Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 09:11 am BST

PDB ID	:	5X51
Title	:	RNA Polymerase II from Komagataella Pastoris (Type-3 crystal)
Authors	:	Ehara, H.; Umehara, T.; Sekine, S.; Yokoyama, S.
Deposited on	:	2017-02-14
Resolution	:	7.00 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 following versions of software and data (see references ①) were used in the production of this report:

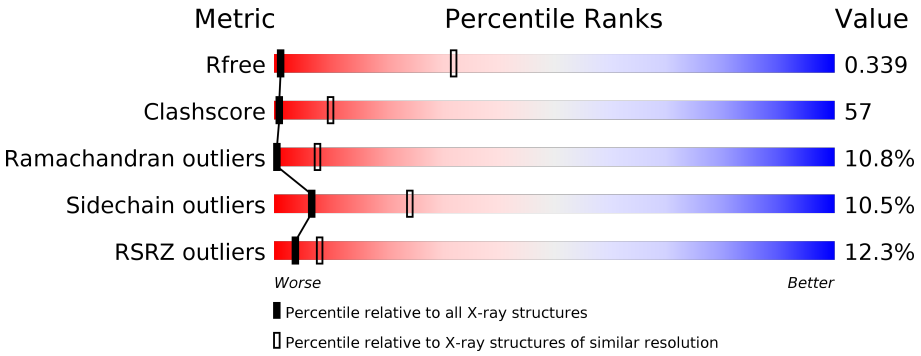
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

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 7.00 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	1004 (10.00-3.90)
Clashscore	141614	1069 (10.00-3.90)
Ramachandran outliers	138981	1002 (10.00-3.90)
Sidechain outliers	138945	1002 (10.00-3.86)
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 on 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	8% 27% 42% 9% • 21%
1	M	1743	10% 26% 42% 10% • 20%
2	B	1227	9% 26% 49% 11% • 13%
2	N	1227	11% 26% 49% 11% • 12%
3	C	304	4% 36% 39% 12% 13%
3	O	304	11% 36% 39% 11% • 13%

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Mol	Chain	Length	Quality of chain
4	D	186	18% 37% 40% 10% 12%
4	P	186	14% 35% 41% 10% 13%
5	E	214	21% 34% 55% 9%
5	Q	214	16% 34% 56% 9%
6	F	155	3% 15% 32% 6% 46%
6	R	155	5% 14% 32% 7% 46%
7	G	171	12% 36% 53% 11%
7	S	171	9% 39% 50% 11%
8	H	145	17% 30% 43% 15% 10%
8	T	145	20% 28% 45% 15% 10%
9	I	115	23% 36% 48% 12%
9	U	115	17% 35% 48% 13%
10	J	72	% 11% 58% 15% 14%
10	V	72	3% 14% 56% 15% 14%
11	K	118	11% 31% 52% 12%
11	W	118	14% 31% 52% 12%
12	L	73	18% 19% 26% 18% 37%
12	X	73	14% 23% 23% 16% 37%

2 Entry composition

There are 13 unique types of molecules in this entry. The entry contains 56615 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	1793	1901	54			
1	M	1386	Total	C	N	O	S	0	0	0
			10262	6507	1795	1906	54			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	1073	Total	C	N	O	S	0	0	0
			8182	5202	1425	1509	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	163	Total	C	N	O	S	0	0	0
			1105	707	190	206	2			
4	P	162	Total	C	N	O	S	0	0	0
			1099	704	189	204	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
			953	610	151	189	3			
8	T	130	Total	C	N	O	S	0	0	0
			953	610	151	189	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	I	112	Total	C	N	O	S	0	0	0
			847	531	149	156	11			
9	U	112	Total	C	N	O	S	0	0	0
			847	531	149	156	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	113	Total	C	N	O	S	0	0	0
			826	539	138	147	2			
11	W	113	Total	C	N	O	S	0	0	0
			826	539	138	147	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	J	1	Total	Zn	0	0
			1	1		
13	B	1	Total	Zn	0	0
			1	1		
13	I	2	Total	Zn	0	0
			2	2		
13	C	1	Total	Zn	0	0
			1	1		
13	V	1	Total	Zn	0	0
			1	1		
13	A	2	Total	Zn	0	0
			2	2		
13	N	1	Total	Zn	0	0
			1	1		
13	U	2	Total	Zn	0	0
			2	2		
13	X	1	Total	Zn	0	0
			1	1		

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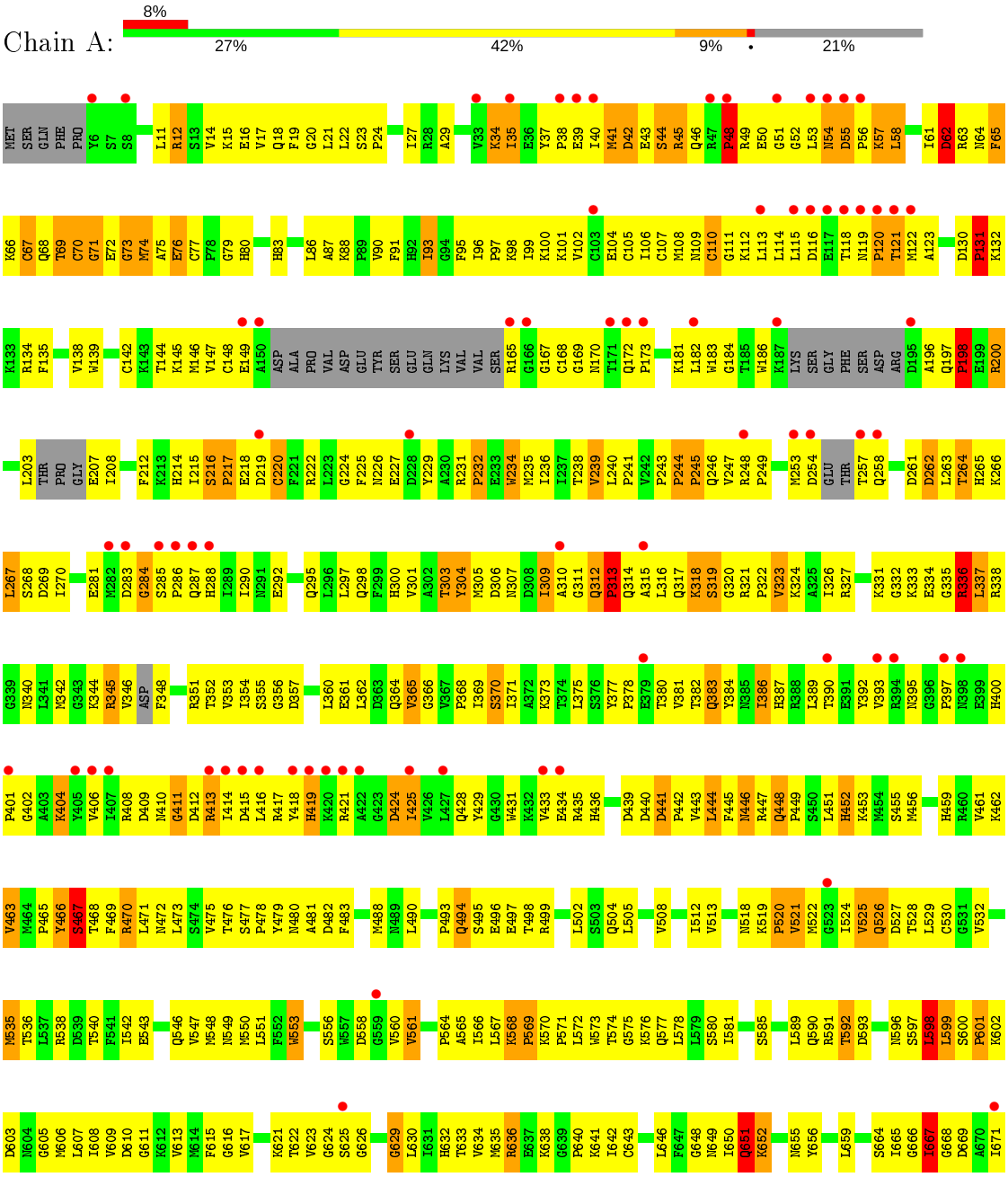
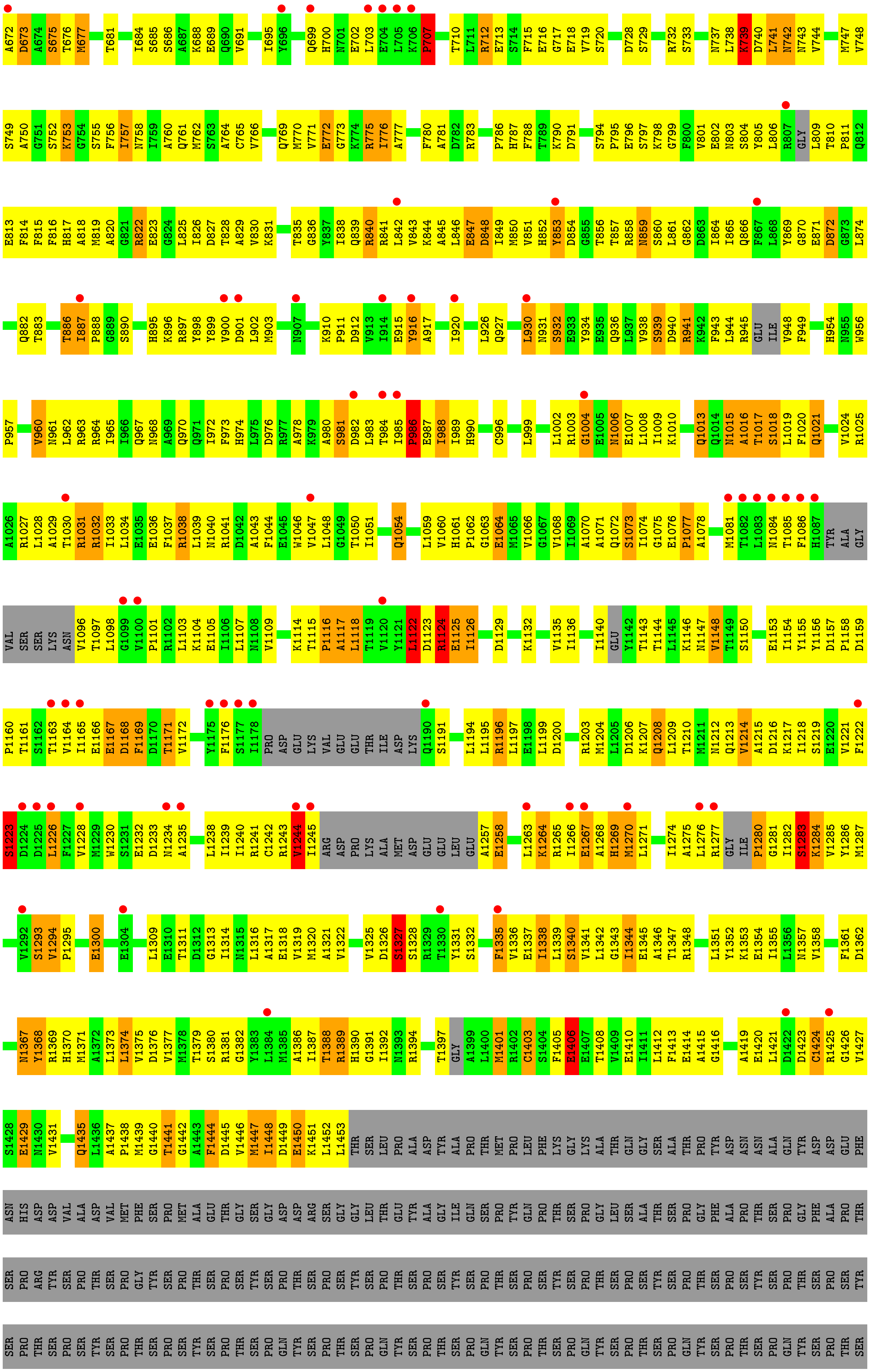
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
13	O	1	Total Zn 1 1	0	0
13	L	1	Total Zn 1 1	0	0
13	M	2	Total Zn 2 2	0	0

3 Residue-property plots (i)

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

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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 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 G824 L825 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 F867 L868 Y869 G870 E871 D872 G873 L874
Q882 T883 T886 I887 P888 G889 S890 H895 K896 R897 Y898 Y899 V900 D901 L902 M903 N907 K910 P911 D912 V913 I914 E915 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 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 T1082 L1083 N1084 T1085 F1086 H1087 TYR ALA GLY
VAL SER SER LYS ASN V1096 T1097 L1098 G1099 V1100 P1101 R1102 L1103 K1104 E1105 I1106 L1107 N1108 V1109 K1114 T1115 P1116 A1117 L1118 T1119 V1120 Y1121 L1122 D1123 R1124 E1125 I1126 D1129 K1132 V1135 I1136 I1140 GLU Y1142 T1143 T1144 L1145 K1146 N1147 V1148 T1149 S1150 E1153 I1154 Y1155 Y1156 D1157 P1158 D1159
P1160 T1161 S1162 T1163 V1164 I1165 E1166 E1167 D1168 F1169 D1170 T1171 V1172 Y1175 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 D1224 D1225 L1226 F1227 V1228 M1229 W1230 S1231 E1232 D1233 N1234 A1235 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 ILE P1280 G1281 I1282 S1283 K1284 V1285 Y1286 M1287
V1292 S1293 V1294 P1295 E1300 E1304 L1309 E1310 T1311 D1312 G1313 I1314 N1315 L1316 A1317 E1318 V1319 M1320 A1321 V1322 V1325 D1326 S1327 S1328 R1329 T1330 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 A1419 E1420 L1421 D1422 D1423 C1424 R1425 G1426 V1427
S1428 E1429 N1430 V1431 Q1435 L1436 A1437 P1438 M1439 G1440 T1441 G1442 A1443 F1444 D1445 V1446 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
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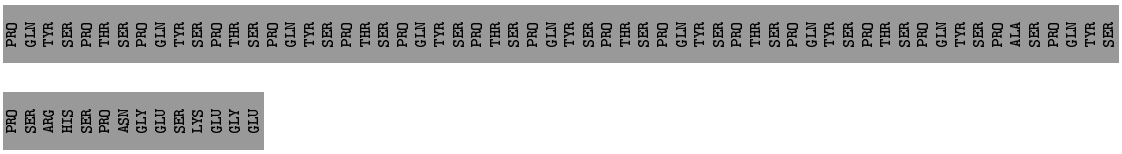
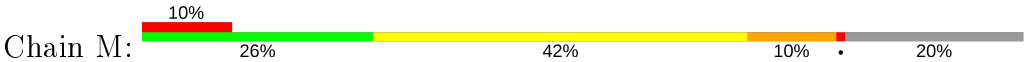
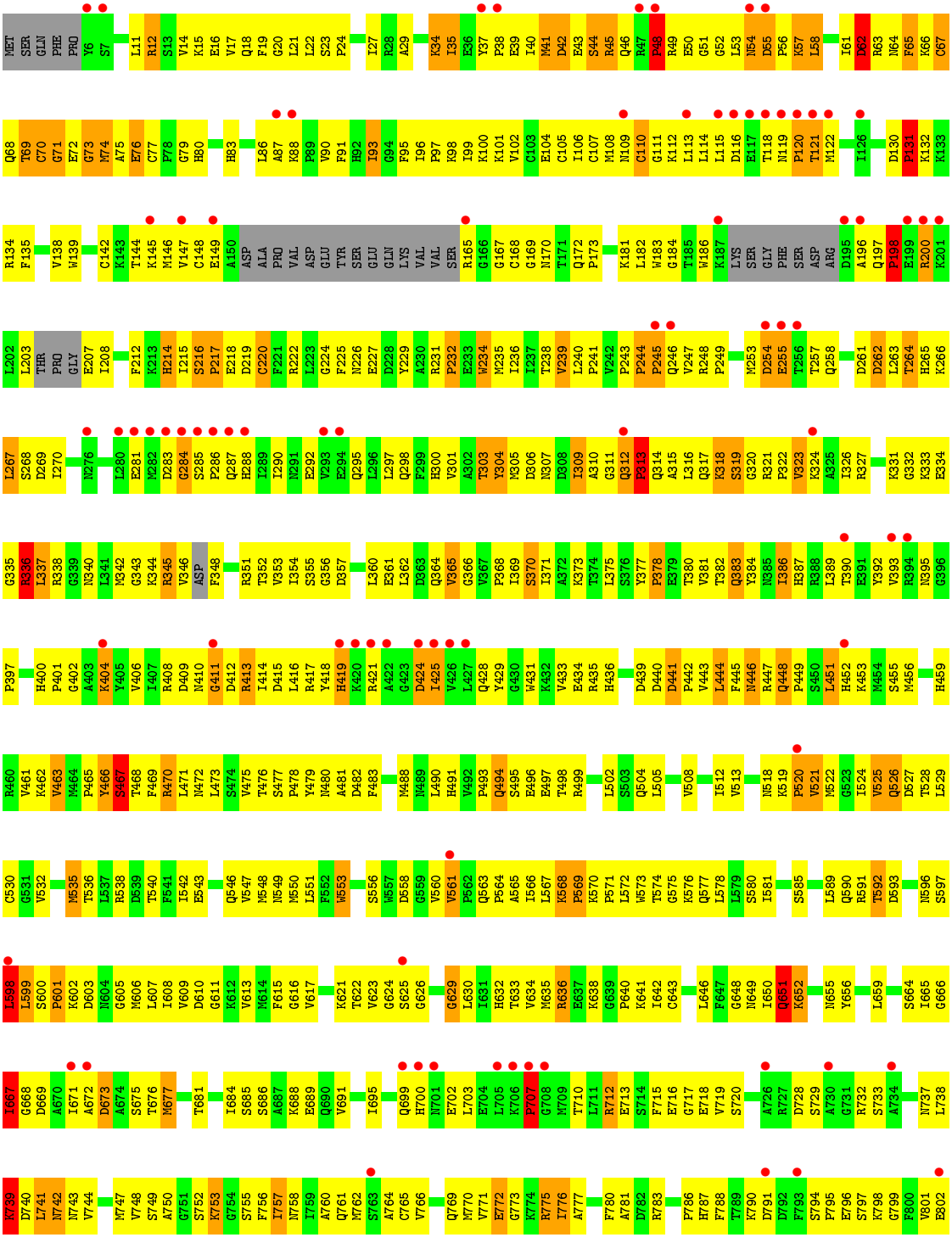
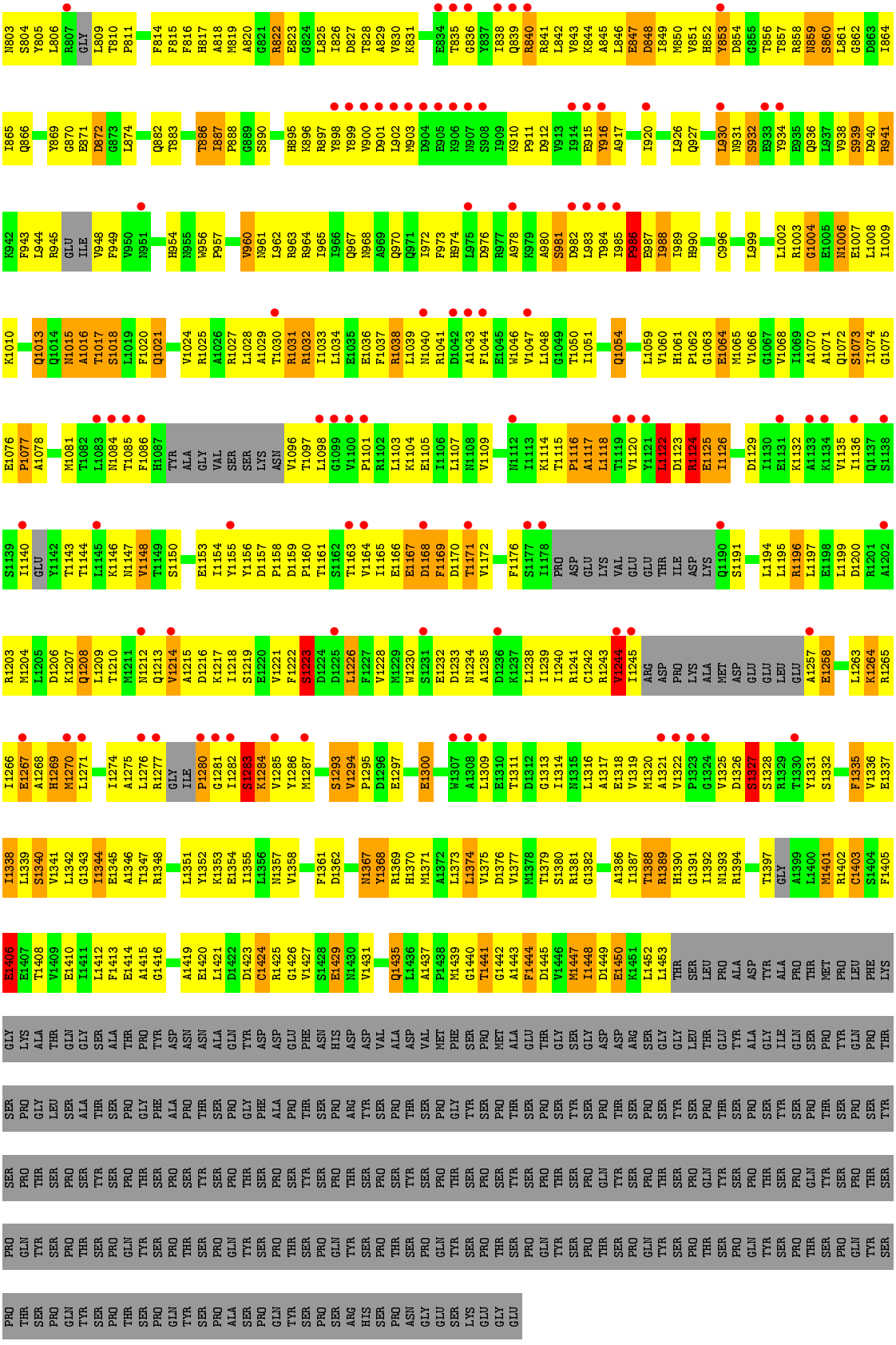


• Molecule 1: DNA-directed RNA polymerase subunit

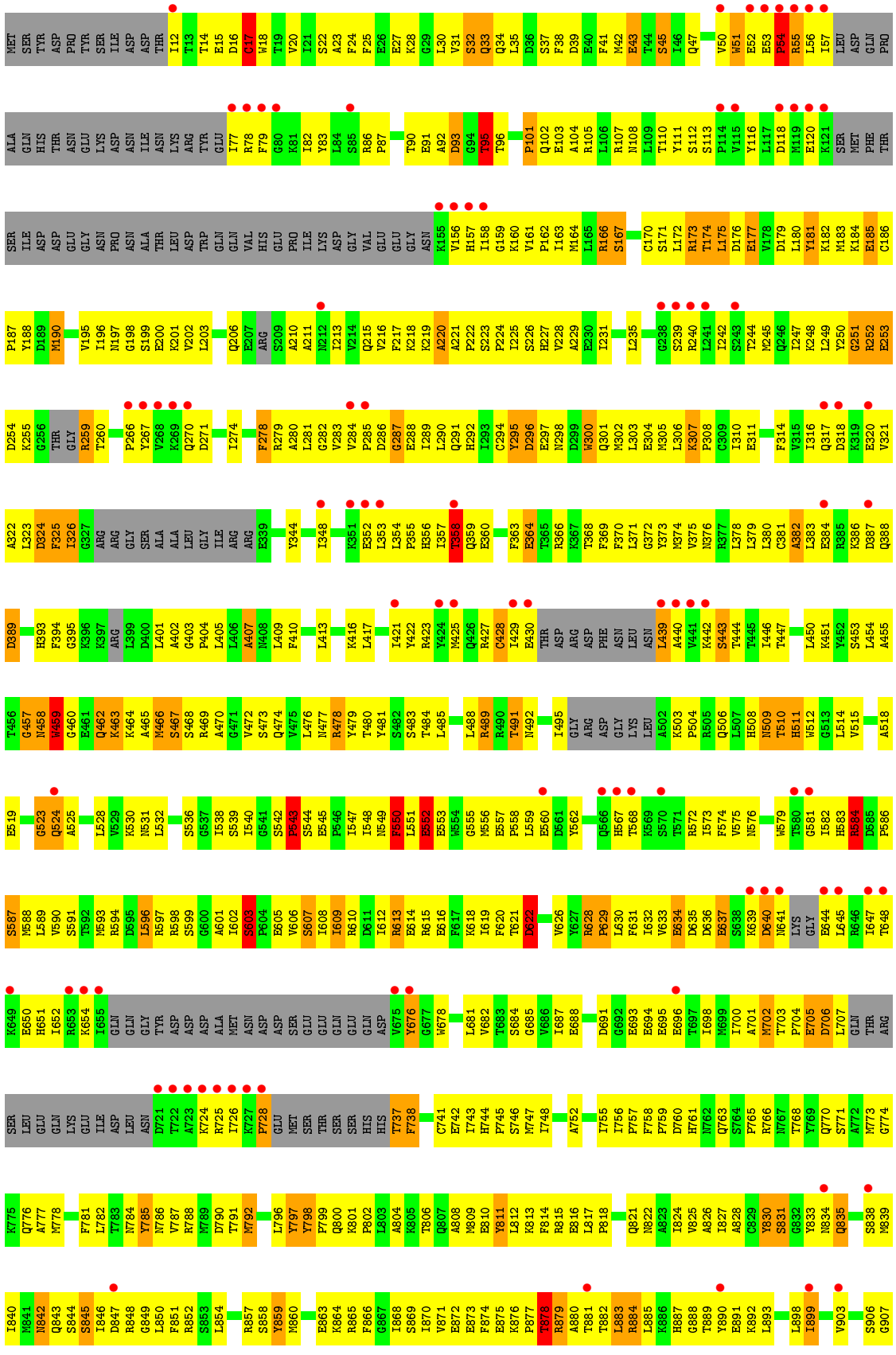


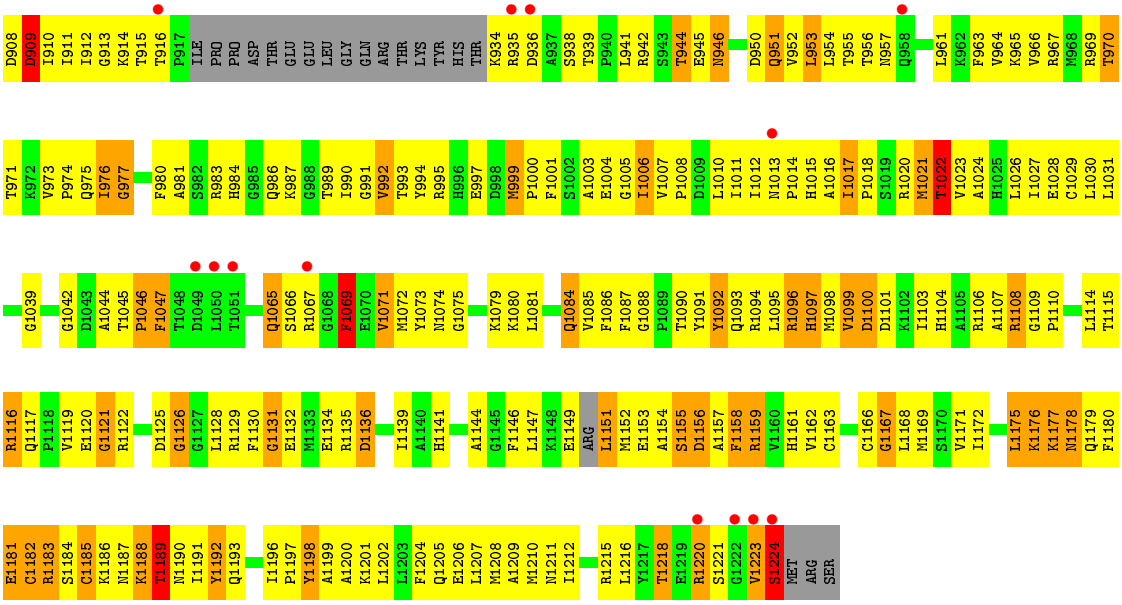




- Molecule 2: DNA-directed RNA polymerase subunit beta

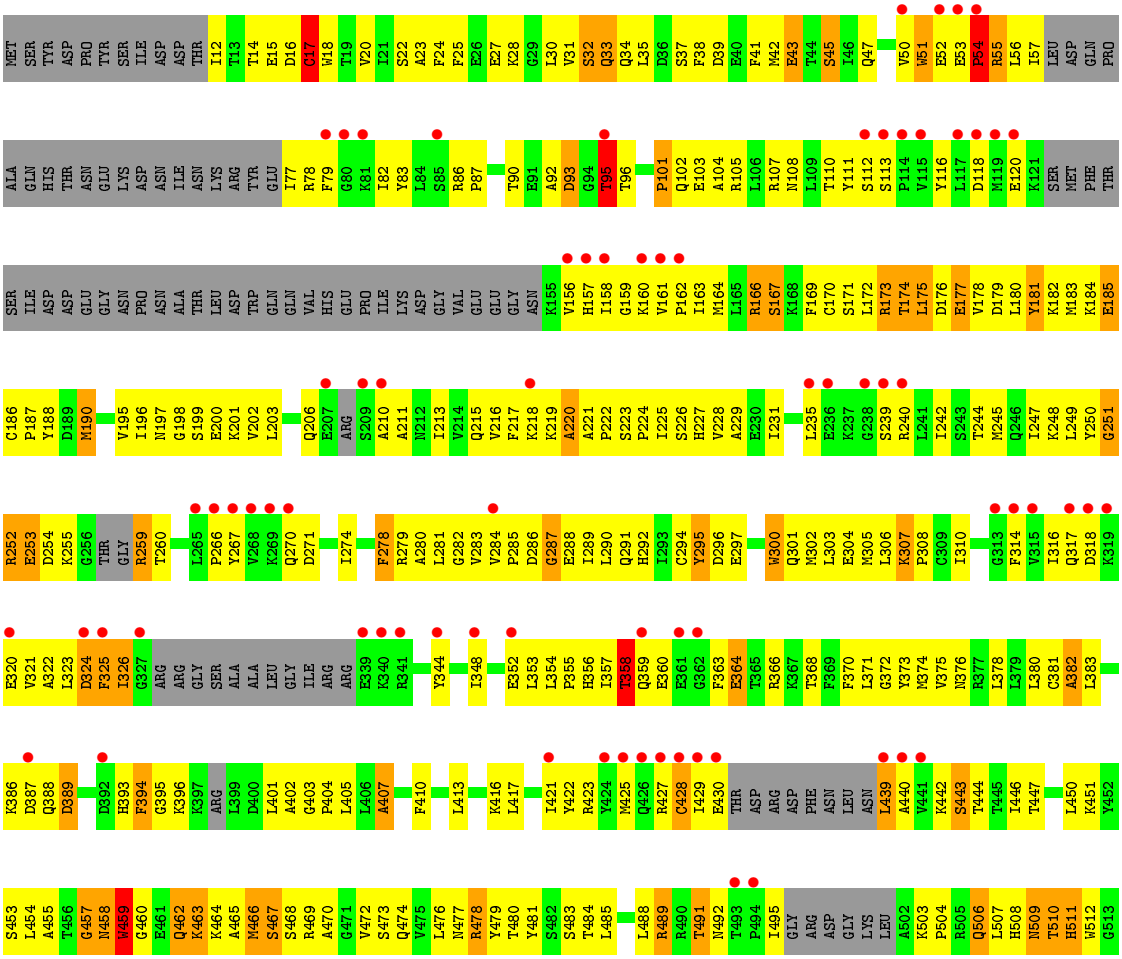
Chain B:

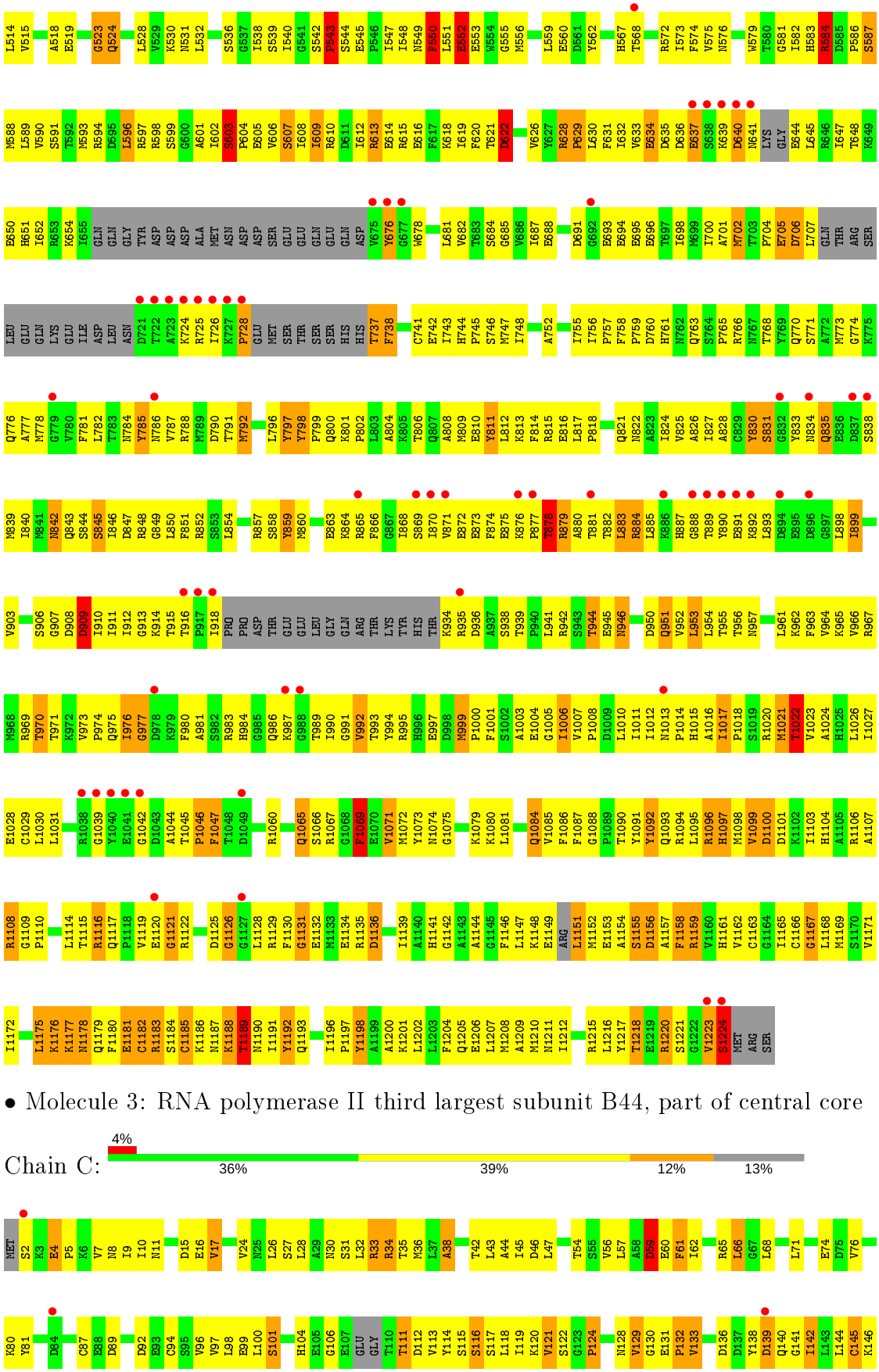




• Molecule 2: DNA-directed RNA polymerase subunit beta

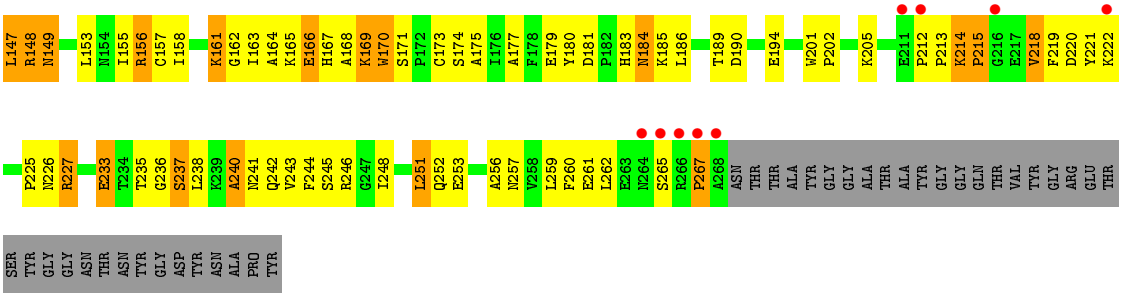
Chain N:





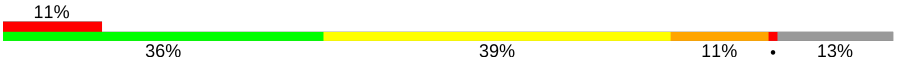
• Molecule 3: RNA polymerase II third largest subunit B44, part of central core

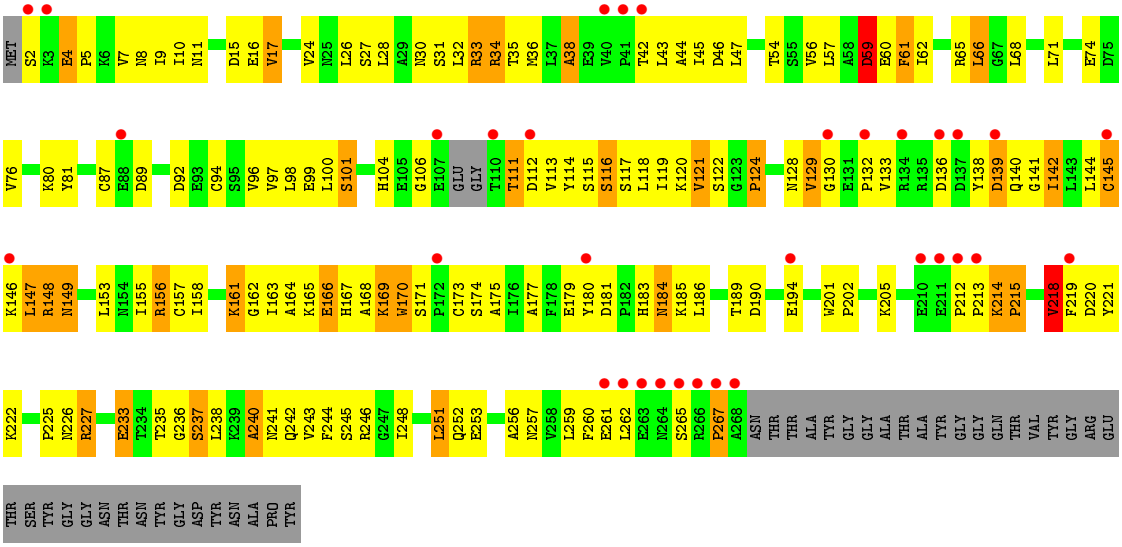
Chain C:



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

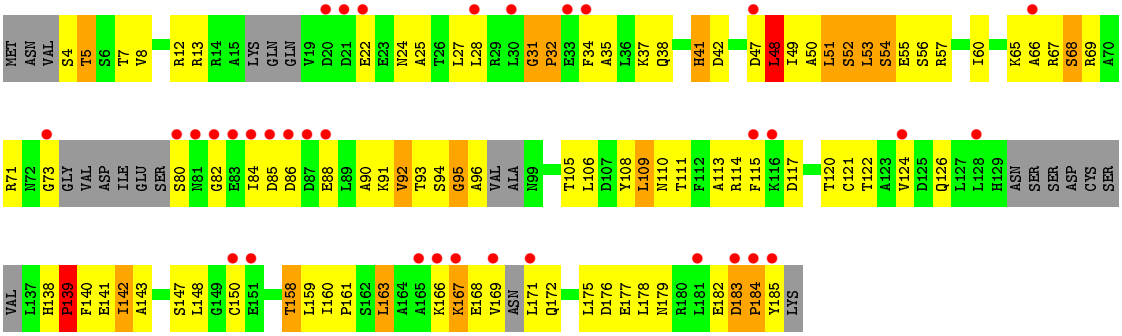
Chain O:





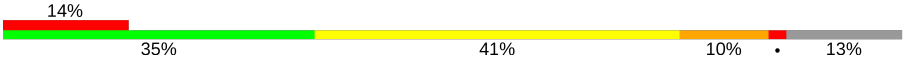
• Molecule 4: RNA polymerase II subunit B32

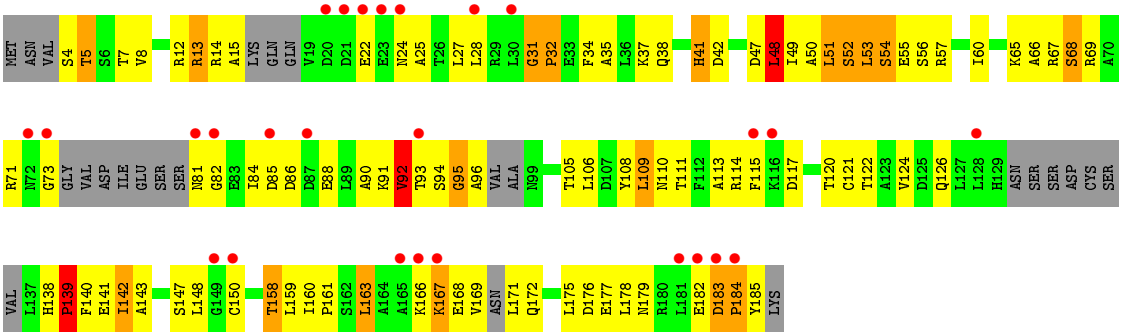
Chain D:



• Molecule 4: RNA polymerase II subunit B32

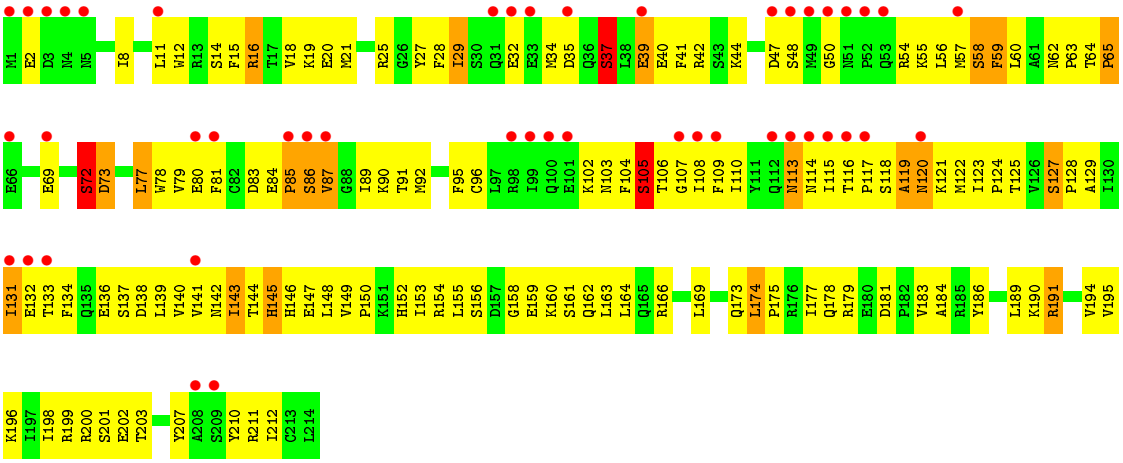
Chain P:





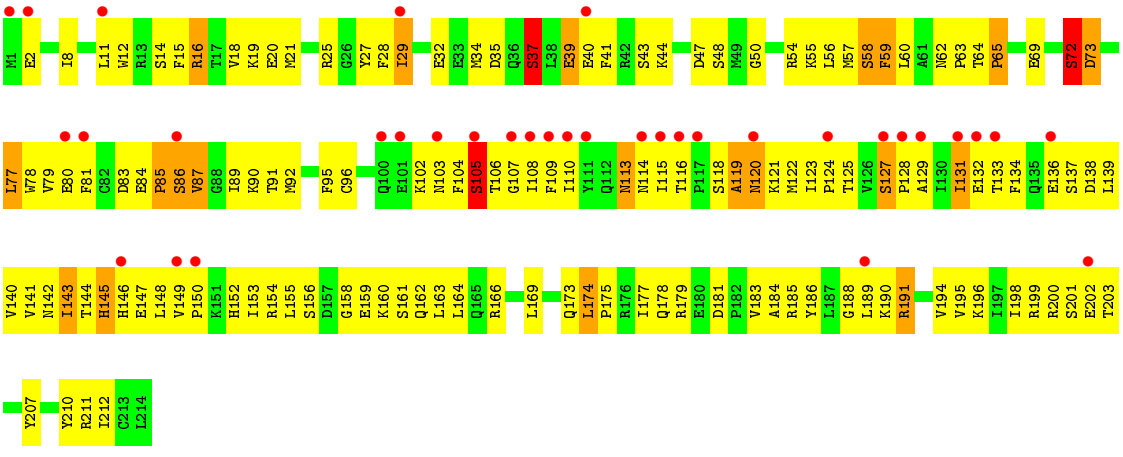
• Molecule 5: RNA polymerase subunit ABC27, common to RNA polymerases I, II, and III

Chain E:



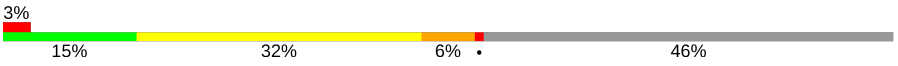
• Molecule 5: RNA polymerase subunit ABC27, common to RNA polymerases I, II, and III

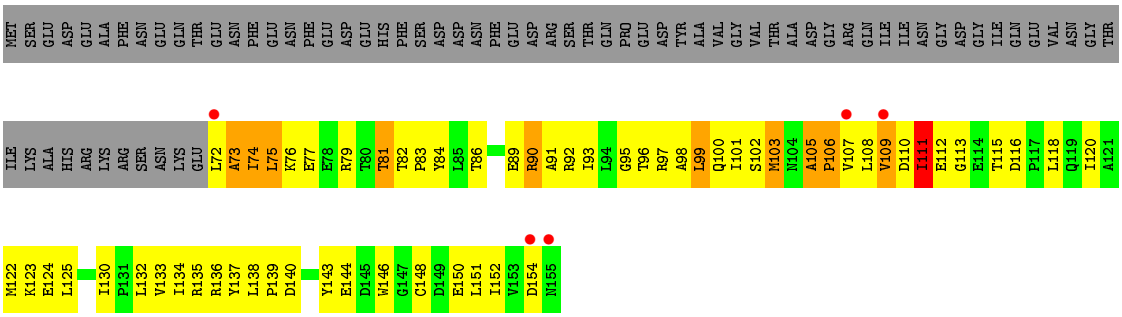
Chain Q:



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

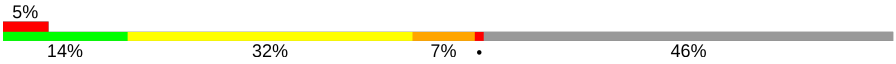
Chain F:

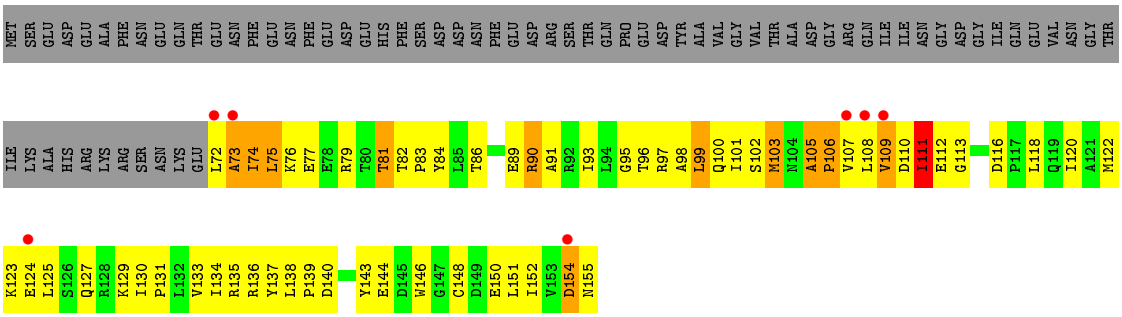




• Molecule 6: RNA polymerase subunit ABC23, common to RNA polymerases I, II, and III

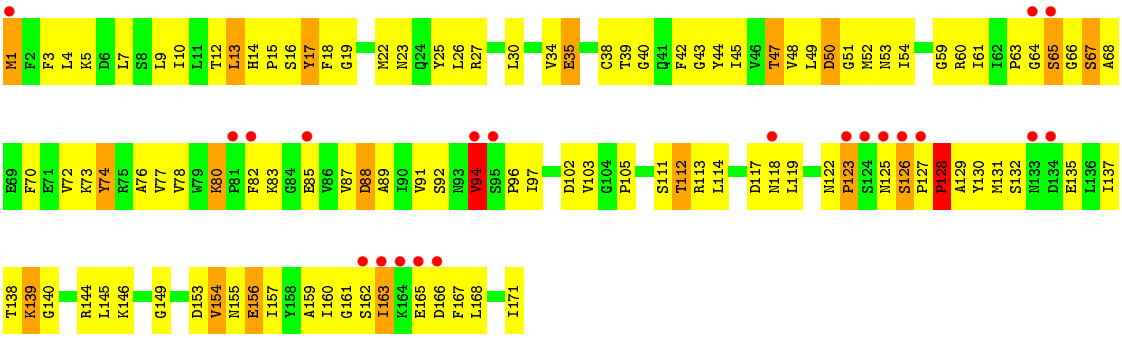
Chain R:





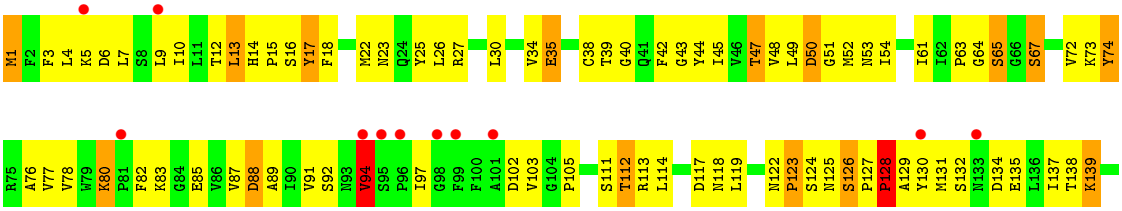
• Molecule 7: RNA polymerase II subunit

Chain G:



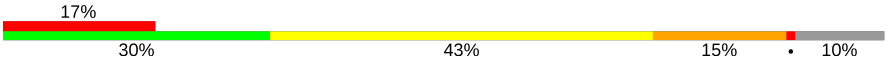
• Molecule 7: RNA polymerase II subunit

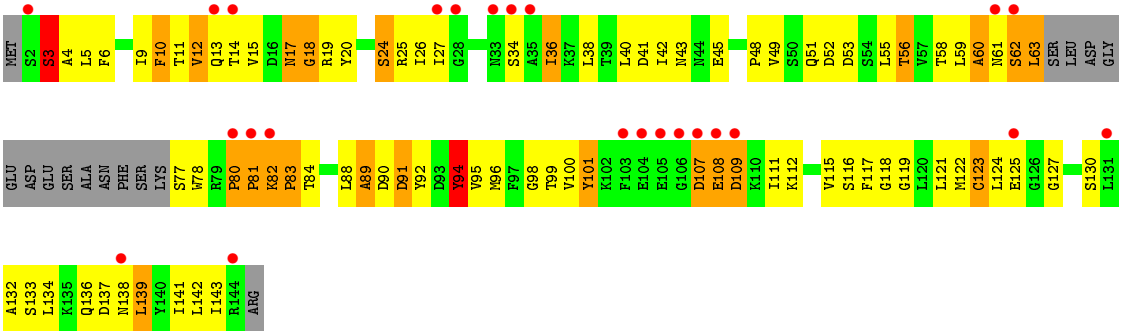
Chain S:



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

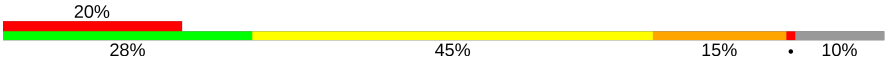
Chain H:

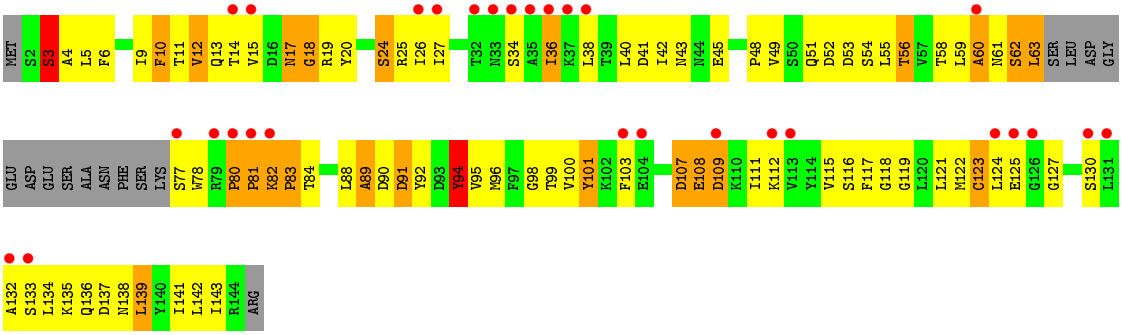




• Molecule 8: RNA polymerase subunit ABC14.5, common to RNA polymerases I, II, and III

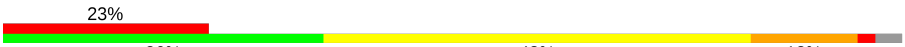
Chain T:

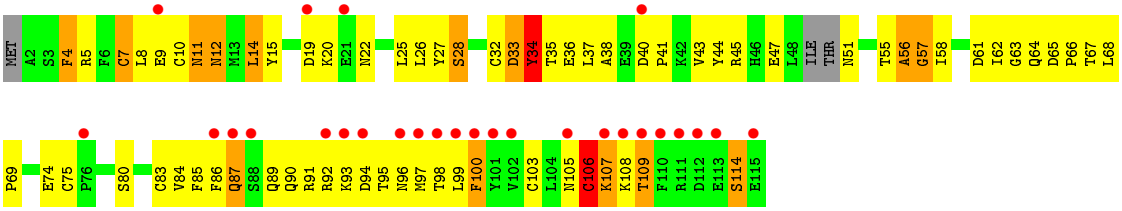




• Molecule 9: DNA-directed RNA polymerase subunit

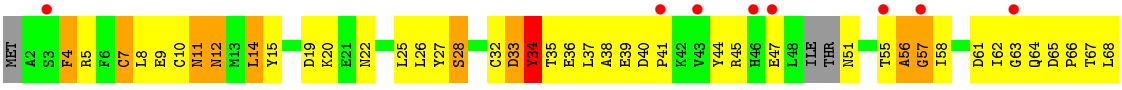
Chain I:

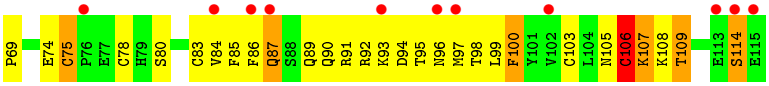




• Molecule 9: DNA-directed RNA polymerase subunit

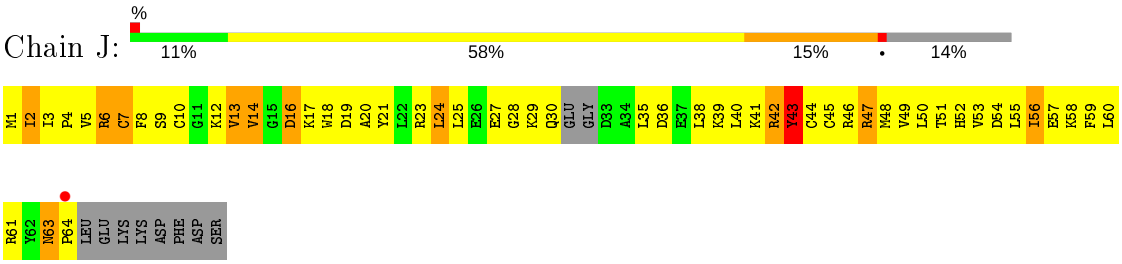
Chain U:





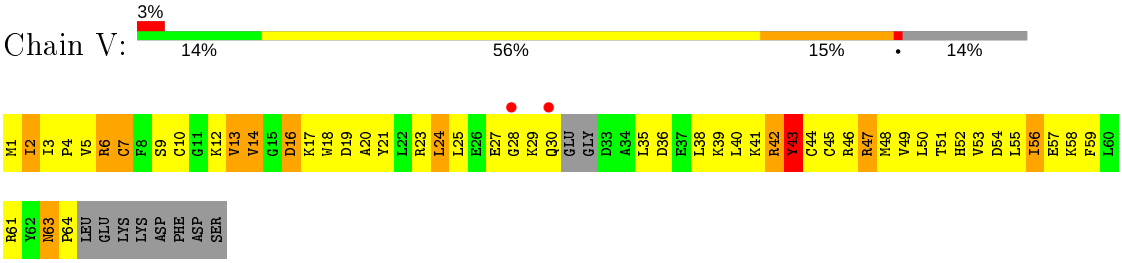
• Molecule 10: RNA polymerase subunit ABC10-beta, common to RNA polymerases I, II, and III

Chain J:



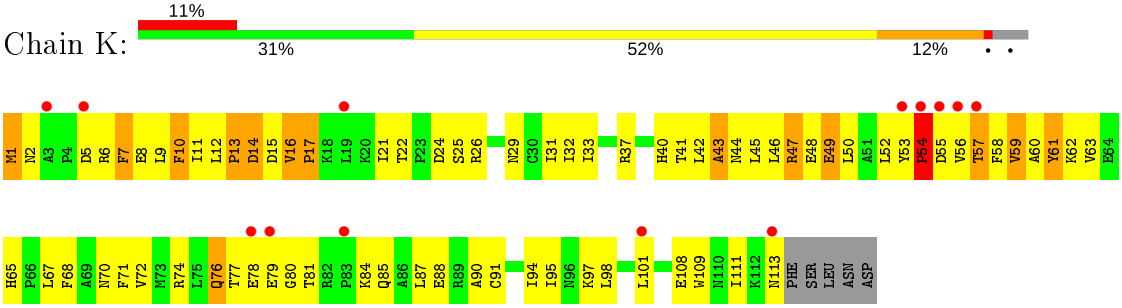
• Molecule 10: RNA polymerase subunit ABC10-beta, common to RNA polymerases I, II, and III

Chain V:



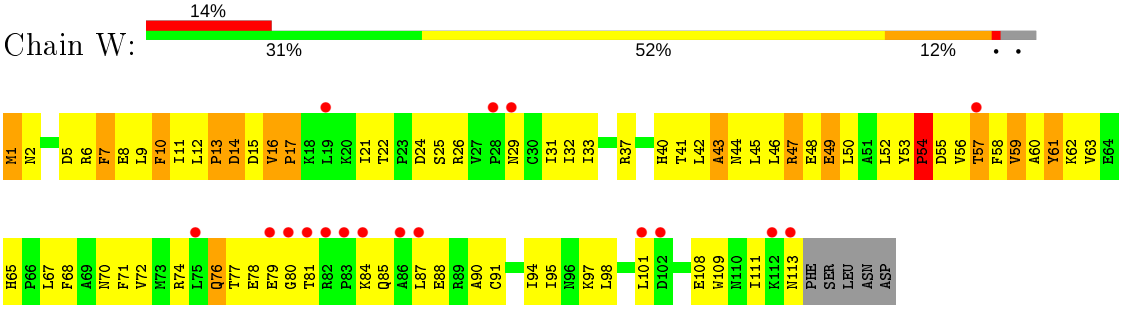
• Molecule 11: RNA polymerase II subunit B12.5

Chain K:



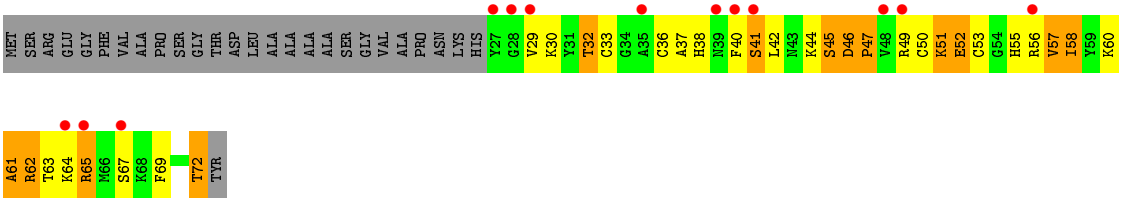
• Molecule 11: RNA polymerase II subunit B12.5

Chain W:



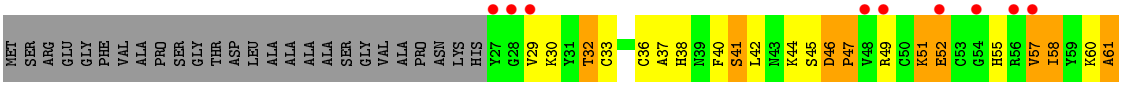
• Molecule 12: RNA polymerase subunit, found in RNA polymerase complexes I, II, and III

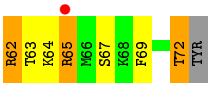
Chain L:



• 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	148.77Å 158.05Å 254.96Å 90.00° 92.54° 90.00°	Depositor
Resolution (Å)	33.27 – 7.00 49.58 – 7.00	Depositor EDS
% Data completeness (in resolution range)	99.5 (33.27-7.00) 99.4 (49.58-7.00)	Depositor EDS
R_{merge}	0.27	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.16 (at 6.68Å)	Xtriage
Refinement program	PHENIX dev_2614	Depositor
R, R_{free}	0.338 , 0.335 0.341 , 0.339	Depositor DCC
R_{free} test set	1886 reflections (10.06%)	wwPDB-VP
Wilson B-factor (Å^2)	221.0	Xtriage
Anisotropy	0.521	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.31 , 258.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.36$, $< L^2 > = 0.19$	Xtriage
Estimated twinning fraction	0.077 for h,-k,-l	Xtriage
F_o,F_c correlation	0.70	EDS
Total number of atoms	56615	wwPDB-VP
Average B, all atoms (Å^2)	261.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.10% 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	27/10398 (0.3%)	0.81	17/14034 (0.1%)
1	M	0.68	28/10414 (0.3%)	0.81	18/14057 (0.1%)
2	B	0.69	14/8323 (0.2%)	0.77	4/11212 (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	0.71	6/1888 (0.3%)	0.83	8/2558 (0.3%)
4	D	0.87	6/1109 (0.5%)	0.76	4/1490 (0.3%)
4	P	0.83	5/1103 (0.5%)	0.76	4/1482 (0.3%)
5	E	0.73	7/1668 (0.4%)	0.69	3/2245 (0.1%)
5	Q	0.73	7/1668 (0.4%)	0.69	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	0.94	7/1207 (0.6%)	0.80	1/1629 (0.1%)
7	S	0.94	7/1207 (0.6%)	0.80	1/1629 (0.1%)
8	H	1.39	8/968 (0.8%)	0.75	2/1310 (0.2%)
8	T	1.39	8/968 (0.8%)	0.75	2/1310 (0.2%)
9	I	0.92	4/861 (0.5%)	0.70	0/1159
9	U	0.92	4/861 (0.5%)	0.70	0/1159
10	J	0.55	0/495	0.80	0/664
10	V	0.55	0/495	0.80	0/664
11	K	0.65	2/842 (0.2%)	0.85	5/1139 (0.4%)
11	W	0.64	2/842 (0.2%)	0.85	5/1139 (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	0.75	171/57470 (0.3%)	0.79	98/77502 (0.1%)

All (171) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	H	24	SER	CB-OG	30.84	1.82	1.42
8	T	24	SER	CB-OG	30.64	1.82	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	N	17	CYS	CB-SG	-23.56	1.42	1.82
2	B	17	CYS	CB-SG	-23.49	1.42	1.82
2	N	428	CYS	CB-SG	-22.71	1.43	1.82
2	B	428	CYS	CB-SG	-22.61	1.43	1.82
1	A	220	CYS	CB-SG	-19.31	1.49	1.82
1	M	220	CYS	CB-SG	-19.28	1.49	1.82
8	T	123	CYS	CB-SG	-18.31	1.51	1.82
8	H	123	CYS	CB-SG	-18.19	1.51	1.82
1	A	996	CYS	CB-SG	-17.99	1.51	1.82
1	M	996	CYS	CB-SG	-17.96	1.51	1.82
9	U	83	CYS	CB-SG	-17.80	1.51	1.82
9	I	83	CYS	CB-SG	-17.73	1.52	1.82
7	G	47	THR	CB-OG1	17.37	1.77	1.43
6	F	148	CYS	CB-SG	-17.34	1.52	1.82
7	S	47	THR	CB-OG1	17.33	1.77	1.43
6	R	148	CYS	CB-SG	-17.29	1.52	1.82
5	E	96	CYS	CB-SG	-17.27	1.52	1.82
2	N	51	TRP	CB-CG	17.25	1.81	1.50
4	D	121	CYS	CB-SG	-17.22	1.52	1.82
4	P	121	CYS	CB-SG	-17.21	1.52	1.82
5	Q	96	CYS	CB-SG	-17.19	1.53	1.82
2	B	51	TRP	CB-CG	17.16	1.81	1.50
1	M	239	VAL	CB-CG1	12.93	1.79	1.52
1	A	239	VAL	CB-CG2	12.86	1.79	1.52
7	S	94	VAL	CB-CG2	12.41	1.78	1.52
7	G	94	VAL	CB-CG1	12.37	1.78	1.52
1	A	521	VAL	CB-CG1	11.04	1.76	1.52
1	M	521	VAL	CB-CG2	11.03	1.76	1.52
3	O	116	SER	CB-OG	10.09	1.55	1.42
3	C	116	SER	CB-OG	9.99	1.55	1.42
1	M	1021	GLN	CB-CG	9.98	1.79	1.52
1	A	1021	GLN	CB-CG	9.90	1.79	1.52
8	T	36	ILE	CB-CG1	9.84	1.81	1.54
8	H	36	ILE	CB-CG1	9.82	1.81	1.54
2	N	599	SER	CB-OG	9.81	1.55	1.42
2	B	599	SER	CB-OG	9.73	1.54	1.42
1	M	939	SER	CB-OG	9.44	1.54	1.42
1	A	939	SER	CB-OG	9.32	1.54	1.42
1	M	686	SER	CB-OG	9.21	1.54	1.42
1	A	686	SER	CB-OG	9.12	1.54	1.42
4	D	80	SER	CB-OG	9.02	1.53	1.42
4	D	68	SER	CB-OG	8.95	1.53	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	P	68	SER	CB-OG	8.86	1.53	1.42
2	B	591	SER	CB-OG	8.70	1.53	1.42
2	N	591	SER	CB-OG	8.61	1.53	1.42
1	M	932	SER	CB-OG	8.59	1.53	1.42
5	E	161	SER	CB-OG	8.58	1.53	1.42
1	A	932	SER	CB-OG	8.57	1.53	1.42
1	M	1223	SER	CB-OG	8.56	1.53	1.42
5	Q	161	SER	CB-OG	8.52	1.53	1.42
3	O	245	SER	CB-OG	8.51	1.53	1.42
1	M	729	SER	CB-OG	8.49	1.53	1.42
1	A	1223	SER	CB-OG	8.46	1.53	1.42
1	M	733	SER	CB-OG	8.45	1.53	1.42
1	A	729	SER	CB-OG	8.40	1.53	1.42
2	N	684	SER	CB-OG	8.38	1.53	1.42
3	C	245	SER	CB-OG	8.38	1.53	1.42
1	A	1283	SER	CB-OG	8.36	1.53	1.42
1	A	1293	SER	CB-OG	8.35	1.53	1.42
1	A	733	SER	CB-OG	8.34	1.53	1.42
2	B	684	SER	CB-OG	8.33	1.53	1.42
1	M	1293	SER	CB-OG	8.31	1.53	1.42
1	M	1283	SER	CB-OG	8.26	1.52	1.42
3	C	2	SER	CB-OG	8.20	1.52	1.42
3	O	101	SER	CB-OG	8.20	1.52	1.42
8	T	130	SER	CB-OG	8.20	1.52	1.42
1	A	1150	SER	CB-OG	8.19	1.52	1.42
8	H	130	SER	CB-OG	8.17	1.52	1.42
3	O	2	SER	CB-OG	8.16	1.52	1.42
7	G	126	SER	CB-OG	8.10	1.52	1.42
3	C	101	SER	CB-OG	8.05	1.52	1.42
1	M	1150	SER	CB-OG	8.05	1.52	1.42
7	S	92	SER	CB-OG	8.04	1.52	1.42
7	G	92	SER	CB-OG	8.00	1.52	1.42
7	S	126	SER	CB-OG	7.98	1.52	1.42
4	P	52	SER	CB-OG	7.96	1.52	1.42
8	T	34	SER	CB-OG	7.93	1.52	1.42
8	H	34	SER	CB-OG	7.92	1.52	1.42
1	M	1219	SER	CB-OG	7.89	1.52	1.42
4	D	52	SER	CB-OG	7.88	1.52	1.42
1	A	1219	SER	CB-OG	7.86	1.52	1.42
12	L	67	SER	CB-OG	7.83	1.52	1.42
5	E	105	SER	CB-OG	7.79	1.52	1.42
5	Q	105	SER	CB-OG	7.77	1.52	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	65	SER	CB-OG	7.75	1.52	1.42
12	X	67	SER	CB-OG	7.73	1.52	1.42
7	S	65	SER	CB-OG	7.72	1.52	1.42
2	B	1224	SER	CB-OG	7.66	1.52	1.42
1	A	749	SER	CB-OG	7.65	1.52	1.42
8	H	3	SER	CB-OG	7.59	1.52	1.42
1	A	585	SER	CB-OG	7.59	1.52	1.42
1	M	585	SER	CB-OG	7.57	1.52	1.42
9	I	114	SER	CB-OG	7.56	1.52	1.42
1	M	749	SER	CB-OG	7.52	1.52	1.42
2	N	1224	SER	CB-OG	7.49	1.51	1.42
9	U	114	SER	CB-OG	7.49	1.51	1.42
8	T	3	SER	CB-OG	7.48	1.51	1.42
3	C	117	SER	CB-OG	7.40	1.51	1.42
3	O	117	SER	CB-OG	7.39	1.51	1.42
9	I	28	SER	CB-OG	7.19	1.51	1.42
9	U	28	SER	CB-OG	7.17	1.51	1.42
2	N	171	SER	CB-OG	7.12	1.51	1.42
2	B	171	SER	CB-OG	6.93	1.51	1.42
1	A	720	SER	CB-OG	6.90	1.51	1.42
1	M	720	SER	CB-OG	6.87	1.51	1.42
5	Q	37	SER	CB-OG	6.78	1.51	1.42
1	M	556	SER	CB-OG	6.69	1.50	1.42
1	A	556	SER	CB-OG	6.69	1.50	1.42
5	E	37	SER	CB-OG	6.69	1.50	1.42
8	H	133	SER	CB-OG	6.67	1.50	1.42
8	T	133	SER	CB-OG	6.63	1.50	1.42
1	M	1340	SER	CB-OG	6.51	1.50	1.42
1	A	1327	SER	CB-OG	6.50	1.50	1.42
1	M	1327	SER	CB-OG	6.45	1.50	1.42
1	A	1340	SER	CB-OG	6.37	1.50	1.42
3	O	265	SER	CB-OG	6.31	1.50	1.42
2	N	603	SER	CB-OG	6.24	1.50	1.42
2	B	603	SER	CB-OG	6.23	1.50	1.42
1	M	916	TYR	CB-CG	-6.21	1.42	1.51
3	C	265	SER	CB-OG	6.17	1.50	1.42
1	A	916	TYR	CB-CG	-6.13	1.42	1.51
5	Q	72	SER	CB-OG	5.97	1.50	1.42
5	E	72	SER	CB-OG	5.96	1.50	1.42
1	A	1161	THR	CB-OG1	5.80	1.54	1.43
1	M	1161	THR	CB-OG1	5.64	1.54	1.43
2	N	1189	THR	CB-OG1	5.62	1.54	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1361	PHE	CB-CG	-5.57	1.41	1.51
2	N	544	SER	CB-OG	5.55	1.49	1.42
2	B	1189	THR	CB-OG1	5.55	1.54	1.43
2	B	544	SER	CB-OG	5.54	1.49	1.42
1	M	1361	PHE	CB-CG	-5.52	1.42	1.51
12	L	72	THR	CB-OG1	5.51	1.54	1.43
2	B	174	THR	CB-OG1	5.50	1.54	1.43
12	X	72	THR	CB-OG1	5.50	1.54	1.43
11	K	22	THR	CB-OG1	5.50	1.54	1.43
5	Q	69	GLU	CB-CG	-5.46	1.41	1.52
11	W	22	THR	CB-OG1	5.45	1.54	1.43
2	B	552	GLU	CB-CG	-5.43	1.41	1.52
2	N	174	THR	CB-OG1	5.43	1.54	1.43
2	N	552	GLU	CB-CG	-5.43	1.41	1.52
5	E	69	GLU	CB-CG	-5.39	1.42	1.52
1	A	257	THR	CB-OG1	5.33	1.53	1.43
8	H	11	THR	CB-OG1	5.33	1.53	1.43
1	M	257	THR	CB-OG1	5.31	1.53	1.43
5	Q	127	SER	CB-OG	5.31	1.49	1.42
8	T	11	THR	CB-OG1	5.30	1.53	1.43
7	G	156	GLU	CB-CG	-5.30	1.42	1.52
1	M	1171	THR	CB-OG1	5.30	1.53	1.43
4	P	168	GLU	CB-CG	-5.28	1.42	1.52
1	M	121	THR	CB-OG1	5.25	1.53	1.43
7	S	156	GLU	CB-CG	-5.25	1.42	1.52
4	D	168	GLU	CB-CG	-5.24	1.42	1.52
1	A	1171	THR	CB-OG1	5.24	1.53	1.43
1	A	121	THR	CB-OG1	5.20	1.53	1.43
5	E	127	SER	CB-OG	5.17	1.49	1.42
2	N	878	THR	CB-OG1	5.15	1.53	1.43
9	U	109	THR	CB-OG1	5.12	1.53	1.43
9	I	109	THR	CB-OG1	5.11	1.53	1.43
2	B	878	THR	CB-OG1	5.11	1.53	1.43
11	K	57	THR	CB-OG1	5.08	1.53	1.43
7	S	112	THR	CB-OG1	5.08	1.53	1.43
4	P	111	THR	CB-OG1	5.07	1.53	1.43
11	W	57	THR	CB-OG1	5.06	1.53	1.43
12	L	32	THR	CB-OG1	5.06	1.53	1.43
12	X	32	THR	CB-OG1	5.03	1.53	1.43
1	M	675	SER	CB-OG	5.03	1.48	1.42
7	G	112	THR	CB-OG1	5.01	1.53	1.43
2	N	178	VAL	CB-CG1	-5.01	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	111	THR	CB-OG1	5.00	1.53	1.43

All (98) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	X	29	VAL	CA-CB-CG1	9.64	125.36	110.90
12	L	29	VAL	CA-CB-CG2	9.62	125.33	110.90
2	N	682	VAL	CA-CB-CG1	7.27	121.81	110.90
2	B	682	VAL	CA-CB-CG2	7.27	121.81	110.90
11	W	54	PRO	N-CA-CB	7.01	111.71	103.30
1	A	217	PRO	N-CA-CB	7.00	111.70	103.30
11	K	54	PRO	N-CA-CB	6.95	111.64	103.30
1	M	217	PRO	N-CA-CB	6.92	111.61	103.30
1	A	198	PRO	N-CA-CB	6.84	111.50	103.30
3	C	124	PRO	CA-CB-CG	6.82	117.76	104.80
1	M	198	PRO	N-CA-CB	6.82	111.48	103.30
2	N	728	PRO	N-CA-CB	6.81	111.47	103.30
3	O	124	PRO	CA-CB-CG	6.80	117.72	104.80
2	B	728	PRO	N-CA-CB	6.77	111.43	103.30
1	A	1024	VAL	CA-CB-CG2	6.61	120.81	110.90
1	M	1024	VAL	CA-CB-CG1	6.61	120.81	110.90
1	M	707	PRO	N-CA-CB	6.43	111.02	103.30
1	A	707	PRO	N-CA-CB	6.42	111.00	103.30
11	W	17	PRO	N-CA-CB	6.41	110.99	103.30
11	K	17	PRO	N-CA-CB	6.36	110.93	103.30
1	A	48	PRO	N-CA-CB	6.31	110.87	103.30
1	M	986	PRO	N-CA-CB	6.29	110.85	103.30
1	M	48	PRO	N-CA-CB	6.29	110.84	103.30
1	A	1280	PRO	N-CA-CB	6.28	110.83	103.30
1	A	986	PRO	N-CA-CB	6.24	110.79	103.30
3	O	124	PRO	N-CA-CB	6.23	110.78	103.30
3	C	124	PRO	N-CA-CB	6.21	110.75	103.30
1	M	1280	PRO	N-CA-CB	6.21	110.75	103.30
4	P	32	PRO	N-CA-CB	6.18	110.72	103.30
4	D	32	PRO	N-CA-CB	6.14	110.67	103.30
1	M	1280	PRO	CA-CB-CG	6.09	116.38	104.80
2	B	543	PRO	N-CA-CB	6.09	110.61	103.30
2	N	543	PRO	N-CA-CB	6.08	110.60	103.30
4	D	184	PRO	N-CA-CB	6.04	110.54	103.30
4	P	184	PRO	N-CA-CB	6.03	110.53	103.30
1	A	1280	PRO	CA-CB-CG	6.02	116.24	104.80
12	X	47	PRO	N-CA-CB	5.97	110.46	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	W	54	PRO	CA-CB-CG	5.96	116.13	104.80
11	K	54	PRO	CA-CB-CG	5.96	116.12	104.80
12	L	47	PRO	N-CA-CB	5.96	110.45	103.30
8	T	17	ASN	CA-CB-CG	-5.85	100.52	113.40
8	H	17	ASN	CA-CB-CG	-5.83	100.57	113.40
3	O	225	PRO	N-CA-CB	5.76	110.21	103.30
3	C	225	PRO	N-CA-CB	5.73	110.17	103.30
1	M	120	PRO	N-CA-CB	5.72	110.17	103.30
8	H	83	PRO	N-CA-CB	5.67	110.11	103.30
6	F	75	LEU	CA-CB-CG	-5.63	102.36	115.30
6	R	75	LEU	CA-CB-CG	-5.62	102.36	115.30
7	S	123	PRO	N-CA-CB	5.62	110.05	103.30
1	A	120	PRO	N-CA-CB	5.60	110.02	103.30
3	C	267	PRO	CA-CB-CG	5.60	115.43	104.80
11	W	11	ILE	CA-CB-CG1	5.59	121.63	111.00
11	K	11	ILE	CA-CB-CG1	5.57	121.58	111.00
7	G	123	PRO	N-CA-CB	5.56	109.97	103.30
3	O	267	PRO	CA-CB-CG	5.54	115.33	104.80
1	A	986	PRO	CA-CB-CG	5.50	115.25	104.80
8	T	83	PRO	N-CA-CB	5.50	109.91	103.30
11	W	13	PRO	N-CA-CB	5.49	109.88	103.30
11	K	13	PRO	N-CA-CB	5.48	109.88	103.30
1	M	1135	VAL	CA-CB-CG2	5.46	119.10	110.90
1	A	1124	ARG	CA-CB-CG	-5.46	101.39	113.40
1	M	986	PRO	CA-CB-CG	5.44	115.14	104.80
1	M	1124	ARG	CA-CB-CG	-5.44	101.44	113.40
1	A	1135	VAL	CA-CB-CG1	5.41	119.02	110.90
3	C	38	ALA	N-CA-C	5.40	125.58	111.00
3	C	267	PRO	N-CA-CB	5.37	109.75	103.30
3	O	38	ALA	N-CA-C	5.37	125.50	111.00
1	A	97	PRO	N-CA-CB	5.36	109.73	103.30
1	M	97	PRO	N-CA-CB	5.33	109.69	103.30
3	O	267	PRO	N-CA-CB	5.31	109.67	103.30
1	A	267	LEU	N-CA-C	-5.28	96.75	111.00
1	M	267	LEU	N-CA-C	-5.27	96.78	111.00
2	B	544	SER	N-CA-CB	-5.23	102.66	110.50
4	D	32	PRO	CA-CB-CG	5.22	114.72	104.80
4	D	184	PRO	CA-CB-CG	5.22	114.72	104.80
4	P	184	PRO	CA-CB-CG	5.22	114.72	104.80
6	F	111	ILE	CA-CB-CG1	5.21	120.91	111.00
2	N	544	SER	N-CA-CB	-5.21	102.68	110.50
6	R	111	ILE	CA-CB-CG1	5.21	120.89	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	980	ALA	N-CA-CB	-5.20	102.82	110.10
5	E	65	PRO	N-CA-CB	5.18	109.51	103.30
4	P	32	PRO	CA-CB-CG	5.17	114.62	104.80
1	A	675	SER	N-CA-CB	-5.17	102.75	110.50
5	Q	65	PRO	N-CA-CB	5.15	109.48	103.30
5	E	65	PRO	CA-CB-CG	5.14	114.57	104.80
1	M	675	SER	N-CA-CB	-5.14	102.79	110.50
1	M	131	PRO	N-CA-CB	5.11	109.43	103.30
3	O	215	PRO	CA-CB-CG	5.10	114.49	104.80
5	Q	127	SER	N-CA-CB	-5.10	102.85	110.50
1	A	980	ALA	N-CA-CB	-5.10	102.97	110.10
5	E	127	SER	N-CA-CB	-5.09	102.86	110.50
3	C	215	PRO	CA-CB-CG	5.09	114.47	104.80
5	Q	65	PRO	CA-CB-CG	5.09	114.46	104.80
1	A	131	PRO	N-CA-CB	5.08	109.40	103.30
3	O	218	VAL	CA-CB-CG1	-5.07	103.30	110.90
3	C	218	VAL	CA-CB-CG2	-5.07	103.30	110.90
5	Q	72	SER	N-CA-CB	-5.01	102.98	110.50
1	M	1297	GLU	CA-CB-CG	-5.01	102.38	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	9733	1266	2
1	M	10262	0	9743	1348	1
2	B	8182	0	7871	990	0
2	N	8190	0	7882	1121	0
3	C	1863	0	1645	198	6
3	O	1863	0	1645	190	5
4	D	1105	0	964	99	5
4	P	1099	0	958	117	3
5	E	1638	0	1551	159	0
5	Q	1638	0	1551	159	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	F	637	0	620	97	0
6	R	637	0	620	94	0
7	G	1187	0	1092	224	5
7	S	1187	0	1092	149	13
8	H	953	0	851	118	4
8	T	953	0	851	124	2
9	I	847	0	756	79	0
9	U	847	0	756	83	7
10	J	487	0	492	120	0
10	V	487	0	492	114	0
11	K	826	0	723	89	5
11	W	826	0	723	88	6
12	L	319	0	287	31	8
12	X	319	0	287	27	6
13	A	2	0	0	0	0
13	B	1	0	0	0	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	1	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	56615	0	53185	6279	39

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 57.

All (6279) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1397:THR:HG21	1:M:1401:MET:SD	1.33	1.67
2:N:51:TRP:CG	2:N:51:TRP:CB	1.81	1.64
1:M:521:VAL:CB	1:M:521:VAL:CG2	1.76	1.62
2:B:51:TRP:CB	2:B:51:TRP:CG	1.81	1.60
1:M:239:VAL:CG1	1:M:239:VAL:CB	1.80	1.60
1:A:239:VAL:CB	1:A:239:VAL:CG2	1.79	1.60
8:H:36:ILE:CG1	8:H:36:ILE:CB	1.81	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:94:VAL:CB	7:S:94:VAL:CG2	1.78	1.59
1:A:521:VAL:CG1	1:A:521:VAL:CB	1.76	1.58
2:B:556:MET:CE	2:B:573:ILE:HG21	1.33	1.58
1:A:1021:GLN:CB	1:A:1021:GLN:CG	1.79	1.58
1:M:345:ARG:HA	2:N:1129:ARG:CA	1.32	1.57
8:T:36:ILE:CG1	8:T:36:ILE:CB	1.81	1.57
5:E:123:ILE:CG1	5:E:124:PRO:HD3	1.30	1.55
1:M:1021:GLN:CB	1:M:1021:GLN:CG	1.79	1.54
7:G:94:VAL:CB	7:G:94:VAL:CG1	1.78	1.54
2:N:556:MET:CE	2:N:573:ILE:CG2	1.83	1.54
2:B:556:MET:CE	2:B:573:ILE:CG2	1.83	1.53
5:Q:123:ILE:CG1	5:Q:124:PRO:HD3	1.32	1.53
1:M:320:GLY:CA	2:N:464:LYS:HA	1.35	1.53
2:N:1221:SER:HB3	4:P:12:ARG:CB	1.42	1.50
2:N:556:MET:CE	2:N:573:ILE:HG21	1.33	1.50
1:M:346:VAL:HG11	2:N:1130:PHE:CB	1.38	1.50
1:M:911:PRO:HA	1:M:917:ALA:CB	1.44	1.48
1:M:345:ARG:CA	2:N:1129:ARG:HA	1.44	1.47
1:M:346:VAL:CG1	2:N:1130:PHE:HB2	1.40	1.46
1:A:799:GLY:HA2	1:A:816:PHE:CD1	1.51	1.45
1:A:911:PRO:HA	1:A:917:ALA:CB	1.44	1.45
1:M:346:VAL:CG1	2:N:1130:PHE:CB	1.92	1.45
1:A:1447:MET:CB	7:G:59:GLY:O	1.65	1.43
1:A:911:PRO:CB	1:A:917:ALA:HB3	1.49	1.43
1:M:911:PRO:CB	1:M:917:ALA:HB3	1.49	1.40
11:W:43:ALA:HB1	11:W:61:TYR:CD1	1.56	1.40
11:K:43:ALA:HB1	11:K:61:TYR:CD1	1.56	1.39
1:M:342:MET:HE2	1:M:844:LYS:NZ	1.18	1.39
1:A:1448:ILE:HG21	7:G:18:PHE:CE2	1.58	1.39
1:M:1397:THR:CG2	1:M:1401:MET:SD	2.11	1.36
1:M:911:PRO:CA	1:M:917:ALA:CB	2.02	1.36
1:A:911:PRO:CA	1:A:917:ALA:CB	2.03	1.36
7:S:89:ALA:HB1	7:S:102:ASP:O	1.26	1.35
2:N:1217:TYR:CE2	4:P:14:ARG:HA	1.61	1.35
2:N:1149:GLU:O	2:N:1153:GLU:HB2	1.22	1.35
5:E:123:ILE:CG1	5:E:124:PRO:CD	2.02	1.34
2:N:1221:SER:CB	4:P:12:ARG:CB	2.05	1.33
5:Q:123:ILE:CG1	5:Q:124:PRO:CD	2.04	1.33
7:G:89:ALA:HB1	7:G:102:ASP:O	1.26	1.33
7:S:47:THR:CB	7:S:47:THR:OG1	1.77	1.31
1:M:342:MET:CE	1:M:844:LYS:NZ	1.93	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1447:MET:CG	7:G:60:ARG:CA	2.09	1.31
3:C:47:LEU:HB3	3:C:158:ILE:CG2	1.59	1.31
1:A:345:ARG:CA	2:B:1129:ARG:HA	1.60	1.30
3:O:47:LEU:HB3	3:O:158:ILE:CG2	1.59	1.30
7:G:47:THR:CB	7:G:47:THR:OG1	1.78	1.29
1:A:1453:LEU:HD11	7:G:18:PHE:O	1.12	1.28
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
8:T:24:SER:CB	8:T:24:SER:OG	1.82	1.28
11:K:43:ALA:CB	11:K:61:TYR:CE1	2.16	1.27
11:W:43:ALA:CB	11:W:61:TYR:CE1	2.16	1.27
5:E:89:ILE:HG23	5:E:119:ALA:N	1.47	1.27
1:A:345:ARG:HA	2:B:1129:ARG:CA	1.64	1.26
5:E:80:GLU:O	5:E:110:ILE:HG22	1.35	1.26
5:E:89:ILE:CG2	5:E:119:ALA:N	1.99	1.26
2:B:1221:SER:HB2	4:D:12:ARG:CB	1.64	1.26
5:Q:89:ILE:HG23	5:Q:119:ALA:N	1.48	1.26
11:W:43:ALA:HB1	11:W:61:TYR:CE1	1.68	1.26
1:M:345:ARG:HA	2:N:1129:ARG:CB	1.64	1.26
1:M:1448:ILE:CG2	7:S:61:ILE:HD11	1.63	1.26
1:A:1450:GLU:OE2	7:G:23:ASN:HB2	1.37	1.25
2:N:556:MET:HE3	2:N:573:ILE:CG2	1.52	1.25
5:Q:89:ILE:CG2	5:Q:119:ALA:N	1.98	1.25
2:N:1149:GLU:HA	2:N:1153:GLU:OE1	1.30	1.24
1:M:319:SER:O	2:N:463:LYS:O	1.56	1.23
2:N:1217:TYR:CZ	4:P:14:ARG:HA	1.61	1.23
1:A:1447:MET:HG3	7:G:60:ARG:CA	1.67	1.21
2:N:387:ASP:OD2	9:U:91:ARG:NE	1.73	1.21
1:A:1447:MET:CG	7:G:60:ARG:HA	1.64	1.21
1:A:1447:MET:HG3	7:G:60:ARG:CB	1.71	1.20
1:A:1446:VAL:O	7:G:61:ILE:N	1.74	1.19
6:F:132:LEU:CD2	7:G:61:ILE:HD11	1.73	1.18
6:F:132:LEU:HD21	7:G:61:ILE:CD1	1.72	1.18
1:M:343:GLY:O	2:N:1129:ARG:NH2	1.77	1.17
2:B:556:MET:HE3	2:B:573:ILE:CG2	1.54	1.17
2:B:889:THR:O	2:B:910:ILE:HG22	1.44	1.17
5:Q:80:GLU:O	5:Q:110:ILE:HG22	1.41	1.16
1:M:320:GLY:CA	2:N:464:LYS:CA	2.22	1.16
1:M:578:LEU:O	1:M:581:ILE:HG22	1.43	1.16
1:A:578:LEU:O	1:A:581:ILE:HG22	1.41	1.16
1:M:318:LYS:HA	2:N:464:LYS:CE	1.76	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:99:GLU:HB2	3:O:119:ILE:HG23	1.24	1.15
2:B:556:MET:HE1	2:B:573:ILE:HG23	1.16	1.15
6:F:132:LEU:CD2	7:G:61:ILE:CD1	2.24	1.15
1:A:1447:MET:HG3	7:G:60:ARG:HA	1.22	1.15
2:N:889:THR:O	2:N:910:ILE:HG22	1.45	1.15
5:Q:89:ILE:HG22	5:Q:119:ALA:HA	1.28	1.14
1:A:911:PRO:CB	1:A:917:ALA:CB	2.22	1.14
2:N:1117:GLN:NE2	2:N:1156:ASP:OD2	1.80	1.14
5:E:89:ILE:HG22	5:E:119:ALA:HA	1.28	1.13
3:O:99:GLU:HB2	3:O:119:ILE:CG2	1.79	1.13
1:M:320:GLY:N	2:N:464:LYS:HA	1.62	1.13
6:F:103:MET:HE1	7:G:65:SER:HB2	1.31	1.12
3:C:99:GLU:HB2	3:C:119:ILE:HG23	1.25	1.12
3:O:42:THR:HG22	3:O:43:LEU:H	1.08	1.12
1:A:911:PRO:HB3	1:A:917:ALA:CB	1.77	1.11
1:M:911:PRO:HA	1:M:917:ALA:HB2	1.16	1.11
1:M:53:LEU:HD23	1:M:54:ASN:H	1.15	1.11
1:A:1447:MET:HG2	7:G:60:ARG:N	1.65	1.11
1:A:766:VAL:HG21	1:A:809:LEU:HD11	1.22	1.11
3:C:99:GLU:HB2	3:C:119:ILE:CG2	1.79	1.11
3:O:47:LEU:HB3	3:O:158:ILE:HG21	1.30	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	1.10
1:M:911:PRO:HB3	1:M:917:ALA:CB	1.77	1.10
1:M:246:GLN:O	2:N:1114:LEU:CD1	1.97	1.10
6:R:109:VAL:HG12	6:R:110:ASP:H	1.15	1.10
1:A:1029:ALA:O	1:A:1033:ILE:HG23	1.52	1.10
1:A:53:LEU:HD23	1:A:54:ASN:H	1.15	1.10
1:A:769:GLN:OE1	1:A:817:HIS:HA	1.51	1.10
1:A:911:PRO:HB3	1:A:917:ALA:HB3	1.15	1.09
1:M:346:VAL:O	2:N:1128:LEU:O	1.68	1.09
1:A:911:PRO:HA	1:A:917:ALA:HB2	1.16	1.09
2:N:582:ILE:CG1	2:N:583:HIS:H	1.64	1.09
2:N:1215:ARG:HD2	4:P:15:ALA:HB2	1.32	1.09
1:A:1447:MET:HB3	7:G:59:GLY:C	1.71	1.09
5:E:89:ILE:CG2	5:E:118:SER:C	2.21	1.09
2:B:582:ILE:CG1	2:B:583:HIS:H	1.64	1.09
3:C:42:THR:HG22	3:C:43:LEU:H	1.08	1.08
7:S:88:ASP:HB3	7:S:144:ARG:HA	1.35	1.08
1:A:53:LEU:HD23	1:A:54:ASN:N	1.68	1.08
1:M:1441:THR:CG2	2:N:1144:ALA:HB3	1.83	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:988:ILE:HD13	1:M:1033:ILE:CG1	1.83	1.08
5:Q:89:ILE:CG2	5:Q:118:SER:C	2.20	1.08
1:A:988:ILE:HD13	1:A:1033:ILE:CG1	1.83	1.08
2:B:1159:ARG:HB3	2:B:1159:ARG:HH11	1.14	1.08
1:A:1448:ILE:HD11	7:G:68:ALA:HB1	1.32	1.08
1:M:1447:MET:HE1	6:R:135:ARG:HB2	1.12	1.08
2:B:1221:SER:CB	4:D:12:ARG:CB	2.31	1.08
1:M:320:GLY:HA2	2:N:464:LYS:HA	1.35	1.08
6:F:109:VAL:HG12	6:F:110:ASP:H	1.15	1.07
1:M:1029:ALA:O	1:M:1033:ILE:HG23	1.54	1.07
1:M:40:ILE:HB	1:M:41:MET:HE2	1.13	1.07
9:U:34:TYR:HD2	9:U:35:THR:N	1.52	1.07
1:M:346:VAL:HG13	2:N:1130:PHE:CB	1.78	1.07
2:N:556:MET:HE1	2:N:573:ILE:HG23	1.16	1.07
1:M:911:PRO:HB3	1:M:917:ALA:HB3	1.15	1.07
3:C:47:LEU:HB3	3:C:158:ILE:HG21	1.29	1.07
1:A:591:ARG:NH2	1:A:621:LYS:HB3	1.70	1.07
1:M:318:LYS:CA	2:N:464:LYS:HE2	1.84	1.07
2:N:1159:ARG:HB3	2:N:1159:ARG:HH11	1.14	1.07
1:M:53:LEU:HD23	1:M:54:ASN:N	1.68	1.06
1:A:41:MET:HB3	1:A:49:ARG:HA	1.35	1.06
1:A:1453:LEU:CD1	7:G:18:PHE:O	2.04	1.06
3:C:141:GLY:O	3:C:142:ILE:CG1	2.03	1.06
1:A:1447:MET:CG	7:G:60:ARG:CB	2.32	1.06
1:M:911:PRO:CB	1:M:917:ALA:CB	2.21	1.06
1:A:40:ILE:HB	1:A:41:MET:HE2	1.14	1.05
9:I:34:TYR:HD2	9:I:35:THR:N	1.52	1.05
1:M:591:ARG:NH2	1:M:621:LYS:HB3	1.70	1.05
7:G:88:ASP:HB3	7:G:144:ARG:HA	1.35	1.05
1:M:1448:ILE:HG23	7:S:61:ILE:HD11	1.34	1.05
1:A:1447:MET:HB3	7:G:59:GLY:O	0.87	1.04
2:B:1007:VAL:HG22	2:B:1008:PRO:HD2	1.40	1.04
1:A:739:LYS:HB2	1:A:741:LEU:HD23	1.39	1.04
1:M:346:VAL:HG11	2:N:1130:PHE:HB3	1.24	1.04
2:N:1117:GLN:HE21	2:N:1156:ASP:CG	1.59	1.04
6:R:100:GLN:NE2	7:S:61:ILE:HG21	1.71	1.04
1:M:320:GLY:HA3	2:N:464:LYS:HA	1.38	1.03
3:O:4:GLU:CB	3:O:5:PRO:HD2	1.88	1.03
1:M:739:LYS:HB2	1:M:741:LEU:HD23	1.40	1.03
6:F:103:MET:CE	7:G:65:SER:HB2	1.87	1.03
1:M:333:LYS:H	1:M:338:ARG:HB3	1.23	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1448:ILE:CG2	7:G:18:PHE:HE2	1.70	1.03
1:M:911:PRO:CA	1:M:917:ALA:HB3	1.79	1.03
1:M:41:MET:HB3	1:M:49:ARG:HA	1.36	1.03
3:O:141:GLY:O	3:O:142:ILE:CG1	2.05	1.03
1:A:1397:THR:HG21	1:A:1401:MET:SD	1.99	1.03
1:A:553:TRP:HE1	11:K:62:LYS:HB2	1.24	1.03
1:M:346:VAL:CG1	2:N:1130:PHE:HB3	1.74	1.03
3:C:4:GLU:CB	3:C:5:PRO:HD2	1.88	1.03
1:M:1389:ARG:HB2	1:M:1406:GLU:OE1	1.59	1.02
5:Q:120:ASN:O	5:Q:123:ILE:HG23	1.57	1.02
1:M:320:GLY:HA2	2:N:464:LYS:CA	1.85	1.02
1:A:780:PHE:HE1	1:A:786:PRO:HD3	1.25	1.02
3:O:4:GLU:CB	3:O:5:PRO:CD	2.38	1.02
1:M:255:GLU:HB2	2:N:935:ARG:NH1	1.73	1.02
6:R:100:GLN:HE22	7:S:61:ILE:HG21	1.23	1.02
2:N:999:MET:HG3	2:N:1000:PRO:HD2	1.40	1.02
2:B:556:MET:CE	2:B:573:ILE:HG23	1.69	1.01
11:K:43:ALA:HB3	11:K:61:TYR:CE1	1.92	1.01
1:M:1448:ILE:HG21	7:S:61:ILE:HD11	1.35	1.01
1:M:553:TRP:HE1	11:W:62:LYS:HB2	1.24	1.01
1:M:799:GLY:HA2	1:M:816:PHE:CD1	1.95	1.01
11:W:43:ALA:HB3	11:W:61:TYR:CE1	1.92	1.01
3:O:47:LEU:HB3	3:O:158:ILE:HG23	1.41	1.01
3:C:47:LEU:HB3	3:C:158:ILE:HG23	1.41	1.01
1:M:1448:ILE:HG23	7:S:61:ILE:CD1	1.90	1.01
3:C:4:GLU:CB	3:C:5:PRO:CD	2.37	1.00
2:N:556:MET:CE	2:N:573:ILE:HG23	1.69	1.00
1:M:318:LYS:HA	2:N:464:LYS:HE2	1.02	1.00
1:M:1013:GLN:O	1:M:1017:THR:HG23	1.62	1.00
1:M:75:ALA:HA	2:N:1116:ARG:NH2	1.76	1.00
1:A:1450:GLU:OE2	7:G:23:ASN:CB	2.08	1.00
1:A:444:LEU:HD11	1:A:456:MET:HB3	1.44	1.00
2:B:999:MET:HG3	2:B:1000:PRO:HD2	1.41	1.00
1:M:444:LEU:HD11	1:M:456:MET:HB3	1.44	0.99
1:A:799:GLY:CA	1:A:816:PHE:CD1	2.44	0.99
6:F:82:THR:HG22	6:F:84:TYR:H	1.27	0.99
1:A:333:LYS:H	1:A:338:ARG:HB3	1.22	0.99
10:J:43:TYR:HA	10:J:46:ARG:HB2	1.45	0.99
7:G:138:THR:HG22	7:G:139:LYS:H	1.28	0.99
2:N:1159:ARG:HB3	2:N:1159:ARG:NH1	1.78	0.99
10:V:43:TYR:HA	10:V:46:ARG:HB2	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:769:GLN:HB3	1:M:820:ALA:HB2	1.41	0.98
1:A:911:PRO:CA	1:A:917:ALA:HB1	1.93	0.98
2:N:1217:TYR:CE2	4:P:14:ARG:CA	2.46	0.98
5:E:89:ILE:CG2	5:E:119:ALA:CA	2.42	0.98
1:M:780:PHE:HE1	1:M:786:PRO:HD3	1.25	0.98
1:A:769:GLN:HG3	1:A:817:HIS:N	1.78	0.98
2:N:1007:VAL:HG22	2:N:1008:PRO:HD2	1.40	0.98
1:M:255:GLU:HB2	2:N:935:ARG:HH12	1.28	0.98
1:M:505:LEU:HD11	6:R:91:ALA:CB	1.93	0.98
1:A:1118:LEU:N	1:A:1311:THR:HG22	1.79	0.98
1:A:1448:ILE:CG1	7:G:68:ALA:CB	2.42	0.98
1:M:342:MET:CE	1:M:844:LYS:HZ1	1.61	0.98
6:R:82:THR:HG22	6:R:84:TYR:H	1.27	0.98
2:B:882:THR:HG1	2:B:934:LYS:N	1.60	0.97
6:F:132:LEU:HD21	7:G:61:ILE:HD11	1.29	0.97
5:Q:89:ILE:HG22	5:Q:119:ALA:CA	1.93	0.97
2:B:582:ILE:CG1	2:B:583:HIS:N	2.22	0.97
11:W:43:ALA:HB3	11:W:61:TYR:HE1	1.26	0.97
1:A:1013:GLN:O	1:A:1017:THR:HG23	1.62	0.97
1:A:911:PRO:CA	1:A:917:ALA:HB3	1.79	0.97
5:Q:89:ILE:CG2	5:Q:119:ALA:CA	2.42	0.97
2:B:766:ARG:HH22	2:B:1020:ARG:HH11	0.98	0.97
1:A:1448:ILE:HD13	7:G:70:PHE:CZ	1.98	0.97
7:G:89:ALA:HB1	7:G:102:ASP:C	1.83	0.97
6:F:103:MET:HE1	7:G:65:SER:CB	1.94	0.97
1:M:864:ILE:HG23	5:Q:175:PRO:HD3	1.46	0.97
1:M:345:ARG:N	2:N:1129:ARG:HG3	1.79	0.97
2:N:882:THR:HG1	2:N:934:LYS:N	1.61	0.97
7:S:138:THR:HG22	7:S:139:LYS:N	1.78	0.97
3:C:31:SER:O	3:C:35:THR:HG23	1.65	0.96
5:E:89:ILE:HG22	5:E:119:ALA:CA	1.94	0.96
11:K:43:ALA:CB	11:K:61:TYR:HE1	1.67	0.96
1:M:1447:MET:CE	6:R:135:ARG:HB2	1.93	0.96
1:M:848:ASP:HB3	1:M:1427:VAL:HG23	1.48	0.96
7:S:89:ALA:HB1	7:S:102:ASP:C	1.83	0.96
2:B:1159:ARG:NH1	2:B:1159:ARG:HB3	1.78	0.96
7:G:138:THR:HG22	7:G:139:LYS:N	1.78	0.96
1:A:1447:MET:CA	7:G:60:ARG:HA	1.95	0.96
2:N:1072:MET:HE3	2:N:1085:VAL:HB	1.47	0.96
6:R:86:THR:OG1	6:R:89:GLU:HG3	1.66	0.96
7:G:89:ALA:CB	7:G:102:ASP:O	2.14	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1063:GLY:HA2	1:M:1440:GLY:HA2	1.46	0.95
1:M:911:PRO:CA	1:M:917:ALA:HB1	1.93	0.95
11:W:43:ALA:CB	11:W:61:TYR:HE1	1.67	0.95
1:A:1107:LEU:HD22	1:A:1387:ILE:HG21	1.48	0.95
6:F:86:THR:OG1	6:F:89:GLU:HG3	1.66	0.95
1:M:1118:LEU:N	1:M:1311:THR:HG22	1.79	0.95
7:S:89:ALA:CB	7:S:102:ASP:O	2.14	0.95
7:S:34:VAL:HG12	7:S:45:ILE:HG21	1.48	0.95
1:A:1118:LEU:H	1:A:1311:THR:HG22	1.31	0.95
3:C:56:VAL:HG11	10:J:59:PHE:HB3	1.49	0.95
2:B:1114:LEU:HD11	2:B:1202:LEU:HD11	1.48	0.95
1:A:1447:MET:HG2	7:G:60:ARG:CA	1.86	0.95
1:M:346:VAL:HG13	2:N:1130:PHE:N	1.81	0.95
2:N:889:THR:O	2:N:910:ILE:CG2	2.15	0.95
3:O:65:ARG:NH2	10:V:5:VAL:HG23	1.82	0.95
3:C:65:ARG:NH2	10:J:5:VAL:HG23	1.81	0.94
1:M:1118:LEU:H	1:M:1311:THR:HG22	1.31	0.94
2:B:889:THR:O	2:B:910:ILE:CG2	2.14	0.94
1:A:1447:MET:CB	7:G:60:ARG:HA	1.98	0.94
1:M:1116:PRO:HB2	1:M:1314:ILE:HG23	1.49	0.94
1:M:344:LYS:C	2:N:1129:ARG:HG3	1.88	0.94
2:N:766:ARG:HH22	2:N:1020:ARG:HH11	0.98	0.94
1:A:320:GLY:HA2	2:B:464:LYS:HA	1.47	0.94
11:K:43:ALA:HB3	11:K:61:TYR:HE1	1.26	0.94
1:A:344:LYS:O	2:B:1130:PHE:N	2.00	0.93
1:A:1448:ILE:CD1	7:G:68:ALA:HB1	1.98	0.93
8:T:134:LEU:HD13	8:T:136:GLN:NE2	1.83	0.93
1:A:769:GLN:CD	1:A:817:HIS:HA	1.88	0.93
1:M:825:LEU:HD21	2:N:765:PRO:HB3	1.50	0.93
3:O:31:SER:O	3:O:35:THR:HG23	1.68	0.93
1:A:266:LYS:H	1:A:266:LYS:HD2	1.34	0.93
1:A:346:VAL:HG13	2:B:1130:PHE:HB2	1.49	0.93
2:B:890:TYR:HA	2:B:910:ILE:CG2	1.98	0.93
7:G:34:VAL:HG12	7:G:45:ILE:HG21	1.48	0.93
2:N:1149:GLU:O	2:N:1153:GLU:CB	2.14	0.93
7:S:138:THR:HG22	7:S:139:LYS:H	1.28	0.93
2:B:503:LYS:HG2	2:B:504:PRO:HD3	1.50	0.93
2:N:1163:CYS:HG	13:N:1301:ZN:ZN	0.61	0.93
1:A:1116:PRO:HB2	1:A:1314:ILE:HG23	1.51	0.93
1:A:568:LYS:HD2	1:A:569:PRO:HD2	1.51	0.93
8:H:134:LEU:HD13	8:H:136:GLN:NE2	1.83	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:63:ASN:HB3	10:V:64:PRO:CD	1.98	0.93
5:E:174:LEU:HD23	5:E:175:PRO:HD2	1.48	0.93
1:M:638:LYS:CB	1:M:642:ILE:CG1	2.47	0.93
1:A:864:ILE:HG23	5:E:175:PRO:HD3	1.50	0.93
2:N:890:TYR:HA	2:N:910:ILE:CG2	1.99	0.93
5:Q:89:ILE:HG21	5:Q:118:SER:C	1.89	0.93
3:O:56:VAL:HG11	10:V:59:PHE:HB3	1.49	0.92
1:A:336:ARG:HA	1:A:340:ASN:HD22	1.34	0.92
1:M:55:ASP:C	1:M:57:LYS:H	1.68	0.92
2:N:582:ILE:CG1	2:N:583:HIS:N	2.22	0.92
5:Q:174:LEU:HD23	5:Q:175:PRO:HD2	1.48	0.92
2:B:1065:GLN:HG3	2:B:1067:ARG:H	1.33	0.92
2:B:1116:ARG:HG3	2:B:1198:TYR:CE1	2.04	0.92
1:M:1449:ASP:HB2	6:R:133:VAL:CG2	1.99	0.92
2:N:352:GLU:O	2:N:355:PRO:HD3	1.69	0.92
2:N:1065:GLN:HG3	2:N:1067:ARG:H	1.33	0.92
1:M:266:LYS:H	1:M:266:LYS:HD2	1.34	0.92
3:O:164:ALA:HB2	3:O:171:SER:CB	2.00	0.92
1:A:55:ASP:C	1:A:57:LYS:H	1.68	0.92
1:A:710:THR:HB	1:A:713:GLU:HG3	1.52	0.92
7:G:89:ALA:CB	7:G:102:ASP:C	2.38	0.92
1:M:1107:LEU:HD22	1:M:1387:ILE:HG21	1.49	0.92
2:N:1217:TYR:CZ	4:P:14:ARG:CA	2.52	0.92
1:M:505:LEU:HD11	6:R:91:ALA:HB1	1.50	0.92
10:J:63:ASN:HB3	10:J:64:PRO:CD	1.98	0.92
7:S:89:ALA:CB	7:S:102:ASP:C	2.38	0.92
1:M:345:ARG:CA	2:N:1129:ARG:CB	2.48	0.91
2:N:503:LYS:HG2	2:N:504:PRO:HD3	1.50	0.91
4:D:82:GLY:HA2	4:D:85:ASP:CG	1.91	0.91
5:Q:89:ILE:HG21	5:Q:118:SER:CB	2.00	0.91
10:V:1:MET:HB2	10:V:55:LEU:HD12	1.50	0.91
2:B:1114:LEU:CD1	2:B:1202:LEU:HD11	2.01	0.91
1:A:988:ILE:CD1	1:A:1033:ILE:CG1	2.47	0.91
1:A:638:LYS:CB	1:A:642:ILE:CG1	2.48	0.91
2:B:352:GLU:O	2:B:355:PRO:HD3	1.69	0.91
5:E:89:ILE:HG21	5:E:118:SER:C	1.89	0.91
1:M:568:LYS:HD2	1:M:569:PRO:HD2	1.50	0.91
1:M:1441:THR:OG1	2:N:1142:GLY:O	1.87	0.91
3:C:164:ALA:HB2	3:C:171:SER:CB	2.00	0.91
5:E:83:ASP:O	5:E:85:PRO:HD3	1.68	0.91
11:K:49:GLU:HG3	11:K:94:ILE:HG12	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:810:GLU:HA	2:N:815:ARG:HH12	1.34	0.91
5:Q:83:ASP:O	5:Q:85:PRO:HD3	1.68	0.91
2:B:810:GLU:HA	2:B:815:ARG:HH12	1.34	0.90
5:E:146:HIS:HB3	5:E:149:VAL:HG23	1.53	0.90
1:M:336:ARG:HA	1:M:340:ASN:HD22	1.34	0.90
1:M:988:ILE:CD1	1:M:1033:ILE:CG1	2.47	0.90
2:N:941:LEU:HD21	2:N:946:ASN:HA	1.53	0.90
1:M:1441:THR:HG22	2:N:1144:ALA:HB3	1.51	0.90
2:N:270:GLN:HG2	2:N:271:ASP:H	1.37	0.90
2:N:865:ARG:CG	2:N:871:VAL:HG22	2.02	0.90
4:P:82:GLY:HA2	4:P:85:ASP:CG	1.91	0.90
5:E:120:ASN:O	5:E:123:ILE:HG23	1.70	0.89
2:B:12:ILE:CD1	2:B:647:ILE:CG1	2.50	0.89
10:J:1:MET:HB2	10:J:55:LEU:HD12	1.50	0.89
1:M:1441:THR:HG21	2:N:1144:ALA:HB3	1.51	0.89
5:Q:81:PHE:HA	5:Q:110:ILE:CG2	2.02	0.89
2:B:865:ARG:CG	2:B:871:VAL:HG22	2.02	0.89
5:E:81:PHE:HA	5:E:110:ILE:CG2	2.03	0.89
1:A:1006:ASN:ND2	5:E:166:ARG:HD2	1.87	0.89
2:B:514:LEU:HD22	2:B:626:VAL:HG12	1.55	0.89
2:N:509:ASN:HD22	2:N:509:ASN:N	1.70	0.89
1:A:266:LYS:N	1:A:266:LYS:HD2	1.88	0.89
1:M:1063:GLY:CA	1:M:1440:GLY:HA2	2.01	0.89
2:N:12:ILE:CD1	2:N:647:ILE:CG1	2.50	0.89
1:A:346:VAL:CG1	2:B:1130:PHE:HB2	2.03	0.89
2:B:556:MET:HE2	2:B:573:ILE:CG2	2.03	0.89
7:G:1:MET:HE3	7:G:80:LYS:O	1.71	0.89
10:J:63:ASN:HB3	10:J:64:PRO:HD3	1.54	0.89
1:M:1447:MET:HE1	6:R:135:ARG:CB	2.01	0.89
2:N:307:LYS:O	2:N:310:ILE:HG23	1.73	0.89
2:N:556:MET:HE2	2:N:573:ILE:CG2	2.01	0.89
3:C:74:GLU:HB3	3:C:128:ASN:HB3	1.55	0.88
1:M:266:LYS:N	1:M:266:LYS:HD2	1.88	0.88
1:M:345:ARG:C	2:N:1129:ARG:HA	1.93	0.88
1:A:739:LYS:H	1:A:739:LYS:HD2	1.39	0.88
1:A:902:LEU:H	1:A:927:GLN:HE21	1.22	0.88
5:E:89:ILE:HG21	5:E:118:SER:CB	2.01	0.88
1:M:986:PRO:O	1:M:990:HIS:HB2	1.74	0.88
2:B:941:LEU:HD21	2:B:946:ASN:HA	1.53	0.88
1:A:1447:MET:CA	7:G:59:GLY:O	2.21	0.88
2:B:270:GLN:HG2	2:B:271:ASP:H	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:638:LYS:HB3	1:M:642:ILE:CG1	2.03	0.88
6:F:132:LEU:CD2	7:G:61:ILE:HD12	2.03	0.88
1:A:1448:ILE:HG21	7:G:18:PHE:HE2	0.78	0.88
2:N:957:ASN:HD22	2:N:961:LEU:HD12	1.39	0.88
1:A:504:GLN:NE2	6:F:90:ARG:HH21	1.71	0.88
1:A:1448:ILE:CG1	7:G:68:ALA:HB2	2.03	0.88
10:J:1:MET:N	10:J:55:LEU:H	1.72	0.88
1:M:710:THR:HB	1:M:713:GLU:HG3	1.52	0.88
1:M:739:LYS:H	1:M:739:LYS:HD2	1.38	0.88
1:M:769:GLN:HG3	1:M:817:HIS:HA	1.52	0.88
5:Q:146:HIS:HB3	5:Q:149:VAL:HG23	1.54	0.88
7:S:138:THR:CG2	7:S:139:LYS:H	1.87	0.88
1:M:1006:ASN:ND2	5:Q:166:ARG:HD2	1.87	0.88
5:Q:152:HIS:O	5:Q:153:ILE:HG13	1.74	0.88
1:M:343:GLY:C	2:N:1129:ARG:NH2	2.27	0.88
2:B:806:THR:HG22	2:B:808:ALA:H	1.38	0.88
1:A:1397:THR:CG2	1:A:1401:MET:SD	2.62	0.87
1:A:1450:GLU:OE2	7:G:23:ASN:N	2.06	0.87
2:N:1181:GLU:HA	2:N:1187:ASN:O	1.74	0.87
1:A:986:PRO:O	1:A:990:HIS:HB2	1.74	0.87
1:M:1339:LEU:HB2	1:M:1347:THR:CB	2.04	0.87
10:V:63:ASN:HB3	10:V:64:PRO:HD3	1.54	0.87
3:O:74:GLU:HB3	3:O:128:ASN:HB3	1.55	0.87
10:V:1:MET:N	10:V:55:LEU:H	1.72	0.87
1:A:776:ILE:HG23	1:A:819:MET:CE	2.04	0.87
2:B:1181:GLU:HA	2:B:1187:ASN:O	1.75	0.87
1:M:1351:LEU:O	1:M:1355:ILE:HG22	1.75	0.87
2:N:519:GLU:OE2	2:N:752:ALA:HB2	1.74	0.87
1:A:1339:LEU:HB2	1:A:1347:THR:CB	2.04	0.87
1:A:799:GLY:HA2	1:A:816:PHE:HD1	1.26	0.87
2:N:806:THR:HG22	2:N:808:ALA:H	1.38	0.87
5:Q:89:ILE:HG21	5:Q:118:SER:HB2	1.54	0.87
11:W:49:GLU:HG3	11:W:94:ILE:HG12	1.53	0.87
2:B:821:GLN:HE22	2:B:851:PHE:H	1.21	0.87
6:F:132:LEU:HD22	7:G:61:ILE:HD12	1.55	0.87
1:M:496:GLU:HB3	6:R:99:LEU:CB	2.04	0.87
2:B:1180:PHE:HB3	2:B:1191:ILE:HD13	1.57	0.87
5:E:152:HIS:O	5:E:153:ILE:HG13	1.73	0.87
1:A:1447:MET:HA	7:G:60:ARG:HA	1.54	0.86
1:A:447:ARG:HB2	1:A:488:MET:SD	2.15	0.86
3:O:30:ASN:O	3:O:33:ARG:HB3	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:LYS:HB3	1:A:642:ILE:CG1	2.05	0.86
1:M:246:GLN:O	2:N:1114:LEU:HD13	1.72	0.86
2:B:766:ARG:NH2	2:B:1020:ARG:HH11	1.74	0.86
2:B:519:GLU:OE2	2:B:752:ALA:HB2	1.75	0.86
3:C:42:THR:HG22	3:C:43:LEU:N	1.90	0.86
6:F:100:GLN:HE21	7:G:66:GLY:CA	1.88	0.86
1:A:801:VAL:CG1	1:A:809:LEU:HG	2.06	0.86
6:F:132:LEU:HD22	7:G:61:ILE:CD1	2.05	0.86
1:M:447:ARG:HB2	1:M:488:MET:SD	2.15	0.86
1:M:496:GLU:HB3	6:R:99:LEU:HB3	1.55	0.86
2:B:509:ASN:N	2:B:509:ASN:HD22	1.70	0.86
3:C:30:ASN:O	3:C:33:ARG:HB3	1.75	0.86
2:N:514:LEU:HD22	2:N:626:VAL:HG12	1.55	0.86
1:M:902:LEU:H	1:M:927:GLN:HE21	1.22	0.86
1:A:380:THR:OG1	6:F:102:SER:O	1.93	0.86
2:N:158:ILE:HG22	2:N:446:ILE:HD12	1.56	0.86
1:A:1447:MET:CG	7:G:60:ARG:HB3	2.06	0.86
7:G:138:THR:CG2	7:G:139:LYS:H	1.87	0.86
1:A:780:PHE:CE1	1:A:786:PRO:HD3	2.11	0.85
2:B:1095:LEU:HD12	2:B:1095:LEU:H	1.39	0.85
2:B:957:ASN:HD22	2:B:961:LEU:HD12	1.39	0.85
2:N:1095:LEU:HD12	2:N:1095:LEU:H	1.39	0.85
7:S:1:MET:HE3	7:S:80:LYS:O	1.76	0.85
1:M:75:ALA:HA	2:N:1116:ARG:CZ	2.05	0.85
3:C:138:TYR:O	3:C:139:ASP:CB	2.25	0.85
7:G:80:LYS:HG2	7:G:80:LYS:O	1.76	0.85
11:K:21:ILE:HG12	11:K:33:ILE:HG12	1.58	0.85
2:B:158:ILE:HG22	2:B:446:ILE:HD12	1.56	0.85
3:C:9:ILE:HD11	11:K:108:GLU:HB3	1.58	0.85
1:M:342:MET:O	2:N:1132:GLU:CG	2.25	0.85
1:M:346:VAL:HG13	2:N:1130:PHE:HB2	1.44	0.85
3:O:42:THR:HG22	3:O:43:LEU:N	1.90	0.85
2:B:1207:LEU:HB3	2:B:1212:ILE:HG22	1.57	0.85
5:E:81:PHE:HA	5:E:110:ILE:HG23	1.58	0.85
2:B:766:ARG:HH22	2:B:1020:ARG:NH1	1.75	0.85
2:N:821:GLN:HE22	2:N:851:PHE:H	1.21	0.85
2:B:755:ILE:HA	2:B:809:MET:HE2	1.58	0.85
1:M:1388:THR:HG23	1:M:1390:HIS:H	1.41	0.85
2:N:766:ARG:HH22	2:N:1020:ARG:NH1	1.75	0.85
1:A:69:THR:C	1:A:71:GLY:H	1.78	0.85
1:A:1327:SER:HB2	5:E:141:VAL:HG11	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:92:TYR:HB3	8:H:143:ILE:O	1.77	0.85
1:A:638:LYS:HB2	1:A:642:ILE:CG1	2.07	0.84
5:E:89:ILE:HG21	5:E:118:SER:HB2	1.56	0.84
2:N:766:ARG:NH2	2:N:1020:ARG:HH11	1.74	0.84
3:O:5:PRO:HB3	3:O:24:VAL:HG12	1.58	0.84
1:A:1448:ILE:HG12	7:G:68:ALA:CB	2.06	0.84
1:M:780:PHE:CE1	1:M:786:PRO:HD3	2.11	0.84
11:W:21:ILE:HG12	11:W:33:ILE:HG12	1.58	0.84
3:C:5:PRO:HB3	3:C:24:VAL:HG12	1.58	0.84
1:M:1441:THR:CG2	2:N:1144:ALA:CB	2.55	0.84
1:A:493:PRO:HB3	1:A:502:LEU:HD12	1.59	0.84
1:A:801:VAL:HG13	1:A:809:LEU:HG	1.58	0.84
1:M:983:LEU:HD21	1:M:1041:ARG:HA	1.58	0.84
2:N:1180:PHE:HB3	2:N:1191:ILE:HD13	1.57	0.84
2:B:206:GLN:HE22	2:B:492:ASN:HB3	1.41	0.84
1:M:776:ILE:HG23	1:M:819:MET:CE	2.08	0.84
2:N:1207:LEU:HB3	2:N:1212:ILE:HG22	1.57	0.84
3:O:9:ILE:HD11	11:W:108:GLU:HB3	1.58	0.84
1:A:1388:THR:HG23	1:A:1390:HIS:H	1.42	0.84
9:I:95:THR:HG22	9:I:96:ASN:H	1.43	0.84
1:M:69:THR:C	1:M:71:GLY:H	1.78	0.84
2:N:755:ILE:HA	2:N:809:MET:HE2	1.59	0.84
5:Q:89:ILE:CG2	5:Q:119:ALA:HA	2.05	0.84
1:M:1327:SER:HB2	5:Q:141:VAL:HG11	1.59	0.84
1:A:900:VAL:HB	1:A:930:LEU:HD11	1.59	0.84
2:B:801:LYS:O	10:J:51:THR:HG23	1.78	0.84
1:A:983:LEU:HD21	1:A:1041:ARG:HA	1.58	0.83
3:C:175:ALA:CB	10:J:42:ARG:HH22	1.91	0.83
1:M:764:ALA:O	1:M:804:SER:HB3	1.78	0.83
3:O:175:ALA:CB	10:V:42:ARG:HH22	1.90	0.83
5:Q:89:ILE:CG2	5:Q:118:SER:HB2	2.08	0.83
1:A:1447:MET:HG3	7:G:60:ARG:HB2	1.59	0.83
3:O:138:TYR:O	3:O:139:ASP:CB	2.25	0.83
1:A:1354:GLU:O	1:A:1358:VAL:HG23	1.78	0.83
1:A:564:PRO:HG3	1:A:573:TRP:CZ2	2.12	0.83
2:N:249:LEU:HB2	2:N:378:LEU:HD21	1.60	0.83
8:T:92:TYR:HB3	8:T:143:ILE:O	1.78	0.83
11:W:43:ALA:HB1	11:W:61:TYR:HD1	1.38	0.83
2:N:1114:LEU:O	2:N:1198:TYR:CZ	2.31	0.83
2:B:476:LEU:HD11	2:B:484:THR:HG23	1.61	0.83
1:M:1244:VAL:O	1:M:1245:ILE:CG1	2.27	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1354:GLU:O	1:M:1358:VAL:HG23	1.78	0.83
1:M:564:PRO:HG3	1:M:573:TRP:CZ2	2.12	0.83
1:M:900:VAL:HB	1:M:930:LEU:HD11	1.59	0.83
1:M:51:GLY:O	1:M:56:PRO:HB3	1.78	0.83
2:N:287:GLY:H	2:N:290:LEU:HD23	1.43	0.83
1:A:1244:VAL:O	1:A:1245:ILE:CG1	2.27	0.83
1:M:1441:THR:HG22	2:N:1144:ALA:CB	2.08	0.83
1:M:568:LYS:HB3	8:T:94:TYR:HA	1.61	0.83
1:A:51:GLY:O	1:A:56:PRO:HB3	1.78	0.83
1:M:1389:ARG:CB	1:M:1406:GLU:OE1	2.27	0.83
1:M:638:LYS:HB2	1:M:642:ILE:CG1	2.07	0.83
2:N:206:GLN:HE22	2:N:492:ASN:HB3	1.41	0.83
2:N:476:LEU:HD11	2:N:484:THR:HG23	1.61	0.83
9:I:34:TYR:CD2	9:I:35:THR:N	2.44	0.83
11:K:43:ALA:HB1	11:K:61:TYR:HD1	1.38	0.83
1:M:493:PRO:HB3	1:M:502:LEU:HD12	1.59	0.83
1:M:346:VAL:HG11	2:N:1130:PHE:HB2	1.05	0.83
1:A:799:GLY:HA2	1:A:816:PHE:CG	2.14	0.83
2:B:567:HIS:HA	2:B:584:ARG:HH22	1.44	0.83
7:S:80:LYS:HG2	7:S:80:LYS:O	1.76	0.83
2:N:801:LYS:O	10:V:51:THR:HG23	1.78	0.83
1:A:568:LYS:CD	1:A:569:PRO:HD2	2.09	0.82
3:C:257:ASN:HA	3:C:260:PHE:HB3	1.60	0.82
4:P:41:HIS:HB2	7:S:73:LYS:NZ	1.94	0.82
9:U:34:TYR:CD2	9:U:35:THR:N	2.44	0.82
6:F:103:MET:CE	7:G:65:SER:CB	2.52	0.82
1:A:354:ILE:HG21	1:A:488:MET:HG3	1.61	0.82
1:A:764:ALA:O	1:A:804:SER:HB3	1.78	0.82
1:M:354:ILE:HG21	1:M:488:MET:HG3	1.61	0.82
2:B:1115:THR:O	2:B:1198:TYR:CD2	2.33	0.82
1:M:1013:GLN:O	1:M:1017:THR:CG2	2.28	0.82
1:M:1448:ILE:CG2	7:S:61:ILE:CD1	2.48	0.82
2:N:1065:GLN:HB2	3:O:201:TRP:CZ3	2.15	0.82
5:E:89:ILE:CG2	5:E:119:ALA:HA	2.04	0.82
8:H:40:LEU:HD22	8:H:122:MET:HE3	1.61	0.82
1:M:1373:LEU:O	1:M:1377:VAL:HG23	1.80	0.82
1:M:346:VAL:N	2:N:1129:ARG:HA	1.94	0.82
2:B:1065:GLN:HB2	3:C:201:TRP:CZ3	2.15	0.82
3:C:97:VAL:O	3:C:98:LEU:HD23	1.79	0.82
4:D:41:HIS:HB2	7:G:73:LYS:NZ	1.94	0.82
1:A:246:GLN:O	2:B:1114:LEU:CD1	2.28	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:345:ARG:HA	2:N:1129:ARG:HA	0.87	0.82
1:M:568:LYS:CD	1:M:569:PRO:HD2	2.09	0.82
4:P:105:THR:O	4:P:109:LEU:HB2	1.80	0.82
2:B:1072:MET:HE3	2:B:1085:VAL:HB	1.61	0.82
2:B:942:ARG:HB2	2:B:945:GLU:HG3	1.62	0.82
1:M:1241:ARG:HH22	1:M:1243:ARG:HH22	1.26	0.82
1:M:1389:ARG:HG3	1:M:1406:GLU:CB	2.10	0.82
2:N:1149:GLU:CA	2:N:1153:GLU:OE1	2.23	0.82
1:A:240:LEU:HD12	1:A:241:PRO:HD2	1.61	0.82
6:F:103:MET:HE2	7:G:65:SER:HA	1.61	0.82
9:U:95:THR:HG22	9:U:96:ASN:H	1.43	0.82
2:B:1223:VAL:O	2:B:1224:SER:HB2	1.79	0.81
4:D:105:THR:O	4:D:109:LEU:HB2	1.80	0.81
2:B:249:LEU:HB2	2:B:378:LEU:HD21	1.60	0.81
2:B:287:GLY:H	2:B:290:LEU:HD23	1.43	0.81
2:B:899:ILE:HD11	2:B:911:ILE:HG23	1.62	0.81
5:E:89:ILE:CG2	5:E:118:SER:HB2	2.09	0.81
2:N:394:PHE:CD2	2:N:514:LEU:HD12	2.15	0.81
1:A:568:LYS:HB3	8:H:94:TYR:HA	1.61	0.81
1:M:1397:THR:HG22	1:M:1401:MET:SD	2.20	0.81
1:M:240:LEU:HD12	1:M:241:PRO:HD2	1.62	0.81
8:T:40:LEU:HD22	8:T:122:MET:HE3	1.61	0.81
2:B:52:GLU:HG3	2:B:53:GLU:H	1.46	0.81
7:G:127:PRO:HG2	7:G:138:THR:HG21	1.63	0.81
10:J:42:ARG:H	10:J:42:ARG:HD3	1.45	0.81
7:S:127:PRO:HG2	7:S:138:THR:HG21	1.63	0.81
9:U:14:LEU:HD12	9:U:27:TYR:HB3	1.63	0.81
10:V:42:ARG:H	10:V:42:ARG:HD3	1.45	0.81
1:M:345:ARG:CA	2:N:1129:ARG:CA	2.21	0.81
2:N:52:GLU:HG3	2:N:53:GLU:H	1.46	0.81
2:N:567:HIS:HA	2:N:584:ARG:HH22	1.44	0.81
2:N:1217:TYR:OH	4:P:13:ARG:O	1.99	0.81
1:A:1373:LEU:O	1:A:1377:VAL:HG23	1.80	0.81
3:C:100:LEU:HD13	3:C:118:LEU:HD23	1.62	0.81
3:O:257:ASN:HA	3:O:260:PHE:HB3	1.60	0.81
12:X:51:LYS:O	12:X:52:GLU:HB2	1.81	0.81
2:B:556:MET:HE1	2:B:573:ILE:CG2	1.74	0.81
1:M:14:VAL:HG21	2:N:1216:LEU:HD12	1.63	0.81
3:O:100:LEU:HD13	3:O:118:LEU:HD23	1.62	0.81
3:O:244:PHE:O	3:O:248:ILE:HG13	1.81	0.81
3:O:97:VAL:O	3:O:98:LEU:HD23	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:710:THR:HG22	1:A:712:ARG:H	1.46	0.81
2:N:387:ASP:OD1	9:U:91:ARG:HG3	1.81	0.81
2:B:206:GLN:NE2	2:B:492:ASN:HB3	1.96	0.80
2:N:899:ILE:HD11	2:N:911:ILE:HG23	1.62	0.80
10:V:16:ASP:OD1	10:V:17:LYS:HD2	1.81	0.80
1:A:568:LYS:HB3	8:H:95:VAL:H	1.46	0.80
2:B:371:LEU:O	2:B:375:VAL:HG23	1.81	0.80
9:I:14:LEU:HD12	9:I:27:TYR:HB3	1.62	0.80
2:N:1223:VAL:O	2:N:1224:SER:HB2	1.79	0.80
7:S:89:ALA:HB2	7:S:103:VAL:HA	1.64	0.80
1:A:1221:VAL:HG11	1:A:1274:ILE:HD11	1.62	0.80
1:A:568:LYS:HB2	1:A:569:PRO:CD	2.11	0.80
1:M:1116:PRO:HB2	1:M:1314:ILE:CG2	2.11	0.80
2:N:371:LEU:O	2:N:375:VAL:HG23	1.81	0.80
1:A:801:VAL:HA	1:A:813:GLU:HG2	1.63	0.80
1:M:1221:VAL:HG11	1:M:1274:ILE:HD11	1.62	0.80
1:M:1191:SER:O	1:M:1243:ARG:HD3	1.80	0.80
1:A:1013:GLN:O	1:A:1017:THR:CG2	2.28	0.80
1:A:1191:SER:O	1:A:1243:ARG:HD3	1.80	0.80
1:A:37:TYR:HB2	1:A:52:GLY:HA3	1.63	0.80
1:M:568:LYS:HB2	1:M:569:PRO:CD	2.11	0.80
5:Q:134:PHE:HB3	5:Q:139:LEU:HD11	1.64	0.80
2:B:1129:ARG:HG2	2:B:1131:GLY:H	1.47	0.80
2:N:1129:ARG:HG2	2:N:1131:GLY:H	1.47	0.80
1:A:1241:ARG:HH22	1:A:1243:ARG:HH22	1.26	0.80
1:A:447:ARG:HD2	1:A:481:ALA:HB2	1.62	0.80
12:L:51:LYS:O	12:L:52:GLU:HB2	1.81	0.80
6:R:109:VAL:HG12	6:R:110:ASP:N	1.96	0.80
9:U:75:CYS:HG	9:U:78:CYS:HG	1.26	0.80
1:A:320:GLY:CA	2:B:464:LYS:HA	2.12	0.80
1:A:606:MET:HE3	1:A:607:LEU:H	1.46	0.80
2:B:1004:GLU:HB2	2:B:1006:ILE:HG12	1.64	0.80
3:C:244:PHE:O	3:C:248:ILE:HG13	1.81	0.80
1:M:344:LYS:O	2:N:1130:PHE:N	2.14	0.80
1:M:37:TYR:HB2	1:M:52:GLY:HA3	1.63	0.80
1:M:41:MET:HB3	1:M:49:ARG:CA	2.12	0.80
2:N:942:ARG:HB2	2:N:945:GLU:HG3	1.62	0.80
1:A:61:ILE:HG22	1:A:62:ASP:H	1.47	0.80
1:A:14:VAL:HG21	2:B:1216:LEU:HD12	1.63	0.80
2:N:325:PHE:O	2:N:326:ILE:HG13	1.82	0.80
3:C:104:HIS:CB	3:C:148:ARG:O	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:893:LEU:HD11	2:B:910:ILE:CG1	2.12	0.79
10:J:16:ASP:OD1	10:J:17:LYS:HD2	1.81	0.79
2:B:852:ARG:HH22	12:L:72:THR:C	1.86	0.79
1:M:1448:ILE:HG13	7:S:61:ILE:HG13	1.63	0.79
2:N:1004:GLU:HB2	2:N:1006:ILE:HG12	1.64	0.79
1:M:568:LYS:HB3	8:T:95:VAL:N	1.97	0.79
1:A:529:LEU:O	1:A:532:VAL:HG12	1.82	0.79
6:F:109:VAL:HG12	6:F:110:ASP:N	1.96	0.79
8:H:134:LEU:HD13	8:H:136:GLN:HE21	1.47	0.79
3:O:104:HIS:CB	3:O:148:ARG:O	2.30	0.79
2:N:800:GLN:HG2	10:V:51:THR:HG22	1.64	0.79
5:E:134:PHE:HB3	5:E:139:LEU:HD11	1.64	0.79
1:M:447:ARG:HD2	1:M:481:ALA:HB2	1.62	0.79
1:M:769:GLN:HG3	1:M:817:HIS:CA	2.12	0.79
1:M:75:ALA:HA	2:N:1116:ARG:HH22	1.45	0.79
8:H:14:THR:O	8:H:26:ILE:HG23	1.83	0.79
1:M:771:VAL:HA	1:M:823:GLU:OE1	1.83	0.79
2:N:206:GLN:NE2	2:N:492:ASN:HB3	1.96	0.79
1:A:568:LYS:CG	1:A:569:PRO:HD2	2.13	0.79
1:A:838:ILE:HA	1:A:841:ARG:HD3	1.64	0.79
2:B:575:VAL:HG22	2:B:619:ILE:HG21	1.64	0.79
4:P:49:ILE:HG21	7:S:4:LEU:HB2	1.65	0.79
1:A:41:MET:HB3	1:A:49:ARG:CA	2.12	0.79
2:N:852:ARG:HH22	12:X:72:THR:C	1.85	0.79
8:T:134:LEU:HD13	8:T:136:GLN:HE21	1.47	0.79
8:T:14:THR:O	8:T:26:ILE:HG23	1.83	0.79
1:M:86:LEU:HD21	1:M:240:LEU:HB2	1.64	0.79
2:N:596:LEU:HD13	2:N:601:ALA:HB3	1.63	0.79
2:N:846:ILE:HG23	2:N:974:PRO:HG2	1.65	0.79
1:A:568:LYS:CB	8:H:94:TYR:HA	2.13	0.79
2:B:846:ILE:HG23	2:B:974:PRO:HG2	1.65	0.79
1:M:529:LEU:O	1:M:532:VAL:HG12	1.82	0.79
1:M:568:LYS:HB3	8:T:95:VAL:H	1.46	0.79
2:B:778:MET:CE	2:B:1094:ARG:HD3	2.13	0.78
1:M:568:LYS:CB	8:T:94:TYR:HA	2.13	0.78
2:N:1207:LEU:HB3	2:N:1212:ILE:CG2	2.13	0.78
5:Q:81:PHE:HA	5:Q:110:ILE:HG23	1.65	0.78
1:A:1447:MET:CB	7:G:59:GLY:C	2.41	0.78
1:M:568:LYS:CG	1:M:569:PRO:HD2	2.12	0.78
1:M:61:ILE:HG22	1:M:62:ASP:H	1.48	0.78
3:O:65:ARG:NH1	10:V:2:ILE:HG21	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:55:ASP:CG	1:A:55:ASP:O	2.20	0.78
2:B:325:PHE:O	2:B:326:ILE:HG13	1.82	0.78
2:B:596:LEU:HD13	2:B:601:ALA:HB3	1.63	0.78
3:C:47:LEU:CB	3:C:158:ILE:CG2	2.54	0.78
5:E:25:ARG:HH22	5:E:132:GLU:CD	1.87	0.78
7:G:111:SER:HB2	7:G:114:LEU:HD13	1.65	0.78
1:M:346:VAL:CB	2:N:1130:PHE:HB2	2.14	0.78
2:N:514:LEU:HB3	2:N:626:VAL:HG11	1.66	0.78
2:B:514:LEU:HB3	2:B:626:VAL:HG11	1.65	0.78
1:M:710:THR:HG22	1:M:712:ARG:H	1.46	0.78
1:M:1136:ILE:HG22	1:M:1140:ILE:HD11	1.66	0.78
7:S:111:SER:HB2	7:S:114:LEU:HD13	1.65	0.78
1:A:333:LYS:O	1:A:334:GLU:HB2	1.83	0.78
7:G:89:ALA:HB2	7:G:103:VAL:HA	1.64	0.78
1:M:342:MET:CE	1:M:844:LYS:HZ3	1.92	0.78
1:M:345:ARG:HA	2:N:1129:ARG:CG	2.14	0.78
3:O:44:ALA:HA	3:O:71:LEU:HD12	1.66	0.78
1:A:86:LEU:HD21	1:A:240:LEU:HB2	1.64	0.78
2:B:800:GLN:HG2	10:J:51:THR:HG22	1.64	0.78
2:B:843:GLN:HA	2:B:846:ILE:HD12	1.66	0.78
1:M:373:LYS:HA	1:M:436:HIS:ND1	1.99	0.78
1:M:769:GLN:CG	1:M:817:HIS:HA	2.14	0.78
2:N:575:VAL:HG22	2:N:619:ILE:HG21	1.64	0.78
2:N:893:LEU:HD11	2:N:910:ILE:CG1	2.13	0.78
1:A:1448:ILE:HG12	7:G:68:ALA:HB2	1.61	0.78
2:N:758:PHE:HB2	2:N:1024:ALA:HB1	1.64	0.78
1:A:538:ARG:HH22	8:H:121:LEU:HD12	1.48	0.78
1:M:985:ILE:O	1:M:989:ILE:HG23	1.82	0.78
2:N:778:MET:CE	2:N:1094:ARG:HD3	2.13	0.78
1:A:1116:PRO:HB2	1:A:1314:ILE:CG2	2.14	0.77
1:A:809:LEU:HD23	1:A:814:PHE:HA	1.66	0.77
2:B:33:GLN:HG3	2:B:34:GLN:H	1.50	0.77
2:B:357:ILE:O	2:B:358:THR:HB	1.83	0.77
3:C:65:ARG:NH1	10:J:2:ILE:HG21	1.98	0.77
4:P:140:PHE:HZ	7:S:85:GLU:HG3	1.49	0.77
1:A:373:LYS:HA	1:A:436:HIS:ND1	1.99	0.77
1:A:985:ILE:O	1:A:989:ILE:HG23	1.82	0.77
1:M:684:ILE:HD13	1:M:802:GLU:HG3	1.65	0.77
1:A:568:LYS:HB3	8:H:95:VAL:N	1.97	0.77
1:M:766:VAL:HG23	1:M:803:ASN:O	1.84	0.77
2:N:1114:LEU:O	2:N:1198:TYR:CE2	2.38	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:890:TYR:CG	2:N:910:ILE:HG21	2.20	0.77
3:O:99:GLU:CG	3:O:121:VAL:CG2	2.62	0.77
1:A:1136:ILE:HG22	1:A:1140:ILE:HD11	1.66	0.77
1:A:1163:THR:HG22	1:A:1165:ILE:H	1.50	0.77
2:B:1207:LEU:HB3	2:B:1212:ILE:CG2	2.13	0.77
1:M:1389:ARG:HG3	1:M:1406:GLU:HB2	1.63	0.77
1:M:400:HIS:HB3	1:M:401:PRO:HD3	1.67	0.77
1:M:838:ILE:HA	1:M:841:ARG:HD3	1.65	0.77
1:A:597:SER:O	1:A:599:LEU:N	2.17	0.77
5:E:28:PHE:O	5:E:29:ILE:HG13	1.84	0.77
1:A:1155:TYR:HB2	1:A:1194:LEU:HD23	1.67	0.77
1:A:400:HIS:HB3	1:A:401:PRO:HD3	1.67	0.77
1:A:766:VAL:HG23	1:A:803:ASN:O	1.84	0.77
2:B:758:PHE:HB2	2:B:1024:ALA:HB1	1.64	0.77
1:M:342:MET:O	2:N:1132:GLU:HG3	1.83	0.77
1:A:24:PRO:O	1:A:27:ILE:HG23	1.84	0.77
1:M:1074:ILE:HD11	1:M:1371:MET:HA	1.66	0.77
1:M:1352:TYR:O	1:M:1355:ILE:HG23	1.85	0.77
2:N:491:THR:HG22	2:N:530:LYS:H	1.49	0.77
1:A:902:LEU:HB2	1:A:927:GLN:HG2	1.66	0.77
2:B:701:ALA:HB2	2:B:738:PHE:CD2	2.19	0.77
2:B:899:ILE:HG22	2:B:903:VAL:HG21	1.66	0.77
7:G:45:ILE:HA	7:G:78:VAL:HG12	1.66	0.77
7:G:88:ASP:HB3	7:G:144:ARG:CA	2.15	0.77
2:N:357:ILE:O	2:N:358:THR:HB	1.83	0.77
1:M:815:PHE:CD1	2:N:512:TRP:CE3	2.72	0.77
2:N:701:ALA:HB2	2:N:738:PHE:CD2	2.19	0.77
2:N:843:GLN:HA	2:N:846:ILE:HD12	1.66	0.77
5:Q:25:ARG:HH22	5:Q:132:GLU:CD	1.87	0.77
2:B:797:TYR:C	2:B:798:TYR:HD2	1.87	0.77
4:D:49:ILE:HG21	7:G:4:LEU:HB2	1.65	0.77
1:M:809:LEU:HD23	1:M:814:PHE:HA	1.66	0.77
11:W:47:ARG:HD3	11:W:59:VAL:O	1.85	0.77
1:A:1074:ILE:HD11	1:A:1371:MET:HA	1.66	0.77
3:C:99:GLU:CG	3:C:121:VAL:CG2	2.62	0.77
1:M:333:LYS:O	1:M:334:GLU:HB2	1.84	0.77
1:M:41:MET:HA	1:M:50:GLU:H	1.50	0.77
1:M:710:THR:HG21	9:U:93:LYS:O	1.85	0.77
1:A:58:LEU:HD22	1:A:80:HIS:O	1.85	0.76
1:A:822:ARG:HH11	1:A:822:ARG:HB2	1.49	0.76
1:A:900:VAL:HG22	1:A:1031:ARG:HG2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:99:THR:HG23	8:H:137:ASP:HA	1.67	0.76
11:K:47:ARG:HD3	11:K:59:VAL:O	1.85	0.76
1:M:597:SER:O	1:M:599:LEU:N	2.18	0.76
1:M:822:ARG:HB2	1:M:822:ARG:HH11	1.48	0.76
3:O:236:GLY:O	3:O:238:LEU:N	2.19	0.76
5:Q:28:PHE:O	5:Q:29:ILE:HG13	1.84	0.76
2:B:890:TYR:CG	2:B:910:ILE:HG21	2.20	0.76
3:C:236:GLY:O	3:C:238:LEU:N	2.19	0.76
5:Q:123:ILE:CG1	5:Q:124:PRO:N	2.46	0.76
7:S:89:ALA:HB2	7:S:103:VAL:HG22	1.67	0.76
7:S:45:ILE:HA	7:S:78:VAL:HG12	1.66	0.76
1:M:538:ARG:HH22	8:T:121:LEU:HD12	1.48	0.76
2:N:387:ASP:OD1	9:U:91:ARG:CG	2.33	0.76
1:A:1448:ILE:CG1	7:G:68:ALA:HB1	2.13	0.76
1:A:684:ILE:HD13	1:A:802:GLU:HG3	1.65	0.76
1:A:989:ILE:CG1	1:A:990:HIS:N	2.49	0.76
2:N:1117:GLN:HG3	2:N:1156:ASP:OD1	1.85	0.76
2:N:797:TYR:C	2:N:798:TYR:HD2	1.87	0.76
1:A:1449:ASP:HB3	1:A:1452:LEU:CG	2.16	0.76
2:B:491:THR:HG22	2:B:530:LYS:H	1.49	0.76
8:H:63:LEU:C	8:H:89:ALA:HB3	2.05	0.76
10:J:47:ARG:HE	10:J:48:MET:HE2	1.49	0.76
1:M:1155:TYR:HB2	1:M:1194:LEU:HD23	1.67	0.76
1:M:309:ILE:HG22	1:M:310:ALA:H	1.50	0.76
1:M:58:LEU:HD22	1:M:80:HIS:O	1.85	0.76
1:M:815:PHE:CD1	2:N:512:TRP:HE3	2.03	0.76
1:M:344:LYS:HA	2:N:1129:ARG:NH1	2.00	0.76
1:A:41:MET:HA	1:A:50:GLU:H	1.50	0.76
2:B:279:ARG:HG2	2:B:284:VAL:HA	1.67	0.76
1:M:24:PRO:O	1:M:27:ILE:HG23	1.85	0.76
1:M:342:MET:CE	1:M:844:LYS:HZ2	1.99	0.76
1:A:769:GLN:HG3	1:A:817:HIS:CA	2.16	0.76
1:A:1447:MET:HG2	7:G:59:GLY:C	2.04	0.76
2:N:287:GLY:N	2:N:290:LEU:HD23	1.99	0.76
2:N:1221:SER:HB2	4:P:12:ARG:CB	2.12	0.76
3:C:165:LYS:O	11:K:6:ARG:NH1	2.19	0.76
2:N:1094:ARG:HH21	2:N:1098:MET:HG2	1.51	0.76
3:O:104:HIS:CB	3:O:149:ASN:O	2.34	0.76
1:A:383:GLN:HB3	1:A:429:TYR:HE2	1.50	0.76
2:B:12:ILE:HD11	2:B:647:ILE:CG1	2.16	0.76
3:C:104:HIS:CB	3:C:149:ASN:O	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:116:THR:HG22	5:E:118:SER:H	1.51	0.76
1:M:1449:ASP:HB3	1:M:1452:LEU:CG	2.16	0.76
1:M:35:ILE:HG22	1:M:35:ILE:O	1.86	0.76
1:M:902:LEU:HB2	1:M:927:GLN:HG2	1.67	0.76
8:T:63:LEU:C	8:T:89:ALA:HB3	2.05	0.76
1:A:495:SER:O	1:A:499:ARG:HG3	1.86	0.76
2:B:287:GLY:N	2:B:290:LEU:HD23	1.99	0.76
1:M:383:GLN:HB3	1:M:429:TYR:HE2	1.51	0.76
1:M:53:LEU:CD2	1:M:54:ASN:H	1.97	0.76
1:M:801:VAL:HG13	1:M:809:LEU:HG	1.68	0.76
8:T:99:THR:HG23	8:T:137:ASP:HA	1.68	0.76
2:B:24:PHE:HE1	2:B:28:LYS:HG3	1.51	0.76
2:B:484:THR:O	2:B:488:LEU:HD12	1.86	0.76
1:M:303:THR:HG22	1:M:304:TYR:N	2.01	0.76
11:W:43:ALA:CB	11:W:61:TYR:CD1	2.47	0.76
1:A:483:PHE:O	2:B:989:THR:HG23	1.86	0.75
1:M:606:MET:HE3	1:M:607:LEU:H	1.50	0.75
1:M:989:ILE:CG1	1:M:990:HIS:N	2.49	0.75
1:A:303:THR:HG22	1:A:304:TYR:N	2.01	0.75
1:A:444:LEU:HD23	1:A:502:LEU:HD21	1.68	0.75
1:A:53:LEU:CD2	1:A:54:ASN:H	1.97	0.75
2:B:1094:ARG:HH21	2:B:1098:MET:HG2	1.50	0.75
2:N:33:GLN:HG3	2:N:34:GLN:H	1.50	0.75
2:N:484:THR:O	2:N:488:LEU:HD12	1.86	0.75
5:Q:201:SER:OG	5:Q:203:THR:HG22	1.86	0.75
10:V:35:LEU:HB2	10:V:46:ARG:HH12	1.51	0.75
1:M:859:ASN:ND2	1:M:861:LEU:H	1.84	0.75
2:N:394:PHE:CD2	2:N:514:LEU:CD1	2.69	0.75
3:O:165:LYS:O	11:W:6:ARG:NH1	2.19	0.75
1:A:35:ILE:O	1:A:35:ILE:HG22	1.86	0.75
3:C:44:ALA:HA	3:C:71:LEU:HD12	1.66	0.75
1:M:772:GLU:N	1:M:823:GLU:OE2	2.15	0.75
2:N:1016:ALA:O	2:N:1020:ARG:HG3	1.87	0.75
1:M:413:ARG:HH22	2:N:1108:ARG:HH22	1.32	0.75
2:N:457:GLY:O	2:N:470:ALA:HA	1.87	0.75
2:N:899:ILE:HG22	2:N:903:VAL:HG21	1.66	0.75
7:S:89:ALA:HB2	7:S:103:VAL:CA	2.17	0.75
1:A:413:ARG:HH22	2:B:1108:ARG:HH22	1.32	0.75
7:G:13:LEU:HD21	7:G:17:TYR:HB2	1.69	0.75
1:A:710:THR:HG21	9:I:93:LYS:O	1.85	0.75
1:M:853:TYR:HH	1:M:1444:PHE:HD2	1.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:253:MET:O	1:M:254:ASP:HB2	1.86	0.75
1:M:483:PHE:O	2:N:989:THR:HG23	1.86	0.75
2:N:744:HIS:HD2	2:N:746:SER:OG	1.69	0.75
3:O:38:ALA:HA	3:O:164:ALA:HB3	1.67	0.75
2:B:1016:ALA:O	2:B:1020:ARG:HG3	1.87	0.75
2:B:229:ALA:HB3	2:B:247:ILE:HG23	1.68	0.75
1:M:444:LEU:HD23	1:M:502:LEU:HD21	1.69	0.75
1:M:346:VAL:CG2	2:N:1130:PHE:HB2	2.16	0.75
2:N:1215:ARG:CD	4:P:15:ALA:HB2	2.15	0.75
10:J:35:LEU:HB2	10:J:46:ARG:HH12	1.51	0.75
1:M:900:VAL:HG22	1:M:1031:ARG:HG2	1.67	0.75
1:M:504:GLN:NE2	6:R:90:ARG:HH21	1.85	0.75
2:N:1117:GLN:NE2	2:N:1156:ASP:CG	2.35	0.75
2:B:1069:PHE:HD1	2:B:1069:PHE:H	1.34	0.75
4:D:140:PHE:HZ	7:G:85:GLU:HG3	1.49	0.75
1:M:495:SER:O	1:M:499:ARG:HG3	1.86	0.75
2:N:279:ARG:HG2	2:N:284:VAL:HA	1.67	0.75
10:J:1:MET:H1	10:J:56:ILE:H	1.35	0.75
1:M:55:ASP:O	1:M:55:ASP:CG	2.20	0.75
2:N:394:PHE:HE2	2:N:626:VAL:HB	1.52	0.75
3:C:38:ALA:HA	3:C:164:ALA:HB3	1.67	0.74
11:K:56:VAL:HA	11:K:77:THR:HG22	1.69	0.74
1:M:55:ASP:C	1:M:57:LYS:N	2.40	0.74
2:N:229:ALA:HB3	2:N:247:ILE:CG2	2.17	0.74
2:N:229:ALA:HB3	2:N:247:ILE:HG23	1.68	0.74
6:F:109:VAL:HG11	6:F:123:LYS:HG2	1.70	0.74
1:M:1163:THR:HG22	1:M:1165:ILE:H	1.50	0.74
2:N:1114:LEU:HD11	2:N:1202:LEU:HD11	1.69	0.74
5:Q:116:THR:HG22	5:Q:118:SER:H	1.51	0.74
2:B:1117:GLN:HG3	2:B:1156:ASP:OD1	1.85	0.74
6:F:103:MET:CE	7:G:65:SER:CA	2.66	0.74
1:A:1448:ILE:CG2	7:G:18:PHE:CE2	2.54	0.74
2:N:356:HIS:O	2:N:357:ILE:HB	1.86	0.74
1:A:536:THR:HG21	1:A:617:VAL:HA	1.70	0.74
1:A:606:MET:HE3	1:A:607:LEU:N	2.02	0.74
2:B:457:GLY:O	2:B:470:ALA:HA	1.87	0.74
8:H:88:LEU:C	8:H:90:ASP:H	1.90	0.74
1:M:1129:ASP:HB3	1:M:1132:LYS:HB3	1.70	0.74
2:N:802:PRO:HA	2:N:822:ASN:HD21	1.52	0.74
1:M:1444:PHE:HA	6:R:137:TYR:HD1	1.53	0.74
10:V:42:ARG:HD3	10:V:42:ARG:N	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:667:ILE:HD12	1:A:668:GLY:H	1.53	0.74
2:B:1220:ARG:NH1	2:B:1220:ARG:HB3	2.02	0.74
1:M:568:LYS:HB3	8:T:94:TYR:CA	2.18	0.74
1:M:672:ALA:HB3	1:M:677:MET:HG2	1.70	0.74
7:S:88:ASP:HB3	7:S:144:ARG:CA	2.15	0.74
9:U:34:TYR:HD2	9:U:35:THR:H	1.34	0.74
1:A:856:THR:HG21	1:A:858:ARG:HE	1.53	0.74
1:A:859:ASN:ND2	1:A:861:LEU:H	1.84	0.74
2:B:356:HIS:O	2:B:357:ILE:HB	1.87	0.74
3:C:65:ARG:HH21	10:J:5:VAL:HG23	1.52	0.74
1:M:318:LYS:O	1:M:319:SER:HB3	1.88	0.74
1:A:1129:ASP:HB3	1:A:1132:LYS:HB3	1.70	0.74
2:B:802:PRO:HA	2:B:822:ASN:HD21	1.52	0.74
10:J:42:ARG:N	10:J:42:ARG:HD3	2.01	0.74
1:M:1215:ALA:HB1	1:M:1230:TRP:CZ3	2.23	0.74
2:N:1172:ILE:O	2:N:1172:ILE:HG22	1.88	0.74
2:N:1202:LEU:HD23	2:N:1206:GLU:HG3	1.70	0.74
4:D:53:LEU:O	4:D:55:GLU:N	2.20	0.74
5:E:201:SER:OG	5:E:203:THR:HG22	1.87	0.74
6:F:92:ARG:NH2	7:G:63:PRO:HG3	2.03	0.74
1:M:74:MET:O	2:N:1116:ARG:NH2	2.20	0.74
2:N:12:ILE:HD11	2:N:647:ILE:CG1	2.16	0.74
3:O:35:THR:HG21	3:O:251:LEU:HD22	1.68	0.74
1:A:253:MET:O	1:A:254:ASP:HB2	1.86	0.74
1:A:886:THR:O	1:A:941:ARG:HD2	1.88	0.74
2:B:980:PHE:CE2	2:B:1094:ARG:HG3	2.22	0.74
7:G:89:ALA:HB2	7:G:103:VAL:HG22	1.68	0.74
9:U:61:ASP:O	9:U:64:GLN:CG	2.36	0.74
1:A:738:LEU:HD13	1:A:742:ASN:OD1	1.88	0.74
2:B:810:GLU:HB2	2:B:815:ARG:HH22	1.53	0.74
1:M:667:ILE:HD12	1:M:668:GLY:H	1.53	0.74
1:M:738:LEU:HD13	1:M:742:ASN:OD1	1.88	0.74
2:N:503:LYS:HG2	2:N:504:PRO:CD	2.17	0.74
2:N:889:THR:HG22	2:N:891:GLU:H	1.53	0.74
1:M:505:LEU:CD1	6:R:91:ALA:HB1	2.18	0.74
11:W:56:VAL:HA	11:W:77:THR:HG22	1.69	0.74
2:B:251:GLY:O	2:B:259:ARG:HD3	1.87	0.73
2:B:744:HIS:HD2	2:B:746:SER:OG	1.69	0.73
5:E:89:ILE:HG23	5:E:119:ALA:CA	2.10	0.73
6:F:109:VAL:CG1	6:F:110:ASP:H	1.99	0.73
7:G:89:ALA:HB2	7:G:103:VAL:CA	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:61:ASP:O	9:I:64:GLN:CG	2.36	0.73
1:M:354:ILE:CG2	1:M:488:MET:HG3	2.17	0.73
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:A:16:GLU:HG2	1:A:1421:LEU:HD11	1.70	0.73
1:A:226:ASN:HD22	1:A:229:TYR:H	1.36	0.73
1:A:309:ILE:HG22	1:A:310:ALA:H	1.50	0.73
2:B:202:VAL:HG23	2:B:476:LEU:HB2	1.71	0.73
2:B:882:THR:O	2:B:883:LEU:HB2	1.87	0.73
2:N:1220:ARG:HB3	2:N:1220:ARG:NH1	2.02	0.73
2:N:890:TYR:HA	2:N:910:ILE:HG23	1.69	0.73
1:A:1215:ALA:HB1	1:A:1230:TRP:CZ3	2.23	0.73
1:A:55:ASP:C	1:A:57:LYS:N	2.40	0.73
2:B:503:LYS:HG2	2:B:504:PRO:CD	2.17	0.73
2:B:889:THR:HG22	2:B:891:GLU:H	1.53	0.73
8:H:88:LEU:O	8:H:90:ASP:N	2.22	0.73
1:M:346:VAL:HG13	2:N:1130:PHE:CA	2.16	0.73
2:N:24:PHE:HE1	2:N:28:LYS:HG3	1.51	0.73
1:A:1032:ARG:HG2	1:A:1036:GLU:OE2	1.88	0.73
1:A:1316:LEU:HD23	1:A:1341:VAL:HG21	1.70	0.73
1:A:1423:ASP:O	1:A:1424:CYS:HB2	1.88	0.73
1:A:630:LEU:O	1:A:633:THR:HG23	1.88	0.73
1:M:12:ARG:HE	2:N:1192:TYR:HE2	1.36	0.73
2:N:35:LEU:HD23	2:N:164:MET:SD	2.28	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
1:A:134:ARG:O	1:A:138:VAL:HG23	1.88	0.73
1:A:1389:ARG:HB2	1:A:1406:GLU:OE1	1.89	0.73
1:A:354:ILE:CG2	1:A:488:MET:HG3	2.17	0.73
2:B:35:LEU:HD23	2:B:164:MET:SD	2.28	0.73
2:B:882:THR:HG22	2:B:884:ARG:H	1.54	0.73
1:M:512:ILE:HA	1:M:522:MET:HE3	1.71	0.73
2:N:251:GLY:O	2:N:259:ARG:HD3	1.87	0.73
1:A:780:PHE:HE1	1:A:786:PRO:CD	2.00	0.73
1:A:12:ARG:HE	2:B:1192:TYR:HE2	1.36	0.73
1:A:825:LEU:HD21	2:B:765:PRO:HB3	1.70	0.73
1:M:320:GLY:HA2	2:N:464:LYS:CB	2.18	0.73
2:N:980:PHE:CE2	2:N:1094:ARG:HG3	2.22	0.73
2:N:882:THR:O	2:N:883:LEU:HB2	1.87	0.73
1:M:568:LYS:HD3	8:T:94:TYR:CG	2.24	0.73
1:A:444:LEU:HD23	1:A:502:LEU:CD2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:902:LEU:H	1:A:927:GLN:NE2	1.87	0.73
1:M:606:MET:HE3	1:M:607:LEU:N	2.03	0.73
1:M:859:ASN:C	1:M:859:ASN:HD22	1.91	0.73
1:A:322:PRO:O	1:A:323:VAL:HB	1.88	0.73
1:A:357:ASP:HB2	1:A:470:ARG:NH1	2.04	0.73
2:B:290:LEU:HD22	2:B:290:LEU:N	2.04	0.73
1:M:1264:LYS:O	1:M:1267:GLU:HB3	1.88	0.73
1:M:766:VAL:HG21	1:M:809:LEU:HD11	1.70	0.73
2:N:782:LEU:HD12	2:N:788:ARG:NH1	2.03	0.73
2:N:859:TYR:OH	2:N:941:LEU:HD12	1.89	0.73
2:N:882:THR:HG22	2:N:884:ARG:H	1.53	0.73
3:O:65:ARG:HH21	10:V:5:VAL:HG23	1.52	0.73
1:A:1146:LYS:HB2	1:A:1271:LEU:O	1.88	0.73
1:A:672:ALA:HB3	1:A:677:MET:HG2	1.70	0.73
1:M:357:ASP:HB2	1:M:470:ARG:NH1	2.04	0.73
2:N:290:LEU:HD22	2:N:290:LEU:N	2.04	0.73
7:S:91:VAL:HB	7:S:139:LYS:O	1.89	0.73
1:A:671:ILE:HG23	1:A:806:LEU:HD21	1.71	0.73
2:B:1202:LEU:HD23	2:B:1206:GLU:HG3	1.70	0.73
2:B:859:TYR:OH	2:B:941:LEU:HD12	1.89	0.73
3:C:147:LEU:N	3:C:147:LEU:HD23	2.04	0.73
1:A:504:GLN:HE21	6:F:90:ARG:HH21	1.37	0.73
7:G:91:VAL:HB	7:G:139:LYS:O	1.89	0.73
1:M:1423:ASP:O	1:M:1424:CYS:HB2	1.88	0.73
1:M:856:THR:HG21	1:M:858:ARG:HE	1.53	0.73
2:N:810:GLU:HB2	2:N:815:ARG:HH22	1.53	0.73
3:O:112:ASP:HB2	3:O:114:TYR:CE1	2.24	0.73
3:O:147:LEU:HD23	3:O:147:LEU:N	2.04	0.73
2:B:1162:VAL:HG12	2:B:1163:CYS:N	2.04	0.72
3:C:35:THR:HG21	3:C:251:LEU:HD22	1.69	0.72
5:E:47:ASP:CG	5:E:48:SER:H	1.92	0.72
1:M:226:ASN:HD22	1:M:229:TYR:H	1.37	0.72
1:M:902:LEU:H	1:M:927:GLN:NE2	1.87	0.72
2:N:1069:PHE:HD1	2:N:1069:PHE:H	1.35	0.72
3:O:115:SER:HB3	3:O:142:ILE:CG1	2.19	0.72
3:O:42:THR:CG2	3:O:43:LEU:H	1.90	0.72
1:A:568:LYS:HD3	8:H:94:TYR:CG	2.23	0.72
3:C:155:ILE:O	3:C:156:ARG:CG	2.37	0.72
7:G:127:PRO:HG2	7:G:138:THR:CG2	2.19	0.72
8:H:141:ILE:C	8:H:142:LEU:HD12	2.10	0.72
1:A:568:LYS:HB3	8:H:94:TYR:CA	2.17	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1316:LEU:HD23	1:M:1341:VAL:HG21	1.70	0.72
5:Q:47:ASP:CG	5:Q:48:SER:H	1.92	0.72
8:T:88:LEU:C	8:T:90:ASP:H	1.91	0.72
1:A:1264:LYS:O	1:A:1267:GLU:HB3	1.89	0.72
1:M:40:ILE:HB	1:M:41:MET:CE	2.08	0.72
1:M:536:THR:HG21	1:M:617:VAL:HA	1.70	0.72
7:S:80:LYS:N	7:S:80:LYS:HE2	2.04	0.72
1:A:640:PRO:HG2	1:A:641:LYS:H	1.54	0.72
1:A:769:GLN:CG	1:A:817:HIS:HA	2.19	0.72
1:M:322:PRO:O	1:M:323:VAL:HB	1.88	0.72
1:M:444:LEU:HD23	1:M:502:LEU:CD2	2.18	0.72
2:N:552:GLU:HA	2:N:556:MET:HB3	1.71	0.72
7:G:14:HIS:CD2	7:G:16:SER:HB3	2.24	0.72
1:M:1367:ASN:HD22	1:M:1368:TYR:N	1.87	0.72
1:M:640:PRO:HG2	1:M:641:LYS:H	1.55	0.72
2:N:1162:VAL:HG12	2:N:1163:CYS:N	2.05	0.72
8:T:141:ILE:C	8:T:142:LEU:HD12	2.10	0.72
2:B:266:PRO:CG	2:B:352:GLU:HB3	2.20	0.72
2:B:552:GLU:HA	2:B:556:MET:HB3	1.71	0.72
1:M:1146:LYS:HB2	1:M:1271:LEU:O	1.88	0.72
1:M:320:GLY:N	2:N:464:LYS:CA	2.49	0.72
1:M:442:PRO:HD2	1:M:499:ARG:NH2	2.05	0.72
1:A:318:LYS:O	1:A:319:SER:HB3	1.88	0.72
1:A:1447:MET:CG	7:G:60:ARG:N	2.39	0.72
1:M:1097:THR:HG21	1:M:1114:LYS:HB2	1.72	0.72
6:R:109:VAL:HG11	6:R:123:LYS:HG2	1.70	0.72
7:S:127:PRO:HG2	7:S:138:THR:CG2	2.20	0.72
1:A:1097:THR:HG21	1:A:1114:LYS:HB2	1.72	0.72
1:A:1367:ASN:HD22	1:A:1368:TYR:N	1.87	0.72
1:A:1448:ILE:CD1	7:G:70:PHE:CZ	2.71	0.72
1:A:442:PRO:HD2	1:A:499:ARG:NH2	2.05	0.72
2:B:782:LEU:HD12	2:B:788:ARG:NH1	2.03	0.72
5:E:21:MET:HE3	5:E:25:ARG:HE	1.53	0.72
11:K:53:TYR:C	11:K:55:ASP:H	1.92	0.72
1:M:1032:ARG:HG2	1:M:1036:GLU:OE2	1.88	0.72
2:N:266:PRO:CG	2:N:352:GLU:HB3	2.20	0.72
2:N:387:ASP:CG	9:U:91:ARG:HG3	2.10	0.72
3:O:47:LEU:CB	3:O:158:ILE:CG2	2.54	0.72
2:B:509:ASN:H	2:B:509:ASN:HD22	1.38	0.72
6:F:97:ARG:O	6:F:101:ILE:HG13	1.89	0.72
1:M:134:ARG:O	1:M:138:VAL:HG23	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:47:LEU:CB	3:O:158:ILE:HG23	2.20	0.72
1:A:1096:VAL:HG13	1:A:1115:THR:HG21	1.72	0.72
2:B:1172:ILE:O	2:B:1172:ILE:HG22	1.88	0.72
2:B:890:TYR:HA	2:B:910:ILE:HG23	1.69	0.72
5:Q:89:ILE:HG23	5:Q:119:ALA:H	1.51	0.72
1:A:91:PHE:H	1:A:298:GLN:HE22	1.36	0.71
2:B:113:SER:OG	2:B:163:ILE:HD11	1.90	0.71
2:B:575:VAL:HG23	2:B:619:ILE:HD12	1.72	0.71
7:G:163:ILE:HG22	7:G:168:LEU:HB3	1.71	0.71
1:M:1389:ARG:HB2	1:M:1406:GLU:CD	2.08	0.71
1:M:16:GLU:HG2	1:M:1421:LEU:HD11	1.70	0.71
2:N:324:ASP:O	2:N:326:ILE:N	2.23	0.71
6:R:97:ARG:O	6:R:101:ILE:HG13	1.89	0.71
2:B:631:PHE:HB3	2:B:645:LEU:HD22	1.71	0.71
1:M:1389:ARG:HB2	1:M:1406:GLU:CG	2.20	0.71
1:M:780:PHE:HE1	1:M:786:PRO:CD	2.00	0.71
1:M:671:ILE:HG23	1:M:806:LEU:HD21	1.71	0.71
11:K:90:ALA:O	11:K:94:ILE:HG13	1.90	0.71
1:M:91:PHE:H	1:M:298:GLN:HE22	1.36	0.71
2:B:404:PRO:O	2:B:407:ALA:HB3	1.91	0.71
3:C:175:ALA:HB2	10:J:10:CYS:HB2	1.71	0.71
2:N:113:SER:OG	2:N:163:ILE:HD11	1.90	0.71
2:N:202:VAL:HG23	2:N:476:LEU:HB2	1.71	0.71
1:A:1107:LEU:CD2	1:A:1387:ILE:HG21	2.20	0.71
3:C:112:ASP:HB2	3:C:114:TYR:CE1	2.24	0.71
3:C:99:GLU:CG	3:C:121:VAL:HG21	2.20	0.71
7:G:80:LYS:HE2	7:G:80:LYS:N	2.04	0.71
1:A:512:ILE:HA	1:A:522:MET:HE3	1.72	0.71
1:M:357:ASP:HB2	1:M:470:ARG:HH11	1.53	0.71
3:O:99:GLU:CB	3:O:119:ILE:HG23	2.13	0.71
3:O:155:ILE:O	3:O:156:ARG:CG	2.37	0.71
7:S:163:ILE:HG22	7:S:168:LEU:HB3	1.71	0.71
11:W:53:TYR:C	11:W:55:ASP:H	1.92	0.71
1:A:336:ARG:NH1	2:B:1202:LEU:HD22	2.05	0.71
1:A:859:ASN:HD22	1:A:859:ASN:C	1.91	0.71
2:B:288:GLU:O	2:B:291:GLN:HB2	1.91	0.71
10:J:1:MET:N	10:J:55:LEU:N	2.38	0.71
1:M:1096:VAL:HG13	1:M:1115:THR:HG21	1.72	0.71
2:N:404:PRO:O	2:N:407:ALA:HB3	1.91	0.71
2:B:229:ALA:HB3	2:B:247:ILE:CG2	2.21	0.71
2:B:324:ASP:O	2:B:326:ILE:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:376:ASN:O	2:B:380:LEU:HD13	1.91	0.71
2:B:953:LEU:HD21	2:B:965:LYS:HB2	1.73	0.71
1:M:799:GLY:HA2	1:M:816:PHE:HD1	1.51	0.71
2:N:166:ARG:HH11	2:N:166:ARG:HG3	1.56	0.71
2:N:551:LEU:C	2:N:553:GLU:H	1.93	0.71
2:N:575:VAL:HG23	2:N:619:ILE:HD12	1.72	0.71
2:B:354:LEU:HD21	2:B:370:PHE:CD2	2.26	0.71
2:B:957:ASN:ND2	2:B:961:LEU:HD12	2.06	0.71
8:H:41:ASP:O	8:H:42:ILE:HG13	1.91	0.71
1:M:1107:LEU:CD2	1:M:1387:ILE:HG21	2.21	0.71
1:A:1070:ALA:HA	1:A:1370:HIS:ND1	2.06	0.71
1:A:357:ASP:HB2	1:A:470:ARG:HH11	1.53	0.71
2:B:14:THR:O	2:B:17:CYS:SG	2.49	0.71
2:B:890:TYR:HA	2:B:910:ILE:HG21	1.72	0.71
1:M:1389:ARG:HA	1:M:1405:PHE:CE2	2.26	0.71
2:N:14:THR:O	2:N:17:CYS:SG	2.49	0.71
3:O:99:GLU:HB2	3:O:119:ILE:HG21	1.71	0.71
7:S:14:HIS:CD2	7:S:16:SER:HB3	2.24	0.71
3:C:99:GLU:CB	3:C:119:ILE:HG23	2.13	0.70
2:B:1221:SER:HB3	4:D:12:ARG:CB	2.20	0.70
11:K:65:HIS:CD2	11:K:67:LEU:H	2.09	0.70
1:M:565:ALA:HB2	1:M:577:GLN:OE1	1.91	0.70
2:N:1072:MET:HE3	2:N:1085:VAL:CB	2.21	0.70
2:N:957:ASN:ND2	2:N:961:LEU:HD12	2.06	0.70
3:C:181:ASP:CG	3:C:186:LEU:HD13	2.12	0.70
1:M:336:ARG:NH1	2:N:1202:LEU:HD22	2.05	0.70
1:M:570:LYS:O	1:M:572:LEU:HD12	1.91	0.70
2:N:1007:VAL:CG2	2:N:1008:PRO:HD2	2.19	0.70
2:N:953:LEU:HD21	2:N:965:LYS:HB2	1.73	0.70
5:Q:89:ILE:HG22	5:Q:119:ALA:N	1.99	0.70
9:U:106:CYS:SG	9:U:107:LYS:N	2.64	0.70
11:W:90:ALA:O	11:W:94:ILE:HG13	1.90	0.70
1:A:1217:LYS:O	1:A:1221:VAL:HG23	1.91	0.70
1:M:901:ASP:HA	1:M:927:GLN:NE2	2.06	0.70
3:O:175:ALA:HB2	10:V:10:CYS:HB2	1.71	0.70
5:Q:89:ILE:HG23	5:Q:119:ALA:CA	2.12	0.70
9:I:34:TYR:HD2	9:I:35:THR:H	1.34	0.70
1:M:1006:ASN:CG	5:Q:166:ARG:HD2	2.12	0.70
1:A:565:ALA:HB2	1:A:577:GLN:OE1	1.91	0.70
1:A:901:ASP:HA	1:A:927:GLN:NE2	2.06	0.70
3:C:47:LEU:CB	3:C:158:ILE:HG23	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:822:ARG:HB2	1:M:822:ARG:NH1	2.06	0.70
2:N:1039:GLY:HA2	10:V:50:LEU:HD22	1.73	0.70
2:N:556:MET:HE1	2:N:573:ILE:CG2	1.76	0.70
7:S:13:LEU:HD12	7:S:26:LEU:HD21	1.73	0.70
1:A:1388:THR:CG2	1:A:1390:HIS:H	2.05	0.70
1:A:417:ARG:HG3	1:A:418:TYR:CE2	2.27	0.70
1:A:336:ARG:HH11	2:B:1202:LEU:HD22	1.57	0.70
1:M:599:LEU:HA	8:T:121:LEU:HD13	1.72	0.70
1:M:67:CYS:O	1:M:70:CYS:SG	2.50	0.70
8:T:41:ASP:O	8:T:42:ILE:HG13	1.91	0.70
1:A:858:ARG:HD3	1:A:862:GLY:O	1.91	0.70
2:B:1039:GLY:HA2	10:J:50:LEU:HD22	1.73	0.70
2:B:166:ARG:HG3	2:B:166:ARG:HH11	1.56	0.70
3:C:99:GLU:HB2	3:C:119:ILE:HG21	1.71	0.70
1:A:1444:PHE:HE2	6:F:89:GLU:HG2	1.56	0.70
1:M:1244:VAL:HG12	1:M:1245:ILE:H	1.56	0.70
1:M:858:ARG:HD3	1:M:862:GLY:O	1.91	0.70
2:N:394:PHE:CE2	2:N:626:VAL:HB	2.26	0.70
2:N:1217:TYR:CZ	4:P:13:ARG:O	2.45	0.70
1:A:173:PRO:HB3	1:A:186:TRP:CE2	2.27	0.70
1:A:386:ILE:HG22	1:A:387:HIS:N	2.07	0.70
1:A:636:ARG:HA	1:A:636:ARG:HH11	1.57	0.70
1:A:822:ARG:HB2	1:A:822:ARG:NH1	2.06	0.70
4:D:160:ILE:HG22	4:D:163:LEU:HG	1.72	0.70
6:F:100:GLN:NE2	7:G:66:GLY:O	2.25	0.70
6:F:90:ARG:HG2	6:F:91:ALA:N	2.05	0.70
1:A:1450:GLU:HG3	7:G:22:MET:HG2	1.73	0.70
1:M:386:ILE:HG22	1:M:387:HIS:N	2.07	0.70
2:N:288:GLU:O	2:N:291:GLN:HB2	1.91	0.70
2:N:631:PHE:HB3	2:N:645:LEU:HD22	1.71	0.70
4:P:160:ILE:HG22	4:P:163:LEU:HG	1.72	0.70
7:S:1:MET:HE2	7:S:3:PHE:HE1	1.56	0.70
1:A:1448:ILE:HD11	7:G:68:ALA:CB	2.16	0.70
1:A:67:CYS:O	1:A:70:CYS:SG	2.50	0.70
2:B:916:THR:HB	2:B:935:ARG:HG3	1.74	0.70
4:D:66:ALA:HA	4:D:69:ARG:HD2	1.73	0.70
7:G:13:LEU:HD12	7:G:26:LEU:HD21	1.73	0.70
1:M:319:SER:O	2:N:463:LYS:C	2.30	0.70
2:N:509:ASN:HD22	2:N:509:ASN:H	1.39	0.70
2:N:763:GLN:HG2	2:N:765:PRO:HG2	1.74	0.70
2:N:77:ILE:HD12	2:N:425:MET:SD	2.32	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:916:THR:HB	2:N:935:ARG:HG3	1.74	0.70
4:P:66:ALA:HA	4:P:69:ARG:HD2	1.73	0.70
3:O:34:ARG:HD3	11:W:41:THR:OG1	1.91	0.70
1:A:55:ASP:N	1:A:56:PRO:HD3	2.07	0.70
1:M:1070:ALA:HA	1:M:1370:HIS:ND1	2.06	0.70
1:M:173:PRO:HB3	1:M:186:TRP:CE2	2.27	0.70
10:V:1:MET:N	10:V:55:LEU:N	2.39	0.70
1:A:943:PHE:HD2	1:A:944:LEU:HD23	1.57	0.69
6:F:89:GLU:O	6:F:93:ILE:HG13	1.92	0.69
9:I:106:CYS:SG	9:I:107:LYS:N	2.64	0.69
2:N:376:ASN:O	2:N:380:LEU:HD13	1.91	0.69
2:N:944:THR:HG21	2:N:1122:ARG:NH2	2.07	0.69
3:O:99:GLU:CG	3:O:121:VAL:HG21	2.20	0.69
1:A:231:ARG:HG3	1:A:234:TRP:CZ3	2.27	0.69
2:B:944:THR:HG21	2:B:1122:ARG:NH2	2.07	0.69
1:M:1217:LYS:O	1:M:1221:VAL:HG23	1.91	0.69
1:M:55:ASP:N	1:M:56:PRO:HD3	2.07	0.69
3:O:181:ASP:CG	3:O:186:LEU:HD13	2.12	0.69
2:B:1072:MET:CE	2:B:1085:VAL:HB	2.22	0.69
1:A:1448:ILE:HD13	7:G:70:PHE:HZ	1.55	0.69
1:M:1244:VAL:C	1:M:1245:ILE:CG1	2.60	0.69
1:M:346:VAL:N	2:N:1128:LEU:O	2.25	0.69
2:N:1039:GLY:HA2	10:V:50:LEU:CD2	2.22	0.69
11:W:65:HIS:CD2	11:W:67:LEU:H	2.10	0.69
1:A:1351:LEU:O	1:A:1355:ILE:HG22	1.92	0.69
1:A:962:LEU:HA	1:A:965:ILE:HG22	1.74	0.69
2:B:992:VAL:HG22	2:B:993:THR:H	1.58	0.69
3:C:141:GLY:C	3:C:142:ILE:CG1	2.58	0.69
4:D:35:ALA:O	4:D:48:LEU:HD23	1.93	0.69
1:M:417:ARG:HG3	1:M:418:TYR:CE2	2.27	0.69
1:A:570:LYS:O	1:A:572:LEU:HD12	1.91	0.69
1:A:599:LEU:HA	8:H:121:LEU:HD13	1.72	0.69
2:B:1114:LEU:O	2:B:1198:TYR:CE2	2.45	0.69
2:B:551:LEU:C	2:B:553:GLU:H	1.94	0.69
1:A:1447:MET:CG	7:G:59:GLY:C	2.60	0.69
1:M:1388:THR:CG2	1:M:1390:HIS:H	2.05	0.69
1:M:1447:MET:CE	6:R:135:ARG:CB	2.65	0.69
2:N:394:PHE:CE2	2:N:514:LEU:HD13	2.26	0.69
4:P:48:LEU:CD1	4:P:49:ILE:H	2.06	0.69
2:B:77:ILE:HD12	2:B:425:MET:SD	2.32	0.69
6:F:103:MET:CE	7:G:65:SER:HA	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:87:LEU:O	11:K:91:CYS:HB2	1.93	0.69
1:M:284:GLY:O	1:M:286:PRO:HD3	1.92	0.69
4:P:95:GLY:O	4:P:96:ALA:HB3	1.92	0.69
6:R:90:ARG:HG2	6:R:91:ALA:N	2.05	0.69
2:B:110:THR:HG21	2:B:451:LYS:HE2	1.73	0.69
4:D:41:HIS:HB2	7:G:73:LYS:CE	2.23	0.69
1:M:772:GLU:HA	1:M:1086:PHE:CZ	2.28	0.69
1:M:1326:ASP:O	1:M:1328:SER:N	2.25	0.69
1:M:283:ASP:O	1:M:285:SER:N	2.25	0.69
2:N:202:VAL:HG21	2:N:476:LEU:HD13	1.75	0.69
7:S:14:HIS:ND1	7:S:15:PRO:HD2	2.08	0.69
9:U:105:ASN:O	9:U:106:CYS:HB3	1.92	0.69
1:A:102:VAL:O	1:A:106:ILE:HG22	1.93	0.69
1:A:859:ASN:HD22	1:A:861:LEU:H	1.40	0.69
2:B:1069:PHE:HA	2:B:1085:VAL:O	1.93	0.69
2:B:1116:ARG:NE	2:B:1198:TYR:CE1	2.61	0.69
4:D:48:LEU:CD1	4:D:49:ILE:H	2.06	0.69
7:G:14:HIS:ND1	7:G:15:PRO:HD2	2.08	0.69
3:C:34:ARG:HD3	11:K:41:THR:OG1	1.91	0.69
1:M:102:VAL:O	1:M:106:ILE:HG22	1.93	0.69
1:M:413:ARG:HH22	2:N:1108:ARG:NH2	1.90	0.69
2:N:875:GLU:HG3	2:N:877:PRO:HD3	1.75	0.69
2:N:890:TYR:O	2:N:893:LEU:HB2	1.93	0.69
8:T:88:LEU:O	8:T:90:ASP:N	2.22	0.69
1:A:413:ARG:HH22	2:B:1108:ARG:NH2	1.90	0.69
1:A:415:ASP:OD1	1:A:417:ARG:HG2	1.93	0.69
2:N:354:LEU:HD21	2:N:370:PHE:CD2	2.26	0.69
1:A:1244:VAL:HG12	1:A:1245:ILE:H	1.56	0.69
1:A:284:GLY:O	1:A:286:PRO:HD3	1.92	0.69
5:E:196:LYS:HE2	5:E:198:ILE:HD11	1.75	0.69
5:E:18:VAL:HG11	5:E:79:VAL:HG11	1.73	0.69
1:M:1449:ASP:HB2	6:R:133:VAL:HG21	1.74	0.69
1:M:553:TRP:NE1	11:W:62:LYS:HB2	2.03	0.69
1:A:1006:ASN:CG	5:E:166:ARG:HD2	2.12	0.69
1:M:1215:ALA:CB	1:M:1230:TRP:CE3	2.76	0.69
1:M:231:ARG:HG3	1:M:234:TRP:CZ3	2.27	0.69
1:M:415:ASP:OD1	1:M:417:ARG:HG2	1.93	0.69
1:M:943:PHE:HD2	1:M:944:LEU:HD23	1.57	0.69
2:N:1114:LEU:O	2:N:1198:TYR:OH	2.09	0.69
2:N:110:THR:HG21	2:N:451:LYS:HE2	1.74	0.69
2:N:95:THR:OG1	2:N:96:THR:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:35:ALA:O	4:P:48:LEU:HD23	1.93	0.69
10:V:47:ARG:HE	10:V:48:MET:HE2	1.58	0.69
1:A:1084:ASN:HB3	1:A:1086:PHE:HD1	1.58	0.68
1:A:1244:VAL:C	1:A:1245:ILE:CG1	2.60	0.68
2:B:609:ILE:HD12	2:B:609:ILE:N	2.08	0.68
1:M:636:ARG:HH11	1:M:636:ARG:HA	1.57	0.68
2:N:695:GLU:O	2:N:698:ILE:HG12	1.93	0.68
1:A:1215:ALA:CB	1:A:1230:TRP:CE3	2.76	0.68
2:B:875:GLU:HG3	2:B:877:PRO:HD3	1.75	0.68
1:A:1450:GLU:OE2	7:G:23:ASN:CA	2.41	0.68
1:A:553:TRP:NE1	11:K:62:LYS:HB2	2.04	0.68
12:L:30:LYS:HB2	12:L:41:SER:HA	1.75	0.68
1:M:352:THR:HG22	2:N:1103:ILE:HA	1.75	0.68
2:N:1217:TYR:HE2	4:P:14:ARG:CA	1.99	0.68
1:A:441:ASP:O	1:A:461:VAL:HG23	1.94	0.68
1:A:598:LEU:N	1:A:598:LEU:HD12	2.08	0.68
1:M:319:SER:C	2:N:464:LYS:HA	2.14	0.68
2:N:181:TYR:CE2	10:V:61:ARG:HB3	2.28	0.68
12:X:30:LYS:HB2	12:X:41:SER:HA	1.75	0.68
1:A:1326:ASP:O	1:A:1328:SER:N	2.24	0.68
1:A:1448:ILE:CD1	7:G:68:ALA:CB	2.70	0.68
1:A:283:ASP:O	1:A:285:SER:N	2.26	0.68
2:B:763:GLN:HG2	2:B:765:PRO:HG2	1.74	0.68
2:B:890:TYR:O	2:B:893:LEU:HB2	1.93	0.68
1:M:598:LEU:N	1:M:598:LEU:HD12	2.08	0.68
2:N:1107:ALA:O	2:N:1108:ARG:HG2	1.94	0.68
2:N:423:ARG:HB3	2:N:427:ARG:NH2	2.08	0.68
2:N:797:TYR:HB3	2:N:798:TYR:CD2	2.29	0.68
6:R:89:GLU:O	6:R:93:ILE:HG13	1.92	0.68
1:A:40:ILE:HB	1:A:41:MET:CE	2.08	0.68
1:A:843:VAL:HG11	2:B:1136:ASP:OD2	1.93	0.68
9:I:105:ASN:O	9:I:106:CYS:HB3	1.92	0.68
1:M:54:ASN:HB3	1:M:248:ARG:HH22	1.59	0.68
1:M:345:ARG:CA	2:N:1129:ARG:HG3	2.23	0.68
2:N:184:LYS:HD3	2:N:787:VAL:HG11	1.76	0.68
3:O:175:ALA:HB1	10:V:42:ARG:HH12	1.59	0.68
4:P:166:LYS:O	4:P:167:LYS:HB2	1.93	0.68
2:B:423:ARG:HB3	2:B:427:ARG:NH2	2.08	0.68
2:B:202:VAL:HG21	2:B:476:LEU:HD13	1.75	0.68
2:B:695:GLU:O	2:B:698:ILE:HG12	1.93	0.68
2:B:1039:GLY:HA2	10:J:50:LEU:CD2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:346:VAL:HG13	2:N:1130:PHE:H	1.55	0.68
1:M:63:ARG:HA	1:M:74:MET:CE	2.24	0.68
1:M:859:ASN:HD22	1:M:861:LEU:H	1.40	0.68
1:M:962:LEU:HA	1:M:965:ILE:HG22	1.75	0.68
2:N:609:ILE:HD12	2:N:609:ILE:N	2.08	0.68
10:V:51:THR:HG22	10:V:51:THR:O	1.94	0.68
11:W:87:LEU:O	11:W:91:CYS:HB2	1.93	0.68
1:A:1423:ASP:HB3	1:A:1425:ARG:HG3	1.76	0.68
1:A:742:ASN:HD22	1:A:743:ASN:N	1.92	0.68
1:A:766:VAL:CG2	1:A:809:LEU:HD11	2.13	0.68
1:M:801:VAL:HG11	1:M:809:LEU:HD11	1.75	0.68
1:M:838:ILE:HG12	1:M:841:ARG:HH11	1.59	0.68
2:N:992:VAL:HG22	2:N:993:THR:H	1.58	0.68
4:P:41:HIS:HB2	7:S:73:LYS:CE	2.23	0.68
10:V:42:ARG:H	10:V:42:ARG:CD	2.07	0.68
1:A:63:ARG:HA	1:A:74:MET:CE	2.24	0.68
1:A:838:ILE:HG12	1:A:841:ARG:NH1	2.08	0.68
1:A:352:THR:HG22	2:B:1103:ILE:HA	1.75	0.68
1:A:326:ILE:HG21	2:B:1210:MET:HG3	1.76	0.68
2:B:797:TYR:HB3	2:B:798:TYR:CD2	2.29	0.68
10:J:2:ILE:CG2	10:J:3:ILE:N	2.57	0.68
1:M:769:GLN:HG3	1:M:817:HIS:N	2.09	0.68
1:M:984:THR:O	1:M:987:GLU:HB2	1.94	0.68
5:Q:18:VAL:HG11	5:Q:79:VAL:HG11	1.73	0.68
8:T:55:LEU:HD22	8:T:143:ILE:CG2	2.24	0.68
10:V:1:MET:H1	10:V:56:ILE:H	1.40	0.68
1:A:598:LEU:O	1:A:599:LEU:HB2	1.93	0.68
1:A:769:GLN:HB3	1:A:820:ALA:HB2	1.75	0.68
1:A:911:PRO:CB	1:A:917:ALA:HB1	2.22	0.68
10:J:51:THR:O	10:J:51:THR:HG22	1.94	0.68
1:M:336:ARG:HH11	2:N:1202:LEU:HD22	1.57	0.68
1:A:1352:TYR:O	1:A:1355:ILE:CG2	2.42	0.68
1:A:470:ARG:NH2	2:B:991:GLY:O	2.27	0.68
2:B:1007:VAL:CG2	2:B:1008:PRO:HD2	2.20	0.68
2:B:1159:ARG:HD3	2:B:1193:GLN:HG3	1.75	0.68
4:D:95:GLY:O	4:D:96:ALA:HB3	1.92	0.68
3:C:175:ALA:HB1	10:J:42:ARG:HH12	1.59	0.68
10:J:56:ILE:HA	10:J:59:PHE:HD2	1.59	0.68
1:M:441:ASP:O	1:M:461:VAL:HG23	1.94	0.68
1:M:838:ILE:HG12	1:M:841:ARG:NH1	2.08	0.68
2:N:1069:PHE:HA	2:N:1085:VAL:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:393:HIS:HA	2:N:510:THR:HG21	1.76	0.68
1:A:1423:ASP:OD1	1:A:1425:ARG:HD2	1.94	0.67
1:M:114:LEU:HD13	1:M:172:GLN:HE22	1.60	0.67
1:M:527:ASP:HB2	2:N:835:GLN:OE1	1.94	0.67
2:N:572:ARG:HB2	2:N:579:TRP:HE1	1.59	0.67
2:N:912:ILE:O	2:N:938:SER:HB3	1.94	0.67
4:P:179:ASN:HA	4:P:182:GLU:HB2	1.77	0.67
5:Q:21:MET:HE3	5:Q:25:ARG:HH21	1.58	0.67
2:B:1115:THR:O	2:B:1116:ARG:HB2	1.94	0.67
2:B:225:ILE:HG21	2:B:228:VAL:HG23	1.76	0.67
12:L:32:THR:O	12:L:58:ILE:HA	1.95	0.67
1:M:848:ASP:CA	1:M:1427:VAL:CG2	2.72	0.67
1:M:343:GLY:O	2:N:1129:ARG:CZ	2.43	0.67
1:M:476:THR:HG23	1:M:477:SER:N	2.09	0.67
1:M:357:ASP:OD2	11:W:65:HIS:HE1	1.78	0.67
1:A:1376:ASP:HA	1:A:1379:THR:HG22	1.77	0.67
1:A:446:ASN:HB2	1:A:456:MET:HG2	1.77	0.67
11:K:43:ALA:CB	11:K:61:TYR:CD1	2.47	0.67
1:M:1441:THR:CB	2:N:1142:GLY:O	2.42	0.67
1:A:1197:LEU:HD11	1:A:1270:MET:HE1	1.76	0.67
1:A:984:THR:O	1:A:987:GLU:HB2	1.94	0.67
2:B:20:VAL:O	2:B:23:ALA:HB3	1.95	0.67
2:B:737:THR:HG21	9:I:66:PRO:HA	1.77	0.67
1:M:1197:LEU:HD11	1:M:1270:MET:CE	2.25	0.67
2:N:1159:ARG:HD3	2:N:1193:GLN:HG3	1.75	0.67
2:N:225:ILE:HG21	2:N:228:VAL:HG23	1.76	0.67
5:Q:196:LYS:HE2	5:Q:198:ILE:HD11	1.75	0.67
6:R:118:LEU:O	6:R:122:MET:HG3	1.95	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:476:THR:HG23	1:A:477:SER:N	2.09	0.67
2:B:1095:LEU:CD1	2:B:1095:LEU:H	2.07	0.67
2:B:1176:LYS:C	2:B:1178:ASN:H	1.98	0.67
2:B:181:TYR:CE2	10:J:61:ARG:HB3	2.28	0.67
2:B:737:THR:CG2	9:I:66:PRO:HA	2.24	0.67
2:B:912:ILE:O	2:B:938:SER:HB3	1.94	0.67
2:B:992:VAL:HG22	2:B:993:THR:N	2.09	0.67
1:A:1447:MET:O	6:F:133:VAL:HG23	1.94	0.67
8:H:55:LEU:HD22	8:H:143:ILE:CG2	2.24	0.67
1:M:1423:ASP:OD1	1:M:1425:ARG:HD2	1.94	0.67
1:M:673:ASP:HB2	1:M:737:ASN:OD1	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1072:MET:CE	2:N:1085:VAL:HB	2.22	0.67
2:N:737:THR:CG2	9:U:66:PRO:HA	2.24	0.67
2:B:1107:ALA:O	2:B:1108:ARG:HG2	1.94	0.67
4:D:166:LYS:O	4:D:167:LYS:HB2	1.93	0.67
6:F:118:LEU:O	6:F:122:MET:HG3	1.95	0.67
10:J:2:ILE:HG23	10:J:3:ILE:N	2.10	0.67
1:M:742:ASN:HD22	1:M:743:ASN:N	1.92	0.67
12:X:32:THR:O	12:X:58:ILE:HA	1.94	0.67
1:A:822:ARG:O	1:A:826:ILE:HG13	1.95	0.67
1:A:838:ILE:HG12	1:A:841:ARG:HH11	1.59	0.67
2:B:95:THR:OG1	2:B:96:THR:N	2.27	0.67
3:C:166:GLU:HG3	11:K:10:PHE:HZ	1.59	0.67
7:G:153:ASP:CG	7:G:154:VAL:H	1.98	0.67
1:M:400:HIS:O	1:M:402:GLY:N	2.27	0.67
2:N:477:ASN:O	2:N:478:ARG:HD2	1.95	0.67
2:N:575:VAL:HA	2:N:619:ILE:HB	1.76	0.67
1:M:470:ARG:NH2	2:N:991:GLY:O	2.27	0.67
1:A:1448:ILE:HG13	7:G:68:ALA:CB	2.25	0.67
1:A:384:TYR:HB3	6:F:115:THR:HG22	1.76	0.67
1:A:29:ALA:HB1	2:B:1184:SER:CB	2.24	0.67
2:B:681:LEU:O	2:B:687:ILE:HG22	1.95	0.67
1:A:527:ASP:HB2	2:B:835:GLN:OE1	1.94	0.67
5:E:89:ILE:HG23	5:E:119:ALA:H	1.50	0.67
8:H:88:LEU:HB3	8:H:90:ASP:OD1	1.94	0.67
1:M:1423:ASP:HB3	1:M:1425:ARG:HG3	1.76	0.67
1:M:406:VAL:HG22	1:M:433:VAL:HG22	1.76	0.67
1:M:598:LEU:O	1:M:599:LEU:HB2	1.93	0.67
1:M:29:ALA:HB1	2:N:1184:SER:CB	2.24	0.67
12:X:42:LEU:HD22	12:X:46:ASP:HB3	1.77	0.67
1:A:114:LEU:HD13	1:A:172:GLN:HE22	1.60	0.67
1:A:1410:GLU:H	1:A:1410:GLU:CD	1.98	0.67
10:J:42:ARG:H	10:J:42:ARG:CD	2.07	0.67
1:M:1412:LEU:HD13	2:N:1207:LEU:HD11	1.77	0.67
1:M:446:ASN:HB2	1:M:456:MET:HG2	1.77	0.67
2:N:387:ASP:OD2	9:U:91:ARG:CZ	2.43	0.67
2:N:798:TYR:HD1	10:V:4:PRO:HG3	1.60	0.67
1:A:368:PRO:HG2	1:A:371:ILE:HG13	1.75	0.67
1:A:787:HIS:CD2	2:B:700:ILE:HB	2.30	0.67
1:A:357:ASP:OD2	11:K:65:HIS:HE1	1.77	0.67
1:M:1084:ASN:HB3	1:M:1086:PHE:HD1	1.58	0.67
1:M:1393:ASN:CG	1:M:1405:PHE:HD2	1.98	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:368:PRO:HG2	1:M:371:ILE:HG13	1.75	0.67
4:P:57:ARG:HB2	4:P:109:LEU:HD22	1.77	0.67
7:S:153:ASP:CG	7:S:154:VAL:H	1.98	0.67
1:M:1107:LEU:HB3	1:M:1387:ILE:CG2	2.25	0.66
1:M:345:ARG:CA	2:N:1129:ARG:CG	2.73	0.66
1:M:776:ILE:HG23	1:M:819:MET:HE2	1.76	0.66
2:N:1095:LEU:CD1	2:N:1095:LEU:H	2.08	0.66
2:N:395:GLY:HA3	2:N:693:GLU:OE1	1.96	0.66
2:N:630:LEU:HD22	2:N:741:CYS:O	1.95	0.66
3:O:166:GLU:HG3	11:W:10:PHE:HZ	1.59	0.66
2:B:575:VAL:HA	2:B:619:ILE:HB	1.77	0.66
2:B:798:TYR:HD1	10:J:4:PRO:HG3	1.60	0.66
4:D:179:ASN:HA	4:D:182:GLU:HB2	1.77	0.66
1:M:1376:ASP:HA	1:M:1379:THR:HG22	1.77	0.66
1:M:75:ALA:HA	2:N:1116:ARG:NH1	2.10	0.66
2:N:394:PHE:HD2	2:N:514:LEU:CD1	2.06	0.66
2:N:992:VAL:HG22	2:N:993:THR:N	2.09	0.66
3:O:115:SER:CB	3:O:142:ILE:CG1	2.73	0.66
8:T:101:TYR:OH	8:T:121:LEU:HD22	1.95	0.66
8:T:88:LEU:HB3	8:T:90:ASP:OD1	1.94	0.66
1:A:1136:ILE:O	1:A:1140:ILE:HG13	1.96	0.66
1:A:1448:ILE:HG13	7:G:68:ALA:HB2	1.75	0.66
1:A:406:VAL:HG22	1:A:433:VAL:HG22	1.76	0.66
1:A:673:ASP:HB2	1:A:737:ASN:OD1	1.95	0.66
4:D:38:GLN:HB2	7:G:5:LYS:HZ1	1.61	0.66
6:F:99:LEU:HD21	7:G:64:GLY:O	1.96	0.66
1:M:1163:THR:HG22	1:M:1164:VAL:N	2.10	0.66
1:M:558:ASP:OD2	1:M:560:VAL:HB	1.95	0.66
1:M:319:SER:H	2:N:464:LYS:HG2	1.60	0.66
10:V:56:ILE:HA	10:V:59:PHE:HD2	1.59	0.66
1:A:1163:THR:HG22	1:A:1164:VAL:N	2.10	0.66
1:A:856:THR:HG21	1:A:858:ARG:NE	2.10	0.66
4:D:90:ALA:O	4:D:92:VAL:N	2.27	0.66
10:J:9:SER:CB	10:J:44:CYS:HB2	2.26	0.66
1:M:1132:LYS:O	1:M:1136:ILE:HG13	1.96	0.66
1:M:342:MET:O	2:N:1132:GLU:HG2	1.94	0.66
8:T:15:VAL:HG22	8:T:26:ILE:HD13	1.78	0.66
1:A:400:HIS:O	1:A:402:GLY:N	2.27	0.66
2:B:830:TYR:CE2	2:B:1000:PRO:HD3	2.31	0.66
9:I:56:ALA:HB3	9:I:89:GLN:HG3	1.76	0.66
1:M:1154:ILE:HG23	1:M:1195:LEU:HD13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1431:VAL:HG21	2:N:1135:ARG:HH11	1.60	0.66
1:M:41:MET:CB	1:M:49:ARG:HA	2.22	0.66
2:N:1176:LYS:C	2:N:1178:ASN:H	1.98	0.66
3:O:115:SER:OG	3:O:142:ILE:CG1	2.43	0.66
10:V:2:ILE:HG23	10:V:3:ILE:N	2.10	0.66
1:A:1200:ASP:O	1:A:1204:MET:HG2	1.96	0.66
1:A:54:ASN:HB3	1:A:248:ARG:HH22	1.58	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:850:LEU:HD12	2:B:851:PHE:N	2.11	0.66
1:M:326:ILE:HG21	2:N:1210:MET:HG3	1.76	0.66
1:A:558:ASP:OD2	1:A:560:VAL:HB	1.95	0.66
4:D:139:PRO:HA	4:D:142:ILE:CG2	2.25	0.66
1:M:1410:GLU:H	1:M:1410:GLU:CD	1.98	0.66
2:N:160:LYS:HB2	2:N:447:THR:HG23	1.78	0.66
2:N:737:THR:HG21	9:U:66:PRO:HA	1.77	0.66
8:H:101:TYR:OH	8:H:121:LEU:HD22	1.95	0.66
1:M:1118:LEU:HB2	1:M:1332:SER:OG	1.96	0.66
1:M:1168:ASP:OD2	1:M:1241:ARG:HD2	1.96	0.66
1:M:42:ASP:HA	1:M:46:GLN:O	1.96	0.66
5:Q:156:SER:C	5:Q:158:GLY:H	1.99	0.66
8:T:100:VAL:HA	8:T:115:VAL:HA	1.78	0.66
1:A:983:LEU:CD2	1:A:1041:ARG:HA	2.26	0.66
1:A:1328:SER:O	5:E:147:GLU:HB2	1.96	0.66
1:A:1118:LEU:HB2	1:A:1332:SER:OG	1.96	0.66
1:A:1450:GLU:HG2	7:G:22:MET:SD	2.35	0.66
1:M:787:HIS:CD2	2:N:700:ILE:HB	2.30	0.66
2:N:20:VAL:O	2:N:23:ALA:HB3	1.95	0.66
2:N:850:LEU:HD12	2:N:851:PHE:N	2.11	0.66
4:P:48:LEU:HD13	4:P:49:ILE:H	1.61	0.66
1:A:1132:LYS:O	1:A:1136:ILE:HG13	1.96	0.66
2:B:884:ARG:HB2	2:B:935:ARG:HA	1.77	0.66
4:D:48:LEU:HD13	4:D:49:ILE:H	1.61	0.66
1:M:1200:ASP:O	1:M:1204:MET:HG2	1.96	0.66
1:M:1215:ALA:HB1	1:M:1230:TRP:CE3	2.31	0.66
1:M:181:LYS:NZ	1:M:295:GLN:HB3	2.10	0.66
1:M:546:GLN:HG2	1:M:550:MET:HE2	1.78	0.66
3:O:62:ILE:HA	3:O:65:ARG:HG3	1.78	0.66
4:P:139:PRO:HA	4:P:142:ILE:CG2	2.25	0.66
2:N:1166:CYS:HA	4:P:15:ALA:HA	1.76	0.66
9:U:56:ALA:HB3	9:U:89:GLN:HG3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1107:LEU:HB3	1:A:1387:ILE:CG2	2.26	0.65
1:A:1154:ILE:HG23	1:A:1195:LEU:HD13	1.77	0.65
1:A:246:GLN:O	2:B:1114:LEU:HD12	1.95	0.65
2:B:983:ARG:HD2	2:B:1091:TYR:HD2	1.61	0.65
12:L:42:LEU:HD22	12:L:46:ASP:HB3	1.77	0.65
1:M:246:GLN:O	2:N:1114:LEU:HD11	1.90	0.65
1:M:848:ASP:HA	1:M:1427:VAL:CG2	2.26	0.65
2:N:830:TYR:CE2	2:N:1000:PRO:HD3	2.31	0.65
5:Q:77:LEU:HD21	5:Q:79:VAL:HG23	1.77	0.65
8:T:80:PRO:CB	8:T:81:PRO:HD2	2.27	0.65
3:C:253:GLU:O	3:C:256:ALA:HB3	1.97	0.65
2:N:884:ARG:HB2	2:N:935:ARG:HA	1.78	0.65
10:V:9:SER:CB	10:V:44:CYS:HB2	2.26	0.65
2:B:981:ALA:HB3	2:B:1095:LEU:HD11	1.78	0.65
2:B:630:LEU:HD22	2:B:741:CYS:O	1.95	0.65
4:D:57:ARG:HB2	4:D:109:LEU:HD22	1.77	0.65
1:M:983:LEU:CD2	1:M:1041:ARG:HA	2.26	0.65
1:M:24:PRO:O	1:M:27:ILE:CG2	2.45	0.65
2:N:824:ILE:HG22	2:N:1087:PHE:HE2	1.62	0.65
2:N:555:GLY:HA3	2:N:583:HIS:CE1	2.31	0.65
1:A:1215:ALA:HB1	1:A:1230:TRP:CE3	2.31	0.65
1:A:1322:VAL:O	1:A:1325:VAL:HG22	1.96	0.65
2:B:184:LYS:HD3	2:B:787:VAL:HG11	1.76	0.65
1:A:505:LEU:HD11	6:F:91:ALA:CB	2.26	0.65
1:M:69:THR:C	1:M:71:GLY:N	2.50	0.65
1:M:856:THR:HG21	1:M:858:ARG:NE	2.10	0.65
2:N:1115:THR:O	2:N:1116:ARG:HB2	1.93	0.65
2:N:387:ASP:CG	9:U:91:ARG:NE	2.50	0.65
1:A:766:VAL:HG21	1:A:809:LEU:CD1	2.14	0.65
2:N:596:LEU:HD12	2:N:602:ILE:HG23	1.78	0.65
2:N:983:ARG:HD2	2:N:1091:TYR:HD2	1.60	0.65
5:Q:90:LYS:C	5:Q:92:MET:H	1.99	0.65
4:P:41:HIS:HB2	7:S:73:LYS:HE3	1.79	0.65
1:A:1412:LEU:HD13	2:B:1207:LEU:HD11	1.77	0.65
1:A:69:THR:C	1:A:71:GLY:N	2.50	0.65
1:A:903:MET:CG	1:A:927:GLN:HG3	2.26	0.65
2:B:286:ASP:O	2:B:288:GLU:N	2.29	0.65
1:M:870:GLY:O	5:Q:203:THR:HG21	1.97	0.65
1:A:1063:GLY:CA	1:A:1440:GLY:HA2	2.26	0.65
1:A:795:PRO:HG2	1:A:796:GLU:OE2	1.97	0.65
2:B:1095:LEU:HD12	2:B:1095:LEU:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:80:PRO:CB	8:H:81:PRO:HD2	2.26	0.65
1:M:1352:TYR:O	1:M:1355:ILE:CG2	2.45	0.65
1:M:822:ARG:O	1:M:826:ILE:HG13	1.95	0.65
2:N:266:PRO:HG2	2:N:352:GLU:HB3	1.79	0.65
2:B:160:LYS:HB2	2:B:447:THR:HG23	1.78	0.65
6:F:100:GLN:HE21	7:G:66:GLY:HA2	1.59	0.65
2:N:981:ALA:HB3	2:N:1095:LEU:HD11	1.78	0.65
2:N:286:ASP:O	2:N:288:GLU:N	2.29	0.65
2:N:387:ASP:OD1	9:U:91:ARG:CD	2.45	0.65
1:M:864:ILE:HG22	5:Q:173:GLN:O	1.97	0.65
1:A:1154:ILE:CG1	9:I:44:TYR:HB3	2.27	0.65
1:A:42:ASP:HA	1:A:46:GLN:O	1.96	0.65
1:A:676:THR:OG1	1:A:737:ASN:ND2	2.30	0.65
2:B:551:LEU:O	2:B:553:GLU:N	2.30	0.65
2:B:847:ASP:C	2:B:849:GLY:H	2.00	0.65
4:D:150:CYS:HB3	4:D:175:LEU:HD22	1.78	0.65
5:E:123:ILE:CG1	5:E:124:PRO:N	2.54	0.65
1:A:871:GLU:HG2	5:E:207:TYR:CG	2.32	0.65
2:N:983:ARG:HH11	2:N:1091:TYR:CB	2.10	0.65
1:M:1328:SER:O	5:Q:147:GLU:HB2	1.96	0.65
1:A:1168:ASP:OD2	1:A:1241:ARG:HD2	1.96	0.65
1:A:181:LYS:NZ	1:A:295:GLN:HB3	2.10	0.65
2:B:1157:ALA:O	2:B:1158:PHE:HB2	1.97	0.65
2:B:47:GLN:OE1	2:B:82:ILE:HG22	1.96	0.65
4:D:54:SER:H	4:D:109:LEU:CD2	2.09	0.65
8:H:100:VAL:HA	8:H:115:VAL:HA	1.78	0.65
8:H:15:VAL:HG22	8:H:26:ILE:HD13	1.78	0.65
1:M:1027:ARG:O	1:M:1028:LEU:HD23	1.97	0.65
1:M:1239:ILE:HG22	1:M:1240:ILE:N	2.12	0.65
1:M:535:MET:HA	1:M:540:THR:HG21	1.79	0.65
1:M:795:PRO:HG2	1:M:796:GLU:OE2	1.97	0.65
1:M:903:MET:CG	1:M:927:GLN:HG3	2.26	0.65
2:N:394:PHE:HD2	2:N:514:LEU:HD12	1.57	0.65
3:O:253:GLU:O	3:O:256:ALA:HB3	1.97	0.65
1:M:871:GLU:HG2	5:Q:207:TYR:CG	2.32	0.65
1:A:115:LEU:HD12	1:A:142:CYS:SG	2.36	0.64
1:A:24:PRO:O	1:A:27:ILE:CG2	2.45	0.64
1:A:535:MET:HA	1:A:540:THR:HG21	1.79	0.64
2:B:1151:LEU:N	2:B:1151:LEU:HD13	2.12	0.64
2:B:225:ILE:HG21	2:B:228:VAL:CG2	2.26	0.64
2:B:596:LEU:HD12	2:B:602:ILE:HG23	1.78	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	1.79	0.64
1:M:1136:ILE:O	1:M:1140:ILE:HG13	1.96	0.64
1:M:1453:LEU:HD21	7:S:18:PHE:CD2	2.32	0.64
1:M:676:THR:OG1	1:M:737:ASN:ND2	2.30	0.64
1:M:845:ALA:O	1:M:846:LEU:HD23	1.98	0.64
1:M:467:SER:HB2	2:N:1099:VAL:HG11	1.78	0.64
2:N:551:LEU:O	2:N:553:GLU:N	2.30	0.64
2:N:890:TYR:HA	2:N:910:ILE:HG21	1.74	0.64
12:X:63:THR:CG2	12:X:65:ARG:HG3	2.27	0.64
1:A:1027:ARG:O	1:A:1028:LEU:HD23	1.97	0.64
1:A:568:LYS:CB	1:A:569:PRO:CD	2.74	0.64
2:B:873:GLU:O	2:B:914:LYS:HA	1.96	0.64
5:E:156:SER:C	5:E:158:GLY:H	1.99	0.64
5:E:90:LYS:C	5:E:92:MET:H	1.99	0.64
1:A:1444:PHE:HA	6:F:137:TYR:HD1	1.62	0.64
12:L:63:THR:CG2	12:L:65:ARG:HG3	2.27	0.64
2:N:1157:ALA:O	2:N:1158:PHE:HB2	1.97	0.64
2:N:847:ASP:C	2:N:849:GLY:H	2.00	0.64
1:A:845:ALA:O	1:A:846:LEU:HD23	1.97	0.64
2:B:1116:ARG:NE	2:B:1198:TYR:HE1	1.95	0.64
2:B:290:LEU:H	2:B:290:LEU:HD22	1.62	0.64
2:B:22:SER:HA	2:B:811:TYR:HE2	1.63	0.64
8:H:94:TYR:HE2	8:H:96:MET:HG3	1.62	0.64
11:K:40:HIS:HD1	11:K:61:TYR:HH	1.44	0.64
2:N:225:ILE:HG21	2:N:228:VAL:CG2	2.26	0.64
4:P:150:CYS:HB3	4:P:175:LEU:HD22	1.78	0.64
4:P:54:SER:H	4:P:109:LEU:CD2	2.09	0.64
1:M:538:ARG:HH12	8:T:121:LEU:HG	1.61	0.64
2:B:266:PRO:HG2	2:B:352:GLU:HB3	1.79	0.64
5:E:77:LEU:HD21	5:E:79:VAL:HG23	1.78	0.64
1:A:496:GLU:HB3	6:F:99:LEU:HB3	1.79	0.64
2:N:12:ILE:HG23	2:N:652:ILE:HD11	1.79	0.64
2:N:47:GLN:OE1	2:N:82:ILE:HG22	1.96	0.64
6:R:124:GLU:HB3	6:R:130:ILE:HG12	1.79	0.64
2:B:824:ILE:HG22	2:B:1087:PHE:HE2	1.62	0.64
3:C:62:ILE:HA	3:C:65:ARG:HG3	1.78	0.64
7:G:1:MET:HE2	7:G:3:PHE:HE1	1.61	0.64
1:M:568:LYS:CB	1:M:569:PRO:CD	2.74	0.64
1:M:794:SER:HB2	1:M:795:PRO:HD2	1.79	0.64
1:M:769:GLN:CD	1:M:817:HIS:HA	2.17	0.64
2:N:873:GLU:O	2:N:914:LYS:HA	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:42:THR:HB	3:O:170:TRP:HD1	1.63	0.64
7:S:34:VAL:HG12	7:S:45:ILE:CG2	2.25	0.64
2:B:983:ARG:HH11	2:B:1091:TYR:CB	2.10	0.64
8:H:142:LEU:O	8:H:143:ILE:HG13	1.98	0.64
1:M:1449:ASP:HB2	6:R:133:VAL:HG22	1.79	0.64
1:M:225:PHE:CG	1:M:232:PRO:HG3	2.33	0.64
1:M:95:PHE:HE2	1:M:1413:PHE:HB3	1.63	0.64
3:O:175:ALA:HB2	10:V:42:ARG:HH22	1.63	0.64
10:V:9:SER:HB2	10:V:44:CYS:HB2	1.80	0.64
1:A:1063:GLY:HA2	1:A:1440:GLY:HA2	1.79	0.64
1:A:95:PHE:HE2	1:A:1413:PHE:HB3	1.63	0.64
2:B:270:GLN:HG2	2:B:271:ASP:N	2.10	0.64
2:B:12:ILE:HG23	2:B:652:ILE:HD11	1.79	0.64
1:M:115:LEU:HD12	1:M:142:CYS:SG	2.37	0.64
1:M:496:GLU:HB3	6:R:99:LEU:CA	2.28	0.64
2:N:681:LEU:O	2:N:687:ILE:HG22	1.96	0.64
2:N:782:LEU:HD12	2:N:788:ARG:HH11	1.62	0.64
2:N:860:MET:HB2	2:N:965:LYS:HG2	1.78	0.64
2:N:999:MET:HE2	2:N:1011:ILE:HD11	1.79	0.64
6:R:110:ASP:O	6:R:112:GLU:N	2.31	0.64
2:B:1116:ARG:CG	2:B:1198:TYR:CE1	2.79	0.64
4:D:114:ARG:HB3	4:D:115:PHE:CE1	2.32	0.64
1:M:1197:LEU:HD11	1:M:1270:MET:HE1	1.79	0.64
1:M:1322:VAL:O	1:M:1325:VAL:HG22	1.96	0.64
1:M:342:MET:C	2:N:1132:GLU:HG3	2.18	0.64
3:O:38:ALA:O	3:O:164:ALA:HB3	1.98	0.64
2:B:235:LEU:HD11	2:B:359:GLN:NE2	2.13	0.64
3:C:15:ASP:O	3:C:16:GLU:CG	2.46	0.64
4:D:41:HIS:HB2	7:G:73:LYS:HE3	1.78	0.64
8:T:142:LEU:O	8:T:143:ILE:HG13	1.98	0.64
1:A:1239:ILE:HG22	1:A:1240:ILE:N	2.12	0.64
1:A:920:ILE:HG21	1:A:985:ILE:HD11	1.80	0.64
2:B:555:GLY:HA3	2:B:583:HIS:CE1	2.31	0.64
6:F:110:ASP:O	6:F:112:GLU:N	2.31	0.64
1:M:333:LYS:N	1:M:338:ARG:HB3	2.06	0.64
1:M:848:ASP:N	1:M:1427:VAL:HG21	2.13	0.64
2:N:290:LEU:HD22	2:N:290:LEU:H	1.62	0.64
3:O:15:ASP:O	3:O:16:GLU:CG	2.46	0.64
1:A:225:PHE:CG	1:A:232:PRO:HG3	2.33	0.63
1:A:794:SER:HB2	1:A:795:PRO:HD2	1.79	0.63
1:A:467:SER:HB2	2:B:1099:VAL:HG11	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:15:PHE:CZ	5:E:19:LYS:HE2	2.33	0.63
1:A:870:GLY:O	5:E:203:THR:HG21	1.97	0.63
12:L:30:LYS:HG3	12:L:41:SER:OG	1.99	0.63
1:M:769:GLN:OE1	1:M:817:HIS:HA	1.97	0.63
2:N:1096:ARG:O	2:N:1097:HIS:HB2	1.99	0.63
2:N:466:MET:HE3	2:N:467:SER:HA	1.80	0.63
3:O:45:ILE:HG23	3:O:157:CYS:HB3	1.80	0.63
4:P:114:ARG:HB3	4:P:115:PHE:CE1	2.32	0.63
1:M:1154:ILE:CG1	9:U:44:TYR:HB3	2.27	0.63
10:V:7:CYS:SG	10:V:48:MET:HE3	2.37	0.63
1:A:1044:PHE:CE2	1:A:1048:LEU:HD11	2.33	0.63
10:J:46:ARG:HG2	10:J:46:ARG:HH11	1.64	0.63
1:M:1044:PHE:CE2	1:M:1048:LEU:HD11	2.33	0.63
2:N:235:LEU:HD11	2:N:359:GLN:NE2	2.13	0.63
2:N:401:LEU:HD13	2:N:538:ILE:HD12	1.80	0.63
2:N:83:TYR:HB2	2:N:116:TYR:HB2	1.79	0.63
2:N:92:ALA:O	2:N:93:ASP:HB2	1.98	0.63
3:O:201:TRP:HE3	3:O:202:PRO:HD2	1.63	0.63
10:V:46:ARG:HG2	10:V:46:ARG:HH11	1.63	0.63
1:A:1367:ASN:HD22	1:A:1368:TYR:H	1.47	0.63
2:B:1094:ARG:NH2	2:B:1098:MET:HG2	2.13	0.63
2:B:756:ILE:O	2:B:759:PRO:HD3	1.98	0.63
6:F:99:LEU:HD11	7:G:65:SER:C	2.18	0.63
7:G:89:ALA:HB2	7:G:103:VAL:CG2	2.28	0.63
2:N:1159:ARG:CD	2:N:1193:GLN:HE21	2.11	0.63
12:X:30:LYS:HG3	12:X:41:SER:OG	1.98	0.63
1:A:1352:TYR:O	1:A:1355:ILE:HG23	1.98	0.63
1:A:371:ILE:HG22	1:A:375:LEU:HD12	1.80	0.63
1:A:538:ARG:HH12	8:H:121:LEU:HG	1.61	0.63
2:B:83:TYR:HB2	2:B:116:TYR:HB2	1.79	0.63
2:B:1159:ARG:CD	2:B:1193:GLN:HE21	2.12	0.63
2:B:860:MET:HB2	2:B:965:LYS:HG2	1.78	0.63
9:I:14:LEU:HD13	9:I:28:SER:O	1.99	0.63
10:J:35:LEU:CB	10:J:46:ARG:HH12	2.10	0.63
12:L:63:THR:HG21	12:L:65:ARG:HG3	1.79	0.63
1:M:1367:ASN:HD22	1:M:1368:TYR:H	1.47	0.63
1:M:788:PHE:CE1	1:M:797:SER:HA	2.34	0.63
3:O:184:ASN:HD21	3:O:189:THR:HB	1.63	0.63
1:A:890:SER:HB3	1:A:1300:GLU:CG	2.28	0.63
1:A:270:ILE:HD13	1:A:301:VAL:HG22	1.81	0.63
2:B:1116:ARG:HG3	2:B:1198:TYR:CD1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:7:PHE:HA	11:K:10:PHE:CE2	2.34	0.63
1:M:848:ASP:CB	1:M:1427:VAL:HG23	2.27	0.63
1:M:920:ILE:HG21	1:M:985:ILE:HD11	1.80	0.63
8:T:94:TYR:HE2	8:T:96:MET:HG3	1.62	0.63
9:U:62:ILE:HG12	9:U:62:ILE:O	1.98	0.63
1:A:769:GLN:HG3	1:A:817:HIS:HA	1.78	0.63
1:A:776:ILE:HG23	1:A:819:MET:SD	2.38	0.63
3:C:201:TRP:HE3	3:C:202:PRO:HD2	1.64	0.63
1:A:1342:LEU:HD13	5:E:146:HIS:CD2	2.34	0.63
6:F:101:ILE:HD13	6:F:120:ILE:HG22	1.81	0.63
6:F:124:GLU:HB3	6:F:130:ILE:HG12	1.79	0.63
7:G:1:MET:CE	7:G:3:PHE:HE1	2.11	0.63
9:I:69:PRO:HB2	9:I:85:PHE:CZ	2.34	0.63
1:M:270:ILE:HD11	1:M:301:VAL:HA	1.81	0.63
1:M:402:GLY:C	1:M:436:HIS:HD2	2.02	0.63
2:N:1094:ARG:NH2	2:N:1098:MET:HG2	2.13	0.63
2:N:1151:LEU:HD13	2:N:1151:LEU:N	2.12	0.63
2:N:953:LEU:HD23	2:N:953:LEU:O	1.99	0.63
7:S:1:MET:CE	7:S:3:PHE:HE1	2.11	0.63
9:U:14:LEU:HD13	9:U:28:SER:O	1.99	0.63
2:B:766:ARG:NH2	2:B:1020:ARG:HD3	2.14	0.63
3:C:184:ASN:HD21	3:C:189:THR:HB	1.63	0.63
4:D:51:LEU:CD1	4:D:56:SER:HA	2.28	0.63
4:D:68:SER:HB2	4:D:93:THR:HG21	1.80	0.63
7:G:7:LEU:HB2	7:G:74:TYR:CE2	2.34	0.63
2:N:766:ARG:NH2	2:N:1020:ARG:HD3	2.14	0.63
2:N:825:VAL:HG21	2:N:1090:THR:HB	1.80	0.63
6:R:101:ILE:HD13	6:R:120:ILE:HG22	1.81	0.63
1:A:1004:GLY:HA3	1:A:1009:ILE:HG21	1.80	0.63
1:A:321:ARG:HH22	1:A:324:LYS:HE3	1.64	0.63
1:A:446:ASN:HB2	1:A:455:SER:O	1.99	0.63
1:A:739:LYS:HB2	1:A:741:LEU:CD2	2.24	0.63
2:B:1183:ARG:O	2:B:1184:SER:CB	2.46	0.63
2:B:290:LEU:H	2:B:290:LEU:CD2	2.11	0.63
1:M:1004:GLY:HA3	1:M:1009:ILE:HG21	1.80	0.63
1:M:473:LEU:O	1:M:476:THR:HB	1.99	0.63
2:N:22:SER:HA	2:N:811:TYR:HE2	1.63	0.63
4:P:68:SER:HB2	4:P:93:THR:HG21	1.80	0.63
7:S:89:ALA:HB2	7:S:103:VAL:CG2	2.28	0.63
1:A:417:ARG:O	1:A:418:TYR:HD2	1.82	0.63
1:A:752:SER:O	1:A:753:LYS:HG2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:112:SER:HB2	2:B:161:VAL:C	2.19	0.63
2:B:846:ILE:CG2	2:B:974:PRO:HG2	2.29	0.63
1:M:890:SER:HB3	1:M:1300:GLU:CG	2.28	0.63
1:M:825:LEU:HD21	2:N:765:PRO:CB	2.26	0.63
7:S:51:GLY:O	7:S:54:ILE:HG13	1.99	0.63
7:S:7:LEU:HB2	7:S:74:TYR:CE2	2.34	0.63
10:V:35:LEU:CB	10:V:46:ARG:HH12	2.10	0.63
1:A:352:THR:HG21	2:B:1103:ILE:HD12	1.81	0.62
2:B:270:GLN:CG	2:B:271:ASP:H	2.12	0.62
2:B:37:SER:OG	2:B:404:PRO:HD3	1.99	0.62
3:C:38:ALA:O	3:C:164:ALA:HB3	1.98	0.62
1:M:591:ARG:HB3	1:M:606:MET:H	1.64	0.62
2:N:344:TYR:CZ	2:N:348:ILE:HD11	2.34	0.62
6:R:100:GLN:HE22	7:S:61:ILE:CG2	2.04	0.62
12:X:63:THR:HG21	12:X:65:ARG:HG3	1.79	0.62
1:A:19:PHE:HB3	1:A:1416:GLY:HA2	1.81	0.62
2:B:782:LEU:HD12	2:B:788:ARG:HH11	1.62	0.62
2:B:953:LEU:O	2:B:953:LEU:HD23	1.99	0.62
3:C:115:SER:OG	3:C:142:ILE:CG1	2.47	0.62
1:M:371:ILE:HG22	1:M:375:LEU:HD12	1.80	0.62
4:P:51:LEU:CD1	4:P:56:SER:HA	2.29	0.62
5:Q:15:PHE:CZ	5:Q:19:LYS:HE2	2.33	0.62
1:A:776:ILE:HD12	1:A:819:MET:SD	2.40	0.62
1:A:864:ILE:HG22	5:E:173:GLN:O	1.99	0.62
3:C:35:THR:HG21	3:C:251:LEU:CD2	2.29	0.62
7:G:51:GLY:O	7:G:54:ILE:HG13	1.99	0.62
1:M:1342:LEU:HD13	5:Q:146:HIS:CD2	2.34	0.62
1:M:446:ASN:HB2	1:M:455:SER:O	1.99	0.62
1:M:962:LEU:HA	1:M:965:ILE:CG2	2.30	0.62
2:N:290:LEU:H	2:N:290:LEU:CD2	2.11	0.62
2:N:37:SER:OG	2:N:404:PRO:HD3	1.99	0.62
2:N:916:THR:HB	2:N:935:ARG:CG	2.29	0.62
9:U:26:LEU:HD23	9:U:37:LEU:HA	1.81	0.62
12:X:62:ARG:HG2	12:X:63:THR:H	1.64	0.62
2:B:459:TRP:HA	2:B:459:TRP:CE3	2.34	0.62
2:B:401:LEU:HD13	2:B:538:ILE:HD12	1.80	0.62
2:N:417:LEU:O	2:N:421:ILE:HG13	2.00	0.62
2:N:393:HIS:NE2	2:N:696:GLU:HG3	2.14	0.62
1:A:107:CYS:SG	1:A:148:CYS:HB2	2.40	0.62
1:A:630:LEU:O	1:A:633:THR:CG2	2.47	0.62
1:A:788:PHE:CE1	1:A:797:SER:HA	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:981:SER:OG	1:A:982:ASP:N	2.32	0.62
2:B:825:VAL:HG21	2:B:1090:THR:HB	1.80	0.62
2:B:1096:ARG:O	2:B:1097:HIS:HB2	1.98	0.62
2:B:758:PHE:CZ	2:B:1044:ALA:HA	2.35	0.62
2:B:842:ASN:ND2	2:B:845:SER:OG	2.33	0.62
3:C:42:THR:HB	3:C:170:TRP:HD1	1.63	0.62
5:E:174:LEU:HD23	5:E:175:PRO:CD	2.28	0.62
3:C:219:PHE:CD2	8:H:45:GLU:HG2	2.34	0.62
1:M:19:PHE:HB3	1:M:1416:GLY:HA2	1.81	0.62
1:M:417:ARG:O	1:M:418:TYR:HD2	1.82	0.62
1:M:630:LEU:O	1:M:633:THR:CG2	2.47	0.62
1:M:739:LYS:N	1:M:739:LYS:HD2	2.13	0.62
2:N:698:ILE:HD11	2:N:700:ILE:HD11	1.81	0.62
3:O:219:PHE:CD2	8:T:45:GLU:HG2	2.35	0.62
11:W:7:PHE:HA	11:W:10:PHE:CE2	2.34	0.62
1:A:270:ILE:HD11	1:A:301:VAL:HA	1.81	0.62
1:A:521:VAL:CG1	1:A:521:VAL:CA	2.73	0.62
2:B:1208:MET:O	2:B:1211:ASN:N	2.31	0.62
2:B:387:ASP:OD2	9:I:91:ARG:NE	2.33	0.62
2:B:416:LYS:HB2	2:B:416:LYS:NZ	2.15	0.62
2:B:417:LEU:O	2:B:421:ILE:HG13	2.00	0.62
2:B:92:ALA:O	2:B:93:ASP:HB2	1.98	0.62
3:C:148:ARG:CG	3:C:149:ASN:H	2.13	0.62
3:C:45:ILE:HG23	3:C:157:CYS:HB3	1.80	0.62
9:I:26:LEU:HD23	9:I:37:LEU:HA	1.81	0.62
1:M:107:CYS:SG	1:M:148:CYS:HB2	2.40	0.62
1:M:521:VAL:CA	1:M:521:VAL:CG2	2.73	0.62
1:M:752:SER:O	1:M:753:LYS:HG2	1.99	0.62
2:N:1220:ARG:HB3	2:N:1220:ARG:CZ	2.29	0.62
2:N:842:ASN:ND2	2:N:845:SER:OG	2.33	0.62
3:O:184:ASN:ND2	3:O:189:THR:HB	2.15	0.62
1:A:962:LEU:HA	1:A:965:ILE:CG2	2.30	0.62
2:B:1072:MET:HE3	2:B:1085:VAL:CB	2.30	0.62
3:C:184:ASN:ND2	3:C:189:THR:HB	2.15	0.62
4:D:56:SER:CB	4:D:109:LEU:HD11	2.29	0.62
5:E:16:ARG:O	5:E:20:GLU:HG3	2.00	0.62
7:G:160:ILE:HG22	7:G:161:GLY:N	2.14	0.62
1:M:346:VAL:H	2:N:1129:ARG:HA	1.62	0.62
1:M:846:LEU:HB3	1:M:849:ILE:HD12	1.81	0.62
1:M:967:GLN:HA	1:M:970:GLN:CG	2.30	0.62
2:N:1169:MET:CE	2:N:1204:PHE:HB2	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1183:ARG:O	2:N:1184:SER:CB	2.46	0.62
2:N:459:TRP:CE3	2:N:459:TRP:HA	2.34	0.62
4:P:139:PRO:O	4:P:142:ILE:HG23	2.00	0.62
4:P:25:ALA:C	4:P:27:LEU:H	2.02	0.62
4:P:90:ALA:O	4:P:92:VAL:N	2.26	0.62
2:B:883:LEU:O	2:B:885:LEU:N	2.33	0.62
1:A:1453:LEU:HD23	7:G:22:MET:SD	2.39	0.62
3:C:65:ARG:NH2	10:J:3:ILE:O	2.33	0.62
2:N:480:THR:O	2:N:483:SER:HB3	2.00	0.62
2:N:394:PHE:HE2	2:N:514:LEU:HD13	1.65	0.62
1:A:890:SER:HB3	1:A:1300:GLU:HG3	1.81	0.62
1:A:41:MET:CB	1:A:49:ARG:HA	2.22	0.62
1:A:846:LEU:HD12	1:A:1071:ALA:HB2	1.80	0.62
1:A:872:ASP:OD2	1:A:874:LEU:HB2	2.00	0.62
2:B:344:TYR:CZ	2:B:348:ILE:HD11	2.34	0.62
2:B:698:ILE:HD11	2:B:700:ILE:HD11	1.81	0.62
2:B:799:PRO:HB3	2:B:818:PRO:HG2	1.81	0.62
9:I:19:ASP:OD1	9:I:22:ASN:HB2	2.00	0.62
3:C:65:ARG:NH1	10:J:2:ILE:CG2	2.63	0.62
1:M:846:LEU:HD12	1:M:1071:ALA:HB2	1.80	0.62
1:M:263:LEU:C	1:M:265:HIS:H	2.03	0.62
2:N:744:HIS:CD2	2:N:746:SER:OG	2.53	0.62
2:N:756:ILE:O	2:N:759:PRO:HD3	1.99	0.62
2:N:798:TYR:N	2:N:798:TYR:HD2	1.98	0.62
3:O:167:HIS:HD2	3:O:168:ALA:H	1.46	0.62
9:U:69:PRO:HB2	9:U:85:PHE:CZ	2.34	0.62
1:A:1331:TYR:CD1	1:A:1338:ILE:HD11	2.35	0.62
1:A:591:ARG:HB3	1:A:606:MET:H	1.64	0.62
1:A:630:LEU:HA	1:A:633:THR:CG2	2.30	0.62
2:B:480:THR:O	2:B:483:SER:HB3	2.00	0.62
3:C:221:TYR:CD1	3:C:222:LYS:HG3	2.35	0.62
9:I:40:ASP:CG	9:I:41:PRO:HD2	2.20	0.62
1:M:890:SER:HB3	1:M:1300:GLU:HG3	1.81	0.62
1:M:321:ARG:HH22	1:M:324:LYS:HE3	1.64	0.62
1:M:960:VAL:HG22	1:M:1054:GLN:HB3	1.82	0.62
2:N:834:ASN:HA	2:N:838:SER:O	2.00	0.62
2:N:846:ILE:CG2	2:N:974:PRO:HG2	2.29	0.62
8:T:58:THR:HG22	8:T:59:LEU:N	2.15	0.62
10:V:2:ILE:H	10:V:56:ILE:HG22	1.65	0.62
2:N:800:GLN:HG2	10:V:51:THR:CG2	2.30	0.62
11:W:40:HIS:HD1	11:W:61:TYR:HH	1.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:263:LEU:C	1:A:265:HIS:H	2.03	0.61
1:A:854:ASP:OD1	1:A:856:THR:HG22	2.00	0.61
2:B:916:THR:HB	2:B:935:ARG:CG	2.29	0.61
1:M:872:ASP:OD2	1:M:874:LEU:HB2	2.00	0.61
2:N:270:GLN:HG2	2:N:271:ASP:N	2.10	0.61
2:N:416:LYS:NZ	2:N:416:LYS:HB2	2.15	0.61
3:O:35:THR:HG21	3:O:251:LEU:CD2	2.30	0.61
7:S:7:LEU:CD1	7:S:45:ILE:HD11	2.30	0.61
9:U:40:ASP:CG	9:U:41:PRO:HD2	2.20	0.61
1:A:848:ASP:O	1:A:859:ASN:HA	2.00	0.61
2:B:220:ALA:HB1	2:B:222:PRO:HD2	1.82	0.61
2:B:955:THR:HG22	2:B:956:THR:N	2.14	0.61
4:D:25:ALA:C	4:D:27:LEU:H	2.02	0.61
6:F:99:LEU:HD12	6:F:99:LEU:C	2.21	0.61
12:L:62:ARG:HG2	12:L:63:THR:H	1.64	0.61
1:M:1293:SER:O	1:M:1294:VAL:HG23	2.00	0.61
1:M:1331:TYR:CD1	1:M:1338:ILE:HD11	2.35	0.61
1:M:270:ILE:HD13	1:M:301:VAL:HG22	1.81	0.61
2:N:883:LEU:O	2:N:885:LEU:N	2.33	0.61
3:O:164:ALA:HA	3:O:167:HIS:O	1.99	0.61
2:N:815:ARG:O	10:V:53:VAL:HG21	2.00	0.61
1:A:667:ILE:HD11	2:B:1067:ARG:O	2.00	0.61
3:C:259:LEU:HD11	11:K:88:GLU:HA	1.82	0.61
1:M:344:LYS:C	2:N:1129:ARG:CG	2.68	0.61
1:M:962:LEU:O	1:M:965:ILE:HG22	2.01	0.61
1:M:967:GLN:HA	1:M:970:GLN:HG3	1.83	0.61
2:N:1215:ARG:HD2	4:P:15:ALA:CB	2.21	0.61
3:O:167:HIS:CD2	3:O:168:ALA:H	2.19	0.61
1:A:402:GLY:C	1:A:436:HIS:HD2	2.02	0.61
2:B:744:HIS:ND1	2:B:745:PRO:HD2	2.15	0.61
3:C:221:TYR:CE1	3:C:222:LYS:HG3	2.35	0.61
4:D:139:PRO:O	4:D:142:ILE:HG23	2.00	0.61
8:H:38:LEU:HD13	8:H:124:LEU:HD13	1.82	0.61
9:I:62:ILE:HG12	9:I:62:ILE:O	1.98	0.61
10:J:2:ILE:H	10:J:56:ILE:HG22	1.65	0.61
1:M:642:ILE:CG1	1:M:643:CYS:N	2.64	0.61
1:M:854:ASP:OD1	1:M:856:THR:HG22	2.00	0.61
2:N:112:SER:HB2	2:N:161:VAL:C	2.19	0.61
2:N:220:ALA:HB1	2:N:222:PRO:HD2	1.82	0.61
2:N:744:HIS:ND1	2:N:745:PRO:HD2	2.15	0.61
3:O:221:TYR:CD1	3:O:222:LYS:HG3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:56:SER:CB	4:P:109:LEU:HD11	2.29	0.61
5:Q:16:ARG:O	5:Q:20:GLU:HG3	2.00	0.61
1:A:801:VAL:HG11	1:A:809:LEU:HG	1.81	0.61
1:A:967:GLN:HA	1:A:970:GLN:CG	2.30	0.61
2:B:983:ARG:HH11	2:B:1091:TYR:HB3	1.66	0.61
2:B:556:MET:HE3	2:B:573:ILE:HG21	0.64	0.61
3:C:175:ALA:HB2	10:J:42:ARG:HH22	1.63	0.61
1:M:1122:LEU:H	1:M:1122:LEU:CD1	2.13	0.61
1:M:630:LEU:HA	1:M:633:THR:CG2	2.30	0.61
2:N:983:ARG:HH11	2:N:1091:TYR:HB3	1.66	0.61
3:O:65:ARG:NH1	10:V:2:ILE:CG2	2.63	0.61
11:W:70:ASN:O	11:W:71:PHE:HB3	2.00	0.61
1:A:1122:LEU:CD1	1:A:1122:LEU:H	2.13	0.61
1:A:264:THR:HG22	1:A:264:THR:O	2.01	0.61
2:B:572:ARG:HB2	2:B:579:TRP:NE1	2.15	0.61
2:B:834:ASN:HA	2:B:838:SER:O	2.00	0.61
3:C:167:HIS:HD2	3:C:168:ALA:H	1.46	0.61
8:H:61:ASN:O	8:H:62:SER:HB2	2.01	0.61
2:N:572:ARG:HB2	2:N:579:TRP:NE1	2.15	0.61
5:Q:14:SER:O	5:Q:18:VAL:HG23	2.01	0.61
8:T:38:LEU:HD13	8:T:124:LEU:HD13	1.82	0.61
1:A:34:LYS:HD3	1:A:34:LYS:N	2.15	0.61
1:A:775:ARG:HB2	1:A:798:LYS:HB3	1.83	0.61
1:A:846:LEU:HB3	1:A:849:ILE:HD12	1.81	0.61
2:B:1149:GLU:HA	2:B:1153:GLU:OE1	2.00	0.61
2:B:1169:MET:CE	2:B:1204:PHE:HB2	2.29	0.61
2:B:253:GLU:HG2	2:B:253:GLU:O	2.00	0.61
2:B:290:LEU:HD12	2:B:306:LEU:HD13	1.81	0.61
5:E:92:MET:HE3	5:E:119:ALA:HB1	1.82	0.61
6:F:103:MET:HE3	7:G:65:SER:HB2	1.81	0.61
7:G:7:LEU:HB2	7:G:74:TYR:HE2	1.66	0.61
1:M:108:MET:C	1:M:110:CYS:H	2.03	0.61
2:N:1073:TYR:CE2	2:N:1080:LYS:HG2	2.36	0.61
2:N:290:LEU:HD12	2:N:306:LEU:HD13	1.81	0.61
2:N:446:ILE:O	2:N:450:LEU:HG	2.00	0.61
3:O:141:GLY:C	3:O:142:ILE:CG1	2.66	0.61
6:R:100:GLN:NE2	7:S:61:ILE:CG2	2.57	0.61
1:A:1447:MET:HG2	7:G:60:ARG:HB3	1.76	0.61
2:B:798:TYR:HD2	2:B:798:TYR:N	1.98	0.61
7:G:34:VAL:HG11	7:G:74:TYR:OH	2.01	0.61
1:A:561:VAL:HG23	8:H:78:TRP:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1331:TYR:HD1	1:M:1338:ILE:HD11	1.66	0.61
2:N:1095:LEU:HD12	2:N:1095:LEU:N	2.12	0.61
2:N:798:TYR:N	2:N:798:TYR:CD2	2.68	0.61
6:R:99:LEU:C	6:R:99:LEU:HD12	2.21	0.61
1:M:497:GLU:HG2	6:R:99:LEU:HD23	1.83	0.61
1:A:203:LEU:CG	1:A:207:GLU:HB2	2.31	0.61
1:A:267:LEU:HD21	1:A:304:TYR:CE1	2.36	0.61
1:A:473:LEU:O	1:A:476:THR:HB	1.99	0.61
1:A:63:ARG:HG2	1:A:74:MET:HE1	1.82	0.61
1:A:70:CYS:O	1:A:72:GLU:HG2	2.01	0.61
1:A:967:GLN:HA	1:A:970:GLN:HG3	1.82	0.61
3:C:167:HIS:HE1	12:L:72:THR:HA	1.66	0.61
3:C:164:ALA:HA	3:C:167:HIS:O	1.99	0.61
1:A:1450:GLU:CG	7:G:22:MET:SD	2.89	0.61
7:G:7:LEU:CD1	7:G:45:ILE:HD11	2.30	0.61
10:J:5:VAL:HG12	10:J:6:ARG:HG3	1.83	0.61
1:M:267:LEU:HD21	1:M:304:TYR:CE1	2.36	0.61
1:M:70:CYS:O	1:M:72:GLU:HG2	2.01	0.61
3:O:221:TYR:CE1	3:O:222:LYS:HG3	2.35	0.61
1:M:699:GLN:HA	9:U:97:MET:O	2.01	0.61
3:O:65:ARG:NH2	10:V:3:ILE:O	2.33	0.61
3:O:259:LEU:HD11	11:W:88:GLU:HA	1.82	0.61
1:A:538:ARG:HH22	8:H:121:LEU:CD1	2.14	0.61
2:B:744:HIS:CD2	2:B:746:SER:OG	2.53	0.61
11:K:70:ASN:O	11:K:71:PHE:HB3	2.00	0.61
1:M:320:GLY:HA2	2:N:464:LYS:HB3	1.83	0.61
1:M:417:ARG:HG3	1:M:418:TYR:CD2	2.36	0.61
1:M:63:ARG:HG2	1:M:74:MET:HE1	1.83	0.61
1:M:848:ASP:O	1:M:859:ASN:HA	2.00	0.61
1:M:352:THR:HG21	2:N:1103:ILE:HD12	1.81	0.61
2:N:181:TYR:CD2	10:V:61:ARG:HB3	2.36	0.61
2:B:1116:ARG:HG3	2:B:1198:TYR:CZ	2.35	0.60
2:B:872:GLU:OE1	2:B:914:LYS:HE3	2.01	0.60
3:C:66:LEU:HD23	3:C:66:LEU:N	2.16	0.60
1:M:1163:THR:HG22	1:M:1165:ILE:N	2.15	0.60
1:M:827:ASP:O	1:M:831:LYS:HG2	2.00	0.60
2:N:1120:GLU:HG2	2:N:1121:GLY:N	2.16	0.60
7:S:34:VAL:HG11	7:S:74:TYR:OH	2.01	0.60
10:V:13:VAL:O	10:V:14:VAL:HG22	2.01	0.60
1:A:1016:ALA:O	1:A:1017:THR:HG22	2.00	0.60
1:A:1331:TYR:HD1	1:A:1338:ILE:HD11	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:744:VAL:O	1:A:748:VAL:HG23	2.01	0.60
1:A:801:VAL:HG11	1:A:809:LEU:CG	2.32	0.60
2:B:1220:ARG:CZ	2:B:1220:ARG:HB3	2.29	0.60
2:B:446:ILE:O	2:B:450:LEU:HG	2.01	0.60
2:B:815:ARG:O	10:J:53:VAL:HG21	2.00	0.60
9:I:7:CYS:HB2	9:I:34:TYR:CD1	2.36	0.60
10:J:13:VAL:O	10:J:14:VAL:HG22	2.02	0.60
1:M:1326:ASP:C	1:M:1328:SER:H	2.04	0.60
2:N:758:PHE:CZ	2:N:1044:ALA:HA	2.35	0.60
1:M:667:ILE:HD11	2:N:1067:ARG:O	2.00	0.60
3:O:66:LEU:N	3:O:66:LEU:HD23	2.16	0.60
7:S:160:ILE:HG22	7:S:161:GLY:N	2.15	0.60
7:S:7:LEU:HB2	7:S:74:TYR:HE2	1.66	0.60
1:A:960:VAL:HG22	1:A:1054:GLN:HB3	1.82	0.60
1:A:535:MET:O	1:A:575:GLY:HA3	2.02	0.60
1:A:801:VAL:HG22	1:A:813:GLU:HB3	1.81	0.60
1:A:827:ASP:O	1:A:831:LYS:HG2	2.00	0.60
2:B:405:LEU:HB3	2:B:459:TRP:CZ2	2.37	0.60
2:B:41:PHE:HA	2:B:45:SER:HB2	1.83	0.60
2:B:607:SER:OG	2:B:620:PHE:HB2	2.02	0.60
1:M:1326:ASP:OD1	1:M:1328:SER:HB2	2.01	0.60
1:M:691:VAL:O	1:M:695:ILE:CG1	2.49	0.60
2:N:253:GLU:O	2:N:253:GLU:HG2	2.00	0.60
2:N:955:THR:HG22	2:N:956:THR:N	2.14	0.60
9:U:19:ASP:OD1	9:U:22:ASN:HB2	2.00	0.60
1:A:642:ILE:CG1	1:A:643:CYS:N	2.63	0.60
1:A:342:MET:CE	1:A:844:LYS:NZ	2.64	0.60
2:B:1196:ILE:HB	2:B:1197:PRO:HD2	1.82	0.60
2:B:52:GLU:HG3	2:B:53:GLU:N	2.15	0.60
3:C:167:HIS:CD2	3:C:168:ALA:H	2.18	0.60
5:E:14:SER:O	5:E:18:VAL:HG23	2.01	0.60
1:A:699:GLN:HA	9:I:97:MET:O	2.01	0.60
1:M:173:PRO:HD3	1:M:186:TRP:NE1	2.17	0.60
1:A:1326:ASP:C	1:A:1328:SER:H	2.05	0.60
1:A:365:VAL:O	1:A:365:VAL:HG13	2.02	0.60
7:G:9:LEU:HG	7:G:10:ILE:N	2.16	0.60
10:J:7:CYS:SG	10:J:48:MET:HE3	2.41	0.60
1:M:869:TYR:HE1	1:M:1066:VAL:HG13	1.67	0.60
1:M:1389:ARG:HA	1:M:1405:PHE:HE2	1.65	0.60
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:365:VAL:HG13	1:M:365:VAL:O	2.02	0.60
1:M:519:LYS:HE2	1:M:625:SER:O	2.02	0.60
1:M:981:SER:OG	1:M:982:ASP:N	2.31	0.60
2:N:266:PRO:O	2:N:267:TYR:HB2	2.02	0.60
10:V:1:MET:H1	10:V:55:LEU:N	1.99	0.60
1:A:1163:THR:HG22	1:A:1165:ILE:N	2.15	0.60
1:A:1326:ASP:OD1	1:A:1328:SER:HB2	2.01	0.60
8:H:58:THR:HG22	8:H:59:LEU:N	2.15	0.60
1:M:493:PRO:CB	1:M:498:THR:HG22	2.32	0.60
9:U:7:CYS:HB2	9:U:34:TYR:CD1	2.36	0.60
1:A:1293:SER:O	1:A:1294:VAL:HG23	2.00	0.60
1:A:962:LEU:O	1:A:965:ILE:HG22	2.01	0.60
2:B:30:LEU:HD13	2:B:485:LEU:HD13	1.84	0.60
1:M:34:LYS:N	1:M:34:LYS:HD3	2.15	0.60
2:N:847:ASP:HB3	3:O:167:HIS:NE2	2.16	0.60
7:S:9:LEU:HG	7:S:10:ILE:N	2.16	0.60
1:M:538:ARG:HH22	8:T:121:LEU:CD1	2.14	0.60
10:V:5:VAL:HG12	10:V:6:ARG:HG3	1.83	0.60
2:B:634:GLU:C	2:B:636:ASP:H	2.05	0.60
1:M:1376:ASP:O	1:M:1379:THR:HG22	2.02	0.60
1:M:630:LEU:O	1:M:634:VAL:HG23	2.02	0.60
1:M:739:LYS:HB2	1:M:741:LEU:CD2	2.24	0.60
2:N:111:TYR:HE2	2:N:170:CYS:HG	1.49	0.60
2:N:607:SER:OG	2:N:620:PHE:HB2	2.02	0.60
2:N:872:GLU:OE1	2:N:914:LYS:HE3	2.01	0.60
8:T:61:ASN:O	8:T:62:SER:HB2	2.01	0.60
1:A:389:LEU:O	1:A:393:VAL:HG23	2.02	0.60
5:E:107:GLY:HA3	5:E:131:ILE:HG23	1.84	0.60
7:G:88:ASP:CB	7:G:144:ARG:HA	2.23	0.60
8:H:80:PRO:HB2	8:H:81:PRO:HD2	1.82	0.60
8:H:9:ILE:HG12	8:H:56:THR:HG23	1.84	0.60
2:B:181:TYR:CD2	10:J:61:ARG:HB3	2.37	0.60
1:M:1348:ARG:NH1	1:M:1376:ASP:OD1	2.35	0.60
2:N:1196:ILE:HB	2:N:1197:PRO:HD2	1.82	0.60
2:N:30:LEU:HD13	2:N:485:LEU:HD13	1.84	0.60
2:N:41:PHE:HA	2:N:45:SER:HB2	1.83	0.60
8:T:80:PRO:HB2	8:T:81:PRO:HD2	1.83	0.60
1:A:108:MET:C	1:A:110:CYS:H	2.03	0.60
1:A:546:GLN:HG2	1:A:550:MET:HE2	1.82	0.60
1:A:577:GLN:O	1:A:580:SER:HB2	2.02	0.60
1:A:691:VAL:O	1:A:695:ILE:CG1	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:776:ILE:HG23	1:A:819:MET:HE1	1.83	0.60
1:A:86:LEU:HG	1:A:238:THR:O	2.02	0.60
2:B:1073:TYR:CE2	2:B:1080:LYS:HG2	2.36	0.60
2:B:799:PRO:HG2	10:J:55:LEU:HD11	1.84	0.60
1:M:1021:GLN:CG	1:M:1021:GLN:CA	2.76	0.60
1:M:345:ARG:CB	2:N:1129:ARG:HB2	2.31	0.60
1:M:389:LEU:O	1:M:393:VAL:HG23	2.02	0.60
1:M:342:MET:HE1	1:M:844:LYS:NZ	2.09	0.60
2:N:804:ALA:HA	2:N:1042:GLY:O	2.02	0.60
2:N:1116:ARG:HG3	2:N:1198:TYR:CE1	2.37	0.60
2:N:211:ALA:O	2:N:213:ILE:HG13	2.01	0.60
2:N:799:PRO:HB3	2:N:818:PRO:HG2	1.82	0.60
1:A:1445:ASP:OD1	7:G:60:ARG:HD2	2.02	0.59
1:A:493:PRO:CB	1:A:498:THR:HG22	2.32	0.59
2:B:804:ALA:HA	2:B:1042:GLY:O	2.02	0.59
2:B:847:ASP:HB3	3:C:167:HIS:NE2	2.17	0.59
8:H:18:GLY:O	8:H:19:ARG:HB2	2.02	0.59
8:H:59:LEU:O	8:H:60:ALA:CB	2.50	0.59
1:M:1016:ALA:O	1:M:1017:THR:HG22	2.00	0.59
1:M:744:VAL:O	1:M:748:VAL:HG23	2.01	0.59
2:N:648:THR:H	2:N:651:HIS:HD2	1.50	0.59
7:S:34:VAL:CG1	7:S:45:ILE:HG21	2.29	0.59
3:O:167:HIS:HE1	12:X:72:THR:HA	1.66	0.59
1:A:1034:LEU:O	1:A:1038:ARG:HD3	2.02	0.59
2:B:1120:GLU:HG2	2:B:1121:GLY:N	2.16	0.59
2:B:211:ALA:O	2:B:213:ILE:HG13	2.01	0.59
2:B:266:PRO:O	2:B:267:TYR:HB2	2.02	0.59
2:B:857:ARG:HG2	2:B:859:TYR:CE1	2.38	0.59
5:E:21:MET:CE	5:E:25:ARG:HH21	2.15	0.59
1:M:536:THR:CG2	1:M:617:VAL:HA	2.32	0.59
1:M:568:LYS:CB	1:M:569:PRO:HD2	2.31	0.59
2:N:799:PRO:HG2	10:V:55:LEU:HD11	1.84	0.59
8:T:59:LEU:O	8:T:60:ALA:CB	2.50	0.59
1:A:1122:LEU:HD13	1:A:1122:LEU:H	1.68	0.59
1:A:332:GLY:O	1:A:333:LYS:HB3	2.03	0.59
1:A:362:LEU:HA	1:A:472:ASN:ND2	2.18	0.59
1:A:630:LEU:O	1:A:634:VAL:HG23	2.02	0.59
2:B:1096:ARG:O	2:B:1097:HIS:CB	2.50	0.59
2:B:111:TYR:HE2	2:B:170:CYS:HG	1.50	0.59
3:C:119:ILE:CG1	3:C:121:VAL:HG22	2.32	0.59
3:C:226:ASN:O	3:C:227:ARG:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:21:MET:CE	5:E:25:ARG:HE	2.15	0.59
7:G:34:VAL:HG12	7:G:45:ILE:CG2	2.25	0.59
1:M:1085:THR:HG21	1:M:1097:THR:HA	1.85	0.59
1:M:775:ARG:HB2	1:M:798:LYS:HB3	1.83	0.59
2:N:1096:ARG:O	2:N:1097:HIS:CB	2.50	0.59
2:N:770:GLN:HG2	2:N:983:ARG:O	2.02	0.59
1:M:561:VAL:HG23	8:T:78:TRP:H	1.66	0.59
1:A:410:ASN:O	1:A:412:ASP:N	2.35	0.59
1:A:452:HIS:CD2	1:A:1076:GLU:HG3	2.37	0.59
1:A:591:ARG:HD3	1:A:605:GLY:HA2	1.84	0.59
3:C:42:THR:CG2	3:C:43:LEU:H	1.90	0.59
10:J:46:ARG:HG2	10:J:46:ARG:NH1	2.18	0.59
11:K:53:TYR:O	11:K:55:ASP:N	2.35	0.59
1:M:72:GLU:OE2	2:N:1175:LEU:HB2	2.02	0.59
2:N:1202:LEU:HD23	2:N:1206:GLU:CG	2.32	0.59
2:N:556:MET:HE3	2:N:573:ILE:HG21	0.63	0.59
8:T:18:GLY:O	8:T:19:ARG:HB2	2.02	0.59
11:W:53:TYR:O	11:W:55:ASP:N	2.36	0.59
1:A:1376:ASP:O	1:A:1379:THR:HG22	2.02	0.59
1:A:50:GLU:C	1:A:52:GLY:H	2.06	0.59
1:A:525:VAL:HG12	1:A:526:GLN:H	1.67	0.59
1:A:900:VAL:HB	1:A:930:LEU:CD1	2.31	0.59
2:B:621:THR:O	2:B:622:ASP:O	2.21	0.59
1:A:681:THR:HG23	2:B:726:ILE:CD1	2.32	0.59
2:B:798:TYR:CD2	2:B:798:TYR:N	2.68	0.59
8:H:142:LEU:C	8:H:143:ILE:HG13	2.23	0.59
1:M:410:ASN:O	1:M:412:ASP:N	2.35	0.59
1:M:512:ILE:O	1:M:520:PRO:HA	2.03	0.59
1:M:831:LYS:O	1:M:835:THR:HB	2.03	0.59
1:M:86:LEU:HG	1:M:238:THR:O	2.02	0.59
2:N:292:HIS:O	2:N:295:TYR:HE2	1.86	0.59
2:N:587:SER:HA	2:N:610:ARG:NH1	2.18	0.59
3:O:251:LEU:HD12	3:O:251:LEU:O	2.02	0.59
5:Q:21:MET:CE	5:Q:25:ARG:HH21	2.15	0.59
1:A:181:LYS:HZ3	1:A:295:GLN:HB3	1.67	0.59
1:A:173:PRO:HD3	1:A:186:TRP:NE1	2.17	0.59
1:A:417:ARG:HG3	1:A:418:TYR:CD2	2.36	0.59
1:A:512:ILE:O	1:A:520:PRO:HA	2.03	0.59
1:A:568:LYS:CB	1:A:569:PRO:HD2	2.31	0.59
1:A:869:TYR:HE1	1:A:1066:VAL:HG13	1.67	0.59
2:B:999:MET:HE2	2:B:1011:ILE:HD11	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:362:LEU:HA	1:M:472:ASN:ND2	2.18	0.59
2:N:1152:MET:CE	2:N:1157:ALA:HA	2.32	0.59
2:N:1208:MET:O	2:N:1211:ASN:N	2.31	0.59
2:N:159:GLY:HA2	2:N:447:THR:OG1	2.02	0.59
2:N:52:GLU:HG3	2:N:53:GLU:N	2.15	0.59
3:O:148:ARG:CG	3:O:149:ASN:H	2.13	0.59
6:R:109:VAL:CG1	6:R:110:ASP:H	1.99	0.59
8:T:142:LEU:C	8:T:143:ILE:HG13	2.23	0.59
1:A:1426:GLY:O	1:A:1429:GLU:HG2	2.03	0.59
1:A:346:VAL:N	2:B:1128:LEU:O	2.35	0.59
1:A:72:GLU:OE2	2:B:1175:LEU:HB2	2.02	0.59
5:E:16:ARG:NH1	5:E:16:ARG:HG3	2.17	0.59
6:F:82:THR:HG22	6:F:84:TYR:N	2.10	0.59
8:H:12:VAL:HG21	8:H:53:ASP:HB2	1.85	0.59
2:N:1166:CYS:O	2:N:1168:LEU:N	2.35	0.59
2:N:394:PHE:CE2	2:N:514:LEU:CD1	2.85	0.59
5:Q:16:ARG:HG3	5:Q:16:ARG:NH1	2.17	0.59
1:A:1016:ALA:O	1:A:1017:THR:CG2	2.51	0.59
1:A:69:THR:O	1:A:71:GLY:N	2.35	0.59
2:B:224:PRO:HG2	2:B:225:ILE:HD12	1.85	0.59
2:B:292:HIS:O	2:B:295:TYR:HE2	1.86	0.59
2:B:800:GLN:HG2	10:J:51:THR:CG2	2.31	0.59
1:M:1016:ALA:O	1:M:1017:THR:CG2	2.51	0.59
1:M:1426:GLY:O	1:M:1429:GLU:HG2	2.03	0.59
1:M:332:GLY:O	1:M:333:LYS:HB3	2.03	0.59
1:M:900:VAL:HB	1:M:930:LEU:CD1	2.31	0.59
4:P:169:VAL:O	4:P:172:GLN:HB2	2.03	0.59
1:A:1214:VAL:O	1:A:1218:ILE:HG13	2.03	0.59
1:A:926:LEU:HD13	1:A:985:ILE:HD12	1.85	0.59
1:A:988:ILE:HD11	1:A:1033:ILE:CG1	2.33	0.59
2:B:344:TYR:CE2	2:B:348:ILE:HD11	2.38	0.59
2:B:587:SER:HA	2:B:610:ARG:NH1	2.18	0.59
1:M:967:GLN:O	1:M:970:GLN:HB2	2.02	0.59
2:N:1129:ARG:HG2	2:N:1131:GLY:N	2.17	0.59
2:N:1148:LYS:O	2:N:1152:MET:HB2	2.01	0.59
2:N:955:THR:CG2	2:N:956:THR:N	2.65	0.59
5:Q:21:MET:CE	5:Q:25:ARG:HE	2.15	0.59
8:T:36:ILE:HA	8:T:125:GLU:O	2.03	0.59
8:T:9:ILE:HG12	8:T:56:THR:HG23	1.84	0.59
1:A:1371:MET:CE	1:A:1371:MET:H	2.16	0.59
1:A:40:ILE:CB	1:A:41:MET:HE2	2.09	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:LYS:HD3	8:H:94:TYR:CD2	2.37	0.59
1:A:739:LYS:HD2	1:A:739:LYS:N	2.13	0.59
1:A:967:GLN:O	1:A:970:GLN:HB2	2.02	0.59
2:B:1152:MET:CE	2:B:1157:ALA:HA	2.33	0.59
2:B:648:THR:H	2:B:651:HIS:HD2	1.50	0.59
3:C:243:VAL:HG12	3:C:243:VAL:O	2.02	0.59
4:D:169:VAL:O	4:D:172:GLN:HB2	2.03	0.59
1:A:1444:PHE:CE2	6:F:89:GLU:HG2	2.36	0.59
1:M:346:VAL:H	2:N:1129:ARG:CA	2.16	0.59
2:N:344:TYR:CE2	2:N:348:ILE:HD11	2.37	0.59
8:T:94:TYR:CE2	8:T:96:MET:HG3	2.38	0.59
2:B:761:HIS:HB2	2:B:1024:ALA:HB2	1.85	0.58
2:B:86:ARG:HB3	2:B:87:PRO:HD2	1.85	0.58
5:E:21:MET:HE3	5:E:25:ARG:HH21	1.68	0.58
1:M:577:GLN:O	1:M:580:SER:HB2	2.02	0.58
3:O:243:VAL:O	3:O:243:VAL:HG12	2.02	0.58
5:Q:21:MET:HE3	5:Q:25:ARG:HE	1.67	0.58
6:R:101:ILE:HD13	6:R:120:ILE:CG2	2.33	0.58
3:O:167:HIS:CE1	12:X:72:THR:HA	2.38	0.58
1:A:1215:ALA:HA	1:A:1218:ILE:HD12	1.85	0.58
1:A:1348:ARG:NH1	1:A:1376:ASP:OD1	2.35	0.58
1:A:536:THR:CG2	1:A:617:VAL:HA	2.32	0.58
1:A:791:ASP:OD2	9:I:87:GLN:HG3	2.03	0.58
1:A:1441:THR:CG2	2:B:1144:ALA:HB3	2.32	0.58
2:B:159:GLY:HA2	2:B:447:THR:OG1	2.02	0.58
2:B:846:ILE:HG23	2:B:974:PRO:CG	2.33	0.58
5:E:175:PRO:O	5:E:211:ARG:HA	2.03	0.58
1:A:1453:LEU:HD21	7:G:18:PHE:CA	2.34	0.58
12:L:63:THR:HG22	12:L:64:LYS:N	2.18	0.58
1:M:1215:ALA:HA	1:M:1218:ILE:HD12	1.85	0.58
1:M:1214:VAL:O	1:M:1218:ILE:HG13	2.03	0.58
1:M:53:LEU:CD2	1:M:54:ASN:N	2.57	0.58
1:M:568:LYS:HD3	8:T:94:TYR:CD2	2.37	0.58
2:N:761:HIS:HB2	2:N:1024:ALA:HB2	1.85	0.58
2:N:405:LEU:HB3	2:N:459:TRP:CZ2	2.36	0.58
1:M:681:THR:HG23	2:N:726:ILE:CD1	2.32	0.58
3:O:119:ILE:CG1	3:O:121:VAL:HG22	2.32	0.58
1:A:675:SER:OG	5:Q:43:SER:O	2.18	0.58
7:S:89:ALA:CB	7:S:103:VAL:HG22	2.33	0.58
1:A:1268:ALA:O	1:A:1270:MET:N	2.36	0.58
1:A:338:ARG:HG2	2:B:1132:GLU:OE1	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:346:VAL:CG1	2:B:1130:PHE:CB	2.78	0.58
2:B:770:GLN:HG2	2:B:983:ARG:O	2.02	0.58
2:B:821:GLN:NE2	2:B:851:PHE:H	1.98	0.58
8:H:94:TYR:CE2	8:H:96:MET:HG3	2.38	0.58
1:M:493:PRO:HB3	1:M:502:LEU:CD1	2.31	0.58
1:M:576:LYS:HE2	1:M:616:GLY:O	2.03	0.58
1:M:75:ALA:CA	2:N:1116:ARG:NH1	2.65	0.58
2:N:270:GLN:CG	2:N:271:ASP:H	2.12	0.58
2:N:286:ASP:C	2:N:288:GLU:H	2.06	0.58
2:N:634:GLU:O	2:N:636:ASP:N	2.35	0.58
3:O:257:ASN:O	3:O:261:GLU:N	2.36	0.58
5:Q:107:GLY:HA3	5:Q:131:ILE:HG23	1.84	0.58
6:R:103:MET:HE2	7:S:64:GLY:O	2.03	0.58
1:M:791:ASP:OD2	9:U:87:GLN:HG3	2.03	0.58
1:A:317:GLN:HB2	1:A:323:VAL:CG2	2.34	0.58
2:B:1169:MET:HE2	2:B:1204:PHE:HB2	1.83	0.58
2:B:1202:LEU:HD23	2:B:1206:GLU:CG	2.33	0.58
2:B:594:ARG:O	2:B:598:ARG:HG3	2.04	0.58
3:C:251:LEU:HD12	3:C:251:LEU:O	2.02	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
1:M:1371:MET:H	1:M:1371:MET:CE	2.16	0.58
1:M:535:MET:O	1:M:575:GLY:HA3	2.02	0.58
1:M:243:PRO:HB3	2:N:1209:ALA:HB2	1.86	0.58
2:N:634:GLU:C	2:N:636:ASP:H	2.05	0.58
2:N:86:ARG:HB3	2:N:87:PRO:HD2	1.85	0.58
3:O:111:THR:O	3:O:147:LEU:HD23	2.04	0.58
3:O:47:LEU:CB	3:O:158:ILE:HG21	2.21	0.58
1:A:316:LEU:HD23	1:A:322:PRO:HA	1.86	0.58
1:A:576:LYS:HE2	1:A:616:GLY:O	2.03	0.58
1:A:786:PRO:CG	2:B:700:ILE:HD12	2.34	0.58
1:A:95:PHE:O	1:A:99:ILE:HG13	2.03	0.58
2:B:278:PHE:CD1	2:B:289:ILE:HG23	2.39	0.58
3:C:189:THR:HG22	3:C:190:ASP:N	2.19	0.58
4:D:41:HIS:HB2	7:G:73:LYS:HZ1	1.69	0.58
1:M:1122:LEU:HD13	1:M:1122:LEU:H	1.67	0.58
1:M:1389:ARG:HG3	1:M:1406:GLU:HB3	1.86	0.58
1:M:41:MET:H	1:M:41:MET:CE	2.17	0.58
1:M:63:ARG:HA	1:M:74:MET:HE1	1.85	0.58
1:M:95:PHE:O	1:M:99:ILE:HG13	2.03	0.58
2:N:116:TYR:HA	2:N:156:VAL:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:189:THR:HG22	3:O:190:ASP:N	2.19	0.58
5:Q:175:PRO:O	5:Q:211:ARG:HA	2.03	0.58
12:X:63:THR:HG22	12:X:64:LYS:N	2.18	0.58
1:A:968:ASN:O	1:A:972:ILE:CG1	2.52	0.58
2:B:158:ILE:CG2	2:B:446:ILE:HD12	2.32	0.58
6:F:99:LEU:CD2	7:G:64:GLY:O	2.51	0.58
3:C:175:ALA:HB3	10:J:42:ARG:HH22	1.69	0.58
1:M:1154:ILE:HG13	9:U:44:TYR:HB3	1.85	0.58
1:M:1403:CYS:SG	1:M:1412:LEU:HD21	2.43	0.58
1:M:346:VAL:CG2	1:M:491:HIS:CE1	2.87	0.58
1:M:859:ASN:HD21	1:M:861:LEU:HB2	1.69	0.58
2:N:422:TYR:HA	2:N:425:MET:HE3	1.85	0.58
2:N:995:ARG:O	2:N:999:MET:HB2	2.03	0.58
5:Q:104:PHE:O	5:Q:105:SER:CB	2.52	0.58
10:V:46:ARG:HG2	10:V:46:ARG:NH1	2.17	0.58
2:B:1166:CYS:O	2:B:1168:LEU:N	2.35	0.58
2:B:634:GLU:O	2:B:636:ASP:N	2.35	0.58
8:H:36:ILE:HA	8:H:125:GLU:O	2.03	0.58
1:M:1268:ALA:O	1:M:1270:MET:N	2.36	0.58
1:M:342:MET:HE2	1:M:844:LYS:HZ2	1.51	0.58
1:M:50:GLU:C	1:M:52:GLY:H	2.06	0.58
1:M:591:ARG:HD3	1:M:605:GLY:HA2	1.84	0.58
2:N:280:ALA:HA	2:N:323:LEU:HD12	1.86	0.58
1:M:319:SER:H	2:N:464:LYS:CG	2.16	0.58
1:M:568:LYS:CB	8:T:95:VAL:H	2.16	0.58
1:A:1403:CYS:SG	1:A:1412:LEU:HD21	2.43	0.58
1:A:54:ASN:C	1:A:56:PRO:HD3	2.24	0.58
1:A:519:LYS:HE2	1:A:625:SER:O	2.01	0.58
1:A:871:GLU:HB2	5:E:203:THR:HG21	1.86	0.58
2:B:950:ASP:O	2:B:951:GLN:HB2	2.03	0.58
5:E:84:GLU:HB2	5:E:87:VAL:HG22	1.85	0.58
6:F:101:ILE:HD13	6:F:120:ILE:CG2	2.33	0.58
3:C:167:HIS:CE1	12:L:72:THR:HA	2.38	0.58
1:M:568:LYS:HB2	1:M:569:PRO:HD2	1.85	0.58
1:M:856:THR:CG2	1:M:858:ARG:HE	2.17	0.58
1:M:887:ILE:HG13	1:M:944:LEU:HB2	1.84	0.58
2:N:278:PHE:CD1	2:N:289:ILE:HG23	2.39	0.58
2:N:12:ILE:HD13	2:N:647:ILE:CG1	2.34	0.58
2:N:745:PRO:O	2:N:748:ILE:HG12	2.04	0.58
5:Q:84:GLU:HB2	5:Q:87:VAL:HG22	1.84	0.58
4:P:38:GLN:HB2	7:S:5:LYS:HZ1	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:984:THR:H	1:A:987:GLU:CG	2.16	0.58
2:B:216:VAL:HG12	2:B:229:ALA:HB2	1.86	0.58
2:B:190:MET:HE2	2:B:485:LEU:HD23	1.86	0.58
2:B:650:GLU:O	2:B:654:LYS:HB2	2.03	0.58
9:I:64:GLN:O	9:I:66:PRO:HD3	2.04	0.58
1:M:54:ASN:C	1:M:56:PRO:HD3	2.24	0.58
1:M:926:LEU:HD13	1:M:985:ILE:HD12	1.85	0.58
2:N:839:MET:HE3	2:N:1010:LEU:HD11	1.86	0.58
2:N:1096:ARG:HD2	2:N:1097:HIS:ND1	2.19	0.58
2:N:1148:LYS:O	2:N:1153:GLU:OE1	2.22	0.58
1:M:786:PRO:CG	2:N:700:ILE:HD12	2.34	0.58
1:A:105:CYS:O	1:A:114:LEU:HG	2.04	0.58
1:A:1085:THR:HG21	1:A:1097:THR:HA	1.85	0.58
1:A:1154:ILE:HG13	9:I:44:TYR:HB3	1.85	0.58
1:A:55:ASP:N	1:A:56:PRO:CD	2.66	0.58
1:A:831:LYS:O	1:A:835:THR:HB	2.02	0.58
1:A:859:ASN:HD21	1:A:861:LEU:HB2	1.69	0.58
1:A:898:TYR:CE2	1:A:1032:ARG:HD2	2.39	0.58
2:B:286:ASP:C	2:B:288:GLU:H	2.06	0.58
2:B:290:LEU:CD2	2:B:290:LEU:N	2.67	0.58
2:B:639:LYS:O	2:B:640:ASP:CB	2.52	0.58
2:B:681:LEU:O	2:B:687:ILE:CG2	2.52	0.58
2:B:955:THR:CG2	2:B:956:THR:N	2.65	0.58
1:M:525:VAL:HG12	1:M:526:GLN:H	1.67	0.58
1:M:984:THR:H	1:M:987:GLU:CG	2.16	0.58
2:N:596:LEU:CD1	2:N:601:ALA:HB3	2.32	0.58
2:N:639:LYS:O	2:N:640:ASP:CB	2.52	0.58
7:S:1:MET:HE1	7:S:80:LYS:HE3	1.86	0.58
1:A:100:LYS:O	1:A:104:GLU:HG3	2.04	0.57
1:A:1085:THR:HG23	1:A:1098:LEU:H	1.69	0.57
1:A:1316:LEU:O	1:A:1318:GLU:N	2.36	0.57
1:A:105:CYS:SG	1:A:139:TRP:HA	2.44	0.57
1:A:41:MET:CE	1:A:41:MET:H	2.17	0.57
1:A:353:VAL:O	1:A:468:THR:HB	2.04	0.57
2:B:509:ASN:N	2:B:509:ASN:ND2	2.43	0.57
2:B:976:ILE:O	2:B:976:ILE:HG22	2.04	0.57
5:E:104:PHE:O	5:E:105:SER:CB	2.52	0.57
1:A:1453:LEU:HD21	7:G:18:PHE:HA	1.85	0.57
1:A:1445:ASP:OD1	7:G:60:ARG:CD	2.52	0.57
1:M:1037:PHE:O	1:M:1039:LEU:N	2.37	0.57
1:M:42:ASP:HB3	1:M:45:ARG:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:55:ASP:N	1:M:56:PRO:CD	2.66	0.57
1:M:968:ASN:O	1:M:972:ILE:CG1	2.51	0.57
2:N:1207:LEU:HD13	2:N:1212:ILE:HG21	1.86	0.57
2:N:396:LYS:HE3	2:N:693:GLU:OE2	2.04	0.57
2:N:650:GLU:O	2:N:654:LYS:HB2	2.03	0.57
2:N:857:ARG:HG2	2:N:859:TYR:CE1	2.38	0.57
2:N:882:THR:HG22	2:N:884:ARG:N	2.19	0.57
3:O:148:ARG:HG2	3:O:149:ASN:N	2.19	0.57
1:A:14:VAL:H	1:A:1435:GLN:HE22	1.51	0.57
1:A:39:GLU:O	1:A:53:LEU:HB3	2.04	0.57
10:J:47:ARG:NE	10:J:48:MET:HE2	2.16	0.57
2:N:1169:MET:HE2	2:N:1204:PHE:HB2	1.85	0.57
1:A:107:CYS:N	1:A:114:LEU:HD21	2.20	0.57
1:A:333:LYS:N	1:A:338:ARG:HB3	2.06	0.57
1:A:447:ARG:HB3	1:A:479:TYR:HB3	1.86	0.57
1:A:493:PRO:HB3	1:A:502:LEU:CD1	2.31	0.57
1:A:856:THR:CG2	1:A:858:ARG:HE	2.17	0.57
1:A:911:PRO:N	1:A:917:ALA:HB1	2.19	0.57
1:A:887:ILE:HG13	1:A:944:LEU:HB2	1.84	0.57
4:D:38:GLN:HB2	7:G:5:LYS:NZ	2.19	0.57
6:F:100:GLN:HE21	7:G:66:GLY:HA3	1.69	0.57
1:M:1316:LEU:O	1:M:1318:GLU:N	2.36	0.57
1:M:105:CYS:SG	1:M:139:TRP:HA	2.44	0.57
1:M:317:GLN:HB2	1:M:323:VAL:CG2	2.34	0.57
1:M:353:VAL:O	1:M:468:THR:HB	2.04	0.57
2:N:290:LEU:CD2	2:N:290:LEU:N	2.67	0.57
2:N:621:THR:O	2:N:622:ASP:O	2.21	0.57
3:O:226:ASN:O	3:O:227:ARG:HB2	2.03	0.57
1:M:505:LEU:CD1	6:R:91:ALA:CB	2.74	0.57
8:T:12:VAL:HG21	8:T:53:ASP:HB2	1.85	0.57
1:A:1316:LEU:HD23	1:A:1341:VAL:CG2	2.34	0.57
1:A:568:LYS:HB2	1:A:569:PRO:HD2	1.85	0.57
1:A:76:GLU:OE2	2:B:1159:ARG:NH1	2.38	0.57
2:B:369:PHE:HB3	2:B:579:TRP:CZ3	2.38	0.57
2:B:637:GLU:OE2	2:B:639:LYS:HB2	2.04	0.57
2:B:745:PRO:O	2:B:748:ILE:HG12	2.04	0.57
1:M:1118:LEU:N	1:M:1311:THR:CG2	2.64	0.57
1:M:1257:ALA:O	1:M:1258:GLU:HB2	2.04	0.57
2:N:82:ILE:HG13	2:N:116:TYR:O	2.05	0.57
1:M:871:GLU:HB2	5:Q:203:THR:HG21	1.86	0.57
1:A:854:ASP:O	1:A:1002:LEU:HD21	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:637:GLU:C	2:B:639:LYS:H	2.07	0.57
2:B:834:ASN:HB3	2:B:840:ILE:HG13	1.86	0.57
1:M:100:LYS:O	1:M:104:GLU:HG3	2.04	0.57
1:M:105:CYS:O	1:M:114:LEU:HG	2.04	0.57
1:M:318:LYS:O	1:M:319:SER:CB	2.52	0.57
1:M:316:LEU:HD23	1:M:322:PRO:HA	1.86	0.57
1:M:739:LYS:CB	1:M:741:LEU:HD23	2.26	0.57
2:N:633:VAL:O	2:N:634:GLU:O	2.23	0.57
1:M:1445:ASP:OD2	6:R:137:TYR:CZ	2.57	0.57
8:T:88:LEU:C	8:T:90:ASP:N	2.58	0.57
9:U:95:THR:HG22	9:U:96:ASN:N	2.15	0.57
2:B:12:ILE:HD13	2:B:647:ILE:CG1	2.34	0.57
2:B:593:MET:O	2:B:602:ILE:HD11	2.04	0.57
2:B:831:SER:HB3	2:B:994:TYR:OH	2.05	0.57
2:B:995:ARG:O	2:B:999:MET:HB2	2.03	0.57
3:C:38:ALA:CA	3:C:164:ALA:HB3	2.35	0.57
6:F:100:GLN:NE2	7:G:66:GLY:CA	2.65	0.57
11:K:10:PHE:CD2	11:K:10:PHE:N	2.72	0.57
11:K:53:TYR:C	11:K:55:ASP:N	2.58	0.57
1:M:1210:THR:O	1:M:1214:VAL:HG23	2.05	0.57
1:M:225:PHE:CD1	1:M:232:PRO:HG3	2.39	0.57
1:M:801:VAL:CG1	1:M:809:LEU:HG	2.34	0.57
1:M:860:SER:HB3	1:M:1426:GLY:HA2	1.87	0.57
2:N:637:GLU:C	2:N:639:LYS:H	2.07	0.57
2:N:681:LEU:O	2:N:687:ILE:CG2	2.52	0.57
2:N:758:PHE:CE1	2:N:1027:ILE:HG22	2.39	0.57
2:N:892:LYS:O	2:N:899:ILE:HG23	2.05	0.57
3:O:38:ALA:CA	3:O:164:ALA:HB3	2.35	0.57
10:V:47:ARG:HH21	10:V:48:MET:HE1	1.69	0.57
1:A:1037:PHE:O	1:A:1039:LEU:N	2.37	0.57
1:A:317:GLN:OE1	1:A:321:ARG:HD3	2.05	0.57
1:A:801:VAL:HA	1:A:813:GLU:CG	2.33	0.57
2:B:758:PHE:CE1	2:B:1027:ILE:HG22	2.40	0.57
2:B:1116:ARG:CD	2:B:1198:TYR:CE1	2.88	0.57
2:B:860:MET:CG	2:B:965:LYS:HG2	2.35	0.57
2:B:882:THR:CG2	2:B:884:ARG:HB2	2.35	0.57
7:G:119:LEU:HD11	7:G:130:TYR:HB3	1.87	0.57
8:H:98:GLY:HA3	8:H:117:PHE:HA	1.86	0.57
10:J:1:MET:H1	10:J:55:LEU:N	2.00	0.57
1:M:854:ASP:O	1:M:1002:LEU:HD21	2.04	0.57
1:M:107:CYS:N	1:M:114:LEU:HD21	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1445:ASP:HB2	6:R:137:TYR:HE1	1.67	0.57
1:M:590:GLN:HG2	1:M:607:LEU:HD13	1.87	0.57
2:N:567:HIS:HA	2:N:584:ARG:NH2	2.18	0.57
2:N:586:PRO:HG2	2:N:610:ARG:NH2	2.20	0.57
2:N:798:TYR:CD1	10:V:4:PRO:HG3	2.39	0.57
2:N:860:MET:CG	2:N:965:LYS:HG2	2.35	0.57
4:D:120:THR:O	4:D:124:VAL:HG23	2.05	0.57
7:G:1:MET:HE1	7:G:80:LYS:HE3	1.87	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:770:MET:CG	1:M:771:VAL:N	2.68	0.57
2:N:1149:GLU:C	2:N:1153:GLU:HB2	2.16	0.57
2:N:950:ASP:O	2:N:951:GLN:HB2	2.03	0.57
4:P:50:ALA:HB1	4:P:143:ALA:HB2	1.86	0.57
1:A:1210:THR:O	1:A:1214:VAL:HG23	2.04	0.57
1:A:1319:VAL:HG12	1:A:1319:VAL:O	2.04	0.57
1:A:225:PHE:CD1	1:A:232:PRO:HG3	2.39	0.57
1:A:63:ARG:HA	1:A:74:MET:HE1	1.86	0.57
1:A:770:MET:CG	1:A:771:VAL:N	2.68	0.57
2:B:1096:ARG:HD2	2:B:1097:HIS:ND1	2.19	0.57
2:B:1182:CYS:O	2:B:1182:CYS:SG	2.63	0.57
2:B:1202:LEU:O	2:B:1206:GLU:HG3	2.05	0.57
2:B:116:TYR:HA	2:B:156:VAL:O	2.04	0.57
2:B:630:LEU:HD21	2:B:742:GLU:OE2	2.05	0.57
2:B:633:VAL:O	2:B:634:GLU:O	2.23	0.57
2:B:82:ILE:HG13	2:B:116:TYR:O	2.05	0.57
2:B:945:GLU:O	2:B:946:ASN:HB3	2.04	0.57
4:D:50:ALA:HB1	4:D:143:ALA:HB2	1.86	0.57
7:G:49:LEU:HD21	7:G:77:VAL:HG23	1.87	0.57
8:H:101:TYR:CE2	8:H:116:SER:HB2	2.40	0.57
9:I:95:THR:HG22	9:I:96:ASN:N	2.15	0.57
1:M:14:VAL:H	1:M:1435:GLN:HE22	1.51	0.57
1:M:316:LEU:CD2	1:M:322:PRO:HA	2.35	0.57
1:M:447:ARG:HB3	1:M:479:TYR:HB3	1.86	0.57
1:M:901:ASP:HA	1:M:927:GLN:HE22	1.69	0.57
2:N:216:VAL:HG12	2:N:229:ALA:HB2	1.86	0.57
2:N:480:THR:HG22	2:N:481:TYR:N	2.19	0.57
2:N:776:GLN:O	2:N:1095:LEU:HA	2.05	0.57
2:N:864:LYS:N	2:N:872:GLU:OE1	2.38	0.57
1:M:504:GLN:HE21	6:R:90:ARG:HH21	1.52	0.57
10:V:1:MET:H3	10:V:55:LEU:H	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1085:THR:HG22	1:A:1085:THR:O	2.05	0.57
1:A:225:PHE:CE2	1:A:232:PRO:HA	2.40	0.57
1:A:42:ASP:HB3	1:A:45:ARG:H	1.68	0.57
1:A:801:VAL:HG13	1:A:813:GLU:HB3	1.86	0.57
1:A:901:ASP:HA	1:A:927:GLN:HE22	1.70	0.57
1:A:941:ARG:HH11	1:A:941:ARG:HG2	1.70	0.57
3:C:148:ARG:HG2	3:C:149:ASN:N	2.19	0.57
8:H:94:TYR:HE2	8:H:96:MET:CG	2.18	0.57
10:J:1:MET:H3	10:J:55:LEU:H	1.51	0.57
1:M:898:TYR:CE2	1:M:1032:ARG:HD2	2.40	0.57
1:M:1226:LEU:HD11	1:M:1242:CYS:HB2	1.87	0.57
2:N:594:ARG:O	2:N:598:ARG:HG3	2.04	0.57
2:N:839:MET:CE	2:N:980:PHE:HB2	2.35	0.57
2:N:821:GLN:NE2	2:N:851:PHE:H	1.98	0.57
9:U:64:GLN:O	9:U:66:PRO:HD3	2.04	0.57
11:W:10:PHE:N	11:W:10:PHE:CD2	2.72	0.57
1:A:243:PRO:HB3	2:B:1209:ALA:HB2	1.85	0.56
2:B:1180:PHE:HB3	2:B:1191:ILE:CD1	2.32	0.56
2:B:586:PRO:HG2	2:B:610:ARG:NH2	2.19	0.56
2:B:839:MET:CE	2:B:980:PHE:HB2	2.35	0.56
2:B:864:LYS:N	2:B:872:GLU:OE1	2.38	0.56
10:J:52:HIS:CD2	10:J:53:VAL:N	2.73	0.56
5:Q:89:ILE:HG22	5:Q:118:SER:C	2.22	0.56
4:P:38:GLN:HB2	7:S:5:LYS:NZ	2.20	0.56
9:U:56:ALA:CB	9:U:89:GLN:HG3	2.35	0.56
10:V:23:ARG:C	10:V:25:LEU:H	2.09	0.56
1:A:318:LYS:O	1:A:319:SER:CB	2.52	0.56
1:A:591:ARG:HB3	1:A:606:MET:N	2.20	0.56
2:B:999:MET:CE	2:B:1011:ILE:HD11	2.35	0.56
2:B:480:THR:HG22	2:B:481:TYR:N	2.19	0.56
2:B:596:LEU:CD1	2:B:601:ALA:HB3	2.32	0.56
7:G:89:ALA:CB	7:G:103:VAL:HG22	2.34	0.56
1:M:565:ALA:HB2	1:M:577:GLN:CD	2.26	0.56
2:N:846:ILE:HG23	2:N:974:PRO:CG	2.33	0.56
4:P:67:ARG:C	4:P:69:ARG:H	2.08	0.56
8:T:15:VAL:HG22	8:T:26:ILE:CD1	2.35	0.56
8:T:40:LEU:HD22	8:T:122:MET:CE	2.33	0.56
10:V:52:HIS:CD2	10:V:53:VAL:N	2.73	0.56
1:A:1226:LEU:HD11	1:A:1242:CYS:HB2	1.87	0.56
1:A:710:THR:HB	1:A:713:GLU:CG	2.31	0.56
2:B:1117:GLN:NE2	2:B:1199:ALA:HB2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:280:ALA:HA	2:B:323:LEU:HD12	1.86	0.56
2:B:798:TYR:CD1	10:J:4:PRO:HG3	2.39	0.56
2:B:839:MET:HE3	2:B:1010:LEU:HD11	1.86	0.56
3:C:111:THR:O	3:C:147:LEU:HD23	2.04	0.56
3:C:257:ASN:O	3:C:261:GLU:N	2.36	0.56
9:I:106:CYS:SG	9:I:108:LYS:HB2	2.46	0.56
1:M:1085:THR:HG22	1:M:1085:THR:O	2.05	0.56
1:M:443:VAL:CG2	1:M:490:LEU:HD11	2.36	0.56
2:N:824:ILE:HG22	2:N:1087:PHE:CE2	2.40	0.56
2:N:945:GLU:O	2:N:946:ASN:HB3	2.04	0.56
5:Q:25:ARG:NH2	5:Q:132:GLU:OE1	2.37	0.56
5:Q:174:LEU:HD23	5:Q:175:PRO:CD	2.28	0.56
6:R:93:ILE:HD11	6:R:134:ILE:HD11	1.87	0.56
8:T:81:PRO:O	8:T:83:PRO:N	2.38	0.56
1:A:316:LEU:CD2	1:A:322:PRO:HA	2.35	0.56
1:A:788:PHE:HE1	1:A:797:SER:HA	1.69	0.56
2:B:393:HIS:O	2:B:395:GLY:N	2.39	0.56
2:B:811:TYR:N	2:B:811:TYR:CD1	2.73	0.56
1:M:116:ASP:OD2	1:M:165:ARG:HD2	2.05	0.56
1:M:40:ILE:CB	1:M:41:MET:HE2	2.09	0.56
1:M:848:ASP:HB3	1:M:1427:VAL:CG2	2.30	0.56
1:M:941:ARG:HG2	1:M:941:ARG:HH11	1.70	0.56
2:N:999:MET:CE	2:N:1011:ILE:HD11	2.35	0.56
2:N:1182:CYS:SG	2:N:1182:CYS:O	2.63	0.56
2:N:514:LEU:HB3	2:N:626:VAL:CG1	2.34	0.56
3:O:113:VAL:O	3:O:144:LEU:HB2	2.05	0.56
1:A:568:LYS:CB	8:H:95:VAL:H	2.16	0.56
2:B:1132:GLU:O	2:B:1135:ARG:HB3	2.05	0.56
2:B:304:GLU:O	2:B:307:LYS:HB2	2.06	0.56
2:B:824:ILE:HG12	10:J:47:ARG:HH12	1.69	0.56
2:B:882:THR:HG21	2:B:935:ARG:HA	1.87	0.56
3:C:115:SER:HB3	3:C:142:ILE:CG1	2.35	0.56
3:C:242:GLN:C	3:C:244:PHE:H	2.08	0.56
9:I:56:ALA:CB	9:I:89:GLN:HG3	2.35	0.56
1:M:1316:LEU:HD23	1:M:1341:VAL:CG2	2.34	0.56
1:M:1319:VAL:O	1:M:1319:VAL:HG12	2.04	0.56
1:M:225:PHE:CE2	1:M:232:PRO:HA	2.40	0.56
1:M:447:ARG:CD	1:M:481:ALA:HB2	2.35	0.56
1:M:771:VAL:HA	1:M:823:GLU:CD	2.25	0.56
1:M:911:PRO:N	1:M:917:ALA:HB1	2.19	0.56
2:N:1162:VAL:CG1	2:N:1163:CYS:N	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:393:HIS:O	2:N:395:GLY:N	2.39	0.56
2:N:637:GLU:OE2	2:N:639:LYS:HB2	2.04	0.56
2:N:976:ILE:O	2:N:976:ILE:HG22	2.04	0.56
7:S:49:LEU:HD23	7:S:49:LEU:N	2.21	0.56
8:T:101:TYR:HE2	8:T:116:SER:HB2	1.71	0.56
10:V:10:CYS:SG	10:V:42:ARG:NH2	2.79	0.56
2:B:892:LYS:O	2:B:899:ILE:HG23	2.05	0.56
7:G:13:LEU:HD22	7:G:14:HIS:O	2.06	0.56
10:J:10:CYS:SG	10:J:42:ARG:NH2	2.79	0.56
12:L:30:LYS:HG3	12:L:41:SER:CB	2.36	0.56
1:M:671:ILE:HG23	1:M:806:LEU:CD2	2.36	0.56
1:M:76:GLU:OE2	2:N:1159:ARG:NH1	2.38	0.56
2:N:224:PRO:HG2	2:N:225:ILE:HD12	1.85	0.56
2:N:882:THR:CG2	2:N:884:ARG:HB2	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
2:B:422:TYR:HA	2:B:425:MET:HE3	1.86	0.56
2:B:882:THR:HG22	2:B:884:ARG:N	2.20	0.56
3:C:97:VAL:C	3:C:98:LEU:HD23	2.26	0.56
4:D:141:GLU:O	4:D:143:ALA:N	2.39	0.56
1:A:858:ARG:CZ	6:F:139:PRO:HG3	2.36	0.56
8:H:15:VAL:HG22	8:H:26:ILE:CD1	2.35	0.56
8:H:88:LEU:C	8:H:90:ASP:N	2.58	0.56
1:M:1215:ALA:CB	1:M:1230:TRP:CZ3	2.88	0.56
1:M:346:VAL:HG11	2:N:1130:PHE:CG	2.31	0.56
2:N:1103:ILE:HG23	2:N:1103:ILE:O	2.06	0.56
2:N:1115:THR:O	2:N:1198:TYR:CG	2.59	0.56
2:N:744:HIS:CG	2:N:745:PRO:HD2	2.41	0.56
3:O:213:PRO:O	3:O:214:LYS:HB2	2.06	0.56
3:O:97:VAL:C	3:O:98:LEU:HD23	2.26	0.56
1:A:1215:ALA:CB	1:A:1230:TRP:CZ3	2.89	0.56
1:A:1286:TYR:CG	1:A:1287:MET:N	2.74	0.56
1:A:1339:LEU:CB	1:A:1347:THR:CB	2.83	0.56
1:A:1447:MET:HA	7:G:60:ARG:CA	2.32	0.56
1:A:802:GLU:N	1:A:813:GLU:OE1	2.38	0.56
1:A:842:LEU:O	1:A:846:LEU:HG	2.06	0.56
2:B:549:ASN:O	2:B:551:LEU:N	2.39	0.56
7:G:49:LEU:N	7:G:49:LEU:HD23	2.21	0.56
9:I:74:GLU:O	9:I:74:GLU:HG3	2.06	0.56
11:K:42:LEU:HD23	11:K:42:LEU:O	2.05	0.56
1:M:346:VAL:CG2	1:M:491:HIS:HE1	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:406:VAL:HG12	1:M:414:ILE:HD12	1.88	0.56
1:M:547:VAL:HG21	1:M:573:TRP:CE3	2.41	0.56
1:M:591:ARG:HB3	1:M:606:MET:N	2.20	0.56
1:M:788:PHE:HE1	1:M:797:SER:HA	1.69	0.56
2:N:101:PRO:HG3	2:N:172:LEU:HD21	1.88	0.56
2:N:1132:GLU:O	2:N:1135:ARG:HB3	2.05	0.56
2:N:1202:LEU:O	2:N:1206:GLU:HG3	2.05	0.56
2:N:811:TYR:N	2:N:811:TYR:CD1	2.73	0.56
2:N:834:ASN:HB3	2:N:840:ILE:HG13	1.86	0.56
2:N:918:ILE:HD12	2:N:935:ARG:NH1	2.19	0.56
9:U:106:CYS:SG	9:U:108:LYS:HB2	2.46	0.56
1:A:1257:ALA:O	1:A:1258:GLU:HB2	2.04	0.56
1:A:231:ARG:HG3	1:A:234:TRP:CH2	2.41	0.56
1:A:493:PRO:HB2	1:A:498:THR:HG22	1.88	0.56
2:B:1207:LEU:HD13	2:B:1212:ILE:HG21	1.87	0.56
5:E:146:HIS:HB3	5:E:149:VAL:CG2	2.33	0.56
7:G:1:MET:SD	7:G:1:MET:O	2.64	0.56
8:H:142:LEU:HD12	8:H:142:LEU:N	2.20	0.56
1:M:1393:ASN:OD1	1:M:1402:ARG:HA	2.05	0.56
1:M:320:GLY:HA3	2:N:464:LYS:CA	2.14	0.56
1:M:39:GLU:O	1:M:53:LEU:HB3	2.05	0.56
4:P:53:LEU:CD2	4:P:108:TYR:HE2	2.18	0.56
4:P:120:THR:O	4:P:124:VAL:HG23	2.05	0.56
2:N:824:ILE:HG12	10:V:47:ARG:HH12	1.69	0.56
11:W:53:TYR:C	11:W:55:ASP:N	2.58	0.56
1:A:73:GLY:O	1:A:75:ALA:N	2.38	0.56
7:G:34:VAL:CG1	7:G:45:ILE:HG21	2.29	0.56
1:A:790:LYS:HG3	9:I:67:THR:O	2.06	0.56
1:M:1166:GLU:O	1:M:1168:ASP:N	2.39	0.56
1:M:1286:TYR:CG	1:M:1287:MET:N	2.74	0.56
1:M:392:TYR:HA	1:M:395:ASN:HD22	1.71	0.56
1:M:542:ILE:HD13	1:M:550:MET:HE1	1.87	0.56
1:M:69:THR:O	1:M:71:GLY:N	2.35	0.56
1:M:786:PRO:HB2	2:N:700:ILE:HD12	1.88	0.56
4:P:141:GLU:O	4:P:143:ALA:N	2.39	0.56
7:S:1:MET:O	7:S:1:MET:SD	2.64	0.56
1:A:116:ASP:OD2	1:A:165:ARG:HD2	2.06	0.56
1:A:200:ARG:CB	1:A:200:ARG:HH11	2.19	0.56
1:A:406:VAL:HG12	1:A:414:ILE:HD12	1.88	0.56
1:A:443:VAL:CG2	1:A:490:LEU:HD11	2.36	0.56
1:A:941:ARG:O	1:A:945:ARG:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1029:CYS:SG	2:B:1088:GLY:HA3	2.45	0.56
2:B:519:GLU:HA	2:B:771:SER:HB3	1.88	0.56
2:B:514:LEU:HB3	2:B:626:VAL:CG1	2.34	0.56
2:B:744:HIS:CG	2:B:745:PRO:HD2	2.41	0.56
2:B:776:GLN:O	2:B:1095:LEU:HA	2.05	0.56
6:F:93:ILE:HD11	6:F:134:ILE:HD11	1.87	0.56
9:I:106:CYS:O	9:I:107:LYS:CB	2.54	0.56
1:M:459:HIS:CE1	1:M:508:VAL:HG21	2.41	0.56
1:M:538:ARG:HD2	8:T:20:TYR:HE1	1.71	0.56
1:M:73:GLY:O	1:M:75:ALA:N	2.38	0.56
1:M:896:LYS:O	1:M:896:LYS:HG2	2.06	0.56
2:N:1004:GLU:HB2	2:N:1006:ILE:CG1	2.36	0.56
2:N:1029:CYS:SG	2:N:1088:GLY:HA3	2.45	0.56
2:N:630:LEU:HD21	2:N:742:GLU:OE2	2.05	0.56
8:T:101:TYR:CE2	8:T:116:SER:HB2	2.40	0.56
10:V:47:ARG:HE	10:V:48:MET:CE	2.18	0.56
1:A:1412:LEU:O	1:A:1415:ALA:HB3	2.05	0.55
1:A:739:LYS:CB	1:A:741:LEU:HD23	2.26	0.55
1:A:342:MET:HE3	1:A:844:LYS:NZ	2.21	0.55
2:B:1117:GLN:HE21	2:B:1199:ALA:HB2	1.70	0.55
2:B:606:VAL:HG13	2:B:620:PHE:O	2.06	0.55
4:D:53:LEU:CD2	4:D:108:TYR:HE2	2.18	0.55
1:A:538:ARG:HD2	8:H:20:TYR:HE1	1.71	0.55
8:H:40:LEU:HD22	8:H:122:MET:CE	2.33	0.55
12:L:40:PHE:O	12:L:41:SER:CB	2.53	0.55
1:M:493:PRO:HB2	1:M:498:THR:HG22	1.88	0.55
1:M:542:ILE:HG22	1:M:547:VAL:HG23	1.88	0.55
3:O:74:GLU:O	3:O:246:ARG:NH2	2.30	0.55
7:S:145:LEU:CG	7:S:146:LYS:N	2.69	0.55
8:T:94:TYR:HE2	8:T:96:MET:CG	2.18	0.55
1:A:1344:ILE:HD12	1:A:1382:GLY:O	2.06	0.55
2:B:1129:ARG:HG2	2:B:1131:GLY:N	2.17	0.55
2:B:1162:VAL:CG1	2:B:1163:CYS:N	2.68	0.55
2:B:101:PRO:HG3	2:B:172:LEU:HD21	1.88	0.55
2:B:12:ILE:HD11	2:B:647:ILE:C	2.27	0.55
3:C:113:VAL:O	3:C:144:LEU:HB2	2.05	0.55
4:D:67:ARG:C	4:D:69:ARG:H	2.08	0.55
1:A:790:LYS:HE3	9:I:67:THR:OG1	2.07	0.55
1:M:102:VAL:HG11	1:M:212:PHE:CE2	2.41	0.55
1:M:231:ARG:HG3	1:M:234:TRP:CH2	2.41	0.55
1:M:336:ARG:CA	1:M:340:ASN:HD22	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:790:LYS:HG3	9:U:67:THR:O	2.06	0.55
2:N:593:MET:O	2:N:602:ILE:HD11	2.05	0.55
2:N:831:SER:HB3	2:N:994:TYR:OH	2.05	0.55
8:T:142:LEU:HD12	8:T:142:LEU:N	2.20	0.55
2:B:567:HIS:HA	2:B:584:ARG:NH2	2.18	0.55
3:C:213:PRO:O	3:C:214:LYS:HB2	2.06	0.55
5:E:25:ARG:NH2	5:E:132:GLU:OE1	2.37	0.55
12:L:63:THR:HG22	12:L:64:LYS:H	1.71	0.55
1:M:1412:LEU:O	1:M:1415:ALA:HB3	2.05	0.55
1:M:107:CYS:HA	1:M:172:GLN:OE1	2.06	0.55
1:M:56:PRO:O	1:M:57:LYS:CG	2.54	0.55
1:M:911:PRO:CB	1:M:917:ALA:HB1	2.22	0.55
1:M:320:GLY:N	2:N:464:LYS:HG2	2.20	0.55
2:N:606:VAL:HG13	2:N:620:PHE:O	2.06	0.55
2:N:519:GLU:CD	2:N:752:ALA:HB2	2.27	0.55
2:N:882:THR:HG21	2:N:935:ARG:HA	1.87	0.55
1:M:858:ARG:CZ	6:R:139:PRO:HG3	2.36	0.55
7:S:94:VAL:CA	7:S:94:VAL:CG2	2.78	0.55
12:X:63:THR:HG22	12:X:64:LYS:H	1.71	0.55
1:A:342:MET:HE3	1:A:844:LYS:HZ1	1.71	0.55
1:A:989:ILE:CG1	1:A:990:HIS:H	2.18	0.55
2:B:1103:ILE:O	2:B:1103:ILE:HG23	2.06	0.55
2:B:12:ILE:CG2	2:B:652:ILE:HD11	2.36	0.55
2:B:279:ARG:HA	2:B:283:VAL:O	2.07	0.55
1:A:786:PRO:HB2	2:B:700:ILE:HD12	1.88	0.55
2:B:860:MET:HG3	2:B:965:LYS:HG2	1.89	0.55
3:C:161:LYS:O	3:C:170:TRP:NE1	2.40	0.55
3:C:74:GLU:O	3:C:246:ARG:NH2	2.30	0.55
8:H:62:SER:OG	8:H:63:LEU:HG	2.06	0.55
2:B:384:GLU:O	9:I:90:GLN:HA	2.07	0.55
1:M:373:LYS:HA	1:M:436:HIS:CE1	2.42	0.55
1:M:591:ARG:HH22	1:M:621:LYS:HB3	1.68	0.55
1:M:956:TRP:HB3	1:M:957:PRO:HD2	1.88	0.55
2:N:1151:LEU:CD1	2:N:1151:LEU:N	2.70	0.55
2:N:549:ASN:O	2:N:551:LEU:N	2.39	0.55
2:N:637:GLU:HB2	2:N:641:ASN:O	2.05	0.55
3:O:161:LYS:O	3:O:170:TRP:NE1	2.40	0.55
4:P:54:SER:HB3	4:P:113:ALA:HB1	1.89	0.55
6:R:82:THR:HG22	6:R:84:TYR:N	2.10	0.55
12:X:40:PHE:O	12:X:41:SER:CB	2.54	0.55
1:A:1281:GLY:O	1:A:1313:GLY:HA3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:565:ALA:HB2	1:A:577:GLN:CD	2.26	0.55
1:A:56:PRO:O	1:A:57:LYS:CG	2.54	0.55
2:B:458:ASN:N	2:B:458:ASN:HD22	2.03	0.55
2:B:637:GLU:HB2	2:B:641:ASN:O	2.06	0.55
2:B:785:TYR:HA	2:B:788:ARG:HG3	1.89	0.55
6:F:92:ARG:HH21	7:G:63:PRO:HG3	1.71	0.55
1:M:790:LYS:HE3	9:U:67:THR:OG1	2.07	0.55
2:N:231:ILE:HG23	2:N:231:ILE:O	2.07	0.55
7:S:13:LEU:HD22	7:S:14:HIS:O	2.06	0.55
9:U:106:CYS:O	9:U:107:LYS:CB	2.54	0.55
11:W:65:HIS:HD2	11:W:67:LEU:H	1.54	0.55
1:A:102:VAL:HG11	1:A:212:PHE:CE2	2.41	0.55
1:A:1122:LEU:CD1	1:A:1122:LEU:N	2.69	0.55
1:A:333:LYS:O	1:A:334:GLU:CB	2.52	0.55
1:A:459:HIS:CE1	1:A:508:VAL:HG21	2.41	0.55
1:A:656:TYR:O	1:A:659:LEU:HB3	2.07	0.55
2:B:519:GLU:CD	2:B:752:ALA:HB2	2.27	0.55
1:M:1148:VAL:HG11	1:M:1209:LEU:HD12	1.88	0.55
1:M:656:TYR:O	1:M:659:LEU:HB3	2.07	0.55
1:M:859:ASN:C	1:M:859:ASN:ND2	2.60	0.55
1:M:989:ILE:CG1	1:M:990:HIS:H	2.18	0.55
2:N:458:ASN:HD22	2:N:458:ASN:N	2.03	0.55
7:S:49:LEU:HD21	7:S:77:VAL:HG23	1.88	0.55
1:A:12:ARG:HG3	2:B:1192:TYR:HD2	1.72	0.55
1:A:53:LEU:CD2	1:A:54:ASN:N	2.57	0.55
1:A:547:VAL:HG21	1:A:573:TRP:CE3	2.41	0.55
1:A:769:GLN:HG3	1:A:816:PHE:C	2.26	0.55
1:A:858:ARG:HA	1:A:865:ILE:HD12	1.89	0.55
1:A:896:LYS:O	1:A:896:LYS:HG2	2.06	0.55
2:B:1004:GLU:HB2	2:B:1006:ILE:CG1	2.35	0.55
2:B:1021:MET:O	2:B:1023:VAL:HG23	2.07	0.55
2:B:871:VAL:HG12	2:B:872:GLU:N	2.22	0.55
8:H:58:THR:HG22	8:H:59:LEU:H	1.72	0.55
10:J:23:ARG:C	10:J:25:LEU:H	2.09	0.55
1:M:1122:LEU:CD1	1:M:1122:LEU:N	2.69	0.55
1:M:130:ASP:O	1:M:132:LYS:N	2.40	0.55
1:M:1393:ASN:C	1:M:1402:ARG:HG2	2.27	0.55
1:M:148:CYS:O	1:M:169:GLY:HA2	2.07	0.55
1:M:843:VAL:C	1:M:845:ALA:H	2.10	0.55
1:M:941:ARG:O	1:M:945:ARG:HG3	2.06	0.55
8:T:58:THR:HG22	8:T:59:LEU:H	1.72	0.55

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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	0.55
1:A:1075:GLY:O	1:A:1078:ALA:HB3	2.07	0.55
1:A:1453:LEU:O	7:G:19:GLY:O	2.25	0.55
1:A:148:CYS:O	1:A:169:GLY:HA2	2.07	0.55
1:A:281:GLU:HG2	1:A:290:ILE:HD13	1.89	0.55
1:A:476:THR:CG2	1:A:477:SER:N	2.70	0.55
1:A:90:VAL:HG12	1:A:91:PHE:N	2.22	0.55
2:B:206:GLN:HE22	2:B:492:ASN:CB	2.15	0.55
2:B:466:MET:CE	2:B:467:SER:HA	2.37	0.55
2:B:491:THR:HG22	2:B:530:LYS:N	2.20	0.55
2:B:878:THR:O	2:B:879:ARG:C	2.45	0.55
4:D:54:SER:HB3	4:D:113:ALA:HB1	1.89	0.55
8:H:101:TYR:HE2	8:H:116:SER:HB2	1.70	0.55
1:M:1163:THR:HG22	1:M:1164:VAL:H	1.72	0.55
1:M:1344:ILE:HD12	1:M:1382:GLY:O	2.06	0.55
1:M:361:GLU:HB2	1:M:364:GLN:HG3	1.89	0.55
1:M:842:LEU:O	1:M:846:LEU:HG	2.06	0.55
3:O:167:HIS:CD2	3:O:168:ALA:N	2.75	0.55
1:M:1343:GLY:HA3	5:Q:183:VAL:HG23	1.89	0.55
8:T:12:VAL:CG2	8:T:53:ASP:HB2	2.37	0.55
1:A:1021:GLN:CA	1:A:1021:GLN:CG	2.76	0.55
1:A:107:CYS:HA	1:A:172:GLN:OE1	2.06	0.55
1:A:591:ARG:HG3	1:A:591:ARG:NH1	2.21	0.55
1:A:590:GLN:HG2	1:A:607:LEU:HD13	1.87	0.55
1:A:801:VAL:HG11	1:A:809:LEU:HD11	1.89	0.55
1:A:956:TRP:HB3	1:A:957:PRO:HD2	1.88	0.55
3:C:212:PRO:HB3	3:C:213:PRO:HD2	1.89	0.55
7:G:145:LEU:CG	7:G:146:LYS:N	2.69	0.55
1:M:12:ARG:HG3	2:N:1192:TYR:HD2	1.72	0.55
1:M:1281:GLY:O	1:M:1313:GLY:HA3	2.07	0.55
1:M:858:ARG:HA	1:M:865:ILE:HD12	1.89	0.55
2:N:12:ILE:CG2	2:N:652:ILE:HD11	2.36	0.55
2:N:279:ARG:HA	2:N:283:VAL:O	2.06	0.55
2:N:304:GLU:O	2:N:307:LYS:HB2	2.06	0.55
2:N:509:ASN:ND2	2:N:509:ASN:N	2.43	0.55
3:O:242:GLN:C	3:O:244:PHE:H	2.08	0.55
8:T:98:GLY:HA3	8:T:117:PHE:HA	1.87	0.55
9:U:74:GLU:HG3	9:U:74:GLU:O	2.06	0.55
1:A:1268:ALA:C	1:A:1270:MET:H	2.11	0.55
1:A:130:ASP:O	1:A:132:LYS:N	2.40	0.55
1:A:1337:GLU:O	1:A:1340:SER:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:ARG:CA	1:A:340:ASN:HD22	2.15	0.55
1:A:392:TYR:HA	1:A:395:ASN:HD22	1.71	0.55
2:B:1079:LYS:HA	3:C:26:LEU:HD21	1.89	0.55
2:B:1115:THR:O	2:B:1116:ARG:CB	2.55	0.55
2:B:1168:LEU:HD13	2:B:1208:MET:CE	2.37	0.55
5:E:160:LYS:C	5:E:162:GLN:H	2.09	0.55
8:H:80:PRO:CB	8:H:81:PRO:CD	2.85	0.55
10:J:13:VAL:O	10:J:14:VAL:CG2	2.55	0.55
1:M:591:ARG:HG3	1:M:591:ARG:NH1	2.21	0.55
2:N:286:ASP:H	9:U:12:ASN:ND2	2.05	0.55
2:N:550:PHE:HD2	2:N:550:PHE:O	1.90	0.55
2:N:704:PRO:HG2	2:N:705:GLU:H	1.72	0.55
4:P:53:LEU:H	4:P:147:SER:HB3	1.72	0.55
5:Q:160:LYS:C	5:Q:162:GLN:H	2.09	0.55
9:U:5:ARG:HD3	9:U:36:GLU:OE2	2.06	0.55
1:M:370:SER:HB3	11:W:2:ASN:HD21	1.72	0.55
11:W:29:ASN:O	11:W:76:GLN:HG3	2.07	0.55
1:A:1352:TYR:O	1:A:1355:ILE:HG22	2.07	0.54
1:A:715:PHE:O	1:A:719:VAL:HG23	2.07	0.54
2:B:1007:VAL:HG22	2:B:1008:PRO:CD	2.27	0.54
7:G:14:HIS:HD2	7:G:16:SER:HB3	1.71	0.54
10:J:47:ARG:HE	10:J:48:MET:CE	2.18	0.54
1:M:504:GLN:NE2	6:R:90:ARG:NH2	2.53	0.54
1:M:90:VAL:HG12	1:M:91:PHE:N	2.22	0.54
2:N:1115:THR:O	2:N:1116:ARG:CB	2.55	0.54
2:N:878:THR:O	2:N:879:ARG:C	2.45	0.54
7:S:114:LEU:HB3	7:S:162:SER:HB3	1.89	0.54
1:A:361:GLU:HB2	1:A:364:GLN:HG3	1.89	0.54
1:A:444:LEU:CD1	1:A:456:MET:HB3	2.27	0.54
1:A:542:ILE:HG22	1:A:547:VAL:HG23	1.88	0.54
1:A:859:ASN:C	1:A:859:ASN:ND2	2.60	0.54
1:A:934:TYR:O	1:A:938:VAL:HG23	2.06	0.54
2:B:824:ILE:HG22	2:B:1087:PHE:CE2	2.40	0.54
2:B:202:VAL:CG2	2:B:476:LEU:HD13	2.36	0.54
7:G:94:VAL:CA	7:G:94:VAL:CG1	2.78	0.54
1:M:1268:ALA:C	1:M:1270:MET:H	2.11	0.54
1:M:1339:LEU:CB	1:M:1347:THR:CB	2.83	0.54
1:M:667:ILE:HD12	1:M:667:ILE:N	2.22	0.54
8:T:111:ILE:HG22	8:T:112:LYS:N	2.23	0.54
1:A:1268:ALA:C	1:A:1270:MET:N	2.61	0.54
1:A:373:LYS:HA	1:A:436:HIS:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:787:HIS:HD2	2:B:700:ILE:HB	1.71	0.54
1:A:671:ILE:HG23	1:A:806:LEU:CD2	2.36	0.54
1:A:897:ARG:HD3	1:A:898:TYR:CE1	2.43	0.54
1:A:344:LYS:HE3	2:B:1151:LEU:CA	2.38	0.54
2:B:1151:LEU:N	2:B:1151:LEU:CD1	2.70	0.54
2:B:778:MET:HE3	2:B:1094:ARG:HD3	1.90	0.54
3:C:251:LEU:HD11	11:K:45:LEU:CD2	2.38	0.54
3:C:96:VAL:CG1	3:C:98:LEU:HD21	2.38	0.54
4:D:53:LEU:H	4:D:147:SER:HB3	1.73	0.54
5:E:16:ARG:HH11	5:E:16:ARG:HG3	1.72	0.54
6:F:99:LEU:HD11	7:G:65:SER:O	2.07	0.54
8:H:12:VAL:CG2	8:H:53:ASP:HB2	2.37	0.54
9:I:65:ASP:HB3	9:I:68:LEU:HD12	1.89	0.54
1:M:200:ARG:CB	1:M:200:ARG:HH11	2.19	0.54
1:M:281:GLU:HG2	1:M:290:ILE:HD13	1.88	0.54
1:M:710:THR:HB	1:M:713:GLU:CG	2.32	0.54
2:N:202:VAL:CG2	2:N:476:LEU:HD13	2.36	0.54
2:N:33:GLN:HB2	2:N:401:LEU:HD21	1.89	0.54
2:N:12:ILE:HD11	2:N:647:ILE:C	2.27	0.54
2:N:821:GLN:HE22	2:N:851:PHE:N	2.00	0.54
2:N:871:VAL:HG12	2:N:872:GLU:N	2.22	0.54
7:S:119:LEU:HD11	7:S:130:TYR:HB3	1.87	0.54
9:U:65:ASP:HB3	9:U:68:LEU:HD12	1.89	0.54
1:A:1096:VAL:HG13	1:A:1115:THR:CG2	2.36	0.54
1:A:1427:VAL:O	1:A:1431:VAL:HG23	2.07	0.54
1:A:402:GLY:C	1:A:436:HIS:CD2	2.81	0.54
1:A:549:ASN:HA	11:K:60:ALA:HB1	1.90	0.54
2:B:231:ILE:HG23	2:B:231:ILE:O	2.07	0.54
3:C:47:LEU:CB	3:C:158:ILE:HG21	2.20	0.54
4:D:108:TYR:CD2	4:D:108:TYR:C	2.80	0.54
4:D:114:ARG:C	4:D:115:PHE:CD1	2.81	0.54
1:A:1453:LEU:HG	7:G:19:GLY:O	2.08	0.54
11:K:91:CYS:O	11:K:94:ILE:HB	2.08	0.54
1:M:1096:VAL:HG13	1:M:1115:THR:CG2	2.36	0.54
1:M:1287:MET:HG2	1:M:1309:LEU:CD2	2.38	0.54
1:M:476:THR:CG2	1:M:477:SER:N	2.70	0.54
2:N:847:ASP:HB3	3:O:167:HIS:CD2	2.43	0.54
3:O:212:PRO:HB3	3:O:213:PRO:HD2	1.89	0.54
1:A:1241:ARG:NH2	1:A:1243:ARG:HH22	2.02	0.54
1:A:316:LEU:HD22	1:A:320:GLY:O	2.08	0.54
1:A:561:VAL:CG2	8:H:77:SER:HB2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:843:VAL:C	1:A:845:ALA:H	2.10	0.54
1:A:346:VAL:HG11	2:B:1130:PHE:HB2	1.85	0.54
2:B:828:ALA:O	2:B:834:ASN:ND2	2.40	0.54
5:E:41:PHE:HZ	5:E:57:MET:HE1	1.72	0.54
7:G:74:TYR:H	7:G:74:TYR:HD2	1.56	0.54
9:I:5:ARG:HD3	9:I:36:GLU:OE2	2.06	0.54
1:M:1427:VAL:O	1:M:1431:VAL:HG23	2.08	0.54
1:M:344:LYS:HE3	2:N:1151:LEU:CA	2.38	0.54
1:M:448:GLN:HA	1:M:449:PRO:C	2.27	0.54
1:M:715:PHE:O	1:M:719:VAL:HG23	2.07	0.54
2:N:1168:LEU:HD13	2:N:1208:MET:CE	2.37	0.54
2:N:458:ASN:ND2	2:N:458:ASN:N	2.55	0.54
2:N:828:ALA:O	2:N:834:ASN:ND2	2.40	0.54
1:M:255:GLU:HB2	2:N:935:ARG:CZ	2.26	0.54
5:Q:134:PHE:HD2	5:Q:139:LEU:HD21	1.72	0.54
1:A:1232:GLU:O	1:A:1234:ASN:N	2.40	0.54
1:A:1343:GLY:O	1:A:1345:GLU:N	2.41	0.54
1:A:244:PRO:O	1:A:247:VAL:HB	2.07	0.54
1:A:472:ASN:OD1	1:A:473:LEU:N	2.40	0.54
1:A:988:ILE:HG22	1:A:989:ILE:N	2.23	0.54
2:B:166:ARG:HG3	2:B:166:ARG:NH1	2.22	0.54
2:B:33:GLN:HB2	2:B:401:LEU:HD21	1.90	0.54
2:B:975:GLN:O	2:B:977:GLY:N	2.40	0.54
3:C:167:HIS:CD2	3:C:168:ALA:N	2.75	0.54
7:G:39:THR:O	7:G:43:GLY:N	2.32	0.54
4:D:7:THR:CB	7:G:42:PHE:HE2	2.21	0.54
1:M:850:MET:HE1	1:M:1063:GLY:HA2	1.89	0.54
1:M:1076:GLU:C	1:M:1078:ALA:H	2.10	0.54
1:M:1376:ASP:HA	1:M:1379:THR:CG2	2.38	0.54
1:M:472:ASN:OD1	1:M:473:LEU:N	2.40	0.54
1:M:549:ASN:HA	11:W:60:ALA:HB1	1.90	0.54
1:M:667:ILE:CD1	1:M:668:GLY:H	2.21	0.54
1:M:897:ARG:HD3	1:M:898:TYR:CE1	2.43	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:860:MET:HG3	2:N:965:LYS:HG2	1.88	0.54
2:N:1079:LYS:HA	3:O:26:LEU:HD21	1.89	0.54
4:P:108:TYR:C	4:P:108:TYR:CD2	2.80	0.54
4:P:114:ARG:C	4:P:115:PHE:CD1	2.81	0.54
4:P:7:THR:CB	7:S:42:PHE:HE2	2.21	0.54
7:S:132:SER:HB3	7:S:135:GLU:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:561:VAL:CG2	8:T:77:SER:HB2	2.38	0.54
1:A:1148:VAL:HG11	1:A:1209:LEU:HD12	1.88	0.54
1:A:1287:MET:HG2	1:A:1309:LEU:CD2	2.38	0.54
1:A:1376:ASP:HA	1:A:1379:THR:CG2	2.38	0.54
2:B:184:LYS:CD	2:B:787:VAL:HG11	2.38	0.54
1:M:1222:PHE:O	1:M:1223:SER:HB2	2.08	0.54
1:M:1232:GLU:O	1:M:1234:ASN:N	2.40	0.54
2:N:1156:ASP:O	2:N:1157:ALA:HB3	2.07	0.54
2:N:519:GLU:HA	2:N:771:SER:HB3	1.88	0.54
2:N:573:ILE:CG2	2:N:581:GLY:O	2.56	0.54
1:M:787:HIS:HD2	2:N:700:ILE:HB	1.71	0.54
2:N:797:TYR:HE1	2:N:854:LEU:HD23	1.73	0.54
3:O:251:LEU:HD11	11:W:45:LEU:CD2	2.38	0.54
12:X:60:LYS:O	12:X:61:ALA:O	2.26	0.54
1:A:1076:GLU:C	1:A:1078:ALA:H	2.10	0.54
2:B:244:THR:HG22	2:B:245:MET:N	2.23	0.54
2:B:466:MET:HE3	2:B:467:SER:HA	1.89	0.54
2:B:745:PRO:C	2:B:747:MET:H	2.12	0.54
2:B:92:ALA:O	2:B:93:ASP:CB	2.55	0.54
3:C:252:GLN:CG	11:K:95:ILE:HG23	2.38	0.54
7:G:89:ALA:CB	7:G:103:VAL:N	2.71	0.54
10:J:52:HIS:HD2	10:J:53:VAL:N	2.06	0.54
11:K:65:HIS:HD2	11:K:67:LEU:H	1.54	0.54
1:M:1439:MET:O	1:M:1440:GLY:C	2.46	0.54
1:M:1445:ASP:OD2	6:R:137:TYR:OH	2.21	0.54
1:M:316:LEU:HD22	1:M:320:GLY:O	2.08	0.54
2:N:1021:MET:O	2:N:1023:VAL:HG23	2.07	0.54
10:V:13:VAL:O	10:V:14:VAL:CG2	2.55	0.54
1:A:983:LEU:HD12	1:A:1034:LEU:HD21	1.90	0.54
2:B:630:LEU:HD22	2:B:742:GLU:HA	1.90	0.54
2:B:797:TYR:HE1	2:B:854:LEU:HD23	1.73	0.54
5:E:156:SER:C	5:E:158:GLY:N	2.62	0.54
7:G:132:SER:HB3	7:G:135:GLU:H	1.73	0.54
12:L:60:LYS:O	12:L:61:ALA:O	2.26	0.54
1:M:1084:ASN:HB3	1:M:1086:PHE:CD1	2.41	0.54
1:M:267:LEU:CD2	1:M:304:TYR:CE1	2.91	0.54
1:M:402:GLY:C	1:M:436:HIS:CD2	2.80	0.54
1:M:988:ILE:HG22	1:M:989:ILE:N	2.23	0.54
2:N:381:CYS:C	2:N:383:LEU:H	2.11	0.54
2:N:573:ILE:HG23	2:N:581:GLY:O	2.08	0.54
2:N:782:LEU:HB3	2:N:784:ASN:OD1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:77:LEU:HA	5:Q:106:THR:HB	1.90	0.54
7:S:153:ASP:HB3	7:S:156:GLU:O	2.08	0.54
1:A:226:ASN:ND2	1:A:229:TYR:H	2.04	0.54
1:A:267:LEU:CD2	1:A:304:TYR:CE1	2.91	0.54
1:A:312:GLN:O	1:A:313:PRO:C	2.46	0.54
1:A:370:SER:HB3	11:K:2:ASN:HD21	1.72	0.54
1:A:448:GLN:HA	1:A:449:PRO:C	2.28	0.54
3:C:114:TYR:CD2	3:C:140:GLN:HB2	2.43	0.54
2:B:847:ASP:HB3	3:C:167:HIS:CD2	2.43	0.54
1:A:1448:ILE:HG23	7:G:61:ILE:HD11	1.90	0.54
8:H:61:ASN:HB3	8:H:138:ASN:HB3	1.90	0.54
1:M:352:THR:HG21	2:N:1103:ILE:CD1	2.38	0.54
1:M:772:GLU:C	1:M:1086:PHE:CE2	2.82	0.54
2:N:157:HIS:C	2:N:158:ILE:HG13	2.28	0.54
2:N:318:ASP:OD2	2:N:320:GLU:HB2	2.08	0.54
2:N:466:MET:CE	2:N:467:SER:HA	2.37	0.54
2:N:975:GLN:O	2:N:977:GLY:N	2.40	0.54
5:Q:156:SER:C	5:Q:158:GLY:N	2.62	0.54
5:Q:16:ARG:HG3	5:Q:16:ARG:HH11	1.72	0.54
8:T:62:SER:OG	8:T:63:LEU:HG	2.06	0.54
10:V:52:HIS:HD2	10:V:53:VAL:N	2.06	0.54
1:A:1118:LEU:N	1:A:1311:THR:CG2	2.64	0.53
1:A:1444:PHE:HA	6:F:137:TYR:CD1	2.41	0.53
1:A:90:VAL:HG12	1:A:298:GLN:NE2	2.22	0.53
2:B:180:LEU:O	2:B:183:MET:N	2.41	0.53
2:B:573:ILE:HG23	2:B:581:GLY:O	2.08	0.53
2:B:763:GLN:HG2	2:B:765:PRO:CG	2.39	0.53
3:C:115:SER:CB	3:C:142:ILE:CG1	2.86	0.53
5:E:123:ILE:HA	5:E:131:ILE:HD12	1.90	0.53
7:G:77:VAL:HG12	7:G:77:VAL:O	2.07	0.53
9:I:32:CYS:SG	9:I:33:ASP:N	2.81	0.53
1:M:1194:LEU:HG	1:M:1195:LEU:N	2.23	0.53
1:M:1335:PHE:HD2	1:M:1335:PHE:N	2.06	0.53
2:N:630:LEU:HD22	2:N:742:GLU:HA	1.90	0.53
2:N:785:TYR:HA	2:N:788:ARG:HG3	1.89	0.53
4:P:65:LYS:C	4:P:67:ARG:H	2.12	0.53
1:A:1335:PHE:HD2	1:A:1335:PHE:N	2.06	0.53
1:A:1367:ASN:ND2	1:A:1368:TYR:N	2.56	0.53
1:A:346:VAL:HG13	2:B:1130:PHE:CB	2.28	0.53
2:B:472:VAL:O	2:B:473:SER:HB3	2.08	0.53
2:B:54:PRO:CG	2:B:55:ARG:H	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:574:PHE:O	2:B:619:ILE:HB	2.08	0.53
2:B:704:PRO:HG2	2:B:705:GLU:H	1.72	0.53
3:C:148:ARG:CG	3:C:149:ASN:N	2.72	0.53
3:C:81:TYR:CE2	3:C:161:LYS:HB3	2.44	0.53
9:I:106:CYS:O	9:I:107:LYS:HB2	2.08	0.53
11:K:29:ASN:O	11:K:76:GLN:HG3	2.07	0.53
1:M:1343:GLY:O	1:M:1345:GLU:N	2.41	0.53
1:M:244:PRO:O	1:M:247:VAL:HB	2.07	0.53
3:O:252:GLN:CG	11:W:95:ILE:HG23	2.38	0.53
1:M:1445:ASP:OD2	6:R:137:TYR:CE1	2.61	0.53
7:S:89:ALA:CB	7:S:103:VAL:N	2.71	0.53
9:U:106:CYS:O	9:U:107:LYS:HB2	2.08	0.53
1:A:1335:PHE:CD2	1:A:1335:PHE:N	2.76	0.53
1:A:1343:GLY:HA3	5:E:183:VAL:HG23	1.89	0.53
1:A:1379:THR:HG23	1:A:1380:SER:N	2.24	0.53
1:A:667:ILE:HD12	1:A:667:ILE:N	2.22	0.53
2:B:458:ASN:ND2	2:B:458:ASN:N	2.55	0.53
2:B:981:ALA:HB2	2:B:987:LYS:HA	1.90	0.53
5:E:134:PHE:HD2	5:E:139:LEU:HD21	1.72	0.53
11:K:31:ILE:CG1	11:K:32:ILE:N	2.71	0.53
1:M:1016:ALA:C	1:M:1017:THR:HG23	2.29	0.53
1:M:1239:ILE:CG2	1:M:1240:ILE:N	2.70	0.53
1:M:1282:ILE:HG23	1:M:1311:THR:OG1	2.08	0.53
1:M:1389:ARG:HB2	1:M:1406:GLU:HG3	1.91	0.53
1:M:822:ARG:CB	1:M:822:ARG:HH11	2.21	0.53
2:N:190:MET:CE	2:N:485:LEU:HD23	2.39	0.53
2:N:612:ILE:C	2:N:614:GLU:H	2.12	0.53
2:N:92:ALA:O	2:N:93:ASP:CB	2.55	0.53
7:S:77:VAL:O	7:S:77:VAL:HG12	2.07	0.53
1:A:1194:LEU:HG	1:A:1195:LEU:N	2.23	0.53
1:A:1239:ILE:CG2	1:A:1240:ILE:N	2.70	0.53
1:A:524:ILE:CG2	1:A:528:THR:HB	2.39	0.53
2:B:201:LYS:HA	2:B:474:GLN:O	2.09	0.53
2:B:782:LEU:HB3	2:B:784:ASN:OD1	2.08	0.53
2:B:859:TYR:HD1	2:B:859:TYR:H	1.56	0.53
5:E:77:LEU:HA	5:E:106:THR:HB	1.90	0.53
7:G:1:MET:O	7:G:3:PHE:CD1	2.62	0.53
1:A:1450:GLU:HG3	7:G:22:MET:CG	2.39	0.53
10:J:27:GLU:C	10:J:29:LYS:H	2.10	0.53
10:J:51:THR:O	10:J:51:THR:CG2	2.56	0.53
1:M:1075:GLY:O	1:M:1078:ALA:HB3	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1337:GLU:O	1:M:1340:SER:N	2.41	0.53
1:M:400:HIS:CB	1:M:401:PRO:HD3	2.36	0.53
2:N:859:TYR:HD1	2:N:859:TYR:H	1.56	0.53
3:O:114:TYR:HB3	3:O:140:GLN:O	2.08	0.53
4:P:4:SER:O	4:P:5:THR:CB	2.56	0.53
1:A:1016:ALA:C	1:A:1017:THR:HG23	2.29	0.53
1:A:851:VAL:HG21	1:A:1060:VAL:HG11	1.91	0.53
1:A:1163:THR:HG22	1:A:1164:VAL:H	1.72	0.53
1:A:669:ASP:HB3	1:A:742:ASN:HD21	1.74	0.53
1:A:91:PHE:HB3	1:A:96:ILE:HG12	1.91	0.53
8:H:111:ILE:HG22	8:H:112:LYS:N	2.23	0.53
1:M:406:VAL:CG1	1:M:414:ILE:HD12	2.39	0.53
1:M:524:ILE:CG2	1:M:528:THR:HB	2.39	0.53
2:N:206:GLN:HE22	2:N:492:ASN:CB	2.15	0.53
2:N:158:ILE:CG2	2:N:446:ILE:HD12	2.32	0.53
3:O:5:PRO:HB3	3:O:24:VAL:CG1	2.36	0.53
8:T:80:PRO:CB	8:T:81:PRO:CD	2.85	0.53
1:A:114:LEU:O	1:A:115:LEU:HG	2.08	0.53
1:A:1282:ILE:HG23	1:A:1311:THR:OG1	2.08	0.53
1:A:1447:MET:HG2	7:G:60:ARG:CB	2.17	0.53
1:A:239:VAL:CG2	1:A:239:VAL:CA	2.79	0.53
2:B:479:TYR:CE1	2:B:1096:ARG:NH2	2.77	0.53
3:C:114:TYR:HB3	3:C:140:GLN:O	2.08	0.53
7:G:153:ASP:HB3	7:G:156:GLU:O	2.08	0.53
1:A:699:GLN:HE21	9:I:99:LEU:HD21	1.74	0.53
1:M:11:LEU:HD12	1:M:12:ARG:N	2.24	0.53
1:M:1335:PHE:CD2	1:M:1335:PHE:N	2.76	0.53
2:N:1099:VAL:O	2:N:1101:ASP:N	2.41	0.53
1:M:345:ARG:CA	2:N:1129:ARG:HB2	2.36	0.53
2:N:266:PRO:HG3	2:N:352:GLU:HB3	1.91	0.53
2:N:54:PRO:CG	2:N:55:ARG:H	2.21	0.53
2:N:770:GLN:CD	2:N:983:ARG:HA	2.28	0.53
3:O:114:TYR:CG	3:O:140:GLN:HB2	2.44	0.53
3:O:56:VAL:HG11	10:V:59:PHE:CB	2.31	0.53
7:S:74:TYR:H	7:S:74:TYR:HD2	1.56	0.53
1:A:1222:PHE:O	1:A:1223:SER:HB2	2.08	0.53
1:A:538:ARG:NH2	8:H:25:ARG:HH21	2.06	0.53
2:B:1010:LEU:CD2	2:B:1092:TYR:CE1	2.92	0.53
2:B:190:MET:CE	2:B:485:LEU:HD23	2.39	0.53
2:B:550:PHE:O	2:B:550:PHE:HD2	1.91	0.53
2:B:770:GLN:CD	2:B:983:ARG:HA	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:286:ASP:H	9:I:12:ASN:ND2	2.05	0.53
1:M:1379:THR:HG23	1:M:1380:SER:N	2.24	0.53
1:M:90:VAL:HG12	1:M:298:GLN:NE2	2.22	0.53
1:M:538:ARG:NH2	8:T:25:ARG:HH21	2.06	0.53
1:M:712:ARG:O	1:M:715:PHE:HB3	2.09	0.53
7:S:1:MET:O	7:S:3:PHE:CD1	2.62	0.53
8:T:26:ILE:HG22	8:T:27:ILE:N	2.23	0.53
11:W:12:LEU:HD22	11:W:16:VAL:O	2.09	0.53
11:W:91:CYS:O	11:W:94:ILE:HB	2.08	0.53
1:A:246:GLN:O	2:B:1114:LEU:HD13	2.04	0.53
1:A:352:THR:HG21	2:B:1103:ILE:CD1	2.38	0.53
2:B:381:CYS:C	2:B:383:LEU:H	2.10	0.53
3:C:56:VAL:HG11	10:J:59:PHE:CB	2.31	0.53
4:D:4:SER:O	4:D:5:THR:CB	2.56	0.53
1:M:988:ILE:HD11	1:M:1033:ILE:CG1	2.34	0.53
1:M:114:LEU:O	1:M:115:LEU:HG	2.09	0.53
1:M:983:LEU:HD12	1:M:1034:LEU:HD21	1.90	0.53
2:N:472:VAL:O	2:N:473:SER:HB3	2.08	0.53
2:N:955:THR:HG22	2:N:956:THR:O	2.09	0.53
3:O:114:TYR:CD2	3:O:140:GLN:HB2	2.43	0.53
5:Q:123:ILE:HA	5:Q:131:ILE:HD12	1.90	0.53
3:O:235:THR:OG1	10:V:13:VAL:HG22	2.09	0.53
1:A:1006:ASN:ND2	5:E:166:ARG:CD	2.67	0.53
1:A:1076:GLU:HB3	1:A:1077:PRO:CD	2.39	0.53
1:A:216:SER:O	1:A:219:ASP:HB2	2.09	0.53
1:A:406:VAL:CG1	1:A:414:ILE:HD12	2.39	0.53
1:A:667:ILE:CD1	1:A:668:GLY:H	2.21	0.53
1:A:66:LYS:O	1:A:67:CYS:HB2	2.09	0.53
2:B:157:HIS:C	2:B:158:ILE:HG13	2.28	0.53
2:B:573:ILE:CG2	2:B:581:GLY:O	2.56	0.53
2:B:859:TYR:CZ	2:B:941:LEU:HD12	2.44	0.53
1:M:1016:ALA:C	1:M:1017:THR:CG2	2.77	0.53
1:M:606:MET:HE2	1:M:613:VAL:HG13	1.91	0.53
2:N:1010:LEU:CD2	2:N:1092:TYR:CE1	2.92	0.53
3:O:96:VAL:CG1	3:O:98:LEU:HD21	2.38	0.53
1:A:1166:GLU:C	1:A:1168:ASP:H	2.12	0.53
1:A:11:LEU:HD12	1:A:12:ARG:N	2.24	0.53
1:A:1453:LEU:HD11	7:G:18:PHE:C	2.15	0.53
1:A:335:GLY:O	1:A:337:LEU:N	2.42	0.53
2:B:612:ILE:C	2:B:614:GLU:H	2.12	0.53
11:K:53:TYR:HB3	11:K:56:VAL:HG23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:681:THR:HG23	2:N:726:ILE:HD11	1.91	0.53
2:N:981:ALA:HB2	2:N:987:LYS:HA	1.90	0.53
3:O:148:ARG:CG	3:O:149:ASN:N	2.72	0.53
3:O:81:TYR:CE2	3:O:161:LYS:HB3	2.44	0.53
1:M:1445:ASP:HB2	6:R:137:TYR:CE1	2.44	0.53
10:V:51:THR:CG2	10:V:51:THR:O	2.57	0.53
11:W:68:PHE:N	11:W:68:PHE:CD2	2.76	0.53
1:A:1040:ASN:CG	1:A:1043:ALA:H	2.12	0.52
1:A:1391:GLY:O	1:A:1394:ARG:N	2.41	0.52
1:A:43:GLU:HB2	1:A:46:GLN:HB2	1.90	0.52
1:A:712:ARG:O	1:A:715:PHE:HB3	2.09	0.52
2:B:1099:VAL:O	2:B:1101:ASP:N	2.41	0.52
2:B:1156:ASP:O	2:B:1157:ALA:HB3	2.07	0.52
2:B:864:LYS:O	2:B:872:GLU:HG3	2.09	0.52
6:F:86:THR:HG1	6:F:89:GLU:HG3	1.70	0.52
8:H:48:PRO:O	8:H:49:VAL:HG23	2.09	0.52
1:M:1006:ASN:ND2	5:Q:166:ARG:CD	2.66	0.52
1:M:203:LEU:CG	1:M:207:GLU:CB	2.87	0.52
1:M:769:GLN:CB	1:M:820:ALA:HB2	2.28	0.52
1:M:843:VAL:HG11	2:N:1136:ASP:OD2	2.09	0.52
2:N:1167:GLY:O	2:N:1168:LEU:HD23	2.09	0.52
2:N:1180:PHE:HB3	2:N:1191:ILE:CD1	2.32	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	2.09	0.52
7:S:50:ASP:OD1	7:S:50:ASP:O	2.28	0.52
11:W:31:ILE:CG1	11:W:32:ILE:N	2.71	0.52
1:A:1405:PHE:CE2	1:A:1406:GLU:HG3	2.45	0.52
1:A:321:ARG:NH2	1:A:324:LYS:HE3	2.24	0.52
1:A:327:ARG:NH2	1:A:331:LYS:HE3	2.24	0.52
1:A:79:GLY:H	2:B:1205:GLN:HE22	1.57	0.52
2:B:310:ILE:CG1	2:B:311:GLU:N	2.71	0.52
2:B:545:GLU:C	2:B:547:ILE:H	2.13	0.52
2:B:575:VAL:HG12	2:B:575:VAL:O	2.08	0.52
3:C:114:TYR:CG	3:C:140:GLN:HB2	2.44	0.52
5:E:77:LEU:HD23	5:E:77:LEU:C	2.30	0.52
7:G:15:PRO:HA	7:G:18:PHE:CD1	2.44	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	2.43	0.52
11:K:12:LEU:HD22	11:K:16:VAL:O	2.09	0.52
1:M:1040:ASN:CG	1:M:1043:ALA:H	2.12	0.52
1:M:1389:ARG:CA	1:M:1405:PHE:CE2	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:216:SER:O	1:M:219:ASP:HB2	2.09	0.52
1:M:494:GLN:H	1:M:498:THR:HG21	1.75	0.52
1:M:769:GLN:HB3	1:M:820:ALA:CB	2.28	0.52
1:M:936:GLN:O	1:M:939:SER:N	2.42	0.52
2:N:244:THR:HG22	2:N:245:MET:N	2.23	0.52
2:N:778:MET:HE3	2:N:1094:ARG:HD3	1.88	0.52
3:O:175:ALA:HB3	10:V:42:ARG:HH22	1.69	0.52
5:Q:146:HIS:HB3	5:Q:149:VAL:CG2	2.33	0.52
5:Q:77:LEU:HD23	5:Q:77:LEU:C	2.29	0.52
1:A:173:PRO:HD3	1:A:186:TRP:HE1	1.75	0.52
1:A:546:GLN:HG2	1:A:550:MET:CE	2.38	0.52
1:A:542:ILE:HD13	1:A:550:MET:CE	2.40	0.52
2:B:318:ASP:OD2	2:B:320:GLU:HB2	2.08	0.52
1:A:681:THR:HG23	2:B:726:ILE:HD11	1.91	0.52
5:E:104:PHE:O	5:E:105:SER:HB2	2.09	0.52
1:M:1015:ASN:O	1:M:1017:THR:N	2.43	0.52
1:M:851:VAL:HG21	1:M:1060:VAL:HG11	1.91	0.52
1:M:1391:GLY:O	1:M:1394:ARG:N	2.41	0.52
1:M:312:GLN:O	1:M:313:PRO:C	2.46	0.52
1:M:327:ARG:NH2	1:M:331:LYS:HE3	2.24	0.52
2:N:479:TYR:CE1	2:N:1096:ARG:NH2	2.77	0.52
2:N:201:LYS:HA	2:N:474:GLN:O	2.09	0.52
2:N:249:LEU:O	2:N:249:LEU:HG	2.10	0.52
1:M:320:GLY:H	2:N:464:LYS:HG2	1.73	0.52
3:O:38:ALA:HA	3:O:164:ALA:CB	2.39	0.52
8:T:61:ASN:HB3	8:T:138:ASN:HB3	1.90	0.52
9:U:14:LEU:HD22	9:U:28:SER:O	2.10	0.52
1:M:699:GLN:HE21	9:U:99:LEU:HD21	1.74	0.52
1:A:1016:ALA:C	1:A:1017:THR:CG2	2.77	0.52
1:A:1166:GLU:O	1:A:1168:ASP:N	2.39	0.52
1:A:219:ASP:HA	1:A:222:ARG:CG	2.39	0.52
1:A:265:HIS:C	1:A:267:LEU:H	2.13	0.52
2:B:551:LEU:HD11	2:B:619:ILE:HD11	1.92	0.52
1:M:1101:PRO:O	1:M:1104:LYS:HB3	2.09	0.52
1:M:1166:GLU:C	1:M:1168:ASP:H	2.12	0.52
1:M:1210:THR:HG22	1:M:1212:ASN:H	1.74	0.52
1:M:848:ASP:CA	1:M:1427:VAL:HG21	2.40	0.52
1:M:335:GLY:O	1:M:337:LEU:N	2.42	0.52
2:N:632:ILE:HG22	2:N:634:GLU:HG2	1.92	0.52
2:N:857:ARG:HG3	2:N:858:SER:N	2.25	0.52
5:Q:120:ASN:C	5:Q:122:MET:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:88:ASP:N	7:S:88:ASP:OD2	2.42	0.52
11:W:84:LYS:O	11:W:87:LEU:HB3	2.10	0.52
1:A:1440:GLY:O	1:A:1442:GLY:N	2.43	0.52
1:A:203:LEU:CG	1:A:207:GLU:CB	2.87	0.52
2:B:38:PHE:CD2	2:B:164:MET:HB3	2.45	0.52
2:B:609:ILE:HD13	2:B:618:LYS:HB2	1.91	0.52
5:E:156:SER:OG	5:E:159:GLU:HG3	2.10	0.52
10:J:20:ALA:O	10:J:24:LEU:HG	2.10	0.52
1:M:1268:ALA:C	1:M:1270:MET:N	2.61	0.52
1:M:1405:PHE:CE2	1:M:1406:GLU:HG3	2.45	0.52
1:M:23:SER:HB3	1:M:234:TRP:CZ2	2.45	0.52
1:M:669:ASP:HB3	1:M:742:ASN:HD21	1.74	0.52
2:N:37:SER:O	2:N:403:GLY:HA3	2.09	0.52
2:N:857:ARG:NH1	2:N:945:GLU:OE2	2.43	0.52
5:Q:152:HIS:O	5:Q:153:ILE:CG1	2.54	0.52
6:R:103:MET:CE	7:S:64:GLY:O	2.58	0.52
11:W:49:GLU:HG3	11:W:94:ILE:CG1	2.34	0.52
1:A:23:SER:HB3	1:A:234:TRP:CZ2	2.45	0.52
2:B:858:SER:HA	2:B:966:VAL:O	2.09	0.52
2:B:890:TYR:CA	2:B:910:ILE:HG21	2.39	0.52
4:D:67:ARG:HD2	4:D:93:THR:HB	1.92	0.52
5:E:90:LYS:C	5:E:92:MET:N	2.63	0.52
6:F:84:TYR:CE1	6:F:152:ILE:HD12	2.45	0.52
7:G:113:ARG:C	7:G:114:LEU:HD12	2.30	0.52
7:G:27:ARG:O	7:G:30:LEU:HB3	2.10	0.52
1:M:1047:VAL:O	1:M:1051:ILE:HG13	2.09	0.52
1:M:41:MET:O	1:M:42:ASP:C	2.47	0.52
2:N:462:GLN:O	2:N:463:LYS:O	2.27	0.52
2:N:858:SER:HA	2:N:966:VAL:O	2.09	0.52
2:N:107:ARG:HG2	2:N:955:THR:HG21	1.92	0.52
5:Q:90:LYS:C	5:Q:92:MET:N	2.63	0.52
1:A:1047:VAL:O	1:A:1051:ILE:HG13	2.09	0.52
1:A:1101:PRO:O	1:A:1104:LYS:HB3	2.09	0.52
1:A:1439:MET:O	1:A:1440:GLY:C	2.46	0.52
2:B:86:ARG:C	2:B:113:SER:HB3	2.30	0.52
2:B:1152:MET:HE1	2:B:1157:ALA:HA	1.91	0.52
2:B:324:ASP:O	2:B:325:PHE:C	2.48	0.52
2:B:158:ILE:HA	2:B:443:SER:CB	2.40	0.52
2:B:857:ARG:HG3	2:B:858:SER:N	2.25	0.52
7:G:88:ASP:OD2	7:G:88:ASP:N	2.42	0.52
1:M:265:HIS:C	1:M:267:LEU:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:643:CYS:O	1:M:646:LEU:HB3	2.10	0.52
1:M:91:PHE:HB3	1:M:96:ILE:HG12	1.91	0.52
2:N:158:ILE:HA	2:N:443:SER:CB	2.40	0.52
2:N:190:MET:HE2	2:N:485:LEU:HD23	1.90	0.52
4:P:24:ASN:O	7:S:83:LYS:HB2	2.10	0.52
1:M:380:THR:OG1	6:R:102:SER:O	2.24	0.52
6:R:84:TYR:CE1	6:R:152:ILE:HD12	2.44	0.52
7:S:113:ARG:C	7:S:114:LEU:HD12	2.30	0.52
7:S:27:ARG:O	7:S:30:LEU:HB3	2.10	0.52
1:A:1210:THR:HG22	1:A:1212:ASN:H	1.74	0.52
1:A:498:THR:HG23	2:B:1146:PHE:HD1	1.74	0.52
1:A:801:VAL:HG11	1:A:809:LEU:CD1	2.39	0.52
2:B:462:GLN:O	2:B:463:LYS:O	2.27	0.52
2:B:825:VAL:HG12	2:B:826:ALA:N	2.24	0.52
2:B:955:THR:HG22	2:B:956:THR:O	2.09	0.52
5:E:95:PHE:CE2	5:E:109:PHE:HB2	2.45	0.52
10:J:2:ILE:HG23	10:J:3:ILE:H	1.74	0.52
1:M:219:ASP:HA	1:M:222:ARG:CG	2.40	0.52
2:N:200:GLU:OE2	2:N:476:LEU:HD23	2.10	0.52
5:Q:104:PHE:O	5:Q:105:SER:HB2	2.09	0.52
5:Q:89:ILE:HG21	5:Q:118:SER:CA	2.39	0.52
7:S:47:THR:O	7:S:76:ALA:HB1	2.09	0.52
9:U:15:TYR:CD1	9:U:15:TYR:N	2.77	0.52
1:A:825:LEU:HD21	2:B:765:PRO:CB	2.39	0.52
2:B:200:GLU:OE2	2:B:476:LEU:HD23	2.10	0.52
2:B:632:ILE:HG22	2:B:634:GLU:HG2	1.92	0.52
4:D:53:LEU:HD22	4:D:108:TYR:HE2	1.75	0.52
7:G:114:LEU:HB3	7:G:162:SER:HB3	1.90	0.52
12:L:32:THR:HG22	12:L:33:CYS:N	2.24	0.52
1:M:1076:GLU:HB3	1:M:1077:PRO:CD	2.39	0.52
1:M:226:ASN:ND2	1:M:229:TYR:H	2.05	0.52
1:M:404:LYS:HG3	1:M:404:LYS:O	2.10	0.52
1:M:496:GLU:HG2	6:R:99:LEU:HA	1.92	0.52
2:N:545:GLU:C	2:N:547:ILE:H	2.13	0.52
2:N:551:LEU:C	2:N:553:GLU:N	2.63	0.52
5:Q:81:PHE:CD2	5:Q:110:ILE:HG21	2.45	0.52
8:T:48:PRO:O	8:T:49:VAL:HG23	2.09	0.52
1:A:850:MET:O	1:A:850:MET:HG3	2.09	0.52
2:B:326:ILE:O	2:B:326:ILE:HG22	2.10	0.52
2:B:37:SER:O	2:B:403:GLY:HA3	2.09	0.52
2:B:971:THR:OG1	3:C:60:GLU:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:41:PHE:HZ	5:E:57:MET:CE	2.22	0.52
6:F:96:THR:O	6:F:100:GLN:HG3	2.10	0.52
7:G:44:TYR:O	7:G:78:VAL:HG12	2.10	0.52
1:M:181:LYS:HZ3	1:M:295:GLN:HB3	1.72	0.52
1:M:444:LEU:CD1	1:M:456:MET:HB3	2.27	0.52
1:M:79:GLY:H	2:N:1205:GLN:HE22	1.57	0.52
2:N:551:LEU:HD11	2:N:619:ILE:HD11	1.92	0.52
2:N:859:TYR:CZ	2:N:941:LEU:HD12	2.44	0.52
2:N:971:THR:OG1	3:O:60:GLU:HG3	2.10	0.52
10:V:27:GLU:O	10:V:29:LYS:N	2.43	0.52
1:A:1015:ASN:O	1:A:1017:THR:N	2.43	0.51
1:A:1376:ASP:CA	1:A:1379:THR:HG22	2.39	0.51
1:A:371:ILE:HD12	1:A:469:PHE:CE2	2.46	0.51
1:A:44:SER:O	1:A:45:ARG:HB2	2.10	0.51
2:B:1172:ILE:O	2:B:1172:ILE:CG2	2.58	0.51
2:B:1159:ARG:CG	2:B:1193:GLN:HE21	2.23	0.51
5:E:16:ARG:HH11	5:E:16:ARG:CG	2.23	0.51
5:E:89:ILE:HG21	5:E:118:SER:CA	2.40	0.51
7:G:47:THR:O	7:G:76:ALA:HB1	2.09	0.51
4:D:24:ASN:O	7:G:83:LYS:HB2	2.10	0.51
1:M:593:ASP:H	1:M:596:ASN:CG	2.13	0.51
1:M:850:MET:HG3	1:M:850:MET:O	2.09	0.51
2:N:1172:ILE:O	2:N:1172:ILE:CG2	2.58	0.51
2:N:166:ARG:NH1	2:N:166:ARG:HG3	2.22	0.51
2:N:515:VAL:HG13	2:N:531:ASN:O	2.10	0.51
2:N:702:MET:N	2:N:707:LEU:HD12	2.25	0.51
2:N:745:PRO:C	2:N:747:MET:H	2.12	0.51
2:N:997:GLU:HB3	3:O:34:ARG:HB3	1.92	0.51
4:P:67:ARG:HD2	4:P:93:THR:HB	1.92	0.51
5:Q:41:PHE:HZ	5:Q:57:MET:CE	2.23	0.51
7:S:44:TYR:O	7:S:78:VAL:HG12	2.10	0.51
8:T:40:LEU:HB2	8:T:122:MET:HE2	1.92	0.51
8:T:6:PHE:O	8:T:58:THR:HG23	2.11	0.51
1:A:1294:VAL:HG13	1:A:1295:PRO:HD2	1.92	0.51
1:A:342:MET:HE2	1:A:844:LYS:NZ	2.24	0.51
1:A:494:GLN:H	1:A:498:THR:HG21	1.75	0.51
1:A:50:GLU:C	1:A:52:GLY:N	2.64	0.51
1:A:593:ASP:H	1:A:596:ASN:CG	2.14	0.51
1:A:629:GLY:O	1:A:633:THR:HG22	2.11	0.51
1:A:887:ILE:CG2	1:A:888:PRO:N	2.73	0.51
1:A:902:LEU:HD11	1:A:985:ILE:CD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:702:MET:N	2:B:707:LEU:HD12	2.25	0.51
4:D:65:LYS:C	4:D:67:ARG:H	2.12	0.51
8:H:99:THR:HG22	8:H:100:VAL:N	2.25	0.51
3:C:9:ILE:CD1	11:K:108:GLU:HB3	2.37	0.51
11:K:84:LYS:O	11:K:87:LEU:HB3	2.10	0.51
1:M:1068:VAL:O	1:M:1072:GLN:HG3	2.10	0.51
1:M:321:ARG:NH2	1:M:324:LYS:HE3	2.24	0.51
1:M:685:SER:O	1:M:688:LYS:HB2	2.11	0.51
2:N:326:ILE:HG22	2:N:326:ILE:O	2.10	0.51
2:N:986:GLN:HA	2:N:986:GLN:OE1	2.09	0.51
3:O:251:LEU:HG	11:W:98:LEU:HD11	1.92	0.51
7:S:111:SER:CB	7:S:114:LEU:HD13	2.39	0.51
7:S:1:MET:HE1	7:S:80:LYS:H	1.74	0.51
12:X:32:THR:HG22	12:X:33:CYS:N	2.24	0.51
1:A:381:VAL:HG13	1:A:386:ILE:HG12	1.92	0.51
1:A:607:LEU:HB3	1:A:615:PHE:CD2	2.46	0.51
2:B:847:ASP:OD2	11:K:6:ARG:NH2	2.43	0.51
3:C:179:GLU:HG2	3:C:180:TYR:N	2.26	0.51
3:C:251:LEU:HG	11:K:98:LEU:HD11	1.92	0.51
4:D:47:ASP:O	4:D:48:LEU:O	2.29	0.51
6:F:82:THR:CG2	6:F:84:TYR:HB2	2.41	0.51
7:G:50:ASP:OD1	7:G:50:ASP:O	2.28	0.51
9:I:15:TYR:CD1	9:I:15:TYR:N	2.77	0.51
10:J:1:MET:H1	10:J:56:ILE:N	2.05	0.51
12:L:36:CYS:O	12:L:38:HIS:N	2.44	0.51
1:M:606:MET:HG2	1:M:622:THR:CG2	2.40	0.51
2:N:1158:PHE:HE2	2:N:1201:LYS:HD2	1.75	0.51
2:N:1198:TYR:HE2	2:N:1202:LEU:HD12	1.75	0.51
2:N:38:PHE:CD2	2:N:164:MET:HB3	2.45	0.51
2:N:607:SER:HA	2:N:694:GLU:OE1	2.11	0.51
7:S:160:ILE:HG22	7:S:161:GLY:H	1.76	0.51
3:O:166:GLU:CG	11:W:10:PHE:HZ	2.23	0.51
1:A:269:ASP:HB3	1:A:300:HIS:CE1	2.45	0.51
1:A:41:MET:O	1:A:42:ASP:C	2.47	0.51
1:A:445:PHE:CB	1:A:459:HIS:CD2	2.94	0.51
2:B:637:GLU:OE1	2:B:637:GLU:HA	2.10	0.51
2:B:913:GLY:HA2	2:B:938:SER:OG	2.10	0.51
4:D:65:LYS:O	4:D:69:ARG:HG3	2.10	0.51
5:E:120:ASN:C	5:E:122:MET:H	2.13	0.51
11:K:21:ILE:HG23	11:K:31:ILE:CG1	2.40	0.51
11:K:47:ARG:HB3	11:K:47:ARG:HH11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1017:THR:OG1	1:M:1018:SER:N	2.43	0.51
1:M:38:PRO:HG2	1:M:39:GLU:OE1	2.11	0.51
1:M:496:GLU:CB	6:R:99:LEU:HA	2.40	0.51
1:M:50:GLU:C	1:M:52:GLY:N	2.64	0.51
1:M:546:GLN:HG2	1:M:550:MET:CE	2.38	0.51
1:M:542:ILE:HD13	1:M:550:MET:CE	2.40	0.51
1:M:648:GLY:O	1:M:652:LYS:HG3	2.11	0.51
1:M:857:THR:HB	1:M:866:GLN:HB2	1.92	0.51
2:N:1005:GLY:O	2:N:1006:ILE:C	2.49	0.51
2:N:290:LEU:CD1	2:N:306:LEU:HD13	2.41	0.51
2:N:859:TYR:CD1	2:N:859:TYR:N	2.78	0.51
2:N:913:GLY:HA2	2:N:938:SER:OG	2.10	0.51
3:O:54:THR:HG22	3:O:54:THR:O	2.10	0.51
5:Q:156:SER:OG	5:Q:159:GLU:HG3	2.10	0.51
5:Q:95:PHE:CE2	5:Q:109:PHE:HB2	2.45	0.51
6:R:96:THR:O	6:R:100:GLN:HG3	2.11	0.51
7:S:15:PRO:HA	7:S:18:PHE:CD1	2.44	0.51
10:V:20:ALA:O	10:V:24:LEU:HG	2.10	0.51
1:A:1076:GLU:HB3	1:A:1077:PRO:HD3	1.92	0.51
1:A:1146:LYS:HA	1:A:1271:LEU:HD22	1.93	0.51
1:A:445:PHE:CB	1:A:459:HIS:HD2	2.24	0.51
1:A:857:THR:HB	1:A:866:GLN:HB2	1.93	0.51
2:B:370:PHE:O	2:B:373:TYR:N	2.44	0.51
2:B:576:ASN:HD21	2:B:621:THR:HB	1.75	0.51
2:B:986:GLN:OE1	2:B:986:GLN:HA	2.10	0.51
3:C:201:TRP:CE3	3:C:202:PRO:HD2	2.45	0.51
3:C:81:TYR:CD2	3:C:161:LYS:HB3	2.45	0.51
1:M:1376:ASP:CA	1:M:1379:THR:HG22	2.40	0.51
1:M:1440:GLY:O	1:M:1442:GLY:N	2.43	0.51
1:M:169:GLY:O	1:M:170:ASN:C	2.49	0.51
1:M:239:VAL:CA	1:M:239:VAL:CG1	2.79	0.51
1:M:316:LEU:HD13	1:M:320:GLY:O	2.10	0.51
1:M:371:ILE:HD12	1:M:469:PHE:CE2	2.45	0.51
1:M:43:GLU:HB2	1:M:46:GLN:HB2	1.90	0.51
1:M:799:GLY:CA	1:M:816:PHE:CD1	2.84	0.51
2:N:575:VAL:O	2:N:575:VAL:HG12	2.08	0.51
2:N:609:ILE:HD13	2:N:618:LYS:HB2	1.91	0.51
2:N:576:ASN:HD21	2:N:621:THR:HB	1.75	0.51
2:N:755:ILE:HG22	2:N:809:MET:CE	2.41	0.51
2:N:847:ASP:OD2	11:W:6:ARG:NH2	2.43	0.51
4:P:65:LYS:O	4:P:69:ARG:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:16:ARG:HH11	5:Q:16:ARG:CG	2.23	0.51
1:A:1344:ILE:HG23	1:A:1345:GLU:N	2.26	0.51
2:B:1167:GLY:O	2:B:1168:LEU:HD23	2.09	0.51
2:B:1197:PRO:HG2	2:B:1200:ALA:CB	2.40	0.51
2:B:812:LEU:O	2:B:814:PHE:N	2.44	0.51
2:B:857:ARG:NH1	2:B:945:GLU:OE2	2.43	0.51
8:H:6:PHE:O	8:H:58:THR:HG23	2.11	0.51
9:I:14:LEU:HD22	9:I:28:SER:O	2.10	0.51
1:M:1444:PHE:HA	6:R:137:TYR:CD1	2.40	0.51
1:M:269:ASP:HB3	1:M:300:HIS:CE1	2.45	0.51
1:M:445:PHE:HB2	1:M:459:HIS:HD2	1.75	0.51
1:M:44:SER:O	1:M:45:ARG:HB2	2.10	0.51
1:M:776:ILE:HG23	1:M:819:MET:SD	2.50	0.51
2:N:86:ARG:C	2:N:113:SER:HB3	2.30	0.51
2:N:1197:PRO:HG2	2:N:1200:ALA:CB	2.40	0.51
2:N:1169:MET:HE1	2:N:1201:LYS:O	2.11	0.51
2:N:825:VAL:HG12	2:N:826:ALA:N	2.24	0.51
2:N:976:ILE:HG12	2:N:993:THR:HG23	1.93	0.51
9:U:32:CYS:SG	9:U:33:ASP:N	2.81	0.51
11:W:53:TYR:HB3	11:W:56:VAL:HG23	1.91	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:263:LEU:HD11	1:A:326:ILE:HG12	1.93	0.51
1:A:445:PHE:HB2	1:A:459:HIS:HD2	1.75	0.51
1:A:578:LEU:O	1:A:581:ILE:CG2	2.36	0.51
1:A:739:LYS:H	1:A:739:LYS:CD	2.07	0.51
2:B:1005:GLY:O	2:B:1006:ILE:C	2.49	0.51
2:B:997:GLU:HB3	3:C:34:ARG:HB3	1.92	0.51
5:E:81:PHE:CG	5:E:110:ILE:HG21	2.46	0.51
1:M:110:CYS:SG	1:M:111:GLY:N	2.84	0.51
1:M:1146:LYS:HA	1:M:1271:LEU:HD22	1.93	0.51
1:M:1367:ASN:ND2	1:M:1368:TYR:N	2.56	0.51
1:M:147:VAL:O	1:M:149:GLU:N	2.44	0.51
1:M:472:ASN:O	1:M:475:VAL:HG12	2.10	0.51
1:M:66:LYS:O	1:M:67:CYS:HB2	2.09	0.51
2:N:180:LEU:O	2:N:183:MET:N	2.41	0.51
2:N:324:ASP:O	2:N:325:PHE:C	2.48	0.51
2:N:637:GLU:HA	2:N:637:GLU:OE1	2.09	0.51
2:N:831:SER:HG	2:N:994:TYR:HE1	1.57	0.51
1:M:473:LEU:HD11	2:N:835:GLN:NE2	2.26	0.51
4:P:47:ASP:O	4:P:48:LEU:O	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:199:ARG:HG3	5:Q:199:ARG:HH11	1.76	0.51
1:A:147:VAL:O	1:A:149:GLU:N	2.44	0.51
1:A:447:ARG:CD	1:A:481:ALA:HB2	2.35	0.51
1:A:640:PRO:HG2	1:A:641:LYS:N	2.25	0.51
1:A:643:CYS:O	1:A:646:LEU:HB3	2.10	0.51
1:A:1412:LEU:CD1	2:B:1207:LEU:HD11	2.41	0.51
2:B:755:ILE:HG22	2:B:809:MET:CE	2.41	0.51
2:B:954:LEU:HA	2:B:964:VAL:HG22	1.93	0.51
3:C:235:THR:OG1	10:J:13:VAL:HG22	2.10	0.51
3:C:38:ALA:HA	3:C:164:ALA:CB	2.39	0.51
8:H:12:VAL:HG13	8:H:26:ILE:HG21	1.93	0.51
1:M:1294:VAL:HG13	1:M:1295:PRO:HD2	1.92	0.51
1:M:218:GLU:O	1:M:222:ARG:CG	2.59	0.51
1:M:333:LYS:O	1:M:334:GLU:CB	2.53	0.51
1:M:381:VAL:HG13	1:M:386:ILE:HG12	1.92	0.51
1:M:498:THR:HG23	2:N:1146:PHE:HD1	1.75	0.51
1:M:629:GLY:O	1:M:633:THR:HG22	2.10	0.51
1:M:640:PRO:HG2	1:M:641:LYS:N	2.25	0.51
2:N:27:GLU:OE1	2:N:678:TRP:HB3	2.11	0.51
2:N:763:GLN:HG2	2:N:765:PRO:CG	2.39	0.51
5:Q:41:PHE:HZ	5:Q:57:MET:HE1	1.76	0.51
1:A:110:CYS:SG	1:A:111:GLY:N	2.84	0.51
1:A:471:LEU:C	1:A:471:LEU:HD12	2.31	0.51
1:A:504:GLN:NE2	6:F:90:ARG:NH2	2.52	0.51
1:A:606:MET:HG2	1:A:622:THR:CG2	2.40	0.51
2:B:228:VAL:HG22	2:B:248:LYS:HA	1.93	0.51
2:B:515:VAL:HG13	2:B:531:ASN:O	2.10	0.51
2:B:542:SER:O	2:B:621:THR:HG21	2.11	0.51
2:B:824:ILE:HG12	10:J:47:ARG:NH1	2.26	0.51
3:C:166:GLU:CG	11:K:10:PHE:HZ	2.23	0.51
1:M:887:ILE:CG2	1:M:888:PRO:N	2.73	0.51
2:N:826:ALA:HB2	2:N:1008:PRO:HB3	1.93	0.51
2:N:201:LYS:HE2	2:N:455:ALA:O	2.11	0.51
2:N:370:PHE:O	2:N:373:TYR:N	2.44	0.51
2:N:864:LYS:O	2:N:872:GLU:HG3	2.09	0.51
2:N:1217:TYR:HE2	4:P:14:ARG:N	2.09	0.51
5:Q:84:GLU:O	5:Q:86:SER:N	2.39	0.51
8:T:36:ILE:CG1	8:T:36:ILE:CA	2.81	0.51
9:U:34:TYR:CD2	9:U:34:TYR:C	2.84	0.51
1:A:1017:THR:OG1	1:A:1018:SER:N	2.43	0.51
1:A:1200:ASP:HB3	1:A:1203:ARG:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:316:LEU:HD13	1:A:320:GLY:O	2.11	0.51
1:A:38:PRO:HG2	1:A:39:GLU:OE1	2.11	0.51
1:A:685:SER:O	1:A:688:LYS:HB2	2.11	0.51
1:A:810:THR:O	1:A:811:PRO:C	2.50	0.51
1:A:936:GLN:O	1:A:939:SER:N	2.42	0.51
2:B:826:ALA:HB2	2:B:1008:PRO:HB3	1.93	0.51
2:B:107:ARG:HG2	2:B:955:THR:HG21	1.92	0.51
2:B:702:MET:H	2:B:707:LEU:CD1	2.24	0.51
2:B:859:TYR:CD1	2:B:859:TYR:N	2.78	0.51
3:C:5:PRO:HB3	3:C:24:VAL:CG1	2.36	0.51
3:C:44:ALA:CA	3:C:71:LEU:HD12	2.40	0.51
10:J:19:ASP:O	10:J:23:ARG:HB2	2.11	0.51
11:K:87:LEU:O	11:K:87:LEU:HD12	2.11	0.51
1:M:607:LEU:HB3	1:M:615:PHE:CD2	2.46	0.51
1:M:902:LEU:HD11	1:M:985:ILE:CD1	2.40	0.51
2:N:812:LEU:O	2:N:814:PHE:N	2.44	0.51
7:S:114:LEU:HB3	7:S:162:SER:CB	2.41	0.51
7:S:14:HIS:HD2	7:S:16:SER:HB3	1.71	0.51
9:U:100:PHE:CD1	9:U:100:PHE:N	2.79	0.51
1:A:303:THR:HG22	1:A:304:TYR:H	1.75	0.50
1:A:400:HIS:CB	1:A:401:PRO:HD3	2.36	0.50
1:A:803:ASN:ND2	1:A:810:THR:HG23	2.25	0.50
1:A:15:LYS:HB3	2:B:1220:ARG:NH2	2.26	0.50
2:B:290:LEU:CD1	2:B:306:LEU:HD13	2.40	0.50
2:B:705:GLU:HG3	2:B:706:ASP:H	1.77	0.50
2:B:906:SER:O	2:B:941:LEU:HD23	2.11	0.50
3:C:54:THR:O	3:C:54:THR:HG22	2.10	0.50
5:E:199:ARG:HH11	5:E:199:ARG:HG3	1.76	0.50
8:H:12:VAL:HG13	8:H:26:ILE:CG2	2.41	0.50
11:K:5:ASP:HB3	11:K:7:PHE:CE2	2.46	0.50
1:M:1032:ARG:HB3	1:M:1032:ARG:HH11	1.75	0.50
1:M:173:PRO:HD3	1:M:186:TRP:HE1	1.74	0.50
1:M:227:GLU:O	1:M:227:GLU:HG2	2.10	0.50
1:M:263:LEU:HD11	1:M:326:ILE:HG12	1.93	0.50
1:M:504:GLN:HE21	6:R:90:ARG:NH2	2.09	0.50
1:M:623:VAL:HG13	1:M:623:VAL:O	2.11	0.50
1:M:75:ALA:CA	2:N:1116:ARG:HH12	2.23	0.50
3:O:81:TYR:CD2	3:O:161:LYS:HB3	2.46	0.50
3:O:31:SER:OG	11:W:45:LEU:HD13	2.11	0.50
12:X:36:CYS:O	12:X:38:HIS:N	2.44	0.50
1:A:446:ASN:CB	1:A:456:MET:HG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:472:ASN:O	1:A:475:VAL:HG12	2.10	0.50
1:A:828:THR:HA	1:A:831:LYS:HE2	1.93	0.50
2:B:201:LYS:HE2	2:B:455:ALA:O	2.11	0.50
2:B:206:GLN:HA	2:B:206:GLN:NE2	2.26	0.50
2:B:266:PRO:HG3	2:B:352:GLU:HB3	1.91	0.50
2:B:806:THR:H	2:B:809:MET:HG3	1.76	0.50
3:C:164:ALA:CB	3:C:171:SER:CB	2.85	0.50
4:D:53:LEU:HD12	4:D:147:SER:HB2	1.93	0.50
1:M:419:HIS:CG	1:M:421:ARG:H	2.29	0.50
1:M:684:ILE:O	1:M:688:LYS:HG3	2.11	0.50
1:M:15:LYS:HB3	2:N:1220:ARG:NH2	2.26	0.50
2:N:195:VAL:HG13	2:N:198:GLY:O	2.12	0.50
2:N:229:ALA:O	2:N:247:ILE:HG22	2.11	0.50
2:N:281:LEU:HD21	2:N:364:GLU:O	2.11	0.50
2:N:542:SER:O	2:N:621:THR:HG21	2.11	0.50
4:P:106:LEU:O	4:P:110:ASN:HB2	2.12	0.50
4:P:53:LEU:HD12	4:P:147:SER:HB2	1.93	0.50
5:Q:146:HIS:CD2	5:Q:148:LEU:H	2.29	0.50
6:R:127:GLN:O	6:R:129:LYS:HG2	2.12	0.50
6:R:82:THR:CG2	6:R:84:TYR:HB2	2.41	0.50
8:T:99:THR:HG22	8:T:100:VAL:N	2.25	0.50
11:W:87:LEU:O	11:W:87:LEU:HD12	2.11	0.50
1:A:419:HIS:CG	1:A:421:ARG:H	2.29	0.50
1:A:377:TYR:OH	1:A:499:ARG:HD2	2.11	0.50
2:B:1159:ARG:HD3	2:B:1193:GLN:CG	2.41	0.50
2:B:1178:ASN:O	2:B:1179:GLN:C	2.49	0.50
2:B:1116:ARG:CG	2:B:1198:TYR:CD1	2.95	0.50
2:B:249:LEU:O	2:B:249:LEU:HG	2.10	0.50
2:B:252:ARG:HH11	2:B:252:ARG:HB3	1.77	0.50
2:B:542:SER:H	2:B:621:THR:HG23	1.76	0.50
8:H:40:LEU:HB2	8:H:122:MET:HE2	1.92	0.50
9:I:100:PHE:CD1	9:I:100:PHE:N	2.79	0.50
1:M:101:LYS:HA	1:M:104:GLU:OE1	2.12	0.50
1:M:826:ILE:HD12	2:N:506:GLN:NE2	2.26	0.50
1:M:828:THR:HA	1:M:831:LYS:HE2	1.93	0.50
2:N:1159:ARG:CG	2:N:1193:GLN:HE21	2.23	0.50
2:N:252:ARG:HB3	2:N:252:ARG:NH1	2.27	0.50
2:N:702:MET:H	2:N:707:LEU:CD1	2.24	0.50
4:P:65:LYS:C	4:P:67:ARG:N	2.65	0.50
2:N:824:ILE:HG12	10:V:47:ARG:NH1	2.26	0.50
10:V:1:MET:H1	10:V:56:ILE:N	2.08	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:842:LEU:HD22	1:A:1374:LEU:HD22	1.94	0.50
1:A:513:VAL:HG13	1:A:513:VAL:O	2.12	0.50
1:A:684:ILE:O	1:A:688:LYS:HG3	2.11	0.50
2:B:162:PRO:HD2	2:B:450:LEU:HD13	1.93	0.50
2:B:607:SER:HA	2:B:694:GLU:OE1	2.11	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
9:I:56:ALA:O	9:I:57:GLY:C	2.50	0.50
1:M:1207:LYS:O	1:M:1208:GLN:O	2.30	0.50
1:M:601:PRO:C	1:M:603:ASP:H	2.15	0.50
1:M:76:GLU:N	2:N:1116:ARG:HH12	2.10	0.50
2:N:1178:ASN:O	2:N:1179:GLN:C	2.49	0.50
1:M:1412:LEU:CD1	2:N:1207:LEU:HD11	2.41	0.50
2:N:206:GLN:NE2	2:N:206:GLN:HA	2.26	0.50
2:N:1221:SER:OG	4:P:12:ARG:CB	2.58	0.50
4:P:53:LEU:HD22	4:P:108:TYR:HE2	1.75	0.50
1:A:831:LYS:HD2	1:A:1081:MET:O	2.11	0.50
1:A:776:ILE:CG2	1:A:819:MET:SD	3.00	0.50
2:B:1001:PHE:O	2:B:1072:MET:HA	2.12	0.50
2:B:27:GLU:OE1	2:B:678:TRP:HB3	2.11	0.50
1:A:473:LEU:HD11	2:B:835:GLN:NE2	2.26	0.50
5:E:81:PHE:CD2	5:E:110:ILE:HG21	2.46	0.50
6:F:97:ARG:HG2	6:F:130:ILE:HG23	1.93	0.50
1:M:1200:ASP:HB3	1:M:1203:ARG:CB	2.41	0.50
1:M:1344:ILE:HG23	1:M:1345:GLU:N	2.26	0.50
1:M:1410:GLU:CD	1:M:1410:GLU:N	2.65	0.50
1:M:344:LYS:HE3	2:N:1151:LEU:HA	1.94	0.50
2:N:860:MET:CB	2:N:965:LYS:HG2	2.42	0.50
4:P:166:LYS:O	4:P:167:LYS:CB	2.59	0.50
4:P:49:ILE:O	4:P:49:ILE:HG22	2.11	0.50
5:Q:81:PHE:HA	5:Q:110:ILE:HG22	1.92	0.50
11:W:47:ARG:HH11	11:W:47:ARG:HB3	1.75	0.50
1:A:101:LYS:HA	1:A:104:GLU:OE1	2.12	0.50
1:A:1386:ALA:O	1:A:1391:GLY:HA3	2.12	0.50
1:A:227:GLU:O	1:A:227:GLU:HG2	2.10	0.50
1:A:404:LYS:HG3	1:A:404:LYS:O	2.10	0.50
2:B:280:ALA:CA	2:B:322:ALA:HB1	2.42	0.50
2:B:227:HIS:CE1	2:B:382:ALA:HA	2.47	0.50
3:C:31:SER:OG	11:K:45:LEU:HD13	2.11	0.50
4:D:138:HIS:O	4:D:140:PHE:N	2.45	0.50
4:D:49:ILE:HG22	4:D:49:ILE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:43:TYR:H	10:J:43:TYR:HD2	1.58	0.50
1:M:471:LEU:C	1:M:471:LEU:HD12	2.31	0.50
1:M:810:THR:O	1:M:811:PRO:C	2.50	0.50
1:M:854:ASP:CG	1:M:856:THR:HG22	2.32	0.50
2:N:1106:ARG:CZ	2:N:1109:GLY:H	2.24	0.50
1:M:413:ARG:NH2	2:N:1108:ARG:NH2	2.59	0.50
2:N:228:VAL:HG22	2:N:248:LYS:HA	1.93	0.50
2:N:252:ARG:HB3	2:N:252:ARG:HH11	1.76	0.50
2:N:227:HIS:CE1	2:N:382:ALA:HA	2.47	0.50
2:N:196:ILE:HD11	2:N:454:LEU:HD23	1.94	0.50
2:N:572:ARG:HG2	2:N:572:ARG:HH11	1.76	0.50
2:N:777:ALA:CB	2:N:1093:GLN:HB3	2.42	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	2.11	0.50
2:N:954:LEU:HA	2:N:964:VAL:HG22	1.93	0.50
3:O:179:GLU:HG2	3:O:180:TYR:N	2.26	0.50
3:O:201:TRP:CE3	3:O:202:PRO:HD2	2.45	0.50
1:A:1172:VAL:HG12	1:A:1176:PHE:CE1	2.47	0.50
1:A:338:ARG:CG	2:B:1132:GLU:OE1	2.60	0.50
2:B:1183:ARG:C	2:B:1185:CYS:H	2.15	0.50
2:B:1115:THR:O	2:B:1198:TYR:CG	2.64	0.50
2:B:1158:PHE:HE2	2:B:1201:LYS:HD2	1.76	0.50
2:B:777:ALA:CB	2:B:1093:GLN:HB3	2.42	0.50
5:E:164:LEU:HD22	5:E:169:LEU:HB2	1.93	0.50
7:G:87:VAL:HG21	7:G:103:VAL:HG11	1.94	0.50
7:G:114:LEU:HB3	7:G:162:SER:CB	2.42	0.50
7:G:38:CYS:SG	7:G:157:ILE:HG13	2.52	0.50
11:K:68:PHE:N	11:K:68:PHE:CD2	2.76	0.50
1:M:418:TYR:O	1:M:419:HIS:C	2.50	0.50
1:M:943:PHE:CD2	1:M:944:LEU:HD23	2.44	0.50
2:N:1163:CYS:HB3	2:N:1166:CYS:O	2.12	0.50
2:N:587:SER:HA	2:N:610:ARG:HH12	1.76	0.50
3:O:99:GLU:CG	3:O:121:VAL:HG22	2.41	0.50
4:P:94:SER:O	4:P:96:ALA:N	2.45	0.50
5:Q:113:ASN:O	5:Q:114:ASN:HB3	2.12	0.50
5:Q:32:GLU:O	5:Q:35:ASP:N	2.45	0.50
8:T:12:VAL:HG13	8:T:26:ILE:CG2	2.41	0.50
8:T:12:VAL:HG13	8:T:26:ILE:HG21	1.93	0.50
10:V:43:TYR:H	10:V:43:TYR:HD2	1.58	0.50
11:W:5:ASP:HB3	11:W:7:PHE:CE2	2.46	0.50
1:A:218:GLU:O	1:A:222:ARG:CG	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:615:PHE:HB3	8:H:121:LEU:HD21	1.94	0.50
2:B:1106:ARG:CZ	2:B:1109:GLY:H	2.24	0.50
2:B:195:VAL:HG13	2:B:198:GLY:O	2.12	0.50
2:B:281:LEU:HD21	2:B:364:GLU:O	2.11	0.50
4:D:106:LEU:O	4:D:110:ASN:HB2	2.12	0.50
5:E:146:HIS:CD2	5:E:148:LEU:H	2.29	0.50
5:E:32:GLU:O	5:E:35:ASP:N	2.45	0.50
7:G:1:MET:O	7:G:3:PHE:CE1	2.64	0.50
10:J:42:ARG:CD	10:J:42:ARG:N	2.71	0.50
1:M:1076:GLU:HB3	1:M:1077:PRO:HD3	1.93	0.50
1:M:1405:PHE:CZ	1:M:1406:GLU:HG3	2.47	0.50
1:M:362:LEU:HA	1:M:472:ASN:HD22	1.77	0.50
1:M:439:ASP:O	1:M:440:ASP:HB2	2.12	0.50
2:N:573:ILE:O	2:N:579:TRP:HD1	1.95	0.50
7:S:38:CYS:SG	7:S:157:ILE:HG13	2.52	0.50
9:U:56:ALA:O	9:U:57:GLY:C	2.49	0.50
1:A:999:LEU:HD13	1:A:1020:PHE:CE2	2.47	0.50
1:A:1410:GLU:CD	1:A:1410:GLU:N	2.65	0.50
1:A:286:PRO:O	1:A:288:HIS:N	2.45	0.50
1:A:456:MET:HE3	2:B:1134:GLU:HG3	1.93	0.50
1:A:623:VAL:O	1:A:623:VAL:HG13	2.11	0.50
2:B:980:PHE:C	2:B:1095:LEU:HD13	2.32	0.50
2:B:252:ARG:NH1	2:B:252:ARG:HB3	2.27	0.50
2:B:519:GLU:HB2	2:B:752:ALA:HB3	1.94	0.50
2:B:890:TYR:CA	2:B:910:ILE:CG2	2.83	0.50
1:M:445:PHE:CB	1:M:459:HIS:CD2	2.94	0.50
2:N:112:SER:HB2	2:N:161:VAL:O	2.12	0.50
5:Q:115:ILE:HG22	5:Q:119:ALA:HB3	1.94	0.50
7:S:87:VAL:HG21	7:S:103:VAL:HG11	1.94	0.50
11:W:50:LEU:C	11:W:52:LEU:H	2.14	0.50
1:A:1444:PHE:C	1:A:1444:PHE:CD1	2.86	0.49
1:A:35:ILE:O	1:A:35:ILE:CG2	2.59	0.49
2:B:572:ARG:HG2	2:B:572:ARG:HH11	1.76	0.49
2:B:860:MET:CB	2:B:965:LYS:HG2	2.42	0.49
9:I:106:CYS:SG	9:I:108:LYS:N	2.85	0.49
1:M:445:PHE:CB	1:M:459:HIS:HD2	2.24	0.49
1:M:635:MET:CG	1:M:643:CYS:SG	3.00	0.49
1:M:528:THR:HG21	1:M:651:GLN:HG3	1.94	0.49
1:M:930:LEU:HD23	1:M:985:ILE:HG21	1.94	0.49
2:N:757:PRO:HG3	2:N:1028:GLU:OE2	2.12	0.49
2:N:394:PHE:HB2	2:N:510:THR:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:97:ARG:HG2	6:R:130:ILE:HG23	1.93	0.49
11:W:21:ILE:HG23	11:W:31:ILE:CG1	2.42	0.49
12:X:57:VAL:HG23	12:X:58:ILE:H	1.77	0.49
1:A:135:PHE:HB2	1:A:224:GLY:H	1.77	0.49
1:A:249:PRO:O	1:A:261:ASP:HB2	2.11	0.49
1:A:815:PHE:O	1:A:816:PHE:C	2.49	0.49
1:A:98:LYS:O	1:A:99:ILE:C	2.50	0.49
2:B:1169:MET:HE1	2:B:1201:LYS:O	2.11	0.49
2:B:231:ILE:CG2	2:B:245:MET:HB3	2.42	0.49
3:C:99:GLU:CG	3:C:121:VAL:HG22	2.40	0.49
3:C:242:GLN:C	3:C:244:PHE:N	2.66	0.49
5:E:113:ASN:O	5:E:114:ASN:HB3	2.12	0.49
11:K:50:LEU:C	11:K:52:LEU:H	2.14	0.49
1:M:1413:PHE:C	1:M:1415:ALA:H	2.15	0.49
1:M:1437:ALA:O	1:M:1439:MET:N	2.45	0.49
1:M:40:ILE:HG22	1:M:41:MET:HG3	1.94	0.49
1:M:815:PHE:O	1:M:816:PHE:C	2.49	0.49
1:M:870:GLY:O	1:M:871:GLU:HB2	2.12	0.49
2:N:1023:VAL:O	2:N:1026:LEU:N	2.45	0.49
2:N:371:LEU:HD12	2:N:371:LEU:O	2.12	0.49
2:N:810:GLU:HA	2:N:815:ARG:NH1	2.16	0.49
3:O:65:ARG:HH21	10:V:5:VAL:H	1.60	0.49
5:Q:92:MET:CE	5:Q:119:ALA:HB1	2.42	0.49
1:A:1335:PHE:CE1	1:A:1351:LEU:HD13	2.48	0.49
1:A:219:ASP:O	1:A:220:CYS:C	2.50	0.49
1:A:362:LEU:HA	1:A:472:ASN:HD22	1.77	0.49
1:A:72:GLU:O	1:A:73:GLY:O	2.30	0.49
2:B:112:SER:HB2	2:B:161:VAL:O	2.12	0.49
2:B:1163:CYS:HB3	2:B:1166:CYS:O	2.12	0.49
2:B:551:LEU:C	2:B:553:GLU:N	2.63	0.49
4:D:166:LYS:O	4:D:167:LYS:CB	2.59	0.49
7:G:14:HIS:CD2	7:G:16:SER:CB	2.94	0.49
1:M:853:TYR:CD2	1:M:1062:PRO:HB2	2.48	0.49
1:M:1213:GLN:O	1:M:1214:VAL:C	2.51	0.49
1:M:1335:PHE:CE1	1:M:1351:LEU:HD13	2.48	0.49
1:M:244:PRO:HB2	1:M:245:PRO:HD2	1.94	0.49
1:M:601:PRO:HG2	1:M:602:LYS:H	1.77	0.49
1:M:831:LYS:HD2	1:M:1081:MET:O	2.11	0.49
2:N:1001:PHE:O	2:N:1072:MET:HA	2.12	0.49
2:N:1017:ILE:HB	2:N:1018:PRO:HD3	1.94	0.49
2:N:463:LYS:C	2:N:465:ALA:H	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:1:MET:CE	7:S:80:LYS:O	2.54	0.49
9:U:106:CYS:SG	9:U:108:LYS:N	2.85	0.49
10:V:19:ASP:O	10:V:23:ARG:HB2	2.11	0.49
10:V:2:ILE:HG23	10:V:3:ILE:H	1.74	0.49
1:A:1207:LYS:O	1:A:1208:GLN:O	2.30	0.49
1:A:41:MET:HE3	1:A:41:MET:H	1.78	0.49
1:A:574:THR:O	1:A:577:GLN:HB2	2.13	0.49
1:A:601:PRO:HG2	1:A:602:LYS:H	1.77	0.49
1:A:591:ARG:HB2	1:A:606:MET:HB3	1.94	0.49
2:B:1017:ILE:HB	2:B:1018:PRO:HD3	1.94	0.49
2:B:1198:TYR:HE2	2:B:1202:LEU:HD12	1.75	0.49
2:B:463:LYS:C	2:B:465:ALA:H	2.16	0.49
2:B:573:ILE:O	2:B:579:TRP:HD1	1.95	0.49
2:B:774:GLY:C	2:B:776:GLN:H	2.15	0.49
2:B:882:THR:HB	2:B:934:LYS:O	2.12	0.49
2:B:976:ILE:HG12	2:B:993:THR:HG23	1.93	0.49
1:A:1321:ALA:HB1	5:E:140:VAL:HG11	1.93	0.49
1:M:1386:ALA:O	1:M:1391:GLY:HA3	2.12	0.49
1:M:1444:PHE:HD1	1:M:1444:PHE:C	2.16	0.49
1:M:249:PRO:O	1:M:261:ASP:HB2	2.11	0.49
1:M:702:GLU:O	1:M:703:LEU:HG	2.13	0.49
2:N:1183:ARG:C	2:N:1185:CYS:H	2.15	0.49
2:N:654:LYS:HD3	2:N:676:TYR:CE2	2.47	0.49
2:N:705:GLU:HG3	2:N:706:ASP:H	1.77	0.49
3:O:242:GLN:C	3:O:244:PHE:N	2.66	0.49
7:S:88:ASP:CB	7:S:144:ARG:HA	2.24	0.49
7:S:145:LEU:CG	7:S:146:LYS:H	2.26	0.49
7:S:1:MET:O	7:S:3:PHE:CE1	2.65	0.49
1:A:1405:PHE:CZ	1:A:1406:GLU:HG3	2.47	0.49
1:A:1444:PHE:C	1:A:1444:PHE:HD1	2.16	0.49
1:A:19:PHE:O	1:A:1419:ALA:HA	2.12	0.49
1:A:40:ILE:HG22	1:A:41:MET:HG3	1.94	0.49
1:A:608:ILE:HG12	1:A:613:VAL:HA	1.94	0.49
1:A:648:GLY:O	1:A:652:LYS:HG3	2.11	0.49
1:A:702:GLU:O	1:A:703:LEU:HG	2.13	0.49
1:A:755:SER:H	1:A:758:ASN:HD22	1.61	0.49
1:A:854:ASP:CG	1:A:856:THR:HG22	2.32	0.49
2:B:757:PRO:HG3	2:B:1028:GLU:OE2	2.12	0.49
2:B:810:GLU:HA	2:B:815:ARG:NH1	2.16	0.49
3:C:33:ARG:HG2	3:C:34:ARG:N	2.27	0.49
4:D:158:THR:HG22	4:D:159:LEU:HD23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:122:ASN:OD1	7:G:125:ASN:HB3	2.13	0.49
8:H:25:ARG:HA	8:H:41:ASP:HA	1.95	0.49
1:M:853:TYR:OH	1:M:1444:PHE:HD2	1.94	0.49
1:M:1448:ILE:HG23	7:S:61:ILE:CG1	2.43	0.49
1:M:333:LYS:HA	1:M:338:ARG:HD2	1.94	0.49
1:M:377:TYR:OH	1:M:499:ARG:HD2	2.11	0.49
1:M:591:ARG:HB2	1:M:606:MET:HB3	1.95	0.49
1:M:902:LEU:HD22	1:M:920:ILE:HG22	1.94	0.49
1:M:999:LEU:HD13	1:M:1020:PHE:CE2	2.48	0.49
2:N:1073:TYR:CD1	2:N:1073:TYR:N	2.80	0.49
2:N:231:ILE:CG2	2:N:245:MET:HB3	2.43	0.49
4:P:138:HIS:O	4:P:140:PHE:N	2.45	0.49
4:P:95:GLY:O	4:P:96:ALA:CB	2.58	0.49
5:Q:148:LEU:O	5:Q:150:PRO:HD3	2.13	0.49
5:Q:194:VAL:HG12	5:Q:195:VAL:N	2.27	0.49
5:Q:21:MET:HB2	5:Q:186:TYR:CE1	2.48	0.49
5:Q:47:ASP:CG	5:Q:48:SER:N	2.63	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:169:GLY:O	1:A:170:ASN:C	2.49	0.49
1:A:630:LEU:CA	1:A:633:THR:HG22	2.43	0.49
1:A:874:LEU:C	1:A:1060:VAL:HG23	2.32	0.49
2:B:439:LEU:O	2:B:440:ALA:HB3	2.12	0.49
2:B:801:LYS:O	10:J:51:THR:CG2	2.56	0.49
4:D:94:SER:O	4:D:96:ALA:N	2.45	0.49
5:E:148:LEU:O	5:E:150:PRO:HD3	2.13	0.49
5:E:47:ASP:CG	5:E:48:SER:N	2.63	0.49
7:G:35:GLU:OE2	7:G:48:VAL:HG23	2.12	0.49
9:I:80:SER:HB2	9:I:103:CYS:SG	2.53	0.49
11:K:6:ARG:O	11:K:9:LEU:HG	2.13	0.49
12:L:57:VAL:HG23	12:L:58:ILE:H	1.77	0.49
1:M:874:LEU:C	1:M:1060:VAL:HG23	2.32	0.49
1:M:135:PHE:HB2	1:M:224:GLY:H	1.77	0.49
1:M:842:LEU:HD22	1:M:1374:LEU:HD22	1.94	0.49
1:M:286:PRO:O	1:M:288:HIS:N	2.45	0.49
1:M:90:VAL:CG1	1:M:298:GLN:NE2	2.75	0.49
1:M:476:THR:CG2	1:M:477:SER:H	2.25	0.49
1:M:377:TYR:CZ	1:M:499:ARG:HD2	2.48	0.49
1:M:72:GLU:O	1:M:73:GLY:O	2.30	0.49
1:M:344:LYS:O	2:N:1129:ARG:CG	2.61	0.49
2:N:370:PHE:C	2:N:372:GLY:N	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:542:SER:H	2:N:621:THR:HG23	1.76	0.49
3:O:92:ASP:OD1	3:O:122:SER:HB2	2.12	0.49
6:R:105:ALA:HB1	6:R:106:PRO:CD	2.43	0.49
1:A:1413:PHE:C	1:A:1415:ALA:H	2.15	0.49
1:A:1450:GLU:CG	7:G:22:MET:CG	2.91	0.49
1:A:288:HIS:O	1:A:292:GLU:OE2	2.30	0.49
1:A:90:VAL:CG1	1:A:298:GLN:NE2	2.75	0.49
1:A:630:LEU:HA	1:A:633:THR:HG22	1.95	0.49
1:A:646:LEU:HD11	1:A:650:ILE:HD11	1.94	0.49
2:B:1117:GLN:NE2	2:B:1156:ASP:OD2	2.46	0.49
2:B:196:ILE:HD11	2:B:454:LEU:HD23	1.94	0.49
5:E:89:ILE:HG22	5:E:118:SER:C	2.23	0.49
5:E:115:ILE:HG22	5:E:119:ALA:HB3	1.94	0.49
1:A:853:TYR:CD1	6:F:136:ARG:HB3	2.47	0.49
7:G:160:ILE:HG22	7:G:161:GLY:H	1.75	0.49
1:M:1172:VAL:HG12	1:M:1176:PHE:CE1	2.47	0.49
1:M:1283:SER:O	1:M:1284:LYS:C	2.51	0.49
1:M:1441:THR:HB	2:N:1142:GLY:O	2.12	0.49
1:M:219:ASP:O	1:M:220:CYS:C	2.50	0.49
1:M:382:THR:O	1:M:384:TYR:N	2.45	0.49
1:M:338:ARG:HG3	1:M:840:ARG:NH2	2.28	0.49
1:M:899:TYR:HB2	1:M:934:TYR:CE1	2.48	0.49
1:M:98:LYS:O	1:M:99:ILE:C	2.50	0.49
2:N:280:ALA:CA	2:N:322:ALA:HB1	2.42	0.49
1:M:786:PRO:HG2	2:N:700:ILE:HD12	1.95	0.49
2:N:825:VAL:CG1	2:N:826:ALA:N	2.76	0.49
2:N:834:ASN:O	2:N:1013:ASN:HB2	2.13	0.49
2:N:980:PHE:C	2:N:1095:LEU:HD13	2.32	0.49
5:Q:92:MET:HE3	5:Q:119:ALA:HB1	1.95	0.49
7:S:117:ASP:C	7:S:119:LEU:H	2.16	0.49
9:U:80:SER:HB2	9:U:103:CYS:SG	2.53	0.49
12:X:61:ALA:O	12:X:62:ARG:O	2.30	0.49
1:A:1084:ASN:HB3	1:A:1086:PHE:CD1	2.41	0.49
1:A:1447:MET:CE	6:F:135:ARG:HB2	2.42	0.49
1:A:386:ILE:CG2	1:A:387:HIS:N	2.75	0.49
1:A:601:PRO:C	1:A:603:ASP:H	2.15	0.49
1:A:801:VAL:HG22	1:A:813:GLU:CB	2.43	0.49
2:B:834:ASN:O	2:B:1013:ASN:HB2	2.13	0.49
2:B:1130:PHE:O	2:B:1131:GLY:O	2.31	0.49
2:B:12:ILE:HG23	2:B:652:ILE:CD1	2.42	0.49
2:B:821:GLN:HE22	2:B:851:PHE:N	2.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:825:VAL:CG1	2:B:826:ALA:N	2.76	0.49
2:B:866:PHE:C	2:B:868:ILE:N	2.66	0.49
4:D:95:GLY:O	4:D:96:ALA:CB	2.58	0.49
10:J:23:ARG:C	10:J:25:LEU:N	2.67	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	2.13	0.49
1:M:147:VAL:O	1:M:149:GLU:HG3	2.13	0.49
1:M:100:LYS:HG3	1:M:182:LEU:HD22	1.95	0.49
1:M:34:LYS:H	1:M:34:LYS:HD3	1.78	0.49
1:M:371:ILE:HD12	1:M:469:PHE:HE2	1.77	0.49
1:M:630:LEU:CA	1:M:633:THR:HG22	2.43	0.49
2:N:1106:ARG:HD3	2:N:1126:GLY:O	2.12	0.49
2:N:609:ILE:HD13	2:N:618:LYS:CB	2.43	0.49
2:N:744:HIS:O	2:N:747:MET:HB2	2.13	0.49
3:O:142:ILE:H	10:V:16:ASP:HB3	1.78	0.49
3:O:44:ALA:CA	3:O:71:LEU:HD12	2.40	0.49
5:Q:81:PHE:CG	5:Q:110:ILE:HG21	2.47	0.49
5:Q:164:LEU:HD22	5:Q:169:LEU:HB2	1.93	0.49
7:S:14:HIS:CD2	7:S:16:SER:CB	2.94	0.49
1:M:615:PHE:HB3	8:T:121:LEU:HD21	1.94	0.49
10:V:38:LEU:O	10:V:39:LYS:CB	2.61	0.49
10:V:7:CYS:CB	10:V:48:MET:HE3	2.43	0.49
1:A:874:LEU:C	1:A:1060:VAL:CG2	2.81	0.49
1:A:333:LYS:HA	1:A:338:ARG:HD2	1.94	0.49
1:A:377:TYR:CZ	1:A:499:ARG:HD2	2.48	0.49
1:A:371:ILE:HD12	1:A:469:PHE:HE2	1.77	0.49
1:A:591:ARG:HG3	1:A:591:ARG:HH11	1.76	0.49
1:A:815:PHE:O	1:A:818:ALA:N	2.45	0.49
1:A:930:LEU:HD23	1:A:985:ILE:HG21	1.94	0.49
2:B:1106:ARG:HD3	2:B:1126:GLY:O	2.12	0.49
2:B:654:LYS:HD3	2:B:676:TYR:CE2	2.48	0.49
2:B:768:THR:O	2:B:771:SER:HB2	2.13	0.49
5:E:194:VAL:HG12	5:E:195:VAL:N	2.27	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
11:K:40:HIS:ND1	11:K:61:TYR:OH	2.38	0.49
1:M:1065:MET:SD	1:M:1439:MET:CG	3.01	0.49
1:M:24:PRO:HD2	1:M:234:TRP:CD1	2.48	0.49
2:N:1135:ARG:O	2:N:1136:ASP:C	2.51	0.49
2:N:439:LEU:O	2:N:440:ALA:HB3	2.12	0.49
3:O:174:SER:O	3:O:175:ALA:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1163:THR:CG2	1:A:1165:ILE:H	2.25	0.49
1:A:476:THR:CG2	1:A:477:SER:H	2.25	0.49
1:A:635:MET:CG	1:A:643:CYS:SG	3.00	0.49
1:A:853:TYR:CD2	1:A:1062:PRO:HB2	2.47	0.49
1:A:854:ASP:OD1	1:A:856:THR:N	2.46	0.49
1:A:859:ASN:ND2	1:A:861:LEU:N	2.59	0.49
1:A:870:GLY:O	1:A:871:GLU:HB2	2.12	0.49
2:B:1156:ASP:HB3	2:B:1197:PRO:HA	1.94	0.49
3:C:92:ASP:OD1	3:C:122:SER:HB2	2.12	0.49
3:C:170:TRP:O	3:C:171:SER:C	2.51	0.49
3:C:174:SER:O	3:C:175:ALA:HB3	2.13	0.49
7:G:35:GLU:CG	7:G:48:VAL:HG23	2.43	0.49
11:K:49:GLU:HG3	11:K:94:ILE:CG1	2.34	0.49
1:M:646:LEU:HD11	1:M:650:ILE:HD11	1.94	0.49
1:M:854:ASP:OD1	1:M:856:THR:N	2.46	0.49
1:M:869:TYR:HE1	1:M:1066:VAL:CG1	2.26	0.49
2:N:980:PHE:CA	2:N:1095:LEU:HD13	2.43	0.49
2:N:519:GLU:HB2	2:N:752:ALA:HB3	1.94	0.49
2:N:812:LEU:C	2:N:814:PHE:N	2.66	0.49
1:M:853:TYR:CD1	6:R:136:ARG:HB3	2.47	0.49
6:R:76:LYS:O	6:R:79:ARG:HD3	2.13	0.49
7:S:35:GLU:CG	7:S:48:VAL:HG23	2.43	0.49
10:V:44:CYS:O	10:V:47:ARG:HG3	2.13	0.49
1:A:100:LYS:HG3	1:A:182:LEU:HD22	1.95	0.48
1:A:1276:LEU:N	1:A:1276:LEU:HD12	2.28	0.48
1:A:1371:MET:HE3	1:A:1371:MET:H	1.78	0.48
1:A:1401:MET:HB2	1:A:1429:GLU:OE2	2.13	0.48
1:A:1437:ALA:O	1:A:1439:MET:N	2.45	0.48
1:A:310:ALA:O	1:A:312:GLN:N	2.46	0.48
1:A:344:LYS:HE3	2:B:1151:LEU:HA	1.94	0.48
1:A:64:ASN:O	1:A:65:PHE:C	2.51	0.48
1:A:943:PHE:CD2	1:A:944:LEU:HD23	2.44	0.48
2:B:1023:VAL:O	2:B:1026:LEU:N	2.45	0.48
2:B:587:SER:HA	2:B:610:ARG:HH12	1.76	0.48
3:C:147:LEU:CD2	3:C:147:LEU:N	2.75	0.48
5:E:21:MET:HB2	5:E:186:TYR:CE1	2.47	0.48
4:D:105:THR:OG1	7:G:105:PRO:HD3	2.13	0.48
7:G:138:THR:CG2	7:G:139:LYS:N	2.45	0.48
10:J:44:CYS:O	10:J:47:ARG:HG3	2.13	0.48
12:L:61:ALA:O	12:L:62:ARG:O	2.30	0.48
1:M:1321:ALA:HB1	5:Q:140:VAL:HG11	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1444:PHE:CD1	1:M:1444:PHE:C	2.86	0.48
1:M:266:LYS:HE2	1:M:323:VAL:CG2	2.43	0.48
1:M:446:ASN:CB	1:M:456:MET:HG2	2.41	0.48
1:M:513:VAL:HG13	1:M:513:VAL:O	2.12	0.48
2:N:1176:LYS:C	2:N:1178:ASN:N	2.66	0.48
1:M:822:ARG:HG2	2:N:507:LEU:H	1.78	0.48
2:N:768:THR:O	2:N:771:SER:HB2	2.13	0.48
2:N:774:GLY:C	2:N:776:GLN:H	2.14	0.48
6:R:81:THR:HB	6:R:136:ARG:HH11	1.78	0.48
6:R:72:LEU:O	6:R:73:ALA:HB2	2.12	0.48
7:S:89:ALA:CB	7:S:103:VAL:HA	2.41	0.48
2:N:797:TYR:O	10:V:1:MET:HG2	2.13	0.48
1:A:22:LEU:HB2	2:B:1211:ASN:ND2	2.28	0.48
1:A:24:PRO:HD2	1:A:234:TRP:CD1	2.48	0.48
1:A:948:VAL:HG13	5:E:200:ARG:HB3	1.95	0.48
2:B:235:LEU:HD11	2:B:359:GLN:HE21	1.78	0.48
2:B:816:GLU:O	2:B:817:LEU:HD23	2.13	0.48
2:B:876:LYS:HD2	2:B:893:LEU:O	2.13	0.48
7:G:111:SER:CB	7:G:114:LEU:HD13	2.39	0.48
11:K:10:PHE:HD2	11:K:10:PHE:N	2.10	0.48
1:M:108:MET:O	1:M:110:CYS:N	2.47	0.48
1:M:1129:ASP:CB	1:M:1132:LYS:HB3	2.42	0.48
1:M:848:ASP:CB	1:M:1427:VAL:CG2	2.90	0.48
1:M:1448:ILE:HG13	7:S:61:ILE:CG1	2.37	0.48
1:M:303:THR:HG22	1:M:304:TYR:H	1.76	0.48
1:M:574:THR:O	1:M:577:GLN:HB2	2.13	0.48
1:M:608:ILE:HG12	1:M:613:VAL:HA	1.94	0.48
2:N:613:ARG:NH2	9:U:89:GLN:NE2	2.61	0.48
2:N:882:THR:HB	2:N:934:LYS:O	2.12	0.48
6:R:100:GLN:HE22	7:S:61:ILE:HD13	1.78	0.48
7:S:80:LYS:H	7:S:80:LYS:HE2	1.76	0.48
10:V:47:ARG:NE	10:V:48:MET:HE2	2.26	0.48
1:A:266:LYS:HE2	1:A:323:VAL:HG21	1.94	0.48
2:B:1069:PHE:CD1	2:B:1069:PHE:N	2.76	0.48
2:B:1159:ARG:HG3	2:B:1193:GLN:HE21	1.77	0.48
2:B:693:GLU:O	2:B:696:GLU:HB2	2.13	0.48
4:D:51:LEU:HD12	4:D:56:SER:HA	1.93	0.48
7:G:1:MET:HE1	7:G:80:LYS:H	1.78	0.48
9:I:34:TYR:C	9:I:34:TYR:CD2	2.84	0.48
2:B:613:ARG:NH2	9:I:89:GLN:NE2	2.61	0.48
11:K:7:PHE:HA	11:K:10:PHE:HE2	1.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1197:LEU:HD11	1:M:1270:MET:HE3	1.95	0.48
1:M:1266:ILE:HG22	1:M:1266:ILE:O	2.13	0.48
1:M:19:PHE:O	1:M:1419:ALA:HA	2.12	0.48
1:M:288:HIS:O	1:M:292:GLU:OE2	2.30	0.48
1:M:93:ILE:HG21	1:M:305:MET:HB2	1.95	0.48
1:M:397:PRO:HG3	1:M:417:ARG:HB3	1.95	0.48
1:M:630:LEU:HA	1:M:633:THR:HG22	1.95	0.48
1:M:75:ALA:CB	2:N:1116:ARG:NH1	2.76	0.48
1:M:815:PHE:O	1:M:818:ALA:N	2.45	0.48
1:M:874:LEU:C	1:M:1060:VAL:CG2	2.82	0.48
2:N:1162:VAL:HG12	2:N:1163:CYS:H	1.77	0.48
3:O:33:ARG:HG2	3:O:34:ARG:N	2.27	0.48
1:A:114:LEU:HD13	1:A:172:GLN:NE2	2.28	0.48
1:A:1213:GLN:O	1:A:1214:VAL:C	2.51	0.48
1:A:1266:ILE:HG22	1:A:1266:ILE:O	2.13	0.48
1:A:244:PRO:HB2	1:A:245:PRO:HD2	1.94	0.48
1:A:93:ILE:HG21	1:A:305:MET:HB2	1.95	0.48
1:A:528:THR:HG21	1:A:651:GLN:HG3	1.94	0.48
1:A:902:LEU:HD22	1:A:920:ILE:HG22	1.94	0.48
2:B:1073:TYR:N	2:B:1073:TYR:CD1	2.80	0.48
1:A:413:ARG:NH2	2:B:1108:ARG:NH2	2.59	0.48
2:B:1130:PHE:CD2	2:B:1130:PHE:O	2.66	0.48
2:B:758:PHE:HB2	2:B:1024:ALA:CB	2.41	0.48
5:E:108:ILE:O	5:E:108:ILE:HG22	2.12	0.48
5:E:92:MET:CE	5:E:119:ALA:HB1	2.42	0.48
7:G:1:MET:CE	7:G:80:LYS:O	2.54	0.48
1:M:1144:THR:O	1:M:1147:ASN:CG	2.52	0.48
1:M:476:THR:HG23	1:M:477:SER:H	1.76	0.48
1:M:742:ASN:HD22	1:M:742:ASN:C	2.15	0.48
2:N:1007:VAL:HG22	2:N:1008:PRO:CD	2.27	0.48
2:N:1130:PHE:O	2:N:1130:PHE:CD2	2.66	0.48
2:N:1130:PHE:O	2:N:1131:GLY:O	2.31	0.48
2:N:1156:ASP:HB3	2:N:1197:PRO:HA	1.95	0.48
2:N:112:SER:HB3	2:N:162:PRO:HA	1.95	0.48
2:N:890:TYR:CA	2:N:910:ILE:HG21	2.40	0.48
4:P:105:THR:OG1	7:S:105:PRO:HD3	2.12	0.48
4:P:158:THR:HG22	4:P:159:LEU:HD23	1.94	0.48
1:M:948:VAL:HG13	5:Q:200:ARG:HB3	1.95	0.48
8:T:51:GLN:O	8:T:52:ASP:HB2	2.12	0.48
8:T:58:THR:HB	8:T:142:LEU:HB2	1.96	0.48
1:A:1129:ASP:CB	1:A:1132:LYS:HB3	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1283:SER:O	1:A:1284:LYS:C	2.51	0.48
1:A:1282:ILE:HD11	1:A:1319:VAL:HG21	1.96	0.48
1:A:382:THR:O	1:A:384:TYR:N	2.45	0.48
1:A:823:GLU:O	1:A:826:ILE:HB	2.13	0.48
1:A:899:TYR:HB2	1:A:934:TYR:CE1	2.48	0.48
2:B:778:MET:HE2	2:B:1094:ARG:HD3	1.93	0.48
2:B:371:LEU:HD12	2:B:371:LEU:O	2.12	0.48
2:B:572:ARG:O	2:B:616:GLU:HA	2.13	0.48
2:B:86:ARG:HB3	2:B:87:PRO:CD	2.44	0.48
7:G:145:LEU:CG	7:G:146:LYS:H	2.26	0.48
7:G:27:ARG:CG	7:G:54:ILE:HD12	2.44	0.48
1:M:1276:LEU:HD12	1:M:1276:LEU:N	2.28	0.48
1:M:12:ARG:HG3	2:N:1192:TYR:CD2	2.49	0.48
1:M:591:ARG:HG3	1:M:591:ARG:HH11	1.76	0.48
1:M:22:LEU:HB2	2:N:1211:ASN:ND2	2.28	0.48
2:N:162:PRO:HD2	2:N:450:LEU:HD13	1.93	0.48
2:N:302:MET:O	2:N:305:MET:HB2	2.14	0.48
2:N:394:PHE:HZ	2:N:626:VAL:HG21	1.78	0.48
7:S:126:SER:HA	7:S:127:PRO:HA	1.73	0.48
8:T:138:ASN:O	8:T:139:LEU:CB	2.61	0.48
1:A:1450:GLU:HG2	7:G:22:MET:HB3	1.95	0.48
1:A:418:TYR:O	1:A:419:HIS:C	2.50	0.48
2:B:1198:TYR:C	2:B:1198:TYR:CD2	2.87	0.48
2:B:163:ILE:HG22	2:B:164:MET:N	2.28	0.48
3:C:112:ASP:HB2	3:C:114:TYR:HE1	1.76	0.48
5:E:152:HIS:O	5:E:153:ILE:CG1	2.54	0.48
8:H:38:LEU:HD12	8:H:123:CYS:O	2.14	0.48
8:H:51:GLN:O	8:H:52:ASP:HB2	2.12	0.48
8:H:4:ALA:HA	8:H:60:ALA:HB2	1.95	0.48
10:J:13:VAL:C	10:J:14:VAL:CG2	2.82	0.48
11:K:40:HIS:O	11:K:41:THR:C	2.52	0.48
1:M:1122:LEU:O	1:M:1326:ASP:HB2	2.14	0.48
1:M:266:LYS:HE2	1:M:323:VAL:HG21	1.94	0.48
2:N:1198:TYR:CD2	2:N:1198:TYR:C	2.87	0.48
2:N:16:ASP:O	2:N:18:TRP:N	2.46	0.48
2:N:33:GLN:HG3	2:N:34:GLN:N	2.24	0.48
1:M:549:ASN:HD21	11:W:47:ARG:NH2	2.12	0.48
1:A:108:MET:O	1:A:110:CYS:N	2.47	0.48
1:A:147:VAL:O	1:A:149:GLU:HG3	2.13	0.48
1:A:266:LYS:HE2	1:A:323:VAL:CG2	2.43	0.48
1:A:428:GLN:O	1:A:429:TYR:C	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:ARG:HA	2:B:1129:ARG:HA	0.69	0.48
2:B:1135:ARG:O	2:B:1136:ASP:C	2.51	0.48
2:B:1176:LYS:C	2:B:1178:ASN:N	2.66	0.48
2:B:1201:LYS:CE	2:B:1205:GLN:OE1	2.62	0.48
2:B:370:PHE:C	2:B:372:GLY:N	2.65	0.48
2:B:628:ARG:NH1	2:B:742:GLU:OE2	2.45	0.48
2:B:822:ASN:O	10:J:47:ARG:NH1	2.46	0.48
2:B:839:MET:HE2	2:B:980:PHE:CD1	2.49	0.48
4:D:141:GLU:C	4:D:143:ALA:N	2.67	0.48
6:F:76:LYS:O	6:F:79:ARG:HD3	2.13	0.48
2:B:797:TYR:O	10:J:1:MET:HG2	2.14	0.48
1:M:1282:ILE:HD11	1:M:1319:VAL:HG21	1.96	0.48
1:M:386:ILE:CG2	1:M:387:HIS:N	2.76	0.48
1:M:428:GLN:O	1:M:429:TYR:C	2.52	0.48
2:N:12:ILE:HG23	2:N:652:ILE:CD1	2.42	0.48
3:O:112:ASP:HB2	3:O:114:TYR:HE1	1.76	0.48
10:V:13:VAL:C	10:V:14:VAL:CG2	2.82	0.48
2:N:822:ASN:O	10:V:47:ARG:NH1	2.46	0.48
3:O:259:LEU:CD1	11:W:88:GLU:HA	2.44	0.48
1:A:1122:LEU:O	1:A:1326:ASP:HB2	2.13	0.48
1:A:439:ASP:O	1:A:440:ASP:HB2	2.12	0.48
1:A:476:THR:HG23	1:A:477:SER:H	1.76	0.48
2:B:16:ASP:O	2:B:18:TRP:N	2.46	0.48
2:B:744:HIS:O	2:B:747:MET:HB2	2.13	0.48
8:H:138:ASN:O	8:H:139:LEU:CB	2.61	0.48
8:H:59:LEU:O	8:H:60:ALA:HB3	2.14	0.48
1:M:310:ALA:O	1:M:312:GLN:N	2.46	0.48
1:M:519:LYS:HB2	1:M:520:PRO:HD2	1.96	0.48
1:M:640:PRO:CG	1:M:641:LYS:H	2.25	0.48
1:M:776:ILE:CG2	1:M:819:MET:SD	3.02	0.48
2:N:1149:GLU:HG3	2:N:1153:GLU:HG2	1.95	0.48
2:N:421:ILE:O	2:N:425:MET:HG3	2.13	0.48
1:M:318:LYS:N	2:N:464:LYS:HE2	2.27	0.48
2:N:509:ASN:ND2	2:N:509:ASN:H	2.07	0.48
2:N:395:GLY:CA	2:N:693:GLU:OE1	2.62	0.48
2:N:816:GLU:O	2:N:817:LEU:HD23	2.13	0.48
2:N:976:ILE:HA	2:N:990:ILE:CG2	2.43	0.48
1:A:1109:VAL:HG12	1:A:1109:VAL:O	2.14	0.48
1:A:1283:SER:O	1:A:1284:LYS:O	2.32	0.48
1:A:265:HIS:O	1:A:268:SER:N	2.47	0.48
1:A:549:ASN:HD21	11:K:47:ARG:NH2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:566:ILE:HG22	1:A:570:LYS:O	2.14	0.48
1:A:630:LEU:C	1:A:633:THR:HG22	2.35	0.48
1:A:710:THR:HG23	9:I:94:ASP:HA	1.96	0.48
1:A:742:ASN:C	1:A:742:ASN:HD22	2.15	0.48
1:A:747:MET:HE1	2:B:1014:PRO:O	2.13	0.48
2:B:980:PHE:CA	2:B:1095:LEU:HD13	2.43	0.48
2:B:1100:ASP:OD2	11:K:1:MET:CB	2.62	0.48
2:B:112:SER:HB3	2:B:162:PRO:HA	1.96	0.48
1:A:786:PRO:HG2	2:B:700:ILE:HD12	1.94	0.48
5:E:179:ARG:NH2	5:E:191:ARG:HB2	2.29	0.48
5:E:84:GLU:O	5:E:86:SER:N	2.39	0.48
1:A:1061:HIS:ND1	6:F:86:THR:HA	2.29	0.48
8:H:90:ASP:O	8:H:92:TYR:N	2.41	0.48
1:M:343:GLY:C	2:N:1129:ARG:CZ	2.82	0.48
1:M:355:SER:HA	1:M:483:PHE:CD2	2.49	0.48
1:M:55:ASP:O	1:M:57:LYS:N	2.46	0.48
1:M:75:ALA:HB1	2:N:1116:ARG:NH1	2.28	0.48
2:N:1013:ASN:OD1	2:N:1015:HIS:CD2	2.67	0.48
2:N:1100:ASP:OD2	11:W:1:MET:CB	2.62	0.48
5:Q:127:SER:HA	5:Q:128:PRO:C	2.34	0.48
5:Q:179:ARG:NH2	5:Q:191:ARG:HB2	2.29	0.48
1:A:869:TYR:HE1	1:A:1066:VAL:CG1	2.26	0.48
1:A:306:ASP:CG	1:A:327:ARG:HD3	2.34	0.48
1:A:439:ASP:OD1	1:A:463:VAL:HG23	2.14	0.48
1:A:356:GLY:HA2	1:A:471:LEU:O	2.14	0.48
1:A:513:VAL:HA	1:A:520:PRO:HA	1.96	0.48
1:A:850:MET:HE1	1:A:1063:GLY:HA2	1.95	0.48
2:B:1187:ASN:OD1	2:B:1188:LYS:N	2.47	0.48
2:B:203:LEU:HD13	2:B:405:LEU:HD12	1.95	0.48
8:H:15:VAL:HA	8:H:26:ILE:HG12	1.95	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:1123:ASP:O	1:M:1124:ARG:C	2.53	0.48
1:M:253:MET:O	1:M:254:ASP:CB	2.59	0.48
1:M:306:ASP:CG	1:M:327:ARG:HD3	2.34	0.48
1:M:566:ILE:O	1:M:571:PRO:HA	2.14	0.48
1:M:651:GLN:HG2	1:M:655:ASN:HD21	1.78	0.48
1:M:684:ILE:HG21	1:M:802:GLU:HG3	1.96	0.48
1:M:1065:MET:HG3	2:N:1139:ILE:O	2.13	0.48
2:N:18:TRP:HA	2:N:18:TRP:CE3	2.48	0.48
2:N:876:LYS:HD2	2:N:893:LEU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:147:LEU:CD2	3:O:147:LEU:N	2.75	0.48
4:P:160:ILE:HG22	4:P:160:ILE:O	2.14	0.48
4:P:41:HIS:HB2	7:S:73:LYS:HZ2	1.75	0.48
5:Q:108:ILE:HG22	5:Q:108:ILE:O	2.12	0.48
1:M:1061:HIS:ND1	6:R:86:THR:HA	2.29	0.48
7:S:122:ASN:OD1	7:S:125:ASN:HB3	2.13	0.48
8:T:25:ARG:HA	8:T:41:ASP:HA	1.95	0.48
10:V:23:ARG:C	10:V:25:LEU:N	2.67	0.48
11:W:6:ARG:O	11:W:9:LEU:HG	2.13	0.48
1:A:34:LYS:H	1:A:34:LYS:HD3	1.77	0.47
1:A:397:PRO:HG3	1:A:417:ARG:HB3	1.95	0.47
2:B:1013:ASN:OD1	2:B:1015:HIS:CD2	2.67	0.47
2:B:224:PRO:HG2	2:B:225:ILE:CD1	2.44	0.47
2:B:288:GLU:C	2:B:291:GLN:HB2	2.33	0.47
2:B:301:GLN:O	2:B:304:GLU:HB3	2.13	0.47
3:C:17:VAL:HG23	3:C:240:ALA:HB1	1.96	0.47
5:E:127:SER:HA	5:E:128:PRO:C	2.34	0.47
6:F:105:ALA:HB1	6:F:106:PRO:CD	2.43	0.47
9:I:100:PHE:N	9:I:100:PHE:HD1	2.12	0.47
1:M:1116:PRO:O	1:M:1117:ALA:O	2.32	0.47
1:M:64:ASN:O	1:M:65:PHE:C	2.51	0.47
2:N:1154:ALA:O	2:N:1155:SER:HB2	2.14	0.47
2:N:1159:ARG:HG3	2:N:1193:GLN:HE21	1.77	0.47
2:N:288:GLU:C	2:N:291:GLN:HB2	2.34	0.47
2:N:555:GLY:HA3	2:N:583:HIS:HE1	1.75	0.47
2:N:86:ARG:HB3	2:N:87:PRO:CD	2.44	0.47
3:O:17:VAL:HG23	3:O:240:ALA:HB1	1.96	0.47
4:P:51:LEU:HD12	4:P:56:SER:HA	1.94	0.47
5:Q:77:LEU:HD21	5:Q:79:VAL:CG2	2.44	0.47
7:S:119:LEU:HD12	7:S:131:MET:O	2.14	0.47
7:S:27:ARG:CG	7:S:54:ILE:HD12	2.44	0.47
8:T:59:LEU:O	8:T:60:ALA:HB3	2.14	0.47
1:A:1222:PHE:CE2	1:A:1266:ILE:HG23	2.49	0.47
1:A:827:ASP:C	1:A:829:ALA:H	2.18	0.47
2:B:244:THR:CG2	2:B:245:MET:N	2.77	0.47
2:B:401:LEU:O	2:B:405:LEU:HG	2.14	0.47
2:B:509:ASN:H	2:B:509:ASN:ND2	2.07	0.47
2:B:609:ILE:HD13	2:B:618:LYS:CB	2.43	0.47
3:C:129:VAL:HG22	3:C:130:GLY:N	2.28	0.47
1:A:1445:ASP:OD1	7:G:60:ARG:NH1	2.43	0.47
1:M:1337:GLU:O	1:M:1338:ILE:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1352:TYR:HA	1:M:1375:VAL:HG21	1.96	0.47
1:M:1423:ASP:O	1:M:1424:CYS:CB	2.61	0.47
1:M:144:THR:O	1:M:146:MET:HG3	2.14	0.47
1:M:566:ILE:HG22	1:M:570:LYS:O	2.14	0.47
1:M:747:MET:HE1	2:N:1014:PRO:O	2.14	0.47
2:N:1201:LYS:CE	2:N:1205:GLN:OE1	2.62	0.47
2:N:224:PRO:HG2	2:N:225:ILE:CD1	2.44	0.47
2:N:301:GLN:O	2:N:304:GLU:HB3	2.14	0.47
2:N:572:ARG:O	2:N:616:GLU:HA	2.14	0.47
2:N:612:ILE:O	2:N:614:GLU:N	2.47	0.47
2:N:607:SER:HB2	2:N:691:ASP:OD1	2.14	0.47
7:S:39:THR:O	7:S:43:GLY:N	2.32	0.47
1:A:1337:GLU:O	1:A:1338:ILE:C	2.52	0.47
2:B:1135:ARG:HG2	2:B:1139:ILE:HD11	1.96	0.47
2:B:1154:ALA:O	2:B:1155:SER:HB2	2.14	0.47
2:B:1181:GLU:HG2	2:B:1188:LYS:HG2	1.97	0.47
2:B:354:LEU:N	2:B:355:PRO:CD	2.78	0.47
2:B:562:TYR:CE1	2:B:582:ILE:HG21	2.50	0.47
2:B:607:SER:HB2	2:B:691:ASP:OD1	2.14	0.47
2:B:983:ARG:HD2	2:B:1091:TYR:CD2	2.46	0.47
7:G:89:ALA:CB	7:G:103:VAL:CA	2.91	0.47
1:M:710:THR:HG23	9:U:94:ASP:HA	1.96	0.47
2:N:163:ILE:HG22	2:N:164:MET:N	2.28	0.47
2:N:195:VAL:O	2:N:195:VAL:HG12	2.14	0.47
2:N:693:GLU:O	2:N:696:GLU:HB2	2.13	0.47
5:Q:144:THR:HG21	5:Q:186:TYR:CE2	2.50	0.47
5:Q:160:LYS:C	5:Q:162:GLN:N	2.68	0.47
9:U:100:PHE:N	9:U:100:PHE:HD1	2.12	0.47
10:V:52:HIS:NE2	10:V:54:ASP:HA	2.30	0.47
1:A:1123:ASP:O	1:A:1124:ARG:C	2.53	0.47
1:A:504:GLN:HE21	6:F:90:ARG:NH2	2.09	0.47
1:A:524:ILE:HD12	1:A:623:VAL:HG21	1.97	0.47
1:A:651:GLN:HG2	1:A:655:ASN:HD21	1.79	0.47
1:A:684:ILE:HG21	1:A:802:GLU:HG3	1.96	0.47
2:B:596:LEU:HD12	2:B:602:ILE:HG12	1.97	0.47
7:G:119:LEU:HD12	7:G:131:MET:O	2.15	0.47
8:H:58:THR:HB	8:H:142:LEU:HB2	1.96	0.47
1:M:1388:THR:O	1:M:1391:GLY:N	2.48	0.47
1:M:356:GLY:HA2	1:M:471:LEU:O	2.14	0.47
1:M:755:SER:H	1:M:758:ASN:HD22	1.60	0.47
1:M:827:ASP:C	1:M:829:ALA:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1152:MET:HE1	2:N:1157:ALA:HA	1.96	0.47
2:N:1187:ASN:OD1	2:N:1188:LYS:N	2.47	0.47
2:N:203:LEU:HD13	2:N:405:LEU:HD12	1.95	0.47
2:N:51:TRP:CG	2:N:51:TRP:CA	2.85	0.47
2:N:899:ILE:CD1	2:N:911:ILE:HG23	2.40	0.47
3:O:129:VAL:HG22	3:O:130:GLY:N	2.28	0.47
3:O:170:TRP:O	3:O:171:SER:C	2.51	0.47
8:T:38:LEU:HD12	8:T:123:CYS:O	2.14	0.47
9:U:55:THR:O	9:U:56:ALA:O	2.32	0.47
10:V:23:ARG:O	10:V:25:LEU:N	2.47	0.47
1:A:1169:PHE:O	1:A:1172:VAL:HG23	2.15	0.47
1:A:1275:ALA:C	1:A:1276:LEU:HD12	2.35	0.47
1:A:373:LYS:HA	1:A:436:HIS:HD1	1.78	0.47
1:A:429:TYR:HD1	1:A:429:TYR:H	1.62	0.47
1:A:467:SER:HA	11:K:2:ASN:HD22	1.79	0.47
1:A:519:LYS:HB2	1:A:520:PRO:HD2	1.96	0.47
1:A:852:HIS:HB2	1:A:856:THR:HG23	1.96	0.47
2:B:992:VAL:CG2	2:B:993:THR:N	2.78	0.47
7:G:149:GLY:O	7:G:159:ALA:HB1	2.15	0.47
1:M:1195:LEU:HB2	1:M:1263:LEU:HD11	1.96	0.47
1:M:1241:ARG:NH2	1:M:1243:ARG:HH22	2.03	0.47
2:N:1047:PHE:N	2:N:1047:PHE:CD1	2.80	0.47
2:N:1159:ARG:NH1	2:N:1159:ARG:CB	2.66	0.47
2:N:305:MET:O	2:N:308:PRO:HD2	2.15	0.47
2:N:235:LEU:HD11	2:N:359:GLN:HE21	1.78	0.47
1:A:890:SER:HB3	1:A:1300:GLU:HG2	1.96	0.47
2:B:491:THR:HG21	2:B:530:LYS:HB2	1.96	0.47
2:B:812:LEU:C	2:B:814:PHE:N	2.66	0.47
2:B:83:TYR:N	2:B:83:TYR:CD1	2.83	0.47
2:B:976:ILE:HA	2:B:990:ILE:CG2	2.43	0.47
1:A:1342:LEU:HD23	5:E:143:ILE:HG22	1.96	0.47
3:C:65:ARG:HH21	10:J:5:VAL:H	1.60	0.47
1:M:429:TYR:H	1:M:429:TYR:HD1	1.62	0.47
1:M:630:LEU:C	1:M:633:THR:HG22	2.35	0.47
1:M:67:CYS:O	1:M:68:GLN:CB	2.63	0.47
1:M:823:GLU:O	1:M:826:ILE:HB	2.13	0.47
1:M:965:ILE:HD13	1:M:1051:ILE:HG12	1.96	0.47
2:N:221:ALA:N	2:N:222:PRO:HD2	2.30	0.47
2:N:401:LEU:O	2:N:405:LEU:HG	2.14	0.47
2:N:839:MET:HE2	2:N:980:PHE:CD1	2.49	0.47
5:Q:142:ASN:ND2	5:Q:144:THR:OG1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:81:PHE:N	5:Q:81:PHE:CD1	2.83	0.47
8:T:15:VAL:HA	8:T:26:ILE:HG12	1.95	0.47
10:V:27:GLU:C	10:V:29:LYS:N	2.68	0.47
12:X:32:THR:HG22	12:X:33:CYS:H	1.79	0.47
1:A:263:LEU:C	1:A:265:HIS:N	2.67	0.47
1:A:843:VAL:C	1:A:845:ALA:N	2.68	0.47
2:B:18:TRP:CE3	2:B:18:TRP:HA	2.48	0.47
2:B:221:ALA:N	2:B:222:PRO:HD2	2.30	0.47
2:B:279:ARG:NH1	2:B:316:ILE:O	2.48	0.47
4:D:160:ILE:O	4:D:160:ILE:HG22	2.15	0.47
5:E:181:ASP:HB3	5:E:184:ALA:CB	2.45	0.47
9:I:7:CYS:HB3	9:I:14:LEU:HD21	1.97	0.47
3:C:142:ILE:H	10:J:16:ASP:HB3	1.78	0.47
10:J:23:ARG:O	10:J:25:LEU:N	2.47	0.47
11:K:63:VAL:O	11:K:63:VAL:HG23	2.15	0.47
3:C:259:LEU:CD1	11:K:88:GLU:HA	2.44	0.47
12:L:32:THR:HG22	12:L:33:CYS:H	1.79	0.47
1:M:1393:ASN:CB	1:M:1405:PHE:HD2	2.27	0.47
2:N:777:ALA:HB1	2:N:1093:GLN:HB3	1.97	0.47
2:N:489:ARG:NH1	2:N:532:LEU:HB2	2.30	0.47
2:N:83:TYR:CD1	2:N:83:TYR:N	2.83	0.47
1:M:467:SER:HA	11:W:2:ASN:HD22	1.79	0.47
11:W:40:HIS:O	11:W:41:THR:C	2.52	0.47
11:W:7:PHE:HA	11:W:10:PHE:HE2	1.76	0.47
1:A:1006:ASN:O	1:A:1010:LYS:CG	2.62	0.47
1:A:1144:THR:O	1:A:1147:ASN:CG	2.52	0.47
1:A:1156:TYR:CE2	1:A:1158:PRO:HD3	2.49	0.47
1:A:1268:ALA:O	1:A:1271:LEU:N	2.47	0.47
1:A:1352:TYR:HA	1:A:1375:VAL:HG21	1.96	0.47
1:A:253:MET:O	1:A:254:ASP:CB	2.59	0.47
1:A:381:VAL:CG1	1:A:386:ILE:HG12	2.45	0.47
1:A:591:ARG:HH22	1:A:621:LYS:HB3	1.67	0.47
1:A:854:ASP:OD1	1:A:854:ASP:C	2.53	0.47
1:A:965:ILE:HD13	1:A:1051:ILE:HG12	1.96	0.47
2:B:199:SER:OG	2:B:201:LYS:NZ	2.48	0.47
2:B:239:SER:O	2:B:240:ARG:HB2	2.15	0.47
2:B:302:MET:O	2:B:305:MET:HB2	2.14	0.47
5:E:59:PHE:CD2	5:E:59:PHE:C	2.87	0.47
1:M:900:VAL:CG2	1:M:1031:ARG:HG2	2.41	0.47
1:M:1169:PHE:O	1:M:1172:VAL:HG23	2.15	0.47
1:M:1263:LEU:O	1:M:1263:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:265:HIS:O	1:M:268:SER:N	2.47	0.47
1:M:297:LEU:O	1:M:301:VAL:HG23	2.15	0.47
1:M:801:VAL:HG11	1:M:809:LEU:CD1	2.44	0.47
2:N:219:LYS:O	2:N:220:ALA:O	2.32	0.47
4:P:56:SER:O	4:P:60:ILE:HG13	2.15	0.47
7:S:149:GLY:O	7:S:159:ALA:HB1	2.15	0.47
1:A:1215:ALA:O	1:A:1216:ASP:C	2.53	0.47
1:A:12:ARG:HB2	2:B:1218:THR:HG21	1.97	0.47
1:A:144:THR:O	1:A:146:MET:HG3	2.14	0.47
1:A:493:PRO:O	1:A:494:GLN:NE2	2.48	0.47
1:A:566:ILE:O	1:A:571:PRO:HA	2.15	0.47
1:A:640:PRO:CG	1:A:641:LYS:H	2.25	0.47
1:A:846:LEU:O	1:A:847:GLU:C	2.53	0.47
2:B:421:ILE:O	2:B:425:MET:HG3	2.13	0.47
2:B:489:ARG:NH1	2:B:532:LEU:HB2	2.30	0.47
2:B:53:GLU:O	2:B:53:GLU:CG	2.63	0.47
2:B:540:ILE:H	2:B:605:GLU:CD	2.19	0.47
2:B:549:ASN:C	2:B:551:LEU:H	2.18	0.47
2:B:755:ILE:HG22	2:B:809:MET:HE1	1.97	0.47
3:C:168:ALA:C	3:C:170:TRP:H	2.18	0.47
1:A:1342:LEU:HD13	5:E:146:HIS:CG	2.50	0.47
12:L:62:ARG:HG2	12:L:63:THR:N	2.30	0.47
1:M:1004:GLY:CA	1:M:1009:ILE:HG21	2.45	0.47
1:M:1156:TYR:CE2	1:M:1158:PRO:HD3	2.49	0.47
1:M:1222:PHE:CE2	1:M:1266:ILE:HG23	2.49	0.47
1:M:1268:ALA:O	1:M:1271:LEU:N	2.47	0.47
1:M:167:GLY:O	1:M:168:CYS:SG	2.72	0.47
1:M:381:VAL:CG1	1:M:386:ILE:HG12	2.44	0.47
1:M:402:GLY:O	1:M:436:HIS:CD2	2.68	0.47
1:M:493:PRO:O	1:M:494:GLN:NE2	2.48	0.47
1:M:67:CYS:O	1:M:68:GLN:HB2	2.15	0.47
1:M:775:ARG:HG2	1:M:775:ARG:H	1.40	0.47
1:M:351:ARG:HD2	2:N:1128:LEU:CD2	2.45	0.47
2:N:1117:GLN:NE2	2:N:1156:ASP:OD1	2.43	0.47
2:N:199:SER:OG	2:N:201:LYS:NZ	2.48	0.47
2:N:354:LEU:N	2:N:355:PRO:CD	2.77	0.47
2:N:549:ASN:C	2:N:551:LEU:H	2.18	0.47
1:M:783:ARG:NH2	2:N:696:GLU:O	2.47	0.47
2:N:827:ILE:HG22	2:N:827:ILE:O	2.14	0.47
1:M:538:ARG:NH2	8:T:121:LEU:HD12	2.25	0.47
8:T:4:ALA:HA	8:T:60:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:7:CYS:HB3	9:U:14:LEU:HD21	1.97	0.47
1:A:63:ARG:HA	1:A:74:MET:SD	2.55	0.47
1:A:689:GLU:C	1:A:691:VAL:H	2.18	0.47
1:A:827:ASP:C	1:A:829:ALA:N	2.67	0.47
2:B:839:MET:CE	2:B:1010:LEU:HD21	2.45	0.47
2:B:219:LYS:O	2:B:220:ALA:O	2.32	0.47
2:B:33:GLN:HG3	2:B:34:GLN:N	2.24	0.47
4:D:182:GLU:O	4:D:183:ASP:C	2.53	0.47
4:D:41:HIS:C	4:D:41:HIS:ND1	2.68	0.47
5:E:160:LYS:C	5:E:162:GLN:N	2.68	0.47
6:F:111:ILE:C	6:F:113:GLY:H	2.18	0.47
2:B:286:ASP:HB2	9:I:12:ASN:HA	1.97	0.47
1:M:1215:ALA:O	1:M:1216:ASP:C	2.53	0.47
1:M:360:LEU:O	1:M:361:GLU:C	2.53	0.47
1:M:568:LYS:HB3	8:T:94:TYR:C	2.35	0.47
1:M:827:ASP:C	1:M:829:ALA:N	2.67	0.47
1:M:931:ASN:O	1:M:932:SER:C	2.53	0.47
2:N:1135:ARG:HG2	2:N:1139:ILE:HD11	1.96	0.47
2:N:316:ILE:HG23	2:N:321:VAL:HB	1.97	0.47
2:N:597:ARG:NH1	2:N:688:GLU:OE2	2.48	0.47
2:N:770:GLN:OE1	2:N:983:ARG:HA	2.15	0.47
1:M:496:GLU:CB	6:R:99:LEU:CA	2.93	0.47
10:V:43:TYR:N	10:V:43:TYR:CD2	2.82	0.47
1:A:1241:ARG:HH12	1:A:1243:ARG:HH12	1.62	0.47
1:A:12:ARG:HG3	2:B:1192:TYR:CD2	2.49	0.47
1:A:1397:THR:HG22	1:A:1401:MET:SD	2.51	0.47
1:A:355:SER:HA	1:A:483:PHE:CD2	2.49	0.47
1:A:542:ILE:HD13	1:A:550:MET:HE1	1.96	0.47
1:A:55:ASP:O	1:A:57:LYS:N	2.46	0.47
1:A:762:MET:HA	1:A:805:TYR:HB2	1.96	0.47
1:A:940:ASP:O	1:A:943:PHE:N	2.48	0.47
1:A:962:LEU:CA	1:A:965:ILE:HG22	2.44	0.47
2:B:1010:LEU:HD22	2:B:1092:TYR:CE1	2.50	0.47
2:B:555:GLY:HA3	2:B:583:HIS:HE1	1.75	0.47
2:B:702:MET:CE	2:B:702:MET:HA	2.45	0.47
2:B:782:LEU:CD1	2:B:788:ARG:NH1	2.76	0.47
2:B:873:GLU:HB2	2:B:915:THR:OG1	2.16	0.47
5:E:62:ASN:HB3	5:E:63:PRO:HD2	1.97	0.47
1:M:850:MET:CE	1:M:1063:GLY:HA2	2.45	0.47
1:M:890:SER:HB3	1:M:1300:GLU:HG2	1.96	0.47
1:M:20:GLY:C	1:M:21:LEU:HD23	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:456:MET:HE1	2:N:1134:GLU:HB3	1.97	0.47
1:M:513:VAL:HA	1:M:520:PRO:HA	1.96	0.47
1:M:666:GLY:O	1:M:668:GLY:N	2.48	0.47
1:M:963:ARG:HG3	1:M:963:ARG:HH11	1.80	0.47
1:M:346:VAL:HG21	2:N:1130:PHE:HB2	1.96	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:348:ILE:O	2:N:348:ILE:HG22	2.15	0.47
3:O:218:VAL:HG13	3:O:218:VAL:H	1.22	0.47
4:P:141:GLU:C	4:P:143:ALA:N	2.67	0.47
5:Q:59:PHE:CD2	5:Q:59:PHE:C	2.87	0.47
11:W:63:VAL:HG23	11:W:63:VAL:O	2.15	0.47
1:A:900:VAL:CG2	1:A:1031:ARG:HG2	2.41	0.46
1:A:1300:GLU:H	1:A:1300:GLU:HG3	1.45	0.46
1:A:1388:THR:O	1:A:1391:GLY:N	2.48	0.46
1:A:549:ASN:ND2	11:K:47:ARG:HH21	2.13	0.46
1:A:601:PRO:HA	8:H:25:ARG:NH1	2.31	0.46
1:A:850:MET:CE	1:A:1063:GLY:HA2	2.45	0.46
2:B:176:ASP:H	2:B:179:ASP:HB2	1.80	0.46
4:D:54:SER:CB	4:D:113:ALA:HB1	2.45	0.46
7:G:80:LYS:HE2	7:G:80:LYS:H	1.77	0.46
10:J:43:TYR:CD2	10:J:43:TYR:N	2.82	0.46
1:M:853:TYR:CE2	1:M:1062:PRO:HB2	2.50	0.46
2:N:1031:LEU:HD11	2:N:1042:GLY:HA3	1.96	0.46
2:N:1069:PHE:N	2:N:1069:PHE:CD1	2.76	0.46
2:N:702:MET:CE	2:N:702:MET:HA	2.45	0.46
2:N:983:ARG:HD2	2:N:1091:TYR:CD2	2.46	0.46
4:P:54:SER:CB	4:P:113:ALA:HB1	2.45	0.46
1:A:1116:PRO:O	1:A:1117:ALA:O	2.32	0.46
1:A:1282:ILE:CD1	1:A:1319:VAL:HG21	2.45	0.46
1:A:297:LEU:O	1:A:301:VAL:HG23	2.15	0.46
1:A:666:GLY:O	1:A:668:GLY:N	2.48	0.46
1:A:802:GLU:OE1	2:B:726:ILE:HD12	2.16	0.46
1:A:960:VAL:HG11	1:A:1051:ILE:HG23	1.97	0.46
2:B:777:ALA:HB1	2:B:1093:GLN:HB3	1.97	0.46
2:B:215:GLN:O	2:B:229:ALA:HA	2.15	0.46
2:B:229:ALA:O	2:B:247:ILE:HG22	2.15	0.46
2:B:538:ILE:HG22	2:B:539:SER:O	2.16	0.46
2:B:597:ARG:NH1	2:B:688:GLU:OE2	2.48	0.46
2:B:827:ILE:HG22	2:B:827:ILE:O	2.14	0.46
2:B:831:SER:CB	2:B:994:TYR:OH	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:183:HIS:O	3:C:185:LYS:N	2.49	0.46
5:E:81:PHE:CD1	5:E:81:PHE:N	2.83	0.46
8:H:40:LEU:HD12	8:H:41:ASP:N	2.30	0.46
10:J:47:ARG:HD2	10:J:47:ARG:C	2.36	0.46
1:M:1343:GLY:O	1:M:1344:ILE:C	2.53	0.46
1:M:1393:ASN:HB2	1:M:1405:PHE:CD2	2.50	0.46
1:M:439:ASP:OD1	1:M:463:VAL:HG23	2.14	0.46
1:M:666:GLY:O	1:M:667:ILE:C	2.54	0.46
1:M:846:LEU:O	1:M:847:GLU:C	2.53	0.46
2:N:1010:LEU:HD22	2:N:1092:TYR:CE1	2.50	0.46
2:N:1161:HIS:CE1	2:N:1193:GLN:HB2	2.50	0.46
2:N:176:ASP:H	2:N:179:ASP:HB2	1.80	0.46
2:N:562:TYR:CE1	2:N:582:ILE:HG21	2.50	0.46
2:N:575:VAL:HG23	2:N:619:ILE:CD1	2.45	0.46
7:S:153:ASP:CG	7:S:154:VAL:N	2.67	0.46
8:T:40:LEU:HD12	8:T:41:ASP:N	2.30	0.46
8:T:4:ALA:HA	8:T:60:ALA:CB	2.45	0.46
1:A:1263:LEU:O	1:A:1263:LEU:HG	2.14	0.46
1:A:505:LEU:HD11	6:F:91:ALA:HB1	1.96	0.46
1:A:786:PRO:CB	2:B:700:ILE:HD12	2.45	0.46
1:A:801:VAL:CG1	1:A:809:LEU:CG	2.84	0.46
1:A:342:MET:CE	1:A:844:LYS:HZ1	2.25	0.46
1:A:931:ASN:O	1:A:932:SER:C	2.53	0.46
2:B:187:PRO:HG2	2:B:188:TYR:H	1.80	0.46
2:B:416:LYS:HB2	2:B:416:LYS:HZ2	1.80	0.46
2:B:612:ILE:O	2:B:614:GLU:N	2.47	0.46
2:B:797:TYR:HB3	2:B:798:TYR:HD2	1.79	0.46
2:B:880:ALA:HB3	2:B:934:LYS:HD2	1.96	0.46
5:E:142:ASN:ND2	5:E:144:THR:OG1	2.48	0.46
5:E:144:THR:HG21	5:E:186:TYR:CE2	2.50	0.46
7:G:7:LEU:HD11	7:G:45:ILE:HD11	1.98	0.46
8:H:4:ALA:HA	8:H:60:ALA:CB	2.45	0.46
1:M:1275:ALA:C	1:M:1276:LEU:HD12	2.35	0.46
1:M:1282:ILE:CD1	1:M:1319:VAL:HG21	2.45	0.46
1:M:1283:SER:O	1:M:1284:LYS:O	2.31	0.46
1:M:1371:MET:H	1:M:1371:MET:HE3	1.79	0.46
1:M:263:LEU:C	1:M:265:HIS:N	2.68	0.46
1:M:475:VAL:HG22	1:M:475:VAL:O	2.14	0.46
1:M:624:GLY:C	1:M:626:GLY:H	2.18	0.46
1:M:63:ARG:HA	1:M:74:MET:SD	2.55	0.46
1:M:940:ASP:O	1:M:943:PHE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1159:ARG:HD3	2:N:1193:GLN:CG	2.41	0.46
2:N:20:VAL:HG21	2:N:631:PHE:HZ	1.81	0.46
2:N:405:LEU:HB3	2:N:459:TRP:HZ2	1.78	0.46
2:N:602:ILE:O	2:N:602:ILE:HG13	2.16	0.46
2:N:752:ALA:O	2:N:755:ILE:HG13	2.15	0.46
2:N:890:TYR:CA	2:N:910:ILE:CG2	2.83	0.46
1:M:699:GLN:NE2	9:U:99:LEU:HD21	2.29	0.46
1:A:1007:GLU:O	1:A:1008:LEU:C	2.53	0.46
1:A:1195:LEU:HB2	1:A:1263:LEU:HD11	1.96	0.46
1:A:666:GLY:O	1:A:667:ILE:C	2.54	0.46
1:A:667:ILE:HD12	1:A:668:GLY:N	2.26	0.46
1:A:67:CYS:O	1:A:68:GLN:CB	2.63	0.46
1:A:771:VAL:O	1:A:773:GLY:N	2.49	0.46
2:B:737:THR:HG22	9:I:66:PRO:HA	1.98	0.46
2:B:752:ALA:O	2:B:755:ILE:HG13	2.15	0.46
2:B:770:GLN:OE1	2:B:983:ARG:HA	2.15	0.46
2:B:969:ARG:HG2	2:B:970:THR:N	2.30	0.46
3:C:26:LEU:O	3:C:27:SER:C	2.54	0.46
7:G:132:SER:HB3	7:G:135:GLU:HB2	1.97	0.46
1:A:497:GLU:OE1	7:G:63:PRO:O	2.32	0.46
9:I:55:THR:O	9:I:56:ALA:O	2.32	0.46
10:J:27:GLU:C	10:J:29:LYS:N	2.68	0.46
1:M:567:LEU:O	1:M:568:LYS:O	2.34	0.46
2:N:1220:ARG:NH1	2:N:1220:ARG:CB	2.77	0.46
3:O:16:GLU:O	3:O:17:VAL:HG23	2.15	0.46
3:O:183:HIS:O	3:O:185:LYS:N	2.49	0.46
4:P:25:ALA:HB3	4:P:27:LEU:CG	2.45	0.46
4:P:94:SER:C	4:P:96:ALA:N	2.69	0.46
5:Q:62:ASN:HB3	5:Q:63:PRO:HD2	1.97	0.46
7:S:35:GLU:HG2	7:S:48:VAL:HG23	1.98	0.46
12:X:62:ARG:HG2	12:X:63:THR:N	2.30	0.46
1:A:475:VAL:HG22	1:A:475:VAL:O	2.14	0.46
2:B:1132:GLU:O	2:B:1135:ARG:N	2.49	0.46
2:B:195:VAL:O	2:B:195:VAL:HG12	2.14	0.46
2:B:602:ILE:HG13	2:B:602:ILE:O	2.16	0.46
2:B:879:ARG:HB3	2:B:880:ALA:H	1.52	0.46
2:B:898:LEU:HD13	2:B:952:VAL:HG11	1.97	0.46
6:F:74:ILE:HG22	6:F:74:ILE:O	2.16	0.46
7:G:153:ASP:CG	7:G:154:VAL:N	2.67	0.46
8:H:36:ILE:CA	8:H:36:ILE:CG1	2.82	0.46
1:M:1030:THR:HG22	1:M:1034:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:114:LEU:HD13	1:M:172:GLN:NE2	2.28	0.46
1:M:1241:ARG:HH12	1:M:1243:ARG:HH12	1.62	0.46
1:M:1342:LEU:HD23	5:Q:143:ILE:HG22	1.97	0.46
1:M:1447:MET:HB2	1:M:1447:MET:HE3	1.70	0.46
1:M:41:MET:H	1:M:41:MET:HE3	1.79	0.46
1:M:771:VAL:O	1:M:773:GLY:N	2.49	0.46
1:M:852:HIS:HB2	1:M:856:THR:HG23	1.96	0.46
1:M:973:PHE:N	1:M:973:PHE:CD1	2.83	0.46
2:N:363:PHE:O	2:N:364:GLU:C	2.53	0.46
2:N:491:THR:HG21	2:N:530:LYS:HB2	1.96	0.46
2:N:394:PHE:CZ	2:N:626:VAL:HG21	2.51	0.46
2:N:831:SER:CB	2:N:994:TYR:OH	2.63	0.46
2:N:880:ALA:HB3	2:N:934:LYS:HD2	1.96	0.46
3:O:168:ALA:C	3:O:170:TRP:H	2.18	0.46
3:O:26:LEU:O	3:O:27:SER:C	2.54	0.46
1:M:1342:LEU:HD13	5:Q:146:HIS:CG	2.50	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:368:PRO:O	1:A:369:ILE:C	2.54	0.46
2:B:1169:MET:HE2	2:B:1204:PHE:CB	2.45	0.46
2:B:16:ASP:OD1	2:B:652:ILE:HD13	2.15	0.46
2:B:218:LYS:HB2	2:B:388:GLN:OE1	2.16	0.46
2:B:405:LEU:HB3	2:B:459:TRP:HZ2	1.78	0.46
2:B:810:GLU:CB	2:B:815:ARG:HH22	2.23	0.46
2:B:863:GLU:HG2	2:B:872:GLU:HB2	1.98	0.46
4:D:25:ALA:HB3	4:D:27:LEU:CG	2.45	0.46
5:E:154:ARG:O	5:E:155:LEU:HG	2.16	0.46
6:F:97:ARG:HA	6:F:100:GLN:HG3	1.97	0.46
1:M:549:ASN:ND2	11:W:47:ARG:HH21	2.13	0.46
1:M:762:MET:HA	1:M:805:TYR:HB2	1.96	0.46
2:N:830:TYR:CZ	2:N:1000:PRO:HB3	2.51	0.46
2:N:980:PHE:HA	2:N:1095:LEU:HD13	1.98	0.46
2:N:1162:VAL:CG1	2:N:1163:CYS:H	2.28	0.46
2:N:1181:GLU:HG2	2:N:1188:LYS:HG2	1.97	0.46
2:N:279:ARG:NH1	2:N:316:ILE:O	2.48	0.46
2:N:596:LEU:HD12	2:N:602:ILE:HG12	1.97	0.46
2:N:540:ILE:H	2:N:605:GLU:CD	2.19	0.46
2:N:16:ASP:OD1	2:N:652:ILE:HD13	2.15	0.46
2:N:866:PHE:C	2:N:868:ILE:N	2.66	0.46
2:N:969:ARG:HG2	2:N:970:THR:N	2.30	0.46
2:N:992:VAL:CG2	2:N:993:THR:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:182:GLU:O	4:P:183:ASP:C	2.53	0.46
6:R:111:ILE:C	6:R:113:GLY:H	2.18	0.46
1:M:601:PRO:HA	8:T:25:ARG:NH1	2.31	0.46
2:N:800:GLN:CG	10:V:51:THR:HG22	2.42	0.46
1:A:360:LEU:O	1:A:361:GLU:C	2.53	0.46
4:D:52:SER:HB2	4:D:147:SER:HB3	1.98	0.46
6:F:95:GLY:O	6:F:98:ALA:HB3	2.16	0.46
10:J:52:HIS:NE2	10:J:54:ASP:HA	2.30	0.46
10:J:6:ARG:HA	10:J:12:LYS:O	2.15	0.46
1:M:848:ASP:HA	1:M:1427:VAL:HG21	1.96	0.46
2:N:108:ASN:OD1	2:N:963:PHE:HZ	1.99	0.46
2:N:1012:ILE:HG21	2:N:1092:TYR:OH	2.16	0.46
2:N:1166:CYS:SG	2:N:1185:CYS:SG	3.09	0.46
2:N:280:ALA:O	2:N:323:LEU:HD11	2.16	0.46
2:N:53:GLU:O	2:N:53:GLU:CG	2.63	0.46
10:V:55:LEU:O	10:V:58:LYS:N	2.49	0.46
1:A:1004:GLY:CA	1:A:1009:ILE:HG21	2.45	0.46
1:A:402:GLY:O	1:A:436:HIS:CD2	2.68	0.46
1:A:42:ASP:OD1	1:A:45:ARG:O	2.34	0.46
1:A:434:GLU:OE1	2:B:1108:ARG:NH1	2.49	0.46
1:A:496:GLU:HB3	6:F:99:LEU:CB	2.45	0.46
1:A:568:LYS:HB3	8:H:94:TYR:C	2.35	0.46
1:A:624:GLY:C	1:A:626:GLY:H	2.18	0.46
1:A:669:ASP:CG	1:A:743:ASN:HD22	2.19	0.46
2:B:830:TYR:CZ	2:B:1000:PRO:HB3	2.51	0.46
2:B:1072:MET:CE	2:B:1087:PHE:HB2	2.46	0.46
2:B:1012:ILE:HG21	2:B:1092:TYR:OH	2.16	0.46
2:B:1116:ARG:CD	2:B:1198:TYR:CD1	2.98	0.46
2:B:305:MET:O	2:B:308:PRO:HD2	2.15	0.46
2:B:348:ILE:HG22	2:B:348:ILE:O	2.15	0.46
2:B:549:ASN:C	2:B:551:LEU:N	2.69	0.46
3:C:46:ASP:HA	3:C:169:LYS:NZ	2.31	0.46
3:C:186:LEU:N	3:C:186:LEU:HD12	2.31	0.46
5:E:123:ILE:C	5:E:125:THR:H	2.20	0.46
5:E:21:MET:HE3	5:E:25:ARG:NE	2.27	0.46
5:E:54:ARG:O	5:E:56:LEU:N	2.49	0.46
8:H:109:ASP:N	8:H:109:ASP:OD1	2.49	0.46
11:K:6:ARG:O	11:K:8:GLU:N	2.49	0.46
1:M:12:ARG:HB2	2:N:1218:THR:HG21	1.97	0.46
1:M:270:ILE:CD1	1:M:301:VAL:HG22	2.45	0.46
1:M:327:ARG:HH22	1:M:331:LYS:HE3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:575:GLY:O	1:M:576:LYS:C	2.54	0.46
1:M:757:ILE:O	1:M:760:ALA:HB3	2.16	0.46
1:M:854:ASP:C	1:M:854:ASP:OD1	2.53	0.46
2:N:1085:VAL:HG12	2:N:1086:PHE:N	2.31	0.46
2:N:1189:THR:CG2	2:N:1190:ASN:N	2.78	0.46
2:N:597:ARG:HH11	2:N:688:GLU:HG2	1.81	0.46
5:Q:119:ALA:O	5:Q:121:LYS:N	2.48	0.46
1:A:1030:THR:HG22	1:A:1034:LEU:HD12	1.98	0.46
1:A:1221:VAL:HG11	1:A:1274:ILE:CD1	2.39	0.46
1:A:351:ARG:HD2	2:B:1128:LEU:CD2	2.45	0.46
1:A:397:PRO:HB3	1:A:404:LYS:HB2	1.97	0.46
1:A:575:GLY:O	1:A:576:LYS:C	2.54	0.46
2:B:1177:LYS:O	2:B:1179:GLN:N	2.43	0.46
2:B:25:PHE:CD1	2:B:811:TYR:CD2	3.03	0.46
2:B:280:ALA:O	2:B:323:LEU:HD11	2.16	0.46
2:B:847:ASP:C	2:B:849:GLY:N	2.67	0.46
2:B:879:ARG:NE	2:B:879:ARG:HA	2.30	0.46
5:E:119:ALA:O	5:E:121:LYS:N	2.48	0.46
5:E:77:LEU:HD21	5:E:79:VAL:CG2	2.44	0.46
7:G:89:ALA:CB	7:G:103:VAL:HA	2.41	0.46
7:G:111:SER:C	7:G:113:ARG:N	2.68	0.46
1:M:80:HIS:O	1:M:244:PRO:HB3	2.16	0.46
1:M:261:ASP:OD1	1:M:262:ASP:N	2.49	0.46
1:M:64:ASN:O	1:M:66:LYS:N	2.49	0.46
1:M:68:GLN:C	1:M:70:CYS:H	2.19	0.46
2:N:839:MET:CE	2:N:1010:LEU:HD21	2.45	0.46
2:N:215:GLN:O	2:N:229:ALA:HA	2.15	0.46
2:N:416:LYS:HZ2	2:N:416:LYS:HB2	1.79	0.46
2:N:545:GLU:C	2:N:547:ILE:N	2.69	0.46
2:N:879:ARG:HA	2:N:879:ARG:NE	2.30	0.46
3:O:47:LEU:O	3:O:158:ILE:HG22	2.16	0.46
4:P:28:LEU:HD13	4:P:138:HIS:HD2	1.80	0.46
5:Q:181:ASP:HB3	5:Q:184:ALA:CB	2.45	0.46
3:O:141:GLY:HA2	10:V:16:ASP:HB3	1.97	0.46
11:W:6:ARG:O	11:W:8:GLU:N	2.49	0.46
1:A:1003:ARG:HH11	1:A:1003:ARG:HG2	1.81	0.46
1:A:1050:THR:O	1:A:1051:ILE:C	2.55	0.46
1:A:108:MET:C	1:A:110:CYS:N	2.69	0.46
1:A:314:GLN:O	1:A:315:ALA:HB3	2.16	0.46
1:A:453:LYS:HG2	2:B:1141:HIS:CE1	2.51	0.46
1:A:67:CYS:O	1:A:68:GLN:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:755:SER:O	1:A:756:PHE:C	2.55	0.46
1:A:769:GLN:OE1	1:A:817:HIS:CA	2.44	0.46
2:B:1031:LEU:HD11	2:B:1042:GLY:HA3	1.96	0.46
1:A:338:ARG:HD3	2:B:1132:GLU:OE1	2.16	0.46
2:B:105:ARG:NH2	2:B:185:GLU:HG2	2.32	0.46
2:B:20:VAL:HG21	2:B:631:PHE:HZ	1.81	0.46
2:B:509:ASN:O	2:B:511:HIS:N	2.49	0.46
3:C:16:GLU:O	3:C:17:VAL:HG23	2.15	0.46
4:D:94:SER:C	4:D:96:ALA:N	2.69	0.46
5:E:133:THR:C	5:E:134:PHE:HD1	2.20	0.46
5:E:177:ILE:HB	5:E:211:ARG:HD3	1.98	0.46
5:E:150:PRO:HB3	5:E:199:ARG:HB3	1.98	0.46
7:G:35:GLU:HG2	7:G:48:VAL:HG23	1.98	0.46
8:H:82:LYS:C	8:H:84:THR:H	2.20	0.46
10:J:55:LEU:O	10:J:58:LYS:N	2.49	0.46
1:M:314:GLN:O	1:M:315:ALA:HB3	2.16	0.46
1:M:524:ILE:HD12	1:M:623:VAL:HG21	1.97	0.46
1:M:984:THR:N	1:M:987:GLU:HB2	2.31	0.46
1:M:984:THR:HB	1:M:987:GLU:H	1.80	0.46
2:N:101:PRO:O	2:N:103:GLU:N	2.49	0.46
2:N:187:PRO:HG2	2:N:188:TYR:H	1.80	0.46
2:N:597:ARG:HA	2:N:602:ILE:HG13	1.98	0.46
2:N:542:SER:N	2:N:621:THR:HG23	2.31	0.46
3:O:251:LEU:HD12	3:O:251:LEU:C	2.36	0.46
4:P:41:HIS:ND1	4:P:41:HIS:C	2.68	0.46
5:Q:123:ILE:C	5:Q:125:THR:H	2.19	0.46
5:Q:150:PRO:HB3	5:Q:199:ARG:HB3	1.98	0.46
7:S:6:ASP:HB3	7:S:73:LYS:HZ1	1.81	0.46
10:V:47:ARG:HD2	10:V:47:ARG:C	2.36	0.46
1:A:112:LYS:HG2	1:A:113:LEU:N	2.31	0.45
1:A:1376:ASP:C	1:A:1379:THR:HG22	2.37	0.45
1:A:499:ARG:O	1:A:502:LEU:HB2	2.16	0.45
1:A:529:LEU:HD21	1:A:750:ALA:O	2.16	0.45
1:A:649:ASN:O	1:A:650:ILE:C	2.55	0.45
1:A:757:ILE:O	1:A:760:ALA:HB3	2.16	0.45
2:B:1189:THR:CG2	2:B:1190:ASN:N	2.78	0.45
2:B:225:ILE:CG2	2:B:228:VAL:HG23	2.46	0.45
2:B:393:HIS:ND1	2:B:510:THR:HG21	2.31	0.45
2:B:545:GLU:C	2:B:547:ILE:N	2.69	0.45
2:B:799:PRO:O	2:B:800:GLN:HG3	2.17	0.45
3:C:205:LYS:HG2	3:C:205:LYS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:134:PHE:CB	5:E:139:LEU:HD11	2.42	0.45
5:E:178:GLN:O	5:E:181:ASP:HB2	2.16	0.45
8:H:17:ASN:O	8:H:19:ARG:N	2.49	0.45
10:J:14:VAL:HG12	10:J:14:VAL:O	2.16	0.45
1:M:1003:ARG:HH11	1:M:1003:ARG:HG2	1.81	0.45
1:M:843:VAL:C	1:M:845:ALA:N	2.68	0.45
2:N:1132:GLU:O	2:N:1135:ARG:N	2.49	0.45
2:N:1159:ARG:CD	2:N:1193:GLN:NE2	2.78	0.45
2:N:549:ASN:C	2:N:551:LEU:N	2.69	0.45
1:M:786:PRO:CB	2:N:700:ILE:HD12	2.45	0.45
2:N:801:LYS:O	10:V:51:THR:CG2	2.56	0.45
2:N:863:GLU:HG2	2:N:872:GLU:HB2	1.98	0.45
2:N:898:LEU:HD13	2:N:952:VAL:HG11	1.98	0.45
2:N:995:ARG:NH1	2:N:997:GLU:OE1	2.49	0.45
3:O:186:LEU:N	3:O:186:LEU:HD12	2.31	0.45
4:P:109:LEU:O	4:P:113:ALA:HB2	2.16	0.45
5:Q:178:GLN:O	5:Q:181:ASP:HB2	2.16	0.45
7:S:7:LEU:HD11	7:S:45:ILE:HD11	1.98	0.45
8:T:17:ASN:O	8:T:19:ARG:N	2.49	0.45
8:T:42:ILE:HG23	8:T:94:TYR:CE1	2.52	0.45
10:V:6:ARG:HA	10:V:12:LYS:O	2.15	0.45
1:A:1197:LEU:HD11	1:A:1270:MET:HE3	1.98	0.45
1:A:570:LYS:HB3	1:A:572:LEU:HD11	1.98	0.45
1:A:68:GLN:C	1:A:70:CYS:H	2.19	0.45
2:B:1117:GLN:HG3	2:B:1156:ASP:CG	2.36	0.45
2:B:1161:HIS:CE1	2:B:1193:GLN:HB2	2.50	0.45
2:B:314:PHE:CD1	2:B:314:PHE:O	2.70	0.45
2:B:518:ALA:O	2:B:768:THR:HG23	2.17	0.45
3:C:47:LEU:O	3:C:158:ILE:HG22	2.16	0.45
4:D:41:HIS:ND1	4:D:42:ASP:N	2.64	0.45
1:A:699:GLN:NE2	9:I:99:LEU:HD21	2.29	0.45
1:M:1118:LEU:HD23	1:M:1311:THR:HG21	1.98	0.45
1:M:1393:ASN:HA	1:M:1402:ARG:HG2	1.97	0.45
1:M:246:GLN:O	2:N:1114:LEU:HD12	2.04	0.45
1:M:499:ARG:O	1:M:502:LEU:HB2	2.16	0.45
1:M:667:ILE:HD12	1:M:668:GLY:N	2.27	0.45
1:M:802:GLU:OE1	2:N:726:ILE:HD12	2.16	0.45
2:N:225:ILE:N	2:N:225:ILE:HD12	2.31	0.45
2:N:25:PHE:CD1	2:N:811:TYR:CD2	3.03	0.45
1:M:815:PHE:CE1	2:N:512:TRP:HE3	2.33	0.45
3:O:161:LYS:HB3	3:O:162:GLY:H	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:46:ASP:HA	3:O:169:LYS:NZ	2.31	0.45
4:P:94:SER:C	4:P:96:ALA:H	2.19	0.45
5:Q:154:ARG:O	5:Q:155:LEU:HG	2.16	0.45
5:Q:54:ARG:C	5:Q:56:LEU:N	2.69	0.45
7:S:89:ALA:CB	7:S:103:VAL:CA	2.91	0.45
8:T:109:ASP:N	8:T:109:ASP:OD1	2.49	0.45
2:N:286:ASP:HB2	9:U:12:ASN:HA	1.97	0.45
1:A:1423:ASP:O	1:A:1424:CYS:CB	2.61	0.45
1:A:261:ASP:OD1	1:A:262:ASP:N	2.49	0.45
1:A:327:ARG:HH22	1:A:331:LYS:HE3	1.81	0.45
1:A:382:THR:C	1:A:384:TYR:H	2.20	0.45
1:A:973:PHE:N	1:A:973:PHE:CD1	2.83	0.45
2:B:77:ILE:HA	2:B:120:GLU:O	2.17	0.45
2:B:280:ALA:N	2:B:322:ALA:HB1	2.30	0.45
2:B:316:ILE:HG23	2:B:321:VAL:HB	1.97	0.45
2:B:353:LEU:O	2:B:354:LEU:C	2.54	0.45
2:B:203:LEU:HD12	2:B:402:ALA:HB1	1.98	0.45
2:B:457:GLY:HA2	2:B:472:VAL:O	2.15	0.45
2:B:1001:PHE:CE2	3:C:33:ARG:NE	2.85	0.45
5:E:54:ARG:C	5:E:56:LEU:N	2.69	0.45
6:F:97:ARG:HA	6:F:97:ARG:HD2	1.71	0.45
1:M:1153:GLU:HA	9:U:44:TYR:O	2.16	0.45
1:M:1318:GLU:C	1:M:1320:MET:H	2.19	0.45
1:M:1376:ASP:C	1:M:1379:THR:HG22	2.37	0.45
1:M:860:SER:CB	1:M:1426:GLY:HA2	2.45	0.45
1:M:72:GLU:HB3	1:M:76:GLU:HB3	1.98	0.45
1:M:799:GLY:HA2	1:M:816:PHE:CG	2.46	0.45
2:N:1010:LEU:HD23	2:N:1092:TYR:CE1	2.52	0.45
2:N:1072:MET:CE	2:N:1087:PHE:HB2	2.46	0.45
2:N:218:LYS:HB2	2:N:388:GLN:OE1	2.15	0.45
2:N:203:LEU:HD12	2:N:402:ALA:HB1	1.98	0.45
2:N:457:GLY:HA2	2:N:472:VAL:O	2.15	0.45
2:N:509:ASN:O	2:N:511:HIS:N	2.49	0.45
2:N:559:LEU:O	2:N:560:GLU:C	2.55	0.45
2:N:628:ARG:NH1	2:N:742:GLU:OE2	2.45	0.45
8:T:90:ASP:O	8:T:92:TYR:N	2.41	0.45
1:A:1163:THR:CG2	1:A:1164:VAL:N	2.77	0.45
1:A:1343:GLY:O	1:A:1344:ILE:C	2.53	0.45
1:A:95:PHE:CD1	1:A:235:MET:HG2	2.52	0.45
1:A:24:PRO:HA	1:A:27:ILE:CG2	2.47	0.45
1:A:270:ILE:CD1	1:A:301:VAL:HG22	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:ASN:O	1:A:66:LYS:N	2.49	0.45
1:A:976:ASP:C	1:A:978:ALA:H	2.20	0.45
1:A:984:THR:HB	1:A:987:GLU:H	1.80	0.45
2:B:108:ASN:OD1	2:B:963:PHE:HZ	1.99	0.45
2:B:16:ASP:CG	2:B:652:ILE:HD13	2.37	0.45
2:B:381:CYS:C	2:B:383:LEU:N	2.70	0.45
1:A:787:HIS:HE1	2:B:512:TRP:CZ2	2.34	0.45
2:B:995:ARG:NH1	2:B:997:GLU:OE1	2.50	0.45
3:C:42:THR:CG2	3:C:43:LEU:N	2.61	0.45
12:L:49:ARG:HB3	12:L:50:CYS:H	1.70	0.45
1:M:1221:VAL:HG11	1:M:1274:ILE:CD1	2.39	0.45
1:M:342:MET:O	2:N:1132:GLU:HA	2.17	0.45
1:M:368:PRO:O	1:M:369:ILE:C	2.54	0.45
1:M:42:ASP:OD1	1:M:45:ARG:O	2.34	0.45
1:M:689:GLU:C	1:M:691:VAL:H	2.18	0.45
1:M:852:HIS:HB2	1:M:856:THR:CG2	2.47	0.45
2:N:1152:MET:HE3	2:N:1157:ALA:HA	1.98	0.45
2:N:1169:MET:HE1	2:N:1204:PHE:HB2	1.97	0.45
2:N:239:SER:O	2:N:240:ARG:HB2	2.15	0.45
2:N:538:ILE:HG22	2:N:539:SER:O	2.16	0.45
2:N:57:ILE:O	2:N:57:ILE:HG22	2.17	0.45
2:N:799:PRO:O	2:N:800:GLN:HG3	2.17	0.45
2:N:873:GLU:HB2	2:N:915:THR:OG1	2.15	0.45
2:N:1003:ALA:O	3:O:177:ALA:HA	2.17	0.45
4:P:41:HIS:ND1	4:P:42:ASP:N	2.64	0.45
5:Q:54:ARG:O	5:Q:56:LEU:N	2.49	0.45
6:R:97:ARG:HA	6:R:100:GLN:HG3	1.98	0.45
1:A:208:ILE:HG23	1:A:212:PHE:CE1	2.52	0.45
1:A:20:GLY:C	1:A:21:LEU:HD23	2.36	0.45
1:A:53:LEU:O	1:A:54:ASN:C	2.55	0.45
1:A:520:PRO:HD3	1:A:632:HIS:CG	2.51	0.45
2:B:1010:LEU:HD23	2:B:1092:TYR:CE1	2.52	0.45
2:B:1200:ALA:O	2:B:1201:LYS:C	2.54	0.45
2:B:457:GLY:C	2:B:458:ASN:HD22	2.20	0.45
2:B:542:SER:N	2:B:621:THR:HG23	2.31	0.45
2:B:575:VAL:HG23	2:B:619:ILE:CD1	2.45	0.45
3:C:251:LEU:C	3:C:251:LEU:HD12	2.36	0.45
3:C:9:ILE:HG13	3:C:9:ILE:H	1.44	0.45
4:D:109:LEU:O	4:D:113:ALA:HB2	2.17	0.45
4:D:122:THR:O	4:D:126:GLN:HG3	2.16	0.45
4:D:94:SER:C	4:D:96:ALA:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:109:THR:HG22	9:I:109:THR:O	2.17	0.45
9:I:68:LEU:HB3	9:I:84:VAL:CG2	2.47	0.45
1:M:112:LYS:HG2	1:M:113:LEU:N	2.31	0.45
1:M:1316:LEU:C	1:M:1318:GLU:N	2.70	0.45
1:M:183:TRP:CG	1:M:184:GLY:N	2.84	0.45
1:M:24:PRO:HA	1:M:27:ILE:CG2	2.47	0.45
1:M:263:LEU:O	1:M:265:HIS:N	2.50	0.45
2:N:1201:LYS:HG2	2:N:1202:LEU:N	2.28	0.45
2:N:217:PHE:HA	2:N:388:GLN:HG3	1.99	0.45
5:Q:177:ILE:HB	5:Q:211:ARG:HD3	1.98	0.45
3:O:9:ILE:CD1	11:W:108:GLU:HB3	2.36	0.45
1:A:263:LEU:O	1:A:265:HIS:N	2.50	0.45
1:A:822:ARG:HH11	1:A:822:ARG:CB	2.22	0.45
1:A:963:ARG:HH11	1:A:963:ARG:HG3	1.80	0.45
1:A:999:LEU:HD13	1:A:1020:PHE:HE2	1.82	0.45
2:B:39:ASP:O	2:B:43:GLU:HB2	2.17	0.45
2:B:479:TYR:CD2	2:B:479:TYR:N	2.83	0.45
2:B:999:MET:HG3	2:B:1000:PRO:CD	2.30	0.45
5:E:201:SER:C	5:E:203:THR:H	2.19	0.45
10:J:7:CYS:SG	10:J:48:MET:CE	3.04	0.45
11:K:79:GLU:O	11:K:81:THR:N	2.50	0.45
1:M:1007:GLU:O	1:M:1008:LEU:C	2.54	0.45
1:M:1072:GLN:O	1:M:1074:ILE:N	2.50	0.45
2:N:778:MET:HE2	2:N:1094:ARG:HD3	1.95	0.45
2:N:1168:LEU:HD13	2:N:1208:MET:HE1	1.98	0.45
2:N:1169:MET:HE2	2:N:1204:PHE:CB	2.47	0.45
2:N:108:ASN:HA	2:N:198:GLY:CA	2.47	0.45
2:N:200:GLU:OE1	2:N:788:ARG:NH2	2.50	0.45
2:N:294:CYS:SG	2:N:303:LEU:HD21	2.57	0.45
2:N:797:TYR:HB3	2:N:798:TYR:HD2	1.78	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
6:R:74:ILE:HG22	6:R:74:ILE:O	2.15	0.45
9:U:58:ILE:CG1	9:U:62:ILE:HG21	2.47	0.45
1:A:1072:GLN:O	1:A:1074:ILE:N	2.50	0.45
1:A:87:ALA:O	1:A:88:LYS:HG2	2.17	0.45
2:B:101:PRO:O	2:B:103:GLU:N	2.49	0.45
2:B:1114:LEU:O	2:B:1198:TYR:HE2	1.94	0.45
2:B:217:PHE:HA	2:B:388:GLN:HG3	1.99	0.45
2:B:302:MET:HE2	2:B:379:LEU:HB2	1.99	0.45
2:B:56:LEU:HB3	2:B:425:MET:HE1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:168:ALA:O	3:C:170:TRP:N	2.50	0.45
2:B:1003:ALA:O	3:C:177:ALA:HA	2.17	0.45
4:D:54:SER:HB3	4:D:113:ALA:CA	2.47	0.45
4:D:28:LEU:HD13	4:D:138:HIS:HD2	1.81	0.45
7:G:166:ASP:O	7:G:168:LEU:HG	2.17	0.45
1:M:1257:ALA:O	1:M:1258:GLU:CB	2.65	0.45
1:M:373:LYS:HA	1:M:436:HIS:HD1	1.79	0.45
1:M:444:LEU:O	1:M:490:LEU:HD12	2.16	0.45
1:M:520:PRO:HD3	1:M:632:HIS:CG	2.51	0.45
1:M:553:TRP:HE1	11:W:62:LYS:CB	2.13	0.45
1:M:960:VAL:HG11	1:M:1051:ILE:HG23	1.97	0.45
1:M:1431:VAL:HG11	2:N:1135:ARG:CD	2.46	0.45
1:M:453:LYS:HG2	2:N:1141:HIS:CE1	2.51	0.45
2:N:1223:VAL:O	2:N:1224:SER:CB	2.59	0.45
2:N:176:ASP:O	2:N:177:GLU:C	2.55	0.45
2:N:16:ASP:HB3	2:N:652:ILE:HD13	1.99	0.45
3:O:205:LYS:HG2	3:O:205:LYS:O	2.16	0.45
3:O:233:GLU:OE1	10:V:12:LYS:HE2	2.17	0.45
5:Q:179:ARG:HH21	5:Q:191:ARG:HB2	1.82	0.45
5:Q:201:SER:C	5:Q:203:THR:H	2.20	0.45
1:A:1257:ALA:O	1:A:1258:GLU:CB	2.65	0.45
1:A:1392:ILE:C	1:A:1394:ARG:H	2.20	0.45
1:A:183:TRP:CG	1:A:184:GLY:N	2.84	0.45
1:A:547:VAL:O	1:A:551:LEU:HG	2.17	0.45
1:A:852:HIS:HB2	1:A:856:THR:CG2	2.47	0.45
2:B:495:ILE:HG12	2:B:528:LEU:HD13	1.99	0.45
2:B:54:PRO:O	2:B:55:ARG:C	2.55	0.45
2:B:597:ARG:HA	2:B:602:ILE:HG13	1.98	0.45
2:B:597:ARG:HH11	2:B:688:GLU:HG2	1.81	0.45
3:C:141:GLY:HA2	10:J:16:ASP:HB3	1.97	0.45
4:D:56:SER:O	4:D:60:ILE:HG13	2.16	0.45
5:E:115:ILE:HG22	5:E:116:THR:N	2.32	0.45
1:M:106:ILE:CG1	1:M:107:CYS:N	2.80	0.45
1:M:1163:THR:CG2	1:M:1164:VAL:N	2.77	0.45
1:M:208:ILE:HG23	1:M:212:PHE:CE1	2.52	0.45
1:M:95:PHE:CD1	1:M:235:MET:HG2	2.52	0.45
1:M:755:SER:O	1:M:756:PHE:C	2.55	0.45
1:M:87:ALA:O	1:M:88:LYS:HG2	2.17	0.45
2:N:999:MET:HG2	2:N:1007:VAL:HG22	1.99	0.45
2:N:1039:GLY:HA2	10:V:50:LEU:HD21	1.96	0.45
2:N:1200:ALA:O	2:N:1201:LYS:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:39:ASP:O	2:N:43:GLU:HB2	2.16	0.45
2:N:725:ARG:HH12	2:N:1047:PHE:HA	1.81	0.45
2:N:821:GLN:NE2	2:N:850:LEU:HD12	2.32	0.45
2:N:977:GLY:HA3	2:N:1099:VAL:HG21	1.99	0.45
1:M:561:VAL:HG23	8:T:77:SER:HB2	1.98	0.45
9:U:68:LEU:HB3	9:U:84:VAL:CG2	2.46	0.45
11:W:85:GLN:O	11:W:88:GLU:N	2.50	0.45
1:A:853:TYR:CE2	1:A:1062:PRO:HB2	2.50	0.45
1:A:1103:LEU:HD12	1:A:1103:LEU:O	2.17	0.45
1:A:1153:GLU:HA	9:I:44:TYR:O	2.16	0.45
1:A:93:ILE:HG22	1:A:305:MET:CE	2.47	0.45
1:A:591:ARG:HH21	1:A:621:LYS:HB3	1.73	0.45
2:B:225:ILE:HD12	2:B:225:ILE:N	2.31	0.45
2:B:294:CYS:SG	2:B:303:LEU:HD21	2.57	0.45
3:C:10:ILE:O	3:C:11:ASN:C	2.55	0.45
3:C:45:ILE:HG13	3:C:71:LEU:HD11	1.99	0.45
5:E:39:GLU:C	5:E:41:PHE:H	2.20	0.45
5:E:89:ILE:CG1	5:E:118:SER:HB2	2.47	0.45
11:K:85:GLN:O	11:K:88:GLU:N	2.50	0.45
1:M:1107:LEU:HB3	1:M:1387:ILE:HG21	1.99	0.45
1:M:173:PRO:HB3	1:M:186:TRP:CD2	2.52	0.45
1:M:100:LYS:HG3	1:M:182:LEU:CD2	2.47	0.45
2:N:314:PHE:O	2:N:314:PHE:CD1	2.70	0.45
2:N:16:ASP:CG	2:N:652:ILE:HD13	2.37	0.45
2:N:77:ILE:HA	2:N:120:GLU:O	2.17	0.45
2:N:956:THR:HG22	2:N:957:ASN:O	2.17	0.45
3:O:168:ALA:O	3:O:170:TRP:N	2.50	0.45
4:P:122:THR:O	4:P:126:GLN:HG3	2.16	0.45
11:W:76:GLN:HB3	11:W:76:GLN:HE21	1.53	0.45
1:A:444:LEU:O	1:A:490:LEU:HD12	2.16	0.45
1:A:568:LYS:HB2	1:A:569:PRO:HD3	1.96	0.45
1:A:567:LEU:O	1:A:568:LYS:O	2.34	0.45
1:A:780:PHE:O	1:A:781:ALA:C	2.55	0.45
1:A:984:THR:N	1:A:987:GLU:HB2	2.31	0.45
2:B:1085:VAL:HG12	2:B:1086:PHE:N	2.30	0.45
2:B:1168:LEU:HD13	2:B:1208:MET:HE3	1.98	0.45
2:B:555:GLY:O	2:B:583:HIS:ND1	2.50	0.45
2:B:752:ALA:O	2:B:755:ILE:CG1	2.65	0.45
2:B:796:LEU:O	2:B:797:TYR:C	2.55	0.45
3:C:115:SER:HG	3:C:142:ILE:CG1	2.30	0.45
8:H:42:ILE:HG23	8:H:94:TYR:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:10:CYS:O	9:I:11:ASN:C	2.55	0.45
1:M:1050:THR:O	1:M:1051:ILE:C	2.55	0.45
1:M:116:ASP:C	1:M:118:THR:N	2.71	0.45
1:M:549:ASN:ND2	11:W:47:ARG:NH2	2.65	0.45
1:M:570:LYS:HB3	1:M:572:LEU:HD11	1.98	0.45
1:M:669:ASP:CG	1:M:743:ASN:HD22	2.19	0.45
1:M:869:TYR:CE1	1:M:1066:VAL:CG1	3.00	0.45
1:M:434:GLU:OE1	2:N:1108:ARG:NH1	2.50	0.45
2:N:489:ARG:HB3	2:N:489:ARG:HH11	1.82	0.45
2:N:758:PHE:C	2:N:760:ASP:H	2.20	0.45
2:N:518:ALA:O	2:N:768:THR:HG23	2.17	0.45
2:N:796:LEU:O	2:N:797:TYR:C	2.55	0.45
2:N:908:ASP:O	2:N:909:ASP:C	2.55	0.45
4:P:52:SER:HB2	4:P:147:SER:HB3	1.98	0.45
5:Q:39:GLU:C	5:Q:41:PHE:H	2.20	0.45
8:T:107:ASP:O	8:T:108:GLU:C	2.55	0.45
11:W:13:PRO:O	11:W:14:ASP:C	2.56	0.45
11:W:79:GLU:O	11:W:81:THR:N	2.50	0.45
12:X:63:THR:HG22	12:X:65:ARG:HG3	1.98	0.45
1:A:1448:ILE:HD12	1:A:1448:ILE:N	2.32	0.44
1:A:261:ASP:CG	1:A:262:ASP:N	2.71	0.44
1:A:669:ASP:HB3	1:A:744:VAL:HG23	1.98	0.44
1:A:869:TYR:CE1	1:A:1066:VAL:CG1	3.00	0.44
2:B:999:MET:HG2	2:B:1007:VAL:HG22	1.99	0.44
2:B:200:GLU:OE1	2:B:788:ARG:NH2	2.50	0.44
2:B:235:LEU:O	2:B:240:ARG:HG2	2.17	0.44
2:B:51:TRP:CG	2:B:51:TRP:CA	2.84	0.44
2:B:758:PHE:C	2:B:760:ASP:H	2.20	0.44
2:B:857:ARG:O	2:B:967:ARG:HA	2.17	0.44
2:B:977:GLY:HA3	2:B:1099:VAL:HG21	1.99	0.44
3:C:9:ILE:HG22	3:C:10:ILE:O	2.16	0.44
4:D:67:ARG:C	4:D:69:ARG:N	2.71	0.44
9:I:58:ILE:CG1	9:I:62:ILE:HG21	2.47	0.44
1:A:549:ASN:ND2	11:K:47:ARG:NH2	2.66	0.44
1:M:1103:LEU:HD12	1:M:1103:LEU:O	2.17	0.44
1:M:1144:THR:HA	1:M:1276:LEU:HD13	1.98	0.44
1:M:1335:PHE:O	1:M:1336:VAL:C	2.56	0.44
1:M:1448:ILE:N	1:M:1448:ILE:HD12	2.32	0.44
1:M:377:TYR:HA	1:M:378:PRO:HD2	1.87	0.44
1:M:444:LEU:HD22	1:M:444:LEU:HA	1.79	0.44
1:M:547:VAL:O	1:M:551:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:787:HIS:HE1	2:N:512:TRP:CZ2	2.34	0.44
2:N:353:LEU:O	2:N:354:LEU:C	2.54	0.44
3:O:113:VAL:HG23	3:O:145:CYS:O	2.17	0.44
3:O:164:ALA:CB	3:O:171:SER:CB	2.84	0.44
6:R:95:GLY:O	6:R:98:ALA:HB3	2.16	0.44
9:U:106:CYS:O	9:U:107:LYS:CG	2.65	0.44
10:V:14:VAL:HG12	10:V:14:VAL:O	2.16	0.44
1:A:936:GLN:NE2	1:A:1025:ARG:NH1	2.66	0.44
1:A:410:ASN:O	1:A:411:GLY:C	2.56	0.44
1:A:561:VAL:HG23	8:H:77:SER:HB2	1.98	0.44
2:B:167:SER:O	2:B:173:ARG:HB3	2.18	0.44
2:B:559:LEU:O	2:B:560:GLU:C	2.55	0.44
2:B:57:ILE:HG22	2:B:57:ILE:O	2.17	0.44
2:B:980:PHE:HA	2:B:1095:LEU:HD13	1.98	0.44
5:E:179:ARG:HH21	5:E:191:ARG:HB2	1.82	0.44
5:E:58:SER:OG	5:E:80:GLU:HG3	2.17	0.44
11:K:13:PRO:O	11:K:14:ASP:C	2.56	0.44
1:M:1195:LEU:HD12	1:M:1196:ARG:N	2.33	0.44
1:M:261:ASP:CG	1:M:262:ASP:N	2.71	0.44
1:M:498:THR:HG21	2:N:1149:GLU:OE1	2.18	0.44
1:M:649:ASN:O	1:M:650:ILE:C	2.55	0.44
1:M:710:THR:HG22	1:M:712:ARG:N	2.25	0.44
1:M:344:LYS:O	2:N:1129:ARG:HG2	2.17	0.44
1:M:456:MET:HE3	2:N:1134:GLU:HG3	1.99	0.44
2:N:1197:PRO:O	2:N:1200:ALA:N	2.50	0.44
2:N:235:LEU:O	2:N:240:ARG:HG2	2.17	0.44
2:N:782:LEU:CD1	2:N:788:ARG:NH1	2.75	0.44
3:O:9:ILE:HG22	3:O:10:ILE:O	2.16	0.44
4:P:105:THR:O	4:P:105:THR:HG22	2.17	0.44
5:Q:12:TRP:O	5:Q:15:PHE:HB3	2.18	0.44
5:Q:54:ARG:C	5:Q:56:LEU:H	2.21	0.44
6:R:79:ARG:HG2	6:R:144:GLU:OE1	2.17	0.44
7:S:117:ASP:O	7:S:119:LEU:N	2.51	0.44
7:S:166:ASP:O	7:S:168:LEU:HG	2.17	0.44
9:U:10:CYS:O	9:U:11:ASN:C	2.55	0.44
1:A:1318:GLU:C	1:A:1320:MET:H	2.20	0.44
1:A:1346:ALA:HB1	5:E:148:LEU:HB2	1.99	0.44
1:A:80:HIS:O	1:A:244:PRO:HB3	2.16	0.44
1:A:826:ILE:O	1:A:830:VAL:HG23	2.18	0.44
2:B:1110:PRO:HG2	2:B:1119:VAL:CG2	2.47	0.44
2:B:176:ASP:O	2:B:177:GLU:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:442:LYS:O	2:B:444:THR:N	2.44	0.44
2:B:466:MET:C	2:B:468:SER:H	2.18	0.44
2:B:630:LEU:HA	2:B:743:ILE:HD11	2.00	0.44
3:C:233:GLU:OE1	10:J:12:LYS:HE2	2.17	0.44
1:M:1208:GLN:O	1:M:1209:LEU:HD23	2.17	0.44
1:M:1228:VAL:HG22	1:M:1242:CYS:HB3	1.99	0.44
1:M:342:MET:HE2	1:M:844:LYS:HZ1	0.65	0.44
1:M:397:PRO:HB3	1:M:404:LYS:HB2	1.97	0.44
1:M:53:LEU:O	1:M:54:ASN:C	2.55	0.44
1:M:769:GLN:OE1	1:M:820:ALA:HB3	2.18	0.44
1:M:91:PHE:H	1:M:298:GLN:NE2	2.10	0.44
1:M:936:GLN:NE2	1:M:1025:ARG:NH1	2.66	0.44
2:N:1030:LEU:HD12	2:N:1030:LEU:HA	1.88	0.44
2:N:1110:PRO:HG2	2:N:1119:VAL:CG2	2.47	0.44
2:N:105:ARG:NH2	2:N:185:GLU:HG2	2.31	0.44
2:N:31:VAL:O	2:N:32:SER:C	2.54	0.44
2:N:555:GLY:O	2:N:583:HIS:ND1	2.50	0.44
2:N:630:LEU:HA	2:N:743:ILE:HD11	2.00	0.44
2:N:890:TYR:CD2	2:N:910:ILE:HG21	2.51	0.44
4:P:50:ALA:CB	4:P:139:PRO:O	2.65	0.44
8:T:42:ILE:CG2	8:T:43:ASN:N	2.81	0.44
1:A:1118:LEU:HD23	1:A:1311:THR:HG21	1.98	0.44
1:A:716:GLU:O	1:A:718:GLU:N	2.50	0.44
2:B:1072:MET:HE1	2:B:1087:PHE:HB2	2.00	0.44
1:A:1441:THR:HB	2:B:1144:ALA:CB	2.47	0.44
2:B:489:ARG:HH11	2:B:489:ARG:HB3	1.82	0.44
2:B:758:PHE:N	2:B:759:PRO:CD	2.81	0.44
2:B:868:ILE:O	2:B:870:ILE:HG13	2.17	0.44
3:C:113:VAL:HG23	3:C:145:CYS:O	2.17	0.44
3:C:175:ALA:CB	10:J:42:ARG:NH2	2.72	0.44
3:C:87:CYS:SG	3:C:87:CYS:O	2.75	0.44
4:D:50:ALA:CB	4:D:139:PRO:O	2.66	0.44
7:G:13:LEU:CD2	7:G:17:TYR:HB2	2.45	0.44
4:D:49:ILE:CG2	7:G:4:LEU:HB2	2.42	0.44
1:M:318:LYS:HA	2:N:464:LYS:HE3	1.85	0.44
1:M:465:PRO:O	1:M:466:TYR:O	2.36	0.44
1:M:483:PHE:O	2:N:989:THR:CG2	2.62	0.44
1:M:669:ASP:HB3	1:M:744:VAL:HG23	1.98	0.44
1:M:716:GLU:O	1:M:718:GLU:N	2.51	0.44
2:N:495:ILE:HG12	2:N:528:LEU:HD13	1.99	0.44
2:N:634:GLU:C	2:N:636:ASP:N	2.71	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
3:O:59:ASP:HB3	12:X:69:PHE:CZ	2.52	0.44
4:P:176:ASP:O	4:P:178:LEU:N	2.51	0.44
5:Q:115:ILE:HG22	5:Q:116:THR:N	2.32	0.44
5:Q:133:THR:C	5:Q:134:PHE:HD1	2.20	0.44
8:T:111:ILE:HG22	8:T:112:LYS:H	1.81	0.44
1:A:1122:LEU:HD23	1:A:1126:ILE:O	2.18	0.44
1:A:1195:LEU:HD12	1:A:1196:ARG:N	2.33	0.44
1:A:200:ARG:HB3	1:A:200:ARG:HH11	1.82	0.44
1:A:417:ARG:C	1:A:418:TYR:CD2	2.91	0.44
1:A:869:TYR:CD2	1:A:1060:VAL:HG21	2.52	0.44
2:B:1074:ASN:HB2	2:B:1081:LEU:HD21	2.00	0.44
2:B:1012:ILE:HD13	2:B:1092:TYR:OH	2.18	0.44
2:B:725:ARG:HH12	2:B:1047:PHE:HA	1.81	0.44
3:C:128:ASN:O	3:C:129:VAL:HB	2.17	0.44
3:C:218:VAL:HG23	3:C:218:VAL:H	1.22	0.44
4:D:105:THR:HG22	4:D:105:THR:O	2.17	0.44
5:E:102:LYS:HB3	5:E:104:PHE:CE2	2.53	0.44
7:G:153:ASP:CG	7:G:154:VAL:HG23	2.38	0.44
9:I:106:CYS:O	9:I:107:LYS:CG	2.65	0.44
9:I:61:ASP:C	9:I:63:GLY:H	2.21	0.44
11:K:24:ASP:OD1	11:K:26:ARG:HB2	2.18	0.44
1:M:1122:LEU:HD23	1:M:1126:ILE:O	2.18	0.44
1:M:1389:ARG:NE	1:M:1406:GLU:OE1	2.40	0.44
1:M:962:LEU:CA	1:M:965:ILE:HG22	2.45	0.44
2:N:1165:ILE:O	4:P:15:ALA:HA	2.18	0.44
2:N:1192:TYR:N	2:N:1192:TYR:CD1	2.86	0.44
2:N:167:SER:O	2:N:173:ARG:HB3	2.18	0.44
2:N:54:PRO:O	2:N:55:ARG:C	2.55	0.44
2:N:752:ALA:O	2:N:755:ILE:CG1	2.65	0.44
2:N:845:SER:O	2:N:850:LEU:HB3	2.18	0.44
3:O:10:ILE:O	3:O:11:ASN:C	2.55	0.44
5:Q:58:SER:OG	5:Q:80:GLU:HG3	2.17	0.44
1:M:1445:ASP:CB	6:R:137:TYR:HE1	2.29	0.44
8:T:12:VAL:HB	8:T:52:ASP:H	1.83	0.44
10:V:1:MET:N	10:V:55:LEU:HB2	2.33	0.44
1:A:1294:VAL:HA	1:A:1295:PRO:HD3	1.75	0.44
1:A:351:ARG:HD2	2:B:1128:LEU:HD21	2.00	0.44
1:A:649:ASN:C	1:A:651:GLN:N	2.69	0.44
1:A:530:CYS:HA	1:A:750:ALA:HB1	1.98	0.44
1:A:964:ARG:O	1:A:967:GLN:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:108:ASN:HA	2:B:198:GLY:CA	2.47	0.44
2:B:363:PHE:O	2:B:364:GLU:C	2.54	0.44
2:B:376:ASN:C	2:B:380:LEU:HD13	2.38	0.44
2:B:845:SER:O	2:B:850:LEU:HB3	2.18	0.44
2:B:908:ASP:O	2:B:909:ASP:C	2.55	0.44
2:B:890:TYR:CD2	2:B:910:ILE:HG21	2.51	0.44
2:B:969:ARG:NH1	3:C:60:GLU:OE1	2.51	0.44
2:B:992:VAL:CG2	2:B:993:THR:H	2.27	0.44
5:E:160:LYS:HG3	5:E:194:VAL:HG21	2.00	0.44
6:F:124:GLU:O	6:F:130:ILE:HG13	2.18	0.44
8:H:27:ILE:HA	8:H:38:LEU:O	2.18	0.44
9:I:32:CYS:O	9:I:33:ASP:CG	2.56	0.44
10:J:6:ARG:HG2	10:J:13:VAL:HA	1.98	0.44
3:C:241:ASN:HB3	11:K:109:TRP:CZ2	2.52	0.44
1:A:549:ASN:HD21	11:K:47:ARG:CZ	2.31	0.44
1:M:1163:THR:CG2	1:M:1165:ILE:H	2.25	0.44
1:M:1294:VAL:HA	1:M:1295:PRO:HD3	1.75	0.44
1:M:1346:ALA:HB1	5:Q:148:LEU:HB2	1.99	0.44
1:M:17:VAL:HG23	1:M:1424:CYS:SG	2.58	0.44
1:M:200:ARG:HB3	1:M:200:ARG:HH11	1.82	0.44
1:M:382:THR:C	1:M:384:TYR:H	2.20	0.44
1:M:529:LEU:HD21	1:M:750:ALA:O	2.16	0.44
1:M:591:ARG:HH21	1:M:621:LYS:HB3	1.73	0.44
1:M:895:HIS:O	1:M:899:TYR:HB3	2.18	0.44
1:M:902:LEU:N	1:M:927:GLN:NE2	2.62	0.44
1:M:976:ASP:C	1:M:978:ALA:H	2.20	0.44
1:M:999:LEU:HD13	1:M:1020:PHE:HE2	1.82	0.44
2:N:984:HIS:HB3	2:N:1022:THR:OG1	2.18	0.44
1:M:319:SER:N	2:N:464:LYS:HG2	2.31	0.44
2:N:479:TYR:CD2	2:N:479:TYR:N	2.83	0.44
2:N:758:PHE:N	2:N:759:PRO:CD	2.81	0.44
3:O:87:CYS:SG	3:O:87:CYS:O	2.75	0.44
7:S:132:SER:HB3	7:S:135:GLU:N	2.32	0.44
8:T:27:ILE:HA	8:T:38:LEU:O	2.18	0.44
1:A:106:ILE:CG1	1:A:107:CYS:N	2.80	0.44
1:A:1144:THR:HA	1:A:1276:LEU:HD13	1.98	0.44
1:A:1208:GLN:O	1:A:1277:ARG:NH1	2.50	0.44
1:A:801:VAL:HG22	1:A:813:GLU:CA	2.48	0.44
1:A:895:HIS:O	1:A:899:TYR:HB3	2.18	0.44
1:A:916:TYR:CG	1:A:920:ILE:CD1	3.00	0.44
2:B:111:TYR:CE2	2:B:170:CYS:SG	3.09	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1116:ARG:HD2	2:B:1198:TYR:CD1	2.53	0.44
2:B:401:LEU:O	2:B:404:PRO:HD2	2.18	0.44
3:C:59:ASP:HB3	12:L:69:PHE:CZ	2.52	0.44
4:D:25:ALA:C	4:D:27:LEU:N	2.70	0.44
12:L:57:VAL:O	12:L:58:ILE:CB	2.66	0.44
1:M:417:ARG:C	1:M:418:TYR:CD2	2.91	0.44
1:M:530:CYS:HA	1:M:750:ALA:HB1	1.99	0.44
1:M:916:TYR:CG	1:M:920:ILE:CD1	3.00	0.44
1:M:93:ILE:HG22	1:M:305:MET:CE	2.47	0.44
2:N:1106:ARG:HG3	2:N:1107:ALA:N	2.33	0.44
2:N:1177:LYS:C	2:N:1179:GLN:H	2.21	0.44
2:N:281:LEU:HD13	2:N:368:THR:CB	2.48	0.44
2:N:758:PHE:C	2:N:760:ASP:N	2.70	0.44
2:N:847:ASP:C	2:N:849:GLY:N	2.67	0.44
2:N:882:THR:HG21	2:N:884:ARG:HB2	1.99	0.44
4:P:35:ALA:C	4:P:37:LYS:N	2.70	0.44
6:R:83:PRO:HA	6:R:146:TRP:CZ3	2.53	0.44
7:S:153:ASP:CG	7:S:154:VAL:HG23	2.38	0.44
8:T:19:ARG:C	8:T:20:TYR:HD2	2.21	0.44
1:A:1195:LEU:HD22	1:A:1263:LEU:HD11	2.00	0.44
1:A:1081:MET:HG2	1:A:1362:ASP:OD2	2.18	0.44
1:A:606:MET:HG2	1:A:622:THR:HG23	2.00	0.44
1:A:72:GLU:HB3	1:A:76:GLU:HB3	1.98	0.44
2:B:609:ILE:HG13	2:B:694:GLU:HA	2.00	0.44
2:B:16:ASP:HB3	2:B:652:ILE:HD13	1.99	0.44
2:B:821:GLN:NE2	2:B:850:LEU:HD12	2.32	0.44
3:C:248:ILE:HG23	11:K:98:LEU:HD22	2.00	0.44
5:E:81:PHE:CA	5:E:110:ILE:CG2	2.88	0.44
1:A:1345:GLU:OE2	5:E:211:ARG:NH1	2.51	0.44
6:F:79:ARG:HG2	6:F:144:GLU:OE1	2.17	0.44
6:F:83:PRO:HA	6:F:146:TRP:CZ3	2.53	0.44
7:G:22:MET:O	7:G:23:ASN:C	2.56	0.44
8:H:3:SER:O	8:H:60:ALA:HB1	2.18	0.44
10:J:1:MET:N	10:J:55:LEU:HB2	2.33	0.44
1:M:1294:VAL:HG13	1:M:1295:PRO:CD	2.48	0.44
1:M:44:SER:O	1:M:45:ARG:CB	2.65	0.44
1:M:869:TYR:CD2	1:M:1060:VAL:HG21	2.52	0.44
2:N:1074:ASN:HB2	2:N:1081:LEU:HD21	2.00	0.44
2:N:1012:ILE:HD13	2:N:1092:TYR:OH	2.18	0.44
2:N:457:GLY:C	2:N:458:ASN:HD22	2.20	0.44
2:N:609:ILE:CD1	2:N:609:ILE:N	2.77	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:128:ASN:O	3:O:129:VAL:HB	2.17	0.44
4:P:67:ARG:C	4:P:69:ARG:N	2.71	0.44
1:A:17:VAL:HG23	1:A:1424:CYS:SG	2.58	0.44
1:A:478:PRO:CG	1:A:522:MET:HG2	2.48	0.44
1:A:62:ASP:O	1:A:63:ARG:HB2	2.18	0.44
1:A:769:GLN:OE1	1:A:820:ALA:HB3	2.18	0.44
1:A:941:ARG:NH1	1:A:941:ARG:HG2	2.32	0.44
2:B:103:GLU:O	2:B:104:ALA:C	2.56	0.44
2:B:702:MET:H	2:B:707:LEU:HD12	1.83	0.44
4:D:84:ILE:C	4:D:86:ASP:H	2.22	0.44
7:G:129:ALA:HB1	7:G:137:ILE:O	2.18	0.44
10:J:46:ARG:HH11	10:J:46:ARG:CG	2.30	0.44
1:M:1283:SER:O	1:M:1285:VAL:HG23	2.18	0.44
1:M:1387:ILE:HG23	1:M:1387:ILE:O	2.18	0.44
1:M:887:ILE:HG22	1:M:888:PRO:N	2.33	0.44
2:N:1197:PRO:HG2	2:N:1200:ALA:HB2	2.00	0.44
2:N:381:CYS:C	2:N:383:LEU:N	2.70	0.44
2:N:955:THR:N	2:N:963:PHE:O	2.51	0.44
7:S:154:VAL:HB	7:S:155:ASN:H	1.56	0.44
7:S:22:MET:O	7:S:25:TYR:N	2.51	0.44
7:S:22:MET:O	7:S:23:ASN:C	2.56	0.44
8:T:19:ARG:O	8:T:20:TYR:HD2	2.01	0.44
8:T:82:LYS:C	8:T:84:THR:H	2.20	0.44
10:V:13:VAL:C	10:V:14:VAL:HG23	2.38	0.44
1:A:167:GLY:O	1:A:168:CYS:SG	2.72	0.43
1:A:498:THR:HG21	2:B:1149:GLU:OE1	2.17	0.43
1:A:598:LEU:N	1:A:598:LEU:CD1	2.78	0.43
1:A:738:LEU:HA	1:A:738:LEU:HD23	1.79	0.43
1:A:887:ILE:HG22	1:A:888:PRO:N	2.33	0.43
2:B:1106:ARG:HG3	2:B:1107:ALA:N	2.33	0.43
2:B:480:THR:CG2	2:B:481:TYR:N	2.81	0.43
2:B:702:MET:HB3	2:B:703:THR:H	1.54	0.43
2:B:956:THR:HG22	2:B:957:ASN:O	2.17	0.43
7:G:160:ILE:CG2	7:G:161:GLY:N	2.81	0.43
8:H:12:VAL:HB	8:H:52:ASP:H	1.83	0.43
8:H:19:ARG:O	8:H:20:TYR:HD2	2.01	0.43
10:J:9:SER:OG	10:J:47:ARG:NH2	2.51	0.43
1:M:1274:ILE:HG22	1:M:1274:ILE:O	2.18	0.43
1:M:1393:ASN:CB	1:M:1405:PHE:CD2	3.01	0.43
1:M:320:GLY:CA	2:N:464:LYS:C	2.83	0.43
1:M:321:ARG:HH11	1:M:321:ARG:HG3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:478:PRO:CG	1:M:522:MET:HG2	2.48	0.43
1:M:591:ARG:O	1:M:592:THR:CB	2.66	0.43
1:M:630:LEU:HD23	1:M:630:LEU:C	2.38	0.43
1:M:780:PHE:O	1:M:781:ALA:C	2.55	0.43
2:N:103:GLU:O	2:N:104:ALA:C	2.56	0.43
2:N:376:ASN:C	2:N:380:LEU:HD13	2.38	0.43
2:N:545:GLU:HA	2:N:548:ILE:HB	2.00	0.43
2:N:773:MET:SD	2:N:987:LYS:HB3	2.58	0.43
5:Q:102:LYS:HB3	5:Q:104:PHE:CE2	2.53	0.43
5:Q:160:LYS:HG3	5:Q:194:VAL:HG21	2.00	0.43
8:T:90:ASP:C	8:T:92:TYR:H	2.20	0.43
9:U:109:THR:O	9:U:109:THR:HG22	2.17	0.43
9:U:32:CYS:O	9:U:33:ASP:CG	2.56	0.43
10:V:43:TYR:CA	10:V:46:ARG:HB2	2.32	0.43
1:A:1208:GLN:O	1:A:1209:LEU:HD23	2.17	0.43
1:A:173:PRO:HB3	1:A:186:TRP:CD2	2.52	0.43
1:A:27:ILE:CG1	1:A:239:VAL:HG22	2.48	0.43
1:A:267:LEU:HD23	1:A:267:LEU:HA	1.86	0.43
1:A:424:ASP:HB3	1:A:425:ILE:H	1.60	0.43
1:A:739:LYS:C	1:A:741:LEU:H	2.20	0.43
2:B:1039:GLY:HA2	10:J:50:LEU:HD21	1.96	0.43
2:B:1197:PRO:O	2:B:1200:ALA:N	2.50	0.43
2:B:281:LEU:HD13	2:B:368:THR:CB	2.48	0.43
2:B:356:HIS:C	2:B:358:THR:H	2.21	0.43
2:B:605:GLU:O	2:B:605:GLU:HG2	2.18	0.43
4:D:50:ALA:HB2	4:D:139:PRO:O	2.18	0.43
10:J:47:ARG:HH21	10:J:48:MET:HE1	1.83	0.43
10:J:7:CYS:CB	10:J:48:MET:HE3	2.48	0.43
1:M:1392:ILE:C	1:M:1394:ARG:H	2.20	0.43
1:M:649:ASN:C	1:M:651:GLN:N	2.69	0.43
1:M:739:LYS:CD	1:M:739:LYS:H	2.06	0.43
2:N:107:ARG:NH2	2:N:956:THR:HB	2.33	0.43
2:N:480:THR:CG2	2:N:481:TYR:N	2.82	0.43
2:N:997:GLU:CD	2:N:997:GLU:H	2.20	0.43
2:N:969:ARG:NH1	3:O:60:GLU:OE1	2.51	0.43
7:S:129:ALA:HB1	7:S:137:ILE:O	2.18	0.43
10:V:6:ARG:HG2	10:V:13:VAL:HA	1.99	0.43
1:A:1129:ASP:O	1:A:1132:LYS:HB3	2.18	0.43
1:A:1388:THR:O	1:A:1390:HIS:N	2.51	0.43
1:A:356:GLY:N	1:A:483:PHE:CZ	2.87	0.43
1:A:591:ARG:O	1:A:592:THR:CB	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:630:LEU:C	1:A:630:LEU:HD23	2.38	0.43
2:B:203:LEU:HA	2:B:203:LEU:HD23	1.84	0.43
2:B:758:PHE:C	2:B:760:ASP:N	2.70	0.43
2:B:839:MET:HE1	2:B:980:PHE:HB2	2.00	0.43
2:B:882:THR:HG21	2:B:884:ARG:HB2	1.99	0.43
4:D:176:ASP:O	4:D:178:LEU:N	2.51	0.43
4:D:88:GLU:C	4:D:90:ALA:N	2.71	0.43
5:E:160:LYS:HD2	5:E:194:VAL:HG23	2.01	0.43
7:G:132:SER:HB3	7:G:135:GLU:N	2.32	0.43
8:H:107:ASP:O	8:H:108:GLU:C	2.55	0.43
2:B:800:GLN:CG	10:J:51:THR:HG22	2.42	0.43
11:K:58:PHE:HE2	11:K:74:ARG:HD3	1.84	0.43
1:M:1081:MET:HG2	1:M:1362:ASP:OD2	2.18	0.43
1:M:135:PHE:HB2	1:M:224:GLY:N	2.33	0.43
1:M:262:ASP:O	1:M:265:HIS:HB2	2.18	0.43
1:M:345:ARG:HB3	2:N:1129:ARG:HB2	2.00	0.43
2:N:857:ARG:O	2:N:967:ARG:HA	2.17	0.43
2:N:838:SER:HA	2:N:989:THR:O	2.18	0.43
4:P:54:SER:HB3	4:P:113:ALA:CA	2.47	0.43
6:R:73:ALA:O	6:R:74:ILE:HB	2.18	0.43
11:W:24:ASP:OD1	11:W:26:ARG:HB2	2.18	0.43
1:A:1157:ASP:OD2	1:A:1163:THR:HA	2.18	0.43
2:B:758:PHE:CE2	2:B:1044:ALA:HA	2.53	0.43
2:B:1162:VAL:CG1	2:B:1163:CYS:H	2.28	0.43
2:B:369:PHE:HB3	2:B:579:TRP:HZ3	1.80	0.43
2:B:812:LEU:C	2:B:814:PHE:H	2.21	0.43
2:B:859:TYR:OH	2:B:941:LEU:CD1	2.64	0.43
3:C:181:ASP:O	3:C:181:ASP:CG	2.57	0.43
1:M:1208:GLN:O	1:M:1277:ARG:NH1	2.51	0.43
1:M:1388:THR:O	1:M:1390:HIS:N	2.51	0.43
1:M:27:ILE:CG1	1:M:239:VAL:HG12	2.48	0.43
1:M:424:ASP:HB3	1:M:425:ILE:H	1.60	0.43
1:M:563:GLN:HA	1:M:564:PRO:HD3	1.80	0.43
2:N:1189:THR:HG22	2:N:1190:ASN:N	2.33	0.43
2:N:609:ILE:HG13	2:N:694:GLU:HA	2.00	0.43
3:O:45:ILE:HG13	3:O:71:LEU:HD11	1.99	0.43
6:R:75:LEU:C	6:R:77:GLU:N	2.69	0.43
6:R:82:THR:HG22	6:R:84:TYR:HB2	2.01	0.43
8:T:91:ASP:C	8:T:92:TYR:CD1	2.92	0.43
9:U:108:LYS:CG	9:U:109:THR:H	2.31	0.43
9:U:14:LEU:HD13	9:U:28:SER:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:LYS:HG3	1:A:182:LEU:CD2	2.47	0.43
1:A:1228:VAL:HG22	1:A:1242:CYS:HB3	1.99	0.43
1:A:1274:ILE:O	1:A:1274:ILE:HG22	2.18	0.43
1:A:65:PHE:O	1:A:66:LYS:C	2.56	0.43
1:A:771:VAL:HG12	1:A:772:GLU:N	2.34	0.43
2:B:1159:ARG:NH1	2:B:1159:ARG:CB	2.66	0.43
2:B:532:LEU:HD22	2:B:536:SER:OG	2.19	0.43
2:B:586:PRO:O	2:B:587:SER:C	2.57	0.43
3:C:161:LYS:HB3	3:C:162:GLY:H	1.64	0.43
6:F:75:LEU:C	6:F:77:GLU:N	2.69	0.43
6:F:82:THR:HG22	6:F:84:TYR:HB2	2.01	0.43
9:I:14:LEU:HD13	9:I:28:SER:N	2.33	0.43
3:C:166:GLU:C	11:K:6:ARG:NH1	2.72	0.43
1:M:1388:THR:C	1:M:1390:HIS:N	2.71	0.43
1:M:850:MET:HE1	1:M:1443:ALA:CB	2.48	0.43
1:M:1447:MET:SD	6:R:135:ARG:HD2	2.58	0.43
1:M:312:GLN:CB	1:M:313:PRO:CD	2.96	0.43
1:M:826:ILE:O	1:M:830:VAL:HG23	2.17	0.43
2:N:1071:VAL:O	2:N:1072:MET:HG2	2.19	0.43
2:N:302:MET:HE3	2:N:380:LEU:HD12	1.99	0.43
2:N:797:TYR:CE1	2:N:854:LEU:HD23	2.53	0.43
2:N:868:ILE:O	2:N:870:ILE:HG13	2.17	0.43
2:N:969:ARG:HG2	2:N:970:THR:H	1.84	0.43
4:P:50:ALA:HB2	4:P:139:PRO:O	2.18	0.43
4:P:84:ILE:C	4:P:86:ASP:H	2.22	0.43
8:T:134:LEU:HD13	8:T:136:GLN:HE22	1.76	0.43
9:U:61:ASP:C	9:U:63:GLY:H	2.21	0.43
10:V:7:CYS:SG	10:V:48:MET:CE	3.04	0.43
10:V:9:SER:OG	10:V:47:ARG:NH2	2.51	0.43
11:W:10:PHE:HA	11:W:37:ARG:HB3	2.01	0.43
11:W:58:PHE:HE2	11:W:74:ARG:HD3	1.84	0.43
1:A:212:PHE:HA	1:A:215:ILE:CD1	2.49	0.43
1:A:312:GLN:CB	1:A:313:PRO:CD	2.96	0.43
2:B:1100:ASP:OD2	11:K:1:MET:HB2	2.19	0.43
2:B:1108:ARG:O	2:B:1108:ARG:CG	2.67	0.43
1:A:1441:THR:HB	2:B:1144:ALA:HB3	2.00	0.43
2:B:1162:VAL:HA	2:B:1168:LEU:O	2.19	0.43
2:B:1159:ARG:CD	2:B:1193:GLN:NE2	2.78	0.43
2:B:898:LEU:HD13	2:B:952:VAL:CG1	2.48	0.43
2:B:955:THR:N	2:B:963:PHE:O	2.51	0.43
3:C:131:GLU:HA	3:C:132:PRO:HD3	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:96:VAL:HG12	3:C:98:LEU:HD21	2.00	0.43
5:E:136:GLU:C	5:E:138:ASP:H	2.22	0.43
5:E:54:ARG:C	5:E:56:LEU:H	2.21	0.43
7:G:22:MET:O	7:G:25:TYR:N	2.51	0.43
8:H:111:ILE:HG22	8:H:112:LYS:H	1.81	0.43
1:M:212:PHE:HA	1:M:215:ILE:CD1	2.49	0.43
1:M:739:LYS:C	1:M:741:LEU:H	2.20	0.43
1:M:786:PRO:HG2	1:M:787:HIS:CD2	2.53	0.43
1:M:941:ARG:HG2	1:M:941:ARG:NH1	2.32	0.43
2:N:1108:ARG:CG	2:N:1108:ARG:O	2.67	0.43
2:N:428:CYS:C	2:N:430:GLU:H	2.22	0.43
2:N:508:HIS:HD2	2:N:510:THR:OG1	2.02	0.43
2:N:540:ILE:N	2:N:605:GLU:OE2	2.51	0.43
3:O:116:SER:HB3	3:O:140:GLN:HA	2.01	0.43
4:P:88:GLU:C	4:P:90:ALA:N	2.71	0.43
7:S:111:SER:C	7:S:113:ARG:H	2.21	0.43
8:T:10:PHE:N	8:T:10:PHE:CD1	2.86	0.43
1:M:548:MET:HB3	11:W:58:PHE:HE1	1.84	0.43
1:A:1168:ASP:O	1:A:1169:PHE:C	2.57	0.43
1:A:1335:PHE:O	1:A:1336:VAL:C	2.56	0.43
1:A:1388:THR:C	1:A:1390:HIS:N	2.71	0.43
1:A:1415:ALA:HA	1:A:1420:GLU:OE2	2.19	0.43
1:A:44:SER:O	1:A:45:ARG:CB	2.65	0.43
1:A:689:GLU:C	1:A:691:VAL:N	2.71	0.43
1:A:839:GLN:O	1:A:843:VAL:HG23	2.19	0.43
1:A:948:VAL:HG12	1:A:949:PHE:CD2	2.54	0.43
2:B:1065:GLN:HE21	2:B:1067:ARG:N	2.17	0.43
2:B:1189:THR:HG22	2:B:1190:ASN:N	2.33	0.43
2:B:540:ILE:N	2:B:605:GLU:OE2	2.51	0.43
2:B:773:MET:SD	2:B:987:LYS:HB3	2.58	0.43
2:B:777:ALA:HA	2:B:1095:LEU:HA	2.00	0.43
10:J:8:PHE:H	10:J:48:MET:HE1	1.83	0.43
1:M:1345:GLU:OE2	5:Q:211:ARG:NH1	2.51	0.43
1:M:333:LYS:CA	1:M:338:ARG:HD2	2.49	0.43
1:M:479:TYR:O	1:M:480:ASN:HB3	2.18	0.43
1:M:883:THR:HA	1:M:954:HIS:O	2.19	0.43
1:M:964:ARG:O	1:M:967:GLN:N	2.51	0.43
2:N:1060:ARG:HD2	2:N:1060:ARG:HA	1.78	0.43
2:N:1217:TYR:CE2	4:P:14:ARG:N	2.83	0.43
3:O:32:LEU:CD1	3:O:36:MET:HE2	2.48	0.43
10:V:36:ASP:CG	10:V:46:ARG:NH2	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:55:LEU:O	10:V:57:GLU:N	2.52	0.43
1:A:145:LYS:C	1:A:146:MET:HG3	2.39	0.43
1:A:333:LYS:CA	1:A:338:ARG:HD2	2.49	0.43
1:A:346:VAL:HG11	2:B:1130:PHE:CB	2.47	0.43
1:A:471:LEU:O	1:A:471:LEU:HD12	2.19	0.43
1:A:609:VAL:O	1:A:611:GLY:N	2.52	0.43
1:A:786:PRO:HG2	1:A:787:HIS:CD2	2.53	0.43
2:B:1085:VAL:CG1	2:B:1086:PHE:N	2.81	0.43
2:B:1120:GLU:CG	2:B:1121:GLY:N	2.81	0.43
2:B:1192:TYR:N	2:B:1192:TYR:CD1	2.86	0.43
2:B:1201:LYS:HG2	2:B:1202:LEU:N	2.28	0.43
1:A:780:PHE:CE2	2:B:510:THR:HA	2.54	0.43
2:B:54:PRO:HB2	2:B:79:PHE:CD1	2.53	0.43
2:B:107:ARG:NH2	2:B:956:THR:HB	2.33	0.43
7:G:111:SER:C	7:G:113:ARG:H	2.21	0.43
10:J:36:ASP:CG	10:J:46:ARG:NH2	2.72	0.43
1:M:1129:ASP:O	1:M:1132:LYS:HB3	2.18	0.43
1:M:1352:TYR:HA	1:M:1355:ILE:CG2	2.48	0.43
1:M:265:HIS:C	1:M:267:LEU:N	2.72	0.43
1:M:306:ASP:OD1	1:M:307:ASN:N	2.52	0.43
1:M:40:ILE:C	1:M:41:MET:HG3	2.38	0.43
1:M:606:MET:HG2	1:M:622:THR:HG23	2.00	0.43
1:M:62:ASP:O	1:M:63:ARG:HB2	2.18	0.43
1:M:65:PHE:O	1:M:66:LYS:C	2.56	0.43
1:M:710:THR:CG2	9:U:94:ASP:HA	2.49	0.43
1:M:839:GLN:O	1:M:843:VAL:HG23	2.19	0.43
2:N:225:ILE:CG2	2:N:228:VAL:HG23	2.46	0.43
2:N:287:GLY:CA	2:N:290:LEU:HD23	2.48	0.43
2:N:843:GLN:O	2:N:846:ILE:N	2.51	0.43
2:N:839:MET:HE1	2:N:980:PHE:HB2	2.00	0.43
3:O:16:GLU:O	3:O:17:VAL:CG2	2.67	0.43
3:O:28:LEU:HA	11:W:45:LEU:CD1	2.49	0.43
6:R:124:GLU:O	6:R:130:ILE:HG13	2.18	0.43
8:T:5:LEU:HD22	8:T:132:ALA:O	2.19	0.43
8:T:3:SER:O	8:T:60:ALA:HB1	2.18	0.43
2:N:737:THR:HG22	9:U:66:PRO:HA	1.98	0.43
2:N:1100:ASP:OD2	11:W:1:MET:HB2	2.19	0.43
1:M:549:ASN:HD21	11:W:47:ARG:CZ	2.31	0.43
1:A:116:ASP:C	1:A:118:THR:N	2.71	0.43
2:B:231:ILE:HG21	2:B:374:MET:CE	2.49	0.43
2:B:287:GLY:CA	2:B:290:LEU:HD23	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:588:MET:O	2:B:589:LEU:C	2.56	0.43
5:E:12:TRP:O	5:E:15:PHE:HB3	2.18	0.43
5:E:32:GLU:C	5:E:34:MET:N	2.72	0.43
9:I:108:LYS:CG	9:I:109:THR:H	2.31	0.43
1:A:1153:GLU:HG2	9:I:45:ARG:HG3	2.01	0.43
10:J:55:LEU:O	10:J:57:GLU:N	2.51	0.43
1:M:1072:GLN:O	1:M:1073:SER:C	2.57	0.43
1:M:1168:ASP:O	1:M:1169:PHE:C	2.57	0.43
1:M:1195:LEU:HD22	1:M:1263:LEU:HD11	2.00	0.43
1:M:254:ASP:O	1:M:255:GLU:HG3	2.19	0.43
1:M:520:PRO:HD3	1:M:632:HIS:CD2	2.54	0.43
1:M:664:SER:OG	1:M:665:ILE:N	2.52	0.43
1:M:859:ASN:ND2	1:M:861:LEU:N	2.59	0.43
1:M:948:VAL:HG12	1:M:949:PHE:CD2	2.54	0.43
2:N:1084:GLN:NE2	2:N:1084:GLN:N	2.67	0.43
2:N:1125:ASP:O	2:N:1126:GLY:O	2.37	0.43
2:N:1202:LEU:CD2	2:N:1206:GLU:CD	2.87	0.43
2:N:286:ASP:C	2:N:288:GLU:N	2.72	0.43
2:N:317:GLN:O	2:N:318:ASP:HB3	2.19	0.43
2:N:381:CYS:O	2:N:383:LEU:N	2.52	0.43
2:N:442:LYS:O	2:N:444:THR:N	2.44	0.43
2:N:588:MET:O	2:N:589:LEU:C	2.56	0.43
2:N:605:GLU:O	2:N:605:GLU:HG2	2.18	0.43
2:N:54:PRO:HB2	2:N:79:PHE:CD1	2.53	0.43
2:N:882:THR:O	2:N:883:LEU:CB	2.63	0.43
1:A:1449:ASP:OD1	1:A:1452:LEU:CG	2.67	0.43
1:A:479:TYR:O	1:A:480:ASN:HB3	2.18	0.43
1:A:548:MET:HB3	11:K:58:PHE:HE1	1.84	0.43
1:A:761:GLN:HG2	1:A:766:VAL:O	2.19	0.43
1:A:781:ALA:O	1:A:783:ARG:HG2	2.19	0.43
1:A:911:PRO:HB3	1:A:917:ALA:HB1	1.84	0.43
2:B:1013:ASN:OD1	2:B:1015:HIS:HB2	2.19	0.43
2:B:1084:GLN:N	2:B:1084:GLN:NE2	2.67	0.43
2:B:1220:ARG:NH1	2:B:1220:ARG:CB	2.77	0.43
2:B:428:CYS:C	2:B:430:GLU:H	2.22	0.43
2:B:466:MET:O	2:B:468:SER:N	2.40	0.43
2:B:523:GLY:O	2:B:524:GLN:C	2.56	0.43
4:D:122:THR:CB	4:D:126:GLN:HE21	2.32	0.43
6:F:73:ALA:O	6:F:74:ILE:HB	2.18	0.43
8:H:19:ARG:C	8:H:20:TYR:HD2	2.21	0.43
10:J:13:VAL:C	10:J:14:VAL:HG23	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1199:LEU:HD11	1:M:1240:ILE:HD11	2.01	0.43
1:M:1065:MET:SD	1:M:1439:MET:HA	2.59	0.43
1:M:145:LYS:C	1:M:146:MET:HG3	2.39	0.43
1:M:306:ASP:OD2	1:M:327:ARG:HD3	2.18	0.43
1:M:780:PHE:CE2	2:N:510:THR:HA	2.54	0.43
1:M:835:THR:CG2	1:M:836:GLY:N	2.81	0.43
2:N:1120:GLU:CG	2:N:1121:GLY:N	2.81	0.43
2:N:401:LEU:O	2:N:404:PRO:HD2	2.18	0.43
2:N:532:LEU:HD22	2:N:536:SER:OG	2.19	0.43
2:N:603:SER:HA	2:N:604:PRO:HD3	1.92	0.43
2:N:777:ALA:HA	2:N:1095:LEU:HA	2.00	0.43
2:N:755:ILE:HG22	2:N:809:MET:HE2	2.00	0.43
2:N:874:PHE:HA	2:N:913:GLY:O	2.18	0.43
3:O:181:ASP:O	3:O:181:ASP:CG	2.57	0.43
3:O:68:LEU:HD12	3:O:68:LEU:N	2.34	0.43
5:Q:89:ILE:CG1	5:Q:118:SER:HB2	2.48	0.43
5:Q:136:GLU:C	5:Q:138:ASP:H	2.22	0.43
7:S:153:ASP:O	7:S:154:VAL:O	2.37	0.43
7:S:12:THR:HG22	7:S:67:SER:HB3	2.01	0.43
8:T:112:LYS:HA	8:T:124:LEU:O	2.19	0.43
1:M:1153:GLU:HG2	9:U:45:ARG:HG3	2.01	0.43
2:N:954:LEU:O	12:X:57:VAL:O	2.37	0.43
1:A:1072:GLN:O	1:A:1073:SER:C	2.57	0.42
1:A:1199:LEU:HD11	1:A:1240:ILE:HD11	2.01	0.42
1:A:1316:LEU:C	1:A:1318:GLU:N	2.70	0.42
1:A:262:ASP:O	1:A:265:HIS:HB2	2.18	0.42
1:A:303:THR:CG2	1:A:304:TYR:N	2.71	0.42
1:A:520:PRO:HD3	1:A:632:HIS:CD2	2.54	0.42
1:A:90:VAL:O	1:A:236:ILE:HG23	2.19	0.42
2:B:1197:PRO:HG2	2:B:1200:ALA:HB2	2.00	0.42
2:B:174:THR:O	2:B:175:LEU:C	2.58	0.42
2:B:180:LEU:O	2:B:182:LYS:N	2.52	0.42
2:B:31:VAL:O	2:B:32:SER:C	2.54	0.42
2:B:459:TRP:HA	2:B:459:TRP:HE3	1.82	0.42
2:B:508:HIS:HD2	2:B:510:THR:OG1	2.02	0.42
2:B:633:VAL:O	2:B:644:GLU:O	2.37	0.42
2:B:12:ILE:HD11	2:B:648:THR:N	2.34	0.42
2:B:838:SER:HA	2:B:989:THR:O	2.19	0.42
2:B:969:ARG:HG2	2:B:970:THR:H	1.84	0.42
7:G:117:ASP:O	7:G:119:LEU:N	2.51	0.42
8:H:10:PHE:N	8:H:10:PHE:CD1	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:91:ASP:C	8:H:92:TYR:CD1	2.92	0.42
1:M:1276:LEU:CD1	1:M:1276:LEU:N	2.82	0.42
1:M:410:ASN:O	1:M:411:GLY:C	2.56	0.42
1:M:342:MET:HE1	1:M:844:LYS:HZ2	1.76	0.42
2:N:1104:HIS:CG	2:N:1122:ARG:HB2	2.54	0.42
1:M:351:ARG:HD2	2:N:1128:LEU:HD21	2.00	0.42
2:N:1162:VAL:HA	2:N:1168:LEU:O	2.19	0.42
2:N:180:LEU:O	2:N:182:LYS:N	2.52	0.42
2:N:356:HIS:C	2:N:358:THR:H	2.21	0.42
2:N:410:PHE:O	2:N:413:LEU:HB2	2.19	0.42
2:N:586:PRO:O	2:N:587:SER:C	2.57	0.42
2:N:633:VAL:O	2:N:644:GLU:O	2.37	0.42
2:N:758:PHE:CE2	2:N:1044:ALA:HA	2.53	0.42
2:N:956:THR:HG22	2:N:957:ASN:N	2.34	0.42
4:P:122:THR:CB	4:P:126:GLN:HE21	2.32	0.42
12:X:57:VAL:O	12:X:58:ILE:CB	2.66	0.42
1:A:1125:GLU:O	1:A:1126:ILE:C	2.57	0.42
1:A:1353:LYS:O	1:A:1357:ASN:ND2	2.51	0.42
1:A:203:LEU:CG	1:A:207:GLU:N	2.82	0.42
1:A:306:ASP:OD1	1:A:307:ASN:N	2.52	0.42
1:A:465:PRO:O	1:A:466:TYR:O	2.36	0.42
1:A:780:PHE:CE1	1:A:786:PRO:CD	2.89	0.42
1:A:764:ALA:C	1:A:804:SER:HB3	2.38	0.42
1:A:835:THR:CG2	1:A:836:GLY:N	2.81	0.42
1:A:916:TYR:CG	1:A:920:ILE:HD12	2.54	0.42
2:B:1104:HIS:CG	2:B:1122:ARG:HB2	2.54	0.42
2:B:1125:ASP:O	2:B:1126:GLY:O	2.37	0.42
2:B:1162:VAL:HG12	2:B:1163:CYS:H	1.77	0.42
2:B:1169:MET:HE1	2:B:1204:PHE:HB2	1.99	0.42
2:B:1202:LEU:CD2	2:B:1206:GLU:CD	2.87	0.42
2:B:545:GLU:HA	2:B:548:ILE:HB	2.00	0.42
4:D:67:ARG:O	4:D:71:ARG:HB2	2.19	0.42
7:G:126:SER:HA	7:G:127:PRO:HA	1.73	0.42
10:J:21:TYR:C	10:J:23:ARG:H	2.23	0.42
3:C:65:ARG:HH11	10:J:2:ILE:HG21	1.82	0.42
10:J:55:LEU:O	10:J:56:ILE:C	2.56	0.42
12:L:63:THR:HG22	12:L:65:ARG:HG3	1.98	0.42
1:M:356:GLY:N	1:M:483:PHE:CZ	2.87	0.42
1:M:882:GLN:NE2	1:M:961:ASN:HA	2.35	0.42
2:N:295:TYR:CD2	2:N:295:TYR:N	2.87	0.42
2:N:523:GLY:O	2:N:524:GLN:C	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:843:GLN:O	2:N:846:ILE:HB	2.19	0.42
5:Q:177:ILE:HG22	5:Q:212:ILE:O	2.19	0.42
7:S:30:LEU:HD22	7:S:72:VAL:HG11	2.01	0.42
8:T:26:ILE:CG2	8:T:27:ILE:N	2.82	0.42
1:A:1171:THR:O	1:A:1171:THR:HG22	2.20	0.42
1:A:1276:LEU:N	1:A:1276:LEU:CD1	2.82	0.42
1:A:1283:SER:O	1:A:1285:VAL:HG23	2.18	0.42
1:A:1294:VAL:HG13	1:A:1295:PRO:CD	2.48	0.42
1:A:20:GLY:HA2	1:A:1416:GLY:O	2.19	0.42
1:A:859:ASN:C	1:A:861:LEU:H	2.23	0.42
2:B:798:TYR:CE2	3:C:61:PHE:CZ	3.08	0.42
2:B:874:PHE:HA	2:B:913:GLY:O	2.19	0.42
5:E:163:LEU:HD13	5:E:210:TYR:CE2	2.54	0.42
1:A:1447:MET:HE1	6:F:135:ARG:HB2	2.01	0.42
7:G:153:ASP:O	7:G:154:VAL:O	2.37	0.42
1:A:1447:MET:C	7:G:59:GLY:O	2.56	0.42
7:G:30:LEU:HD22	7:G:72:VAL:HG11	2.01	0.42
1:M:39:GLU:O	1:M:53:LEU:CB	2.67	0.42
1:M:689:GLU:C	1:M:691:VAL:N	2.71	0.42
2:N:702:MET:H	2:N:707:LEU:HD12	1.83	0.42
2:N:879:ARG:HB3	2:N:880:ALA:H	1.52	0.42
2:N:916:THR:HG22	2:N:918:ILE:HG13	2.00	0.42
2:N:857:ARG:HH11	2:N:945:GLU:CD	2.23	0.42
2:N:973:VAL:HG12	2:N:974:PRO:O	2.20	0.42
2:N:798:TYR:CE2	3:O:61:PHE:CZ	3.08	0.42
4:P:148:LEU:HA	4:P:148:LEU:HD23	1.87	0.42
4:P:52:SER:O	4:P:53:LEU:O	2.38	0.42
6:R:97:ARG:HD2	6:R:97:ARG:HA	1.70	0.42
8:T:122:MET:HG2	8:T:123:CYS:N	2.33	0.42
9:U:90:GLN:HE21	9:U:92:ARG:HD3	1.85	0.42
10:V:35:LEU:CD1	10:V:46:ARG:NH1	2.82	0.42
1:A:1222:PHE:CD1	1:A:1226:LEU:HD23	2.54	0.42
1:A:321:ARG:HH11	1:A:321:ARG:HG3	1.83	0.42
1:A:75:ALA:O	1:A:76:GLU:CB	2.67	0.42
1:A:91:PHE:H	1:A:298:GLN:NE2	2.10	0.42
1:A:345:ARG:NH1	2:B:1129:ARG:HB2	2.34	0.42
2:B:363:PHE:HD2	2:B:366:ARG:HD2	1.84	0.42
2:B:524:GLN:HB2	2:B:525:ALA:H	1.59	0.42
3:C:236:GLY:O	3:C:237:SER:C	2.58	0.42
3:C:28:LEU:HA	11:K:45:LEU:CD1	2.49	0.42
4:D:141:GLU:C	4:D:143:ALA:H	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:84:GLU:OE2	5:E:91:THR:HG21	2.19	0.42
6:F:125:LEU:HA	6:F:130:ILE:HD11	2.02	0.42
1:A:615:PHE:CB	8:H:121:LEU:HD21	2.50	0.42
8:H:26:ILE:CG2	8:H:27:ILE:N	2.82	0.42
8:H:90:ASP:C	8:H:92:TYR:H	2.20	0.42
11:K:10:PHE:HA	11:K:37:ARG:HB3	2.01	0.42
1:M:1043:ALA:O	1:M:1046:TRP:HB3	2.20	0.42
1:M:1159:ASP:HA	1:M:1160:PRO:HD2	1.97	0.42
1:M:1415:ALA:HA	1:M:1420:GLU:OE2	2.19	0.42
1:M:86:LEU:CG	1:M:238:THR:O	2.66	0.42
1:M:609:VAL:O	1:M:611:GLY:N	2.52	0.42
1:M:771:VAL:HG12	1:M:772:GLU:N	2.34	0.42
1:M:764:ALA:C	1:M:804:SER:HB3	2.38	0.42
2:N:1013:ASN:OD1	2:N:1015:HIS:HB2	2.19	0.42
2:N:1065:GLN:HE21	2:N:1067:ARG:N	2.17	0.42
2:N:1117:GLN:HG3	2:N:1156:ASP:CG	2.38	0.42
2:N:632:ILE:HD12	2:N:685:GLY:O	2.19	0.42
2:N:781:PHE:O	2:N:782:LEU:HD23	2.20	0.42
2:N:186:CYS:HB2	2:N:784:ASN:OD1	2.19	0.42
2:N:87:PRO:HG3	2:N:163:ILE:HD12	2.01	0.42
3:O:168:ALA:C	3:O:170:TRP:N	2.72	0.42
3:O:189:THR:CG2	3:O:190:ASP:N	2.82	0.42
3:O:9:ILE:H	3:O:9:ILE:HG13	1.45	0.42
4:P:67:ARG:O	4:P:71:ARG:HB2	2.19	0.42
1:M:1453:LEU:HD13	6:R:131:PRO:HG3	2.01	0.42
6:R:73:ALA:O	6:R:74:ILE:CB	2.67	0.42
7:S:125:ASN:CG	7:S:128:PRO:HA	2.40	0.42
1:M:615:PHE:CB	8:T:121:LEU:HD21	2.49	0.42
10:V:55:LEU:O	10:V:56:ILE:C	2.56	0.42
1:A:1059:LEU:CG	1:A:1060:VAL:N	2.82	0.42
1:A:1222:PHE:CG	1:A:1226:LEU:HD23	2.55	0.42
1:A:1371:MET:HE2	1:A:1371:MET:H	1.85	0.42
1:A:86:LEU:CG	1:A:238:THR:O	2.66	0.42
1:A:267:LEU:HD21	1:A:304:TYR:CZ	2.54	0.42
1:A:40:ILE:C	1:A:41:MET:HG3	2.38	0.42
1:A:41:MET:N	1:A:41:MET:CE	2.83	0.42
1:A:354:ILE:HG23	1:A:488:MET:HG3	1.99	0.42
1:A:710:THR:HG22	1:A:712:ARG:N	2.25	0.42
2:B:984:HIS:HB3	2:B:1022:THR:OG1	2.18	0.42
2:B:317:GLN:O	2:B:318:ASP:HB3	2.19	0.42
2:B:882:THR:HG21	2:B:935:ARG:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:912:ILE:CG2	2:B:913:GLY:N	2.83	0.42
2:B:857:ARG:HH11	2:B:945:GLU:CD	2.23	0.42
3:C:119:ILE:CG1	3:C:120:LYS:N	2.82	0.42
4:D:35:ALA:C	4:D:37:LYS:N	2.70	0.42
5:E:80:GLU:O	5:E:110:ILE:CG2	2.31	0.42
6:F:73:ALA:O	6:F:74:ILE:CB	2.67	0.42
1:A:538:ARG:NH2	8:H:121:LEU:HD12	2.25	0.42
8:H:42:ILE:CG2	8:H:43:ASN:N	2.81	0.42
10:J:2:ILE:H	10:J:56:ILE:CG2	2.32	0.42
1:M:1063:GLY:O	1:M:1440:GLY:CA	2.68	0.42
1:M:1171:THR:HG22	1:M:1171:THR:O	2.19	0.42
1:M:20:GLY:HA2	1:M:1416:GLY:O	2.20	0.42
1:M:39:GLU:N	1:M:39:GLU:OE1	2.53	0.42
1:M:459:HIS:CE1	1:M:508:VAL:CG2	3.03	0.42
1:M:606:MET:HG2	1:M:622:THR:HG21	2.02	0.42
1:M:859:ASN:C	1:M:861:LEU:H	2.23	0.42
2:N:1085:VAL:CG1	2:N:1086:PHE:N	2.82	0.42
2:N:111:TYR:HE2	2:N:170:CYS:SG	2.42	0.42
2:N:1177:LYS:O	2:N:1179:GLN:N	2.43	0.42
2:N:22:SER:HA	2:N:811:TYR:CE2	2.49	0.42
2:N:285:PRO:HD2	2:N:288:GLU:OE1	2.20	0.42
2:N:231:ILE:HG21	2:N:374:MET:CE	2.49	0.42
2:N:466:MET:C	2:N:468:SER:H	2.18	0.42
2:N:992:VAL:CG2	2:N:993:THR:H	2.27	0.42
3:O:119:ILE:CG1	3:O:120:LYS:N	2.82	0.42
3:O:166:GLU:C	11:W:6:ARG:NH1	2.72	0.42
3:O:175:ALA:CB	10:V:42:ARG:NH2	2.71	0.42
5:Q:189:LEU:C	5:Q:190:LYS:HG3	2.40	0.42
5:Q:160:LYS:HD2	5:Q:194:VAL:HG23	2.01	0.42
6:R:74:ILE:HD12	6:R:143:TYR:O	2.19	0.42
7:S:138:THR:CG2	7:S:139:LYS:N	2.45	0.42
10:V:46:ARG:CG	10:V:46:ARG:HH11	2.30	0.42
1:A:483:PHE:O	2:B:989:THR:CG2	2.62	0.42
2:B:381:CYS:O	2:B:383:LEU:N	2.52	0.42
2:B:557:GLU:HA	2:B:558:PRO:HD2	1.87	0.42
2:B:586:PRO:HG2	2:B:610:ARG:CZ	2.50	0.42
2:B:936:ASP:C	2:B:936:ASP:OD1	2.58	0.42
3:C:166:GLU:O	11:K:6:ARG:NH1	2.52	0.42
3:C:16:GLU:O	3:C:17:VAL:CG2	2.67	0.42
3:C:189:THR:CG2	3:C:190:ASP:N	2.82	0.42
6:F:123:LYS:HE3	6:F:123:LYS:HB2	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1157:ASP:OD2	1:M:1163:THR:HA	2.18	0.42
1:M:1393:ASN:CA	1:M:1402:ARG:HG2	2.50	0.42
1:M:267:LEU:HD21	1:M:304:TYR:CZ	2.54	0.42
1:M:267:LEU:HD23	1:M:267:LEU:HA	1.86	0.42
2:N:394:PHE:CB	2:N:510:THR:HB	2.49	0.42
2:N:56:LEU:HB3	2:N:425:MET:HE1	2.01	0.42
2:N:859:TYR:OH	2:N:941:LEU:CD1	2.64	0.42
2:N:882:THR:HG21	2:N:935:ARG:CA	2.49	0.42
11:W:43:ALA:O	11:W:46:LEU:N	2.52	0.42
1:A:306:ASP:OD2	1:A:327:ARG:HD3	2.18	0.42
1:A:384:TYR:N	1:A:384:TYR:CD2	2.87	0.42
1:A:459:HIS:CE1	1:A:508:VAL:CG2	3.03	0.42
1:A:39:GLU:O	1:A:53:LEU:CB	2.66	0.42
1:A:606:MET:HG2	1:A:622:THR:HG21	2.02	0.42
1:A:630:LEU:CA	1:A:633:THR:CG2	2.97	0.42
1:A:664:SER:OG	1:A:665:ILE:N	2.52	0.42
1:A:67:CYS:O	1:A:67:CYS:SG	2.78	0.42
1:A:710:THR:CG2	9:I:94:ASP:HA	2.49	0.42
1:A:882:GLN:NE2	1:A:961:ASN:HA	2.34	0.42
1:A:883:THR:HA	1:A:954:HIS:O	2.19	0.42
2:B:1071:VAL:O	2:B:1072:MET:HG2	2.19	0.42
2:B:222:PRO:O	2:B:223:SER:HB2	2.20	0.42
2:B:370:PHE:C	2:B:372:GLY:H	2.23	0.42
2:B:410:PHE:O	2:B:413:LEU:HB2	2.19	0.42
2:B:781:PHE:O	2:B:782:LEU:HD23	2.20	0.42
2:B:806:THR:HB	2:B:809:MET:HG3	2.02	0.42
2:B:843:GLN:O	2:B:846:ILE:N	2.51	0.42
2:B:889:THR:C	2:B:910:ILE:HG22	2.28	0.42
2:B:956:THR:HG22	2:B:957:ASN:N	2.34	0.42
3:C:116:SER:HB3	3:C:140:GLN:HA	2.01	0.42
3:C:168:ALA:C	3:C:170:TRP:N	2.72	0.42
3:C:221:TYR:CD1	3:C:222:LYS:N	2.87	0.42
5:E:177:ILE:HG22	5:E:212:ILE:O	2.19	0.42
5:E:90:LYS:O	5:E:92:MET:N	2.53	0.42
7:G:125:ASN:CG	7:G:128:PRO:HA	2.40	0.42
8:H:122:MET:HG2	8:H:123:CYS:N	2.33	0.42
8:H:112:LYS:HA	8:H:124:LEU:O	2.19	0.42
8:H:42:ILE:HG23	8:H:94:TYR:HE1	1.85	0.42
10:J:35:LEU:CD1	10:J:46:ARG:NH1	2.82	0.42
1:M:1059:LEU:CG	1:M:1060:VAL:N	2.82	0.42
1:M:1199:LEU:HD11	1:M:1240:ILE:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1353:LYS:O	1:M:1357:ASN:ND2	2.51	0.42
1:M:667:ILE:HG12	2:N:1030:LEU:HD22	2.02	0.42
2:N:1031:LEU:HD11	2:N:1042:GLY:CA	2.50	0.42
2:N:1159:ARG:HD3	2:N:1193:GLN:NE2	2.35	0.42
2:N:174:THR:O	2:N:175:LEU:C	2.58	0.42
2:N:222:PRO:O	2:N:223:SER:HB2	2.20	0.42
2:N:401:LEU:HD13	2:N:538:ILE:CD1	2.49	0.42
2:N:898:LEU:HD13	2:N:952:VAL:CG1	2.48	0.42
2:N:945:GLU:O	2:N:946:ASN:CB	2.68	0.42
3:O:166:GLU:O	11:W:6:ARG:NH1	2.53	0.42
3:O:248:ILE:HG23	11:W:98:LEU:HD22	2.00	0.42
3:O:32:LEU:HG	3:O:36:MET:HE2	2.01	0.42
3:O:96:VAL:HG12	3:O:98:LEU:HD21	2.00	0.42
2:N:1215:ARG:CZ	4:P:15:ALA:HB1	2.49	0.42
7:S:129:ALA:HB2	7:S:138:THR:OG1	2.19	0.42
8:T:58:THR:CG2	8:T:59:LEU:N	2.82	0.42
1:A:897:ARG:O	1:A:1031:ARG:HB3	2.20	0.42
1:A:1044:PHE:CD2	1:A:1048:LEU:HD11	2.54	0.42
1:A:1199:LEU:HD11	1:A:1240:ILE:CD1	2.50	0.42
1:A:37:TYR:HB2	1:A:52:GLY:CA	2.43	0.42
1:A:90:VAL:HG12	1:A:91:PHE:H	1.85	0.42
2:B:1168:LEU:HD13	2:B:1208:MET:HE1	2.01	0.42
2:B:1204:PHE:O	2:B:1205:GLN:C	2.58	0.42
3:C:146:LYS:HB2	10:J:56:ILE:HD11	2.02	0.42
2:B:1080:LYS:HG3	3:C:180:TYR:CE2	2.55	0.42
3:C:220:ASP:OD1	3:C:220:ASP:C	2.58	0.42
7:G:40:GLY:HA2	7:G:157:ILE:HD11	2.02	0.42
8:H:117:PHE:O	8:H:119:GLY:N	2.53	0.42
1:M:1300:GLU:HG3	1:M:1300:GLU:H	1.45	0.42
1:M:1389:ARG:N	1:M:1405:PHE:CE2	2.88	0.42
1:M:203:LEU:CG	1:M:207:GLU:N	2.82	0.42
1:M:319:SER:C	2:N:464:LYS:CA	2.87	0.42
1:M:756:PHE:O	1:M:757:ILE:C	2.58	0.42
1:M:916:TYR:CG	1:M:920:ILE:HD12	2.54	0.42
2:N:363:PHE:HD2	2:N:366:ARG:HD2	1.84	0.42
2:N:596:LEU:HD12	2:N:602:ILE:CG2	2.48	0.42
2:N:792:MET:CE	2:N:857:ARG:NH2	2.83	0.42
2:N:812:LEU:C	2:N:814:PHE:H	2.21	0.42
3:O:252:GLN:HG3	11:W:95:ILE:HG23	2.02	0.42
4:P:141:GLU:C	4:P:143:ALA:H	2.22	0.42
4:P:25:ALA:C	4:P:27:LEU:N	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:153:ILE:HG22	5:Q:154:ARG:O	2.20	0.42
5:Q:163:LEU:HD13	5:Q:210:TYR:CE2	2.54	0.42
8:T:5:LEU:N	8:T:60:ALA:HB2	2.35	0.42
1:A:317:GLN:O	1:A:318:LYS:C	2.59	0.42
1:A:667:ILE:CD1	1:A:668:GLY:N	2.82	0.42
1:A:799:GLY:CA	1:A:816:PHE:HD1	2.10	0.42
2:B:637:GLU:C	2:B:639:LYS:N	2.73	0.42
2:B:701:ALA:HB2	2:B:738:PHE:HD2	1.77	0.42
4:D:34:PHE:CE2	7:G:80:LYS:NZ	2.78	0.42
8:H:5:LEU:HD22	8:H:132:ALA:O	2.19	0.42
9:I:40:ASP:CG	9:I:41:PRO:CD	2.88	0.42
1:M:1125:GLU:O	1:M:1126:ILE:C	2.57	0.42
1:M:1449:ASP:OD1	1:M:1452:LEU:CG	2.67	0.42
1:M:384:TYR:N	1:M:384:TYR:CD2	2.87	0.42
2:N:999:MET:HE2	2:N:1011:ILE:CD1	2.49	0.42
5:Q:136:GLU:O	5:Q:138:ASP:N	2.53	0.42
6:R:123:LYS:HE3	6:R:123:LYS:HB2	1.82	0.42
8:T:117:PHE:O	8:T:119:GLY:N	2.53	0.42
1:A:1043:ALA:O	1:A:1046:TRP:HB3	2.20	0.42
1:A:111:GLY:O	1:A:215:ILE:HA	2.20	0.42
1:A:323:VAL:O	1:A:323:VAL:HG12	2.20	0.42
1:A:39:GLU:OE1	1:A:39:GLU:N	2.53	0.42
4:D:52:SER:O	4:D:53:LEU:O	2.38	0.42
10:J:12:LYS:O	10:J:14:VAL:HG23	2.20	0.42
1:M:1044:PHE:CD2	1:M:1048:LEU:HD11	2.54	0.42
1:M:1222:PHE:CD1	1:M:1226:LEU:HD23	2.54	0.42
1:M:90:VAL:O	1:M:236:ILE:HG23	2.19	0.42
2:N:316:ILE:HG12	2:N:321:VAL:HG11	2.01	0.42
2:N:370:PHE:C	2:N:372:GLY:H	2.23	0.42
2:N:78:ARG:CG	2:N:120:GLU:HB2	2.50	0.42
3:O:221:TYR:CD1	3:O:222:LYS:N	2.87	0.42
5:Q:90:LYS:O	5:Q:92:MET:N	2.53	0.42
8:T:42:ILE:HG23	8:T:94:TYR:HE1	1.85	0.42
1:A:838:ILE:HD11	1:A:1104:LYS:HG3	2.02	0.41
1:A:1352:TYR:CD2	1:A:1353:LYS:N	2.88	0.41
1:A:265:HIS:C	1:A:267:LEU:N	2.72	0.41
1:A:603:ASP:O	1:A:617:VAL:HG23	2.20	0.41
1:A:667:ILE:HG12	2:B:1030:LEU:HD22	2.02	0.41
2:B:1106:ARG:CG	2:B:1107:ALA:N	2.82	0.41
2:B:111:TYR:HE2	2:B:170:CYS:SG	2.42	0.41
2:B:1166:CYS:O	2:B:1166:CYS:SG	2.78	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
2:B:831:SER:HB2	2:B:833:TYR:CD1	2.55	0.41
2:B:792:MET:CE	2:B:857:ARG:NH2	2.83	0.41
2:B:871:VAL:CG1	2:B:872:GLU:N	2.83	0.41
2:B:973:VAL:HG12	2:B:974:PRO:O	2.19	0.41
4:D:35:ALA:O	4:D:37:LYS:N	2.53	0.41
6:F:107:VAL:HG12	6:F:108:LEU:N	2.35	0.41
7:G:12:THR:HG22	7:G:67:SER:HB3	2.01	0.41
10:J:52:HIS:C	10:J:52:HIS:CD2	2.94	0.41
11:K:43:ALA:O	11:K:46:LEU:N	2.52	0.41
1:M:1074:ILE:HD11	1:M:1371:MET:CA	2.45	0.41
1:M:1282:ILE:HD11	1:M:1319:VAL:CG2	2.50	0.41
1:M:344:LYS:HE3	2:N:1151:LEU:CB	2.50	0.41
1:M:667:ILE:CD1	1:M:668:GLY:N	2.82	0.41
1:M:451:LEU:HB3	1:M:839:GLN:NE2	2.35	0.41
2:N:1004:GLU:CB	2:N:1006:ILE:HG12	2.43	0.41
2:N:1080:LYS:HG3	3:O:180:TYR:CE2	2.55	0.41
1:M:351:ARG:HB3	2:N:1128:LEU:HD21	2.02	0.41
2:N:12:ILE:HD11	2:N:648:THR:N	2.34	0.41
2:N:630:LEU:CD2	2:N:742:GLU:HA	2.50	0.41
2:N:806:THR:HB	2:N:809:MET:HG3	2.02	0.41
2:N:830:TYR:HB3	2:N:831:SER:H	1.69	0.41
2:N:1069:PHE:O	3:O:201:TRP:HH2	2.03	0.41
5:Q:110:ILE:O	5:Q:110:ILE:HG23	2.19	0.41
5:Q:146:HIS:HD2	5:Q:148:LEU:H	1.68	0.41
5:Q:32:GLU:C	5:Q:34:MET:N	2.72	0.41
6:R:99:LEU:HD21	7:S:63:PRO:O	2.20	0.41
7:S:49:LEU:O	7:S:50:ASP:C	2.58	0.41
9:U:58:ILE:HG23	9:U:58:ILE:O	2.20	0.41
2:N:387:ASP:CG	9:U:91:ARG:CD	2.88	0.41
1:A:1453:LEU:HD21	7:G:18:PHE:CB	2.49	0.41
1:A:135:PHE:HB2	1:A:224:GLY:N	2.34	0.41
1:A:475:VAL:HG13	1:A:475:VAL:O	2.20	0.41
1:A:606:MET:HE2	1:A:613:VAL:HG13	2.01	0.41
1:A:803:ASN:ND2	1:A:813:GLU:OE2	2.53	0.41
2:B:1177:LYS:C	2:B:1179:GLN:H	2.21	0.41
2:B:186:CYS:HB2	2:B:784:ASN:OD1	2.19	0.41
2:B:295:TYR:CD2	2:B:295:TYR:N	2.87	0.41
2:B:401:LEU:HD13	2:B:538:ILE:CD1	2.49	0.41
2:B:596:LEU:HD12	2:B:602:ILE:CG2	2.49	0.41
2:B:632:ILE:HD12	2:B:685:GLY:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:835:GLN:HE21	2:B:835:GLN:HB2	1.62	0.41
2:B:797:TYR:CE1	2:B:854:LEU:HD23	2.53	0.41
2:B:1069:PHE:O	3:C:201:TRP:HH2	2.04	0.41
7:G:14:HIS:ND1	7:G:15:PRO:CD	2.82	0.41
2:B:300:TRP:CH2	9:I:45:ARG:HD3	2.56	0.41
1:M:108:MET:C	1:M:110:CYS:N	2.69	0.41
1:M:1222:PHE:CG	1:M:1226:LEU:HD23	2.55	0.41
1:M:853:TYR:OH	1:M:1444:PHE:CD2	2.70	0.41
1:M:603:ASP:O	1:M:617:VAL:HG23	2.20	0.41
1:M:67:CYS:SG	1:M:67:CYS:O	2.78	0.41
1:M:781:ALA:O	1:M:783:ARG:HG2	2.19	0.41
2:N:1072:MET:HE2	2:N:1087:PHE:HB2	2.01	0.41
1:M:346:VAL:C	2:N:1128:LEU:O	2.51	0.41
2:N:889:THR:C	2:N:910:ILE:HG22	2.29	0.41
2:N:912:ILE:CG2	2:N:913:GLY:N	2.83	0.41
1:M:496:GLU:CB	6:R:99:LEU:CB	2.88	0.41
1:A:467:SER:O	2:B:1099:VAL:HG11	2.20	0.41
2:B:1104:HIS:HB2	2:B:1122:ARG:HD2	2.02	0.41
1:A:1431:VAL:HG13	2:B:1151:LEU:CD2	2.50	0.41
2:B:285:PRO:HD2	2:B:288:GLU:OE1	2.19	0.41
2:B:316:ILE:HG12	2:B:321:VAL:HG11	2.01	0.41
3:C:68:LEU:N	3:C:68:LEU:HD12	2.34	0.41
5:E:136:GLU:O	5:E:138:ASP:N	2.53	0.41
5:E:142:ASN:O	5:E:145:HIS:HB2	2.20	0.41
6:F:74:ILE:HD12	6:F:143:TYR:O	2.19	0.41
8:H:137:ASP:O	8:H:138:ASN:C	2.59	0.41
9:I:58:ILE:O	9:I:58:ILE:HG23	2.20	0.41
10:J:35:LEU:HD22	10:J:40:LEU:HD12	2.02	0.41
11:K:49:GLU:OE1	11:K:97:LYS:HE3	2.20	0.41
1:M:897:ARG:O	1:M:1031:ARG:HB3	2.20	0.41
1:M:91:PHE:HB2	1:M:298:GLN:HE22	1.85	0.41
1:M:471:LEU:HD12	1:M:471:LEU:O	2.19	0.41
1:M:75:ALA:O	1:M:76:GLU:CB	2.67	0.41
2:N:1099:VAL:C	2:N:1101:ASP:H	2.24	0.41
2:N:758:PHE:HB2	2:N:1024:ALA:CB	2.40	0.41
2:N:763:GLN:HG2	2:N:765:PRO:HD2	2.03	0.41
3:O:220:ASP:C	3:O:220:ASP:OD1	2.58	0.41
3:O:236:GLY:O	3:O:237:SER:C	2.58	0.41
4:P:35:ALA:O	4:P:37:LYS:N	2.53	0.41
5:Q:142:ASN:O	5:Q:145:HIS:HB2	2.19	0.41
5:Q:27:TYR:C	5:Q:64:THR:HG23	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:81:THR:HB	6:R:136:ARG:NH1	2.35	0.41
7:S:13:LEU:CD2	7:S:17:TYR:HB2	2.45	0.41
1:M:568:LYS:HD3	8:T:94:TYR:HA	2.02	0.41
1:A:640:PRO:CG	1:A:641:LYS:N	2.84	0.41
2:B:1197:PRO:HG2	2:B:1200:ALA:HB3	2.02	0.41
2:B:229:ALA:O	2:B:247:ILE:CG2	2.69	0.41
2:B:242:ILE:HG22	2:B:242:ILE:O	2.21	0.41
2:B:514:LEU:HD13	2:B:626:VAL:HB	2.02	0.41
3:C:80:LYS:O	3:C:94:CYS:HB2	2.21	0.41
5:E:116:THR:HA	5:E:117:PRO:HD3	1.94	0.41
7:G:154:VAL:HB	7:G:155:ASN:H	1.56	0.41
8:H:101:TYR:N	8:H:101:TYR:CD2	2.88	0.41
9:I:4:PHE:CD1	9:I:4:PHE:C	2.94	0.41
1:M:1352:TYR:CD2	1:M:1353:LYS:N	2.88	0.41
1:M:317:GLN:O	1:M:318:LYS:C	2.59	0.41
1:M:408:ARG:HG2	1:M:431:TRP:CZ2	2.56	0.41
1:M:761:GLN:HG2	1:M:766:VAL:O	2.19	0.41
1:M:90:VAL:HG12	1:M:91:PHE:H	1.85	0.41
2:N:401:LEU:C	2:N:404:PRO:HD2	2.41	0.41
2:N:396:LYS:HG3	2:N:693:GLU:OE1	2.20	0.41
7:S:43:GLY:HA3	7:S:80:LYS:HB3	2.02	0.41
10:V:21:TYR:C	10:V:23:ARG:H	2.23	0.41
10:V:25:LEU:HD23	10:V:30:GLN:O	2.20	0.41
1:A:1104:LYS:O	1:A:1105:GLU:C	2.59	0.41
1:A:119:ASN:O	1:A:122:MET:HB3	2.21	0.41
1:A:348:PHE:CE2	1:A:494:GLN:OE1	2.74	0.41
1:A:589:LEU:O	1:A:607:LEU:HD12	2.20	0.41
1:A:772:GLU:N	1:A:823:GLU:OE2	2.42	0.41
1:A:338:ARG:NH2	1:A:840:ARG:NH1	2.67	0.41
2:B:1031:LEU:HD11	2:B:1042:GLY:CA	2.50	0.41
2:B:159:GLY:H	2:B:443:SER:CB	2.33	0.41
2:B:370:PHE:O	2:B:372:GLY:N	2.53	0.41
1:A:783:ARG:NH2	2:B:696:GLU:O	2.47	0.41
6:F:100:GLN:O	6:F:105:ALA:HB2	2.21	0.41
7:G:49:LEU:O	7:G:50:ASP:C	2.58	0.41
10:J:25:LEU:HD23	10:J:30:GLN:O	2.21	0.41
11:K:48:GLU:O	11:K:50:LEU:N	2.54	0.41
11:K:76:GLN:HE21	11:K:76:GLN:HB3	1.53	0.41
1:M:111:GLY:O	1:M:215:ILE:HA	2.20	0.41
1:M:1265:ARG:O	1:M:1269:HIS:CG	2.74	0.41
1:M:54:ASN:HB3	1:M:248:ARG:HH12	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:467:SER:O	2:N:1099:VAL:HG11	2.20	0.41
2:N:975:GLN:HB3	2:N:975:GLN:HE21	1.59	0.41
4:P:41:HIS:HB2	7:S:73:LYS:HZ1	1.81	0.41
5:Q:134:PHE:CB	5:Q:139:LEU:HD11	2.42	0.41
5:Q:84:GLU:OE2	5:Q:91:THR:HG21	2.19	0.41
7:S:40:GLY:HA2	7:S:157:ILE:HD11	2.02	0.41
10:V:12:LYS:O	10:V:14:VAL:HG23	2.20	0.41
3:O:146:LYS:HB2	10:V:56:ILE:HD11	2.02	0.41
1:A:1122:LEU:HD12	1:A:1122:LEU:N	2.35	0.41
1:A:122:MET:O	1:A:123:ALA:C	2.59	0.41
1:A:1447:MET:HB2	1:A:1447:MET:HE3	1.78	0.41
1:A:284:GLY:O	1:A:286:PRO:CD	2.65	0.41
1:A:408:ARG:HG2	1:A:431:TRP:CZ2	2.56	0.41
1:A:606:MET:CE	1:A:613:VAL:HG13	2.50	0.41
2:B:78:ARG:CG	2:B:120:GLU:HB2	2.50	0.41
2:B:374:MET:C	2:B:376:ASN:N	2.72	0.41
2:B:834:ASN:CA	2:B:838:SER:O	2.67	0.41
2:B:843:GLN:O	2:B:846:ILE:HB	2.19	0.41
2:B:792:MET:HE2	2:B:857:ARG:HH21	1.86	0.41
2:B:956:THR:HG22	2:B:957:ASN:H	1.86	0.41
4:D:148:LEU:HA	4:D:148:LEU:HD23	1.87	0.41
5:E:189:LEU:C	5:E:190:LYS:HG3	2.40	0.41
6:F:73:ALA:O	6:F:74:ILE:HG13	2.21	0.41
9:I:25:LEU:HB3	9:I:38:ALA:HB2	2.02	0.41
1:M:1143:THR:OG1	1:M:1207:LYS:HD3	2.20	0.41
1:M:323:VAL:O	1:M:323:VAL:HG12	2.20	0.41
1:M:599:LEU:O	1:M:600:SER:C	2.58	0.41
1:M:69:THR:O	1:M:69:THR:HG22	2.21	0.41
1:M:916:TYR:O	1:M:920:ILE:HB	2.20	0.41
2:N:1104:HIS:HB2	2:N:1122:ARG:HD2	2.02	0.41
2:N:1106:ARG:CG	2:N:1107:ALA:N	2.83	0.41
2:N:166:ARG:CG	2:N:166:ARG:NH1	2.84	0.41
2:N:374:MET:C	2:N:376:ASN:N	2.73	0.41
2:N:514:LEU:HD13	2:N:626:VAL:HB	2.02	0.41
2:N:586:PRO:O	2:N:589:LEU:N	2.53	0.41
3:O:7:VAL:HG12	3:O:8:ASN:N	2.36	0.41
4:P:34:PHE:CE2	7:S:80:LYS:NZ	2.78	0.41
5:Q:107:GLY:C	5:Q:108:ILE:HG13	2.41	0.41
5:Q:11:LEU:HD12	5:Q:11:LEU:O	2.21	0.41
5:Q:156:SER:O	5:Q:158:GLY:N	2.54	0.41
10:V:35:LEU:HD11	10:V:50:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:52:HIS:C	10:V:52:HIS:CD2	2.94	0.41
11:W:85:GLN:O	11:W:88:GLU:HB2	2.21	0.41
1:A:1265:ARG:O	1:A:1269:HIS:CG	2.74	0.41
1:A:54:ASN:HB3	1:A:248:ARG:HH12	1.86	0.41
2:B:1066:SER:O	2:B:1067:ARG:HD3	2.20	0.41
2:B:296:ASP:O	2:B:298:ASN:N	2.54	0.41
2:B:401:LEU:C	2:B:404:PRO:HD2	2.41	0.41
2:B:742:GLU:O	2:B:743:ILE:C	2.59	0.41
2:B:87:PRO:HG3	2:B:163:ILE:HD12	2.02	0.41
2:B:954:LEU:O	12:L:57:VAL:O	2.37	0.41
3:C:32:LEU:CD1	3:C:36:MET:HE2	2.50	0.41
3:C:4:GLU:CB	3:C:5:PRO:HD3	2.44	0.41
6:F:123:LYS:C	6:F:125:LEU:N	2.74	0.41
8:H:5:LEU:N	8:H:60:ALA:HB2	2.35	0.41
9:I:90:GLN:HE21	9:I:92:ARG:HD3	1.85	0.41
1:M:838:ILE:HD11	1:M:1104:LYS:HG3	2.02	0.41
1:M:34:LYS:CD	1:M:34:LYS:N	2.83	0.41
1:M:497:GLU:O	1:M:498:THR:C	2.59	0.41
1:M:606:MET:CE	1:M:613:VAL:HG13	2.50	0.41
1:M:640:PRO:CG	1:M:641:LYS:N	2.84	0.41
1:M:688:LYS:O	1:M:691:VAL:HB	2.21	0.41
1:M:957:PRO:HG2	1:M:957:PRO:O	2.21	0.41
2:N:1100:ASP:OD2	11:W:1:MET:HB3	2.21	0.41
2:N:300:TRP:CH2	9:U:45:ARG:HD3	2.56	0.41
2:N:370:PHE:O	2:N:372:GLY:N	2.54	0.41
2:N:880:ALA:CB	2:N:934:LYS:HD2	2.51	0.41
2:N:863:GLU:OE1	2:N:962:LYS:HB2	2.21	0.41
2:N:1217:TYR:CE2	4:P:13:ARG:C	2.94	0.41
6:R:100:GLN:O	6:R:105:ALA:HB2	2.21	0.41
6:R:125:LEU:HA	6:R:130:ILE:HD11	2.02	0.41
8:T:103:PHE:CE2	8:T:135:LYS:HG2	2.56	0.41
8:T:62:SER:O	8:T:63:LEU:O	2.39	0.41
1:A:1078:ALA:HA	1:A:1081:MET:CE	2.50	0.41
1:A:1282:ILE:HD11	1:A:1319:VAL:CG2	2.50	0.41
1:A:1352:TYR:C	1:A:1352:TYR:CD2	2.94	0.41
1:A:384:TYR:HB3	6:F:115:THR:CG2	2.48	0.41
1:A:344:LYS:HE3	2:B:1151:LEU:HB3	2.02	0.41
5:E:11:LEU:HD12	5:E:11:LEU:O	2.21	0.41
5:E:181:ASP:HB3	5:E:184:ALA:HB2	2.03	0.41
1:A:568:LYS:HD3	8:H:94:TYR:HA	2.02	0.41
10:J:18:TRP:HZ3	10:J:49:VAL:HG13	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:50:CYS:O	12:L:52:GLU:N	2.42	0.41
1:M:1033:ILE:CG1	1:M:1034:LEU:HG	2.51	0.41
1:M:119:ASN:O	1:M:122:MET:HB3	2.21	0.41
1:M:284:GLY:O	1:M:286:PRO:CD	2.65	0.41
1:M:322:PRO:O	1:M:323:VAL:CB	2.62	0.41
1:M:41:MET:H	1:M:41:MET:HE2	1.86	0.41
1:M:589:LEU:O	1:M:607:LEU:HD12	2.20	0.41
1:M:669:ASP:OD1	1:M:742:ASN:ND2	2.54	0.41
2:N:393:HIS:NE2	2:N:696:GLU:CG	2.81	0.41
2:N:936:ASP:OD1	2:N:936:ASP:C	2.58	0.41
8:T:62:SER:OG	8:T:63:LEU:N	2.53	0.41
10:V:21:TYR:C	10:V:23:ARG:N	2.74	0.41
1:A:263:LEU:HD22	1:A:304:TYR:CE1	2.56	0.41
1:A:600:SER:HA	1:A:601:PRO:HD2	1.91	0.41
1:A:742:ASN:C	1:A:742:ASN:ND2	2.74	0.41
1:A:669:ASP:OD1	1:A:742:ASN:ND2	2.54	0.41
1:A:756:PHE:O	1:A:757:ILE:C	2.58	0.41
1:A:916:TYR:O	1:A:920:ILE:HB	2.20	0.41
2:B:463:LYS:HB3	2:B:464:LYS:H	1.77	0.41
5:E:162:GLN:O	5:E:163:LEU:C	2.60	0.41
9:I:33:ASP:O	9:I:34:TYR:C	2.59	0.41
10:J:21:TYR:C	10:J:23:ARG:N	2.74	0.41
1:M:1063:GLY:O	1:M:1064:GLU:C	2.59	0.41
1:M:1078:ALA:HA	1:M:1081:MET:CE	2.50	0.41
1:M:1166:GLU:CG	1:M:1167:GLU:H	2.34	0.41
1:M:42:ASP:C	1:M:44:SER:H	2.25	0.41
1:M:366:GLY:HA2	1:M:462:LYS:O	2.21	0.41
1:M:475:VAL:HG13	1:M:475:VAL:O	2.20	0.41
2:N:1066:SER:O	2:N:1067:ARG:HD3	2.20	0.41
1:M:1441:THR:HB	2:N:1144:ALA:HB2	2.02	0.41
2:N:614:GLU:O	2:N:615:ARG:HB2	2.21	0.41
1:M:811:PRO:HG2	2:N:702:MET:HG2	2.02	0.41
2:N:944:THR:HG21	2:N:1122:ARG:CZ	2.51	0.41
5:Q:185:ARG:O	5:Q:188:GLY:N	2.44	0.41
8:T:101:TYR:N	8:T:101:TYR:CD2	2.88	0.41
10:V:18:TRP:HZ3	10:V:49:VAL:HG13	1.85	0.41
2:N:177:GLU:HG2	10:V:61:ARG:HH22	1.85	0.41
11:W:49:GLU:OE1	11:W:97:LYS:HE3	2.20	0.41
1:A:1107:LEU:HB3	1:A:1387:ILE:HG21	2.00	0.41
1:A:1166:GLU:CG	1:A:1167:GLU:H	2.34	0.41
1:A:1215:ALA:HA	1:A:1218:ILE:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1099:VAL:C	2:B:1101:ASP:H	2.24	0.41
2:B:512:TRP:C	2:B:512:TRP:CD1	2.94	0.41
2:B:540:ILE:CG1	2:B:605:GLU:CD	2.84	0.41
2:B:745:PRO:C	2:B:747:MET:N	2.75	0.41
2:B:975:GLN:HB3	2:B:975:GLN:HE21	1.59	0.41
3:C:7:VAL:HG12	3:C:8:ASN:N	2.36	0.41
5:E:153:ILE:HG22	5:E:154:ARG:O	2.20	0.41
5:E:27:TYR:C	5:E:64:THR:HG23	2.41	0.41
7:G:43:GLY:HA3	7:G:80:LYS:HB3	2.02	0.41
8:H:62:SER:O	8:H:63:LEU:O	2.39	0.41
10:J:35:LEU:HD11	10:J:50:LEU:HB2	2.02	0.41
1:M:1104:LYS:O	1:M:1105:GLU:C	2.59	0.41
1:M:1348:ARG:HG3	1:M:1375:VAL:HG12	2.03	0.41
1:M:23:SER:HA	1:M:234:TRP:CD1	2.56	0.41
1:M:263:LEU:HD22	1:M:304:TYR:CE1	2.56	0.41
1:M:344:LYS:HE3	2:N:1151:LEU:HB3	2.02	0.41
1:M:351:ARG:HA	1:M:488:MET:O	2.21	0.41
1:M:589:LEU:O	1:M:607:LEU:HA	2.21	0.41
1:M:882:GLN:NE2	1:M:960:VAL:O	2.54	0.41
2:N:1166:CYS:O	2:N:1166:CYS:SG	2.78	0.41
2:N:288:GLU:HA	2:N:291:GLN:CG	2.51	0.41
2:N:370:PHE:HD2	2:N:374:MET:HE3	1.86	0.41
2:N:387:ASP:OD1	9:U:91:ARG:HD2	2.20	0.41
2:N:466:MET:O	2:N:468:SER:N	2.40	0.41
2:N:608:ILE:O	2:N:694:GLU:HG3	2.21	0.41
2:N:700:ILE:HG21	2:N:742:GLU:OE1	2.21	0.41
3:O:186:LEU:N	3:O:186:LEU:CD1	2.84	0.41
3:O:80:LYS:O	3:O:94:CYS:HB2	2.21	0.41
4:P:47:ASP:C	4:P:48:LEU:O	2.59	0.41
6:R:99:LEU:HD11	7:S:65:SER:O	2.21	0.41
7:S:160:ILE:CG2	7:S:161:GLY:N	2.81	0.41
1:M:568:LYS:NZ	8:T:94:TYR:CE1	2.88	0.41
9:U:4:PHE:CD1	9:U:4:PHE:C	2.94	0.41
1:A:1335:PHE:CD2	1:A:1336:VAL:N	2.89	0.41
1:A:1335:PHE:HD2	1:A:1335:PHE:H	1.68	0.41
2:B:825:VAL:O	2:B:1087:PHE:HD2	2.04	0.41
1:A:351:ARG:HB3	2:B:1128:LEU:HD21	2.02	0.41
1:A:344:LYS:HE3	2:B:1151:LEU:CB	2.50	0.41
2:B:324:ASP:O	2:B:326:ILE:HB	2.21	0.41
2:B:479:TYR:CZ	2:B:1096:ARG:NH2	2.85	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:878:THR:O	2:B:879:ARG:O	2.39	0.41
4:D:179:ASN:HA	4:D:182:GLU:OE2	2.21	0.41
9:I:55:THR:O	9:I:55:THR:HG22	2.21	0.41
1:M:1120:VAL:O	1:M:1120:VAL:HG23	2.21	0.41
1:M:890:SER:HA	1:M:1300:GLU:N	2.36	0.41
1:M:1326:ASP:C	1:M:1328:SER:N	2.73	0.41
1:M:1389:ARG:CA	1:M:1405:PHE:HE2	2.28	0.41
1:M:1450:GLU:HG3	7:S:22:MET:SD	2.61	0.41
1:M:37:TYR:HB2	1:M:52:GLY:CA	2.43	0.41
1:M:346:VAL:HG22	1:M:491:HIS:HE1	1.86	0.41
1:M:630:LEU:CA	1:M:633:THR:CG2	2.97	0.41
2:N:111:TYR:CE2	2:N:170:CYS:SG	3.08	0.41
2:N:1168:LEU:HD13	2:N:1208:MET:HE3	2.02	0.41
2:N:1167:GLY:O	2:N:1215:ARG:HA	2.21	0.41
2:N:512:TRP:CD1	2:N:512:TRP:C	2.94	0.41
2:N:586:PRO:HG2	2:N:610:ARG:CZ	2.50	0.41
2:N:637:GLU:C	2:N:639:LYS:N	2.73	0.41
2:N:842:ASN:OD1	2:N:844:SER:HB2	2.21	0.41
3:O:57:LEU:HD22	3:O:57:LEU:N	2.35	0.41
4:P:57:ARG:HA	4:P:109:LEU:HD13	2.02	0.41
1:M:864:ILE:CG2	5:Q:175:PRO:HD3	2.34	0.41
6:R:154:ASP:HB3	6:R:155:ASN:H	1.73	0.41
7:S:1:MET:HE2	7:S:3:PHE:CE1	2.46	0.41
8:T:40:LEU:HD12	8:T:41:ASP:H	1.86	0.41
1:A:1033:ILE:CG1	1:A:1034:LEU:HG	2.51	0.40
1:A:1143:THR:OG1	1:A:1207:LYS:HD3	2.20	0.40
1:A:1159:ASP:HA	1:A:1160:PRO:HD2	1.98	0.40
1:A:1263:LEU:CG	1:A:1263:LEU:O	2.68	0.40
1:A:890:SER:HA	1:A:1300:GLU:N	2.36	0.40
1:A:630:LEU:C	1:A:633:THR:CG2	2.90	0.40
1:A:858:ARG:CZ	6:F:139:PRO:CG	2.99	0.40
1:A:882:GLN:NE2	1:A:960:VAL:O	2.54	0.40
1:A:957:PRO:HG2	1:A:957:PRO:O	2.21	0.40
2:B:1096:ARG:HH11	2:B:1096:ARG:CG	2.35	0.40
2:B:183:MET:C	2:B:185:GLU:H	2.25	0.40
2:B:221:ALA:N	2:B:222:PRO:CD	2.84	0.40
2:B:584:ARG:O	2:B:586:PRO:HD3	2.21	0.40
2:B:598:ARG:NH1	2:B:632:ILE:HG21	2.36	0.40
2:B:609:ILE:CD1	2:B:609:ILE:N	2.77	0.40
2:B:575:VAL:CG2	2:B:619:ILE:HG21	2.45	0.40
2:B:899:ILE:CD1	2:B:911:ILE:HG23	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:880:ALA:CB	2:B:934:LYS:HD2	2.51	0.40
3:C:57:LEU:N	3:C:57:LEU:HD22	2.36	0.40
4:D:31:GLY:H	7:G:82:PHE:HE2	1.69	0.40
5:E:41:PHE:O	5:E:42:ARG:C	2.59	0.40
5:E:62:ASN:HB3	5:E:63:PRO:CD	2.51	0.40
7:G:129:ALA:HB2	7:G:138:THR:OG1	2.19	0.40
8:H:13:GLN:CG	8:H:27:ILE:O	2.69	0.40
1:A:1154:ILE:O	9:I:43:VAL:HB	2.21	0.40
9:I:90:GLN:HE21	9:I:92:ARG:CD	2.34	0.40
2:B:177:GLU:HG2	10:J:61:ARG:HH22	1.85	0.40
1:M:348:PHE:CE2	1:M:494:GLN:OE1	2.74	0.40
1:M:48:PRO:O	1:M:49:ARG:CG	2.70	0.40
1:M:53:LEU:O	1:M:54:ASN:O	2.39	0.40
1:M:598:LEU:HD12	1:M:598:LEU:H	1.85	0.40
1:M:742:ASN:ND2	1:M:742:ASN:C	2.74	0.40
2:N:1000:PRO:O	2:N:1007:VAL:HG23	2.21	0.40
2:N:1096:ARG:CG	2:N:1096:ARG:HH11	2.34	0.40
1:M:1431:VAL:HG13	2:N:1151:LEU:CD2	2.50	0.40
2:N:228:VAL:HG12	2:N:229:ALA:N	2.37	0.40
2:N:229:ALA:O	2:N:247:ILE:CG2	2.69	0.40
2:N:159:GLY:H	2:N:443:SER:CB	2.33	0.40
2:N:479:TYR:CZ	2:N:1096:ARG:NH2	2.85	0.40
2:N:598:ARG:NH1	2:N:632:ILE:HG21	2.36	0.40
2:N:999:MET:HG3	2:N:1000:PRO:CD	2.30	0.40
4:P:54:SER:HB3	4:P:113:ALA:CB	2.50	0.40
5:Q:62:ASN:HB3	5:Q:63:PRO:CD	2.51	0.40
5:Q:60:LEU:HB2	5:Q:78:TRP:CE3	2.56	0.40
6:R:96:THR:O	6:R:100:GLN:CG	2.69	0.40
8:T:13:GLN:CG	8:T:27:ILE:O	2.69	0.40
9:U:90:GLN:HE21	9:U:92:ARG:CD	2.34	0.40
9:U:95:THR:CG2	9:U:96:ASN:H	2.25	0.40
10:V:35:LEU:HD22	10:V:40:LEU:HD12	2.02	0.40
1:A:1063:GLY:O	1:A:1064:GLU:C	2.59	0.40
1:A:1348:ARG:HG3	1:A:1375:VAL:HG12	2.03	0.40
1:A:366:GLY:HA2	1:A:462:LYS:O	2.21	0.40
2:B:216:VAL:HG22	2:B:389:ASP:OD2	2.21	0.40
2:B:614:GLU:O	2:B:615:ARG:HB2	2.21	0.40
2:B:799:PRO:CB	2:B:818:PRO:HG2	2.49	0.40
2:B:842:ASN:OD1	2:B:844:SER:HB2	2.21	0.40
2:B:91:GLU:OE1	12:L:56:ARG:NH2	2.54	0.40
3:C:148:ARG:HG2	3:C:149:ASN:H	1.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:186:LEU:N	3:C:186:LEU:CD1	2.84	0.40
5:E:156:SER:O	5:E:158:GLY:N	2.54	0.40
9:I:103:CYS:C	9:I:105:ASN:H	2.25	0.40
3:C:252:GLN:HG3	11:K:95:ILE:HG23	2.02	0.40
1:M:1218:ILE:H	1:M:1218:ILE:HG13	1.70	0.40
1:M:1371:MET:H	1:M:1371:MET:HE2	1.83	0.40
1:M:95:PHE:CE2	1:M:1413:PHE:HB3	2.50	0.40
1:M:102:VAL:HG11	1:M:212:PHE:CZ	2.57	0.40
1:M:54:ASN:HD22	1:M:248:ARG:HH12	1.69	0.40
1:M:801:VAL:CG1	1:M:809:LEU:CG	2.99	0.40
2:N:825:VAL:O	2:N:1087:PHE:HD2	2.04	0.40
2:N:163:ILE:HD13	2:N:169:PHE:HB2	2.04	0.40
2:N:324:ASP:O	2:N:326:ILE:HB	2.21	0.40
2:N:956:THR:HG22	2:N:957:ASN:H	1.86	0.40
3:O:115:SER:HG	3:O:142:ILE:CG1	2.34	0.40
4:P:179:ASN:HA	4:P:182:GLU:OE2	2.21	0.40
5:Q:153:ILE:O	5:Q:195:VAL:HA	2.22	0.40
9:U:25:LEU:HB3	9:U:38:ALA:HB2	2.03	0.40
1:A:1018:SER:O	1:A:1019:LEU:C	2.60	0.40
1:A:102:VAL:HG11	1:A:212:PHE:CZ	2.56	0.40
1:A:1387:ILE:HG23	1:A:1387:ILE:O	2.21	0.40
1:A:1437:ALA:HA	1:A:1438:PRO:HD3	1.96	0.40
1:A:400:HIS:CB	1:A:401:PRO:CD	2.99	0.40
1:A:599:LEU:O	1:A:600:SER:C	2.58	0.40
1:A:91:PHE:HB2	1:A:298:GLN:HE22	1.85	0.40
2:B:1021:MET:O	2:B:1023:VAL:N	2.55	0.40
2:B:1152:MET:HE3	2:B:1157:ALA:HA	2.03	0.40
2:B:586:PRO:O	2:B:589:LEU:N	2.53	0.40
4:D:176:ASP:C	4:D:178:LEU:N	2.75	0.40
4:D:48:LEU:CD1	4:D:49:ILE:N	2.81	0.40
5:E:146:HIS:HD2	5:E:148:LEU:H	1.68	0.40
5:E:153:ILE:O	5:E:195:VAL:HA	2.21	0.40
5:E:210:TYR:N	5:E:210:TYR:CD1	2.90	0.40
5:E:60:LEU:HB2	5:E:78:TRP:CE3	2.56	0.40
8:H:40:LEU:HD12	8:H:41:ASP:H	1.86	0.40
9:I:14:LEU:HA	9:I:14:LEU:HD22	1.88	0.40
10:J:8:PHE:N	10:J:48:MET:HE1	2.37	0.40
2:B:1100:ASP:OD2	11:K:1:MET:HB3	2.22	0.40
11:K:85:GLN:O	11:K:88:GLU:HB2	2.21	0.40
12:L:52:GLU:HB3	12:L:53:CYS:H	1.68	0.40
12:L:57:VAL:HG23	12:L:58:ILE:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:M:415:ASP:O	1:M:417:ARG:N	2.55	0.40
1:M:443:VAL:HB	1:M:490:LEU:HD11	2.02	0.40
1:M:551:LEU:CD1	1:M:561:VAL:HG12	2.51	0.40
1:M:345:ARG:CB	2:N:1129:ARG:CA	2.96	0.40
2:N:1197:PRO:HG2	2:N:1200:ALA:HB3	2.02	0.40
2:N:316:ILE:HD13	2:N:321:VAL:HG12	2.03	0.40
2:N:792:MET:HE2	2:N:857:ARG:HH21	1.86	0.40
2:N:831:SER:HB2	2:N:833:TYR:CD1	2.55	0.40
5:Q:150:PRO:CB	5:Q:199:ARG:HB3	2.51	0.40
6:R:107:VAL:HG12	6:R:108:LEU:N	2.35	0.40
9:U:103:CYS:C	9:U:105:ASN:H	2.25	0.40
1:A:1103:LEU:HD11	1:A:1107:LEU:HD11	2.03	0.40
1:A:443:VAL:HB	1:A:490:LEU:HD11	2.02	0.40
1:A:351:ARG:HA	1:A:488:MET:O	2.21	0.40
1:A:48:PRO:O	1:A:49:ARG:CG	2.70	0.40
1:A:915:GLU:HB2	1:A:981:SER:O	2.21	0.40
2:B:1000:PRO:O	2:B:1007:VAL:HG23	2.21	0.40
2:B:589:LEU:O	2:B:589:LEU:HD12	2.21	0.40
2:B:630:LEU:CD2	2:B:742:GLU:HA	2.49	0.40
2:B:797:TYR:C	2:B:798:TYR:CD2	2.78	0.40
2:B:945:GLU:O	2:B:946:ASN:CB	2.68	0.40
3:C:100:LEU:HA	3:C:100:LEU:HD12	1.87	0.40
3:C:132:PRO:O	3:C:133:VAL:C	2.60	0.40
3:C:212:PRO:CB	3:C:213:PRO:HD2	2.52	0.40
4:D:140:PHE:CZ	7:G:85:GLU:HG3	2.41	0.40
1:A:1154:ILE:HD11	9:I:44:TYR:CD2	2.57	0.40
2:B:1006:ILE:HG22	10:J:44:CYS:HB3	2.03	0.40
3:C:146:LYS:HB2	10:J:60:LEU:HD11	2.04	0.40
11:K:43:ALA:O	11:K:45:LEU:N	2.54	0.40
1:M:1064:GLU:HA	1:M:1064:GLU:OE2	2.22	0.40
1:M:1163:THR:CG2	1:M:1164:VAL:H	2.34	0.40
1:M:1107:LEU:O	1:M:1387:ILE:HG22	2.21	0.40
1:M:214:HIS:O	1:M:215:ILE:C	2.60	0.40
1:M:915:GLU:HB2	1:M:981:SER:O	2.21	0.40
2:N:216:VAL:HG22	2:N:389:ASP:OD2	2.21	0.40
2:N:401:LEU:HA	2:N:401:LEU:HD12	1.90	0.40
2:N:589:LEU:O	2:N:589:LEU:HD12	2.21	0.40
2:N:835:GLN:HE21	2:N:835:GLN:HB2	1.62	0.40
2:N:871:VAL:CG1	2:N:872:GLU:N	2.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:153:ILE:H	5:Q:195:VAL:HG13	1.86	0.40
6:R:111:ILE:C	6:R:113:GLY:N	2.75	0.40
6:R:111:ILE:O	6:R:113:GLY:N	2.47	0.40
4:P:49:ILE:CG2	7:S:4:LEU:HB2	2.42	0.40
1:M:568:LYS:HZ1	8:T:43:ASN:HB3	1.86	0.40
12:X:57:VAL:HG23	12:X:58:ILE:N	2.36	0.40
1:A:1352:TYR:HA	1:A:1355:ILE:CG2	2.51	0.40
1:A:1367:ASN:O	1:A:1368:TYR:C	2.59	0.40
1:A:23:SER:HA	1:A:234:TRP:CD1	2.56	0.40
1:A:42:ASP:C	1:A:44:SER:H	2.25	0.40
1:A:52:GLY:O	1:A:56:PRO:HG2	2.22	0.40
1:A:591:ARG:HD3	1:A:605:GLY:CA	2.51	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
2:B:1030:LEU:HD12	2:B:1030:LEU:HA	1.88	0.40
2:B:1167:GLY:O	2:B:1215:ARG:HA	2.21	0.40
2:B:1201:LYS:HE2	2:B:1205:GLN:OE1	2.21	0.40
2:B:409:LEU:HD12	2:B:459:TRP:CE2	2.57	0.40
1:A:319:SER:O	2:B:463:LYS:O	2.39	0.40
2:B:882:THR:O	2:B:883:LEU:CB	2.63	0.40
2:B:882:THR:HG22	2:B:884:ARG:HB2	2.03	0.40
2:B:889:THR:HG22	2:B:890:TYR:N	2.37	0.40
5:E:86:SER:O	5:E:87:VAL:C	2.60	0.40
6:F:111:ILE:C	6:F:113:GLY:N	2.75	0.40
6:F:132:LEU:HD23	6:F:132:LEU:HA	1.88	0.40
6:F:81:THR:HB	6:F:136:ARG:NH1	2.36	0.40
6:F:136:ARG:O	6:F:143:TYR:HA	2.22	0.40
7:G:139:LYS:HB2	7:G:140:GLY:H	1.72	0.40
8:H:58:THR:CG2	8:H:59:LEU:N	2.82	0.40
1:M:910:LYS:C	1:M:912:ASP:H	2.25	0.40
2:N:986:GLN:NE2	2:N:1022:THR:HG21	2.37	0.40
2:N:1204:PHE:O	2:N:1205:GLN:C	2.58	0.40
2:N:17:CYS:HB2	2:N:743:ILE:O	2.22	0.40
2:N:183:MET:C	2:N:185:GLU:H	2.25	0.40
2:N:242:ILE:HG22	2:N:242:ILE:O	2.21	0.40
4:P:31:GLY:H	7:S:82:PHE:HE2	1.69	0.40
8:T:137:ASP:O	8:T:138:ASN:C	2.59	0.40
8:T:42:ILE:HG23	8:T:43:ASN:N	2.37	0.40
9:U:40:ASP:CG	9:U:41:PRO:CD	2.88	0.40
11:W:48:GLU:O	11:W:50:LEU:N	2.54	0.40

All (39) 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)
4:D:73:GLY:C	12:L:49:ARG:NH2[2_655]	1.24	0.96
4:D:73:GLY:O	12:L:49:ARG:NH2[2_655]	1.30	0.90
7:S:126:SER:O	9:U:38:ALA:O[1_455]	1.32	0.88
3:C:139:ASP:CB	11:W:113:ASN:C[2_646]	1.49	0.71
11:K:113:ASN:C	3:O:139:ASP:CB[2_646]	1.53	0.67
1:A:1451:LYS:O	12:L:45:SER:OG[2_655]	1.54	0.66
7:S:134:ASP:O	9:U:22:ASN:OD1[1_455]	1.54	0.66
7:S:53:ASN:OD1	12:X:51:LYS:NZ[2_546]	1.55	0.65
7:G:96:PRO:CB	8:H:91:ASP:CB[2_645]	1.61	0.59
7:S:124:SER:CB	8:T:54:SER:OG[2_556]	1.61	0.59
7:G:96:PRO:CG	8:H:91:ASP:CB[2_645]	1.68	0.52
4:P:73:GLY:O	12:X:49:ARG:NH2[2_546]	1.68	0.52
4:D:73:GLY:C	12:L:49:ARG:CZ[2_655]	1.73	0.47
7:G:53:ASN:ND2	12:L:51:LYS:NZ[2_655]	1.78	0.42
7:S:97:ILE:CG1	8:T:91:ASP:OD2[2_556]	1.81	0.39
7:S:53:ASN:CG	12:X:51:LYS:NZ[2_546]	1.82	0.38
4:D:73:GLY:O	12:L:49:ARG:CZ[2_655]	1.84	0.36
7:G:97:ILE:N	8:H:91:ASP:OD2[2_645]	1.86	0.34
4:D:73:GLY:C	12:L:49:ARG:NE[2_655]	1.91	0.29
7:S:53:ASN:OD1	12:X:51:LYS:CE[2_546]	1.92	0.28
7:S:53:ASN:ND2	12:X:51:LYS:NZ[2_546]	1.92	0.28
3:C:139:ASP:O	11:W:113:ASN:C[2_646]	1.93	0.27
3:C:139:ASP:O	11:W:113:ASN:O[2_646]	1.93	0.27
11:K:113:ASN:O	3:O:139:ASP:O[2_646]	1.98	0.22
11:K:113:ASN:O	3:O:139:ASP:CB[2_646]	1.98	0.22
3:C:139:ASP:C	11:W:113:ASN:O[2_646]	1.99	0.21
7:S:126:SER:CB	9:U:39:GLU:CA[1_455]	2.00	0.20
1:A:1451:LYS:O	12:L:45:SER:CB[2_655]	2.05	0.15
7:S:126:SER:O	9:U:38:ALA:C[1_455]	2.05	0.15
7:S:125:ASN:CB	9:U:37:LEU:CG[1_455]	2.06	0.14
3:C:139:ASP:CB	11:W:113:ASN:O[2_646]	2.07	0.13
11:K:113:ASN:C	3:O:139:ASP:O[2_646]	2.09	0.11
7:G:96:PRO:C	8:H:91:ASP:OD2[2_645]	2.09	0.11
11:K:113:ASN:O	3:O:139:ASP:C[2_646]	2.12	0.08
4:P:73:GLY:C	12:X:49:ARG:NH2[2_546]	2.12	0.08
3:C:139:ASP:O	11:W:113:ASN:CB[2_646]	2.13	0.07
7:S:126:SER:C	9:U:38:ALA:O[1_455]	2.15	0.05
1:M:1170:ASP:CG	4:P:81:ASN:CG[1_655]	2.17	0.03
7:S:126:SER:O	9:U:39:GLU:C[1_455]	2.17	0.03

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	1356/1743 (78%)	945 (70%)	279 (21%)	132 (10%)	0 10
1	M	1360/1743 (78%)	947 (70%)	279 (20%)	134 (10%)	0 9
2	B	1043/1227 (85%)	711 (68%)	210 (20%)	122 (12%)	0 6
2	N	1044/1227 (85%)	712 (68%)	210 (20%)	122 (12%)	0 6
3	C	261/304 (86%)	182 (70%)	56 (22%)	23 (9%)	1 11
3	O	261/304 (86%)	184 (70%)	54 (21%)	23 (9%)	1 11
4	D	151/186 (81%)	107 (71%)	26 (17%)	18 (12%)	0 6
4	P	150/186 (81%)	106 (71%)	26 (17%)	18 (12%)	0 6
5	E	212/214 (99%)	148 (70%)	43 (20%)	21 (10%)	0 9
5	Q	212/214 (99%)	148 (70%)	43 (20%)	21 (10%)	0 9
6	F	82/155 (53%)	57 (70%)	15 (18%)	10 (12%)	0 5
6	R	82/155 (53%)	57 (70%)	15 (18%)	10 (12%)	0 5
7	G	169/171 (99%)	129 (76%)	27 (16%)	13 (8%)	1 13
7	S	169/171 (99%)	130 (77%)	26 (15%)	13 (8%)	1 13
8	H	126/145 (87%)	94 (75%)	17 (14%)	15 (12%)	0 6
8	T	126/145 (87%)	94 (75%)	17 (14%)	15 (12%)	0 6
9	I	108/115 (94%)	70 (65%)	25 (23%)	13 (12%)	0 6
9	U	108/115 (94%)	69 (64%)	26 (24%)	13 (12%)	0 6
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	111/118 (94%)	82 (74%)	18 (16%)	11 (10%)	0 9
11	W	111/118 (94%)	82 (74%)	18 (16%)	11 (10%)	0 9
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	7446/9046 (82%)	5160 (69%)	1484 (20%)	802 (11%)	0 8

All (802) 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	197	GLN
1	A	198	PRO
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
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	1284	LYS
1	A	1327	SER
1	A	1441	THR

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	56	ALA
9	I	106	CYS
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

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Mol	Chain	Res	Type
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
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	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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	56	ALA
9	U	106	CYS
9	U	107	LYS
10	V	2	ILE
10	V	41	LYS
10	V	63	ASN
11	W	7	PHE
11	W	43	ALA
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	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	629	GLY
1	A	673	ASP
1	A	700	HIS
1	A	717	GLY

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Mol	Chain	Res	Type
1	A	772	GLU
1	A	847	GLU
1	A	848	ASP
1	A	853	TYR
1	A	974	HIS
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
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	883	LEU
2	B	888	GLY

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Mol	Chain	Res	Type
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
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
10	J	6	ARG
10	J	14	VAL
11	K	14	ASP
11	K	15	ASP
11	K	44	ASN
11	K	49	GLU

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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	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	92	VAL
4	P	142	ILE
4	P	163	LEU
4	P	177	GLU
5	Q	29	ILE

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Mol	Chain	Res	Type
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
8	T	81	PRO
8	T	89	ALA
9	U	11	ASN
9	U	34	TYR
9	U	57	GLY
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	45	ARG
1	A	131	PRO
1	A	264	THR
1	A	337	LEU
1	A	419	HIS
1	A	610	ASP
1	A	667	ILE
1	A	777	ALA
1	A	872	ASP
1	A	886	THR
1	A	988	ILE
1	A	1006	ASN
1	A	1226	LEU
1	A	1368	TYR
1	A	1369	ARG

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Mol	Chain	Res	Type
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
2	B	584	ARG
2	B	603	SER
2	B	842	ASN
2	B	848	ARG
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	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

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Mol	Chain	Res	Type
10	J	28	GLY
10	J	43	TYR
11	K	78	GLU
12	L	45	SER
12	L	51	LYS
1	M	45	ARG
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
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	883	LEU
2	N	951	GLN
2	N	1022	THR
2	N	1108	ARG
2	N	1121	GLY

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Mol	Chain	Res	Type
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
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	65	PHE
1	A	109	ASN
1	A	196	ALA
1	A	318	LYS
1	A	323	VAL
1	A	569	PRO
1	A	1017	THR
1	A	1064	GLU
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
1	A	1414	GLU

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Mol	Chain	Res	Type
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
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	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	1073	SER
1	M	1116	PRO
1	M	1169	PHE
1	M	1283	SER
1	M	1338	ILE
1	M	1381	ARG
1	M	1406	GLU

Continued on next page...

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Mol	Chain	Res	Type
1	M	1414	GLU
2	N	101	PRO
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	37	SER
5	Q	58	SER
5	Q	202	GLU
6	R	150	GLU
7	S	17	TYR
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	601	PRO
1	A	651	GLN
1	A	652	LYS
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	1206	ASP
1	A	1401	MET
2	B	15	GLU
2	B	32	SER
2	B	175	LEU
2	B	254	ASP

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Mol	Chain	Res	Type
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
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	311	GLY
1	M	601	PRO
1	M	651	GLN
1	M	652	LYS
1	M	707	PRO
1	M	753	LYS
1	M	860	SER
1	M	960	VAL
1	M	981	SER
1	M	1064	GLU
1	M	1206	ASP
1	M	1401	MET
2	N	15	GLU
2	N	32	SER
2	N	175	LEU
2	N	181	TYR
2	N	254	ASP
2	N	429	ILE
2	N	462	GLN
2	N	587	SER
2	N	1065	GLN

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Mol	Chain	Res	Type
2	N	1183	ARG
2	N	1188	LYS
3	O	33	ARG
3	O	129	VAL
3	O	169	LYS
3	O	214	LYS
3	O	227	ARG
5	Q	55	LYS
5	Q	85	PRO
5	Q	191	ARG
6	R	106	PRO
6	R	151	LEU
7	S	128	PRO
8	T	12	VAL
8	T	94	TYR
9	U	33	ASP
1	A	311	GLY
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	95	GLY
4	D	183	ASP
5	E	39	GLU
9	I	8	LEU
1	M	739	LYS
1	M	1013	GLN
2	N	118	ASP
2	N	296	ASP
3	O	59	ASP
3	O	142	ILE
4	P	95	GLY
4	P	183	ASP
5	Q	39	GLU
8	T	118	GLY
9	U	8	LEU
2	B	282	GLY
2	B	1017	ILE
4	D	8	VAL
4	D	161	PRO

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Mol	Chain	Res	Type
6	F	109	VAL
6	F	111	ILE
9	I	75	CYS
2	N	282	GLY
2	N	1017	ILE
4	P	8	VAL
4	P	161	PRO
6	R	109	VAL
6	R	111	ILE
9	U	75	CYS
1	A	520	PRO
1	A	757	ILE
2	B	1099	VAL
10	J	56	ILE
1	M	520	PRO
1	M	757	ILE
6	R	105	ALA
10	V	56	ILE
1	A	245	PRO
1	A	1244	VAL
2	B	992	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
1	M	1077	PRO
2	N	457	GLY
2	N	543	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

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Mol	Chain	Res	Type
1	M	378	PRO
2	N	307	LYS
2	N	590	VAL
2	N	629	PRO

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	970/1528 (64%)	876 (90%)	94 (10%)	8	27
1	M	973/1528 (64%)	879 (90%)	94 (10%)	8	27
2	B	815/1077 (76%)	732 (90%)	83 (10%)	7	25
2	N	818/1077 (76%)	735 (90%)	83 (10%)	7	25
3	C	154/264 (58%)	133 (86%)	21 (14%)	3	17
3	O	157/264 (60%)	135 (86%)	22 (14%)	3	17
4	D	79/160 (49%)	68 (86%)	11 (14%)	3	17
4	P	80/160 (50%)	68 (85%)	12 (15%)	3	15
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	103/148 (70%)	94 (91%)	9 (9%)	10	31
8	H	90/130 (69%)	83 (92%)	7 (8%)	12	36
8	T	89/130 (68%)	82 (92%)	7 (8%)	12	35
9	I	80/109 (73%)	69 (86%)	11 (14%)	3	17
9	U	80/109 (73%)	69 (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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
11	K	68/109 (62%)	56 (82%)	12 (18%)	2 11
11	W	68/109 (62%)	56 (82%)	12 (18%)	2 11
12	L	25/58 (43%)	24 (96%)	1 (4%)	31 55
12	X	26/58 (45%)	25 (96%)	1 (4%)	33 57
All	All	5301/7966 (66%)	4747 (90%)	554 (10%)	7 24

All (554) 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
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	435	ARG
1	A	441	ASP
1	A	444	LEU
1	A	446	ASN

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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	233	GLU
3	C	251	LEU
3	C	262	LEU
3	C	267	PRO
4	D	32	PRO
4	D	41	HIS

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Mol	Chain	Res	Type
4	D	48	LEU
4	D	51	LEU
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
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

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Mol	Chain	Res	Type
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	34	TYR
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	16	VAL
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

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Mol	Chain	Res	Type
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
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	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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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	92	VAL
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (137) 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	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

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Mol	Chain	Res	Type
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
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	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	1117	GLN
2	B	1161	HIS
2	B	1179	GLN
2	B	1193	GLN
2	B	1211	ASN
3	C	167	HIS
4	D	99	ASN
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
6	F	100	GLN
7	G	53	ASN
8	H	136	GLN
8	H	138	ASN
9	I	12	ASN

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Mol	Chain	Res	Type
9	I	46	HIS
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
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	491	HIS
1	M	504	GLN
1	M	699	GLN
1	M	737	ASN
1	M	742	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	356	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

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Mol	Chain	Res	Type
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
2	N	1117	GLN
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	100	GLN
7	S	53	ASN
8	T	136	GLN
8	T	138	ASN
9	U	12	ASN
9	U	46	HIS
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 carbohydrates 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%)	0.70	141 (10%) 6 10	201, 248, 299, 338	0
1	M	1386/1743 (79%)	0.82	177 (12%) 3 7	209, 256, 307, 345	0
2	B	1073/1227 (87%)	0.73	105 (9%) 7 10	200, 257, 309, 343	0
2	N	1074/1227 (87%)	0.81	130 (12%) 4 8	207, 264, 316, 350	0
3	C	265/304 (87%)	0.58	12 (4%) 33 31	211, 245, 280, 304	0
3	O	265/304 (87%)	0.73	33 (12%) 3 8	219, 253, 287, 312	0
4	D	163/186 (87%)	1.25	34 (20%) 1 3	229, 267, 306, 310	0
4	P	162/186 (87%)	1.03	26 (16%) 1 5	236, 275, 312, 318	0
5	E	214/214 (100%)	1.05	46 (21%) 0 3	228, 290, 334, 343	0
5	Q	214/214 (100%)	0.87	35 (16%) 1 5	236, 297, 342, 350	0
6	F	84/155 (54%)	0.66	5 (5%) 21 21	205, 231, 261, 268	0
6	R	84/155 (54%)	0.60	7 (8%) 11 13	213, 239, 268, 276	0
7	G	171/171 (100%)	0.87	21 (12%) 4 8	233, 252, 288, 298	0
7	S	171/171 (100%)	0.75	15 (8%) 10 12	240, 260, 295, 305	0
8	H	130/145 (89%)	1.04	24 (18%) 1 4	254, 286, 314, 330	0
8	T	130/145 (89%)	1.08	29 (22%) 0 2	261, 294, 322, 338	0
9	I	112/115 (97%)	1.30	27 (24%) 0 2	246, 286, 317, 326	0
9	U	112/115 (97%)	1.08	19 (16%) 1 4	254, 294, 325, 334	0
10	J	62/72 (86%)	0.26	1 (1%) 72 64	207, 236, 276, 290	0
10	V	62/72 (86%)	0.40	2 (3%) 47 41	214, 244, 283, 298	0
11	K	113/118 (95%)	0.82	13 (11%) 4 9	219, 246, 269, 294	0
11	W	113/118 (95%)	0.82	17 (15%) 2 5	226, 253, 276, 301	0
12	L	46/73 (63%)	1.76	13 (28%) 0 2	242, 315, 329, 332	0
12	X	46/73 (63%)	1.25	10 (21%) 0 3	249, 322, 337, 339	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
All	All	7636/9046 (84%)	0.81	942 (12%) 4 8	200, 258, 315, 350	0

All (942) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
12	L	28	GLY	10.3
12	X	28	GLY	8.6
3	O	268	ALA	8.6
2	B	724	LYS	7.9
12	X	27	TYR	7.6
1	A	1084	ASN	7.5
2	N	238	GLY	7.5
4	D	81	ASN	7.3
1	A	1177	SER	7.3
4	P	73	GLY	7.2
2	B	79	PHE	7.1
1	M	255	GLU	7.1
1	M	1084	ASN	7.1
2	B	54	PRO	7.1
2	B	723	ALA	7.1
9	U	114	SER	6.9
4	P	22	GLU	6.9
9	U	115	GLU	6.9
1	M	1085	THR	6.8
2	B	239	SER	6.7
1	A	254	ASP	6.6
1	M	1190	GLN	6.6
2	B	439	LEU	6.6
12	L	29	VAL	6.5
2	B	121	LYS	6.4
1	M	900	VAL	6.2
11	W	113	ASN	6.1
2	B	352	GLU	6.0
2	B	441	VAL	6.0
9	I	96	ASN	5.9
9	I	112	ASP	5.8
3	O	2	SER	5.8
7	S	94	VAL	5.8
3	C	267	PRO	5.8
2	B	726	ILE	5.7
3	C	268	ALA	5.7
1	M	425	ILE	5.7

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Mol	Chain	Res	Type	RSRZ
1	A	1190	GLN	5.7
2	N	724	LYS	5.6
2	B	440	ALA	5.5
1	A	119	ASN	5.5
5	E	51	ASN	5.4
1	M	707	PRO	5.4
11	K	55	ASP	5.4
3	C	265	SER	5.4
1	A	1083	LEU	5.3
3	O	267	PRO	5.3
1	A	1244	VAL	5.3
1	M	1120	VAL	5.3
1	M	708	GLY	5.3
6	F	72	LEU	5.3
2	N	440	ALA	5.2
1	M	119	ASN	5.2
3	C	139	ASP	5.2
4	D	80	SER	5.2
4	D	166	LYS	5.2
2	B	721	ASP	5.2
6	R	72	LEU	5.1
9	I	97	MET	5.1
2	N	640	ASP	5.0
1	A	1245	ILE	5.0
2	N	439	LEU	5.0
2	B	238	GLY	5.0
4	D	83	GLU	4.9
1	M	984	THR	4.9
1	A	54	ASN	4.9
1	M	390	THR	4.9
5	Q	110	ILE	4.9
1	M	1257	ALA	4.8
1	M	985	ILE	4.8
3	C	2	SER	4.8
1	A	1085	THR	4.8
1	M	256	THR	4.8
1	A	116	ASP	4.8
2	N	723	ALA	4.8
1	A	257	THR	4.7
1	A	165	ARG	4.7
1	M	254	ASP	4.6
5	E	52	PRO	4.6

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Mol	Chain	Res	Type	RSRZ
1	A	118	THR	4.6
5	E	133	THR	4.6
1	M	901	ASP	4.6
2	B	53	GLU	4.6
2	N	1039	GLY	4.6
12	X	54	GLY	4.6
2	N	114	PRO	4.6
3	O	212	PRO	4.6
2	N	726	ILE	4.6
4	P	72	ASN	4.6
4	P	81	ASN	4.6
4	P	20	ASP	4.6
3	O	265	SER	4.6
2	N	239	SER	4.5
5	E	50	GLY	4.5
8	T	125	GLU	4.5
1	M	1099	GLY	4.5
9	I	111	ARG	4.5
12	L	27	TYR	4.5
1	M	115	LEU	4.4
2	B	640	ASP	4.4
2	B	78	ARG	4.4
5	E	4	ASN	4.4
5	Q	133	THR	4.4
1	A	1082	THR	4.3
6	R	107	VAL	4.3
8	T	37	LYS	4.3
1	M	283	ASP	4.3
2	N	320	GLU	4.3
2	N	80	GLY	4.3
3	O	264	ASN	4.2
1	A	149	GLU	4.2
2	N	441	VAL	4.2
4	P	23	GLU	4.2
8	H	103	PHE	4.2
4	D	115	PHE	4.2
1	M	88	LYS	4.2
4	P	166	LYS	4.2
4	D	20	ASP	4.2
1	M	421	ARG	4.2
2	N	50	VAL	4.2
1	M	427	LEU	4.2

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Mol	Chain	Res	Type	RSRZ
5	E	85	PRO	4.2
2	N	916	THR	4.2
2	N	268	VAL	4.2
2	N	85	SER	4.2
5	E	100	GLN	4.2
11	K	54	PRO	4.2
4	D	165	ALA	4.2
6	R	108	LEU	4.2
5	E	1	MET	4.2
4	P	184	PRO	4.1
1	M	1178	ILE	4.1
2	B	348	ILE	4.1
1	M	1281	GLY	4.1
2	N	917	PRO	4.1
2	N	675	VAL	4.1
1	A	288	HIS	4.1
1	M	120	PRO	4.1
2	N	269	LYS	4.1
8	H	109	ASP	4.0
1	A	984	THR	4.0
2	N	317	GLN	4.0
1	M	394	ARG	4.0
1	M	118	THR	4.0
2	N	834	ASN	4.0
4	P	21	ASP	4.0
5	Q	109	PHE	4.0
2	B	675	VAL	4.0
11	W	84	LYS	4.0
2	N	348	ILE	4.0
1	A	704	GLU	4.0
1	M	149	GLU	4.0
1	A	121	THR	4.0
1	A	1225	ASP	4.0
5	Q	115	ILE	4.0
3	C	266	ARG	3.9
5	Q	103	ASN	3.9
1	M	282	MET	3.9
2	N	935	ARG	3.9
2	N	421	ILE	3.9
1	M	424	ASP	3.9
1	M	1245	ILE	3.9
2	N	79	PHE	3.9

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Mol	Chain	Res	Type	RSRZ
1	M	47	ARG	3.9
11	W	82	ARG	3.9
1	M	726	ALA	3.9
4	D	150	CYS	3.9
1	M	116	ASP	3.9
1	A	523	GLY	3.9
1	A	258	GLN	3.9
7	G	126	SER	3.9
4	P	183	ASP	3.9
1	A	166	GLY	3.9
1	M	195	ASP	3.9
1	A	406	VAL	3.8
2	B	120	GLU	3.8
1	M	1244	VAL	3.8
4	D	87	ASP	3.8
2	N	425	MET	3.8
1	M	834	GLU	3.8
1	M	672	ALA	3.8
2	B	727	LYS	3.8
1	M	1140	ILE	3.8
2	N	158	ILE	3.8
12	L	41	SER	3.8
1	M	1171	THR	3.8
1	A	434	GLU	3.8
1	M	1323	PRO	3.8
2	B	725	ARG	3.8
1	M	121	THR	3.8
1	M	287	GLN	3.8
4	D	183	ASP	3.8
2	N	162	PRO	3.7
3	O	211	GLU	3.7
2	B	119	MET	3.7
2	B	12	ILE	3.7
8	T	133	SER	3.7
2	N	156	VAL	3.7
1	M	1280	PRO	3.7
7	G	81	PRO	3.7
7	G	162	SER	3.7
4	P	82	GLY	3.7
2	N	641	ASN	3.6
5	E	113	ASN	3.6
1	A	985	ILE	3.6

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Mol	Chain	Res	Type	RSRZ
2	N	639	LYS	3.6
1	A	433	VAL	3.6
2	B	317	GLN	3.6
2	N	157	HIS	3.6
5	Q	128	PRO	3.6
4	D	82	GLY	3.6
1	M	54	ASN	3.6
1	M	916	TYR	3.6
4	D	73	GLY	3.6
2	N	725	ARG	3.6
1	M	1121	TYR	3.6
2	B	1049	ASP	3.6
1	M	899	TYR	3.6
5	E	49	MET	3.6
9	I	113	GLU	3.6
2	N	428	CYS	3.6
2	N	918	ILE	3.6
2	N	115	VAL	3.6
3	O	262	LEU	3.6
1	A	699	GLN	3.6
1	A	900	VAL	3.6
11	K	113	ASN	3.5
2	B	1223	VAL	3.5
1	A	48	PRO	3.5
1	A	419	HIS	3.5
1	A	1330	THR	3.5
1	M	285	SER	3.5
2	B	722	THR	3.5
2	N	161	VAL	3.5
1	A	287	GLN	3.5
2	N	113	SER	3.5
5	E	86	SER	3.5
8	T	34	SER	3.5
1	M	165	ARG	3.5
9	U	96	ASN	3.5
11	W	79	GLU	3.5
1	M	1214	VAL	3.4
2	N	270	GLN	3.4
9	I	98	THR	3.4
2	N	1041	GLU	3.4
2	B	641	ASN	3.4
12	X	52	GLU	3.4

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Mol	Chain	Res	Type	RSRZ
1	M	934	TYR	3.4
4	D	116	LYS	3.4
1	M	905	GLU	3.4
1	M	411	GLY	3.4
5	E	2	GLU	3.4
1	A	1099	GLY	3.4
1	A	115	LEU	3.4
2	N	890	TYR	3.4
7	S	95	SER	3.4
2	N	888	GLY	3.4
3	O	41	PRO	3.4
2	N	325	PHE	3.4
7	G	124	SER	3.4
9	U	86	PHE	3.4
1	M	1287	MET	3.4
2	B	241	LEU	3.4
2	B	157	HIS	3.4
6	F	155	ASN	3.4
2	B	270	GLN	3.3
1	M	281	GLU	3.3
1	A	422	ALA	3.3
9	I	109	THR	3.3
2	B	567	HIS	3.3
8	T	35	ALA	3.3
1	A	47	ARG	3.3
5	E	132	GLU	3.3
5	Q	132	GLU	3.3
4	P	165	ALA	3.3
8	T	81	PRO	3.3
9	U	43	VAL	3.3
8	T	14	THR	3.3
9	I	9	GLU	3.3
12	X	49	ARG	3.3
4	D	185	TYR	3.3
2	N	727	LYS	3.3
1	M	1030	THR	3.3
1	A	122	MET	3.3
2	B	77	ILE	3.3
2	B	1051	THR	3.3
8	H	108	GLU	3.3
1	A	416	LEU	3.3
1	M	904	ASP	3.3

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Mol	Chain	Res	Type	RSRZ
2	N	327	GLY	3.3
1	A	1384	LEU	3.3
3	O	139	ASP	3.3
3	O	266	ARG	3.3
1	A	1178	ILE	3.3
1	M	914	ILE	3.3
1	A	427	LEU	3.3
2	B	212	ASN	3.2
11	W	83	PRO	3.2
4	D	30	LEU	3.2
1	M	38	PRO	3.2
12	L	64	LYS	3.2
2	B	318	ASP	3.2
2	N	426	GLN	3.2
9	U	102	VAL	3.2
2	B	570	SER	3.2
5	Q	202	GLU	3.2
1	M	6	TYR	3.2
3	C	264	ASN	3.2
9	I	87	GLN	3.2
2	B	936	ASP	3.2
2	N	81	LYS	3.2
9	I	115	GLU	3.2
2	B	524	GLN	3.2
7	G	166	ASP	3.2
2	B	676	TYR	3.2
3	O	88	GLU	3.2
5	E	48	SER	3.2
9	U	84	VAL	3.2
1	M	294	GLU	3.2
1	M	288	HIS	3.2
5	Q	101	GLU	3.2
8	H	107	ASP	3.2
1	M	312	GLN	3.1
2	B	351	LYS	3.1
1	M	915	GLU	3.1
1	M	1307	TRP	3.1
2	N	1040	TYR	3.1
5	E	208	ALA	3.1
2	N	118	ASP	3.1
3	O	180	TYR	3.1
5	E	114	ASN	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	1176	PHE	3.1
2	N	352	GLU	3.1
2	B	899	ILE	3.1
1	M	791	ASP	3.1
2	N	119	MET	3.1
2	N	240	ARG	3.1
8	T	80	PRO	3.1
7	G	125	ASN	3.1
1	M	671	ILE	3.1
2	B	267	TYR	3.1
2	N	865	ARG	3.1
2	N	638	SER	3.1
1	A	1100	VAL	3.1
12	L	48	VAL	3.1
2	B	243	SER	3.1
7	G	163	ILE	3.1
2	N	430	GLU	3.1
4	D	184	PRO	3.1
7	G	64	GLY	3.1
2	N	424	TYR	3.1
3	O	213	PRO	3.1
5	Q	100	GLN	3.1
1	M	393	VAL	3.1
2	N	871	VAL	3.1
5	E	57	MET	3.1
8	H	80	PRO	3.1
1	M	1101	PRO	3.1
11	W	112	LYS	3.1
5	E	101	GLU	3.0
2	B	847	ASP	3.0
12	L	56	ARG	3.0
2	B	881	THR	3.0
2	N	361	GLU	3.0
7	S	133	ASN	3.0
2	B	269	LYS	3.0
6	F	154	ASP	3.0
2	B	353	LEU	3.0
1	A	393	VAL	3.0
1	A	414	ILE	3.0
2	N	1127	GLY	3.0
1	A	1267	GLU	3.0
2	B	430	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
1	M	838	ILE	3.0
2	B	728	PRO	3.0
2	N	978	ASP	3.0
2	N	494	PRO	3.0
2	N	314	PHE	3.0
9	I	99	LEU	3.0
8	T	15	VAL	3.0
2	N	315	VAL	3.0
6	R	109	VAL	3.0
1	M	1100	VAL	3.0
7	G	82	PHE	3.0
1	A	117	GLU	3.0
5	E	209	SER	3.0
9	U	87	GLN	2.9
8	H	14	THR	2.9
1	A	8	SER	2.9
1	A	1165	ILE	2.9
2	B	1222	GLY	2.9
1	M	1168	ASP	2.9
1	M	422	ALA	2.9
1	A	1226	LEU	2.9
1	A	1234	ASN	2.9
8	H	2	SER	2.9
2	N	318	ASP	2.9
1	M	907	ASN	2.9
1	M	1086	PHE	2.9
2	B	284	VAL	2.9
2	N	692	GLY	2.9
2	N	877	PRO	2.9
1	M	117	GLU	2.9
2	B	156	VAL	2.9
1	M	419	HIS	2.9
1	M	983	LEU	2.9
2	B	266	PRO	2.9
4	D	85	ASP	2.9
5	E	3	ASP	2.9
8	T	26	ILE	2.9
3	O	3	LYS	2.9
1	A	33	VAL	2.9
8	T	32	THR	2.9
2	B	834	ASN	2.9
2	B	85	SER	2.9

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Mol	Chain	Res	Type	RSRZ
2	N	53	GLU	2.9
4	D	167	LYS	2.9
11	W	29	ASN	2.9
2	B	935	ARG	2.9
7	G	95	SER	2.9
1	A	253	MET	2.9
1	M	982	ASP	2.9
7	G	85	GLU	2.9
2	N	324	ASP	2.8
8	H	81	PRO	2.8
4	P	167	LYS	2.8
4	D	128	LEU	2.8
8	H	34	SER	2.8
1	M	598	LEU	2.8
1	M	1309	LEU	2.8
2	N	837	ASP	2.8
2	B	958	GLN	2.8
8	H	62	SER	2.8
5	Q	129	ALA	2.8
9	U	97	MET	2.8
5	Q	2	GLU	2.8
9	I	92	ARG	2.8
1	A	807	ARG	2.8
1	A	1030	THR	2.8
2	B	55	ARG	2.8
5	E	115	ILE	2.8
1	M	426	VAL	2.8
4	P	93	THR	2.8
2	B	655	ILE	2.8
8	H	82	LYS	2.8
2	B	653	ARG	2.8
8	T	36	ILE	2.8
8	H	35	ALA	2.8
2	B	644	GLU	2.8
1	M	147	VAL	2.8
2	B	268	VAL	2.8
2	N	341	ARG	2.8
1	A	187	LYS	2.8
2	B	52	GLU	2.8
11	W	80	GLY	2.8
2	N	892	LYS	2.8
1	M	902	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
1	M	1282	ILE	2.8
2	N	54	PRO	2.8
3	O	210	GLU	2.8
7	S	98	GLY	2.8
11	W	102	ASP	2.8
1	M	420	LYS	2.8
9	U	41	PRO	2.8
12	L	65	ARG	2.8
1	A	282	MET	2.8
1	A	1163	THR	2.8
4	D	84	ILE	2.8
5	E	5	ASN	2.8
8	H	138	ASN	2.8
9	I	110	PHE	2.8
1	M	199	GLU	2.8
4	D	169	VAL	2.8
1	M	1133	ALA	2.8
5	E	117	PRO	2.8
2	N	427	ARG	2.8
3	O	40	VAL	2.8
2	B	580	THR	2.7
4	P	87	ASP	2.7
1	A	283	ASP	2.7
12	X	65	ARG	2.7
9	U	55	THR	2.7
9	I	93	LYS	2.7
2	B	568	THR	2.7
3	O	42	THR	2.7
2	B	56	LEU	2.7
1	M	1131	GLU	2.7
1	M	1285	VAL	2.7
1	A	1087	HIS	2.7
2	N	869	SER	2.7
2	B	118	ASP	2.7
4	D	34	PHE	2.7
11	K	56	VAL	2.7
3	C	212	PRO	2.7
1	A	55	ASP	2.7
1	M	293	VAL	2.7
1	M	1112	ASN	2.7
5	E	98	ARG	2.7
1	A	1224	ASP	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	1086	PHE	2.7
1	A	120	PRO	2.7
1	M	903	MET	2.7
5	E	109	PHE	2.7
2	N	896	ASP	2.7
1	A	1120	VAL	2.7
1	M	87	ALA	2.7
1	M	835	THR	2.7
1	A	6	TYR	2.7
1	A	150	ALA	2.7
2	N	889	THR	2.7
11	W	57	THR	2.7
2	N	1223	VAL	2.7
9	I	86	PHE	2.7
2	N	209	SER	2.7
1	A	1266	ILE	2.7
1	M	1044	PHE	2.7
1	A	901	ASP	2.7
2	N	838	SER	2.7
5	Q	116	THR	2.7
2	N	117	LEU	2.7
8	H	144	ARG	2.7
11	K	5	ASP	2.7
1	M	839	GLN	2.7
2	B	566	GLN	2.7
2	N	362	GLY	2.7
8	T	126	GLY	2.7
1	M	700	HIS	2.7
2	N	339	GLU	2.7
2	N	886	LYS	2.6
9	U	3	SER	2.6
5	Q	11	LEU	2.6
9	I	19	ASP	2.6
12	X	29	VAL	2.6
1	A	421	ARG	2.6
9	I	88	SER	2.6
7	S	130	TYR	2.6
2	B	80	GLY	2.6
11	K	57	THR	2.6
1	A	405	TYR	2.6
2	N	319	LYS	2.6
3	O	146	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
4	D	86	ASP	2.6
7	G	127	PRO	2.6
5	Q	149	VAL	2.6
2	N	267	TYR	2.6
1	M	807	ARG	2.6
2	N	387	ASP	2.6
8	T	103	PHE	2.6
8	T	130	SER	2.6
2	N	266	PRO	2.6
2	N	676	TYR	2.6
1	M	246	GLN	2.6
12	L	39	ASN	2.6
2	B	581	GLY	2.6
3	O	261	GLU	2.6
4	P	181	LEU	2.6
2	N	112	SER	2.6
2	N	284	VAL	2.6
1	M	1225	ASP	2.6
3	C	222	LYS	2.6
2	B	158	ILE	2.6
5	E	31	GLN	2.6
4	P	150	CYS	2.6
1	M	561	VAL	2.6
2	B	442	LYS	2.6
8	T	77	SER	2.6
1	A	285	SER	2.6
2	N	210	ALA	2.6
5	E	80	GLU	2.6
8	T	131	LEU	2.6
4	D	47	ASP	2.6
1	A	916	TYR	2.6
1	M	122	MET	2.6
6	R	73	ALA	2.6
9	I	107	LYS	2.6
1	M	898	TYR	2.6
2	N	95	THR	2.6
1	M	763	SER	2.6
2	B	387	ASP	2.6
1	M	7	SER	2.5
5	E	11	LEU	2.5
2	B	320	GLU	2.5
2	N	677	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
8	H	33	ASN	2.5
11	K	79	GLU	2.5
1	A	286	PRO	2.5
11	W	81	THR	2.5
9	I	101	TYR	2.5
1	A	1081	MET	2.5
1	M	196	ALA	2.5
1	M	625	SER	2.5
11	K	19	LEU	2.5
1	A	38	PRO	2.5
1	M	699	GLN	2.5
2	N	1120	GLU	2.5
5	E	35	ASP	2.5
11	K	78	GLU	2.5
11	W	19	LEU	2.5
1	A	390	THR	2.5
3	O	134	ARG	2.5
5	E	116	THR	2.5
8	H	105	GLU	2.5
1	M	1231	SER	2.5
7	S	96	PRO	2.5
1	M	1083	LEU	2.5
5	Q	120	ASN	2.5
2	B	114	PRO	2.5
4	D	88	GLU	2.5
1	A	173	PRO	2.5
3	O	130	GLY	2.5
1	M	730	ALA	2.5
1	M	1270	MET	2.5
1	A	415	ASP	2.5
4	P	182	GLU	2.5
7	G	123	PRO	2.5
11	W	75	LEU	2.5
1	M	1308	ALA	2.5
1	A	39	GLU	2.5
6	R	124	GLU	2.5
2	N	429	ILE	2.5
9	U	46	HIS	2.5
2	B	1224	SER	2.5
1	A	1004	GLY	2.5
1	M	1098	LEU	2.5
4	D	28	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
5	E	112	GLN	2.5
1	A	56	PRO	2.5
1	A	853	TYR	2.5
2	B	649	LYS	2.5
2	N	218	LYS	2.5
1	A	397	PRO	2.5
1	A	559	GLY	2.5
1	M	200	ARG	2.4
5	Q	136	GLU	2.4
8	H	61	ASN	2.4
11	W	87	LEU	2.4
4	P	128	LEU	2.4
2	B	647	ILE	2.4
3	O	145	CYS	2.4
1	A	1228	VAL	2.4
3	O	107	GLU	2.4
8	T	82	LYS	2.4
9	I	105	ASN	2.4
1	M	187	LYS	2.4
1	M	705	LEU	2.4
2	N	265	LEU	2.4
8	H	106	GLY	2.4
8	T	132	ALA	2.4
1	A	425	ILE	2.4
1	A	53	LEU	2.4
2	B	285	PRO	2.4
5	Q	124	PRO	2.4
11	K	53	TYR	2.4
2	B	838	SER	2.4
1	M	734	ALA	2.4
2	N	987	LYS	2.4
3	O	219	PHE	2.4
7	S	99	PHE	2.4
12	L	40	PHE	2.4
1	M	908	SER	2.4
2	B	1220	ARG	2.4
7	G	1	MET	2.4
2	N	988	GLY	2.4
5	Q	29	ILE	2.4
1	M	1322	VAL	2.4
5	Q	80	GLU	2.4
2	N	728	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	842	LEU	2.4
1	M	276	ASN	2.4
2	N	52	GLU	2.4
5	E	141	VAL	2.4
2	N	1224	SER	2.4
7	S	162	SER	2.4
1	A	706	LYS	2.4
2	B	421	ILE	2.4
8	H	27	ILE	2.4
1	M	1271	LEU	2.4
4	P	24	ASN	2.4
10	V	30	GLN	2.4
1	M	113	LEU	2.3
7	G	165	GLU	2.4
1	A	248	ARG	2.3
1	A	398	ASN	2.3
3	O	110	THR	2.3
1	A	420	LYS	2.3
5	Q	108	ILE	2.3
1	A	672	ALA	2.3
9	I	102	VAL	2.3
2	N	779	GLY	2.3
4	D	22	GLU	2.3
1	A	413	ARG	2.3
1	A	1270	MET	2.3
2	B	425	MET	2.3
3	O	172	PRO	2.3
4	D	151	GLU	2.3
1	A	920	ILE	2.3
1	M	284	GLY	2.3
2	N	340	LYS	2.3
8	H	104	GLU	2.3
1	M	1138	SER	2.3
5	E	99	ILE	2.3
5	E	131	ILE	2.3
7	S	81	PRO	2.3
1	M	1047	VAL	2.3
1	M	1277	ARG	2.3
1	M	145	LYS	2.3
4	D	33	GLU	2.3
3	C	84	ASP	2.3
5	Q	146	HIS	2.3

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Mol	Chain	Res	Type	RSRZ
9	I	100	PHE	2.3
1	A	705	LEU	2.3
1	M	836	GLY	2.3
2	B	645	LEU	2.3
9	U	76	PRO	2.3
8	H	125	GLU	2.3
9	U	113	GLU	2.3
5	Q	111	TYR	2.3
7	S	5	LYS	2.3
1	A	1292	VAL	2.3
1	A	315	ALA	2.3
1	A	907	ASN	2.3
1	A	1175	TYR	2.3
5	E	108	ILE	2.3
8	H	28	GLY	2.3
8	T	79	ARG	2.3
1	M	802	GLU	2.3
4	P	149	GLY	2.3
1	A	703	LEU	2.3
2	B	1013	ASN	2.3
2	N	344	TYR	2.3
1	A	1425	ARG	2.3
9	U	47	GLU	2.3
1	M	286	PRO	2.3
1	A	195	ASP	2.3
1	A	1047	VAL	2.3
5	Q	127	SER	2.3
2	B	1050	LEU	2.3
2	B	240	ARG	2.3
12	L	49	ARG	2.3
1	M	930	LEU	2.3
2	N	881	THR	2.3
1	M	126	ILE	2.2
2	B	890	TYR	2.2
2	N	870	ILE	2.2
5	Q	131	ILE	2.2
1	M	1324	GLY	2.2
2	N	721	ASP	2.2
2	N	832	GLY	2.2
1	A	1276	LEU	2.2
1	M	1163	THR	2.2
8	H	13	GLN	2.2

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Mol	Chain	Res	Type	RSRZ
1	M	324	LYS	2.2
8	T	38	LEU	2.2
1	M	1177	SER	2.2
2	N	722	THR	2.2
5	Q	117	PRO	2.2
8	T	27	ILE	2.2
8	T	109	ASP	2.2
1	M	1202	ALA	2.2
2	B	115	VAL	2.2
9	U	57	GLY	2.2
1	M	1134	LYS	2.2
3	O	137	ASP	2.2
2	N	894	ASP	2.2
2	N	313	GLY	2.2
5	Q	114	ASN	2.2
7	G	133	ASN	2.2
1	A	171	THR	2.2
1	M	906	LYS	2.2
2	B	155	LYS	2.2
1	A	228	ASP	2.2
1	M	1212	ASN	2.2
5	E	87	VAL	2.2
11	W	28	PRO	2.2
1	M	701	ASN	2.2
1	M	933	GLU	2.2
1	M	1267	GLU	2.2
2	B	358	THR	2.2
2	N	207	GLU	2.2
7	G	164	LYS	2.2
5	Q	1	MET	2.2
6	F	107	VAL	2.2
1	A	982	ASP	2.2
3	O	194	GLU	2.2
9	U	93	LYS	2.2
1	M	1236	ASP	2.2
4	P	115	PHE	2.2
6	R	154	ASP	2.2
1	A	182	LEU	2.2
1	A	394	ARG	2.2
2	B	648	THR	2.2
1	A	1304	GLU	2.2
1	M	706	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
7	G	118	ASN	2.2
12	X	48	VAL	2.2
1	M	920	ILE	2.2
1	M	1043	ALA	2.2
1	M	1155	TYR	2.2
2	N	786	ASN	2.2
3	C	216	GLY	2.2
10	V	28	GLY	2.2
1	M	404	LYS	2.2
1	M	1042	ASP	2.2
2	N	160	LYS	2.2
2	N	120	GLU	2.2
11	K	3	ALA	2.2
5	E	120	ASN	2.2
4	D	124	VAL	2.2
1	M	1321	ALA	2.2
1	M	520	PRO	2.2
1	M	840	ARG	2.2
2	N	493	THR	2.2
5	Q	189	LEU	2.2
2	B	903	VAL	2.2
2	B	639	LYS	2.2
1	A	51	GLY	2.2
2	N	1038	ARG	2.2
1	M	1119	THR	2.2
5	Q	107	GLY	2.2
1	A	35	ILE	2.2
1	A	887	ILE	2.2
1	M	109	ASN	2.2
5	E	53	GLN	2.2
1	A	418	TYR	2.2
4	P	116	LYS	2.2
3	O	136	ASP	2.2
12	L	35	ALA	2.2
5	E	107	GLY	2.2
7	G	65	SER	2.2
5	E	47	ASP	2.1
1	M	452	HIS	2.1
3	O	112	ASP	2.1
1	A	867	PHE	2.1
1	M	1276	LEU	2.1
2	B	1067	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
8	T	104	GLU	2.1
2	N	392	ASP	2.1
1	A	1164	VAL	2.1
4	P	30	LEU	2.1
1	M	37	TYR	2.1
1	M	245	PRO	2.1
12	X	56	ARG	2.1
1	A	103	CYS	2.1
1	A	1335	PHE	2.1
4	D	21	ASP	2.1
7	S	146	LYS	2.1
2	B	424	TYR	2.1
5	E	39	GLU	2.1
1	M	280	LEU	2.1
4	D	171	LEU	2.1
1	A	401	PRO	2.1
2	B	654	LYS	2.1
5	Q	81	PHE	2.1
1	A	625	SER	2.1
4	P	85	ASP	2.1
1	A	914	ILE	2.1
2	B	429	ILE	2.1
9	I	76	PRO	2.1
3	C	211	GLU	2.1
1	A	671	ILE	2.1
1	M	853	TYR	2.1
9	I	94	ASP	2.1
1	M	48	PRO	2.1
1	A	379	GLU	2.1
1	M	793	PHE	2.1
5	E	69	GLU	2.1
1	A	696	TYR	2.1
7	S	161	GLY	2.1
2	N	876	LYS	2.1
5	E	32	GLU	2.1
8	T	112	LYS	2.1
1	A	1222	PHE	2.1
1	A	1422	ASP	2.1
2	N	1049	ASP	2.1
7	G	94	VAL	2.1
12	L	67	SER	2.1
2	B	384	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
2	B	560	GLU	2.1
2	N	236	GLU	2.1
5	Q	86	SER	2.1
8	T	60	ALA	2.1
7	G	134	ASP	2.1
11	K	83	PRO	2.1
8	T	113	VAL	2.1
3	O	263	GLU	2.1
1	A	1277	ARG	2.1
1	M	1145	LEU	2.1
10	J	64	PRO	2.1
5	E	33	GLU	2.1
9	I	21	GLU	2.1
5	Q	40	GLU	2.1
11	W	86	ALA	2.1
1	M	1136	ILE	2.1
8	T	33	ASN	2.1
2	N	637	GLU	2.1
5	E	66	GLU	2.1
6	F	109	VAL	2.1
7	S	149	GLY	2.1
7	S	101	ALA	2.1
2	N	568	THR	2.1
5	Q	150	PRO	2.1
1	M	951	ASN	2.1
2	B	50	VAL	2.1
2	N	235	LEU	2.1
1	M	1330	THR	2.1
1	A	930	LEU	2.1
12	X	57	VAL	2.1
1	A	407	ILE	2.1
2	N	1013	ASN	2.1
8	T	124	LEU	2.0
1	M	978	ALA	2.0
4	D	66	ALA	2.0
1	M	55	ASP	2.0
1	M	1164	VAL	2.0
1	A	172	GLN	2.0
5	Q	105	SER	2.0
4	D	181	LEU	2.0
1	A	40	ILE	2.0
3	O	132	PRO	2.0

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Mol	Chain	Res	Type	RSRZ
9	I	40	ASP	2.0
1	A	1263	LEU	2.0
1	M	201	LYS	2.0
1	M	975	LEU	2.0
11	W	101	LEU	2.0
9	U	63	GLY	2.0
7	S	9	LEU	2.0
11	K	101	LEU	2.0
2	B	57	ILE	2.0
2	N	891	GLU	2.0
1	A	113	LEU	2.0
2	N	1042	GLY	2.0
4	P	28	LEU	2.0
5	E	81	PHE	2.0
1	A	310	ALA	2.0
8	H	131	LEU	2.0
1	A	219	ASP	2.0
2	B	696	GLU	2.0
2	B	916	THR	2.0
2	N	359	GLN	2.0
1	M	1040	ASN	2.0
1	A	1235	ALA	2.0
9	I	108	LYS	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 carbohydrates in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. 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.

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
13	ZN	M	1801	1/1	0.20	0.20	249,249,249,249	0
13	ZN	X	101	1/1	0.39	0.17	278,278,278,278	0
13	ZN	U	201	1/1	0.41	0.13	266,266,266,266	0
13	ZN	I	201	1/1	0.62	0.37	258,258,258,258	0
13	ZN	L	101	1/1	0.71	0.13	270,270,270,270	0
13	ZN	A	1801	1/1	0.72	0.23	241,241,241,241	0
13	ZN	I	202	1/1	0.83	0.24	306,306,306,306	0
13	ZN	B	1301	1/1	0.85	0.11	228,228,228,228	0
13	ZN	O	401	1/1	0.86	0.09	238,238,238,238	0
13	ZN	A	1802	1/1	0.90	0.15	216,216,216,216	0
13	ZN	C	401	1/1	0.90	0.07	230,230,230,230	0
13	ZN	U	202	1/1	0.93	0.07	314,314,314,314	0
13	ZN	M	1802	1/1	0.93	0.19	224,224,224,224	0
13	ZN	J	101	1/1	0.96	0.31	234,234,234,234	0
13	ZN	V	101	1/1	0.97	0.27	242,242,242,242	0
13	ZN	N	1301	1/1	0.98	0.15	236,236,236,236	0

6.5 Other polymers (i)

There are no such residues in this entry.