73:GLY:O	2.30	0.50
1:M:333:LYS:HA	1:M:338:ARG:HD2	1.94	0.50
1:M:445:PHE:CB	1:M:459:HIS:HD2	2.24	0.50
1:M:606:MET:HE2	1:M:613:VAL:HG13	1.93	0.50
2:N:860:MET:CB	2:N:965:LYS:HG2	2.42	0.50
2:N:1005:GLY:O	2:N:1006:ILE:C	2.49	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:115:SER:CB	3:O:142:ILE:CG1	2.89	0.50
4:P:67:ARG:HD2	4:P:93:THR:HB	1.92	0.50
1:A:72:GLU:O	1:A:73:GLY:O	2.30	0.50
1:A:219:ASP:O	1:A:220:CYS:C	2.50	0.50
1:A:513:VAL:HG13	1:A:513:VAL:O	2.12	0.50
1:A:608:ILE:HG12	1:A:613:VAL:HA	1.94	0.50
1:A:623:VAL:O	1:A:623:VAL:HG13	2.11	0.50
1:A:772:GLU:H	1:A:823:GLU:CD	2.14	0.50
2:B:227:HIS:CE1	2:B:382:ALA:HA	2.47	0.50
2:B:252:ARG:HB3	2:B:252:ARG:NH1	2.27	0.50
2:B:573:ILE:O	2:B:579:TRP:HD1	1.95	0.50
2:B:705:GLU:HG3	2:B:706:ASP:H	1.76	0.50
2:B:757:PRO:HG3	2:B:1028:GLU:OE2	2.12	0.50
2:B:812:LEU:O	2:B:814:PHE:N	2.44	0.50
2:B:826:ALA:HB2	2:B:1008:PRO:HB3	1.93	0.50
2:B:954:LEU:HA	2:B:964:VAL:HG22	1.93	0.50
2:B:980:PHE:C	2:B:1095:LEU:HD13	2.32	0.50
2:B:997:GLU:HB3	3:C:34:ARG:HB3	1.93	0.50
3:C:166:GLU:CG	11:K:10:PHE:HZ	2.24	0.50
5:E:47:ASP:CG	5:E:48:SER:N	2.63	0.50
11:K:87:LEU:O	11:K:87:LEU:HD12	2.11	0.50
1:M:169:GLY:O	1:M:170:ASN:C	2.49	0.50
1:M:1352:TYR:O	1:M:1355:ILE:HG22	2.11	0.50
1:M:1386:ALA:O	1:M:1391:GLY:HA3	2.12	0.50
2:N:112:SER:HB2	2:N:161:VAL:O	2.12	0.50
2:N:826:ALA:HB2	2:N:1008:PRO:HB3	1.92	0.50
2:N:980:PHE:C	2:N:1095:LEU:HD13	2.32	0.50
2:N:1183:ARG:C	2:N:1185:CYS:H	2.15	0.50
7:S:114:LEU:HB3	7:S:162:SER:CB	2.42	0.50
9:U:100:PHE:N	9:U:100:PHE:CD1	2.79	0.50
12:X:61:ALA:O	12:X:62:ARG:O	2.30	0.50
1:A:528:THR:HG21	1:A:651:GLN:HG3	1.94	0.50
1:A:815:PHE:O	1:A:818:ALA:N	2.45	0.50
2:B:1023:VAL:O	2:B:1026:LEU:N	2.45	0.50
2:B:1114:LEU:O	2:B:1198:TYR:HE2	1.95	0.50
2:B:1116:ARG:CG	2:B:1198:TYR:CG	2.93	0.50
2:B:1156:ASP:HB3	2:B:1197:PRO:HA	1.94	0.50
2:B:1162:VAL:HG12	2:B:1163:CYS:H	1.77	0.50
2:B:1163:CYS:HB3	2:B:1166:CYS:O	2.12	0.50
7:G:38:CYS:SG	7:G:157:ILE:HG13	2.52	0.50
1:M:40:ILE:HG22	1:M:41:MET:HG3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:755:SER:H	1:M:758:ASN:HD22	1.60	0.50
1:M:1172:VAL:HG12	1:M:1176:PHE:CE1	2.47	0.50
1:M:1437:ALA:O	1:M:1439:MET:N	2.45	0.50
2:N:252:ARG:HB3	2:N:252:ARG:HH11	1.76	0.50
2:N:882:THR:HB	2:N:934:LYS:O	2.12	0.50
5:Q:113:ASN:O	5:Q:114:ASN:HB3	2.12	0.50
1:A:266:LYS:HE2	1:A:323:VAL:HG21	1.94	0.49
1:A:288:HIS:O	1:A:292:GLU:OE2	2.30	0.49
1:A:1213:GLN:O	1:A:1214:VAL:C	2.51	0.49
1:A:1335:PHE:CE1	1:A:1351:LEU:HD13	2.47	0.49
2:B:206:GLN:NE2	2:B:206:GLN:HA	2.26	0.49
2:B:1017:ILE:HB	2:B:1018:PRO:HD3	1.94	0.49
3:C:31:SER:OG	11:K:45:LEU:HD13	2.12	0.49
4:D:138:HIS:O	4:D:140:PHE:N	2.45	0.49
5:E:164:LEU:HD22	5:E:169:LEU:HB2	1.93	0.49
1:M:15:LYS:HB3	2:N:1220:ARG:NH2	2.26	0.49
1:M:64:ASN:O	1:M:65:PHE:C	2.51	0.49
1:M:635:MET:CG	1:M:643:CYS:SG	3.00	0.49
1:M:1367:ASN:ND2	1:M:1368:TYR:N	2.56	0.49
2:N:27:GLU:OE1	2:N:678:TRP:HB3	2.11	0.49
2:N:755:ILE:HG22	2:N:809:MET:CE	2.41	0.49
2:N:1023:VAL:O	2:N:1026:LEU:N	2.45	0.49
2:N:1178:ASN:O	2:N:1179:GLN:C	2.49	0.49
4:P:53:LEU:HD12	4:P:147:SER:HB2	1.93	0.49
4:P:65:LYS:C	4:P:67:ARG:N	2.65	0.49
4:P:94:SER:O	4:P:96:ALA:N	2.45	0.49
6:R:72:LEU:O	6:R:73:ALA:HB2	2.11	0.49
1:A:473:LEU:HD11	2:B:835:GLN:NE2	2.26	0.49
1:A:476:THR:CG2	1:A:477:SER:H	2.25	0.49
1:A:747:MET:HE1	2:B:1014:PRO:O	2.12	0.49
1:A:770:MET:N	1:A:820:ALA:HB2	2.27	0.49
1:A:1405:PHE:CZ	1:A:1406:GLU:HG3	2.47	0.49
2:B:1001:PHE:O	2:B:1072:MET:HA	2.12	0.49
2:B:1178:ASN:O	2:B:1179:GLN:C	2.49	0.49
7:G:80:LYS:HE2	7:G:80:LYS:H	1.76	0.49
1:M:776:ILE:HD11	1:M:816:PHE:HB3	1.94	0.49
1:M:1241:ARG:NH2	1:M:1243:ARG:HH22	2.02	0.49
1:M:1405:PHE:CZ	1:M:1406:GLU:HG3	2.47	0.49
2:N:227:HIS:CE1	2:N:382:ALA:HA	2.47	0.49
2:N:757:PRO:HG3	2:N:1028:GLU:OE2	2.12	0.49
7:S:38:CYS:SG	7:S:157:ILE:HG13	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:56:ALA:O	9:U:57:GLY:C	2.50	0.49
1:A:90:VAL:CG1	1:A:298:GLN:NE2	2.75	0.49
1:A:101:LYS:HA	1:A:104:GLU:OE1	2.12	0.49
1:A:635:MET:CG	1:A:643:CYS:SG	3.00	0.49
1:A:646:LEU:HD11	1:A:650:ILE:HD11	1.94	0.49
1:A:874:LEU:C	1:A:1060:VAL:HG23	2.32	0.49
2:B:280:ALA:CA	2:B:322:ALA:HB1	2.42	0.49
1:M:24:PRO:HD2	1:M:234:TRP:CD1	2.47	0.49
1:M:98:LYS:O	1:M:99:ILE:C	2.50	0.49
1:M:147:VAL:O	1:M:149:GLU:HG3	2.13	0.49
1:M:513:VAL:O	1:M:513:VAL:HG13	2.12	0.49
2:N:812:LEU:C	2:N:814:PHE:N	2.66	0.49
3:O:242:GLN:C	3:O:244:PHE:N	2.66	0.49
4:P:105:THR:OG1	7:S:105:PRO:HD3	2.13	0.49
4:P:138:HIS:O	4:P:140:PHE:N	2.45	0.49
5:Q:146:HIS:CD2	5:Q:148:LEU:H	2.29	0.49
5:Q:152:HIS:O	5:Q:153:ILE:CG1	2.54	0.49
11:W:87:LEU:O	11:W:87:LEU:HD12	2.11	0.49
1:A:316:LEU:HD12	2:B:464:LYS:CG	2.42	0.49
1:A:476:THR:HG23	1:A:477:SER:H	1.76	0.49
1:A:574:THR:O	1:A:577:GLN:HB2	2.13	0.49
1:A:1207:LYS:O	1:A:1208:GLN:O	2.30	0.49
2:B:27:GLU:OE1	2:B:678:TRP:HB3	2.11	0.49
2:B:519:GLU:HB2	2:B:752:ALA:HB3	1.94	0.49
3:C:33:ARG:HG2	3:C:34:ARG:N	2.27	0.49
4:D:51:LEU:HD12	4:D:56:SER:HA	1.93	0.49
5:E:21:MET:HB2	5:E:186:TYR:CE1	2.47	0.49
7:G:87:VAL:HG21	7:G:103:VAL:HG11	1.94	0.49
7:G:145:LEU:CG	7:G:146:LYS:H	2.26	0.49
11:K:10:PHE:N	11:K:10:PHE:HD2	2.10	0.49
1:M:90:VAL:CG1	1:M:298:GLN:NE2	2.75	0.49
1:M:377:TYR:OH	1:M:499:ARG:HD2	2.11	0.49
1:M:854:ASP:CG	1:M:856:THR:HG22	2.32	0.49
1:M:1321:ALA:HB1	5:Q:140:VAL:HG11	1.93	0.49
2:N:1017:ILE:HB	2:N:1018:PRO:HD3	1.94	0.49
2:N:1073:TYR:N	2:N:1073:TYR:CD1	2.80	0.49
2:N:1130:PHE:O	2:N:1131:GLY:O	2.31	0.49
2:N:1159:ARG:HG3	2:N:1193:GLN:HE21	1.77	0.49
3:O:33:ARG:HG2	3:O:34:ARG:N	2.28	0.49
5:Q:84:GLU:O	5:Q:86:SER:N	2.40	0.49
9:U:106:CYS:SG	9:U:108:LYS:N	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:W:21:ILE:HG23	11:W:31:ILE:CG1	2.42	0.49
1:A:630:LEU:HA	1:A:633:THR:HG22	1.95	0.49
1:A:853:TYR:CD2	1:A:1062:PRO:HB2	2.47	0.49
1:A:870:GLY:O	1:A:871:GLU:HB2	2.12	0.49
1:A:930:LEU:HD23	1:A:985:ILE:HG21	1.94	0.49
1:A:1410:GLU:CD	1:A:1410:GLU:N	2.65	0.49
2:B:439:LEU:O	2:B:440:ALA:HB3	2.12	0.49
2:B:824:ILE:HG12	10:J:47:ARG:NH1	2.26	0.49
9:I:106:CYS:SG	9:I:108:LYS:N	2.85	0.49
11:K:21:ILE:HG23	11:K:31:ILE:CG1	2.42	0.49
12:L:61:ALA:O	12:L:62:ARG:O	2.30	0.49
1:M:19:PHE:O	1:M:1419:ALA:HA	2.13	0.49
1:M:101:LYS:HA	1:M:104:GLU:OE1	2.12	0.49
1:M:135:PHE:HB2	1:M:224:GLY:H	1.77	0.49
1:M:266:LYS:HE2	1:M:323:VAL:HG21	1.95	0.49
1:M:286:PRO:O	1:M:288:HIS:N	2.45	0.49
1:M:418:TYR:O	1:M:419:HIS:C	2.50	0.49
1:M:542:ILE:HD13	1:M:550:MET:HE1	1.94	0.49
1:M:853:TYR:CD1	6:R:136:ARG:HB3	2.47	0.49
1:M:874:LEU:C	1:M:1060:VAL:HG23	2.32	0.49
2:N:705:GLU:HG3	2:N:706:ASP:H	1.77	0.49
2:N:1106:ARG:HD3	2:N:1126:GLY:O	2.12	0.49
7:S:122:ASN:OD1	7:S:125:ASN:HB3	2.13	0.49
1:A:40:ILE:HG22	1:A:41:MET:HG3	1.94	0.49
1:A:377:TYR:OH	1:A:499:ARG:HD2	2.11	0.49
1:A:900:VAL:CG2	1:A:1031:ARG:HG2	2.41	0.49
1:A:1172:VAL:HG12	1:A:1176:PHE:CE1	2.47	0.49
1:A:1437:ALA:O	1:A:1439:MET:N	2.45	0.49
2:B:112:SER:HB2	2:B:161:VAL:O	2.12	0.49
2:B:1130:PHE:O	2:B:1131:GLY:O	2.31	0.49
3:C:92:ASP:OD1	3:C:122:SER:HB2	2.12	0.49
4:D:53:LEU:HD12	4:D:147:SER:HB2	1.93	0.49
5:E:194:VAL:HG12	5:E:195:VAL:N	2.27	0.49
1:M:147:VAL:O	1:M:149:GLU:N	2.44	0.49
1:M:253:MET:O	1:M:254:ASP:CB	2.59	0.49
1:M:608:ILE:HG12	1:M:613:VAL:HA	1.94	0.49
1:M:630:LEU:CA	1:M:633:THR:HG22	2.43	0.49
1:M:1335:PHE:CE1	1:M:1351:LEU:HD13	2.47	0.49
1:M:1444:PHE:CD1	1:M:1444:PHE:C	2.86	0.49
2:N:196:ILE:HD11	2:N:454:LEU:HD23	1.94	0.49
2:N:231:ILE:CG2	2:N:245:MET:HB3	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1001:PHE:O	2:N:1072:MET:HA	2.12	0.49
2:N:1007:VAL:HG22	2:N:1008:PRO:CD	2.27	0.49
3:O:65:ARG:HH21	10:V:5:VAL:H	1.60	0.49
3:O:174:SER:O	3:O:175:ALA:HB3	2.13	0.49
4:P:41:HIS:HB2	7:S:73:LYS:HZ2	1.74	0.49
7:S:80:LYS:HE2	7:S:80:LYS:H	1.76	0.49
7:S:117:ASP:C	7:S:119:LEU:H	2.16	0.49
7:S:145:LEU:CG	7:S:146:LYS:H	2.26	0.49
11:W:6:ARG:O	11:W:9:LEU:HG	2.13	0.49
1:A:226:ASN:ND2	1:A:229:TYR:H	2.05	0.49
1:A:853:TYR:CD1	6:F:136:ARG:HB3	2.47	0.49
2:B:744:HIS:O	2:B:747:MET:HB2	2.13	0.49
2:B:812:LEU:C	2:B:814:PHE:N	2.66	0.49
4:D:105:THR:OG1	7:G:105:PRO:HD3	2.13	0.49
5:E:152:HIS:O	5:E:153:ILE:CG1	2.54	0.49
6:F:81:THR:HB	6:F:136:ARG:HH11	1.78	0.49
7:G:117:ASP:C	7:G:119:LEU:H	2.16	0.49
8:H:25:ARG:HA	8:H:41:ASP:HA	1.95	0.49
8:H:51:GLN:O	8:H:52:ASP:HB2	2.12	0.49
1:M:815:PHE:O	1:M:818:ALA:N	2.45	0.49
1:M:870:GLY:O	1:M:871:GLU:HB2	2.12	0.49
2:N:206:GLN:NE2	2:N:206:GLN:HA	2.26	0.49
2:N:280:ALA:CA	2:N:322:ALA:HB1	2.42	0.49
2:N:613:ARG:NH2	9:U:89:GLN:NE2	2.61	0.49
2:N:768:THR:O	2:N:771:SER:HB2	2.13	0.49
2:N:980:PHE:CA	2:N:1095:LEU:HD13	2.43	0.49
6:R:97:ARG:HG2	6:R:130:ILE:HG23	1.93	0.49
8:T:51:GLN:O	8:T:52:ASP:HB2	2.13	0.49
1:A:55:ASP:O	1:A:57:LYS:N	2.46	0.49
1:A:336:ARG:HH22	2:B:1114:LEU:HD21	1.78	0.49
1:A:1221:VAL:HG11	1:A:1274:ILE:CD1	2.39	0.49
2:B:1106:ARG:HD3	2:B:1126:GLY:O	2.12	0.49
2:B:1135:ARG:O	2:B:1136:ASP:C	2.51	0.49
2:B:1176:LYS:C	2:B:1178:ASN:N	2.66	0.49
3:C:170:TRP:O	3:C:171:SER:C	2.51	0.49
3:C:242:GLN:C	3:C:244:PHE:N	2.66	0.49
5:E:148:LEU:O	5:E:150:PRO:HD3	2.13	0.49
11:K:6:ARG:O	11:K:9:LEU:HG	2.13	0.49
1:M:377:TYR:CZ	1:M:499:ARG:HD2	2.48	0.49
1:M:900:VAL:CG2	1:M:1031:ARG:HG2	2.41	0.49
1:M:1266:ILE:O	1:M:1266:ILE:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:573:ILE:O	2:N:579:TRP:HD1	1.95	0.49
2:N:782:LEU:CD1	2:N:788:ARG:NH1	2.75	0.49
2:N:801:LYS:O	10:V:51:THR:CG2	2.56	0.49
2:N:816:GLU:O	2:N:817:LEU:HD23	2.13	0.49
2:N:1114:LEU:CD1	2:N:1202:LEU:CD1	2.88	0.49
5:Q:194:VAL:HG12	5:Q:195:VAL:N	2.27	0.49
7:S:35:GLU:OE2	7:S:48:VAL:HG23	2.12	0.49
11:W:10:PHE:N	11:W:10:PHE:HD2	2.10	0.49
1:A:19:PHE:O	1:A:1419:ALA:HA	2.13	0.49
1:A:64:ASN:O	1:A:65:PHE:C	2.51	0.49
1:A:135:PHE:HB2	1:A:224:GLY:H	1.77	0.49
1:A:333:LYS:HA	1:A:338:ARG:HD2	1.94	0.49
1:A:344:LYS:HE3	2:B:1151:LEU:HA	1.94	0.49
1:A:377:TYR:CZ	1:A:499:ARG:HD2	2.48	0.49
1:A:439:ASP:O	1:A:440:ASP:HB2	2.12	0.49
1:A:785:LEU:HD11	1:A:812:GLN:HA	1.94	0.49
1:A:822:ARG:CG	2:B:506:GLN:HA	2.43	0.49
1:A:1444:PHE:HA	6:F:137:TYR:CD1	2.48	0.49
2:B:980:PHE:CA	2:B:1095:LEU:HD13	2.43	0.49
10:J:38:LEU:O	10:J:39:LYS:CB	2.61	0.49
1:M:1401:MET:HB2	1:M:1429:GLU:OE2	2.12	0.49
2:N:744:HIS:O	2:N:747:MET:HB2	2.13	0.49
2:N:834:ASN:O	2:N:1013:ASN:HB2	2.13	0.49
5:Q:21:MET:HB2	5:Q:186:TYR:CE1	2.47	0.49
8:T:4:ALA:HA	8:T:60:ALA:HB2	1.95	0.49
8:T:138:ASN:O	8:T:139:LEU:CB	2.61	0.49
10:V:43:TYR:H	10:V:43:TYR:HD2	1.58	0.49
1:A:98:LYS:O	1:A:99:ILE:C	2.50	0.49
1:A:630:LEU:CA	1:A:633:THR:HG22	2.43	0.49
1:A:1276:LEU:HD12	1:A:1276:LEU:N	2.28	0.49
1:A:1444:PHE:HD1	1:A:1444:PHE:C	2.16	0.49
2:B:18:TRP:HA	2:B:18:TRP:CE3	2.48	0.49
2:B:777:ALA:CB	2:B:1093:GLN:HB3	2.42	0.49
2:B:834:ASN:O	2:B:1013:ASN:HB2	2.13	0.49
2:B:976:ILE:HA	2:B:990:ILE:CG2	2.43	0.49
8:H:36:ILE:CG1	8:H:36:ILE:CA	2.82	0.49
8:H:138:ASN:O	8:H:139:LEU:CB	2.61	0.49
9:I:80:SER:HB2	9:I:103:CYS:SG	2.53	0.49
12:L:57:VAL:HG23	12:L:58:ILE:H	1.77	0.49
1:M:362:LEU:HA	1:M:472:ASN:HD22	1.77	0.49
1:M:476:THR:CG2	1:M:477:SER:H	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:853:TYR:CD2	1:M:1062:PRO:HB2	2.47	0.49
2:N:371:LEU:O	2:N:371:LEU:HD12	2.12	0.49
5:Q:115:ILE:HG22	5:Q:119:ALA:HB3	1.94	0.49
6:R:81:THR:HB	6:R:136:ARG:HH11	1.78	0.49
1:A:854:ASP:OD1	1:A:856:THR:N	2.46	0.48
1:A:902:LEU:HD22	1:A:920:ILE:HG22	1.95	0.48
1:A:1444:PHE:HA	6:F:137:TYR:HD1	1.77	0.48
1:A:1444:PHE:C	1:A:1444:PHE:CD1	2.86	0.48
2:B:371:LEU:O	2:B:371:LEU:HD12	2.12	0.48
2:B:421:ILE:O	2:B:425:MET:HG3	2.13	0.48
2:B:768:THR:O	2:B:771:SER:HB2	2.13	0.48
2:B:816:GLU:O	2:B:817:LEU:HD23	2.13	0.48
2:B:1159:ARG:HG3	2:B:1193:GLN:HE21	1.77	0.48
4:D:158:THR:HG22	4:D:159:LEU:HD23	1.94	0.48
5:E:108:ILE:O	5:E:108:ILE:HG22	2.12	0.48
6:F:105:ALA:HB1	6:F:106:PRO:CD	2.43	0.48
7:G:89:ALA:CB	7:G:103:VAL:CA	2.91	0.48
8:H:4:ALA:HA	8:H:60:ALA:HB2	1.95	0.48
1:M:382:THR:O	1:M:384:TYR:N	2.45	0.48
1:M:601:PRO:HG2	1:M:602:LYS:H	1.77	0.48
1:M:702:GLU:O	1:M:703:LEU:HG	2.13	0.48
2:N:288:GLU:C	2:N:291:GLN:HB2	2.34	0.48
2:N:519:GLU:HB2	2:N:752:ALA:HB3	1.94	0.48
2:N:824:ILE:HG12	10:V:47:ARG:NH1	2.26	0.48
2:N:1130:PHE:O	2:N:1130:PHE:CD2	2.66	0.48
2:N:1156:ASP:HB3	2:N:1197:PRO:HA	1.95	0.48
3:O:5:PRO:HB3	3:O:24:VAL:CG1	2.36	0.48
3:O:44:ALA:CA	3:O:71:LEU:HD12	2.40	0.48
3:O:170:TRP:O	3:O:171:SER:C	2.51	0.48
7:S:87:VAL:HG21	7:S:103:VAL:HG11	1.94	0.48
8:T:25:ARG:HA	8:T:41:ASP:HA	1.95	0.48
9:U:80:SER:HB2	9:U:103:CYS:SG	2.53	0.48
10:V:23:ARG:C	10:V:25:LEU:N	2.67	0.48
1:A:266:LYS:HE2	1:A:323:VAL:CG2	2.43	0.48
2:B:33:GLN:HG3	2:B:34:GLN:N	2.24	0.48
2:B:231:ILE:CG2	2:B:245:MET:HB3	2.42	0.48
2:B:370:PHE:C	2:B:372:GLY:N	2.65	0.48
2:B:572:ARG:O	2:B:616:GLU:HA	2.13	0.48
3:C:9:ILE:H	3:C:9:ILE:HG13	1.45	0.48
7:G:35:GLU:OE2	7:G:48:VAL:HG23	2.12	0.48
7:G:35:GLU:CG	7:G:48:VAL:HG23	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:44:CYS:O	10:J:47:ARG:HG3	2.13	0.48
1:M:574:THR:O	1:M:577:GLN:HB2	2.13	0.48
1:M:630:LEU:HA	1:M:633:THR:HG22	1.95	0.48
1:M:854:ASP:OD1	1:M:856:THR:N	2.46	0.48
1:M:869:TYR:HE1	1:M:1066:VAL:CG1	2.26	0.48
1:M:874:LEU:C	1:M:1060:VAL:CG2	2.81	0.48
1:M:999:LEU:HD13	1:M:1020:PHE:CE2	2.47	0.48
1:M:1283:SER:O	1:M:1284:LYS:C	2.51	0.48
2:N:777:ALA:CB	2:N:1093:GLN:HB3	2.42	0.48
2:N:810:GLU:HA	2:N:815:ARG:NH1	2.16	0.48
2:N:1135:ARG:O	2:N:1136:ASP:C	2.51	0.48
6:R:76:LYS:O	6:R:79:ARG:HD3	2.13	0.48
1:A:24:PRO:HD2	1:A:234:TRP:CD1	2.47	0.48
1:A:147:VAL:O	1:A:149:GLU:HG3	2.13	0.48
1:A:244:PRO:HB2	1:A:245:PRO:HD2	1.94	0.48
2:B:196:ILE:HD11	2:B:454:LEU:HD23	1.94	0.48
2:B:463:LYS:C	2:B:465:ALA:H	2.16	0.48
2:B:654:LYS:HD3	2:B:676:TYR:CE2	2.47	0.48
2:B:1073:TYR:N	2:B:1073:TYR:CD1	2.81	0.48
2:B:1130:PHE:O	2:B:1130:PHE:CD2	2.66	0.48
2:B:1135:ARG:HG2	2:B:1139:ILE:HD11	1.95	0.48
3:C:99:GLU:CG	3:C:121:VAL:HG22	2.41	0.48
4:D:94:SER:O	4:D:96:ALA:N	2.45	0.48
1:M:266:LYS:HE2	1:M:323:VAL:CG2	2.43	0.48
1:M:948:VAL:HG13	5:Q:200:ARG:HB3	1.95	0.48
2:N:1100:ASP:OD2	11:W:1:MET:CB	2.62	0.48
5:Q:108:ILE:HG22	5:Q:108:ILE:O	2.12	0.48
5:Q:148:LEU:O	5:Q:150:PRO:HD3	2.13	0.48
10:V:44:CYS:O	10:V:47:ARG:HG3	2.14	0.48
12:X:57:VAL:HG23	12:X:58:ILE:H	1.77	0.48
1:A:316:LEU:CD1	2:B:464:LYS:CB	2.80	0.48
1:A:549:ASN:HD21	11:K:47:ARG:NH2	2.12	0.48
1:A:667:ILE:HD12	1:A:668:GLY:N	2.27	0.48
1:A:874:LEU:C	1:A:1060:VAL:CG2	2.82	0.48
1:A:899:TYR:HB2	1:A:934:TYR:CE1	2.48	0.48
1:A:1144:THR:O	1:A:1147:ASN:CG	2.52	0.48
2:B:609:ILE:HD13	2:B:618:LYS:CB	2.43	0.48
2:B:693:GLU:O	2:B:696:GLU:HB2	2.13	0.48
2:B:825:VAL:CG1	2:B:826:ALA:N	2.76	0.48
3:C:44:ALA:CA	3:C:71:LEU:HD12	2.40	0.48
6:F:76:LYS:O	6:F:79:ARG:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:640:PRO:HG2	1:M:641:LYS:N	2.25	0.48
1:M:651:GLN:HG2	1:M:655:ASN:HD21	1.78	0.48
1:M:823:GLU:O	1:M:826:ILE:HB	2.13	0.48
1:M:1163:THR:CG2	1:M:1165:ILE:H	2.25	0.48
1:M:1207:LYS:O	1:M:1208:GLN:O	2.30	0.48
1:M:1213:GLN:O	1:M:1214:VAL:C	2.51	0.48
2:N:33:GLN:HG3	2:N:34:GLN:N	2.25	0.48
2:N:163:ILE:HG22	2:N:164:MET:N	2.29	0.48
2:N:463:LYS:C	2:N:465:ALA:H	2.16	0.48
2:N:654:LYS:HD3	2:N:676:TYR:CE2	2.48	0.48
2:N:1163:CYS:HB3	2:N:1166:CYS:O	2.12	0.48
5:Q:92:MET:CE	5:Q:119:ALA:HB1	2.42	0.48
1:A:181:LYS:HZ3	1:A:295:GLN:HB3	1.76	0.48
1:A:418:TYR:O	1:A:419:HIS:C	2.50	0.48
1:A:1412:LEU:CD1	2:B:1207:LEU:HD11	2.41	0.48
2:B:288:GLU:C	2:B:291:GLN:HB2	2.34	0.48
2:B:613:ARG:NH2	9:I:89:GLN:NE2	2.61	0.48
3:C:174:SER:O	3:C:175:ALA:HB3	2.13	0.48
10:J:1:MET:H1	10:J:56:ILE:N	2.07	0.48
10:J:23:ARG:C	10:J:25:LEU:N	2.67	0.48
1:M:108:MET:O	1:M:110:CYS:N	2.47	0.48
1:M:549:ASN:HD21	11:W:47:ARG:NH2	2.12	0.48
1:M:899:TYR:HB2	1:M:934:TYR:CE1	2.48	0.48
1:M:930:LEU:HD23	1:M:985:ILE:HG21	1.94	0.48
1:M:943:PHE:CD2	1:M:944:LEU:HD23	2.44	0.48
1:M:1144:THR:O	1:M:1147:ASN:CG	2.52	0.48
1:M:1282:ILE:HD11	1:M:1319:VAL:HG21	1.96	0.48
2:N:797:TYR:O	10:V:1:MET:HG2	2.13	0.48
2:N:847:ASP:C	2:N:849:GLY:N	2.67	0.48
6:R:105:ALA:HB1	6:R:106:PRO:CD	2.43	0.48
1:A:108:MET:O	1:A:110:CYS:N	2.46	0.48
1:A:303:THR:HG22	1:A:304:TYR:H	1.76	0.48
1:A:371:ILE:HD12	1:A:469:PHE:HE2	1.77	0.48
1:A:382:THR:O	1:A:384:TYR:N	2.45	0.48
1:A:439:ASP:OD1	1:A:463:VAL:HG23	2.14	0.48
1:A:601:PRO:HG2	1:A:602:LYS:H	1.78	0.48
1:A:852:HIS:HB2	1:A:856:THR:HG23	1.96	0.48
1:A:999:LEU:HD13	1:A:1020:PHE:CE2	2.48	0.48
2:B:302:MET:O	2:B:305:MET:HB2	2.14	0.48
2:B:401:LEU:O	2:B:405:LEU:HG	2.14	0.48
3:C:17:VAL:HG23	3:C:240:ALA:HB1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:65:ARG:HH21	10:J:5:VAL:H	1.60	0.48
7:G:27:ARG:CG	7:G:54:ILE:HD12	2.44	0.48
1:M:100:LYS:HG3	1:M:182:LEU:HD22	1.95	0.48
1:M:114:LEU:HD13	1:M:172:GLN:NE2	2.28	0.48
1:M:244:PRO:HB2	1:M:245:PRO:HD2	1.94	0.48
1:M:439:ASP:O	1:M:440:ASP:HB2	2.12	0.48
1:M:1448:ILE:HG12	7:S:18:PHE:CE2	2.49	0.48
2:N:572:ARG:O	2:N:616:GLU:HA	2.14	0.48
2:N:609:ILE:HD13	2:N:618:LYS:CB	2.43	0.48
2:N:825:VAL:CG1	2:N:826:ALA:N	2.76	0.48
2:N:983:ARG:HD2	2:N:1091:TYR:CD2	2.46	0.48
3:O:92:ASP:OD1	3:O:122:SER:HB2	2.12	0.48
3:O:142:ILE:H	10:V:16:ASP:HB3	1.78	0.48
10:V:13:VAL:C	10:V:14:VAL:CG2	2.82	0.48
10:V:38:LEU:O	10:V:39:LYS:CB	2.61	0.48
11:W:40:HIS:O	11:W:41:THR:C	2.52	0.48
1:A:22:LEU:HB2	2:B:1211:ASN:ND2	2.29	0.48
1:A:263:LEU:C	1:A:265:HIS:N	2.67	0.48
1:A:310:ALA:O	1:A:312:GLN:N	2.46	0.48
1:A:869:TYR:HE1	1:A:1066:VAL:CG1	2.26	0.48
1:A:1266:ILE:HG22	1:A:1266:ILE:O	2.13	0.48
1:A:1401:MET:HB2	1:A:1429:GLU:OE2	2.12	0.48
2:B:395:GLY:H	2:B:510:THR:HG21	1.79	0.48
2:B:876:LYS:HD2	2:B:893:LEU:O	2.13	0.48
4:D:95:GLY:O	4:D:96:ALA:CB	2.58	0.48
5:E:115:ILE:HG22	5:E:119:ALA:HB3	1.94	0.48
8:H:15:VAL:HA	8:H:26:ILE:HG12	1.95	0.48
1:M:413:ARG:NH2	2:N:1108:ARG:NH2	2.59	0.48
1:M:630:LEU:C	1:M:633:THR:HG22	2.34	0.48
1:M:902:LEU:HD22	1:M:920:ILE:HG22	1.94	0.48
1:M:1006:ASN:O	1:M:1010:LYS:CG	2.62	0.48
1:M:1109:VAL:O	1:M:1109:VAL:HG12	2.14	0.48
1:M:1129:ASP:CB	1:M:1132:LYS:HB3	2.42	0.48
2:N:219:LYS:O	2:N:220:ALA:O	2.32	0.48
2:N:439:LEU:O	2:N:440:ALA:HB3	2.12	0.48
2:N:976:ILE:HA	2:N:990:ILE:CG2	2.43	0.48
2:N:1154:ALA:O	2:N:1155:SER:HB2	2.14	0.48
7:S:27:ARG:CG	7:S:54:ILE:HD12	2.44	0.48
1:A:93:ILE:HG21	1:A:305:MET:HB2	1.95	0.48
1:A:306:ASP:CG	1:A:327:ARG:HD3	2.34	0.48
1:A:362:LEU:HA	1:A:472:ASN:HD22	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:429:TYR:H	1:A:429:TYR:HD1	1.62	0.48
1:A:1122:LEU:O	1:A:1326:ASP:HB2	2.13	0.48
1:A:1156:TYR:CE2	1:A:1158:PRO:HD3	2.49	0.48
2:B:797:TYR:O	10:J:1:MET:HG2	2.13	0.48
2:B:822:ASN:O	10:J:47:ARG:NH1	2.46	0.48
10:J:13:VAL:C	10:J:14:VAL:CG2	2.82	0.48
1:M:22:LEU:HB2	2:N:1211:ASN:ND2	2.29	0.48
1:M:429:TYR:H	1:M:429:TYR:HD1	1.62	0.48
1:M:786:PRO:HG2	2:N:700:ILE:HD12	1.95	0.48
1:M:1276:LEU:N	1:M:1276:LEU:HD12	2.28	0.48
1:M:1283:SER:O	1:M:1284:LYS:O	2.31	0.48
2:N:16:ASP:O	2:N:18:TRP:N	2.47	0.48
2:N:693:GLU:O	2:N:696:GLU:HB2	2.13	0.48
5:Q:80:GLU:O	5:Q:110:ILE:CG2	2.31	0.48
1:A:356:GLY:HA2	1:A:471:LEU:O	2.14	0.48
1:A:1283:SER:O	1:A:1284:LYS:C	2.51	0.48
2:B:112:SER:HB3	2:B:162:PRO:HA	1.96	0.48
2:B:889:THR:C	2:B:910:ILE:HG22	2.29	0.48
3:C:164:ALA:CB	3:C:171:SER:CB	2.85	0.48
7:G:39:THR:O	7:G:43:GLY:N	2.33	0.48
7:G:122:ASN:OD1	7:G:125:ASN:HB3	2.13	0.48
1:M:93:ILE:HG21	1:M:305:MET:HB2	1.95	0.48
1:M:355:SER:HA	1:M:483:PHE:CD2	2.49	0.48
1:M:439:ASP:OD1	1:M:463:VAL:HG23	2.14	0.48
1:M:456:MET:HE1	2:N:1134:GLU:HB3	1.96	0.48
1:M:566:ILE:HG22	1:M:570:LYS:O	2.14	0.48
1:M:852:HIS:HB2	1:M:856:THR:HG23	1.96	0.48
1:M:1063:GLY:CA	1:M:1440:GLY:HA2	2.43	0.48
2:N:18:TRP:HA	2:N:18:TRP:CE3	2.48	0.48
2:N:112:SER:HB3	2:N:162:PRO:HA	1.96	0.48
2:N:229:ALA:O	2:N:247:ILE:HG22	2.14	0.48
2:N:370:PHE:C	2:N:372:GLY:N	2.65	0.48
2:N:421:ILE:O	2:N:425:MET:HG3	2.13	0.48
2:N:822:ASN:O	10:V:47:ARG:NH1	2.46	0.48
2:N:1187:ASN:OD1	2:N:1188:LYS:N	2.47	0.48
5:Q:127:SER:HA	5:Q:128:PRO:C	2.34	0.48
7:S:35:GLU:CG	7:S:48:VAL:HG23	2.43	0.48
10:V:7:CYS:CB	10:V:48:MET:HE3	2.44	0.48
12:X:32:THR:HG22	12:X:33:CYS:H	1.79	0.48
1:A:100:LYS:HG3	1:A:182:LEU:HD22	1.95	0.48
1:A:144:THR:O	1:A:146:MET:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:SER:HA	1:A:483:PHE:CD2	2.49	0.48
1:A:524:ILE:HD12	1:A:623:VAL:HG21	1.96	0.48
1:A:702:GLU:O	1:A:703:LEU:HG	2.13	0.48
1:A:823:GLU:O	1:A:826:ILE:HB	2.13	0.48
1:A:827:ASP:C	1:A:829:ALA:N	2.67	0.48
1:A:948:VAL:HG13	5:E:200:ARG:HB3	1.95	0.48
1:A:1337:GLU:O	1:A:1338:ILE:C	2.52	0.48
2:B:782:LEU:CD1	2:B:788:ARG:NH1	2.75	0.48
2:B:1100:ASP:OD2	11:K:1:MET:CB	2.62	0.48
9:I:55:THR:O	9:I:56:ALA:O	2.32	0.48
1:M:34:LYS:HD3	1:M:34:LYS:H	1.78	0.48
1:M:344:LYS:HE3	2:N:1151:LEU:HA	1.94	0.48
1:M:356:GLY:HA2	1:M:471:LEU:O	2.14	0.48
1:M:513:VAL:HA	1:M:520:PRO:HA	1.96	0.48
1:M:1122:LEU:O	1:M:1326:ASP:HB2	2.13	0.48
1:M:1412:LEU:CD1	2:N:1207:LEU:HD11	2.41	0.48
1:M:1444:PHE:C	1:M:1444:PHE:HD1	2.16	0.48
2:N:235:LEU:HD11	2:N:359:GLN:HE21	1.78	0.48
2:N:607:SER:HB2	2:N:691:ASP:OD1	2.14	0.48
3:O:17:VAL:HG23	3:O:240:ALA:HB1	1.96	0.48
9:U:55:THR:O	9:U:56:ALA:O	2.32	0.48
1:A:265:HIS:O	1:A:268:SER:N	2.47	0.47
1:A:383:GLN:HB3	1:A:429:TYR:CE2	2.41	0.47
1:A:1116:PRO:O	1:A:1117:ALA:O	2.32	0.47
1:A:1163:THR:CG2	1:A:1164:VAL:N	2.77	0.47
1:A:1241:ARG:NH2	1:A:1243:ARG:HH22	2.03	0.47
2:B:163:ILE:HG22	2:B:164:MET:N	2.29	0.47
2:B:301:GLN:O	2:B:304:GLU:HB3	2.14	0.47
5:E:160:LYS:C	5:E:162:GLN:N	2.67	0.47
6:F:111:ILE:C	6:F:113:GLY:H	2.18	0.47
1:M:747:MET:HE1	2:N:1014:PRO:O	2.14	0.47
1:M:1222:PHE:CE2	1:M:1266:ILE:HG23	2.49	0.47
2:N:86:ARG:HB3	2:N:87:PRO:CD	2.44	0.47
2:N:195:VAL:O	2:N:195:VAL:HG12	2.14	0.47
2:N:302:MET:O	2:N:305:MET:HB2	2.14	0.47
2:N:401:LEU:O	2:N:405:LEU:HG	2.14	0.47
3:O:259:LEU:CD1	11:W:88:GLU:HA	2.44	0.47
4:P:25:ALA:HB3	4:P:27:LEU:CG	2.44	0.47
10:V:27:GLU:C	10:V:29:LYS:N	2.68	0.47
1:A:651:GLN:HG2	1:A:655:ASN:HD21	1.78	0.47
1:A:762:MET:HA	1:A:805:TYR:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1006:ASN:O	1:A:1010:LYS:CG	2.62	0.47
1:A:1015:ASN:O	1:A:1017:THR:N	2.42	0.47
1:A:1109:VAL:O	1:A:1109:VAL:HG12	2.14	0.47
2:B:628:ARG:NH1	2:B:742:GLU:OE2	2.45	0.47
2:B:1198:TYR:CD2	2:B:1198:TYR:C	2.88	0.47
1:M:306:ASP:CG	1:M:327:ARG:HD3	2.34	0.47
1:M:1123:ASP:O	1:M:1124:ARG:C	2.53	0.47
1:M:1337:GLU:O	1:M:1338:ILE:C	2.53	0.47
2:N:1201:LYS:CE	2:N:1205:GLN:OE1	2.62	0.47
3:O:129:VAL:HG22	3:O:130:GLY:N	2.29	0.47
3:O:148:ARG:HG2	3:O:149:ASN:H	1.78	0.47
5:Q:59:PHE:C	5:Q:59:PHE:CD2	2.87	0.47
5:Q:89:ILE:HG22	5:Q:118:SER:C	2.23	0.47
8:T:90:ASP:O	8:T:92:TYR:N	2.41	0.47
1:A:12:ARG:HG3	2:B:1192:TYR:CD2	2.48	0.47
1:A:640:PRO:HG2	1:A:641:LYS:N	2.25	0.47
1:A:1282:ILE:HD11	1:A:1319:VAL:HG21	1.96	0.47
1:A:1388:THR:O	1:A:1391:GLY:N	2.48	0.47
2:B:195:VAL:O	2:B:195:VAL:HG12	2.14	0.47
2:B:755:ILE:HG22	2:B:809:MET:HE2	1.95	0.47
2:B:797:TYR:HB3	2:B:798:TYR:HD2	1.79	0.47
3:C:129:VAL:HG22	3:C:130:GLY:N	2.28	0.47
3:C:142:ILE:H	10:J:16:ASP:HB3	1.78	0.47
4:D:25:ALA:HB3	4:D:27:LEU:CG	2.45	0.47
10:J:23:ARG:O	10:J:25:LEU:N	2.48	0.47
1:M:144:THR:O	1:M:146:MET:HG3	2.14	0.47
1:M:475:VAL:O	1:M:475:VAL:HG22	2.14	0.47
1:M:667:ILE:HD12	1:M:668:GLY:N	2.27	0.47
1:M:827:ASP:C	1:M:829:ALA:N	2.67	0.47
1:M:846:LEU:O	1:M:847:GLU:C	2.53	0.47
1:M:1061:HIS:ND1	6:R:86:THR:HA	2.29	0.47
2:N:628:ARG:NH1	2:N:742:GLU:OE2	2.45	0.47
2:N:880:ALA:HB3	2:N:934:LYS:HD2	1.97	0.47
2:N:1168:LEU:HD13	2:N:1208:MET:HE3	1.96	0.47
1:A:566:ILE:HG22	1:A:570:LYS:O	2.14	0.47
1:A:710:THR:HG23	9:I:94:ASP:HA	1.96	0.47
1:A:1268:ALA:O	1:A:1271:LEU:N	2.47	0.47
2:B:83:TYR:N	2:B:83:TYR:CD1	2.83	0.47
2:B:219:LYS:O	2:B:220:ALA:O	2.32	0.47
2:B:1114:LEU:O	2:B:1198:TYR:CE2	2.68	0.47
2:B:1154:ALA:O	2:B:1155:SER:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1187:ASN:OD1	2:B:1188:LYS:N	2.47	0.47
3:C:168:ALA:C	3:C:170:TRP:H	2.18	0.47
10:J:52:HIS:NE2	10:J:54:ASP:HA	2.30	0.47
1:M:263:LEU:C	1:M:265:HIS:N	2.67	0.47
1:M:762:MET:HA	1:M:805:TYR:HB2	1.96	0.47
1:M:931:ASN:O	1:M:932:SER:C	2.53	0.47
1:M:1156:TYR:CE2	1:M:1158:PRO:HD3	2.49	0.47
2:N:1013:ASN:OD1	2:N:1015:HIS:CD2	2.67	0.47
5:Q:142:ASN:ND2	5:Q:144:THR:OG1	2.48	0.47
8:T:58:THR:HB	8:T:142:LEU:HB2	1.96	0.47
1:A:34:LYS:HD3	1:A:34:LYS:H	1.78	0.47
1:A:591:ARG:HB2	1:A:606:MET:HB3	1.95	0.47
1:A:827:ASP:C	1:A:829:ALA:H	2.18	0.47
1:A:846:LEU:O	1:A:847:GLU:C	2.53	0.47
1:A:1342:LEU:HD23	5:E:143:ILE:HG22	1.96	0.47
2:B:16:ASP:O	2:B:18:TRP:N	2.47	0.47
2:B:489:ARG:NH1	2:B:532:LEU:HB2	2.30	0.47
2:B:491:THR:HG21	2:B:530:LYS:HB2	1.96	0.47
2:B:562:TYR:CE1	2:B:582:ILE:HG21	2.49	0.47
2:B:1201:LYS:CE	2:B:1205:GLN:OE1	2.62	0.47
4:D:141:GLU:C	4:D:143:ALA:N	2.67	0.47
4:D:182:GLU:O	4:D:183:ASP:C	2.53	0.47
5:E:127:SER:HA	5:E:128:PRO:C	2.34	0.47
5:E:181:ASP:HB3	5:E:184:ALA:CB	2.45	0.47
8:H:38:LEU:HD12	8:H:123:CYS:O	2.14	0.47
12:L:32:THR:HG22	12:L:33:CYS:H	1.79	0.47
1:M:265:HIS:O	1:M:268:SER:N	2.47	0.47
1:M:699:GLN:NE2	9:U:99:LEU:HD21	2.30	0.47
1:M:1197:LEU:HD11	1:M:1270:MET:HE3	1.95	0.47
1:M:1268:ALA:O	1:M:1271:LEU:N	2.47	0.47
2:N:305:MET:O	2:N:308:PRO:HD2	2.15	0.47
2:N:1135:ARG:HG2	2:N:1139:ILE:HD11	1.96	0.47
2:N:1176:LYS:C	2:N:1178:ASN:N	2.66	0.47
3:O:168:ALA:C	3:O:170:TRP:H	2.18	0.47
8:T:40:LEU:HD12	8:T:41:ASP:N	2.30	0.47
1:A:167:GLY:O	1:A:168:CYS:SG	2.72	0.47
1:A:786:PRO:HG2	2:B:700:ILE:HD12	1.95	0.47
1:A:931:ASN:O	1:A:932:SER:C	2.53	0.47
1:A:1263:LEU:HG	1:A:1263:LEU:O	2.15	0.47
2:B:199:SER:OG	2:B:201:LYS:NZ	2.48	0.47
2:B:224:PRO:HG2	2:B:225:ILE:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:607:SER:HB2	2:B:691:ASP:OD1	2.14	0.47
2:B:810:GLU:CB	2:B:815:ARG:HH22	2.23	0.47
2:B:1013:ASN:OD1	2:B:1015:HIS:CD2	2.67	0.47
5:E:81:PHE:CD1	5:E:81:PHE:N	2.83	0.47
8:H:40:LEU:HD12	8:H:41:ASP:N	2.30	0.47
8:H:59:LEU:O	8:H:60:ALA:HB3	2.14	0.47
1:M:371:ILE:HD12	1:M:469:PHE:HE2	1.77	0.47
1:M:666:GLY:O	1:M:668:GLY:N	2.48	0.47
1:M:853:TYR:CE2	1:M:1062:PRO:HB2	2.50	0.47
1:M:1015:ASN:O	1:M:1017:THR:N	2.43	0.47
1:M:1342:LEU:HD23	5:Q:143:ILE:HG22	1.96	0.47
2:N:279:ARG:NH1	2:N:316:ILE:O	2.48	0.47
2:N:416:LYS:HB2	2:N:416:LYS:HZ2	1.76	0.47
2:N:491:THR:HG21	2:N:530:LYS:HB2	1.96	0.47
2:N:876:LYS:HD2	2:N:893:LEU:O	2.14	0.47
2:N:1159:ARG:NH1	2:N:1159:ARG:CB	2.66	0.47
5:Q:81:PHE:N	5:Q:81:PHE:CD1	2.83	0.47
10:V:1:MET:H1	10:V:56:ILE:N	2.08	0.47
1:A:63:ARG:HA	1:A:74:MET:SD	2.55	0.47
1:A:114:LEU:HD13	1:A:172:GLN:NE2	2.28	0.47
1:A:381:VAL:CG1	1:A:386:ILE:HG12	2.44	0.47
1:A:493:PRO:O	1:A:494:GLN:NE2	2.48	0.47
1:A:513:VAL:HA	1:A:520:PRO:HA	1.96	0.47
1:A:890:SER:HB3	1:A:1300:GLU:HG2	1.96	0.47
1:A:984:THR:HB	1:A:987:GLU:H	1.80	0.47
1:A:1061:HIS:ND1	6:F:86:THR:HA	2.29	0.47
1:A:1123:ASP:O	1:A:1124:ARG:C	2.53	0.47
1:A:1283:SER:O	1:A:1284:LYS:O	2.32	0.47
2:B:56:LEU:HB3	2:B:425:MET:HE1	1.97	0.47
2:B:203:LEU:HD13	2:B:405:LEU:HD12	1.95	0.47
2:B:305:MET:O	2:B:308:PRO:HD2	2.15	0.47
2:B:316:ILE:HG23	2:B:321:VAL:HB	1.97	0.47
2:B:457:GLY:HA2	2:B:472:VAL:O	2.15	0.47
2:B:612:ILE:O	2:B:614:GLU:N	2.47	0.47
2:B:879:ARG:HA	2:B:879:ARG:NE	2.30	0.47
2:B:969:ARG:HG2	2:B:970:THR:N	2.30	0.47
3:C:148:ARG:HG2	3:C:149:ASN:H	1.78	0.47
3:C:259:LEU:CD1	11:K:88:GLU:HA	2.44	0.47
5:E:144:THR:HG21	5:E:186:TYR:CE2	2.50	0.47
5:E:179:ARG:NH2	5:E:191:ARG:HB2	2.29	0.47
7:G:119:LEU:HD12	7:G:131:MET:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:149:GLY:O	7:G:159:ALA:HB1	2.15	0.47
9:I:7:CYS:HB3	9:I:14:LEU:HD21	1.97	0.47
1:M:12:ARG:HG3	2:N:1192:TYR:CD2	2.48	0.47
1:M:55:ASP:O	1:M:57:LYS:N	2.46	0.47
1:M:63:ARG:HA	1:M:74:MET:SD	2.55	0.47
1:M:67:CYS:O	1:M:68:GLN:CB	2.63	0.47
1:M:297:LEU:O	1:M:301:VAL:HG23	2.15	0.47
1:M:383:GLN:HB3	1:M:429:TYR:CE2	2.41	0.47
1:M:397:PRO:HG3	1:M:417:ARG:HB3	1.95	0.47
1:M:493:PRO:O	1:M:494:GLN:NE2	2.48	0.47
1:M:524:ILE:HD12	1:M:623:VAL:HG21	1.97	0.47
1:M:549:ASN:ND2	11:W:47:ARG:HH21	2.13	0.47
1:M:566:ILE:O	1:M:571:PRO:HA	2.14	0.47
1:M:591:ARG:HB2	1:M:606:MET:HB3	1.95	0.47
1:M:1241:ARG:HH12	1:M:1243:ARG:HH12	1.62	0.47
1:M:1275:ALA:C	1:M:1276:LEU:HD12	2.35	0.47
2:N:83:TYR:N	2:N:83:TYR:CD1	2.83	0.47
2:N:215:GLN:O	2:N:229:ALA:HA	2.15	0.47
2:N:244:THR:CG2	2:N:245:MET:N	2.77	0.47
2:N:280:ALA:N	2:N:322:ALA:HB1	2.30	0.47
2:N:301:GLN:O	2:N:304:GLU:HB3	2.14	0.47
2:N:348:ILE:O	2:N:348:ILE:HG22	2.15	0.47
2:N:489:ARG:NH1	2:N:532:LEU:HB2	2.30	0.47
2:N:555:GLY:HA3	2:N:583:HIS:HE1	1.75	0.47
2:N:778:MET:HE2	2:N:1094:ARG:HD3	1.93	0.47
2:N:889:THR:C	2:N:910:ILE:HG22	2.28	0.47
2:N:1198:TYR:C	2:N:1198:TYR:CD2	2.87	0.47
3:O:16:GLU:O	3:O:17:VAL:HG23	2.15	0.47
3:O:112:ASP:HB2	3:O:114:TYR:HE1	1.76	0.47
5:Q:160:LYS:C	5:Q:162:GLN:N	2.67	0.47
5:Q:181:ASP:HB3	5:Q:184:ALA:CB	2.45	0.47
7:S:119:LEU:HD12	7:S:131:MET:O	2.15	0.47
9:U:100:PHE:N	9:U:100:PHE:HD1	2.12	0.47
10:V:23:ARG:O	10:V:25:LEU:N	2.47	0.47
10:V:43:TYR:CD2	10:V:43:TYR:N	2.83	0.47
11:W:63:VAL:O	11:W:63:VAL:HG23	2.15	0.47
1:A:428:GLN:O	1:A:429:TYR:C	2.52	0.47
1:A:467:SER:HA	11:K:2:ASN:HD22	1.79	0.47
1:A:475:VAL:HG22	1:A:475:VAL:O	2.15	0.47
1:A:843:VAL:HG11	2:B:1136:ASP:OD2	2.14	0.47
1:A:1129:ASP:CB	1:A:1132:LYS:HB3	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1275:ALA:C	1:A:1276:LEU:HD12	2.35	0.47
1:A:1352:TYR:HA	1:A:1375:VAL:HG21	1.96	0.47
2:B:279:ARG:NH1	2:B:316:ILE:O	2.48	0.47
2:B:466:MET:C	2:B:468:SER:H	2.18	0.47
5:E:77:LEU:HD21	5:E:79:VAL:CG2	2.44	0.47
8:H:4:ALA:HA	8:H:60:ALA:CB	2.45	0.47
10:J:7:CYS:CB	10:J:48:MET:HE3	2.45	0.47
10:J:27:GLU:C	10:J:29:LYS:N	2.68	0.47
1:M:270:ILE:CD1	1:M:301:VAL:HG22	2.45	0.47
1:M:1116:PRO:O	1:M:1117:ALA:O	2.32	0.47
1:M:1169:PHE:O	1:M:1172:VAL:HG23	2.15	0.47
2:N:457:GLY:HA2	2:N:472:VAL:O	2.15	0.47
2:N:466:MET:C	2:N:468:SER:H	2.18	0.47
2:N:551:LEU:C	2:N:553:GLU:N	2.63	0.47
2:N:827:ILE:O	2:N:827:ILE:HG22	2.14	0.47
6:R:111:ILE:C	6:R:113:GLY:H	2.18	0.47
11:W:7:PHE:HA	11:W:10:PHE:HE2	1.76	0.47
1:A:67:CYS:O	1:A:68:GLN:HB2	2.15	0.47
1:A:297:LEU:O	1:A:301:VAL:HG23	2.15	0.47
1:A:850:MET:CE	1:A:1063:GLY:HA2	2.45	0.47
1:A:1169:PHE:O	1:A:1172:VAL:HG23	2.15	0.47
2:B:302:MET:HE2	2:B:379:LEU:HB2	1.96	0.47
2:B:770:GLN:OE1	2:B:983:ARG:HA	2.15	0.47
2:B:839:MET:HE1	2:B:980:PHE:HB2	1.97	0.47
2:B:1161:HIS:CE1	2:B:1193:GLN:HB2	2.50	0.47
5:E:119:ALA:O	5:E:121:LYS:N	2.48	0.47
7:G:132:SER:HB3	7:G:135:GLU:HB2	1.97	0.47
8:H:58:THR:HB	8:H:142:LEU:HB2	1.96	0.47
10:J:47:ARG:HD2	10:J:47:ARG:C	2.36	0.47
1:M:843:VAL:C	1:M:845:ALA:N	2.68	0.47
1:M:1221:VAL:HG11	1:M:1274:ILE:CD1	2.39	0.47
2:N:549:ASN:C	2:N:551:LEU:H	2.18	0.47
2:N:797:TYR:C	2:N:798:TYR:CD2	2.78	0.47
2:N:839:MET:HE2	2:N:980:PHE:CD1	2.49	0.47
2:N:1031:LEU:HD11	2:N:1042:GLY:HA3	1.96	0.47
2:N:1161:HIS:CE1	2:N:1193:GLN:HB2	2.50	0.47
4:P:182:GLU:O	4:P:183:ASP:C	2.53	0.47
7:S:149:GLY:O	7:S:159:ALA:HB1	2.15	0.47
8:T:15:VAL:HA	8:T:26:ILE:HG12	1.95	0.47
10:V:47:ARG:HD2	10:V:47:ARG:C	2.35	0.47
1:A:397:PRO:HG3	1:A:417:ARG:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:ASN:ND2	11:K:47:ARG:HH21	2.13	0.47
1:A:630:LEU:C	1:A:633:THR:HG22	2.35	0.47
1:A:1215:ALA:O	1:A:1216:ASP:C	2.53	0.47
2:B:702:MET:HA	2:B:702:MET:CE	2.45	0.47
2:B:983:ARG:HD2	2:B:1091:TYR:CD2	2.47	0.47
2:B:1039:GLY:HA2	10:J:50:LEU:HD21	1.96	0.47
4:D:56:SER:O	4:D:60:ILE:HG13	2.15	0.47
4:D:160:ILE:HG22	4:D:160:ILE:O	2.14	0.47
5:E:54:ARG:C	5:E:56:LEU:N	2.69	0.47
1:M:310:ALA:O	1:M:312:GLN:N	2.46	0.47
1:M:601:PRO:HA	8:T:25:ARG:NH1	2.30	0.47
2:N:199:SER:OG	2:N:201:LYS:NZ	2.48	0.47
5:Q:144:THR:HG21	5:Q:186:TYR:CE2	2.50	0.47
7:S:1:MET:HE2	7:S:3:PHE:CE1	2.43	0.47
10:V:52:HIS:NE2	10:V:54:ASP:HA	2.30	0.47
1:A:270:ILE:CD1	1:A:301:VAL:HG22	2.45	0.46
1:A:360:LEU:O	1:A:361:GLU:C	2.53	0.46
1:A:402:GLY:O	1:A:436:HIS:CD2	2.68	0.46
1:A:601:PRO:HA	8:H:25:ARG:NH1	2.30	0.46
1:A:666:GLY:O	1:A:668:GLY:N	2.48	0.46
1:A:689:GLU:C	1:A:691:VAL:H	2.18	0.46
1:A:699:GLN:NE2	9:I:99:LEU:HD21	2.29	0.46
1:A:853:TYR:CE2	1:A:1062:PRO:HB2	2.50	0.46
1:A:1282:ILE:CD1	1:A:1319:VAL:HG21	2.45	0.46
1:A:1343:GLY:O	1:A:1344:ILE:C	2.53	0.46
2:B:86:ARG:HB3	2:B:87:PRO:CD	2.44	0.46
2:B:239:SER:O	2:B:240:ARG:HB2	2.15	0.46
2:B:545:GLU:C	2:B:547:ILE:N	2.69	0.46
2:B:549:ASN:C	2:B:551:LEU:H	2.18	0.46
9:I:100:PHE:N	9:I:100:PHE:HD1	2.12	0.46
10:J:6:ARG:HA	10:J:12:LYS:O	2.15	0.46
1:M:467:SER:HA	11:W:2:ASN:HD22	1.79	0.46
1:M:519:LYS:HB2	1:M:520:PRO:HD2	1.96	0.46
1:M:684:ILE:HG21	1:M:802:GLU:HG3	1.96	0.46
1:M:742:ASN:HD22	1:M:742:ASN:C	2.15	0.46
1:M:1163:THR:CG2	1:M:1164:VAL:N	2.77	0.46
1:M:1195:LEU:HB2	1:M:1263:LEU:HD11	1.96	0.46
1:M:1282:ILE:CD1	1:M:1319:VAL:HG21	2.46	0.46
1:M:1388:THR:O	1:M:1391:GLY:N	2.47	0.46
2:N:203:LEU:HD13	2:N:405:LEU:HD12	1.96	0.46
2:N:286:ASP:HB2	9:U:12:ASN:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:545:GLU:C	2:N:547:ILE:N	2.69	0.46
2:N:702:MET:HA	2:N:702:MET:CE	2.45	0.46
2:N:831:SER:CB	2:N:994:TYR:OH	2.63	0.46
4:P:141:GLU:C	4:P:143:ALA:N	2.67	0.46
9:U:7:CYS:HB3	9:U:14:LEU:HD21	1.97	0.46
1:A:12:ARG:HB2	2:B:1218:THR:HG21	1.97	0.46
1:A:27:ILE:CG1	1:A:239:VAL:HG12	2.44	0.46
1:A:91:PHE:H	1:A:298:GLN:NE2	2.10	0.46
1:A:519:LYS:HB2	1:A:520:PRO:HD2	1.96	0.46
1:A:940:ASP:O	1:A:943:PHE:N	2.48	0.46
1:A:1195:LEU:HB2	1:A:1263:LEU:HD11	1.96	0.46
1:A:1222:PHE:CE2	1:A:1266:ILE:HG23	2.49	0.46
2:B:830:TYR:CZ	2:B:1000:PRO:HB3	2.51	0.46
2:B:1069:PHE:CD1	2:B:1069:PHE:N	2.76	0.46
5:E:59:PHE:C	5:E:59:PHE:CD2	2.87	0.46
5:E:92:MET:HE3	5:E:119:ALA:HB1	1.97	0.46
5:E:142:ASN:ND2	5:E:144:THR:OG1	2.48	0.46
8:H:90:ASP:O	8:H:92:TYR:N	2.41	0.46
11:K:63:VAL:HG23	11:K:63:VAL:O	2.15	0.46
1:M:710:THR:HG23	9:U:94:ASP:HA	1.96	0.46
1:M:850:MET:CE	1:M:1063:GLY:HA2	2.45	0.46
1:M:1352:TYR:HA	1:M:1375:VAL:HG21	1.96	0.46
2:N:354:LEU:N	2:N:355:PRO:CD	2.78	0.46
2:N:562:TYR:CE1	2:N:582:ILE:HG21	2.50	0.46
2:N:969:ARG:HG2	2:N:970:THR:N	2.30	0.46
2:N:1010:LEU:HD22	2:N:1092:TYR:CE1	2.50	0.46
2:N:1172:ILE:O	2:N:1172:ILE:CG2	2.58	0.46
2:N:1189:THR:CG2	2:N:1190:ASN:N	2.78	0.46
3:O:183:HIS:O	3:O:185:LYS:N	2.49	0.46
4:P:160:ILE:HG22	4:P:160:ILE:O	2.15	0.46
5:Q:179:ARG:NH2	5:Q:191:ARG:HB2	2.29	0.46
8:T:38:LEU:HD12	8:T:123:CYS:O	2.14	0.46
10:V:6:ARG:HA	10:V:12:LYS:O	2.15	0.46
1:A:67:CYS:O	1:A:68:GLN:CB	2.63	0.46
1:A:566:ILE:O	1:A:571:PRO:HA	2.15	0.46
1:A:843:VAL:C	1:A:845:ALA:N	2.68	0.46
2:B:235:LEU:HD11	2:B:359:GLN:HE21	1.78	0.46
2:B:280:ALA:N	2:B:322:ALA:HB1	2.30	0.46
2:B:1189:THR:CG2	2:B:1190:ASN:N	2.78	0.46
4:D:54:SER:CB	4:D:113:ALA:HB1	2.45	0.46
1:M:351:ARG:HD2	2:N:1128:LEU:CD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:739:LYS:H	1:M:739:LYS:CD	2.06	0.46
1:M:965:ILE:HD13	1:M:1051:ILE:HG12	1.96	0.46
2:N:363:PHE:O	2:N:364:GLU:C	2.54	0.46
2:N:777:ALA:HB1	2:N:1093:GLN:HB3	1.97	0.46
2:N:992:VAL:CG2	2:N:993:THR:N	2.78	0.46
2:N:1012:ILE:HG21	2:N:1092:TYR:OH	2.16	0.46
2:N:1116:ARG:CD	2:N:1198:TYR:CE1	2.98	0.46
3:O:164:ALA:CB	3:O:171:SER:CB	2.84	0.46
5:Q:77:LEU:HD21	5:Q:79:VAL:CG2	2.44	0.46
1:A:20:GLY:C	1:A:21:LEU:HD23	2.36	0.46
1:A:24:PRO:HA	1:A:27:ILE:CG2	2.45	0.46
1:A:225:PHE:HZ	1:A:235:MET:HE1	1.79	0.46
1:A:854:ASP:OD1	1:A:854:ASP:C	2.53	0.46
1:A:1453:LEU:HG	7:G:18:PHE:O	2.15	0.46
2:B:51:TRP:CG	2:B:51:TRP:CA	2.85	0.46
2:B:218:LYS:HB2	2:B:388:GLN:OE1	2.15	0.46
2:B:758:PHE:HB2	2:B:1024:ALA:CB	2.41	0.46
2:B:1010:LEU:HD22	2:B:1092:TYR:CE1	2.50	0.46
2:B:1031:LEU:HD11	2:B:1042:GLY:HA3	1.96	0.46
2:B:1162:VAL:CG1	2:B:1163:CYS:H	2.28	0.46
4:D:41:HIS:HB2	7:G:73:LYS:HZ2	1.79	0.46
4:D:94:SER:C	4:D:96:ALA:H	2.19	0.46
5:E:154:ARG:O	5:E:155:LEU:HG	2.16	0.46
1:M:64:ASN:O	1:M:66:LYS:N	2.48	0.46
1:M:402:GLY:O	1:M:436:HIS:CD2	2.68	0.46
1:M:822:ARG:HG2	2:N:507:LEU:H	1.79	0.46
1:M:963:ARG:HG3	1:M:963:ARG:HH11	1.80	0.46
1:M:1263:LEU:HG	1:M:1263:LEU:O	2.14	0.46
2:N:280:ALA:O	2:N:323:LEU:HD11	2.16	0.46
2:N:538:ILE:HG22	2:N:539:SER:O	2.16	0.46
2:N:612:ILE:O	2:N:614:GLU:N	2.47	0.46
2:N:879:ARG:NE	2:N:879:ARG:HA	2.30	0.46
3:O:9:ILE:H	3:O:9:ILE:HG13	1.45	0.46
4:P:41:HIS:ND1	4:P:41:HIS:C	2.68	0.46
8:T:59:LEU:O	8:T:60:ALA:HB3	2.14	0.46
1:A:624:GLY:C	1:A:626:GLY:H	2.18	0.46
1:A:666:GLY:O	1:A:667:ILE:C	2.54	0.46
1:A:965:ILE:HD13	1:A:1051:ILE:HG12	1.96	0.46
1:A:1153:GLU:HA	9:I:44:TYR:O	2.16	0.46
1:A:1197:LEU:HD11	1:A:1270:MET:HE3	1.97	0.46
1:A:1371:MET:H	1:A:1371:MET:HE3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:20:VAL:HG21	2:B:631:PHE:HZ	1.81	0.46
2:B:280:ALA:O	2:B:323:LEU:HD11	2.16	0.46
2:B:348:ILE:HG22	2:B:348:ILE:O	2.15	0.46
2:B:466:MET:O	2:B:468:SER:N	2.40	0.46
2:B:509:ASN:H	2:B:509:ASN:ND2	2.07	0.46
2:B:538:ILE:HG22	2:B:539:SER:O	2.16	0.46
2:B:873:GLU:HB2	2:B:915:THR:OG1	2.15	0.46
2:B:980:PHE:HA	2:B:1095:LEU:HD13	1.98	0.46
3:C:9:ILE:CD1	11:K:108:GLU:HB3	2.37	0.46
4:D:52:SER:HB2	4:D:147:SER:HB3	1.98	0.46
10:J:55:LEU:O	10:J:58:LYS:N	2.49	0.46
12:L:50:CYS:O	12:L:52:GLU:N	2.42	0.46
1:M:381:VAL:CG1	1:M:386:ILE:HG12	2.44	0.46
1:M:505:LEU:HD11	6:R:91:ALA:HB2	1.97	0.46
1:M:1215:ALA:O	1:M:1216:ASP:C	2.53	0.46
1:M:1450:GLU:HG3	7:S:22:MET:HB3	1.98	0.46
2:N:187:PRO:HG2	2:N:188:TYR:H	1.80	0.46
2:N:316:ILE:HG23	2:N:321:VAL:HB	1.97	0.46
2:N:540:ILE:H	2:N:605:GLU:CD	2.19	0.46
7:S:35:GLU:HG2	7:S:48:VAL:HG23	1.98	0.46
7:S:111:SER:C	7:S:113:ARG:N	2.68	0.46
7:S:132:SER:HB3	7:S:135:GLU:HB2	1.97	0.46
1:A:183:TRP:CG	1:A:184:GLY:N	2.84	0.46
1:A:384:TYR:HB3	6:F:115:THR:HG22	1.97	0.46
1:A:786:PRO:CB	2:B:700:ILE:HD12	2.45	0.46
1:A:963:ARG:HH11	1:A:963:ARG:HG3	1.80	0.46
2:B:16:ASP:OD1	2:B:652:ILE:HD13	2.15	0.46
2:B:101:PRO:O	2:B:103:GLU:N	2.49	0.46
2:B:215:GLN:O	2:B:229:ALA:HA	2.15	0.46
2:B:752:ALA:O	2:B:755:ILE:HG13	2.15	0.46
3:C:16:GLU:O	3:C:17:VAL:HG23	2.15	0.46
4:D:122:THR:O	4:D:126:GLN:HG3	2.16	0.46
7:G:35:GLU:HG2	7:G:48:VAL:HG23	1.98	0.46
10:J:43:TYR:CD2	10:J:43:TYR:N	2.82	0.46
11:K:40:HIS:O	11:K:41:THR:C	2.52	0.46
1:M:67:CYS:O	1:M:68:GLN:HB2	2.15	0.46
1:M:529:LEU:HD21	1:M:750:ALA:O	2.16	0.46
2:N:108:ASN:OD1	2:N:963:PHE:HZ	1.99	0.46
2:N:224:PRO:HG2	2:N:225:ILE:CD1	2.44	0.46
2:N:770:GLN:OE1	2:N:983:ARG:HA	2.15	0.46
2:N:830:TYR:CZ	2:N:1000:PRO:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:898:LEU:HD13	2:N:952:VAL:HG11	1.97	0.46
2:N:899:ILE:CD1	2:N:911:ILE:HG23	2.40	0.46
2:N:1047:PHE:CD1	2:N:1047:PHE:N	2.80	0.46
5:Q:54:ARG:C	5:Q:56:LEU:N	2.69	0.46
5:Q:119:ALA:O	5:Q:121:LYS:N	2.48	0.46
8:T:4:ALA:HA	8:T:60:ALA:CB	2.45	0.46
1:A:112:LYS:HG2	1:A:113:LEU:N	2.31	0.46
1:A:529:LEU:HD21	1:A:750:ALA:O	2.16	0.46
1:A:1007:GLU:O	1:A:1008:LEU:C	2.54	0.46
2:B:244:THR:CG2	2:B:245:MET:N	2.77	0.46
2:B:354:LEU:N	2:B:355:PRO:CD	2.78	0.46
2:B:540:ILE:H	2:B:605:GLU:CD	2.19	0.46
2:B:831:SER:CB	2:B:994:TYR:OH	2.63	0.46
2:B:839:MET:HE2	2:B:980:PHE:CD1	2.50	0.46
2:B:1012:ILE:HG21	2:B:1092:TYR:OH	2.16	0.46
2:B:1085:VAL:HG12	2:B:1086:PHE:N	2.31	0.46
3:C:26:LEU:O	3:C:27:SER:C	2.54	0.46
3:C:183:HIS:O	3:C:185:LYS:N	2.49	0.46
4:D:28:LEU:HD13	4:D:138:HIS:HD2	1.81	0.46
4:D:41:HIS:ND1	4:D:41:HIS:C	2.68	0.46
5:E:62:ASN:HB3	5:E:63:PRO:HD2	1.97	0.46
5:E:178:GLN:O	5:E:181:ASP:HB2	2.15	0.46
7:G:7:LEU:HD11	7:G:45:ILE:HD11	1.98	0.46
11:K:7:PHE:HA	11:K:10:PHE:HE2	1.76	0.46
1:M:42:ASP:OD1	1:M:45:ARG:O	2.34	0.46
1:M:53:LEU:CD2	1:M:54:ASN:N	2.57	0.46
1:M:112:LYS:HG2	1:M:113:LEU:N	2.31	0.46
1:M:567:LEU:O	1:M:568:LYS:O	2.34	0.46
1:M:624:GLY:C	1:M:626:GLY:H	2.18	0.46
1:M:689:GLU:C	1:M:691:VAL:H	2.18	0.46
1:M:771:VAL:O	1:M:773:GLY:N	2.49	0.46
1:M:802:GLU:OE1	2:N:726:ILE:HD12	2.16	0.46
1:M:827:ASP:C	1:M:829:ALA:H	2.18	0.46
1:M:1343:GLY:O	1:M:1344:ILE:C	2.53	0.46
2:N:221:ALA:N	2:N:222:PRO:HD2	2.30	0.46
2:N:479:TYR:CD2	2:N:479:TYR:N	2.83	0.46
2:N:602:ILE:HG13	2:N:602:ILE:O	2.16	0.46
2:N:866:PHE:C	2:N:868:ILE:N	2.66	0.46
2:N:873:GLU:HB2	2:N:915:THR:OG1	2.15	0.46
2:N:1085:VAL:HG12	2:N:1086:PHE:N	2.30	0.46
3:O:26:LEU:O	3:O:27:SER:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:56:SER:O	4:P:60:ILE:HG13	2.15	0.46
10:V:55:LEU:O	10:V:58:LYS:N	2.49	0.46
1:A:453:LYS:HG2	2:B:1141:HIS:CE1	2.51	0.46
1:A:822:ARG:HG2	2:B:506:GLN:HA	1.97	0.46
1:A:973:PHE:CD1	1:A:973:PHE:N	2.83	0.46
1:A:1003:ARG:HG2	1:A:1003:ARG:HH11	1.81	0.46
1:A:1241:ARG:HH12	1:A:1243:ARG:HH12	1.62	0.46
1:A:1447:MET:HG2	7:G:59:GLY:O	2.16	0.46
2:B:53:GLU:CG	2:B:53:GLU:O	2.63	0.46
2:B:221:ALA:N	2:B:222:PRO:HD2	2.30	0.46
2:B:1181:GLU:HG2	2:B:1188:LYS:HG2	1.97	0.46
2:B:1201:LYS:HG2	2:B:1202:LEU:N	2.28	0.46
3:C:186:LEU:N	3:C:186:LEU:HD12	2.31	0.46
4:D:41:HIS:ND1	4:D:42:ASP:N	2.64	0.46
11:K:6:ARG:O	11:K:8:GLU:N	2.49	0.46
1:M:303:THR:HG22	1:M:304:TYR:H	1.75	0.46
1:M:397:PRO:HB3	1:M:404:LYS:HB2	1.97	0.46
1:M:453:LYS:HG2	2:N:1141:HIS:CE1	2.51	0.46
1:M:854:ASP:OD1	1:M:854:ASP:C	2.53	0.46
1:M:962:LEU:CA	1:M:965:ILE:HG22	2.44	0.46
2:N:53:GLU:CG	2:N:53:GLU:O	2.63	0.46
2:N:239:SER:O	2:N:240:ARG:HB2	2.15	0.46
3:O:141:GLY:HA2	10:V:16:ASP:HB3	1.97	0.46
3:O:205:LYS:HG2	3:O:205:LYS:O	2.16	0.46
5:Q:178:GLN:O	5:Q:181:ASP:HB2	2.15	0.46
8:T:111:ILE:HG22	8:T:112:LYS:H	1.81	0.46
1:A:397:PRO:HB3	1:A:404:LYS:HB2	1.97	0.46
2:B:187:PRO:HG2	2:B:188:TYR:H	1.80	0.46
2:B:229:ALA:O	2:B:247:ILE:HG22	2.15	0.46
2:B:596:LEU:HD12	2:B:602:ILE:HG12	1.97	0.46
2:B:827:ILE:HG22	2:B:827:ILE:O	2.14	0.46
2:B:863:GLU:HG2	2:B:872:GLU:HB2	1.98	0.46
2:B:890:TYR:CD2	2:B:910:ILE:HG21	2.51	0.46
2:B:1132:GLU:O	2:B:1135:ARG:N	2.49	0.46
2:B:1168:LEU:HD13	2:B:1208:MET:HE1	1.98	0.46
3:C:141:GLY:HA2	10:J:16:ASP:HB3	1.97	0.46
5:E:201:SER:C	5:E:203:THR:H	2.19	0.46
1:M:80:HIS:O	1:M:244:PRO:HB3	2.16	0.46
1:M:570:LYS:HB3	1:M:572:LEU:HD11	1.98	0.46
1:M:984:THR:HB	1:M:987:GLU:H	1.80	0.46
1:M:1118:LEU:HD23	1:M:1311:THR:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:176:ASP:H	2:N:179:ASP:HB2	1.80	0.46
2:N:353:LEU:O	2:N:354:LEU:C	2.54	0.46
2:N:466:MET:O	2:N:468:SER:N	2.40	0.46
2:N:549:ASN:C	2:N:551:LEU:N	2.69	0.46
2:N:1039:GLY:HA2	10:V:50:LEU:HD21	1.96	0.46
2:N:1181:GLU:HG2	2:N:1188:LYS:HG2	1.97	0.46
2:N:1201:LYS:HG2	2:N:1202:LEU:N	2.28	0.46
3:O:186:LEU:HD12	3:O:186:LEU:N	2.31	0.46
4:P:54:SER:CB	4:P:113:ALA:HB1	2.45	0.46
4:P:122:THR:O	4:P:126:GLN:HG3	2.16	0.46
8:T:109:ASP:N	8:T:109:ASP:OD1	2.49	0.46
1:A:42:ASP:OD1	1:A:45:ARG:O	2.34	0.46
1:A:64:ASN:O	1:A:66:LYS:N	2.49	0.46
1:A:80:HIS:O	1:A:244:PRO:HB3	2.16	0.46
1:A:640:PRO:CG	1:A:641:LYS:H	2.25	0.46
1:A:710:THR:HG22	1:A:712:ARG:N	2.25	0.46
1:A:802:GLU:OE1	2:B:726:ILE:HD12	2.16	0.46
1:A:1376:ASP:C	1:A:1379:THR:HG22	2.37	0.46
2:B:108:ASN:OD1	2:B:963:PHE:HZ	1.99	0.46
2:B:203:LEU:HD12	2:B:402:ALA:HB1	1.98	0.46
2:B:597:ARG:HA	2:B:602:ILE:HG13	1.98	0.46
2:B:777:ALA:HB1	2:B:1093:GLN:HB3	1.97	0.46
2:B:866:PHE:C	2:B:868:ILE:N	2.66	0.46
2:B:898:LEU:HD13	2:B:952:VAL:HG11	1.98	0.46
2:B:992:VAL:CG2	2:B:993:THR:N	2.78	0.46
3:C:9:ILE:HG22	3:C:10:ILE:O	2.16	0.46
5:E:54:ARG:O	5:E:56:LEU:N	2.49	0.46
5:E:89:ILE:HG22	5:E:118:SER:C	2.23	0.46
12:L:62:ARG:HG2	12:L:63:THR:N	2.30	0.46
1:M:24:PRO:HA	1:M:27:ILE:CG2	2.46	0.46
1:M:41:MET:H	1:M:41:MET:HE3	1.81	0.46
1:M:72:GLU:HB3	1:M:76:GLU:HB3	1.98	0.46
1:M:91:PHE:H	1:M:298:GLN:NE2	2.10	0.46
1:M:444:LEU:O	1:M:490:LEU:HD12	2.16	0.46
1:M:649:ASN:C	1:M:651:GLN:N	2.69	0.46
1:M:822:ARG:HD2	2:N:505:ARG:O	2.14	0.46
1:M:890:SER:HB3	1:M:1300:GLU:HG2	1.96	0.46
1:M:960:VAL:HG11	1:M:1051:ILE:HG23	1.97	0.46
1:M:1342:LEU:HD13	5:Q:146:HIS:CG	2.50	0.46
2:N:25:PHE:CD1	2:N:811:TYR:CD2	3.03	0.46
2:N:457:GLY:C	2:N:458:ASN:HD22	2.20	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:596:LEU:HD12	2:N:602:ILE:HG12	1.97	0.46
2:N:752:ALA:O	2:N:755:ILE:HG13	2.15	0.46
2:N:1162:VAL:CG1	2:N:1163:CYS:H	2.28	0.46
4:P:94:SER:C	4:P:96:ALA:H	2.19	0.46
4:P:109:LEU:O	4:P:113:ALA:HB2	2.16	0.46
5:Q:62:ASN:HB3	5:Q:63:PRO:HD2	1.97	0.46
1:A:351:ARG:HD2	2:B:1128:LEU:CD2	2.45	0.45
1:A:499:ARG:O	1:A:502:LEU:HB2	2.16	0.45
1:A:567:LEU:O	1:A:568:LYS:O	2.34	0.45
1:A:771:VAL:O	1:A:773:GLY:N	2.49	0.45
2:B:225:ILE:HD12	2:B:225:ILE:N	2.31	0.45
2:B:602:ILE:HG13	2:B:602:ILE:O	2.16	0.45
2:B:839:MET:CE	2:B:1010:LEU:HD21	2.45	0.45
2:B:1159:ARG:CD	2:B:1193:GLN:NE2	2.79	0.45
6:F:97:ARG:HA	6:F:100:GLN:HG3	1.98	0.45
1:M:12:ARG:HB2	2:N:1218:THR:HG21	1.97	0.45
1:M:254:ASP:HB3	2:N:935:ARG:HD3	1.97	0.45
1:M:314:GLN:O	1:M:315:ALA:HB3	2.16	0.45
1:M:520:PRO:HD3	1:M:632:HIS:CG	2.51	0.45
1:M:669:ASP:CG	1:M:743:ASN:HD22	2.19	0.45
1:M:1279:ILE:HG21	1:M:1282:ILE:HD11	1.94	0.45
1:M:1318:GLU:C	1:M:1320:MET:H	2.19	0.45
2:N:20:VAL:HG21	2:N:631:PHE:HZ	1.81	0.45
2:N:56:LEU:HB3	2:N:425:MET:HE1	1.98	0.45
2:N:101:PRO:O	2:N:103:GLU:N	2.49	0.45
2:N:509:ASN:O	2:N:511:HIS:N	2.49	0.45
8:T:82:LYS:C	8:T:84:THR:H	2.19	0.45
10:V:7:CYS:SG	10:V:48:MET:CE	3.04	0.45
1:A:87:ALA:O	1:A:88:LYS:HG2	2.17	0.45
1:A:327:ARG:HH22	1:A:331:LYS:HE3	1.81	0.45
1:A:530:CYS:HA	1:A:750:ALA:HB1	1.99	0.45
1:A:669:ASP:HB3	1:A:744:VAL:HG23	1.98	0.45
1:A:787:HIS:HE1	2:B:512:TRP:CZ2	2.34	0.45
2:B:176:ASP:H	2:B:179:ASP:HB2	1.80	0.45
2:B:176:ASP:O	2:B:177:GLU:C	2.55	0.45
2:B:509:ASN:O	2:B:511:HIS:N	2.49	0.45
2:B:847:ASP:C	2:B:849:GLY:N	2.67	0.45
2:B:890:TYR:CA	2:B:910:ILE:CG2	2.83	0.45
2:B:1001:PHE:CE2	3:C:33:ARG:NE	2.85	0.45
3:C:47:LEU:O	3:C:158:ILE:HG22	2.16	0.45
5:E:123:ILE:C	5:E:125:THR:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:7:CYS:SG	10:J:48:MET:CE	3.04	0.45
1:M:20:GLY:C	1:M:21:LEU:HD23	2.36	0.45
1:M:68:GLN:C	1:M:70:CYS:H	2.19	0.45
1:M:87:ALA:O	1:M:88:LYS:HG2	2.17	0.45
1:M:649:ASN:O	1:M:650:ILE:C	2.55	0.45
1:M:669:ASP:HB3	1:M:744:VAL:HG23	1.98	0.45
1:M:973:PHE:N	1:M:973:PHE:CD1	2.83	0.45
2:N:176:ASP:O	2:N:177:GLU:C	2.55	0.45
2:N:217:PHE:HA	2:N:388:GLN:HG3	1.99	0.45
2:N:890:TYR:CD2	2:N:910:ILE:HG21	2.51	0.45
2:N:977:GLY:HA3	2:N:1099:VAL:HG21	1.99	0.45
3:O:9:ILE:HG22	3:O:10:ILE:O	2.16	0.45
4:P:52:SER:HB2	4:P:147:SER:HB3	1.98	0.45
5:Q:201:SER:C	5:Q:203:THR:H	2.19	0.45
7:S:6:ASP:HB3	7:S:73:LYS:HZ1	1.80	0.45
9:U:109:THR:HG22	9:U:109:THR:O	2.17	0.45
1:A:314:GLN:O	1:A:315:ALA:HB3	2.16	0.45
1:A:553:TRP:HE1	11:K:62:LYS:CB	2.12	0.45
1:A:649:ASN:C	1:A:651:GLN:N	2.69	0.45
1:A:822:ARG:HG2	2:B:507:LEU:H	1.81	0.45
1:A:850:MET:HE1	1:A:1063:GLY:HA2	1.99	0.45
1:A:1103:LEU:HD12	1:A:1103:LEU:O	2.17	0.45
1:A:1318:GLU:C	1:A:1320:MET:H	2.19	0.45
1:A:1450:GLU:HG2	7:G:22:MET:SD	2.53	0.45
2:B:25:PHE:CD1	2:B:811:TYR:CD2	3.03	0.45
2:B:39:ASP:O	2:B:43:GLU:HB2	2.16	0.45
2:B:549:ASN:C	2:B:551:LEU:N	2.69	0.45
2:B:725:ARG:HH12	2:B:1047:PHE:HA	1.81	0.45
2:B:1072:MET:CE	2:B:1087:PHE:HB2	2.46	0.45
2:B:1200:ALA:O	2:B:1201:LYS:C	2.54	0.45
4:D:109:LEU:O	4:D:113:ALA:HB2	2.16	0.45
8:H:17:ASN:O	8:H:19:ARG:N	2.50	0.45
8:H:82:LYS:C	8:H:84:THR:H	2.20	0.45
9:I:58:ILE:CG1	9:I:62:ILE:HG21	2.46	0.45
1:M:666:GLY:O	1:M:667:ILE:C	2.54	0.45
1:M:786:PRO:CB	2:N:700:ILE:HD12	2.45	0.45
1:M:1072:GLN:O	1:M:1074:ILE:N	2.50	0.45
1:M:1376:ASP:C	1:M:1379:THR:HG22	2.37	0.45
2:N:16:ASP:CG	2:N:652:ILE:HD13	2.37	0.45
2:N:16:ASP:OD1	2:N:652:ILE:HD13	2.15	0.45
2:N:796:LEU:O	2:N:797:TYR:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:839:MET:CE	2:N:1010:LEU:HD21	2.45	0.45
2:N:1116:ARG:NH2	2:N:1198:TYR:HE1	2.14	0.45
3:O:131:GLU:HA	3:O:132:PRO:HD3	1.74	0.45
5:Q:154:ARG:O	5:Q:155:LEU:HG	2.16	0.45
7:S:166:ASP:O	7:S:168:LEU:HG	2.17	0.45
8:T:42:ILE:HG23	8:T:94:TYR:CE1	2.51	0.45
1:A:95:PHE:CD1	1:A:235:MET:HG2	2.52	0.45
1:A:568:LYS:HB3	8:H:94:TYR:C	2.36	0.45
2:B:597:ARG:NH1	2:B:688:GLU:OE2	2.48	0.45
2:B:737:THR:HG22	9:I:66:PRO:HA	1.98	0.45
2:B:977:GLY:HA3	2:B:1099:VAL:HG21	1.99	0.45
2:B:995:ARG:NH1	2:B:997:GLU:OE1	2.49	0.45
3:C:205:LYS:O	3:C:205:LYS:HG2	2.16	0.45
6:F:95:GLY:O	6:F:98:ALA:HB3	2.16	0.45
8:H:109:ASP:OD1	8:H:109:ASP:N	2.49	0.45
1:M:267:LEU:HD23	1:M:267:LEU:HA	1.86	0.45
1:M:382:THR:C	1:M:384:TYR:H	2.20	0.45
1:M:428:GLN:O	1:M:429:TYR:C	2.52	0.45
1:M:530:CYS:HA	1:M:750:ALA:HB1	1.99	0.45
1:M:869:TYR:CE1	1:M:1066:VAL:CG1	3.00	0.45
1:M:1050:THR:O	1:M:1051:ILE:C	2.55	0.45
2:N:22:SER:HA	2:N:811:TYR:CE2	2.49	0.45
2:N:54:PRO:O	2:N:55:ARG:C	2.55	0.45
2:N:810:GLU:CB	2:N:815:ARG:HH22	2.23	0.45
2:N:1001:PHE:CE2	3:O:33:ARG:NE	2.85	0.45
3:O:9:ILE:CD1	11:W:108:GLU:HB3	2.36	0.45
3:O:233:GLU:OE1	10:V:12:LYS:HE2	2.17	0.45
6:R:95:GLY:O	6:R:98:ALA:HB3	2.16	0.45
6:R:97:ARG:HA	6:R:100:GLN:HG3	1.98	0.45
9:U:10:CYS:O	9:U:11:ASN:C	2.55	0.45
1:A:72:GLU:HB3	1:A:76:GLU:HB3	1.99	0.45
1:A:382:THR:C	1:A:384:TYR:H	2.20	0.45
1:A:434:GLU:OE1	2:B:1108:ARG:NH1	2.50	0.45
1:A:684:ILE:HG21	1:A:802:GLU:HG3	1.96	0.45
1:A:780:PHE:O	1:A:781:ALA:C	2.55	0.45
1:A:943:PHE:CD2	1:A:944:LEU:HD23	2.44	0.45
2:B:286:ASP:HB2	9:I:12:ASN:HA	1.97	0.45
2:B:442:LYS:O	2:B:444:THR:N	2.44	0.45
2:B:457:GLY:C	2:B:458:ASN:HD22	2.20	0.45
3:C:74:GLU:CB	3:C:128:ASN:HB3	2.38	0.45
3:C:233:GLU:OE1	10:J:12:LYS:HE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:111:ILE:HG22	8:H:112:LYS:H	1.81	0.45
9:I:10:CYS:O	9:I:11:ASN:C	2.55	0.45
9:I:109:THR:O	9:I:109:THR:HG22	2.17	0.45
1:M:261:ASP:OD1	1:M:262:ASP:N	2.49	0.45
1:M:561:VAL:HG23	8:T:77:SER:HB2	1.98	0.45
1:M:757:ILE:O	1:M:760:ALA:HB3	2.16	0.45
1:M:783:ARG:NH2	2:N:696:GLU:O	2.47	0.45
1:M:976:ASP:C	1:M:978:ALA:H	2.20	0.45
1:M:1257:ALA:O	1:M:1258:GLU:CB	2.65	0.45
2:N:203:LEU:HD12	2:N:402:ALA:HB1	1.98	0.45
2:N:294:CYS:SG	2:N:303:LEU:HD21	2.57	0.45
2:N:597:ARG:NH1	2:N:688:GLU:OE2	2.48	0.45
2:N:758:PHE:C	2:N:760:ASP:H	2.20	0.45
2:N:980:PHE:HA	2:N:1095:LEU:HD13	1.98	0.45
5:Q:89:ILE:CG1	5:Q:118:SER:HB2	2.47	0.45
5:Q:92:MET:HE3	5:Q:119:ALA:HB1	1.97	0.45
5:Q:123:ILE:C	5:Q:125:THR:H	2.19	0.45
5:Q:177:ILE:HB	5:Q:211:ARG:HD3	1.98	0.45
8:T:17:ASN:O	8:T:19:ARG:N	2.49	0.45
9:U:68:LEU:HB3	9:U:84:VAL:CG2	2.46	0.45
1:A:261:ASP:OD1	1:A:262:ASP:N	2.49	0.45
1:A:444:LEU:O	1:A:490:LEU:HD12	2.16	0.45
1:A:960:VAL:HG11	1:A:1051:ILE:HG23	1.97	0.45
1:A:984:THR:N	1:A:987:GLU:HB2	2.31	0.45
1:A:999:LEU:HD13	1:A:1020:PHE:HE2	1.82	0.45
1:A:1030:THR:HG22	1:A:1034:LEU:HD12	1.98	0.45
1:A:1118:LEU:HD23	1:A:1311:THR:HG21	1.98	0.45
1:A:1228:VAL:HG22	1:A:1242:CYS:HB3	1.99	0.45
1:A:1257:ALA:O	1:A:1258:GLU:CB	2.65	0.45
1:A:1342:LEU:HD13	5:E:146:HIS:CG	2.50	0.45
2:B:217:PHE:HA	2:B:388:GLN:HG3	1.99	0.45
2:B:992:VAL:CG2	2:B:993:THR:H	2.27	0.45
3:C:112:ASP:HB2	3:C:114:TYR:HE1	1.76	0.45
7:G:1:MET:HE2	7:G:3:PHE:CE1	2.46	0.45
8:H:42:ILE:HG23	8:H:94:TYR:CE1	2.52	0.45
12:L:63:THR:HG22	12:L:65:ARG:HG3	1.98	0.45
1:M:360:LEU:O	1:M:361:GLU:C	2.53	0.45
1:M:755:SER:O	1:M:756:PHE:C	2.55	0.45
1:M:780:PHE:O	1:M:781:ALA:C	2.55	0.45
1:M:787:HIS:HE1	2:N:512:TRP:CZ2	2.34	0.45
1:M:822:ARG:HG2	2:N:506:GLN:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1030:THR:HG22	1:M:1034:LEU:HD12	1.98	0.45
1:M:1153:GLU:HA	9:U:44:TYR:O	2.16	0.45
2:N:200:GLU:OE1	2:N:788:ARG:NH2	2.50	0.45
2:N:405:LEU:HB3	2:N:459:TRP:HZ2	1.78	0.45
2:N:509:ASN:H	2:N:509:ASN:ND2	2.07	0.45
2:N:737:THR:HG22	9:U:66:PRO:HA	1.98	0.45
2:N:758:PHE:C	2:N:760:ASP:N	2.70	0.45
2:N:995:ARG:NH1	2:N:997:GLU:OE1	2.50	0.45
2:N:1072:MET:CE	2:N:1087:PHE:HB2	2.46	0.45
3:O:74:GLU:CB	3:O:128:ASN:HB3	2.38	0.45
4:P:28:LEU:HD13	4:P:138:HIS:HD2	1.81	0.45
4:P:41:HIS:ND1	4:P:42:ASP:N	2.64	0.45
1:A:100:LYS:HG3	1:A:182:LEU:CD2	2.47	0.45
1:A:263:LEU:O	1:A:265:HIS:N	2.50	0.45
1:A:570:LYS:HB3	1:A:572:LEU:HD11	1.98	0.45
1:A:742:ASN:HD22	1:A:742:ASN:C	2.15	0.45
1:A:1163:THR:CG2	1:A:1165:ILE:H	2.25	0.45
2:B:294:CYS:SG	2:B:303:LEU:HD21	2.57	0.45
2:B:495:ILE:HG12	2:B:528:LEU:HD13	1.99	0.45
6:F:74:ILE:O	6:F:74:ILE:HG22	2.15	0.45
1:M:183:TRP:CG	1:M:184:GLY:N	2.84	0.45
1:M:940:ASP:O	1:M:943:PHE:N	2.48	0.45
1:M:1346:ALA:HB1	5:Q:148:LEU:HB2	1.99	0.45
2:N:57:ILE:HG22	2:N:57:ILE:O	2.17	0.45
2:N:314:PHE:CD1	2:N:314:PHE:O	2.70	0.45
2:N:555:GLY:O	2:N:583:HIS:ND1	2.50	0.45
2:N:1132:GLU:O	2:N:1135:ARG:N	2.49	0.45
11:W:6:ARG:O	11:W:8:GLU:N	2.48	0.45
1:A:520:PRO:HD3	1:A:632:HIS:CG	2.51	0.45
1:A:547:VAL:O	1:A:551:LEU:HG	2.17	0.45
1:A:669:ASP:CG	1:A:743:ASN:HD22	2.19	0.45
2:B:479:TYR:N	2:B:479:TYR:CD2	2.83	0.45
2:B:857:ARG:O	2:B:967:ARG:HA	2.17	0.45
2:B:1003:ALA:O	3:C:177:ALA:HA	2.17	0.45
3:C:113:VAL:HG23	3:C:145:CYS:O	2.17	0.45
4:D:34:PHE:CE2	7:G:80:LYS:NZ	2.78	0.45
5:E:80:GLU:O	5:E:110:ILE:CG2	2.31	0.45
1:M:100:LYS:HG3	1:M:182:LEU:CD2	2.47	0.45
1:M:434:GLU:OE1	2:N:1108:ARG:NH1	2.49	0.45
1:M:640:PRO:CG	1:M:641:LYS:H	2.25	0.45
1:M:817:HIS:NE2	2:N:764:SER:HB2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:984:THR:N	1:M:987:GLU:HB2	2.31	0.45
1:M:1004:GLY:CA	1:M:1009:ILE:HG21	2.45	0.45
2:N:725:ARG:HH12	2:N:1047:PHE:HA	1.81	0.45
2:N:758:PHE:HB2	2:N:1024:ALA:CB	2.40	0.45
2:N:1003:ALA:O	3:O:177:ALA:HA	2.17	0.45
3:O:99:GLU:H	3:O:119:ILE:CG1	2.29	0.45
5:Q:58:SER:OG	5:Q:80:GLU:HG3	2.17	0.45
5:Q:150:PRO:HB3	5:Q:199:ARG:HB3	1.98	0.45
6:R:74:ILE:O	6:R:74:ILE:HG22	2.16	0.45
1:A:368:PRO:O	1:A:369:ILE:C	2.54	0.45
1:A:869:TYR:CE1	1:A:1066:VAL:CG1	3.00	0.45
1:A:916:TYR:CG	1:A:920:ILE:CD1	3.00	0.45
1:A:941:ARG:HG2	1:A:941:ARG:NH1	2.32	0.45
1:A:1072:GLN:O	1:A:1074:ILE:N	2.50	0.45
1:A:1316:LEU:C	1:A:1318:GLU:N	2.70	0.45
2:B:105:ARG:NH2	2:B:185:GLU:HG2	2.31	0.45
2:B:200:GLU:OE1	2:B:788:ARG:NH2	2.50	0.45
2:B:489:ARG:HB3	2:B:489:ARG:HH11	1.82	0.45
2:B:559:LEU:O	2:B:560:GLU:C	2.55	0.45
2:B:821:GLN:NE2	2:B:850:LEU:HD12	2.32	0.45
2:B:1177:LYS:C	2:B:1179:GLN:H	2.21	0.45
3:C:10:ILE:O	3:C:11:ASN:C	2.55	0.45
3:C:168:ALA:O	3:C:170:TRP:N	2.50	0.45
3:C:251:LEU:HD12	3:C:251:LEU:C	2.37	0.45
1:M:263:LEU:O	1:M:265:HIS:N	2.50	0.45
1:M:499:ARG:O	1:M:502:LEU:HB2	2.16	0.45
2:N:203:LEU:HD23	2:N:203:LEU:HA	1.84	0.45
2:N:225:ILE:HD12	2:N:225:ILE:N	2.31	0.45
2:N:381:CYS:C	2:N:383:LEU:N	2.70	0.45
2:N:839:MET:HE1	2:N:980:PHE:HB2	1.98	0.45
2:N:863:GLU:HG2	2:N:872:GLU:HB2	1.98	0.45
3:O:46:ASP:HA	3:O:169:LYS:NZ	2.31	0.45
4:P:94:SER:C	4:P:96:ALA:N	2.69	0.45
9:U:106:CYS:O	9:U:107:LYS:CG	2.65	0.45
10:V:14:VAL:O	10:V:14:VAL:HG12	2.16	0.45
12:X:62:ARG:HG2	12:X:63:THR:N	2.30	0.45
1:A:261:ASP:CG	1:A:262:ASP:N	2.71	0.45
1:A:456:MET:HE3	2:B:1134:GLU:HG3	1.98	0.45
1:A:783:ARG:NH2	2:B:696:GLU:O	2.47	0.45
1:A:1144:THR:HA	1:A:1276:LEU:HD13	1.98	0.45
1:A:1208:GLN:O	1:A:1209:LEU:HD23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:31:VAL:O	2:B:32:SER:C	2.54	0.45
2:B:363:PHE:O	2:B:364:GLU:C	2.54	0.45
2:B:758:PHE:C	2:B:760:ASP:H	2.20	0.45
3:C:32:LEU:HG	3:C:36:MET:HE2	1.99	0.45
3:C:147:LEU:N	3:C:147:LEU:CD2	2.75	0.45
5:E:58:SER:OG	5:E:80:GLU:HG3	2.17	0.45
5:E:115:ILE:HG22	5:E:116:THR:N	2.32	0.45
5:E:150:PRO:HB3	5:E:199:ARG:HB3	1.98	0.45
5:E:177:ILE:HB	5:E:211:ARG:HD3	1.98	0.45
7:G:153:ASP:CG	7:G:154:VAL:N	2.67	0.45
7:G:166:ASP:O	7:G:168:LEU:HG	2.17	0.45
1:M:208:ILE:HG23	1:M:212:PHE:CE1	2.52	0.45
1:M:368:PRO:O	1:M:369:ILE:C	2.54	0.45
1:M:568:LYS:HB3	8:T:94:TYR:C	2.36	0.45
1:M:1007:GLU:O	1:M:1008:LEU:C	2.54	0.45
2:N:559:LEU:O	2:N:560:GLU:C	2.55	0.45
2:N:868:ILE:O	2:N:870:ILE:HG13	2.17	0.45
2:N:997:GLU:H	2:N:997:GLU:CD	2.21	0.45
2:N:1200:ALA:O	2:N:1201:LYS:C	2.54	0.45
4:P:25:ALA:C	4:P:27:LEU:N	2.70	0.45
5:Q:54:ARG:O	5:Q:56:LEU:N	2.49	0.45
5:Q:133:THR:C	5:Q:134:PHE:HD1	2.20	0.45
12:X:49:ARG:HB3	12:X:50:CYS:H	1.70	0.45
1:A:757:ILE:O	1:A:760:ALA:HB3	2.16	0.44
1:A:852:HIS:HB2	1:A:856:THR:CG2	2.47	0.44
1:A:962:LEU:CA	1:A:965:ILE:HG22	2.45	0.44
1:A:1050:THR:O	1:A:1051:ILE:C	2.55	0.44
1:A:1448:ILE:HD12	1:A:1448:ILE:N	2.32	0.44
2:B:542:SER:N	2:B:621:THR:HG23	2.31	0.44
2:B:555:GLY:O	2:B:583:HIS:ND1	2.50	0.44
2:B:796:LEU:O	2:B:797:TYR:C	2.55	0.44
2:B:797:TYR:CE1	2:B:854:LEU:HD23	2.53	0.44
2:B:908:ASP:O	2:B:909:ASP:C	2.55	0.44
2:B:999:MET:HG2	2:B:1007:VAL:HG22	1.99	0.44
3:C:46:ASP:HA	3:C:169:LYS:NZ	2.31	0.44
7:G:111:SER:C	7:G:113:ARG:N	2.68	0.44
7:G:132:SER:HB3	7:G:135:GLU:N	2.32	0.44
9:I:106:CYS:O	9:I:107:LYS:CG	2.65	0.44
10:J:14:VAL:O	10:J:14:VAL:HG12	2.16	0.44
1:M:95:PHE:CD1	1:M:235:MET:HG2	2.52	0.44
1:M:108:MET:C	1:M:110:CYS:N	2.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:547:VAL:O	1:M:551:LEU:HG	2.17	0.44
1:M:869:TYR:CD2	1:M:1060:VAL:HG21	2.52	0.44
1:M:1003:ARG:HG2	1:M:1003:ARG:HH11	1.81	0.44
1:M:1335:PHE:O	1:M:1336:VAL:C	2.56	0.44
2:N:108:ASN:HA	2:N:198:GLY:CA	2.47	0.44
2:N:218:LYS:HB2	2:N:388:GLN:OE1	2.16	0.44
2:N:356:HIS:C	2:N:358:THR:H	2.21	0.44
2:N:495:ILE:HG12	2:N:528:LEU:HD13	1.99	0.44
2:N:542:SER:N	2:N:621:THR:HG23	2.31	0.44
2:N:597:ARG:HA	2:N:602:ILE:HG13	1.98	0.44
2:N:758:PHE:N	2:N:759:PRO:CD	2.81	0.44
2:N:857:ARG:O	2:N:967:ARG:HA	2.17	0.44
3:O:45:ILE:HG13	3:O:71:LEU:HD11	1.99	0.44
3:O:168:ALA:O	3:O:170:TRP:N	2.50	0.44
3:O:251:LEU:HD12	3:O:251:LEU:C	2.37	0.44
4:P:49:ILE:CG2	7:S:4:LEU:HB2	2.42	0.44
5:Q:81:PHE:CA	5:Q:110:ILE:CG2	2.87	0.44
1:A:68:GLN:C	1:A:70:CYS:H	2.19	0.44
1:A:108:MET:C	1:A:110:CYS:N	2.69	0.44
1:A:549:ASN:HD21	11:K:47:ARG:CZ	2.31	0.44
1:A:1107:LEU:HB3	1:A:1387:ILE:HG21	1.99	0.44
1:A:1208:GLN:O	1:A:1277:ARG:NH1	2.51	0.44
1:A:1346:ALA:HB1	5:E:148:LEU:HB2	1.99	0.44
2:B:16:ASP:CG	2:B:652:ILE:HD13	2.37	0.44
2:B:416:LYS:HB2	2:B:416:LYS:HZ2	1.80	0.44
2:B:758:PHE:N	2:B:759:PRO:CD	2.80	0.44
2:B:899:ILE:CD1	2:B:911:ILE:HG23	2.40	0.44
4:D:50:ALA:CB	4:D:139:PRO:O	2.65	0.44
4:D:94:SER:C	4:D:96:ALA:N	2.69	0.44
6:F:79:ARG:HG2	6:F:144:GLU:OE1	2.17	0.44
11:K:79:GLU:O	11:K:81:THR:N	2.50	0.44
1:M:27:ILE:CG1	1:M:239:VAL:HG22	2.47	0.44
1:M:63:ARG:HG2	1:M:74:MET:HE1	1.98	0.44
1:M:106:ILE:CG1	1:M:107:CYS:N	2.80	0.44
1:M:173:PRO:HB3	1:M:186:TRP:CD2	2.52	0.44
1:M:327:ARG:HH22	1:M:331:LYS:HE3	1.81	0.44
1:M:916:TYR:CG	1:M:920:ILE:CD1	3.00	0.44
1:M:1107:LEU:HB3	1:M:1387:ILE:HG21	1.99	0.44
1:M:1144:THR:HA	1:M:1276:LEU:HD13	1.98	0.44
1:M:1208:GLN:O	1:M:1277:ARG:NH1	2.50	0.44
2:N:16:ASP:HB3	2:N:652:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:752:ALA:O	2:N:755:ILE:CG1	2.65	0.44
2:N:1012:ILE:HD13	2:N:1092:TYR:OH	2.18	0.44
3:O:10:ILE:O	3:O:11:ASN:C	2.55	0.44
3:O:113:VAL:HG23	3:O:145:CYS:O	2.17	0.44
9:U:58:ILE:CG1	9:U:62:ILE:HG21	2.47	0.44
11:W:79:GLU:O	11:W:81:THR:N	2.50	0.44
1:A:561:VAL:HG23	8:H:77:SER:HB2	1.98	0.44
1:A:716:GLU:O	1:A:718:GLU:N	2.50	0.44
1:A:1335:PHE:O	1:A:1336:VAL:C	2.56	0.44
2:B:314:PHE:O	2:B:314:PHE:CD1	2.70	0.44
2:B:353:LEU:O	2:B:354:LEU:C	2.54	0.44
2:B:597:ARG:HH11	2:B:688:GLU:HG2	1.82	0.44
2:B:634:GLU:C	2:B:636:ASP:N	2.71	0.44
2:B:1012:ILE:HD13	2:B:1092:TYR:OH	2.18	0.44
2:B:1117:GLN:HG3	2:B:1156:ASP:CG	2.38	0.44
4:D:54:SER:HB3	4:D:113:ALA:CA	2.47	0.44
5:E:12:TRP:O	5:E:15:PHE:HB3	2.18	0.44
7:G:153:ASP:CG	7:G:154:VAL:HG23	2.38	0.44
9:I:68:LEU:HB3	9:I:84:VAL:CG2	2.46	0.44
1:M:44:SER:O	1:M:45:ARG:CB	2.66	0.44
1:M:93:ILE:HG22	1:M:305:MET:CE	2.47	0.44
1:M:225:PHE:HZ	1:M:235:MET:HE1	1.82	0.44
1:M:465:PRO:O	1:M:466:TYR:O	2.35	0.44
1:M:549:ASN:HD21	11:W:47:ARG:CZ	2.31	0.44
1:M:575:GLY:O	1:M:576:LYS:C	2.54	0.44
1:M:1195:LEU:HD12	1:M:1196:ARG:N	2.32	0.44
1:M:1448:ILE:HD12	1:M:1448:ILE:N	2.33	0.44
2:N:908:ASP:O	2:N:909:ASP:C	2.55	0.44
2:N:1177:LYS:C	2:N:1179:GLN:H	2.21	0.44
2:N:1192:TYR:N	2:N:1192:TYR:CD1	2.86	0.44
3:O:175:ALA:CB	10:V:42:ARG:NH2	2.71	0.44
5:Q:39:GLU:C	5:Q:41:PHE:H	2.20	0.44
11:W:24:ASP:OD1	11:W:26:ARG:HB2	2.18	0.44
11:W:85:GLN:O	11:W:88:GLU:N	2.50	0.44
1:A:116:ASP:C	1:A:118:THR:N	2.71	0.44
1:A:351:ARG:HD2	2:B:1128:LEU:HD21	2.00	0.44
1:A:456:MET:HE1	2:B:1134:GLU:HB3	1.99	0.44
1:A:549:ASN:ND2	11:K:47:ARG:NH2	2.65	0.44
1:A:755:SER:O	1:A:756:PHE:C	2.55	0.44
1:A:936:GLN:NE2	1:A:1025:ARG:NH1	2.66	0.44
1:A:1195:LEU:HD12	1:A:1196:ARG:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1274:ILE:O	1:A:1274:ILE:HG22	2.18	0.44
1:A:1283:SER:O	1:A:1285:VAL:HG23	2.18	0.44
1:A:1388:THR:O	1:A:1390:HIS:N	2.51	0.44
2:B:107:ARG:NH2	2:B:956:THR:HB	2.33	0.44
2:B:108:ASN:HA	2:B:198:GLY:CA	2.47	0.44
2:B:752:ALA:O	2:B:755:ILE:CG1	2.65	0.44
2:B:868:ILE:O	2:B:870:ILE:HG13	2.17	0.44
2:B:1159:ARG:NH1	2:B:1159:ARG:CB	2.66	0.44
3:C:45:ILE:HG13	3:C:71:LEU:HD11	1.99	0.44
6:F:73:ALA:O	6:F:74:ILE:HB	2.18	0.44
8:H:107:ASP:O	8:H:108:GLU:C	2.55	0.44
10:J:6:ARG:HG2	10:J:13:VAL:HA	1.98	0.44
1:M:261:ASP:CG	1:M:262:ASP:N	2.71	0.44
1:M:417:ARG:C	1:M:418:TYR:CD2	2.91	0.44
1:M:478:PRO:CG	1:M:522:MET:HG2	2.48	0.44
1:M:739:LYS:C	1:M:741:LEU:H	2.20	0.44
1:M:936:GLN:NE2	1:M:1025:ARG:NH1	2.66	0.44
1:M:964:ARG:O	1:M:967:GLN:N	2.51	0.44
1:M:1392:ILE:C	1:M:1394:ARG:H	2.20	0.44
2:N:105:ARG:NH2	2:N:185:GLU:HG2	2.31	0.44
2:N:999:MET:HG2	2:N:1007:VAL:HG22	1.99	0.44
3:O:47:LEU:O	3:O:158:ILE:HG22	2.16	0.44
4:P:34:PHE:CE2	7:S:80:LYS:NZ	2.78	0.44
5:Q:12:TRP:O	5:Q:15:PHE:HB3	2.18	0.44
7:S:7:LEU:HD11	7:S:45:ILE:HD11	1.98	0.44
7:S:132:SER:HB3	7:S:135:GLU:N	2.32	0.44
1:A:40:ILE:C	1:A:41:MET:HG3	2.38	0.44
1:A:44:SER:O	1:A:45:ARG:CB	2.65	0.44
1:A:478:PRO:CG	1:A:522:MET:HG2	2.48	0.44
1:A:826:ILE:O	1:A:830:VAL:HG23	2.17	0.44
1:A:902:LEU:N	1:A:927:GLN:NE2	2.62	0.44
1:A:1004:GLY:CA	1:A:1009:ILE:HG21	2.45	0.44
1:A:1392:ILE:C	1:A:1394:ARG:H	2.20	0.44
2:B:16:ASP:HB3	2:B:652:ILE:HD13	1.99	0.44
2:B:235:LEU:O	2:B:240:ARG:HG2	2.17	0.44
5:E:39:GLU:C	5:E:41:PHE:H	2.20	0.44
11:K:85:GLN:O	11:K:88:GLU:N	2.50	0.44
1:M:354:ILE:HG23	1:M:488:MET:HG3	1.99	0.44
1:M:1228:VAL:HG22	1:M:1242:CYS:HB3	1.99	0.44
2:N:1110:PRO:HG2	2:N:1119:VAL:CG2	2.47	0.44
3:O:87:CYS:SG	3:O:87:CYS:O	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:241:ASN:HB3	11:W:109:TRP:CZ2	2.53	0.44
4:P:35:ALA:C	4:P:37:LYS:N	2.70	0.44
4:P:67:ARG:C	4:P:69:ARG:N	2.71	0.44
5:Q:41:PHE:HZ	5:Q:57:MET:HE1	1.82	0.44
5:Q:179:ARG:HH21	5:Q:191:ARG:HB2	1.82	0.44
7:S:89:ALA:CB	7:S:103:VAL:CA	2.91	0.44
10:V:13:VAL:C	10:V:14:VAL:HG23	2.38	0.44
1:A:106:ILE:CG1	1:A:107:CYS:N	2.80	0.44
1:A:444:LEU:HD22	1:A:444:LEU:HA	1.79	0.44
1:A:606:MET:HG2	1:A:622:THR:HG23	2.00	0.44
1:A:976:ASP:C	1:A:978:ALA:H	2.20	0.44
2:B:54:PRO:O	2:B:55:ARG:C	2.55	0.44
2:B:57:ILE:O	2:B:57:ILE:HG22	2.17	0.44
2:B:167:SER:O	2:B:173:ARG:HB3	2.18	0.44
2:B:758:PHE:C	2:B:760:ASP:N	2.70	0.44
2:B:997:GLU:CD	2:B:997:GLU:H	2.21	0.44
7:G:13:LEU:CD2	7:G:17:TYR:HB2	2.45	0.44
8:H:90:ASP:C	8:H:92:TYR:H	2.20	0.44
1:M:53:LEU:O	1:M:54:ASN:C	2.55	0.44
1:M:895:HIS:O	1:M:899:TYR:HB3	2.17	0.44
1:M:1103:LEU:HD12	1:M:1103:LEU:O	2.17	0.44
1:M:1208:GLN:O	1:M:1209:LEU:HD23	2.17	0.44
1:M:1283:SER:O	1:M:1285:VAL:HG23	2.18	0.44
2:N:39:ASP:O	2:N:43:GLU:HB2	2.16	0.44
2:N:107:ARG:NH2	2:N:956:THR:HB	2.33	0.44
2:N:287:GLY:CA	2:N:290:LEU:HD23	2.48	0.44
2:N:758:PHE:CE2	2:N:1044:ALA:HA	2.53	0.44
6:R:124:GLU:O	6:R:130:ILE:HG13	2.18	0.44
7:S:117:ASP:O	7:S:119:LEU:N	2.51	0.44
1:A:17:VAL:HG23	1:A:1424:CYS:SG	2.58	0.44
1:A:93:ILE:HG22	1:A:305:MET:CE	2.47	0.44
1:A:575:GLY:O	1:A:576:LYS:C	2.54	0.44
1:A:738:LEU:HD23	1:A:738:LEU:HA	1.79	0.44
1:A:819:MET:HG2	2:B:507:LEU:O	2.18	0.44
1:A:859:ASN:ND2	1:A:861:LEU:N	2.59	0.44
1:A:1449:ASP:HB2	6:F:133:VAL:CG2	2.48	0.44
2:B:281:LEU:HD13	2:B:368:THR:CB	2.48	0.44
2:B:356:HIS:C	2:B:358:THR:H	2.21	0.44
2:B:405:LEU:HB3	2:B:459:TRP:HZ2	1.78	0.44
2:B:609:ILE:HG13	2:B:694:GLU:HA	2.00	0.44
2:B:882:THR:HG21	2:B:884:ARG:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1004:GLU:CB	2:B:1006:ILE:HG12	2.44	0.44
2:B:1166:CYS:SG	2:B:1185:CYS:SG	3.09	0.44
2:B:1192:TYR:N	2:B:1192:TYR:CD1	2.86	0.44
3:C:241:ASN:HB3	11:K:109:TRP:CZ2	2.52	0.44
4:D:176:ASP:O	4:D:178:LEU:N	2.51	0.44
8:H:12:VAL:HB	8:H:52:ASP:H	1.83	0.44
8:H:19:ARG:C	8:H:20:TYR:HD2	2.21	0.44
9:I:32:CYS:O	9:I:33:ASP:CG	2.56	0.44
10:J:13:VAL:C	10:J:14:VAL:HG23	2.38	0.44
1:M:17:VAL:HG23	1:M:1424:CYS:SG	2.58	0.44
1:M:351:ARG:HD2	2:N:1128:LEU:HD21	2.00	0.44
1:M:850:MET:HE1	1:M:1063:GLY:HA2	2.00	0.44
1:M:859:ASN:ND2	1:M:861:LEU:N	2.59	0.44
1:M:1129:ASP:O	1:M:1132:LYS:HB3	2.18	0.44
1:M:1195:LEU:HD22	1:M:1263:LEU:HD11	2.00	0.44
2:N:235:LEU:O	2:N:240:ARG:HG2	2.17	0.44
2:N:634:GLU:C	2:N:636:ASP:N	2.71	0.44
4:P:176:ASP:O	4:P:178:LEU:N	2.50	0.44
8:T:90:ASP:C	8:T:92:TYR:H	2.20	0.44
10:V:6:ARG:HG2	10:V:13:VAL:HA	1.98	0.44
10:V:9:SER:OG	10:V:47:ARG:NH2	2.51	0.44
12:X:57:VAL:O	12:X:58:ILE:CB	2.66	0.44
1:A:53:LEU:O	1:A:54:ASN:C	2.55	0.44
1:A:208:ILE:HG23	1:A:212:PHE:CE1	2.52	0.44
1:A:410:ASN:O	1:A:411:GLY:C	2.55	0.44
1:A:417:ARG:C	1:A:418:TYR:CD2	2.91	0.44
1:A:739:LYS:C	1:A:741:LEU:H	2.20	0.44
1:A:895:HIS:O	1:A:899:TYR:HB3	2.17	0.44
1:A:1294:VAL:HG13	1:A:1295:PRO:CD	2.48	0.44
2:B:518:ALA:O	2:B:768:THR:HG23	2.17	0.44
2:B:545:GLU:HA	2:B:548:ILE:HB	2.00	0.44
2:B:758:PHE:CE2	2:B:1044:ALA:HA	2.53	0.44
2:B:843:GLN:O	2:B:846:ILE:N	2.51	0.44
2:B:956:THR:HG22	2:B:957:ASN:O	2.17	0.44
3:C:87:CYS:O	3:C:87:CYS:SG	2.75	0.44
4:D:105:THR:O	4:D:105:THR:HG22	2.17	0.44
5:E:133:THR:C	5:E:134:PHE:HD1	2.20	0.44
7:G:45:ILE:HA	7:G:78:VAL:CG1	2.44	0.44
10:J:9:SER:OG	10:J:47:ARG:NH2	2.51	0.44
10:J:55:LEU:O	10:J:56:ILE:C	2.56	0.44
1:M:410:ASN:O	1:M:411:GLY:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:852:HIS:HB2	1:M:856:THR:CG2	2.47	0.44
1:M:1388:THR:O	1:M:1390:HIS:N	2.51	0.44
2:N:370:PHE:HD2	2:N:374:MET:HE3	1.83	0.44
2:N:489:ARG:HB3	2:N:489:ARG:HH11	1.82	0.44
2:N:605:GLU:O	2:N:605:GLU:HG2	2.18	0.44
2:N:755:ILE:HG22	2:N:809:MET:HE2	1.98	0.44
2:N:773:MET:SD	2:N:987:LYS:HB3	2.58	0.44
2:N:845:SER:O	2:N:850:LEU:HB3	2.18	0.44
2:N:956:THR:HG22	2:N:957:ASN:O	2.17	0.44
3:O:59:ASP:HB3	12:X:69:PHE:CZ	2.53	0.44
5:Q:102:LYS:HB3	5:Q:104:PHE:CE2	2.53	0.44
6:R:73:ALA:O	6:R:74:ILE:HB	2.18	0.44
7:S:160:ILE:CG2	7:S:161:GLY:N	2.81	0.44
8:T:19:ARG:C	8:T:20:TYR:HD2	2.21	0.44
8:T:107:ASP:O	8:T:108:GLU:C	2.56	0.44
12:X:63:THR:HG22	12:X:65:ARG:HG3	1.98	0.44
1:A:333:LYS:CA	1:A:338:ARG:HD2	2.48	0.44
1:A:465:PRO:O	1:A:466:TYR:O	2.36	0.44
1:A:479:TYR:O	1:A:480:ASN:HB3	2.18	0.44
1:A:630:LEU:C	1:A:630:LEU:HD23	2.38	0.44
1:A:801:VAL:HG13	1:A:809:LEU:CD1	2.43	0.44
2:B:845:SER:O	2:B:850:LEU:HB3	2.18	0.44
5:E:89:ILE:CG2	5:E:118:SER:CB	2.77	0.44
5:E:89:ILE:CG1	5:E:118:SER:HB2	2.48	0.44
1:M:40:ILE:C	1:M:41:MET:HG3	2.38	0.44
1:M:62:ASP:O	1:M:63:ARG:HB2	2.18	0.44
1:M:444:LEU:HD22	1:M:444:LEU:HA	1.79	0.44
1:M:538:ARG:NH2	8:T:121:LEU:HD12	2.25	0.44
1:M:549:ASN:ND2	11:W:47:ARG:NH2	2.65	0.44
1:M:630:LEU:C	1:M:630:LEU:HD23	2.38	0.44
1:M:835:THR:CG2	1:M:836:GLY:N	2.81	0.44
2:N:518:ALA:O	2:N:768:THR:HG23	2.17	0.44
2:N:821:GLN:NE2	2:N:850:LEU:HD12	2.32	0.44
2:N:859:TYR:OH	2:N:941:LEU:CD1	2.64	0.44
2:N:882:THR:HG21	2:N:884:ARG:HB2	1.99	0.44
4:P:50:ALA:CB	4:P:139:PRO:O	2.65	0.44
5:Q:115:ILE:HG22	5:Q:116:THR:N	2.32	0.44
10:V:55:LEU:O	10:V:57:GLU:N	2.51	0.44
11:W:13:PRO:O	11:W:14:ASP:C	2.56	0.44
1:A:312:GLN:CB	1:A:313:PRO:CD	2.96	0.43
1:A:776:ILE:CD1	1:A:816:PHE:CA	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:869:TYR:CD2	1:A:1060:VAL:HG21	2.52	0.43
1:A:1129:ASP:O	1:A:1132:LYS:HB3	2.18	0.43
1:A:1157:ASP:OD2	1:A:1163:THR:HA	2.18	0.43
1:A:1294:VAL:HA	1:A:1295:PRO:HD3	1.75	0.43
2:B:77:ILE:HA	2:B:120:GLU:O	2.17	0.43
2:B:376:ASN:C	2:B:380:LEU:HD13	2.38	0.43
2:B:605:GLU:HG2	2:B:605:GLU:O	2.18	0.43
2:B:812:LEU:C	2:B:814:PHE:H	2.21	0.43
4:D:140:PHE:CZ	7:G:85:GLU:HG3	2.41	0.43
5:E:54:ARG:C	5:E:56:LEU:H	2.20	0.43
5:E:102:LYS:HB3	5:E:104:PHE:CE2	2.53	0.43
6:F:124:GLU:O	6:F:130:ILE:HG13	2.18	0.43
8:H:42:ILE:CG2	8:H:43:ASN:N	2.81	0.43
8:H:134:LEU:HD13	8:H:136:GLN:HE22	1.76	0.43
11:K:24:ASP:OD1	11:K:26:ARG:HB2	2.18	0.43
12:L:57:VAL:O	12:L:58:ILE:CB	2.66	0.43
1:M:200:ARG:HH11	1:M:200:ARG:HB3	1.82	0.43
1:M:1294:VAL:HA	1:M:1295:PRO:HD3	1.75	0.43
2:N:31:VAL:O	2:N:32:SER:C	2.54	0.43
2:N:799:PRO:O	2:N:800:GLN:HG3	2.17	0.43
2:N:898:LEU:HD13	2:N:952:VAL:CG1	2.48	0.43
2:N:1159:ARG:CD	2:N:1193:GLN:NE2	2.79	0.43
2:N:1223:VAL:O	2:N:1224:SER:CB	2.59	0.43
4:P:88:GLU:C	4:P:90:ALA:N	2.71	0.43
7:S:22:MET:O	7:S:23:ASN:C	2.56	0.43
7:S:153:ASP:CG	7:S:154:VAL:HG23	2.38	0.43
8:T:42:ILE:CG2	8:T:43:ASN:N	2.81	0.43
1:A:39:GLU:O	1:A:53:LEU:CB	2.66	0.43
1:A:354:ILE:HG23	1:A:488:MET:HG3	1.99	0.43
1:A:498:THR:HG21	2:B:1149:GLU:OE1	2.17	0.43
2:B:54:PRO:HB2	2:B:79:PHE:CD1	2.53	0.43
2:B:287:GLY:CA	2:B:290:LEU:HD23	2.48	0.43
2:B:381:CYS:C	2:B:383:LEU:N	2.70	0.43
2:B:898:LEU:HD13	2:B:952:VAL:CG1	2.48	0.43
2:B:956:THR:HG22	2:B:957:ASN:N	2.34	0.43
2:B:1074:ASN:HB2	2:B:1081:LEU:HD21	2.00	0.43
2:B:1110:PRO:HG2	2:B:1119:VAL:CG2	2.47	0.43
5:E:134:PHE:CB	5:E:139:LEU:HD11	2.42	0.43
7:G:117:ASP:O	7:G:119:LEU:N	2.51	0.43
8:H:19:ARG:O	8:H:20:TYR:HD2	2.01	0.43
1:M:86:LEU:CG	1:M:238:THR:O	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:606:MET:HG2	1:M:622:THR:HG23	2.00	0.43
1:M:780:PHE:CE2	2:N:510:THR:HA	2.54	0.43
1:M:1316:LEU:C	1:M:1318:GLU:N	2.70	0.43
2:N:77:ILE:HA	2:N:120:GLU:O	2.17	0.43
2:N:401:LEU:O	2:N:404:PRO:HD2	2.18	0.43
2:N:812:LEU:C	2:N:814:PHE:H	2.21	0.43
2:N:1120:GLU:CG	2:N:1121:GLY:N	2.81	0.43
4:P:105:THR:O	4:P:105:THR:HG22	2.17	0.43
5:Q:166:ARG:HD3	5:Q:166:ARG:HA	1.77	0.43
6:R:79:ARG:HG2	6:R:144:GLU:OE1	2.17	0.43
6:R:83:PRO:HA	6:R:146:TRP:CZ3	2.53	0.43
7:S:153:ASP:CG	7:S:154:VAL:N	2.67	0.43
8:T:12:VAL:HB	8:T:52:ASP:H	1.83	0.43
9:U:61:ASP:C	9:U:63:GLY:H	2.21	0.43
9:U:108:LYS:CG	9:U:109:THR:H	2.31	0.43
10:V:1:MET:N	10:V:55:LEU:HB2	2.33	0.43
1:A:173:PRO:HB3	1:A:186:TRP:CD2	2.52	0.43
1:A:344:LYS:HB3	2:B:1117:GLN:OE1	2.17	0.43
1:A:496:GLU:HB3	6:F:99:LEU:HB3	1.99	0.43
1:A:568:LYS:HB2	1:A:569:PRO:HD3	1.96	0.43
1:A:887:ILE:HG22	1:A:888:PRO:N	2.34	0.43
1:A:1122:LEU:HD23	1:A:1126:ILE:O	2.18	0.43
1:A:1168:ASP:O	1:A:1169:PHE:C	2.57	0.43
1:A:1345:GLU:OE2	5:E:211:ARG:NH1	2.51	0.43
1:A:1353:LYS:O	1:A:1357:ASN:ND2	2.51	0.43
2:B:799:PRO:O	2:B:800:GLN:HG3	2.17	0.43
2:B:1010:LEU:HD23	2:B:1092:TYR:CE1	2.52	0.43
5:E:160:LYS:HD2	5:E:194:VAL:HG23	2.01	0.43
5:E:179:ARG:HH21	5:E:191:ARG:HB2	1.82	0.43
1:M:135:PHE:HB2	1:M:224:GLY:N	2.34	0.43
1:M:267:LEU:HD21	1:M:304:TYR:CZ	2.54	0.43
1:M:1279:ILE:O	1:M:1280:PRO:C	2.50	0.43
2:N:281:LEU:HD13	2:N:368:THR:CB	2.48	0.43
2:N:523:GLY:O	2:N:524:GLN:C	2.56	0.43
2:N:1189:THR:HG22	2:N:1190:ASN:N	2.33	0.43
3:O:128:ASN:O	3:O:129:VAL:HB	2.17	0.43
5:Q:84:GLU:OE2	5:Q:91:THR:HG21	2.19	0.43
9:U:32:CYS:O	9:U:33:ASP:CG	2.56	0.43
1:A:65:PHE:O	1:A:66:LYS:C	2.56	0.43
1:A:135:PHE:HB2	1:A:224:GLY:N	2.34	0.43
1:A:267:LEU:HD21	1:A:304:TYR:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:540:ILE:N	2:B:605:GLU:OE2	2.51	0.43
2:B:1197:PRO:HG2	2:B:1200:ALA:HB2	2.00	0.43
3:C:32:LEU:CD1	3:C:36:MET:HE2	2.47	0.43
7:G:154:VAL:HB	7:G:155:ASN:H	1.56	0.43
11:K:13:PRO:O	11:K:14:ASP:C	2.56	0.43
1:M:65:PHE:O	1:M:66:LYS:C	2.56	0.43
1:M:356:GLY:N	1:M:483:PHE:CZ	2.87	0.43
1:M:456:MET:HE3	2:N:1134:GLU:HG3	2.01	0.43
1:M:498:THR:HG21	2:N:1149:GLU:OE1	2.18	0.43
1:M:710:THR:HG22	1:M:712:ARG:N	2.25	0.43
1:M:716:GLU:O	1:M:718:GLU:N	2.51	0.43
1:M:1122:LEU:HD23	1:M:1126:ILE:O	2.18	0.43
1:M:1168:ASP:O	1:M:1169:PHE:C	2.57	0.43
1:M:1222:PHE:CD1	1:M:1226:LEU:HD23	2.54	0.43
1:M:1353:LYS:O	1:M:1357:ASN:ND2	2.51	0.43
2:N:103:GLU:O	2:N:104:ALA:C	2.56	0.43
2:N:532:LEU:HD22	2:N:536:SER:OG	2.19	0.43
2:N:597:ARG:HH11	2:N:688:GLU:HG2	1.81	0.43
2:N:609:ILE:HG13	2:N:694:GLU:HA	2.00	0.43
2:N:955:THR:N	2:N:963:PHE:O	2.51	0.43
2:N:1010:LEU:HD23	2:N:1092:TYR:CE1	2.52	0.43
5:Q:32:GLU:C	5:Q:34:MET:N	2.72	0.43
8:T:27:ILE:HA	8:T:38:LEU:O	2.18	0.43
8:T:58:THR:CG2	8:T:59:LEU:N	2.82	0.43
1:A:62:ASP:O	1:A:63:ARG:HB2	2.18	0.43
1:A:786:PRO:HG2	1:A:787:HIS:CD2	2.53	0.43
1:A:835:THR:CG2	1:A:836:GLY:N	2.81	0.43
1:A:839:GLN:O	1:A:843:VAL:HG23	2.19	0.43
2:B:103:GLU:O	2:B:104:ALA:C	2.56	0.43
2:B:317:GLN:O	2:B:318:ASP:HB3	2.19	0.43
2:B:1013:ASN:OD1	2:B:1015:HIS:HB2	2.19	0.43
3:C:166:GLU:C	11:K:6:ARG:NH1	2.72	0.43
5:E:84:GLU:OE2	5:E:91:THR:HG21	2.19	0.43
5:E:136:GLU:C	5:E:138:ASP:H	2.22	0.43
8:H:91:ASP:C	8:H:92:TYR:CD1	2.91	0.43
9:I:108:LYS:CG	9:I:109:THR:H	2.31	0.43
11:K:10:PHE:HA	11:K:37:ARG:HB3	2.01	0.43
1:M:786:PRO:HG2	1:M:787:HIS:CD2	2.53	0.43
1:M:999:LEU:HD13	1:M:1020:PHE:HE2	1.82	0.43
2:N:540:ILE:N	2:N:605:GLU:OE2	2.51	0.43
2:N:633:VAL:O	2:N:644:GLU:O	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:956:THR:HG22	2:N:957:ASN:N	2.33	0.43
2:N:1108:ARG:CG	2:N:1108:ARG:O	2.67	0.43
4:P:50:ALA:HB2	4:P:139:PRO:O	2.18	0.43
4:P:54:SER:HB3	4:P:113:ALA:CA	2.47	0.43
4:P:141:GLU:C	4:P:143:ALA:H	2.22	0.43
5:Q:160:LYS:HD2	5:Q:194:VAL:HG23	2.01	0.43
6:R:75:LEU:C	6:R:77:GLU:N	2.69	0.43
10:V:55:LEU:O	10:V:56:ILE:C	2.56	0.43
1:A:520:PRO:HD3	1:A:632:HIS:CD2	2.54	0.43
1:A:780:PHE:CE2	2:B:510:THR:HA	2.54	0.43
2:B:22:SER:HA	2:B:811:TYR:CE2	2.49	0.43
2:B:588:MET:O	2:B:589:LEU:C	2.56	0.43
2:B:702:MET:H	2:B:707:LEU:HD12	1.83	0.43
2:B:838:SER:HA	2:B:989:THR:O	2.19	0.43
2:B:1106:ARG:HG3	2:B:1107:ALA:N	2.33	0.43
2:B:1189:THR:HG22	2:B:1190:ASN:N	2.33	0.43
2:B:1197:PRO:O	2:B:1200:ALA:N	2.50	0.43
3:C:16:GLU:O	3:C:17:VAL:CG2	2.67	0.43
3:C:59:ASP:HB3	12:L:69:PHE:CZ	2.52	0.43
4:D:41:HIS:HB2	7:G:73:LYS:HZ1	1.77	0.43
4:D:48:LEU:HD12	4:D:49:ILE:H	1.82	0.43
4:D:50:ALA:HB2	4:D:139:PRO:O	2.18	0.43
5:E:160:LYS:HG3	5:E:194:VAL:HG21	2.00	0.43
6:F:111:ILE:O	6:F:113:GLY:N	2.47	0.43
7:G:111:SER:C	7:G:113:ARG:H	2.21	0.43
8:H:27:ILE:HA	8:H:38:LEU:O	2.18	0.43
8:H:58:THR:CG2	8:H:59:LEU:N	2.82	0.43
10:J:3:ILE:HA	10:J:4:PRO:HD3	1.80	0.43
1:M:312:GLN:CB	1:M:313:PRO:CD	2.96	0.43
1:M:333:LYS:CA	1:M:338:ARG:HD2	2.49	0.43
1:M:520:PRO:HD3	1:M:632:HIS:CD2	2.54	0.43
1:M:568:LYS:HB2	1:M:569:PRO:HD3	1.96	0.43
1:M:826:ILE:O	1:M:830:VAL:HG23	2.18	0.43
1:M:1153:GLU:HG2	9:U:45:ARG:HG3	2.01	0.43
2:N:167:SER:O	2:N:173:ARG:HB3	2.18	0.43
2:N:376:ASN:C	2:N:380:LEU:HD13	2.38	0.43
2:N:459:TRP:HA	2:N:459:TRP:HE3	1.82	0.43
2:N:586:PRO:O	2:N:587:SER:C	2.57	0.43
2:N:1100:ASP:OD2	11:W:1:MET:HB2	2.19	0.43
2:N:1202:LEU:CD2	2:N:1206:GLU:CD	2.87	0.43
4:P:84:ILE:C	4:P:86:ASP:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:123:LYS:HE3	6:R:123:LYS:HB2	1.82	0.43
7:S:13:LEU:CD2	7:S:17:TYR:HB2	2.45	0.43
10:V:36:ASP:CG	10:V:46:ARG:NH2	2.72	0.43
1:A:254:ASP:O	1:A:255:GLU:HG3	2.19	0.43
1:A:306:ASP:OD2	1:A:327:ARG:HD3	2.18	0.43
1:A:356:GLY:N	1:A:483:PHE:CZ	2.87	0.43
1:A:630:LEU:CA	1:A:633:THR:CG2	2.97	0.43
1:A:883:THR:HA	1:A:954:HIS:O	2.19	0.43
1:A:964:ARG:O	1:A:967:GLN:N	2.51	0.43
2:B:410:PHE:O	2:B:413:LEU:HB2	2.19	0.43
2:B:508:HIS:HD2	2:B:510:THR:OG1	2.02	0.43
2:B:532:LEU:HD22	2:B:536:SER:OG	2.19	0.43
2:B:874:PHE:HA	2:B:913:GLY:O	2.19	0.43
2:B:1120:GLU:CG	2:B:1121:GLY:N	2.81	0.43
2:B:1202:LEU:CD2	2:B:1206:GLU:CD	2.87	0.43
3:C:131:GLU:HA	3:C:132:PRO:HD3	1.74	0.43
5:E:21:MET:HE2	5:E:25:ARG:HE	1.84	0.43
5:E:32:GLU:C	5:E:34:MET:N	2.72	0.43
5:E:163:LEU:HD13	5:E:210:TYR:CE2	2.54	0.43
6:F:83:PRO:HA	6:F:146:TRP:CZ3	2.53	0.43
10:J:1:MET:N	10:J:55:LEU:HB2	2.33	0.43
1:M:479:TYR:O	1:M:480:ASN:HB3	2.18	0.43
1:M:591:ARG:O	1:M:592:THR:CB	2.66	0.43
1:M:1081:MET:HG2	1:M:1362:ASP:OD2	2.18	0.43
1:M:1294:VAL:HG13	1:M:1295:PRO:CD	2.48	0.43
2:N:54:PRO:HB2	2:N:79:PHE:CD1	2.53	0.43
2:N:545:GLU:HA	2:N:548:ILE:HB	2.00	0.43
2:N:838:SER:HA	2:N:989:THR:O	2.19	0.43
2:N:969:ARG:NH1	3:O:60:GLU:OE1	2.51	0.43
2:N:1013:ASN:OD1	2:N:1015:HIS:HB2	2.19	0.43
2:N:1065:GLN:HE21	2:N:1067:ARG:N	2.17	0.43
2:N:1106:ARG:HG3	2:N:1107:ALA:N	2.33	0.43
3:O:99:GLU:N	3:O:119:ILE:CG1	2.82	0.43
3:O:181:ASP:CG	3:O:181:ASP:O	2.57	0.43
6:R:73:ALA:O	6:R:74:ILE:CB	2.67	0.43
7:S:129:ALA:HB1	7:S:137:ILE:O	2.18	0.43
10:V:3:ILE:HA	10:V:4:PRO:HD3	1.80	0.43
1:A:90:VAL:O	1:A:236:ILE:HG23	2.19	0.43
1:A:262:ASP:O	1:A:265:HIS:HB2	2.18	0.43
1:A:346:VAL:CG1	2:B:1130:PHE:HB2	2.48	0.43
1:A:757:ILE:H	1:A:757:ILE:HG13	1.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1153:GLU:HG2	9:I:45:ARG:HG3	2.01	0.43
1:A:1371:MET:H	1:A:1371:MET:HE2	1.82	0.43
2:B:586:PRO:O	2:B:587:SER:C	2.57	0.43
2:B:1162:VAL:HA	2:B:1168:LEU:O	2.19	0.43
3:C:68:LEU:N	3:C:68:LEU:HD12	2.34	0.43
3:C:168:ALA:C	3:C:170:TRP:N	2.72	0.43
4:D:67:ARG:C	4:D:69:ARG:N	2.71	0.43
5:E:177:ILE:HG22	5:E:212:ILE:O	2.19	0.43
7:G:153:ASP:O	7:G:154:VAL:O	2.37	0.43
1:M:116:ASP:C	1:M:118:THR:N	2.71	0.43
1:M:262:ASP:O	1:M:265:HIS:HB2	2.18	0.43
1:M:306:ASP:OD1	1:M:307:ASN:N	2.52	0.43
1:M:471:LEU:HD12	1:M:471:LEU:O	2.19	0.43
1:M:553:TRP:HE1	11:W:62:LYS:CB	2.13	0.43
1:M:667:ILE:CD1	1:M:668:GLY:N	2.82	0.43
1:M:1044:PHE:CD2	1:M:1048:LEU:HD11	2.54	0.43
1:M:1157:ASP:OD2	1:M:1163:THR:HA	2.18	0.43
5:Q:163:LEU:HD13	5:Q:210:TYR:CE2	2.54	0.43
5:Q:177:ILE:HG22	5:Q:212:ILE:O	2.19	0.43
11:W:10:PHE:HA	11:W:37:ARG:HB3	2.01	0.43
1:A:86:LEU:CG	1:A:238:THR:O	2.66	0.43
1:A:471:LEU:HD12	1:A:471:LEU:O	2.19	0.43
1:A:689:GLU:C	1:A:691:VAL:N	2.71	0.43
1:A:1072:GLN:O	1:A:1073:SER:C	2.57	0.43
1:A:1081:MET:HG2	1:A:1362:ASP:OD2	2.18	0.43
1:A:1195:LEU:HD22	1:A:1263:LEU:HD11	2.00	0.43
1:A:1393:ASN:CG	1:A:1405:PHE:HD2	2.22	0.43
1:A:1450:GLU:CG	7:G:22:MET:CG	2.93	0.43
2:B:180:LEU:O	2:B:182:LYS:N	2.52	0.43
2:B:773:MET:SD	2:B:987:LYS:HB3	2.58	0.43
2:B:969:ARG:NH1	3:C:60:GLU:OE1	2.51	0.43
3:C:128:ASN:O	3:C:129:VAL:HB	2.17	0.43
3:C:221:TYR:CD1	3:C:222:LYS:N	2.87	0.43
4:D:25:ALA:C	4:D:27:LEU:N	2.70	0.43
4:D:141:GLU:C	4:D:143:ALA:H	2.22	0.43
7:G:22:MET:O	7:G:23:ASN:C	2.56	0.43
7:G:22:MET:O	7:G:25:TYR:N	2.51	0.43
8:H:3:SER:O	8:H:60:ALA:HB1	2.18	0.43
10:J:55:LEU:O	10:J:57:GLU:N	2.51	0.43
1:M:93:ILE:HG22	1:M:305:MET:HE3	2.01	0.43
1:M:505:LEU:HD11	6:R:91:ALA:HB1	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:518:ASN:HB2	1:M:879:VAL:O	2.18	0.43
1:M:689:GLU:C	1:M:691:VAL:N	2.71	0.43
1:M:1345:GLU:OE2	5:Q:211:ARG:NH1	2.51	0.43
2:N:843:GLN:O	2:N:846:ILE:N	2.51	0.43
2:N:1085:VAL:CG1	2:N:1086:PHE:N	2.81	0.43
2:N:1162:VAL:HA	2:N:1168:LEU:O	2.19	0.43
2:N:1177:LYS:O	2:N:1179:GLN:N	2.43	0.43
3:O:16:GLU:O	3:O:17:VAL:CG2	2.67	0.43
5:Q:136:GLU:C	5:Q:138:ASP:H	2.22	0.43
1:A:75:ALA:O	1:A:76:GLU:CB	2.67	0.43
1:A:344:LYS:HB3	2:B:1117:GLN:CD	2.39	0.43
1:A:417:ARG:O	1:A:418:TYR:CD2	2.69	0.43
1:A:591:ARG:O	1:A:592:THR:CB	2.66	0.43
1:A:609:VAL:O	1:A:611:GLY:N	2.52	0.43
2:B:630:LEU:HA	2:B:743:ILE:HD11	2.00	0.43
2:B:839:MET:HE3	2:B:1010:LEU:HD21	2.01	0.43
2:B:1108:ARG:O	2:B:1108:ARG:CG	2.67	0.43
2:B:1204:PHE:O	2:B:1205:GLN:C	2.57	0.43
3:C:119:ILE:CG1	3:C:120:LYS:N	2.81	0.43
3:C:181:ASP:CG	3:C:181:ASP:O	2.57	0.43
8:H:10:PHE:N	8:H:10:PHE:CD1	2.86	0.43
8:H:26:ILE:CG2	8:H:27:ILE:N	2.82	0.43
9:I:50:THR:HG22	9:I:52:ILE:H	1.83	0.43
10:J:21:TYR:C	10:J:23:ARG:H	2.23	0.43
1:M:839:GLN:O	1:M:843:VAL:HG23	2.18	0.43
1:M:887:ILE:HG22	1:M:888:PRO:N	2.34	0.43
1:M:902:LEU:N	1:M:927:GLN:NE2	2.62	0.43
1:M:941:ARG:HG2	1:M:941:ARG:NH1	2.32	0.43
1:M:948:VAL:HG12	1:M:949:PHE:CD2	2.54	0.43
1:M:1449:ASP:OD1	1:M:1452:LEU:CG	2.67	0.43
2:N:180:LEU:O	2:N:182:LYS:N	2.52	0.43
2:N:295:TYR:N	2:N:295:TYR:CD2	2.87	0.43
2:N:777:ALA:HA	2:N:1095:LEU:HA	2.00	0.43
2:N:874:PHE:HA	2:N:913:GLY:O	2.19	0.43
2:N:1074:ASN:HB2	2:N:1081:LEU:HD21	2.00	0.43
3:O:96:VAL:HG12	3:O:98:LEU:HD21	2.00	0.43
4:P:48:LEU:HD12	4:P:49:ILE:H	1.82	0.43
4:P:140:PHE:CZ	7:S:85:GLU:HG3	2.41	0.43
7:S:111:SER:C	7:S:113:ARG:H	2.21	0.43
1:A:200:ARG:HH11	1:A:200:ARG:HB3	1.82	0.42
1:A:916:TYR:CG	1:A:920:ILE:HD12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1415:ALA:HA	1:A:1420:GLU:OE2	2.19	0.42
2:B:843:GLN:O	2:B:846:ILE:HB	2.19	0.42
2:B:954:LEU:O	12:L:57:VAL:O	2.37	0.42
2:B:984:HIS:HB3	2:B:1022:THR:OG1	2.18	0.42
2:B:1065:GLN:HE21	2:B:1067:ARG:N	2.17	0.42
2:B:1100:ASP:OD2	11:K:1:MET:HB2	2.19	0.42
2:B:1166:CYS:HA	4:D:15:ALA:CA	2.49	0.42
3:C:96:VAL:HG12	3:C:98:LEU:HD21	2.00	0.42
7:G:125:ASN:CG	7:G:128:PRO:HA	2.40	0.42
12:L:42:LEU:HB3	12:L:43:ASN:H	1.64	0.42
1:M:39:GLU:O	1:M:53:LEU:CB	2.66	0.42
1:M:265:HIS:C	1:M:267:LEU:N	2.72	0.42
1:M:609:VAL:O	1:M:611:GLY:N	2.52	0.42
1:M:764:ALA:C	1:M:804:SER:HB3	2.38	0.42
2:N:508:HIS:HD2	2:N:510:THR:OG1	2.01	0.42
2:N:843:GLN:O	2:N:846:ILE:HB	2.19	0.42
2:N:899:ILE:HD11	2:N:911:ILE:CG2	2.42	0.42
2:N:1071:VAL:O	2:N:1072:MET:HG2	2.19	0.42
2:N:1197:PRO:O	2:N:1200:ALA:N	2.49	0.42
3:O:166:GLU:C	11:W:6:ARG:NH1	2.72	0.42
4:P:122:THR:CB	4:P:126:GLN:HE21	2.32	0.42
5:Q:54:ARG:C	5:Q:56:LEU:H	2.21	0.42
7:S:89:ALA:CB	7:S:103:VAL:CG2	2.96	0.42
7:S:129:ALA:HB2	7:S:138:THR:OG1	2.19	0.42
8:T:10:PHE:CD1	8:T:10:PHE:N	2.86	0.42
8:T:19:ARG:O	8:T:20:TYR:HD2	2.01	0.42
12:X:50:CYS:O	12:X:52:GLU:N	2.42	0.42
1:A:181:LYS:HZ1	1:A:295:GLN:HB3	1.80	0.42
1:A:321:ARG:HG3	1:A:321:ARG:HH11	1.83	0.42
1:A:538:ARG:NH2	8:H:121:LEU:HD12	2.25	0.42
1:A:649:ASN:O	1:A:650:ILE:C	2.55	0.42
1:A:776:ILE:CG2	1:A:819:MET:SD	3.03	0.42
2:B:186:CYS:HB2	2:B:784:ASN:OD1	2.19	0.42
2:B:401:LEU:O	2:B:404:PRO:HD2	2.18	0.42
2:B:523:GLY:O	2:B:524:GLN:C	2.56	0.42
2:B:1125:ASP:O	2:B:1126:GLY:O	2.37	0.42
3:C:28:LEU:HA	11:K:45:LEU:CD1	2.49	0.42
3:C:236:GLY:O	3:C:237:SER:C	2.58	0.42
3:C:248:ILE:HG23	11:K:98:LEU:HD22	2.00	0.42
4:D:67:ARG:O	4:D:71:ARG:HB2	2.19	0.42
4:D:122:THR:CB	4:D:126:GLN:HE21	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:6:ASP:HB3	7:G:73:LYS:HZ1	1.84	0.42
7:G:80:LYS:HA	7:G:81:PRO:HD2	1.88	0.42
7:G:129:ALA:HB1	7:G:137:ILE:O	2.18	0.42
9:I:14:LEU:HD13	9:I:28:SER:N	2.33	0.42
1:M:254:ASP:O	1:M:255:GLU:HG3	2.19	0.42
1:M:548:MET:HB3	11:W:58:PHE:HE1	1.84	0.42
1:M:710:THR:CG2	9:U:94:ASP:HA	2.49	0.42
1:M:761:GLN:HG2	1:M:766:VAL:O	2.19	0.42
1:M:771:VAL:HG12	1:M:772:GLU:N	2.34	0.42
1:M:1274:ILE:O	1:M:1274:ILE:HG22	2.18	0.42
1:M:1276:LEU:N	1:M:1276:LEU:CD1	2.82	0.42
1:M:1388:THR:C	1:M:1390:HIS:N	2.71	0.42
2:N:87:PRO:HG3	2:N:163:ILE:HD12	2.02	0.42
2:N:174:THR:O	2:N:175:LEU:C	2.58	0.42
2:N:317:GLN:O	2:N:318:ASP:HB3	2.19	0.42
2:N:609:ILE:HD12	2:N:609:ILE:H	1.83	0.42
2:N:1125:ASP:O	2:N:1126:GLY:O	2.37	0.42
3:O:28:LEU:HA	11:W:45:LEU:CD1	2.49	0.42
1:A:265:HIS:C	1:A:267:LEU:N	2.72	0.42
1:A:306:ASP:OD1	1:A:307:ASN:N	2.52	0.42
1:A:548:MET:HB3	11:K:58:PHE:HE1	1.84	0.42
1:A:1125:GLU:O	1:A:1126:ILE:C	2.57	0.42
1:A:1199:LEU:HD11	1:A:1240:ILE:HD11	2.01	0.42
2:B:633:VAL:O	2:B:644:GLU:O	2.37	0.42
2:B:800:GLN:CG	10:J:51:THR:HG22	2.42	0.42
2:B:1085:VAL:CG1	2:B:1086:PHE:N	2.82	0.42
3:C:189:THR:CG2	3:C:190:ASP:N	2.82	0.42
6:F:75:LEU:C	6:F:77:GLU:N	2.69	0.42
10:J:36:ASP:CG	10:J:46:ARG:NH2	2.72	0.42
1:M:20:GLY:HA2	1:M:1416:GLY:O	2.19	0.42
1:M:212:PHE:HA	1:M:215:ILE:CD1	2.49	0.42
1:M:882:GLN:NE2	1:M:961:ASN:HA	2.35	0.42
1:M:883:THR:HA	1:M:954:HIS:O	2.19	0.42
1:M:1199:LEU:HD11	1:M:1240:ILE:HD11	2.01	0.42
1:M:1298:SER:O	1:M:1298:SER:OG	2.37	0.42
1:M:1410:GLU:CD	1:M:1410:GLU:N	2.65	0.42
2:N:363:PHE:HD2	2:N:366:ARG:HD2	1.84	0.42
2:N:381:CYS:O	2:N:383:LEU:N	2.52	0.42
2:N:428:CYS:C	2:N:430:GLU:H	2.22	0.42
2:N:799:PRO:CB	2:N:818:PRO:HG2	2.49	0.42
2:N:916:THR:HG22	2:N:918:ILE:HG13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1084:GLN:NE2	2:N:1084:GLN:N	2.67	0.42
3:O:236:GLY:O	3:O:237:SER:C	2.58	0.42
3:O:248:ILE:HG23	11:W:98:LEU:HD22	2.00	0.42
7:S:22:MET:O	7:S:25:TYR:N	2.51	0.42
7:S:125:ASN:CG	7:S:128:PRO:HA	2.40	0.42
10:V:21:TYR:C	10:V:23:ARG:H	2.23	0.42
11:W:40:HIS:ND1	11:W:61:TYR:OH	2.38	0.42
1:A:54:ASN:HB3	1:A:248:ARG:NH2	2.31	0.42
1:A:1171:THR:O	1:A:1171:THR:HG22	2.20	0.42
1:A:1222:PHE:CD1	1:A:1226:LEU:HD23	2.54	0.42
1:A:1298:SER:O	1:A:1298:SER:OG	2.37	0.42
1:A:1352:TYR:HA	1:A:1355:ILE:CG2	2.50	0.42
2:B:630:LEU:CD2	2:B:742:GLU:HA	2.49	0.42
2:B:955:THR:N	2:B:963:PHE:O	2.51	0.42
9:I:61:ASP:C	9:I:63:GLY:H	2.21	0.42
10:J:46:ARG:HH11	10:J:46:ARG:CG	2.30	0.42
1:M:344:LYS:HE3	2:N:1151:LEU:CB	2.50	0.42
2:N:410:PHE:O	2:N:413:LEU:HB2	2.19	0.42
2:N:630:LEU:CD2	2:N:742:GLU:HA	2.49	0.42
2:N:702:MET:H	2:N:707:LEU:HD12	1.83	0.42
3:O:68:LEU:HD12	3:O:68:LEU:N	2.34	0.42
3:O:189:THR:CG2	3:O:190:ASP:N	2.82	0.42
7:S:154:VAL:HB	7:S:155:ASN:H	1.56	0.42
8:T:134:LEU:HD13	8:T:136:GLN:HE22	1.76	0.42
9:U:14:LEU:HD13	9:U:28:SER:N	2.33	0.42
11:W:76:GLN:HE21	11:W:76:GLN:HB3	1.53	0.42
1:A:39:GLU:OE1	1:A:39:GLU:N	2.53	0.42
1:A:344:LYS:HE3	2:B:1151:LEU:HB3	2.02	0.42
2:B:969:ARG:HG2	2:B:970:THR:H	1.84	0.42
4:D:84:ILE:C	4:D:86:ASP:H	2.22	0.42
6:F:73:ALA:O	6:F:74:ILE:CB	2.67	0.42
9:I:40:ASP:CG	9:I:41:PRO:CD	2.88	0.42
1:M:90:VAL:O	1:M:236:ILE:HG23	2.19	0.42
1:M:145:LYS:C	1:M:146:MET:HG3	2.39	0.42
1:M:167:GLY:O	1:M:168:CYS:SG	2.72	0.42
1:M:203:LEU:CG	1:M:207:GLU:N	2.82	0.42
1:M:306:ASP:OD2	1:M:327:ARG:HD3	2.18	0.42
1:M:859:ASN:C	1:M:861:LEU:H	2.23	0.42
1:M:1072:GLN:O	1:M:1073:SER:C	2.57	0.42
1:M:1415:ALA:HA	1:M:1420:GLU:OE2	2.19	0.42
2:N:480:THR:CG2	2:N:481:TYR:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:781:PHE:O	2:N:782:LEU:HD23	2.20	0.42
2:N:973:VAL:HG12	2:N:974:PRO:O	2.19	0.42
3:O:221:TYR:CD1	3:O:222:LYS:N	2.87	0.42
5:Q:160:LYS:HG3	5:Q:194:VAL:HG21	2.00	0.42
5:Q:185:ARG:O	5:Q:188:GLY:N	2.44	0.42
6:R:111:ILE:O	6:R:113:GLY:N	2.47	0.42
8:T:42:ILE:HG23	8:T:94:TYR:HE1	1.85	0.42
9:U:90:GLN:HE21	9:U:92:ARG:HD3	1.85	0.42
1:A:93:ILE:HG22	1:A:305:MET:HE3	2.01	0.42
1:A:781:ALA:O	1:A:783:ARG:HG2	2.19	0.42
1:A:1044:PHE:CD2	1:A:1048:LEU:HD11	2.54	0.42
2:B:78:ARG:CG	2:B:120:GLU:HB2	2.50	0.42
2:B:834:ASN:CA	2:B:838:SER:O	2.67	0.42
2:B:857:ARG:HH11	2:B:945:GLU:CD	2.23	0.42
2:B:1084:GLN:N	2:B:1084:GLN:NE2	2.67	0.42
3:C:146:LYS:HB2	10:J:56:ILE:HD11	2.02	0.42
8:H:117:PHE:O	8:H:119:GLY:N	2.53	0.42
1:M:75:ALA:O	1:M:76:GLU:CB	2.67	0.42
1:M:563:GLN:HA	1:M:564:PRO:HD3	1.80	0.42
1:M:1352:TYR:HA	1:M:1355:ILE:CG2	2.50	0.42
2:N:954:LEU:O	12:X:57:VAL:O	2.37	0.42
2:N:984:HIS:HB3	2:N:1022:THR:OG1	2.18	0.42
2:N:992:VAL:CG2	2:N:993:THR:H	2.27	0.42
2:N:1104:HIS:CG	2:N:1122:ARG:HB2	2.54	0.42
5:Q:189:LEU:C	5:Q:190:LYS:HG3	2.40	0.42
6:R:82:THR:HG22	6:R:84:TYR:HB2	2.01	0.42
7:S:12:THR:HG22	7:S:67:SER:HB3	2.01	0.42
8:T:91:ASP:C	8:T:92:TYR:CD1	2.92	0.42
8:T:112:LYS:HA	8:T:124:LEU:O	2.19	0.42
1:A:212:PHE:HA	1:A:215:ILE:CD1	2.49	0.42
1:A:1263:LEU:O	1:A:1263:LEU:CG	2.68	0.42
2:B:87:PRO:HG3	2:B:163:ILE:HD12	2.01	0.42
2:B:777:ALA:HA	2:B:1095:LEU:HA	2.00	0.42
2:B:806:THR:HB	2:B:809:MET:HG3	2.02	0.42
2:B:1104:HIS:CG	2:B:1122:ARG:HB2	2.54	0.42
3:C:220:ASP:OD1	3:C:220:ASP:C	2.58	0.42
4:D:35:ALA:C	4:D:37:LYS:N	2.70	0.42
5:E:90:LYS:O	5:E:92:MET:N	2.53	0.42
5:E:153:ILE:HG22	5:E:154:ARG:O	2.20	0.42
5:E:189:LEU:C	5:E:190:LYS:HG3	2.40	0.42
6:F:74:ILE:HD12	6:F:143:TYR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:40:GLY:HA2	7:G:157:ILE:HD11	2.02	0.42
11:K:43:ALA:O	11:K:46:LEU:N	2.52	0.42
1:M:67:CYS:O	1:M:67:CYS:SG	2.78	0.42
1:M:91:PHE:HB2	1:M:298:GLN:HE22	1.85	0.42
1:M:111:GLY:O	1:M:215:ILE:HA	2.20	0.42
3:O:220:ASP:OD1	3:O:220:ASP:C	2.58	0.42
4:P:35:ALA:O	4:P:37:LYS:N	2.53	0.42
4:P:52:SER:O	4:P:53:LEU:O	2.38	0.42
5:Q:90:LYS:O	5:Q:92:MET:N	2.53	0.42
7:S:74:TYR:N	7:S:74:TYR:CD2	2.87	0.42
7:S:153:ASP:O	7:S:154:VAL:O	2.37	0.42
8:T:5:LEU:N	8:T:60:ALA:HB2	2.35	0.42
10:V:35:LEU:CD1	10:V:46:ARG:NH1	2.82	0.42
1:A:568:LYS:HZ1	8:H:43:ASN:HB3	1.85	0.42
1:A:600:SER:HA	1:A:601:PRO:HD2	1.91	0.42
1:A:897:ARG:O	1:A:1031:ARG:HB3	2.20	0.42
1:A:948:VAL:HG12	1:A:949:PHE:CD2	2.54	0.42
1:A:1059:LEU:CG	1:A:1060:VAL:N	2.82	0.42
1:A:1448:ILE:HD11	7:G:68:ALA:HB1	2.01	0.42
1:A:1449:ASP:OD1	1:A:1452:LEU:CG	2.67	0.42
2:B:609:ILE:HD12	2:B:609:ILE:H	1.83	0.42
2:B:792:MET:CE	2:B:857:ARG:NH2	2.83	0.42
2:B:797:TYR:C	2:B:798:TYR:CD2	2.78	0.42
2:B:879:ARG:HB3	2:B:880:ALA:H	1.52	0.42
2:B:1031:LEU:HD11	2:B:1042:GLY:CA	2.50	0.42
2:B:1071:VAL:O	2:B:1072:MET:HG2	2.19	0.42
6:F:125:LEU:HA	6:F:130:ILE:HD11	2.02	0.42
7:G:49:LEU:O	7:G:50:ASP:C	2.58	0.42
7:G:129:ALA:HB2	7:G:138:THR:OG1	2.19	0.42
8:H:5:LEU:HD22	8:H:132:ALA:O	2.19	0.42
9:I:90:GLN:HE21	9:I:92:ARG:HD3	1.85	0.42
10:J:35:LEU:CD1	10:J:46:ARG:NH1	2.82	0.42
11:K:58:PHE:HE2	11:K:74:ARG:HD3	1.84	0.42
1:M:284:GLY:O	1:M:286:PRO:CD	2.65	0.42
1:M:321:ARG:HH11	1:M:321:ARG:HG3	1.83	0.42
1:M:664:SER:OG	1:M:665:ILE:N	2.52	0.42
1:M:911:PRO:HB3	1:M:917:ALA:HB1	1.84	0.42
1:M:1078:ALA:HA	1:M:1081:MET:CE	2.50	0.42
2:N:186:CYS:HB2	2:N:784:ASN:OD1	2.19	0.42
2:N:370:PHE:C	2:N:372:GLY:H	2.23	0.42
2:N:1197:PRO:HG2	2:N:1200:ALA:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:166:GLU:O	11:W:6:ARG:NH1	2.53	0.42
6:R:125:LEU:HA	6:R:130:ILE:HD11	2.02	0.42
8:T:3:SER:O	8:T:60:ALA:HB1	2.18	0.42
8:T:5:LEU:HD22	8:T:132:ALA:O	2.19	0.42
8:T:26:ILE:CG2	8:T:27:ILE:N	2.82	0.42
1:A:67:CYS:O	1:A:67:CYS:SG	2.78	0.42
1:A:111:GLY:O	1:A:215:ILE:HA	2.20	0.42
1:A:459:HIS:CE1	1:A:508:VAL:CG2	3.03	0.42
1:A:664:SER:OG	1:A:665:ILE:N	2.52	0.42
1:A:1388:THR:C	1:A:1390:HIS:N	2.71	0.42
1:A:1393:ASN:OD1	1:A:1405:PHE:HD2	2.03	0.42
2:B:222:PRO:O	2:B:223:SER:HB2	2.20	0.42
2:B:799:PRO:CB	2:B:818:PRO:HG2	2.50	0.42
5:E:116:THR:HA	5:E:117:PRO:HD3	1.95	0.42
7:G:89:ALA:CB	7:G:103:VAL:CG2	2.96	0.42
8:H:101:TYR:CD2	8:H:101:TYR:N	2.88	0.42
8:H:112:LYS:HA	8:H:124:LEU:O	2.19	0.42
11:K:49:GLU:OE1	11:K:97:LYS:HE3	2.20	0.42
1:M:41:MET:HE2	1:M:41:MET:H	1.85	0.42
1:M:321:ARG:HA	1:M:322:PRO:HD3	1.93	0.42
1:M:568:LYS:HD3	8:T:94:TYR:HA	2.02	0.42
1:M:667:ILE:HG12	2:N:1030:LEU:HD22	2.02	0.42
1:M:1043:ALA:O	1:M:1046:TRP:HB3	2.20	0.42
1:M:1125:GLU:O	1:M:1126:ILE:C	2.57	0.42
2:N:797:TYR:HB3	2:N:798:TYR:HD2	1.78	0.42
2:N:806:THR:HB	2:N:809:MET:HG3	2.02	0.42
2:N:1106:ARG:CG	2:N:1107:ALA:N	2.83	0.42
3:O:116:SER:HB3	3:O:140:GLN:HA	2.01	0.42
5:Q:136:GLU:O	5:Q:138:ASP:N	2.53	0.42
6:R:103:MET:CE	7:S:65:SER:O	2.67	0.42
7:S:40:GLY:HA2	7:S:157:ILE:HD11	2.02	0.42
9:U:50:THR:HG22	9:U:52:ILE:H	1.83	0.42
11:W:58:PHE:HE2	11:W:74:ARG:HD3	1.83	0.42
1:A:344:LYS:HE3	2:B:1151:LEU:CB	2.50	0.42
1:A:344:LYS:HD3	2:B:1117:GLN:NE2	2.35	0.42
1:A:344:LYS:CB	2:B:1117:GLN:OE1	2.68	0.42
1:A:589:LEU:O	1:A:607:LEU:HD12	2.20	0.42
1:A:606:MET:HG2	1:A:622:THR:HG21	2.02	0.42
2:B:174:THR:O	2:B:175:LEU:C	2.58	0.42
2:B:285:PRO:HD2	2:B:288:GLU:OE1	2.19	0.42
2:B:381:CYS:O	2:B:383:LEU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:781:PHE:O	2:B:782:LEU:HD23	2.20	0.42
2:B:912:ILE:CG2	2:B:913:GLY:N	2.83	0.42
2:B:936:ASP:OD1	2:B:936:ASP:C	2.58	0.42
3:C:100:LEU:HD12	3:C:100:LEU:HA	1.87	0.42
4:D:88:GLU:C	4:D:90:ALA:N	2.71	0.42
7:G:30:LEU:HD22	7:G:72:VAL:HG11	2.01	0.42
7:G:74:TYR:N	7:G:74:TYR:CD2	2.87	0.42
8:H:42:ILE:HG23	8:H:94:TYR:HE1	1.85	0.42
10:J:18:TRP:HZ3	10:J:49:VAL:HG13	1.85	0.42
1:M:781:ALA:O	1:M:783:ARG:HG2	2.19	0.42
1:M:838:ILE:HD11	1:M:1104:LYS:HG3	2.02	0.42
1:M:916:TYR:CG	1:M:920:ILE:HD12	2.54	0.42
1:M:1222:PHE:CG	1:M:1226:LEU:HD23	2.55	0.42
2:N:78:ARG:CG	2:N:120:GLU:HB2	2.50	0.42
2:N:231:ILE:HG21	2:N:374:MET:CE	2.49	0.42
2:N:588:MET:O	2:N:589:LEU:C	2.56	0.42
2:N:630:LEU:HA	2:N:743:ILE:HD11	2.00	0.42
2:N:857:ARG:HH11	2:N:945:GLU:CD	2.23	0.42
8:T:122:MET:HG2	8:T:123:CYS:N	2.34	0.42
10:V:12:LYS:O	10:V:14:VAL:HG23	2.20	0.42
11:W:49:GLU:OE1	11:W:97:LYS:HE3	2.20	0.42
1:A:91:PHE:HB2	1:A:298:GLN:HE22	1.85	0.41
1:A:606:MET:CE	1:A:613:VAL:HG13	2.50	0.41
1:A:756:PHE:O	1:A:757:ILE:C	2.58	0.41
1:A:859:ASN:C	1:A:861:LEU:H	2.23	0.41
1:A:861:LEU:HD23	1:A:861:LEU:HA	1.92	0.41
1:A:1199:LEU:HD11	1:A:1240:ILE:CD1	2.50	0.41
2:B:363:PHE:HD2	2:B:366:ARG:HD2	1.84	0.41
2:B:428:CYS:C	2:B:430:GLU:H	2.22	0.41
2:B:798:TYR:CE2	3:C:61:PHE:CZ	3.08	0.41
2:B:831:SER:HB2	2:B:833:TYR:CD1	2.55	0.41
2:B:945:GLU:O	2:B:946:ASN:CB	2.68	0.41
2:B:973:VAL:HG12	2:B:974:PRO:O	2.19	0.41
2:B:1117:GLN:HG3	2:B:1156:ASP:OD2	2.20	0.41
5:E:142:ASN:O	5:E:145:HIS:HB2	2.19	0.41
8:H:122:MET:HG2	8:H:123:CYS:N	2.34	0.41
1:M:344:LYS:HE3	2:N:1151:LEU:HB3	2.02	0.41
1:M:1199:LEU:HD11	1:M:1240:ILE:CD1	2.50	0.41
2:N:969:ARG:HG2	2:N:970:THR:H	1.84	0.41
2:N:1066:SER:O	2:N:1067:ARG:HD3	2.20	0.41
2:N:1220:ARG:NH1	2:N:1220:ARG:CB	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:252:GLN:HG3	11:W:95:ILE:HG23	2.02	0.41
4:P:67:ARG:O	4:P:71:ARG:HB2	2.19	0.41
5:Q:146:HIS:HD2	5:Q:148:LEU:H	1.68	0.41
10:V:35:LEU:HD11	10:V:50:LEU:HB2	2.02	0.41
11:W:43:ALA:O	11:W:46:LEU:N	2.52	0.41
1:A:203:LEU:CG	1:A:207:GLU:N	2.82	0.41
1:A:263:LEU:HD22	1:A:304:TYR:CE1	2.55	0.41
1:A:284:GLY:O	1:A:286:PRO:CD	2.65	0.41
1:A:710:THR:CG2	9:I:94:ASP:HA	2.49	0.41
1:A:761:GLN:HG2	1:A:766:VAL:O	2.19	0.41
1:A:771:VAL:HG12	1:A:772:GLU:N	2.34	0.41
1:A:1078:ALA:HA	1:A:1081:MET:CE	2.50	0.41
1:A:1276:LEU:N	1:A:1276:LEU:CD1	2.82	0.41
2:B:586:PRO:HG2	2:B:610:ARG:CZ	2.50	0.41
2:B:587:SER:CA	2:B:610:ARG:HH12	2.33	0.41
2:B:1030:LEU:HD12	2:B:1030:LEU:HA	1.88	0.41
2:B:1116:ARG:CG	2:B:1198:TYR:CZ	3.01	0.41
3:C:80:LYS:O	3:C:94:CYS:HB2	2.21	0.41
3:C:166:GLU:O	11:K:6:ARG:NH1	2.53	0.41
3:C:252:GLN:HG3	11:K:95:ILE:HG23	2.02	0.41
6:F:107:VAL:HG12	6:F:108:LEU:N	2.35	0.41
9:I:4:PHE:CD1	9:I:4:PHE:C	2.94	0.41
10:J:35:LEU:HD11	10:J:50:LEU:HB2	2.02	0.41
11:K:48:GLU:O	11:K:50:LEU:N	2.54	0.41
1:M:23:SER:HA	1:M:234:TRP:CD1	2.56	0.41
1:M:1171:THR:O	1:M:1171:THR:HG22	2.19	0.41
1:M:1352:TYR:CD2	1:M:1353:LYS:N	2.88	0.41
2:N:12:ILE:HD11	2:N:648:THR:N	2.34	0.41
2:N:159:GLY:H	2:N:443:SER:CB	2.33	0.41
2:N:394:PHE:HB3	2:N:510:THR:HB	2.02	0.41
2:N:831:SER:HB2	2:N:833:TYR:CD1	2.55	0.41
2:N:936:ASP:OD1	2:N:936:ASP:C	2.58	0.41
3:O:147:LEU:N	3:O:147:LEU:CD2	2.75	0.41
3:O:168:ALA:C	3:O:170:TRP:N	2.72	0.41
5:Q:142:ASN:O	5:Q:145:HIS:HB2	2.20	0.41
6:R:107:VAL:HG12	6:R:108:LEU:N	2.35	0.41
8:T:117:PHE:O	8:T:119:GLY:N	2.53	0.41
11:W:48:GLU:O	11:W:50:LEU:N	2.54	0.41
1:A:119:ASN:O	1:A:122:MET:HB3	2.21	0.41
1:A:145:LYS:C	1:A:146:MET:HG3	2.39	0.41
1:A:568:LYS:HD3	8:H:94:TYR:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:599:LEU:CA	8:H:121:LEU:HD13	2.46	0.41
1:A:1143:THR:OG1	1:A:1207:LYS:HD3	2.20	0.41
2:B:12:ILE:HD11	2:B:648:THR:N	2.34	0.41
2:B:159:GLY:H	2:B:443:SER:CB	2.33	0.41
2:B:231:ILE:HG21	2:B:374:MET:CE	2.49	0.41
2:B:286:ASP:C	2:B:288:GLU:N	2.72	0.41
2:B:295:TYR:CD2	2:B:295:TYR:N	2.87	0.41
2:B:374:MET:C	2:B:376:ASN:N	2.73	0.41
2:B:479:TYR:CZ	2:B:1096:ARG:NH2	2.85	0.41
2:B:480:THR:CG2	2:B:481:TYR:N	2.82	0.41
3:C:116:SER:HB3	3:C:140:GLN:HA	2.01	0.41
5:E:11:LEU:HD12	5:E:11:LEU:O	2.21	0.41
6:F:81:THR:HB	6:F:136:ARG:NH1	2.35	0.41
7:G:12:THR:HG22	7:G:67:SER:HB3	2.01	0.41
8:H:5:LEU:N	8:H:60:ALA:HB2	2.35	0.41
1:M:41:MET:CE	1:M:41:MET:N	2.83	0.41
1:M:408:ARG:HG2	1:M:431:TRP:CZ2	2.56	0.41
1:M:475:VAL:O	1:M:475:VAL:HG13	2.20	0.41
1:M:599:LEU:O	1:M:600:SER:C	2.58	0.41
1:M:630:LEU:CA	1:M:633:THR:CG2	2.96	0.41
1:M:843:VAL:HG11	2:N:1136:ASP:OD2	2.20	0.41
1:M:1104:LYS:O	1:M:1105:GLU:C	2.59	0.41
1:M:1143:THR:OG1	1:M:1207:LYS:HD3	2.20	0.41
1:M:1448:ILE:HG12	7:S:18:PHE:HE2	1.85	0.41
2:N:370:PHE:O	2:N:372:GLY:N	2.54	0.41
2:N:575:VAL:HG22	2:N:619:ILE:CG2	2.43	0.41
2:N:792:MET:CE	2:N:857:ARG:NH2	2.83	0.41
2:N:912:ILE:CG2	2:N:913:GLY:N	2.83	0.41
2:N:1159:ARG:HD3	2:N:1193:GLN:NE2	2.35	0.41
3:O:260:PHE:O	3:O:261:GLU:C	2.59	0.41
4:P:54:SER:HB3	4:P:113:ALA:CB	2.50	0.41
5:Q:116:THR:HA	5:Q:117:PRO:HD3	1.94	0.41
8:T:103:PHE:CE2	8:T:135:LYS:HG2	2.56	0.41
10:V:18:TRP:HZ3	10:V:49:VAL:HG13	1.85	0.41
1:A:20:GLY:HA2	1:A:1416:GLY:O	2.20	0.41
1:A:351:ARG:HB3	2:B:1128:LEU:HD21	2.02	0.41
1:A:384:TYR:N	1:A:384:TYR:CD2	2.87	0.41
1:A:475:VAL:O	1:A:475:VAL:HG13	2.20	0.41
1:A:603:ASP:O	1:A:617:VAL:HG23	2.20	0.41
1:A:916:TYR:O	1:A:920:ILE:HB	2.20	0.41
2:B:300:TRP:CH2	9:I:45:ARG:HD3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:370:PHE:O	2:B:372:GLY:N	2.54	0.41
2:B:401:LEU:HD12	2:B:401:LEU:HA	1.90	0.41
2:B:463:LYS:HB3	2:B:464:LYS:H	1.77	0.41
5:E:153:ILE:H	5:E:195:VAL:HG13	1.86	0.41
8:H:103:PHE:CE2	8:H:135:LYS:HG2	2.56	0.41
12:L:52:GLU:HB3	12:L:53:CYS:H	1.68	0.41
1:M:39:GLU:OE1	1:M:39:GLU:N	2.53	0.41
1:M:119:ASN:O	1:M:122:MET:HB3	2.21	0.41
1:M:263:LEU:HD22	1:M:304:TYR:CE1	2.56	0.41
1:M:384:TYR:N	1:M:384:TYR:CD2	2.87	0.41
1:M:459:HIS:CE1	1:M:508:VAL:CG2	3.03	0.41
1:M:467:SER:O	2:N:1099:VAL:HG11	2.20	0.41
1:M:1122:LEU:N	1:M:1122:LEU:HD12	2.35	0.41
1:M:1367:ASN:O	1:M:1368:TYR:C	2.59	0.41
1:M:1444:PHE:HB2	6:R:135:ARG:O	2.20	0.41
2:N:177:GLU:HG2	10:V:61:ARG:HH22	1.85	0.41
2:N:316:ILE:HG12	2:N:321:VAL:HG11	2.01	0.41
2:N:632:ILE:HD12	2:N:685:GLY:O	2.20	0.41
2:N:798:TYR:CE2	3:O:61:PHE:CZ	3.08	0.41
2:N:878:THR:O	2:N:879:ARG:O	2.39	0.41
6:R:74:ILE:HD12	6:R:143:TYR:O	2.19	0.41
6:R:81:THR:HB	6:R:136:ARG:NH1	2.35	0.41
7:S:126:SER:HA	7:S:127:PRO:HA	1.73	0.41
10:V:35:LEU:HD22	10:V:40:LEU:HD12	2.02	0.41
1:A:348:PHE:CE2	1:A:494:GLN:OE1	2.74	0.41
1:A:445:PHE:CE2	1:A:488:MET:HE2	2.55	0.41
1:A:667:ILE:HG12	2:B:1030:LEU:HD22	2.02	0.41
1:A:1043:ALA:O	1:A:1046:TRP:HB3	2.19	0.41
1:A:1166:GLU:CG	1:A:1167:GLU:H	2.34	0.41
1:A:1282:ILE:HD11	1:A:1319:VAL:CG2	2.50	0.41
2:B:632:ILE:HD12	2:B:685:GLY:O	2.20	0.41
2:B:1066:SER:O	2:B:1067:ARG:HD3	2.20	0.41
2:B:1080:LYS:HG3	3:C:180:TYR:CE2	2.55	0.41
2:B:1166:CYS:SG	2:B:1166:CYS:O	2.78	0.41
4:D:35:ALA:O	4:D:37:LYS:N	2.53	0.41
5:E:41:PHE:O	5:E:42:ARG:C	2.59	0.41
5:E:136:GLU:O	5:E:138:ASP:N	2.53	0.41
10:J:21:TYR:C	10:J:23:ARG:N	2.74	0.41
10:J:25:LEU:HD23	10:J:30:GLN:O	2.20	0.41
10:J:52:HIS:CD2	10:J:52:HIS:C	2.94	0.41
1:M:606:MET:CE	1:M:613:VAL:HG13	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:916:TYR:O	1:M:920:ILE:HB	2.20	0.41
1:M:1103:LEU:HD11	1:M:1107:LEU:HD11	2.03	0.41
2:N:401:LEU:C	2:N:404:PRO:HD2	2.41	0.41
2:N:586:PRO:O	2:N:589:LEU:N	2.53	0.41
2:N:596:LEU:HD12	2:N:602:ILE:CG2	2.49	0.41
2:N:839:MET:HE3	2:N:1010:LEU:HD21	2.03	0.41
2:N:882:THR:HG21	2:N:935:ARG:CA	2.49	0.41
2:N:1031:LEU:HD11	2:N:1042:GLY:CA	2.50	0.41
3:O:80:LYS:O	3:O:94:CYS:HB2	2.21	0.41
5:Q:153:ILE:HG22	5:Q:154:ARG:O	2.20	0.41
7:S:49:LEU:O	7:S:50:ASP:C	2.58	0.41
8:T:137:ASP:O	8:T:138:ASN:C	2.59	0.41
9:U:28:SER:HB2	9:U:29:CYS:H	1.69	0.41
1:A:373:LYS:HA	1:A:436:HIS:HD1	1.79	0.41
1:A:615:PHE:CB	8:H:121:LEU:HD21	2.50	0.41
1:A:742:ASN:C	1:A:742:ASN:ND2	2.74	0.41
1:A:776:ILE:HG13	1:A:816:PHE:CD2	2.47	0.41
1:A:882:GLN:NE2	1:A:961:ASN:HA	2.35	0.41
1:A:1063:GLY:O	1:A:1064:GLU:C	2.59	0.41
1:A:1367:ASN:O	1:A:1368:TYR:C	2.59	0.41
2:B:57:ILE:H	2:B:57:ILE:HG13	1.65	0.41
2:B:401:LEU:C	2:B:404:PRO:HD2	2.41	0.41
2:B:763:GLN:HG2	2:B:765:PRO:HD2	2.03	0.41
2:B:871:VAL:CG1	2:B:872:GLU:N	2.83	0.41
2:B:1106:ARG:CG	2:B:1107:ALA:N	2.82	0.41
2:B:1168:LEU:HD13	2:B:1208:MET:HE3	2.02	0.41
6:F:82:THR:HG22	6:F:84:TYR:HB2	2.01	0.41
6:F:100:GLN:O	6:F:105:ALA:HB2	2.21	0.41
7:G:89:ALA:CB	7:G:103:VAL:HA	2.42	0.41
8:H:137:ASP:O	8:H:138:ASN:C	2.59	0.41
1:M:568:LYS:HZ1	8:T:43:ASN:HB3	1.85	0.41
1:M:756:PHE:O	1:M:757:ILE:C	2.58	0.41
1:M:957:PRO:O	1:M:957:PRO:HG2	2.21	0.41
1:M:1033:ILE:CG1	1:M:1034:LEU:HG	2.50	0.41
2:N:300:TRP:CH2	9:U:45:ARG:HD3	2.56	0.41
2:N:608:ILE:O	2:N:694:GLU:HG3	2.21	0.41
2:N:763:GLN:HG2	2:N:765:PRO:HD2	2.03	0.41
2:N:1104:HIS:HB2	2:N:1122:ARG:HD2	2.02	0.41
2:N:1166:CYS:O	2:N:1166:CYS:SG	2.78	0.41
5:Q:11:LEU:HD12	5:Q:11:LEU:O	2.21	0.41
5:Q:153:ILE:H	5:Q:195:VAL:HG13	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:30:LEU:HD22	7:S:72:VAL:HG11	2.01	0.41
10:V:25:LEU:HD23	10:V:30:GLN:O	2.20	0.41
10:V:52:HIS:CD2	10:V:52:HIS:C	2.94	0.41
1:A:23:SER:HA	1:A:234:TRP:CD1	2.56	0.41
1:A:54:ASN:HB3	1:A:248:ARG:HH12	1.86	0.41
2:B:310:ILE:HG23	2:B:311:GLU:N	2.36	0.41
2:B:370:PHE:C	2:B:372:GLY:H	2.23	0.41
2:B:700:ILE:HG21	2:B:742:GLU:OE1	2.21	0.41
2:B:835:GLN:HE21	2:B:835:GLN:HB2	1.62	0.41
4:D:52:SER:O	4:D:53:LEU:O	2.38	0.41
4:D:148:LEU:HD23	4:D:148:LEU:HA	1.87	0.41
5:E:150:PRO:CB	5:E:199:ARG:HB3	2.51	0.41
8:H:40:LEU:HD12	8:H:41:ASP:H	1.86	0.41
8:H:48:PRO:O	8:H:49:VAL:CG2	2.69	0.41
1:M:54:ASN:HB3	1:M:248:ARG:HH12	1.86	0.41
1:M:317:GLN:O	1:M:318:LYS:C	2.59	0.41
1:M:603:ASP:O	1:M:617:VAL:HG23	2.20	0.41
1:M:615:PHE:CB	8:T:121:LEU:HD21	2.49	0.41
1:M:897:ARG:O	1:M:1031:ARG:HB3	2.20	0.41
1:M:1063:GLY:O	1:M:1064:GLU:C	2.59	0.41
1:M:1218:ILE:HG13	1:M:1218:ILE:H	1.70	0.41
1:M:1351:LEU:HG	1:M:1375:VAL:HG22	2.03	0.41
2:N:222:PRO:O	2:N:223:SER:HB2	2.20	0.41
2:N:285:PRO:HD2	2:N:288:GLU:OE1	2.19	0.41
2:N:288:GLU:HA	2:N:291:GLN:CG	2.51	0.41
2:N:945:GLU:O	2:N:946:ASN:CB	2.68	0.41
7:S:89:ALA:CB	7:S:103:VAL:HA	2.41	0.41
9:U:4:PHE:CD1	9:U:4:PHE:C	2.94	0.41
9:U:33:ASP:O	9:U:34:TYR:C	2.59	0.41
9:U:58:ILE:HG23	9:U:58:ILE:O	2.21	0.41
11:W:85:GLN:O	11:W:88:GLU:HB2	2.21	0.41
1:A:90:VAL:HG12	1:A:91:PHE:H	1.84	0.41
1:A:589:LEU:O	1:A:607:LEU:HA	2.21	0.41
1:A:764:ALA:C	1:A:804:SER:HB3	2.38	0.41
1:A:838:ILE:HD11	1:A:1104:LYS:HG3	2.02	0.41
1:A:1006:ASN:OD1	1:A:1007:GLU:N	2.54	0.41
1:A:1122:LEU:N	1:A:1122:LEU:HD12	2.35	0.41
1:A:1352:TYR:CD2	1:A:1353:LYS:N	2.88	0.41
1:A:1437:ALA:HA	1:A:1438:PRO:HD3	1.96	0.41
2:B:392:ASP:O	2:B:508:HIS:CE1	2.74	0.41
2:B:882:THR:HG22	2:B:884:ARG:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1159:ARG:HD3	2:B:1193:GLN:NE2	2.35	0.41
5:E:27:TYR:C	5:E:64:THR:HG23	2.41	0.41
5:E:60:LEU:HB2	5:E:78:TRP:CE3	2.56	0.41
5:E:84:GLU:C	5:E:86:SER:H	2.23	0.41
7:G:160:ILE:CG2	7:G:161:GLY:N	2.81	0.41
10:J:12:LYS:O	10:J:14:VAL:HG23	2.20	0.41
1:M:348:PHE:CE2	1:M:494:GLN:OE1	2.74	0.41
1:M:366:GLY:HA2	1:M:462:LYS:O	2.21	0.41
1:M:589:LEU:O	1:M:607:LEU:HD12	2.20	0.41
1:M:819:MET:HA	2:N:507:LEU:HB3	2.03	0.41
1:M:1282:ILE:HD11	1:M:1319:VAL:CG2	2.50	0.41
2:N:586:PRO:HG2	2:N:610:ARG:CZ	2.50	0.41
2:N:587:SER:CA	2:N:610:ARG:HH12	2.34	0.41
2:N:589:LEU:O	2:N:589:LEU:HD12	2.21	0.41
4:P:57:ARG:HA	4:P:109:LEU:HD13	2.03	0.41
5:Q:32:GLU:C	5:Q:34:MET:H	2.24	0.41
6:R:73:ALA:O	6:R:74:ILE:HG13	2.21	0.41
8:T:48:PRO:O	8:T:49:VAL:CG2	2.69	0.41
8:T:101:TYR:CD2	8:T:101:TYR:N	2.88	0.41
9:U:40:ASP:CG	9:U:41:PRO:CD	2.88	0.41
1:A:69:THR:O	1:A:69:THR:HG22	2.21	0.41
1:A:267:LEU:HD23	1:A:267:LEU:HA	1.86	0.41
1:A:345:ARG:H	1:A:345:ARG:HG3	1.62	0.41
1:A:368:PRO:HG2	1:A:371:ILE:CG1	2.48	0.41
1:A:400:HIS:CB	1:A:401:PRO:CD	2.99	0.41
1:A:408:ARG:HG2	1:A:431:TRP:CZ2	2.56	0.41
1:A:443:VAL:HB	1:A:490:LEU:HD11	2.02	0.41
1:A:467:SER:O	2:B:1099:VAL:HG11	2.20	0.41
1:A:483:PHE:O	2:B:989:THR:CG2	2.62	0.41
1:A:606:MET:HE2	1:A:613:VAL:HG13	2.02	0.41
1:A:669:ASP:OD1	1:A:742:ASN:ND2	2.54	0.41
1:A:769:GLN:HG3	1:A:817:HIS:CB	2.50	0.41
1:A:957:PRO:O	1:A:957:PRO:HG2	2.20	0.41
1:A:1033:ILE:CG1	1:A:1034:LEU:HG	2.51	0.41
1:A:1103:LEU:HD11	1:A:1107:LEU:HD11	2.03	0.41
1:A:1222:PHE:CG	1:A:1226:LEU:HD23	2.55	0.41
1:A:1335:PHE:CD2	1:A:1336:VAL:N	2.89	0.41
2:B:370:PHE:HD2	2:B:374:MET:HE3	1.86	0.41
2:B:509:ASN:N	2:B:509:ASN:ND2	2.43	0.41
2:B:540:ILE:CG1	2:B:605:GLU:CD	2.84	0.41
2:B:608:ILE:O	2:B:694:GLU:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:705:GLU:H	2:B:705:GLU:HG2	1.66	0.41
2:B:1047:PHE:CD1	2:B:1047:PHE:N	2.80	0.41
2:B:1069:PHE:O	3:C:201:TRP:HH2	2.03	0.41
2:B:1100:ASP:OD2	11:K:1:MET:HB3	2.21	0.41
3:C:57:LEU:HD22	3:C:57:LEU:N	2.36	0.41
3:C:175:ALA:CB	10:J:42:ARG:NH2	2.72	0.41
3:C:186:LEU:N	3:C:186:LEU:CD1	2.84	0.41
4:D:57:ARG:HA	4:D:109:LEU:HD13	2.03	0.41
5:E:62:ASN:HB3	5:E:63:PRO:CD	2.51	0.41
8:H:103:PHE:CZ	8:H:135:LYS:HA	2.56	0.41
9:I:90:GLN:HE21	9:I:92:ARG:CD	2.34	0.41
1:M:344:LYS:HB3	2:N:1117:GLN:NE2	2.36	0.41
1:M:351:ARG:HA	1:M:488:MET:O	2.21	0.41
1:M:443:VAL:HB	1:M:490:LEU:HD11	2.02	0.41
1:M:445:PHE:CE2	1:M:488:MET:HE2	2.56	0.41
1:M:497:GLU:O	1:M:498:THR:C	2.59	0.41
1:M:600:SER:HA	1:M:601:PRO:HD2	1.91	0.41
1:M:742:ASN:C	1:M:742:ASN:ND2	2.74	0.41
1:M:1215:ALA:HA	1:M:1218:ILE:CD1	2.51	0.41
1:M:1423:ASP:O	1:M:1424:CYS:CB	2.61	0.41
1:M:1431:VAL:HG13	2:N:1151:LEU:CD2	2.51	0.41
1:M:1453:LEU:HD21	7:S:18:PHE:HB3	2.03	0.41
2:N:17:CYS:HB2	2:N:743:ILE:O	2.21	0.41
2:N:111:TYR:HE2	2:N:170:CYS:SG	2.42	0.41
2:N:183:MET:C	2:N:185:GLU:H	2.25	0.41
2:N:242:ILE:O	2:N:242:ILE:HG22	2.21	0.41
2:N:514:LEU:HD13	2:N:626:VAL:HB	2.02	0.41
2:N:598:ARG:NH1	2:N:632:ILE:HG21	2.36	0.41
2:N:705:GLU:H	2:N:705:GLU:HG2	1.66	0.41
2:N:834:ASN:CA	2:N:838:SER:O	2.67	0.41
2:N:1080:LYS:HG3	3:O:180:TYR:CE2	2.55	0.41
2:N:1167:GLY:O	2:N:1215:ARG:HA	2.21	0.41
2:N:1204:PHE:O	2:N:1205:GLN:C	2.58	0.41
3:O:146:LYS:HB2	10:V:56:ILE:HD11	2.02	0.41
3:O:186:LEU:N	3:O:186:LEU:CD1	2.84	0.41
3:O:218:VAL:H	3:O:218:VAL:HG13	1.22	0.41
5:Q:41:PHE:O	5:Q:42:ARG:C	2.59	0.41
5:Q:62:ASN:HB3	5:Q:63:PRO:CD	2.51	0.41
5:Q:134:PHE:CD2	5:Q:139:LEU:HD21	2.54	0.41
8:T:103:PHE:CZ	8:T:135:LYS:HA	2.56	0.41
9:U:25:LEU:HB3	9:U:38:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:55:THR:O	9:U:55:THR:HG22	2.21	0.41
11:W:43:ALA:O	11:W:45:LEU:N	2.54	0.41
1:A:53:LEU:O	1:A:54:ASN:O	2.39	0.41
1:A:366:GLY:HA2	1:A:462:LYS:O	2.21	0.41
1:A:667:ILE:CD1	1:A:668:GLY:N	2.82	0.41
1:A:1104:LYS:O	1:A:1105:GLU:C	2.59	0.41
2:B:91:GLU:OE1	12:L:56:ARG:NH2	2.54	0.41
2:B:183:MET:C	2:B:185:GLU:H	2.25	0.41
2:B:584:ARG:O	2:B:586:PRO:HD3	2.21	0.41
2:B:1177:LYS:O	2:B:1179:GLN:N	2.43	0.41
2:B:1220:ARG:NH1	2:B:1220:ARG:CB	2.77	0.41
6:F:73:ALA:O	6:F:74:ILE:HG13	2.21	0.41
6:F:123:LYS:C	6:F:125:LEU:N	2.74	0.41
7:G:126:SER:HA	7:G:127:PRO:HA	1.73	0.41
10:J:35:LEU:HD22	10:J:40:LEU:HD12	2.02	0.41
11:K:43:ALA:O	11:K:45:LEU:N	2.54	0.41
1:M:368:PRO:HG2	1:M:371:ILE:CG1	2.48	0.41
1:M:606:MET:HG2	1:M:622:THR:HG21	2.02	0.41
1:M:630:LEU:C	1:M:633:THR:CG2	2.90	0.41
1:M:769:GLN:OE1	1:M:817:HIS:ND1	2.51	0.41
1:M:1265:ARG:O	1:M:1269:HIS:CG	2.74	0.41
2:N:221:ALA:N	2:N:222:PRO:CD	2.84	0.41
2:N:296:ASP:O	2:N:298:ASN:N	2.54	0.41
2:N:355:PRO:C	2:N:356:HIS:O	2.60	0.41
2:N:584:ARG:O	2:N:586:PRO:HD3	2.21	0.41
2:N:700:ILE:HG21	2:N:742:GLU:OE1	2.21	0.41
4:P:26:THR:C	4:P:28:LEU:H	2.24	0.41
5:Q:27:TYR:C	5:Q:64:THR:HG23	2.41	0.41
10:V:46:ARG:HH11	10:V:46:ARG:CG	2.30	0.41
1:A:351:ARG:HA	1:A:488:MET:O	2.21	0.40
1:A:1387:ILE:HG23	1:A:1387:ILE:O	2.21	0.40
2:B:216:VAL:HG22	2:B:389:ASP:OD2	2.21	0.40
2:B:221:ALA:N	2:B:222:PRO:CD	2.84	0.40
2:B:225:ILE:CG2	2:B:228:VAL:HG23	2.46	0.40
2:B:229:ALA:O	2:B:247:ILE:CG2	2.69	0.40
2:B:316:ILE:HG12	2:B:321:VAL:HG11	2.01	0.40
2:B:575:VAL:CG2	2:B:619:ILE:HG21	2.45	0.40
2:B:586:PRO:O	2:B:589:LEU:N	2.53	0.40
2:B:878:THR:O	2:B:879:ARG:O	2.39	0.40
3:C:7:VAL:HG12	3:C:8:ASN:N	2.36	0.40
4:D:54:SER:HB3	4:D:113:ALA:CB	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:32:GLU:C	5:E:34:MET:H	2.24	0.40
11:K:85:GLN:O	11:K:88:GLU:HB2	2.21	0.40
1:M:40:ILE:CB	1:M:41:MET:HE2	2.09	0.40
1:M:589:LEU:O	1:M:607:LEU:HA	2.21	0.40
1:M:1059:LEU:CG	1:M:1060:VAL:N	2.82	0.40
1:M:1166:GLU:CG	1:M:1167:GLU:H	2.34	0.40
2:N:575:VAL:HG23	2:N:619:ILE:CD1	2.45	0.40
2:N:614:GLU:O	2:N:615:ARG:HB2	2.21	0.40
2:N:830:TYR:HB3	2:N:831:SER:H	1.69	0.40
2:N:882:THR:HG22	2:N:884:ARG:HB2	2.03	0.40
2:N:1006:ILE:HG22	10:V:44:CYS:HB3	2.03	0.40
2:N:1030:LEU:HD12	2:N:1030:LEU:HA	1.88	0.40
2:N:1201:LYS:HE2	2:N:1205:GLN:OE1	2.21	0.40
3:O:57:LEU:HD22	3:O:57:LEU:N	2.36	0.40
5:Q:162:GLN:O	5:Q:163:LEU:C	2.60	0.40
8:T:99:THR:O	8:T:116:SER:N	2.50	0.40
12:X:42:LEU:HD22	12:X:46:ASP:CB	2.48	0.40
1:A:48:PRO:O	1:A:49:ARG:CG	2.70	0.40
1:A:317:GLN:O	1:A:318:LYS:C	2.59	0.40
1:A:371:ILE:HG22	1:A:375:LEU:CD1	2.50	0.40
1:A:400:HIS:HB3	1:A:401:PRO:CD	2.46	0.40
1:A:651:GLN:O	1:A:652:LYS:C	2.60	0.40
1:A:910:LYS:C	1:A:912:ASP:H	2.25	0.40
1:A:1351:LEU:HG	1:A:1375:VAL:HG22	2.03	0.40
1:A:1447:MET:HE2	1:A:1447:MET:H	1.86	0.40
2:B:288:GLU:HA	2:B:291:GLN:CG	2.51	0.40
2:B:316:ILE:HD13	2:B:321:VAL:HG12	2.03	0.40
2:B:514:LEU:HD13	2:B:626:VAL:HB	2.02	0.40
2:B:589:LEU:O	2:B:589:LEU:HD12	2.21	0.40
2:B:1167:GLY:O	2:B:1215:ARG:HA	2.21	0.40
3:C:260:PHE:O	3:C:261:GLU:C	2.59	0.40
4:D:176:ASP:C	4:D:178:LEU:N	2.75	0.40
5:E:107:GLY:C	5:E:108:ILE:HG13	2.41	0.40
7:G:43:GLY:HA3	7:G:80:LYS:HB3	2.02	0.40
8:H:13:GLN:CG	8:H:27:ILE:O	2.69	0.40
8:H:38:LEU:HD13	8:H:124:LEU:CD1	2.50	0.40
9:I:33:ASP:O	9:I:34:TYR:C	2.59	0.40
9:I:55:THR:O	9:I:55:THR:HG22	2.21	0.40
1:M:54:ASN:HB3	1:M:248:ARG:NH2	2.30	0.40
1:M:69:THR:O	1:M:69:THR:HG22	2.21	0.40
1:M:102:VAL:HG11	1:M:212:PHE:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:243:PRO:HA	1:M:244:PRO:HD3	1.99	0.40
1:M:688:LYS:O	1:M:691:VAL:HB	2.21	0.40
1:M:1154:ILE:HD11	9:U:44:TYR:CD2	2.56	0.40
1:M:1335:PHE:HD2	1:M:1335:PHE:H	1.69	0.40
2:N:324:ASP:O	2:N:326:ILE:HB	2.22	0.40
2:N:1069:PHE:O	3:O:201:TRP:HH2	2.03	0.40
2:N:1096:ARG:CG	2:N:1096:ARG:HH11	2.34	0.40
2:N:1114:LEU:HD12	2:N:1202:LEU:CD1	2.46	0.40
2:N:1201:LYS:HE3	2:N:1205:GLN:OE1	2.21	0.40
3:O:7:VAL:HG12	3:O:8:ASN:N	2.36	0.40
4:P:179:ASN:HA	4:P:182:GLU:OE2	2.21	0.40
5:Q:84:GLU:C	5:Q:86:SER:H	2.24	0.40
5:Q:210:TYR:CD1	5:Q:210:TYR:N	2.89	0.40
6:R:97:ARG:HA	6:R:97:ARG:HD2	1.70	0.40
7:S:132:SER:C	7:S:134:ASP:N	2.75	0.40
8:T:13:GLN:CG	8:T:27:ILE:O	2.69	0.40
10:V:21:TYR:C	10:V:23:ARG:N	2.74	0.40
1:A:34:LYS:N	1:A:34:LYS:CD	2.83	0.40
1:A:95:PHE:CE2	1:A:1413:PHE:HB3	2.50	0.40
1:A:415:ASP:O	1:A:417:ARG:N	2.55	0.40
1:A:551:LEU:CD1	1:A:561:VAL:HG12	2.51	0.40
1:A:1265:ARG:O	1:A:1269:HIS:CG	2.74	0.40
2:B:111:TYR:HE2	2:B:170:CYS:SG	2.42	0.40
2:B:614:GLU:O	2:B:615:ARG:HB2	2.21	0.40
2:B:863:GLU:OE1	2:B:962:LYS:HB2	2.21	0.40
2:B:1006:ILE:HG22	10:J:44:CYS:HB3	2.03	0.40
2:B:1010:LEU:HD22	2:B:1092:TYR:CD1	2.57	0.40
2:B:1104:HIS:HB2	2:B:1122:ARG:HD2	2.02	0.40
2:B:1201:LYS:HE3	2:B:1205:GLN:OE1	2.22	0.40
8:H:80:PRO:HB3	8:H:81:PRO:HD2	2.02	0.40
10:J:43:TYR:CA	10:J:46:ARG:HB2	2.32	0.40
1:M:442:PRO:O	1:M:493:PRO:HG3	2.22	0.40
1:M:547:VAL:HG21	1:M:573:TRP:CD2	2.56	0.40
1:M:861:LEU:HD23	1:M:861:LEU:HA	1.92	0.40
1:M:1006:ASN:OD1	1:M:1007:GLU:N	2.54	0.40
1:M:1335:PHE:CD2	1:M:1336:VAL:N	2.89	0.40
2:N:637:GLU:C	2:N:639:LYS:N	2.73	0.40
2:N:792:MET:HG2	2:N:855:PHE:HE1	1.87	0.40
2:N:1021:MET:O	2:N:1023:VAL:N	2.55	0.40
2:N:1069:PHE:CD1	2:N:1069:PHE:N	2.76	0.40
2:N:1100:ASP:OD2	11:W:1:MET:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1207:LEU:HD23	2:N:1207:LEU:HA	1.84	0.40
4:P:176:ASP:C	4:P:178:LEU:N	2.75	0.40
5:Q:60:LEU:HB2	5:Q:78:TRP:CE3	2.56	0.40
5:Q:107:GLY:C	5:Q:108:ILE:HG13	2.41	0.40
6:R:100:GLN:O	6:R:105:ALA:HB2	2.21	0.40
6:R:123:LYS:C	6:R:125:LEU:N	2.74	0.40
8:T:40:LEU:HD12	8:T:41:ASP:H	1.86	0.40
9:U:55:THR:O	9:U:56:ALA:C	2.60	0.40
9:U:103:CYS:C	9:U:105:ASN:H	2.25	0.40
1:A:214:HIS:O	1:A:215:ILE:C	2.60	0.40
1:A:278:GLN:C	1:A:280:LEU:H	2.25	0.40
1:A:323:VAL:O	1:A:323:VAL:HG12	2.20	0.40
1:A:949:PHE:CD2	1:A:949:PHE:N	2.88	0.40
1:A:1348:ARG:HG3	1:A:1375:VAL:HG12	2.03	0.40
1:A:1431:VAL:HG13	2:B:1151:LEU:CD2	2.50	0.40
2:B:792:MET:HG2	2:B:855:PHE:HE1	1.87	0.40
2:B:830:TYR:HB3	2:B:831:SER:H	1.69	0.40
2:B:1000:PRO:O	2:B:1007:VAL:HG23	2.21	0.40
2:B:1001:PHE:CD2	3:C:33:ARG:NH2	2.90	0.40
2:B:1093:GLN:O	2:B:1095:LEU:HD12	2.22	0.40
2:B:1197:PRO:HG2	2:B:1200:ALA:HB3	2.02	0.40
2:B:1207:LEU:HD23	2:B:1207:LEU:HA	1.84	0.40
4:D:179:ASN:HA	4:D:182:GLU:OE2	2.21	0.40
5:E:181:ASP:HB3	5:E:184:ALA:HB2	2.03	0.40
8:H:62:SER:O	8:H:63:LEU:O	2.39	0.40
9:I:55:THR:O	9:I:56:ALA:C	2.60	0.40
1:M:34:LYS:N	1:M:34:LYS:CD	2.83	0.40
1:M:103:CYS:HA	1:M:106:ILE:HG23	2.03	0.40
1:M:351:ARG:HB3	2:N:1128:LEU:HD21	2.02	0.40
1:M:400:HIS:CB	1:M:401:PRO:CD	2.99	0.40
1:M:443:VAL:HG12	1:M:493:PRO:HD2	2.04	0.40
1:M:1120:VAL:HG23	1:M:1120:VAL:O	2.21	0.40
1:M:1154:ILE:O	9:U:43:VAL:HB	2.21	0.40
2:N:229:ALA:O	2:N:247:ILE:CG2	2.69	0.40
2:N:379:LEU:C	2:N:381:CYS:N	2.75	0.40
2:N:540:ILE:CG1	2:N:605:GLU:CD	2.84	0.40
2:N:871:VAL:CG1	2:N:872:GLU:N	2.83	0.40
2:N:999:MET:HG3	2:N:1000:PRO:CD	2.30	0.40
2:N:1010:LEU:HD22	2:N:1092:TYR:CD1	2.57	0.40
2:N:1060:ARG:HD2	2:N:1060:ARG:HA	1.78	0.40
3:O:104:HIS:O	3:O:149:ASN:O	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:132:PRO:O	3:O:133:VAL:C	2.60	0.40
7:S:14:HIS:ND1	7:S:15:PRO:CD	2.81	0.40
9:U:90:GLN:HE21	9:U:92:ARG:CD	2.34	0.40
12:X:57:VAL:HG23	12:X:58:ILE:N	2.36	0.40
1:A:90:VAL:HG13	1:A:298:GLN:HA	2.04	0.40
1:A:443:VAL:HG12	1:A:493:PRO:HD2	2.04	0.40
1:A:507:ALA:HB1	1:A:509:PRO:HD2	2.04	0.40
1:A:514:SER:HA	1:A:515:PRO:HD2	1.99	0.40
1:A:547:VAL:HG21	1:A:573:TRP:CD2	2.56	0.40
1:A:599:LEU:O	1:A:600:SER:C	2.58	0.40
1:A:1154:ILE:HD11	9:I:44:TYR:CD2	2.57	0.40
1:A:1393:ASN:CG	1:A:1405:PHE:CD2	2.95	0.40
2:B:177:GLU:HG2	10:J:61:ARG:HH22	1.85	0.40
2:B:242:ILE:HG22	2:B:242:ILE:O	2.21	0.40
2:B:296:ASP:O	2:B:298:ASN:N	2.54	0.40
2:B:575:VAL:HG23	2:B:619:ILE:CD1	2.45	0.40
2:B:596:LEU:HD12	2:B:602:ILE:CG2	2.49	0.40
2:B:899:ILE:HD11	2:B:911:ILE:CG2	2.42	0.40
2:B:1201:LYS:HE2	2:B:1205:GLN:OE1	2.21	0.40
3:C:212:PRO:CB	3:C:213:PRO:HD2	2.52	0.40
5:E:134:PHE:CD2	5:E:139:LEU:HD21	2.54	0.40
6:F:84:TYR:N	6:F:84:TYR:CD1	2.90	0.40
7:G:132:SER:C	7:G:134:ASP:N	2.75	0.40
8:H:106:GLY:O	8:H:107:ASP:O	2.40	0.40
9:I:58:ILE:O	9:I:58:ILE:HG23	2.21	0.40
11:K:6:ARG:C	11:K:8:GLU:H	2.25	0.40
1:M:415:ASP:O	1:M:417:ARG:N	2.55	0.40
1:M:801:VAL:HG22	1:M:813:GLU:CB	2.44	0.40
1:M:845:ALA:C	1:M:846:LEU:HD23	2.42	0.40
1:M:882:GLN:NE2	1:M:960:VAL:O	2.54	0.40
2:N:163:ILE:HD13	2:N:169:PHE:HB2	2.03	0.40
2:N:880:ALA:CB	2:N:934:LYS:HD2	2.51	0.40
2:N:1001:PHE:CD2	3:O:33:ARG:NH2	2.90	0.40
2:N:1099:VAL:C	2:N:1101:ASP:H	2.24	0.40
2:N:1190:ASN:C	2:N:1191:ILE:HG13	2.42	0.40
4:P:47:ASP:C	4:P:48:LEU:O	2.59	0.40
5:Q:150:PRO:CB	5:Q:199:ARG:HB3	2.51	0.40
7:S:43:GLY:HA3	7:S:80:LYS:HB3	2.02	0.40
10:V:5:VAL:CG1	10:V:6:ARG:HG3	2.51	0.40

All (16) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1178:ILE:CB	3:O:3:LYS:CB[2_555]	1.48	0.72
1:A:1178:ILE:CA	3:O:3:LYS:CB[2_555]	1.51	0.69
1:A:1178:ILE:O	3:O:3:LYS:CG[2_555]	1.58	0.62
2:B:869:SER:O	6:F:129:LYS:NZ[2_646]	1.65	0.55
1:A:1178:ILE:C	3:O:3:LYS:CG[2_555]	1.66	0.54
2:N:869:SER:O	6:R:129:LYS:NZ[2_655]	1.81	0.39
4:P:69:ARG:CD	12:X:52:GLU:CG[2_645]	1.86	0.34
1:A:1178:ILE:C	3:O:3:LYS:CB[2_555]	1.90	0.30
7:G:96:PRO:CB	8:H:144:ARG:NH2[2_646]	1.97	0.23
1:A:1178:ILE:O	3:O:3:LYS:CB[2_555]	1.99	0.21
1:A:1178:ILE:O	3:O:3:LYS:CA[2_555]	2.06	0.14
4:D:69:ARG:NH1	12:L:52:GLU:CG[2_656]	2.09	0.11
7:S:95:SER:OG	8:T:7:ASP:OD2[2_655]	2.11	0.09
7:G:96:PRO:CG	8:H:144:ARG:NH2[2_646]	2.17	0.03
1:A:1178:ILE:CB	3:O:3:LYS:CG[2_555]	2.18	0.02
8:T:34:SER:OG	9:U:106:CYS:O[2_545]	2.19	0.01

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1358/1743 (78%)	945 (70%)	279 (20%)	134 (10%)	0 9
1	M	1361/1743 (78%)	948 (70%)	277 (20%)	136 (10%)	0 9
2	B	1040/1227 (85%)	708 (68%)	210 (20%)	122 (12%)	0 6
2	N	1044/1227 (85%)	712 (68%)	211 (20%)	121 (12%)	0 6
3	C	261/304 (86%)	182 (70%)	56 (22%)	23 (9%)	1 11
3	O	261/304 (86%)	182 (70%)	56 (22%)	23 (9%)	1 11
4	D	147/186 (79%)	101 (69%)	27 (18%)	19 (13%)	0 5
4	P	152/186 (82%)	106 (70%)	27 (18%)	19 (12%)	0 5
5	E	212/214 (99%)	148 (70%)	42 (20%)	22 (10%)	0 8
5	Q	212/214 (99%)	148 (70%)	43 (20%)	21 (10%)	0 9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
6	F	82/155 (53%)	57 (70%)	15 (18%)	10 (12%)	0 6
6	R	82/155 (53%)	57 (70%)	15 (18%)	10 (12%)	0 6
7	G	169/171 (99%)	129 (76%)	27 (16%)	13 (8%)	1 13
7	S	169/171 (99%)	129 (76%)	27 (16%)	13 (8%)	1 13
8	H	124/145 (86%)	92 (74%)	17 (14%)	15 (12%)	0 6
8	T	127/145 (88%)	95 (75%)	17 (13%)	15 (12%)	0 6
9	I	109/115 (95%)	70 (64%)	25 (23%)	14 (13%)	0 5
9	U	109/115 (95%)	70 (64%)	25 (23%)	14 (13%)	0 5
10	J	58/72 (81%)	34 (59%)	15 (26%)	9 (16%)	0 3
10	V	58/72 (81%)	34 (59%)	15 (26%)	9 (16%)	0 3
11	K	112/118 (95%)	84 (75%)	17 (15%)	11 (10%)	0 10
11	W	112/118 (95%)	83 (74%)	18 (16%)	11 (10%)	0 10
12	L	44/73 (60%)	19 (43%)	12 (27%)	13 (30%)	0 0
12	X	44/73 (60%)	19 (43%)	12 (27%)	13 (30%)	0 0
All	All	7447/9046 (82%)	5152 (69%)	1485 (20%)	810 (11%)	0 8

All (810) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	42	ASP
1	A	48	PRO
1	A	54	ASN
1	A	57	LYS
1	A	67	CYS
1	A	73	GLY
1	A	74	MET
1	A	93	ILE
1	A	198	PRO
1	A	254	ASP
1	A	258	GLN
1	A	284	GLY
1	A	287	GLN
1	A	303	THR
1	A	304	TYR
1	A	312	GLN
1	A	313	PRO
1	A	336	ARG

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Mol	Chain	Res	Type
1	A	365	VAL
1	A	383	GLN
1	A	411	GLY
1	A	425	ILE
1	A	466	TYR
1	A	526	GLN
1	A	568	LYS
1	A	598	LEU
1	A	599	LEU
1	A	776	ILE
1	A	1015	ASN
1	A	1018	SER
1	A	1038	ARG
1	A	1117	ALA
1	A	1125	GLU
1	A	1126	ILE
1	A	1167	GLU
1	A	1208	GLN
1	A	1233	ASP
1	A	1235	ALA
1	A	1258	GLU
1	A	1280	PRO
1	A	1284	LYS
1	A	1327	SER
1	A	1441	THR
2	B	54	PRO
2	B	93	ASP
2	B	95	THR
2	B	220	ALA
2	B	274	ILE
2	B	325	PHE
2	B	326	ILE
2	B	358	THR
2	B	360	GLU
2	B	394	PHE
2	B	463	LYS
2	B	613	ARG
2	B	622	ASP
2	B	634	GLU
2	B	640	ASP
2	B	705	GLU
2	B	813	LYS

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Mol	Chain	Res	Type
2	B	869	SER
2	B	879	ARG
2	B	881	THR
2	B	884	ARG
2	B	907	GLY
2	B	976	ILE
2	B	1046	PRO
2	B	1097	HIS
2	B	1100	ASP
2	B	1131	GLY
2	B	1155	SER
2	B	1156	ASP
2	B	1167	GLY
2	B	1171	VAL
2	B	1175	LEU
2	B	1182	CYS
2	B	1223	VAL
3	C	4	GLU
3	C	139	ASP
3	C	161	LYS
3	C	237	SER
4	D	5	THR
4	D	48	LEU
4	D	91	LYS
4	D	139	PRO
4	D	167	LYS
5	E	73	ASP
5	E	86	SER
5	E	105	SER
6	F	73	ALA
6	F	74	ILE
7	G	52	MET
7	G	118	ASN
7	G	123	PRO
7	G	139	LYS
7	G	154	VAL
8	H	60	ALA
8	H	82	LYS
8	H	107	ASP
8	H	139	LEU
9	I	20	LYS
9	I	51	ASN

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Mol	Chain	Res	Type
9	I	56	ALA
9	I	107	LYS
10	J	2	ILE
10	J	41	LYS
10	J	63	ASN
11	K	7	PHE
11	K	43	ALA
12	L	37	ALA
12	L	41	SER
12	L	44	LYS
12	L	46	ASP
12	L	47	PRO
12	L	52	GLU
12	L	61	ALA
12	L	62	ARG
1	M	42	ASP
1	M	48	PRO
1	M	54	ASN
1	M	57	LYS
1	M	67	CYS
1	M	73	GLY
1	M	74	MET
1	M	93	ILE
1	M	197	GLN
1	M	198	PRO
1	M	254	ASP
1	M	258	GLN
1	M	284	GLY
1	M	287	GLN
1	M	303	THR
1	M	304	TYR
1	M	312	GLN
1	M	313	PRO
1	M	336	ARG
1	M	365	VAL
1	M	383	GLN
1	M	411	GLY
1	M	425	ILE
1	M	466	TYR
1	M	526	GLN
1	M	568	LYS
1	M	598	LEU

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Mol	Chain	Res	Type
1	M	599	LEU
1	M	776	ILE
1	M	1015	ASN
1	M	1018	SER
1	M	1038	ARG
1	M	1117	ALA
1	M	1125	GLU
1	M	1126	ILE
1	M	1167	GLU
1	M	1208	GLN
1	M	1233	ASP
1	M	1235	ALA
1	M	1258	GLU
1	M	1280	PRO
1	M	1284	LYS
1	M	1327	SER
1	M	1344	ILE
1	M	1441	THR
2	N	54	PRO
2	N	93	ASP
2	N	95	THR
2	N	220	ALA
2	N	274	ILE
2	N	325	PHE
2	N	326	ILE
2	N	358	THR
2	N	360	GLU
2	N	394	PHE
2	N	463	LYS
2	N	613	ARG
2	N	622	ASP
2	N	634	GLU
2	N	640	ASP
2	N	705	GLU
2	N	813	LYS
2	N	869	SER
2	N	879	ARG
2	N	881	THR
2	N	884	ARG
2	N	907	GLY
2	N	976	ILE
2	N	1046	PRO

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Mol	Chain	Res	Type
2	N	1097	HIS
2	N	1100	ASP
2	N	1131	GLY
2	N	1155	SER
2	N	1156	ASP
2	N	1167	GLY
2	N	1171	VAL
2	N	1175	LEU
2	N	1182	CYS
2	N	1223	VAL
3	O	4	GLU
3	O	139	ASP
3	O	161	LYS
3	O	237	SER
4	P	5	THR
4	P	48	LEU
4	P	91	LYS
4	P	139	PRO
4	P	167	LYS
5	Q	73	ASP
5	Q	86	SER
5	Q	105	SER
6	R	73	ALA
6	R	74	ILE
7	S	52	MET
7	S	118	ASN
7	S	123	PRO
7	S	139	LYS
7	S	154	VAL
8	T	60	ALA
8	T	82	LYS
8	T	107	ASP
8	T	139	LEU
9	U	20	LYS
9	U	51	ASN
9	U	56	ALA
9	U	107	LYS
10	V	2	ILE
10	V	41	LYS
10	V	63	ASN
11	W	7	PHE
11	W	43	ALA

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Mol	Chain	Res	Type
12	X	37	ALA
12	X	41	SER
12	X	44	LYS
12	X	46	ASP
12	X	47	PRO
12	X	52	GLU
12	X	61	ALA
12	X	62	ARG
1	A	35	ILE
1	A	55	ASP
1	A	58	LEU
1	A	62	ASP
1	A	69	THR
1	A	71	GLY
1	A	76	GLU
1	A	264	THR
1	A	319	SER
1	A	416	LEU
1	A	424	ASP
1	A	467	SER
1	A	518	ASN
1	A	535	MET
1	A	592	THR
1	A	610	ASP
1	A	629	GLY
1	A	673	ASP
1	A	700	HIS
1	A	717	GLY
1	A	772	GLU
1	A	847	GLU
1	A	848	ASP
1	A	853	TYR
1	A	974	HIS
1	A	988	ILE
1	A	1004	GLY
1	A	1016	ALA
1	A	1122	LEU
1	A	1124	ARG
1	A	1214	VAL
1	A	1223	SER
1	A	1264	LYS
1	A	1269	HIS

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Mol	Chain	Res	Type
1	A	1317	ALA
1	A	1344	ILE
1	A	1408	THR
1	A	1424	CYS
2	B	17	CYS
2	B	45	SER
2	B	55	ARG
2	B	102	GLN
2	B	167	SER
2	B	177	GLU
2	B	197	ASN
2	B	210	ALA
2	B	250	TYR
2	B	251	GLY
2	B	255	LYS
2	B	287	GLY
2	B	297	GLU
2	B	459	TRP
2	B	460	GLY
2	B	510	THR
2	B	523	GLY
2	B	550	PHE
2	B	552	GLU
2	B	635	ASP
2	B	702	MET
2	B	706	ASP
2	B	792	MET
2	B	888	GLY
2	B	909	ASP
2	B	946	ASN
2	B	1006	ILE
2	B	1069	PHE
2	B	1075	GLY
2	B	1126	GLY
2	B	1176	LYS
2	B	1186	LYS
3	C	17	VAL
3	C	133	VAL
3	C	149	ASN
3	C	156	ARG
3	C	173	CYS
3	C	184	ASN

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Mol	Chain	Res	Type
4	D	53	LEU
4	D	92	VAL
4	D	142	ILE
4	D	163	LEU
4	D	177	GLU
5	E	29	ILE
5	E	44	LYS
5	E	87	VAL
5	E	119	ALA
5	E	120	ASN
5	E	129	ALA
5	E	137	SER
6	F	154	ASP
7	G	50	ASP
8	H	18	GLY
8	H	62	SER
8	H	80	PRO
8	H	81	PRO
8	H	89	ALA
9	I	11	ASN
9	I	34	TYR
9	I	57	GLY
9	I	106	CYS
10	J	6	ARG
10	J	14	VAL
11	K	14	ASP
11	K	15	ASP
11	K	44	ASN
11	K	49	GLU
11	K	59	VAL
11	K	80	GLY
12	L	55	HIS
12	L	57	VAL
12	L	58	ILE
1	M	35	ILE
1	M	55	ASP
1	M	58	LEU
1	M	62	ASP
1	M	69	THR
1	M	71	GLY
1	M	76	GLU
1	M	319	SER

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Mol	Chain	Res	Type
1	M	416	LEU
1	M	424	ASP
1	M	467	SER
1	M	518	ASN
1	M	535	MET
1	M	592	THR
1	M	629	GLY
1	M	673	ASP
1	M	700	HIS
1	M	717	GLY
1	M	772	GLU
1	M	847	GLU
1	M	848	ASP
1	M	853	TYR
1	M	974	HIS
1	M	988	ILE
1	M	1004	GLY
1	M	1016	ALA
1	M	1122	LEU
1	M	1124	ARG
1	M	1214	VAL
1	M	1223	SER
1	M	1264	LYS
1	M	1269	HIS
1	M	1317	ALA
1	M	1408	THR
1	M	1424	CYS
2	N	17	CYS
2	N	45	SER
2	N	55	ARG
2	N	102	GLN
2	N	167	SER
2	N	177	GLU
2	N	197	ASN
2	N	210	ALA
2	N	250	TYR
2	N	251	GLY
2	N	255	LYS
2	N	287	GLY
2	N	297	GLU
2	N	459	TRP
2	N	460	GLY

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Mol	Chain	Res	Type
2	N	510	THR
2	N	523	GLY
2	N	550	PHE
2	N	552	GLU
2	N	635	ASP
2	N	702	MET
2	N	706	ASP
2	N	792	MET
2	N	883	LEU
2	N	888	GLY
2	N	909	ASP
2	N	946	ASN
2	N	1006	ILE
2	N	1069	PHE
2	N	1075	GLY
2	N	1126	GLY
2	N	1176	LYS
2	N	1186	LYS
3	O	17	VAL
3	O	133	VAL
3	O	149	ASN
3	O	156	ARG
3	O	173	CYS
3	O	184	ASN
4	P	53	LEU
4	P	80	SER
4	P	92	VAL
4	P	142	ILE
4	P	163	LEU
4	P	177	GLU
5	Q	29	ILE
5	Q	44	LYS
5	Q	87	VAL
5	Q	119	ALA
5	Q	120	ASN
5	Q	129	ALA
5	Q	137	SER
6	R	154	ASP
7	S	50	ASP
8	T	18	GLY
8	T	62	SER
8	T	80	PRO

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Mol	Chain	Res	Type
8	T	81	PRO
8	T	89	ALA
9	U	11	ASN
9	U	34	TYR
9	U	57	GLY
9	U	106	CYS
10	V	6	ARG
10	V	14	VAL
11	W	14	ASP
11	W	15	ASP
11	W	44	ASN
11	W	49	GLU
11	W	59	VAL
11	W	80	GLY
12	X	55	HIS
12	X	57	VAL
12	X	58	ILE
1	A	131	PRO
1	A	337	LEU
1	A	419	HIS
1	A	667	ILE
1	A	777	ALA
1	A	872	ASP
1	A	886	THR
1	A	1006	ASN
1	A	1226	LEU
1	A	1368	TYR
1	A	1369	ARG
1	A	1389	ARG
2	B	33	GLN
2	B	42	MET
2	B	43	GLU
2	B	173	ARG
2	B	253	GLU
2	B	300	TRP
2	B	324	ASP
2	B	382	ALA
2	B	407	ALA
2	B	443	SER
2	B	453	SER
2	B	467	SER
2	B	524	GLN

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Mol	Chain	Res	Type
2	B	584	ARG
2	B	603	SER
2	B	842	ASN
2	B	848	ARG
2	B	883	LEU
2	B	951	GLN
2	B	1022	THR
2	B	1108	ARG
2	B	1121	GLY
2	B	1158	PHE
2	B	1178	ASN
2	B	1181	GLU
3	C	89	ASP
3	C	132	PRO
4	D	13	ARG
4	D	15	ALA
4	D	22	GLU
4	D	54	SER
5	E	2	GLU
5	E	40	GLU
5	E	50	GLY
5	E	72	SER
6	F	81	THR
7	G	35	GLU
7	G	94	VAL
7	G	165	GLU
7	G	167	PHE
8	H	108	GLU
9	I	47	GLU
10	J	24	LEU
10	J	28	GLY
10	J	43	TYR
11	K	78	GLU
12	L	45	SER
12	L	51	LYS
1	M	131	PRO
1	M	264	THR
1	M	337	LEU
1	M	419	HIS
1	M	610	ASP
1	M	667	ILE
1	M	777	ALA

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Mol	Chain	Res	Type
1	M	872	ASP
1	M	886	THR
1	M	1006	ASN
1	M	1226	LEU
1	M	1368	TYR
1	M	1369	ARG
1	M	1389	ARG
2	N	33	GLN
2	N	42	MET
2	N	43	GLU
2	N	173	ARG
2	N	253	GLU
2	N	300	TRP
2	N	324	ASP
2	N	382	ALA
2	N	407	ALA
2	N	443	SER
2	N	453	SER
2	N	467	SER
2	N	524	GLN
2	N	584	ARG
2	N	603	SER
2	N	842	ASN
2	N	848	ARG
2	N	951	GLN
2	N	1022	THR
2	N	1108	ARG
2	N	1121	GLY
2	N	1158	PHE
2	N	1178	ASN
2	N	1181	GLU
3	O	89	ASP
3	O	132	PRO
4	P	13	ARG
4	P	22	GLU
4	P	54	SER
5	Q	2	GLU
5	Q	40	GLU
5	Q	50	GLY
5	Q	72	SER
6	R	81	THR
7	S	35	GLU

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Mol	Chain	Res	Type
7	S	94	VAL
7	S	165	GLU
7	S	167	PHE
8	T	108	GLU
9	U	47	GLU
10	V	24	LEU
10	V	28	GLY
10	V	43	TYR
11	W	78	GLU
12	X	45	SER
12	X	51	LYS
1	A	44	SER
1	A	45	ARG
1	A	65	PHE
1	A	109	ASN
1	A	318	LYS
1	A	323	VAL
1	A	569	PRO
1	A	1017	THR
1	A	1073	SER
1	A	1116	PRO
1	A	1169	PHE
1	A	1283	SER
1	A	1338	ILE
1	A	1381	ARG
1	A	1406	GLU
2	B	101	PRO
2	B	181	TYR
2	B	568	THR
2	B	724	LYS
2	B	738	PHE
2	B	785	TYR
2	B	1116	ARG
2	B	1136	ASP
2	B	1177	LYS
3	C	106	GLY
3	C	148	ARG
3	C	153	LEU
3	C	240	ALA
5	E	37	SER
5	E	55	LYS
5	E	58	SER

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Mol	Chain	Res	Type
5	E	191	ARG
5	E	202	GLU
6	F	150	GLU
7	G	17	TYR
7	G	67	SER
8	H	91	ASP
8	H	127	GLY
9	I	9	GLU
9	I	86	PHE
11	K	54	PRO
11	K	111	ILE
1	M	44	SER
1	M	45	ARG
1	M	65	PHE
1	M	109	ASN
1	M	196	ALA
1	M	318	LYS
1	M	323	VAL
1	M	569	PRO
1	M	1017	THR
1	M	1116	PRO
1	M	1169	PHE
1	M	1283	SER
1	M	1338	ILE
1	M	1381	ARG
1	M	1406	GLU
1	M	1414	GLU
2	N	101	PRO
2	N	181	TYR
2	N	568	THR
2	N	724	LYS
2	N	738	PHE
2	N	785	TYR
2	N	1116	ARG
2	N	1136	ASP
2	N	1177	LYS
3	O	106	GLY
3	O	148	ARG
3	O	153	LEU
3	O	240	ALA
5	Q	55	LYS
5	Q	58	SER

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Mol	Chain	Res	Type
5	Q	202	GLU
6	R	150	GLU
7	S	67	SER
8	T	91	ASP
8	T	127	GLY
9	U	9	GLU
9	U	86	PHE
11	W	54	PRO
11	W	111	ILE
1	A	70	CYS
1	A	234	TRP
1	A	255	GLU
1	A	601	PRO
1	A	651	GLN
1	A	707	PRO
1	A	739	LYS
1	A	753	LYS
1	A	860	SER
1	A	960	VAL
1	A	981	SER
1	A	1064	GLU
1	A	1206	ASP
1	A	1401	MET
1	A	1414	GLU
2	B	15	GLU
2	B	32	SER
2	B	175	LEU
2	B	254	ASP
2	B	429	ILE
2	B	462	GLN
2	B	587	SER
2	B	1065	GLN
2	B	1183	ARG
2	B	1188	LYS
3	C	33	ARG
3	C	129	VAL
3	C	214	LYS
3	C	227	ARG
5	E	85	PRO
6	F	106	PRO
6	F	151	LEU
7	G	128	PRO

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Mol	Chain	Res	Type
8	H	12	VAL
8	H	94	TYR
8	H	118	GLY
9	I	33	ASP
1	M	70	CYS
1	M	234	TRP
1	M	255	GLU
1	M	601	PRO
1	M	651	GLN
1	M	707	PRO
1	M	739	LYS
1	M	753	LYS
1	M	860	SER
1	M	960	VAL
1	M	981	SER
1	M	1064	GLU
1	M	1073	SER
1	M	1206	ASP
1	M	1401	MET
2	N	15	GLU
2	N	32	SER
2	N	175	LEU
2	N	254	ASP
2	N	429	ILE
2	N	462	GLN
2	N	587	SER
2	N	1065	GLN
2	N	1183	ARG
2	N	1188	LYS
3	O	33	ARG
3	O	129	VAL
3	O	214	LYS
3	O	227	ARG
5	Q	37	SER
5	Q	39	GLU
5	Q	85	PRO
5	Q	191	ARG
6	R	106	PRO
6	R	151	LEU
7	S	17	TYR
7	S	128	PRO
8	T	12	VAL

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Mol	Chain	Res	Type
8	T	94	TYR
8	T	118	GLY
9	U	33	ASP
1	A	148	CYS
1	A	311	GLY
1	A	652	LYS
1	A	1013	GLN
2	B	118	ASP
2	B	296	ASP
3	C	59	ASP
3	C	142	ILE
3	C	169	LYS
4	D	8	VAL
4	D	95	GLY
4	D	183	ASP
5	E	39	GLU
5	E	157	ASP
9	I	8	LEU
1	M	148	CYS
1	M	311	GLY
1	M	652	LYS
1	M	1013	GLN
2	N	296	ASP
3	O	59	ASP
3	O	142	ILE
3	O	169	LYS
4	P	95	GLY
4	P	183	ASP
9	U	8	LEU
2	B	282	GLY
2	B	1017	ILE
4	D	161	PRO
6	F	109	VAL
9	I	75	CYS
2	N	282	GLY
2	N	1017	ILE
4	P	8	VAL
4	P	161	PRO
6	R	109	VAL
9	U	75	CYS
1	A	520	PRO
1	A	757	ILE

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Mol	Chain	Res	Type
6	F	111	ILE
10	J	56	ILE
1	M	520	PRO
1	M	757	ILE
6	R	105	ALA
6	R	111	ILE
10	V	56	ILE
1	A	245	PRO
1	A	1244	VAL
2	B	992	VAL
2	B	1099	VAL
6	F	105	ALA
1	M	245	PRO
1	M	1244	VAL
2	N	992	VAL
2	N	1099	VAL
1	A	232	PRO
2	B	457	GLY
2	B	543	PRO
2	B	629	PRO
2	B	977	GLY
4	D	31	GLY
1	M	232	PRO
2	N	457	GLY
2	N	543	PRO
2	N	629	PRO
2	N	977	GLY
4	P	31	GLY
1	A	378	PRO
1	A	1077	PRO
2	B	307	LYS
2	B	590	VAL
1	M	378	PRO
1	M	1077	PRO
2	N	307	LYS
2	N	590	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	972/1528 (64%)	877 (90%)	95 (10%)	8	26
1	M	974/1528 (64%)	879 (90%)	95 (10%)	8	26
2	B	813/1077 (76%)	730 (90%)	83 (10%)	7	25
2	N	817/1077 (76%)	734 (90%)	83 (10%)	7	25
3	C	157/264 (60%)	135 (86%)	22 (14%)	3	17
3	O	156/264 (59%)	134 (86%)	22 (14%)	3	16
4	D	78/160 (49%)	66 (85%)	12 (15%)	2	14
4	P	79/160 (49%)	68 (86%)	11 (14%)	3	17
5	E	155/197 (79%)	141 (91%)	14 (9%)	9	30
5	Q	155/197 (79%)	141 (91%)	14 (9%)	9	30
6	F	60/137 (44%)	54 (90%)	6 (10%)	7	26
6	R	60/137 (44%)	54 (90%)	6 (10%)	7	26
7	G	102/148 (69%)	93 (91%)	9 (9%)	10	31
7	S	104/148 (70%)	95 (91%)	9 (9%)	10	31
8	H	89/130 (68%)	82 (92%)	7 (8%)	12	35
8	T	91/130 (70%)	84 (92%)	7 (8%)	13	37
9	I	81/109 (74%)	68 (84%)	13 (16%)	2	13
9	U	81/109 (74%)	70 (86%)	11 (14%)	3	17
10	J	47/66 (71%)	40 (85%)	7 (15%)	3	15
10	V	47/66 (71%)	40 (85%)	7 (15%)	3	15
11	K	67/109 (62%)	56 (84%)	11 (16%)	2	12
11	W	68/109 (62%)	56 (82%)	12 (18%)	2	11
12	L	26/58 (45%)	25 (96%)	1 (4%)	33	57
12	X	26/58 (45%)	25 (96%)	1 (4%)	33	57
All	All	5305/7966 (67%)	4747 (90%)	558 (10%)	7	24

All (558) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	ARG
1	A	18	GLN
1	A	34	LYS

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Mol	Chain	Res	Type
1	A	41	MET
1	A	62	ASP
1	A	77	CYS
1	A	83	HIS
1	A	110	CYS
1	A	120	PRO
1	A	121	THR
1	A	131	PRO
1	A	198	PRO
1	A	200	ARG
1	A	214	HIS
1	A	216	SER
1	A	217	PRO
1	A	244	PRO
1	A	262	ASP
1	A	309	ILE
1	A	313	PRO
1	A	336	ARG
1	A	345	ARG
1	A	370	SER
1	A	386	ILE
1	A	390	THR
1	A	404	LYS
1	A	409	ASP
1	A	413	ARG
1	A	426	VAL
1	A	435	ARG
1	A	441	ASP
1	A	444	LEU
1	A	446	ASN
1	A	448	GLN
1	A	451	LEU
1	A	452	HIS
1	A	463	VAL
1	A	467	SER
1	A	470	ARG
1	A	482	ASP
1	A	494	GLN
1	A	525	VAL
1	A	543	GLU
1	A	553	TRP
1	A	561	VAL

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Mol	Chain	Res	Type
1	A	598	LEU
1	A	636	ARG
1	A	651	GLN
1	A	667	ILE
1	A	677	MET
1	A	707	PRO
1	A	712	ARG
1	A	728	ASP
1	A	732	ARG
1	A	739	LYS
1	A	740	ASP
1	A	741	LEU
1	A	742	ASN
1	A	765	CYS
1	A	775	ARG
1	A	822	ARG
1	A	840	ARG
1	A	859	ASN
1	A	887	ILE
1	A	930	LEU
1	A	941	ARG
1	A	986	PRO
1	A	1031	ARG
1	A	1032	ARG
1	A	1054	GLN
1	A	1118	LEU
1	A	1122	LEU
1	A	1148	VAL
1	A	1168	ASP
1	A	1196	ARG
1	A	1238	LEU
1	A	1244	VAL
1	A	1267	GLU
1	A	1270	MET
1	A	1280	PRO
1	A	1294	VAL
1	A	1300	GLU
1	A	1327	SER
1	A	1335	PHE
1	A	1367	ASN
1	A	1374	LEU
1	A	1388	THR

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Mol	Chain	Res	Type
1	A	1403	CYS
1	A	1406	GLU
1	A	1429	GLU
1	A	1435	GLN
1	A	1444	PHE
1	A	1447	MET
1	A	1448	ILE
1	A	1450	GLU
2	B	17	CYS
2	B	50	VAL
2	B	54	PRO
2	B	90	THR
2	B	95	THR
2	B	166	ARG
2	B	185	GLU
2	B	190	MET
2	B	226	SER
2	B	252	ARG
2	B	259	ARG
2	B	260	THR
2	B	278	PHE
2	B	295	TYR
2	B	358	THR
2	B	364	GLU
2	B	386	LYS
2	B	389	ASP
2	B	439	LEU
2	B	458	ASN
2	B	459	TRP
2	B	466	MET
2	B	469	ARG
2	B	478	ARG
2	B	489	ARG
2	B	491	THR
2	B	506	GLN
2	B	509	ASN
2	B	511	HIS
2	B	543	PRO
2	B	550	PHE
2	B	584	ARG
2	B	596	LEU
2	B	603	SER

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Mol	Chain	Res	Type
2	B	607	SER
2	B	609	ILE
2	B	622	ASP
2	B	628	ARG
2	B	629	PRO
2	B	637	GLU
2	B	676	TYR
2	B	728	PRO
2	B	737	THR
2	B	786	ASN
2	B	790	ASP
2	B	791	THR
2	B	797	TYR
2	B	798	TYR
2	B	811	TYR
2	B	830	TYR
2	B	831	SER
2	B	835	GLN
2	B	845	SER
2	B	859	TYR
2	B	878	THR
2	B	887	HIS
2	B	899	ILE
2	B	909	ASP
2	B	939	THR
2	B	944	THR
2	B	953	LEU
2	B	970	THR
2	B	999	MET
2	B	1021	MET
2	B	1022	THR
2	B	1045	THR
2	B	1046	PRO
2	B	1047	PHE
2	B	1069	PHE
2	B	1071	VAL
2	B	1084	GLN
2	B	1092	TYR
2	B	1096	ARG
2	B	1147	LEU
2	B	1151	LEU
2	B	1159	ARG

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Mol	Chain	Res	Type
2	B	1185	CYS
2	B	1189	THR
2	B	1192	TYR
2	B	1198	TYR
2	B	1218	THR
2	B	1220	ARG
2	B	1224	SER
3	C	34	ARG
3	C	59	ASP
3	C	61	PHE
3	C	66	LEU
3	C	76	VAL
3	C	101	SER
3	C	111	THR
3	C	121	VAL
3	C	124	PRO
3	C	136	ASP
3	C	145	CYS
3	C	147	LEU
3	C	163	ILE
3	C	166	GLU
3	C	170	TRP
3	C	194	GLU
3	C	215	PRO
3	C	218	VAL
3	C	233	GLU
3	C	251	LEU
3	C	262	LEU
3	C	267	PRO
4	D	32	PRO
4	D	41	HIS
4	D	48	LEU
4	D	51	LEU
4	D	92	VAL
4	D	109	LEU
4	D	117	ASP
4	D	139	PRO
4	D	158	THR
4	D	171	LEU
4	D	184	PRO
4	D	185	TYR
5	E	8	ILE

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Mol	Chain	Res	Type
5	E	16	ARG
5	E	37	SER
5	E	59	PHE
5	E	65	PRO
5	E	72	SER
5	E	73	ASP
5	E	77	LEU
5	E	103	ASN
5	E	113	ASN
5	E	131	ILE
5	E	143	ILE
5	E	145	HIS
5	E	174	LEU
6	F	90	ARG
6	F	99	LEU
6	F	103	MET
6	F	116	ASP
6	F	138	LEU
6	F	140	ASP
7	G	1	MET
7	G	13	LEU
7	G	74	TYR
7	G	80	LYS
7	G	88	ASP
7	G	112	THR
7	G	128	PRO
7	G	163	ILE
7	G	171	ILE
8	H	3	SER
8	H	10	PHE
8	H	56	THR
8	H	63	LEU
8	H	94	TYR
8	H	101	TYR
8	H	109	ASP
9	I	4	PHE
9	I	7	CYS
9	I	12	ASN
9	I	14	LEU
9	I	15	TYR
9	I	34	TYR
9	I	35	THR

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Mol	Chain	Res	Type
9	I	51	ASN
9	I	87	GLN
9	I	98	THR
9	I	100	PHE
9	I	106	CYS
9	I	114	SER
10	J	7	CYS
10	J	13	VAL
10	J	16	ASP
10	J	42	ARG
10	J	43	TYR
10	J	45	CYS
10	J	47	ARG
11	K	1	MET
11	K	10	PHE
11	K	17	PRO
11	K	25	SER
11	K	47	ARG
11	K	54	PRO
11	K	57	THR
11	K	61	TYR
11	K	72	VAL
11	K	76	GLN
11	K	101	LEU
12	L	65	ARG
1	M	12	ARG
1	M	18	GLN
1	M	34	LYS
1	M	41	MET
1	M	62	ASP
1	M	77	CYS
1	M	83	HIS
1	M	110	CYS
1	M	120	PRO
1	M	121	THR
1	M	131	PRO
1	M	198	PRO
1	M	200	ARG
1	M	214	HIS
1	M	216	SER
1	M	217	PRO
1	M	244	PRO

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Mol	Chain	Res	Type
1	M	262	ASP
1	M	309	ILE
1	M	313	PRO
1	M	336	ARG
1	M	345	ARG
1	M	370	SER
1	M	386	ILE
1	M	390	THR
1	M	404	LYS
1	M	409	ASP
1	M	413	ARG
1	M	426	VAL
1	M	435	ARG
1	M	441	ASP
1	M	444	LEU
1	M	446	ASN
1	M	448	GLN
1	M	451	LEU
1	M	452	HIS
1	M	463	VAL
1	M	467	SER
1	M	470	ARG
1	M	482	ASP
1	M	494	GLN
1	M	525	VAL
1	M	543	GLU
1	M	553	TRP
1	M	561	VAL
1	M	598	LEU
1	M	636	ARG
1	M	651	GLN
1	M	667	ILE
1	M	677	MET
1	M	707	PRO
1	M	712	ARG
1	M	728	ASP
1	M	732	ARG
1	M	739	LYS
1	M	740	ASP
1	M	741	LEU
1	M	742	ASN
1	M	765	CYS

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Mol	Chain	Res	Type
1	M	775	ARG
1	M	822	ARG
1	M	840	ARG
1	M	859	ASN
1	M	887	ILE
1	M	930	LEU
1	M	941	ARG
1	M	986	PRO
1	M	1031	ARG
1	M	1032	ARG
1	M	1054	GLN
1	M	1118	LEU
1	M	1122	LEU
1	M	1148	VAL
1	M	1168	ASP
1	M	1196	ARG
1	M	1238	LEU
1	M	1244	VAL
1	M	1267	GLU
1	M	1270	MET
1	M	1280	PRO
1	M	1294	VAL
1	M	1300	GLU
1	M	1327	SER
1	M	1335	PHE
1	M	1367	ASN
1	M	1374	LEU
1	M	1388	THR
1	M	1403	CYS
1	M	1406	GLU
1	M	1429	GLU
1	M	1435	GLN
1	M	1444	PHE
1	M	1447	MET
1	M	1448	ILE
1	M	1450	GLU
2	N	17	CYS
2	N	50	VAL
2	N	54	PRO
2	N	90	THR
2	N	95	THR
2	N	166	ARG

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Mol	Chain	Res	Type
2	N	185	GLU
2	N	190	MET
2	N	226	SER
2	N	252	ARG
2	N	259	ARG
2	N	260	THR
2	N	278	PHE
2	N	295	TYR
2	N	358	THR
2	N	364	GLU
2	N	386	LYS
2	N	389	ASP
2	N	439	LEU
2	N	458	ASN
2	N	459	TRP
2	N	466	MET
2	N	469	ARG
2	N	478	ARG
2	N	489	ARG
2	N	491	THR
2	N	506	GLN
2	N	509	ASN
2	N	511	HIS
2	N	543	PRO
2	N	550	PHE
2	N	584	ARG
2	N	596	LEU
2	N	603	SER
2	N	607	SER
2	N	609	ILE
2	N	622	ASP
2	N	628	ARG
2	N	629	PRO
2	N	637	GLU
2	N	676	TYR
2	N	728	PRO
2	N	737	THR
2	N	786	ASN
2	N	790	ASP
2	N	791	THR
2	N	797	TYR
2	N	798	TYR

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Mol	Chain	Res	Type
2	N	811	TYR
2	N	830	TYR
2	N	831	SER
2	N	835	GLN
2	N	845	SER
2	N	859	TYR
2	N	878	THR
2	N	887	HIS
2	N	899	ILE
2	N	909	ASP
2	N	939	THR
2	N	944	THR
2	N	953	LEU
2	N	970	THR
2	N	999	MET
2	N	1021	MET
2	N	1022	THR
2	N	1045	THR
2	N	1046	PRO
2	N	1047	PHE
2	N	1069	PHE
2	N	1071	VAL
2	N	1084	GLN
2	N	1092	TYR
2	N	1096	ARG
2	N	1147	LEU
2	N	1151	LEU
2	N	1159	ARG
2	N	1185	CYS
2	N	1189	THR
2	N	1192	TYR
2	N	1198	TYR
2	N	1218	THR
2	N	1220	ARG
2	N	1224	SER
3	O	34	ARG
3	O	59	ASP
3	O	61	PHE
3	O	66	LEU
3	O	76	VAL
3	O	101	SER
3	O	111	THR

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Mol	Chain	Res	Type
3	O	121	VAL
3	O	124	PRO
3	O	136	ASP
3	O	145	CYS
3	O	147	LEU
3	O	163	ILE
3	O	166	GLU
3	O	170	TRP
3	O	194	GLU
3	O	215	PRO
3	O	218	VAL
3	O	233	GLU
3	O	251	LEU
3	O	262	LEU
3	O	267	PRO
4	P	32	PRO
4	P	41	HIS
4	P	48	LEU
4	P	51	LEU
4	P	109	LEU
4	P	117	ASP
4	P	139	PRO
4	P	158	THR
4	P	171	LEU
4	P	184	PRO
4	P	185	TYR
5	Q	8	ILE
5	Q	16	ARG
5	Q	37	SER
5	Q	59	PHE
5	Q	65	PRO
5	Q	72	SER
5	Q	73	ASP
5	Q	77	LEU
5	Q	103	ASN
5	Q	113	ASN
5	Q	131	ILE
5	Q	143	ILE
5	Q	145	HIS
5	Q	174	LEU
6	R	90	ARG
6	R	99	LEU

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Mol	Chain	Res	Type
6	R	103	MET
6	R	116	ASP
6	R	138	LEU
6	R	140	ASP
7	S	1	MET
7	S	13	LEU
7	S	74	TYR
7	S	80	LYS
7	S	88	ASP
7	S	112	THR
7	S	128	PRO
7	S	163	ILE
7	S	171	ILE
8	T	3	SER
8	T	10	PHE
8	T	56	THR
8	T	63	LEU
8	T	94	TYR
8	T	101	TYR
8	T	109	ASP
9	U	4	PHE
9	U	7	CYS
9	U	12	ASN
9	U	14	LEU
9	U	34	TYR
9	U	51	ASN
9	U	87	GLN
9	U	98	THR
9	U	100	PHE
9	U	106	CYS
9	U	114	SER
10	V	7	CYS
10	V	13	VAL
10	V	16	ASP
10	V	42	ARG
10	V	43	TYR
10	V	45	CYS
10	V	47	ARG
11	W	1	MET
11	W	10	PHE
11	W	16	VAL
11	W	17	PRO

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Mol	Chain	Res	Type
11	W	25	SER
11	W	47	ARG
11	W	54	PRO
11	W	57	THR
11	W	61	TYR
11	W	72	VAL
11	W	76	GLN
11	W	101	LEU
12	X	65	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (138) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	54	ASN
1	A	83	HIS
1	A	119	ASN
1	A	226	ASN
1	A	298	GLN
1	A	340	ASN
1	A	359	ASN
1	A	395	ASN
1	A	436	HIS
1	A	494	GLN
1	A	504	GLN
1	A	699	GLN
1	A	737	ASN
1	A	742	ASN
1	A	758	ASN
1	A	787	HIS
1	A	852	HIS
1	A	859	ASN
1	A	882	GLN
1	A	927	GLN
1	A	936	GLN
1	A	967	GLN
1	A	1367	ASN
1	A	1390	HIS
1	A	1435	GLN
2	B	33	GLN
2	B	34	GLN
2	B	108	ASN
2	B	206	GLN

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Mol	Chain	Res	Type
2	B	227	HIS
2	B	376	ASN
2	B	458	ASN
2	B	492	ASN
2	B	508	HIS
2	B	509	ASN
2	B	511	HIS
2	B	744	HIS
2	B	821	GLN
2	B	822	ASN
2	B	835	GLN
2	B	842	ASN
2	B	957	ASN
2	B	975	GLN
2	B	1015	HIS
2	B	1065	GLN
2	B	1161	HIS
2	B	1179	GLN
2	B	1193	GLN
2	B	1211	ASN
3	C	167	HIS
4	D	126	GLN
4	D	138	HIS
4	D	144	GLN
5	E	31	GLN
5	E	100	GLN
5	E	103	ASN
5	E	113	ASN
5	E	146	HIS
7	G	53	ASN
8	H	136	GLN
8	H	138	ASN
9	I	12	ASN
9	I	46	HIS
9	I	51	ASN
9	I	90	GLN
10	J	52	HIS
11	K	65	HIS
11	K	76	GLN
1	M	54	ASN
1	M	83	HIS
1	M	119	ASN

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Mol	Chain	Res	Type
1	M	226	ASN
1	M	298	GLN
1	M	340	ASN
1	M	359	ASN
1	M	395	ASN
1	M	436	HIS
1	M	494	GLN
1	M	504	GLN
1	M	699	GLN
1	M	737	ASN
1	M	742	ASN
1	M	743	ASN
1	M	758	ASN
1	M	787	HIS
1	M	852	HIS
1	M	859	ASN
1	M	882	GLN
1	M	927	GLN
1	M	936	GLN
1	M	967	GLN
1	M	1367	ASN
1	M	1390	HIS
1	M	1435	GLN
2	N	33	GLN
2	N	34	GLN
2	N	108	ASN
2	N	206	GLN
2	N	227	HIS
2	N	376	ASN
2	N	458	ASN
2	N	492	ASN
2	N	508	HIS
2	N	509	ASN
2	N	744	HIS
2	N	821	GLN
2	N	822	ASN
2	N	835	GLN
2	N	842	ASN
2	N	957	ASN
2	N	975	GLN
2	N	1015	HIS
2	N	1065	GLN

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Mol	Chain	Res	Type
2	N	1161	HIS
2	N	1179	GLN
2	N	1193	GLN
2	N	1211	ASN
3	O	167	HIS
4	P	99	ASN
4	P	126	GLN
4	P	138	HIS
4	P	144	GLN
5	Q	31	GLN
5	Q	100	GLN
5	Q	103	ASN
5	Q	113	ASN
5	Q	146	HIS
6	R	104	ASN
7	S	53	ASN
8	T	136	GLN
8	T	138	ASN
9	U	12	ASN
9	U	46	HIS
9	U	51	ASN
9	U	90	GLN
10	V	52	HIS
11	W	65	HIS
11	W	76	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 monosaccharides in this entry.

5.6 Ligand geometry

Of 16 ligands modelled in this entry, 16 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	1384/1743 (79%)	0.50	114 (8%) 11 14	125, 172, 223, 262	0
1	M	1387/1743 (79%)	0.50	108 (7%) 13 15	134, 181, 232, 271	0
2	B	1070/1227 (87%)	0.66	122 (11%) 5 9	123, 180, 233, 267	0
2	N	1074/1227 (87%)	0.73	127 (11%) 4 8	133, 190, 242, 276	0
3	C	265/304 (87%)	0.56	19 (7%) 15 16	135, 169, 204, 228	0
3	O	265/304 (87%)	0.70	26 (9%) 7 10	144, 178, 213, 237	0
4	D	159/186 (85%)	1.04	32 (20%) 1 3	153, 191, 228, 234	0
4	P	164/186 (88%)	0.76	25 (15%) 2 5	162, 200, 239, 243	0
5	E	214/214 (100%)	0.37	7 (3%) 46 41	152, 214, 258, 267	0
5	Q	214/214 (100%)	0.50	18 (8%) 11 13	161, 223, 267, 276	0
6	F	84/155 (54%)	0.72	10 (11%) 4 8	129, 155, 185, 192	0
6	R	84/155 (54%)	0.73	12 (14%) 2 6	138, 164, 194, 201	0
7	G	171/171 (100%)	0.83	23 (13%) 3 6	157, 176, 212, 222	0
7	S	171/171 (100%)	0.66	13 (7%) 13 15	166, 185, 221, 231	0
8	H	130/145 (89%)	0.44	3 (2%) 60 54	178, 210, 238, 254	0
8	T	131/145 (90%)	0.61	11 (8%) 11 13	187, 219, 247, 263	0
9	I	113/115 (98%)	0.97	29 (25%) 0 2	170, 210, 241, 250	0
9	U	113/115 (98%)	0.85	22 (19%) 1 3	179, 219, 250, 259	0
10	J	62/72 (86%)	0.57	4 (6%) 18 18	131, 160, 200, 214	0
10	V	62/72 (86%)	0.62	7 (11%) 5 9	140, 169, 209, 223	0
11	K	114/118 (96%)	0.31	6 (5%) 26 26	142, 170, 194, 220	0
11	W	114/118 (96%)	0.53	7 (6%) 21 20	152, 179, 203, 230	0
12	L	46/73 (63%)	0.40	2 (4%) 35 32	166, 238, 253, 255	0
12	X	46/73 (63%)	1.02	9 (19%) 1 3	175, 248, 262, 265	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å^2)	Q<0.9
All	All	7637/9046 (84%)	0.61	756 (9%)	7 10	123, 183, 240, 276	0

All (756) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1115	THR	7.8
2	N	388	GLN	7.0
2	N	389	ASP	6.7
2	N	216	VAL	6.7
2	N	721	ASP	6.5
1	A	257	THR	6.4
1	A	38	PRO	6.4
12	X	28	GLY	6.4
2	N	1224	SER	6.4
9	I	3	SER	6.3
1	M	959	PRO	6.3
1	A	255	GLU	5.9
10	J	63	ASN	5.9
2	B	884	ARG	5.8
4	D	138	HIS	5.6
9	I	2	ALA	5.6
9	U	54	GLU	5.6
2	N	387	ASP	5.5
3	C	3	LYS	5.3
2	N	271	ASP	5.3
3	C	2	SER	5.3
9	I	114	SER	5.2
1	M	317	GLN	5.2
2	N	259	ARG	5.1
2	N	260	THR	5.1
3	C	145	CYS	5.0
2	N	877	PRO	4.9
5	E	202	GLU	4.9
1	A	256	THR	4.9
1	M	323	VAL	4.9
2	B	1224	SER	4.8
12	X	29	VAL	4.8
2	N	521	PRO	4.8
5	Q	202	GLU	4.7
9	U	55	THR	4.7
4	D	117	ASP	4.7
2	B	885	LEU	4.7

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Mol	Chain	Res	Type	RSRZ
2	B	203	LEU	4.7
2	B	271	ASP	4.7
4	D	96	ALA	4.6
4	P	33	GLU	4.6
2	B	936	ASP	4.6
2	N	101	PRO	4.6
3	C	4	GLU	4.5
1	A	1097	THR	4.5
7	G	128	PRO	4.5
1	A	671	ILE	4.5
2	B	238	GLY	4.5
4	P	83	GLU	4.5
2	N	203	LEU	4.4
2	N	885	LEU	4.4
2	N	307	LYS	4.4
1	A	957	PRO	4.4
2	N	443	SER	4.4
2	B	1173	ALA	4.3
9	U	36	GLU	4.3
2	B	882	THR	4.3
2	N	520	THR	4.3
2	N	678	TRP	4.3
6	F	110	ASP	4.3
2	B	30	LEU	4.3
7	G	96	PRO	4.3
2	N	215	GLN	4.3
1	A	1114	LYS	4.3
2	B	752	ALA	4.2
1	A	1096	VAL	4.2
2	B	1222	GLY	4.2
2	N	1169	MET	4.2
9	I	113	GLU	4.2
1	A	1424	CYS	4.2
2	B	382	ALA	4.2
2	B	877	PRO	4.2
4	D	184	PRO	4.2
9	I	16	PRO	4.2
1	A	258	GLN	4.1
9	I	115	GLU	4.1
1	A	239	VAL	4.1
2	N	441	VAL	4.1
2	B	634	GLU	4.1

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Mol	Chain	Res	Type	RSRZ
2	B	239	SER	4.1
9	I	36	GLU	4.1
2	B	883	LEU	4.1
1	A	1425	ARG	4.0
2	N	522	GLU	4.0
9	I	51	ASN	4.0
1	A	286	PRO	4.0
9	I	25	LEU	4.0
2	N	689	TYR	4.0
3	O	258	VAL	4.0
3	O	133	VAL	4.0
2	B	721	ASP	4.0
4	D	137	LEU	4.0
4	P	94	SER	4.0
1	M	38	PRO	4.0
2	B	697	THR	4.0
2	N	1173	ALA	3.9
2	B	886	LYS	3.9
1	M	320	GLY	3.9
7	G	124	SER	3.9
2	N	308	PRO	3.9
2	N	1171	VAL	3.8
1	A	1257	ALA	3.8
1	M	886	THR	3.8
2	B	1221	SER	3.8
2	N	887	HIS	3.8
4	P	95	GLY	3.8
1	A	254	ASP	3.8
4	P	79	SER	3.8
4	P	81	ASN	3.8
2	N	1170	SER	3.7
7	G	94	VAL	3.7
1	A	238	THR	3.7
2	B	202	VAL	3.7
7	G	126	SER	3.7
9	U	56	ALA	3.7
1	A	1405	PHE	3.7
4	P	85	ASP	3.7
3	O	248	ILE	3.7
1	A	277	VAL	3.7
2	N	306	LEU	3.7
7	S	5	LYS	3.6

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Mol	Chain	Res	Type	RSRZ
3	O	194	GLU	3.6
4	D	118	GLU	3.6
4	P	82	GLY	3.6
1	M	876	GLY	3.6
2	B	887	HIS	3.6
1	A	86	LEU	3.6
3	O	268	ALA	3.6
2	B	348	ILE	3.6
6	R	107	VAL	3.6
1	A	1113	ILE	3.6
2	N	804	ALA	3.6
4	D	4	SER	3.6
2	N	204	ILE	3.5
12	X	48	VAL	3.5
1	M	1404	SER	3.5
9	I	112	ASP	3.5
1	A	1404	SER	3.5
1	M	1167	GLU	3.5
2	N	162	PRO	3.5
4	P	34	PHE	3.5
4	D	83	GLU	3.5
1	A	87	ALA	3.5
9	I	4	PHE	3.5
12	X	47	PRO	3.5
2	B	678	TRP	3.5
1	M	88	LYS	3.5
2	N	517	PRO	3.5
2	N	158	ILE	3.5
2	N	309	CYS	3.5
8	H	101	TYR	3.5
2	B	222	PRO	3.5
2	B	1223	VAL	3.5
2	N	479	TYR	3.5
1	A	618	VAL	3.5
1	M	884	ILE	3.5
10	V	61	ARG	3.4
2	B	229	ALA	3.4
1	M	319	SER	3.4
2	B	221	ALA	3.4
8	T	81	PRO	3.4
2	N	110	THR	3.4
2	N	238	GLY	3.4

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Mol	Chain	Res	Type	RSRZ
12	L	28	GLY	3.4
2	B	209	SER	3.4
2	N	629	PRO	3.4
2	N	160	LYS	3.4
9	I	38	ALA	3.4
4	D	20	ASP	3.4
4	D	95	GLY	3.3
4	P	19	VAL	3.3
7	S	99	PHE	3.3
1	A	358	PRO	3.3
1	M	274	ASN	3.3
2	B	223	SER	3.3
9	I	17	LYS	3.3
1	M	87	ALA	3.3
2	B	542	SER	3.3
1	M	1113	ILE	3.3
1	M	627	GLY	3.3
1	A	274	ASN	3.3
2	N	253	GLU	3.3
2	N	884	ARG	3.3
2	N	272	ILE	3.3
8	T	80	PRO	3.3
2	N	956	THR	3.3
1	M	379	GLU	3.3
1	A	700	HIS	3.3
2	B	827	ILE	3.3
3	C	194	GLU	3.3
1	A	180	MET	3.3
2	B	155	LYS	3.3
7	G	161	GLY	3.3
2	B	899	ILE	3.3
2	B	629	PRO	3.2
2	N	214	VAL	3.2
2	N	239	SER	3.2
2	N	826	ALA	3.2
2	N	728	PRO	3.2
1	A	955	ASN	3.2
3	O	41	PRO	3.2
2	N	254	ASP	3.2
6	F	109	VAL	3.2
6	R	154	ASP	3.2
2	B	992	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
2	N	779	GLY	3.2
1	A	606	MET	3.2
3	C	144	LEU	3.1
2	N	912	ILE	3.1
1	M	1140	ILE	3.1
4	D	94	SER	3.1
5	Q	126	VAL	3.1
2	B	751	VAL	3.1
1	A	294	GLU	3.1
9	U	58	ILE	3.1
2	N	1174	ASN	3.1
8	T	79	ARG	3.1
1	M	885	ASP	3.1
1	A	1116	PRO	3.1
1	A	1147	ASN	3.1
3	O	56	VAL	3.1
3	O	74	GLU	3.1
9	I	44	TYR	3.1
1	A	959	PRO	3.1
2	B	177	GLU	3.1
2	N	688	GLU	3.1
1	M	518	ASN	3.1
9	U	53	GLY	3.1
1	M	1244	VAL	3.1
2	B	1179	GLN	3.1
3	O	128	ASN	3.1
9	U	3	SER	3.1
7	S	126	SER	3.1
9	U	2	ALA	3.0
2	B	636	ASP	3.0
2	N	217	PHE	3.0
2	B	381	CYS	3.0
2	N	722	THR	3.0
9	U	114	SER	3.0
5	Q	96	CYS	3.0
2	B	744	HIS	3.0
2	B	1180	PHE	3.0
2	N	543	PRO	3.0
1	A	1127	ALA	3.0
1	M	177	LYS	3.0
1	M	1386	ALA	3.0
7	G	39	THR	3.0

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Mol	Chain	Res	Type	RSRZ
7	S	128	PRO	3.0
1	M	228	ASP	3.0
3	C	146	LYS	3.0
9	U	38	ALA	3.0
2	N	955	THR	3.0
3	O	251	LEU	3.0
4	D	150	CYS	3.0
2	N	327	GLY	3.0
6	F	96	THR	3.0
9	I	26	LEU	3.0
9	U	57	GLY	3.0
1	M	1408	THR	3.0
2	B	628	ARG	3.0
4	P	53	LEU	2.9
2	B	1220	ARG	2.9
1	M	1396	ASP	2.9
1	M	618	VAL	2.9
4	D	128	LEU	2.9
2	N	202	VAL	2.9
5	Q	91	THR	2.9
9	U	41	PRO	2.9
1	M	958	LEU	2.9
1	M	254	ASP	2.9
2	N	478	ARG	2.9
4	P	80	SER	2.9
6	R	155	ASN	2.9
1	A	240	LEU	2.9
2	B	292	HIS	2.9
2	B	1000	PRO	2.9
2	N	677	GLY	2.9
12	X	39	ASN	2.9
3	O	243	VAL	2.9
1	M	1085	THR	2.9
1	A	202	LEU	2.9
2	N	1172	ILE	2.9
3	O	107	GLU	2.9
1	A	956	TRP	2.9
2	B	210	ALA	2.8
6	R	153	VAL	2.8
3	O	237	SER	2.8
1	M	586	GLY	2.8
5	Q	169	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
2	N	310	ILE	2.8
6	F	93	ILE	2.8
10	V	5	VAL	2.8
4	P	93	THR	2.8
1	M	619	ASP	2.8
1	A	318	LYS	2.8
1	M	442	PRO	2.8
10	J	64	PRO	2.8
4	D	84	ILE	2.8
2	B	689	TYR	2.8
2	N	425	MET	2.8
2	N	743	ILE	2.8
12	L	60	LYS	2.8
2	B	1010	LEU	2.8
4	D	120	THR	2.8
1	A	1149	THR	2.8
1	M	515	PRO	2.8
1	M	417	ARG	2.8
1	A	85	GLU	2.8
1	A	1190	GLN	2.8
1	M	1190	GLN	2.8
2	N	544	SER	2.8
1	M	1399	ALA	2.8
5	Q	92	MET	2.8
2	N	107	ARG	2.8
1	A	1267	GLU	2.8
4	D	28	LEU	2.8
4	D	139	PRO	2.8
1	A	1406	GLU	2.8
5	Q	94	ASN	2.8
2	N	386	LYS	2.8
1	A	60	SER	2.7
2	B	728	PRO	2.7
4	P	41	HIS	2.7
2	N	1143	ALA	2.7
7	G	95	SER	2.7
2	N	221	ALA	2.7
1	A	1285	VAL	2.7
2	B	745	PRO	2.7
3	O	244	PHE	2.7
4	D	145	LEU	2.7
7	G	99	PHE	2.7

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Mol	Chain	Res	Type	RSRZ
3	O	70	PRO	2.7
12	X	56	ARG	2.7
1	M	1257	ALA	2.7
2	N	1120	GLU	2.7
4	P	86	ASP	2.7
1	M	628	GLY	2.7
1	M	795	PRO	2.7
2	B	307	LYS	2.7
7	G	5	LYS	2.7
12	X	57	VAL	2.7
2	B	519	GLU	2.7
2	B	993	THR	2.7
1	M	960	VAL	2.7
2	B	237	LYS	2.7
1	A	1423	ASP	2.7
2	N	1009	ASP	2.7
1	A	1324	GLY	2.7
3	O	75	ASP	2.7
9	U	63	GLY	2.7
1	M	1324	GLY	2.7
2	B	425	MET	2.7
1	A	88	LYS	2.7
6	R	90	ARG	2.7
2	N	421	ILE	2.7
1	A	701	ASN	2.7
1	M	1406	GLU	2.7
2	B	635	ASP	2.7
9	U	40	ASP	2.7
3	C	232	VAL	2.7
1	M	588	HIS	2.7
4	P	150	CYS	2.7
9	I	24	ARG	2.7
1	M	322	PRO	2.7
4	D	115	PHE	2.6
1	A	670	ALA	2.6
2	B	454	LEU	2.6
1	A	909	ILE	2.6
7	G	123	PRO	2.6
1	M	719	VAL	2.6
11	W	10	PHE	2.6
2	N	744	HIS	2.6
4	P	84	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
8	H	16	ASP	2.6
1	A	182	LEU	2.6
2	B	831	SER	2.6
6	R	130	ILE	2.6
1	M	1384	LEU	2.6
2	N	157	HIS	2.6
4	P	78	GLU	2.6
1	M	806	LEU	2.6
3	O	235	THR	2.6
1	A	276	ASN	2.6
4	P	145	LEU	2.6
1	M	196	ALA	2.6
1	M	326	ILE	2.6
9	I	55	THR	2.6
6	R	87	LYS	2.6
2	B	272	ILE	2.6
1	M	195	ASP	2.6
1	M	1403	CYS	2.6
2	N	261	ILE	2.6
1	M	187	LYS	2.6
2	N	349	LEU	2.6
1	M	704	GLU	2.6
1	M	54	ASN	2.6
8	T	49	VAL	2.6
2	B	29	GLY	2.6
1	A	197	GLN	2.6
3	O	134	ARG	2.6
9	U	42	LYS	2.6
2	B	916	THR	2.6
5	Q	177	ILE	2.6
10	V	53	VAL	2.6
11	K	67	LEU	2.6
2	B	216	VAL	2.6
2	B	610	ARG	2.6
2	N	752	ALA	2.6
4	D	149	GLY	2.5
8	T	48	PRO	2.5
1	A	663	PHE	2.5
3	O	57	LEU	2.5
1	A	883	THR	2.5
1	M	622	THR	2.5
3	C	102	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
4	D	87	ASP	2.5
5	Q	173	GLN	2.5
1	A	1282	ILE	2.5
2	B	421	ILE	2.5
5	Q	125	THR	2.5
12	X	41	SER	2.5
3	C	188	HIS	2.5
3	O	151	GLN	2.5
2	N	100	PHE	2.5
1	A	861	LEU	2.5
2	N	1041	GLU	2.5
6	F	111	ILE	2.5
1	M	591	ARG	2.5
2	N	771	SER	2.5
2	N	1138	MET	2.5
5	Q	178	GLN	2.5
1	A	285	SER	2.5
1	M	324	LYS	2.5
1	A	619	ASP	2.5
2	N	57	ILE	2.5
2	B	361	GLU	2.5
1	M	208	ILE	2.5
4	P	5	THR	2.5
6	R	111	ILE	2.5
9	I	46	HIS	2.5
2	B	881	THR	2.5
1	A	1323	PRO	2.5
1	M	287	GLN	2.5
3	O	157	CYS	2.5
1	M	1178	ILE	2.5
2	N	911	ILE	2.5
9	I	37	LEU	2.5
1	A	181	LYS	2.5
12	X	61	ALA	2.5
1	A	16	GLU	2.5
2	N	530	LYS	2.5
4	D	141	GLU	2.5
2	B	493	THR	2.5
10	V	13	VAL	2.5
3	C	251	LEU	2.5
7	G	127	PRO	2.5
5	Q	199	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
9	I	43	VAL	2.5
2	N	442	LYS	2.5
11	K	66	PRO	2.5
1	M	321	ARG	2.5
2	B	176	ASP	2.5
3	C	41	PRO	2.4
1	A	699	GLN	2.4
1	A	89	PRO	2.4
2	N	774	GLY	2.4
9	I	39	GLU	2.4
9	U	62	ILE	2.4
1	M	590	GLN	2.4
2	B	994	TYR	2.4
9	I	50	THR	2.4
1	A	237	ILE	2.4
11	W	9	LEU	2.4
10	J	53	VAL	2.4
1	A	615	PHE	2.4
1	M	614	MET	2.4
1	A	1384	LEU	2.4
4	D	185	TYR	2.4
1	M	1149	THR	2.4
2	B	387	ASP	2.4
2	N	1222	GLY	2.4
2	N	958	GLN	2.4
2	B	349	LEU	2.4
1	M	433	VAL	2.4
1	M	1385	MET	2.4
1	A	884	ILE	2.4
1	M	793	PHE	2.4
4	D	16	LYS	2.4
2	B	698	ILE	2.4
9	I	27	TYR	2.4
5	Q	52	PRO	2.4
1	A	44	SER	2.4
1	M	875	ASP	2.4
2	N	292	HIS	2.4
2	B	566	GLN	2.4
3	C	134	ARG	2.4
2	N	772	ALA	2.4
1	M	286	PRO	2.4
2	B	826	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
11	W	78	GLU	2.4
2	B	536	SER	2.4
10	V	49	VAL	2.4
2	B	543	PRO	2.4
3	C	5	PRO	2.4
8	T	5	LEU	2.4
10	V	50	LEU	2.4
2	B	640	ASP	2.4
3	C	193	PHE	2.4
2	N	816	GLU	2.4
9	U	37	LEU	2.4
7	G	48	VAL	2.4
2	N	950	ASP	2.4
6	R	110	ASP	2.4
2	N	687	ILE	2.4
3	O	241	ASN	2.4
5	Q	45	ILE	2.4
7	S	101	ALA	2.4
9	U	34	TYR	2.4
1	A	1122	LEU	2.4
2	N	775	LYS	2.4
1	A	47	ARG	2.4
1	A	228	ASP	2.4
1	A	623	VAL	2.4
1	A	84	MET	2.4
5	Q	34	MET	2.4
1	M	954	HIS	2.3
1	A	284	GLY	2.3
7	G	42	PHE	2.3
2	B	1012	ILE	2.3
1	A	271	LEU	2.3
2	N	99	MET	2.3
1	A	860	SER	2.3
6	F	94	LEU	2.3
6	R	140	ASP	2.3
7	S	96	PRO	2.3
1	M	909	ILE	2.3
7	S	102	ASP	2.3
2	N	819	ALA	2.3
9	I	5	ARG	2.3
7	G	159	ALA	2.3
1	M	610	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
6	F	144	GLU	2.3
3	O	55	SER	2.3
1	A	522	MET	2.3
1	M	238	THR	2.3
1	A	45	ARG	2.3
5	E	60	LEU	2.3
1	A	1264	LYS	2.3
1	A	1140	ILE	2.3
1	A	630	LEU	2.3
2	N	1042	GLY	2.3
2	N	270	GLN	2.3
11	K	113	ASN	2.3
1	A	796	GLU	2.3
2	B	304	GLU	2.3
4	D	119	GLU	2.3
1	A	1236	ASP	2.3
1	M	272	LYS	2.3
2	B	823	ALA	2.3
1	M	212	PHE	2.3
8	T	78	TRP	2.3
2	B	639	LYS	2.3
2	B	1219	GLU	2.3
1	A	359	ASN	2.3
2	N	1127	GLY	2.3
10	J	5	VAL	2.3
11	K	65	HIS	2.3
8	T	60	ALA	2.3
9	I	48	LEU	2.3
11	K	55	ASP	2.3
1	M	427	LEU	2.3
2	B	236	GLU	2.3
2	N	159	GLY	2.3
2	B	517	PRO	2.3
1	M	818	ALA	2.3
1	M	1267	GLU	2.3
7	G	76	ALA	2.3
2	B	771	SER	2.3
2	N	878	THR	2.3
4	P	87	ASP	2.3
9	I	98	THR	2.3
5	E	156	SER	2.2
1	A	862	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	1313	GLY	2.2
2	B	270	GLN	2.2
2	N	690	VAL	2.2
1	M	126	ILE	2.2
1	M	1218	ILE	2.2
1	M	39	GLU	2.2
2	B	1067	ARG	2.2
4	P	168	GLU	2.2
2	B	240	ARG	2.2
2	N	473	SER	2.2
11	W	11	ILE	2.2
5	E	61	ALA	2.2
1	A	298	GLN	2.2
1	M	89	PRO	2.2
2	B	220	ALA	2.2
4	D	121	CYS	2.2
1	A	812	GLN	2.2
1	M	318	LYS	2.2
3	C	250	THR	2.2
11	K	57	THR	2.2
1	M	671	ILE	2.2
2	B	512	TRP	2.2
2	B	613	ARG	2.2
3	O	204	SER	2.2
1	A	795	PRO	2.2
1	A	1300	GLU	2.2
7	G	47	THR	2.2
2	N	193	TYR	2.2
1	A	607	LEU	2.2
2	B	833	TYR	2.2
2	N	222	PRO	2.2
5	E	171	GLU	2.2
2	N	454	LEU	2.2
2	B	675	VAL	2.2
2	N	635	ASP	2.2
1	A	91	PHE	2.2
1	A	1152	THR	2.2
1	A	541	PHE	2.2
2	N	874	PHE	2.2
2	N	1218	THR	2.2
7	S	127	PRO	2.2
1	M	755	SER	2.2

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Mol	Chain	Res	Type	RSRZ
2	B	1175	LEU	2.2
8	T	101	TYR	2.2
1	M	1096	VAL	2.2
1	M	1397	THR	2.2
2	N	1181	GLU	2.2
1	A	1107	LEU	2.2
9	U	43	VAL	2.2
1	M	519	LYS	2.2
1	M	243	PRO	2.2
9	I	54	GLU	2.2
1	A	1126	ILE	2.2
2	N	831	SER	2.2
7	G	141	SER	2.2
2	B	344	TYR	2.1
2	B	841	MET	2.1
2	B	828	ALA	2.1
9	I	35	THR	2.1
1	M	1325	VAL	2.1
2	B	194	PHE	2.1
2	B	1085	VAL	2.1
2	N	1039	GLY	2.1
1	M	1097	THR	2.1
2	B	722	THR	2.1
7	G	138	THR	2.1
4	P	54	SER	2.1
10	V	63	ASN	2.1
2	B	753	ALA	2.1
1	A	1402	ARG	2.1
2	N	112	SER	2.1
1	M	203	LEU	2.1
2	B	204	ILE	2.1
3	C	254	LYS	2.1
4	P	4	SER	2.1
2	B	939	THR	2.1
9	U	112	ASP	2.1
11	W	80	GLY	2.1
7	S	4	LEU	2.1
1	M	276	ASN	2.1
8	T	138	ASN	2.1
2	B	1205	GLN	2.1
3	O	173	CYS	2.1
2	B	1092	TYR	2.1

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Mol	Chain	Res	Type	RSRZ
2	N	723	ALA	2.1
5	E	127	SER	2.1
5	E	174	LEU	2.1
4	D	91	LYS	2.1
1	M	224	GLY	2.1
1	M	1084	ASN	2.1
2	B	422	TYR	2.1
7	G	125	ASN	2.1
1	M	1345	GLU	2.1
9	I	18	GLU	2.1
1	A	1309	LEU	2.1
7	S	98	GLY	2.1
7	S	157	ILE	2.1
2	N	867	GLY	2.1
2	N	350	GLN	2.1
6	F	81	THR	2.1
2	N	240	ARG	2.1
1	M	1342	LEU	2.1
3	C	39	GLU	2.1
2	N	263	ALA	2.1
7	G	160	ILE	2.1
11	W	55	ASP	2.1
2	B	518	ALA	2.1
2	B	937	ALA	2.1
2	N	477	ASN	2.1
2	N	1067	ARG	2.1
6	F	80	THR	2.1
1	M	517	SER	2.1
1	A	622	THR	2.1
1	A	1085	THR	2.1
2	N	628	ARG	2.1
1	M	794	SER	2.1
1	A	224	GLY	2.1
1	M	1289	LYS	2.1
2	B	1130	PHE	2.1
2	N	778	MET	2.1
7	S	81	PRO	2.1
4	D	63	ALA	2.1
1	A	475	VAL	2.1
1	A	610	ASP	2.1
1	A	1418	ALA	2.1
6	F	112	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
4	D	60	ILE	2.1
2	N	1008	PRO	2.1
1	A	518	ASN	2.1
2	B	829	CYS	2.1
5	Q	98	ARG	2.1
1	A	1393	ASN	2.1
1	M	133	LYS	2.1
8	H	2	SER	2.1
2	B	495	ILE	2.1
2	B	1009	ASP	2.0
1	A	882	GLN	2.0
7	G	41	GLN	2.0
1	M	796	GLU	2.0
1	M	271	LEU	2.0
1	M	273	ALA	2.0
2	B	224	PRO	2.0
2	B	567	HIS	2.0
2	N	390	ASP	2.0
2	B	1011	ILE	2.0
4	D	56	SER	2.0
2	N	803	LEU	2.0
11	W	67	LEU	2.0
1	A	504	GLN	2.0
2	B	917	PRO	2.0
4	D	85	ASP	2.0
1	M	513	VAL	2.0
7	G	4	LEU	2.0
1	A	590	GLN	2.0
5	Q	127	SER	2.0
9	U	8	LEU	2.0
1	M	787	HIS	2.0
5	Q	152	HIS	2.0
2	B	473	SER	2.0
7	S	13	LEU	2.0
8	T	139	LEU	2.0
1	M	775	ARG	2.0
3	C	135	ARG	2.0
3	O	236	GLY	2.0
6	R	92	ARG	2.0
2	B	494	PRO	2.0
4	D	59	LEU	2.0
2	B	903	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
6	R	139	PRO	2.0
9	U	51	ASN	2.0
4	P	42	ASP	2.0
2	N	1162	VAL	2.0
1	A	755	SER	2.0

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

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
13	ZN	L	101	1/1	0.56	0.21	194,194,194,194	0
13	ZN	O	401	1/1	0.78	0.17	163,163,163,163	0
13	ZN	U	201	1/1	0.79	0.21	191,191,191,191	0
13	ZN	U	202	1/1	0.81	0.15	239,239,239,239	0
13	ZN	X	101	1/1	0.81	0.24	203,203,203,203	0
13	ZN	B	1301	1/1	0.83	0.17	152,152,152,152	0
13	ZN	M	1802	1/1	0.84	0.20	149,149,149,149	0
13	ZN	I	201	1/1	0.85	0.13	182,182,182,182	0
13	ZN	C	401	1/1	0.86	0.16	154,154,154,154	0
13	ZN	M	1801	1/1	0.89	0.10	174,174,174,174	0
13	ZN	A	1801	1/1	0.91	0.06	165,165,165,165	0
13	ZN	N	1301	1/1	0.91	0.10	161,161,161,161	0
13	ZN	A	1802	1/1	0.92	0.09	140,140,140,140	0
13	ZN	J	101	1/1	0.94	0.13	158,158,158,158	0
13	ZN	V	101	1/1	0.95	0.10	167,167,167,167	0
13	ZN	I	202	1/1	0.95	0.09	230,230,230,230	0

6.5 Other polymers (i)

There are no such residues in this entry.