



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 09:09 AM UTC

PDB ID : 2JA7 / pdb_00002ja7
Title : CPD lesion containing RNA Polymerase II elongation complex C
Authors : Brueckner, F.; Hennecke, U.; Carell, T.; Cramer, P.
Deposited on : 2006-11-23
Resolution : 3.80 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

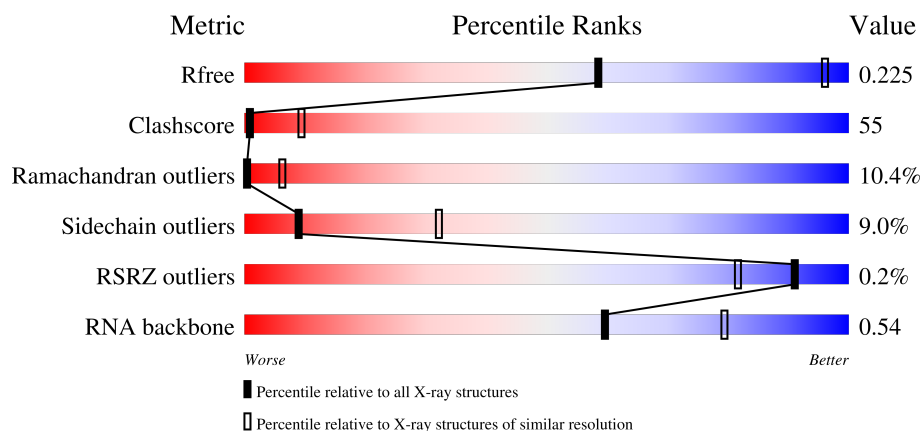
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.80 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1065 (3.96-3.64)
Clashscore	190562	1012 (3.94-3.66)
Ramachandran outliers	187476	1048 (3.96-3.64)
Sidechain outliers	187428	1043 (3.96-3.64)
RSRZ outliers	180081	1064 (3.96-3.64)
RNA backbone	3983	1007 (4.50-3.10)

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

Mol	Chain	Length	Quality of chain
1	1	14	
1	4	14	
2	2	25	
2	5	25	

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Mol	Chain	Length	Quality of chain
3	3	11	
3	6	11	
4	A	1733	
4	M	1733	
5	B	1224	
5	N	1224	
6	C	318	
6	O	318	
7	D	221	
7	P	221	
8	E	215	
8	Q	215	
9	F	155	
9	R	155	
10	G	171	
10	S	171	
11	H	146	
11	T	146	
12	I	122	
12	U	122	
13	J	70	
13	V	70	
14	K	120	
14	W	120	
15	L	70	

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Mol	Chain	Length	Quality of chain
15	X	70	17%40%7%34%

2 Entry composition

There are 17 unique types of molecules in this entry. The entry contains 63924 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 DNA chain called 5'-D(*TP*AP*AP*GP*TP*AP*CP*TP*TP*GP*AP*GP*CP*T)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1	7	Total	C	N	O	P	0	0	0
			141	69	27	39	6			
1	4	7	Total	C	N	O	P	0	0	0
			141	69	27	39	6			

- Molecule 2 is a DNA chain called 5'-D(*AP*GP*CP*TP*CP*AP*AP*GP*TP*AP*CP*TP*TP*TP*CP*CP*BRUP*GP*GP*TP*CP*AP*TP*T)-3'.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	2	18	Total	Br	C	N	O	P	0	0	0
			380	1	186	60	116	17			
2	5	18	Total	Br	C	N	O	P	0	0	0
			380	1	186	60	116	17			

- Molecule 3 is a RNA chain called 5'-R(*UP*UP*CP*GP*AP*CP*CP*AP*GP*GP*AP)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	3	10	Total	C	N	O	P	0	0	0
			212	96	41	66	9			
3	6	10	Total	C	N	O	P	0	0	0
			212	96	41	66	9			

- Molecule 4 is a protein called DNA-DIRECTED RNA POLYMERASE II LARGEST SUB-UNIT.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	A	1421	Total	C	N	O	S	0	0	0
			11186	7048	1958	2118	62			
4	M	1421	Total	C	N	O	S	0	0	0
			11186	7048	1958	2118	62			

- Molecule 5 is a protein called DNA-DIRECTED RNA POLYMERASE II 140 KDA POLYPEPTIDE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	B	1115	Total	C	N	O	S	0	0	0
			8866	5614	1553	1644	55			
5	N	1115	Total	C	N	O	S	0	0	0
			8866	5614	1553	1644	55			

- Molecule 6 is a protein called DNA-DIRECTED RNA POLYMERASE II 45KDA POLYPEPTIDE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	C	267	Total	C	N	O	S	0	0	0
			2101	1320	349	419	13			
6	O	267	Total	C	N	O	S	0	0	0
			2101	1320	349	419	13			

- Molecule 7 is a protein called DNA-DIRECTED RNA POLYMERASE II 32KDA POLYPEPTIDE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	D	177	Total	C	N	O	S	0	0	0
			1427	882	256	287	2			
7	P	177	Total	C	N	O	S	0	0	0
			1427	882	256	287	2			

- Molecule 8 is a protein called DNA-DIRECTED RNA POLYMERASES I, II, AND III 27 KDA POLYPEPTIDE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	E	214	Total	C	N	O	S	0	0	0
			1752	1111	309	321	11			
8	Q	214	Total	C	N	O	S	0	0	0
			1752	1111	309	321	11			

- Molecule 9 is a protein called DNA-DIRECTED RNA POLYMERASES I, II, AND III 23 KDA POLYPEPTIDE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	F	87	Total	C	N	O	S	0	0	0
			705	451	119	132	3			
9	R	87	Total	C	N	O	S	0	0	0
			705	451	119	132	3			

- Molecule 10 is a protein called DNA-DIRECTED RNA POLYMERASE II 19KDA POLYPEPTIDE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	G	171	Total	C	N	O	S	0	0	0
			1340	861	222	249	8			
10	S	171	Total	C	N	O	S	0	0	0
			1340	861	222	249	8			

- Molecule 11 is a protein called DNA-DIRECTED RNA POLYMERASES I, II, AND III 14.5 KDA POLYPEPTIDE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	H	135	Total	C	N	O	S	0	0	0
			1084	683	183	214	4			
11	T	135	Total	C	N	O	S	0	0	0
			1084	683	183	214	4			

- Molecule 12 is a protein called DNA-DIRECTED RNA POLYMERASE II SUBUNIT 9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	I	116	Total	C	N	O	S	0	0	0
			944	581	172	181	10			
12	U	116	Total	C	N	O	S	0	0	0
			944	581	172	181	10			

- Molecule 13 is a protein called DNA-DIRECTED RNA POLYMERASES I/II/III SUBUNIT 10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	J	65	Total	C	N	O	S	0	0	0
			532	339	93	94	6			
13	V	65	Total	C	N	O	S	0	0	0
			532	339	93	94	6			

- Molecule 14 is a protein called DNA-DIRECTED RNA POLYMERASE II 13.6 KDA POLYPEPTIDE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	K	114	Total	C	N	O	S	0	0	0
			919	590	156	171	2			
14	W	114	Total	C	N	O	S	0	0	0
			919	590	156	171	2			

- Molecule 15 is a protein called DNA-DIRECTED RNA POLYMERASES I, II, AND III 7.7

KDA POLYPEPTIDE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	L	46	Total	C	N	O	S	0	0	0
			364	224	72	64	4			
15	X	46	Total	C	N	O	S	0	0	0
			364	224	72	64	4			

- Molecule 16 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
16	A	1	Total	Mg	0	0
			1	1		
16	M	1	Total	Mg	0	0
			1	1		

- Molecule 17 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

3 Residue-property plots [i](#)

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

- Molecule 1: 5'-D(*TP*AP*AP*GP*TP*AP*CP*TP*TP*GP *AP*GP*CP*T)-3'

Chain 1: 

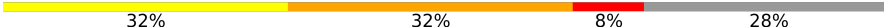


- Molecule 1: 5'-D(*TP*AP*AP*GP*TP*AP*CP*TP*TP*GP *AP*GP*CP*T)-3'

Chain 4: 

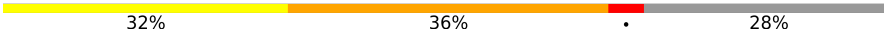


- Molecule 2: 5'-D(*AP*GP*CP*TP*CP*AP*AP*GP*TP*AP *CP*TP*TP*TP*TTP*CP*CP*BRUP*GP*GP*TP*CP*AP*TP*T)-3'

Chain 2: 



- Molecule 2: 5'-D(*AP*GP*CP*TP*CP*AP*AP*GP*TP*AP *CP*TP*TP*TP*TTP*CP*CP*BRUP*GP*GP*TP*CP*AP*TP*T)-3'

Chain 5: 



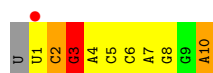
- Molecule 3: 5'-R(*UP*UP*CP*GP*AP*CP*CP*AP*GP*GP*AP)-3'

Chain 3: 



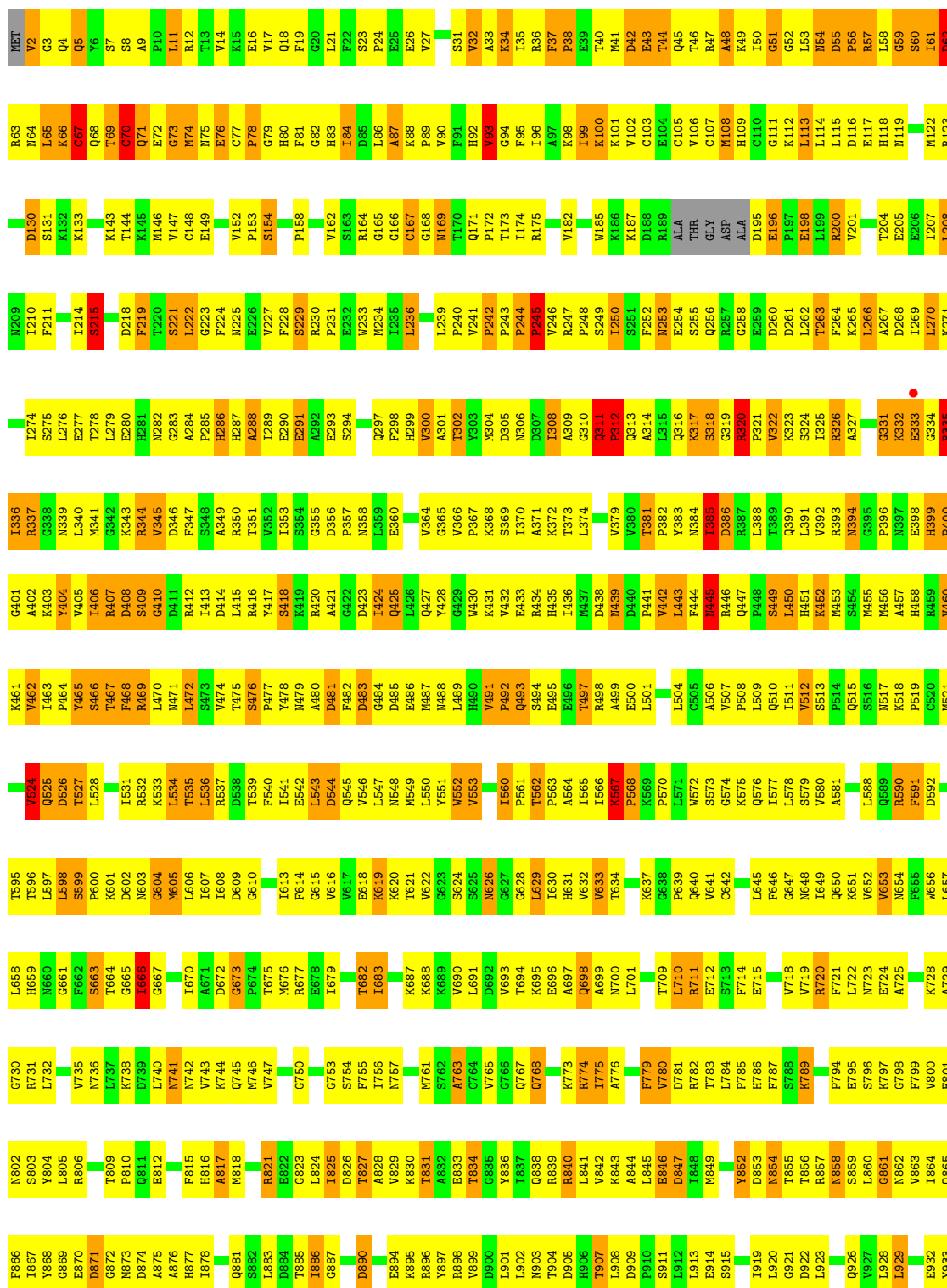
- Molecule 3: 5'-R(*UP*UP*CP*GP*AP*CP*CP*AP*GP*GP*AP)-3'

Chain 6: 



Molecule 4: DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT

Chain A: 22% 45% 13% 18%

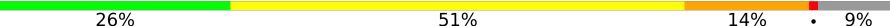




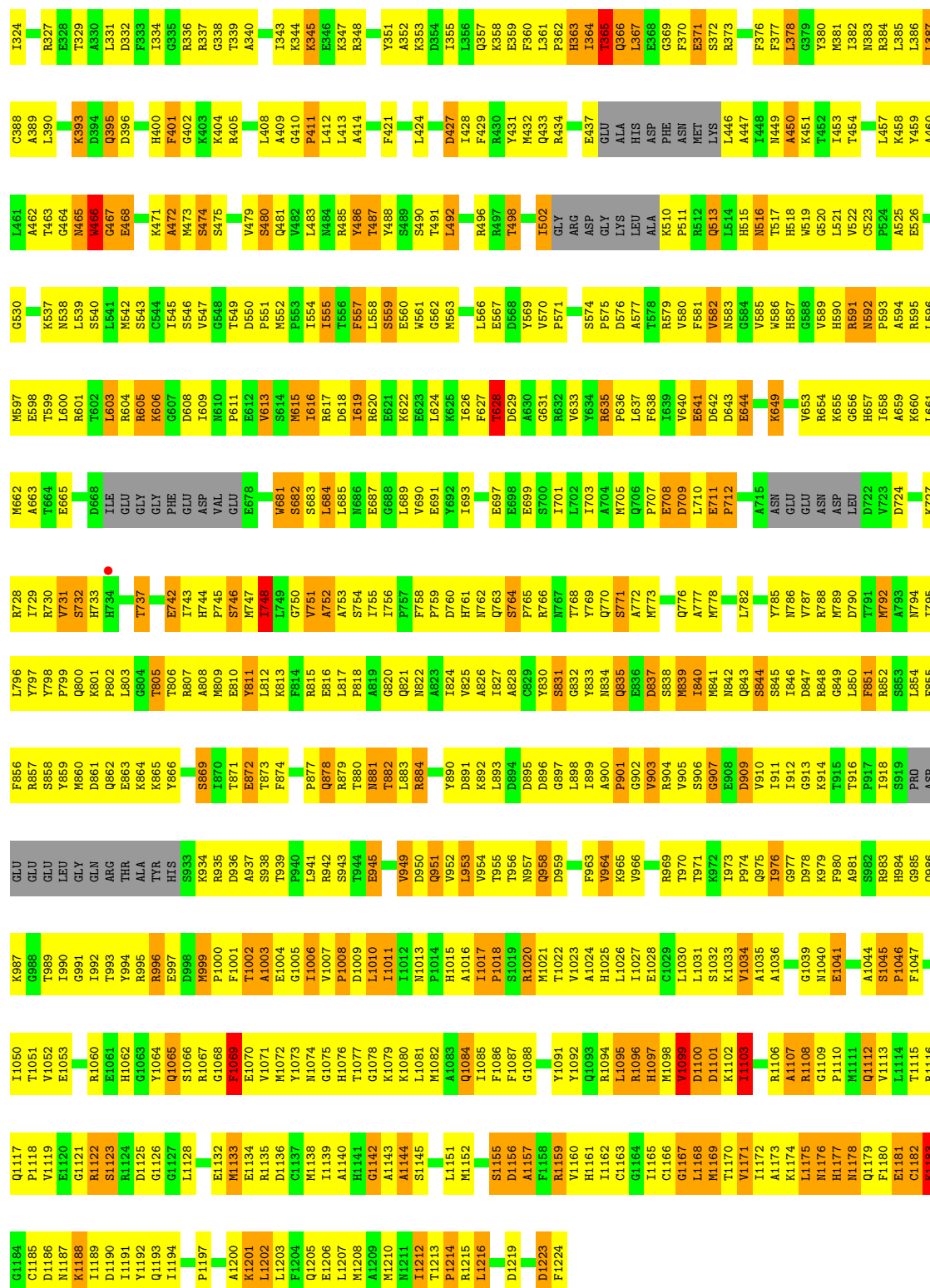
V1066	L1067	Q1070	S1071	I1072	G1073	E1074	P1075	A1076	T1077	G1078	M1079	T1080	L1081	ASN	THR	PHE	HIS	PHE	ALA	GLY	VAL	ALA	SER	K1092	R1093	K1094	V1095	T1096	S1096	G1097	V1098	P1099	R1100	L1101	K1102	M1106	V1107	D1043	L1046	M1110	M1111	K1112	T1113	P1114	S1115	L1116	T1117	V1118	Y1119	L1120	E1121	P1122	G1123	H1124	L1125	A1126	D1127	E1129																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
K934	Q935	V937	K938	Q939	R940	K941	F942	L943		F947		G950		W954	P955	P956	P957	P958	N959	I960	R961	R962	I963	I964	Q965	R966	A967	Q968	Q969	T970	R971	H972	I973	D974	K975	T976	S979	D980	L981	T982	I983	K984	D985	I986	V987	L988	D992	L993	N996	Q996	V997	L998	L999	R1001	G1002	K1003																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
N1004	E1005	I1006	T1007	Q1008	N1009	Q1010	Q1011	L1012	D1013	A1014	V1015	T1016	L1017	C1019	C1020	L1021	L1022	PHE	R1023	S1024	R1025	L1026	A1027	T1028	R1029	R1030	V1031	L1032	Q1033	I1034	Y1035	R1036	L1037	T1038	K1039	Q1040																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

Q130	E1196	K1261	T1329	N1393	Y1453	THR	TYR	SER
A131	L1197	K1262	N1330	T1394	M1454	SER	SER	PRO
K132	L1198	T1263	S1331	G1395	P1455	PRO	ASP	ASN
L133	R1199	E1264	F1332	A1396	GLU	TYR	THR	TYR
I134		T1265	D1333	L1397	GLN	GLY	GLY	SER
	M1202	N1266	I1334	M1398	GLN	GLY	GLY	PRO
I138		M1267	I1335	E1399	ALA	ALA	ALA	THR
	K1205	L1268	M1336	C1400	THR	THR	THR	THR
K1144	D1206		S1337	G1401	GLU	SER	SER	SER
S1145	L1207	I1271	L1338	F1402	GLU	PRO	PRO	PRO
V1146	T1208		L1339	A1403	GLU	THR	THR	THR
T1147	M1209	R1274	G1340	E1404	ASP	GLY	GLY	SER
T1148	G1210	V1275	I1341	T1405	GLY	GLY	GLY	PRO
A1149	Q1211	V1276	E1342	V1406	GLN	TYR	TYR	PRO
E1151	V1212	E1277	A1343	E1407	ASP	GLY	GLY	THR
E1152	G1213	N1278	I1344	I1408	GLY	GLY	GLY	SER
I1153	R1214	I1279	A1345	I1409	VAL	PRO	PRO	THR
Y1154	R1215	R1280	E1346	F1410	THR	THR	THR	THR
D1155	I1216	R1281	A1347	E1411	PRO	PRO	PRO	GLY
P1156	K1217	V1282	L1348	A1412	SER	SER	SER	GLY
D1157	Q1218	V1283	G1413	G1414	PRO	PRO	PRO	GLY
P1158	T1219	M1284	K1350	S1415	THR	THR	THR	THR
	F1220	E1351	E1351	A1416	GLY	GLY	GLY	THR
	K1221	R1289	V1352	E1417	VAL	VAL	VAL	THR
S1160	N1222	K1290		L1418	SER	SER	SER	THR
T1161	D1223	V1291	V1355	D1419	GLY	SER	SER	PRO
V1162	L1224	P1292	I1356	G1420	VAL	PRO	PRO	ALA
I1163	F1225	S1293		C1421	GLY	GLY	GLY	THR
P1164	V1226	T1294	D1359	A1422	ALA	ALA	ALA	ASP
E1165	I1227	T1295		G1423	ASP	PRO	PRO	GLY
D1166	W1228	G1296	Y1362	V1424	LEU	LEU	LEU	THR
E1167	S1229	E1297	V1363	I1425	ASP	THR	THR	SER
E1168		Y1298	M1364	E1426	VAL	SER	SER	PRO
I1169	D1233	Y1299	Y1365	N1427	GLY	PRO	PRO	GLY
I1170		K1300	R1366	V1428	ASP	PRO	PRO	THR
Q1171	L1236		H1367	I1429	GLU	THR	THR	SER
L1172	I1237	E1303	M1368	L1430	GLY	SER	SER	PRO
H1173	I1238	W1304	A1369	G1431	LEU	PRO	PRO	GLY
F1174	R1239	V1305	L1370	Q1432	MET	PRO	PRO	THR
S1175	C1240	L1306	L1371	A1433	PHE	THR	THR	THR
L1176	R1241	E1307	V1372	M1434	SER	SER	SER	PRO
LEU	V1242	T1308	D1373	I1435	PRO	PRO	PRO	THR
ASP	V1243	D1309	V1374	P1436	ALA	THR	THR	THR
GLU	R1244	G1310	M1375	G1437	VAL	PRO	PRO	PRO
GLU	P1245	V1311	T1376	T1438	ASP	THR	THR	THR
ALA		N1312	Q1378	G1439	GLY	THR	THR	THR
GLY	SER	L1313	G1379	A1440	SER	PRO	PRO	PRO
GLN	LEU	S1314	G1380	F1441	ASN	PRO	PRO	THR
ASP	ASP	E1315	L1381	D1442	ASP	THR	THR	SER
PHE	ALA	V1316		V1443	ALA	TYR	TYR	TYR
ASP	GLU	M1317	V1384	M1444	PRO	PRO	PRO	PRO
Q1187	THR	T1318	T1385	D1445	MET	THR	THR	THR
Q1188	GLU	V1319	R1386	I1446	GLY	PRO	PRO	THR
S1189			H1387	E1447	GLY	SER	SER	PRO
P1190	E1255	D1323	G1388	F1448	THR	PRO	PRO	THR
K1191	E1256	P1324	T1385	S1449	THR	SER	SER	THR
L1192	D1257	T1325	F1389	V1450	ALA	TYR	TYR	ALA
L1193	H1258	R1326	F1390	L1451	TYR	PRO	PRO	PRO
R1194	M1259	I1327	M1259	K1452	PRO	SER	SER	SER
L1195	L1260	Y1328						

● Molecule 5: DNA-DIRECTED RNA POLYMERASE II 140 KDA POLYPEPTIDE

Chain B:  26% 51% 14% 9%

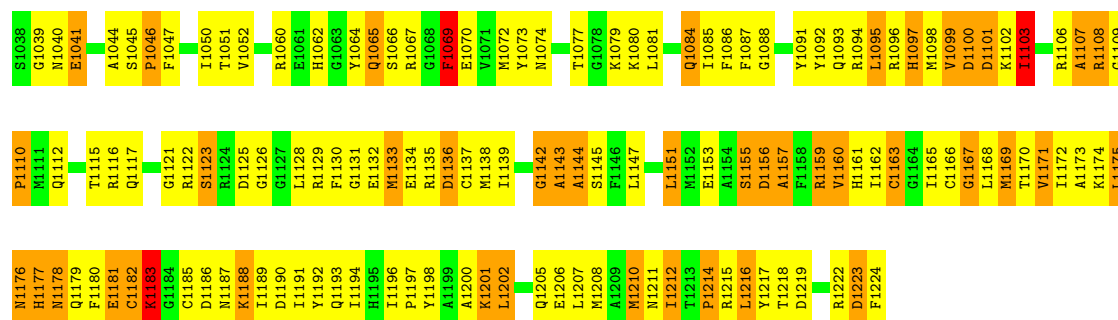
MET	D66	F129	Y190	L254
SER	S67	V130	K191	K257
ASP		D131	L192	L258
LEU	I170	V132	K193	Y259
ALA	GLU	K133	E194	G260
ASN	GLN	LYS	C195	R261
SER	GLY	ARG	P196	E262
GLY	GLN	THR	F197	G263
THR	ALA	TYR	D198	S264
TYR	HIS	GLY	S265	R266
ASP	THR	ILE	A266	R267
GLY	THR	ASP	T204	T268
ASP	GLY	VAL	I205	L269
PRO	ASP	PRO	M206	
TYR	THR	GLY	G207	
GLY	ASN	ARG	S208	L273
F18	ILE	GLY	E209	P274
E19	ARG	LEU	K210	Y275
D20	ARG	LYS	V211	I276
		TYR	K277	
A23	P24	GLY	I213	Q278
I25	T25	LEU	A214	D279
T26	T26	ILE	Q215	I280
A27		ALA	E216	P281
	K94	GLY	R217	I282
E28	I95	GLY	G220	V283
D29	Y96	SER	L284	L284
S30	Y97	ASP	F286	I285
	T98	ASP	R287	A288
V33	K99	ASP	Q223	
I34	P100	SER	Q224	
S35	M101	GLY	V225	
A36	V102	SER	F226	
F37	N103	GLY	K227	
F38	S105	K164	K228	
R39	E104	V165	A229	
E40	D106	F166	A230	
K41	G107	I167	G231	
V44	V108	G168	S232	
S45	H110	R169	P233	
Q46	A111	L170	I234	
Q47	L112	P171	S235	
L48	Y113	I172	H236	
			V237	
F51	P114	R175	A238	
N52	Q115	S176	E239	
O53	E116	K177	I240	
F54	A117	N178	R241	
V55	R118	C179	S242	
	L119	Y180	K243	
D56	L120	L181	L244	
Y57	N121	S182	E245	
L59	L122	E183	K246	
	T123	A184	G247	
	Y124	T185	P248	
	S125	E186	R249	
I62	I62	S187	F250	
I63	I63	G127	T251	
O64	I64	D188		
E65	I65	L189		



• Molecule 5: DNA-DIRECTED RNA POLYMERASE II 140 KDA POLYPEPTIDE

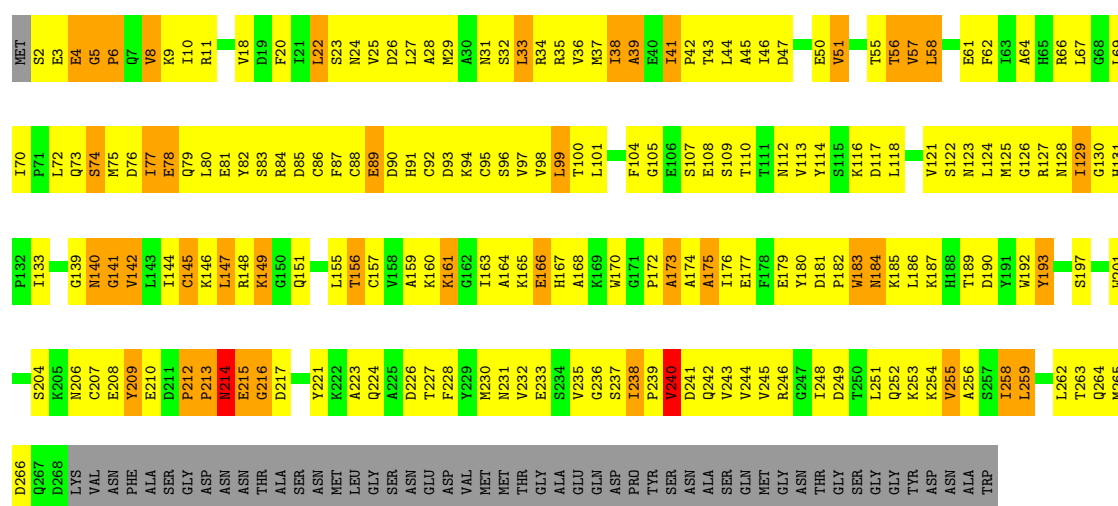
Chain N:

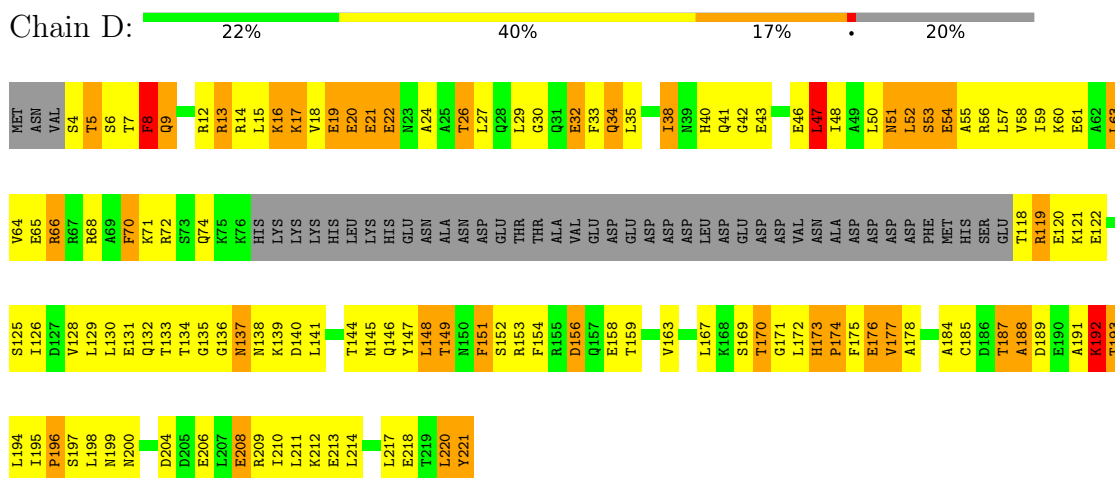




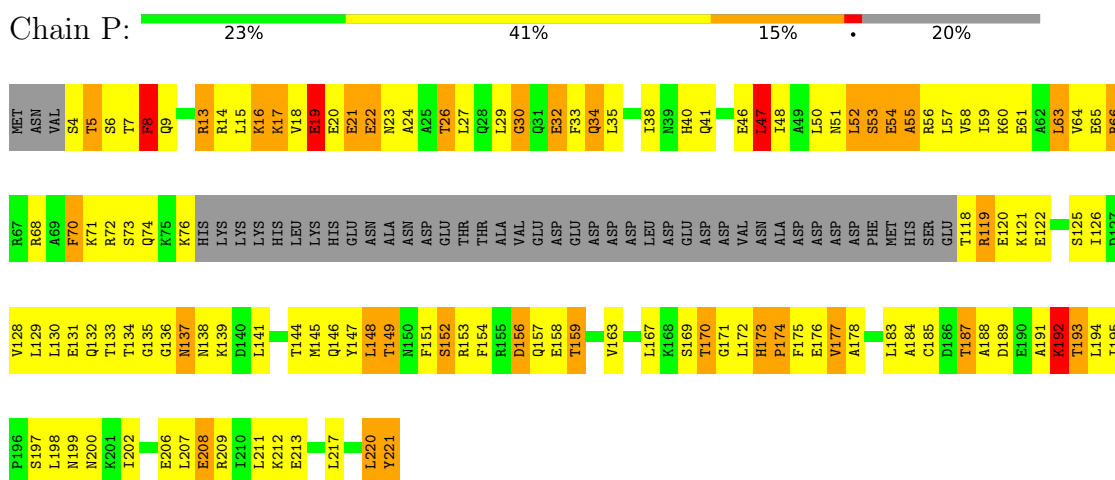
• Molecule 6: DNA-DIRECTED RNA POLYMERASE II 45KDA POLYPEPTIDE

Chain C: 22% 48% 13% 16%

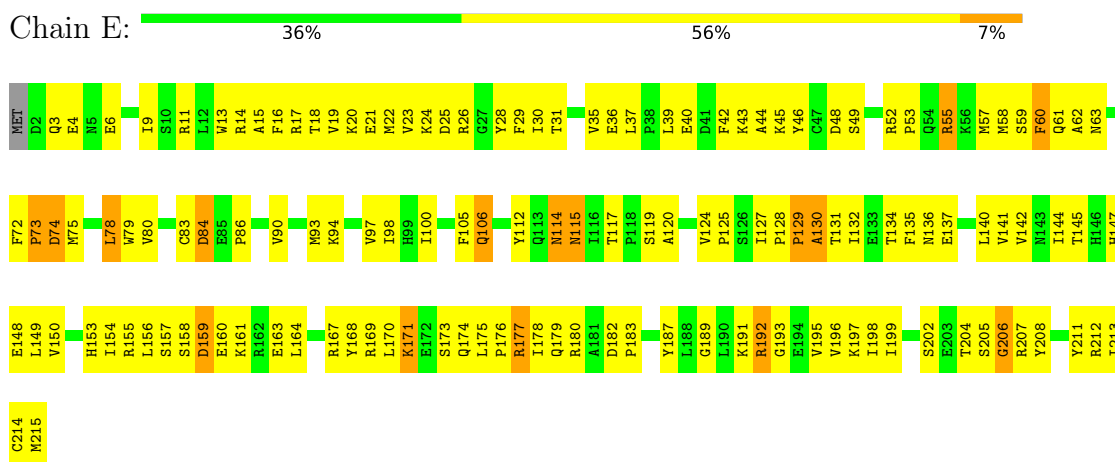




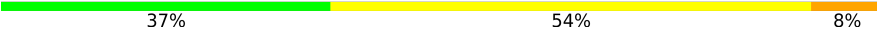
• Molecule 7: DNA-DIRECTED RNA POLYMERASE II 32KDA POLYPEPTIDE

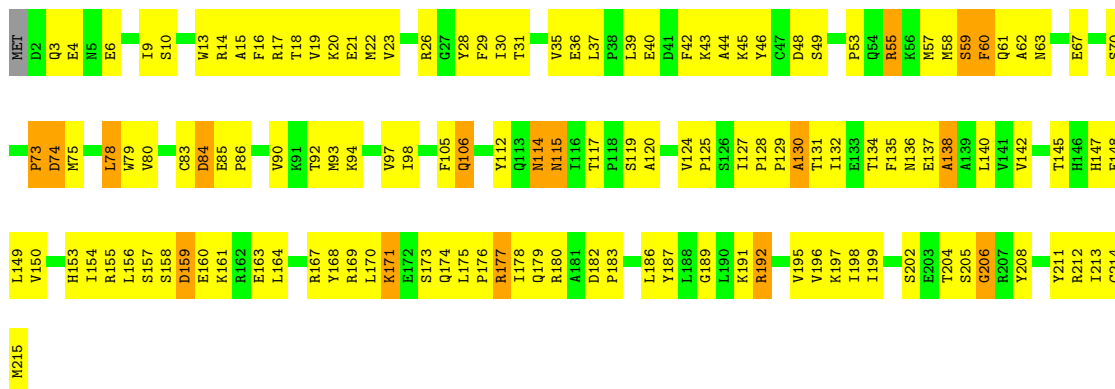


● Molecule 8: DNA-DIRECTED RNA POLYMERASES I, II, AND III 27 KDA POLYPEPTIDE



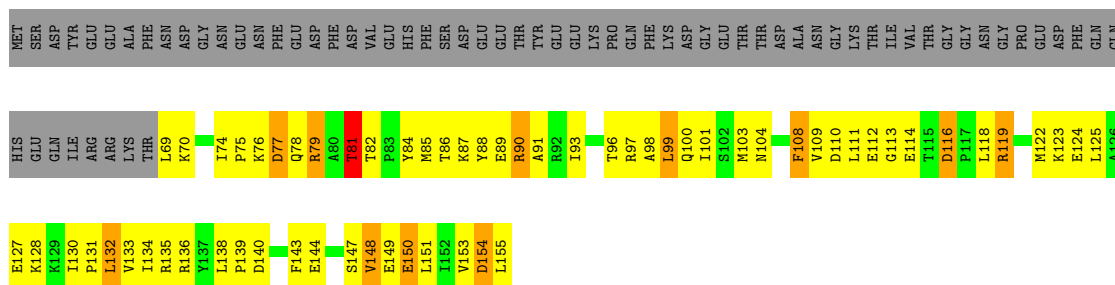
● Molecule 8: DNA-DIRECTED RNA POLYMERASES I, II, AND III 27 KDA POLYPEPTIDE

Chain Q: 

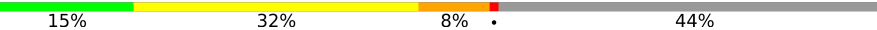


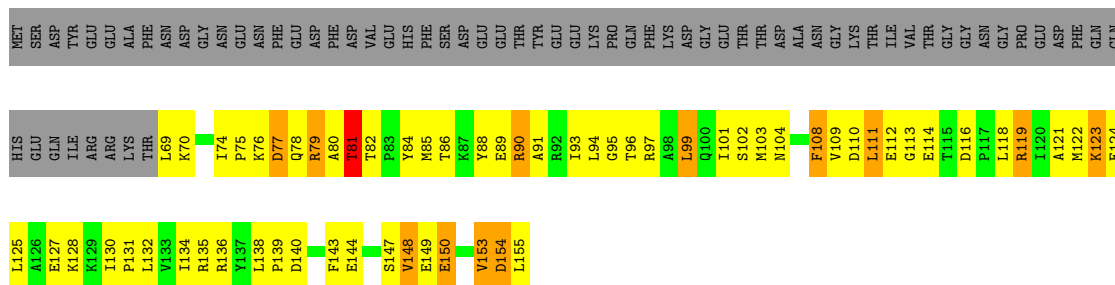
- Molecule 9: DNA-DIRECTED RNA POLYMERASES I, II, AND III 23 KDA POLYPEPTIDE

Chain F: 

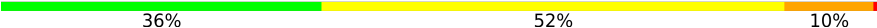


- Molecule 9: DNA-DIRECTED RNA POLYMERASES I, II, AND III 23 KDA POLYPEPTIDE

Chain R: 

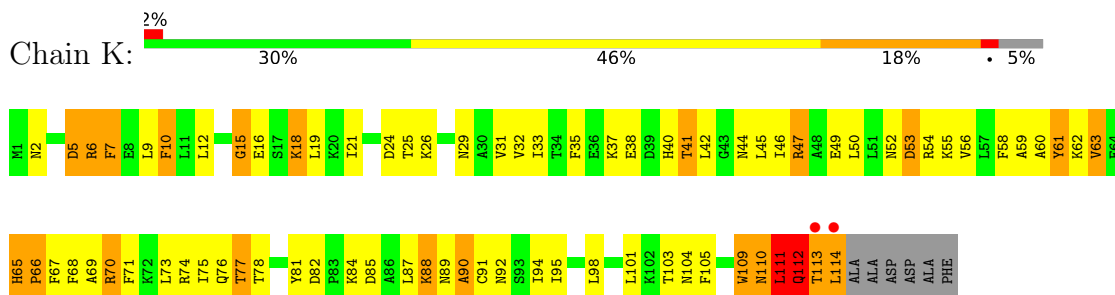
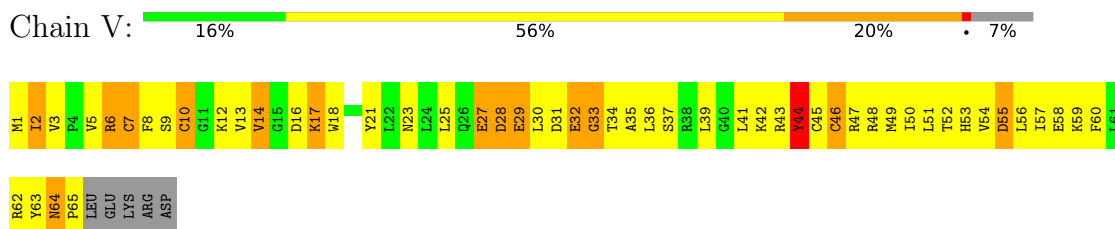
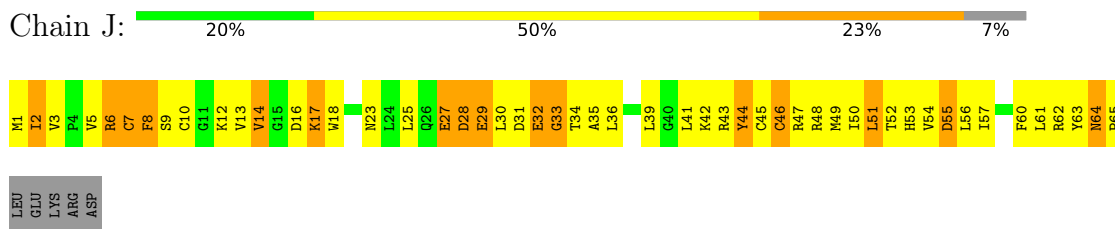
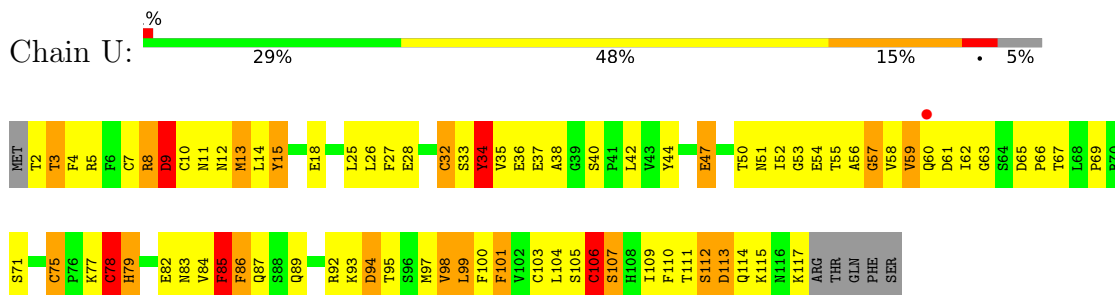
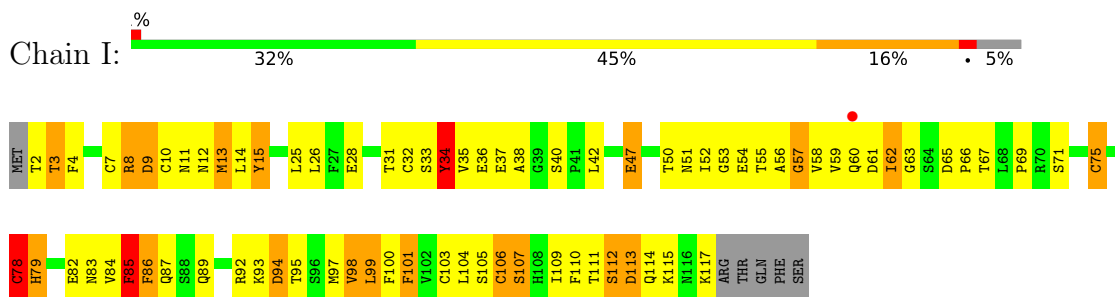


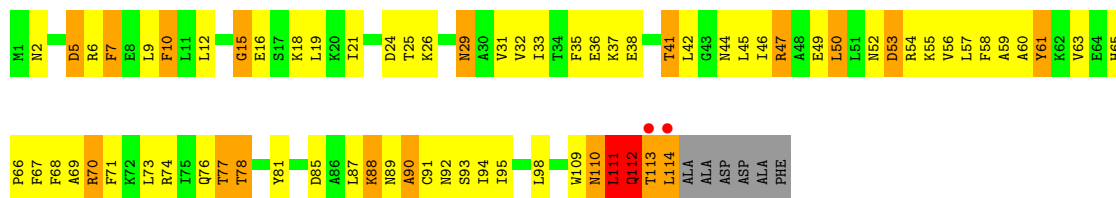
- Molecule 10: DNA-DIRECTED RNA POLYMERASE II 19KDA POLYPEPTIDE

Chain G: 

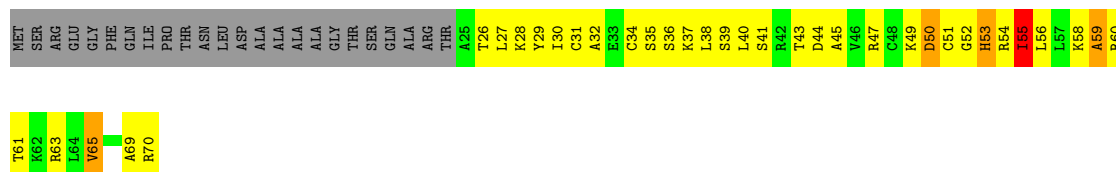




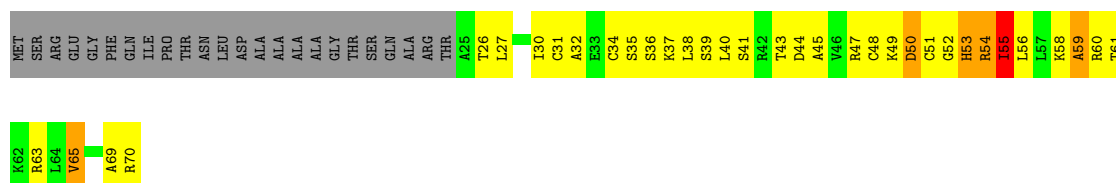
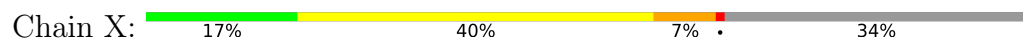




- Molecule 15: DNA-DIRECTED RNA POLYMERASES I, II, AND III 7.7 KDA POLYPEPTIDE



- Molecule 15: DNA-DIRECTED RNA POLYMERASES I, II, AND III 7.7 KDA POLYPEPTIDE



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	394.36Å 221.86Å 283.11Å 90.00° 90.56° 90.00°	Depositor
Resolution (Å)	50.00 – 3.80 50.00 – 3.80	Depositor EDS
% Data completeness (in resolution range)	98.1 (50.00-3.80) 96.7 (50.00-3.80)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.76 (at 3.77Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.257 , 0.275 0.215 , 0.225	Depositor DCC
R_{free} test set	9042 reflections (1.95%)	wwPDB-VP
Wilson B-factor (Å ²)	116.2	Xtriage
Anisotropy	0.457	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 169.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	0.024 for -1/2*h-3/2*k,-1/2*h+1/2*k,-l 0.024 for -1/2*h+3/2*k,1/2*h+1/2*k,-l 0.024 for 1/2*h-3/2*k,-1/2*h-1/2*k,-l 0.020 for 1/2*h+3/2*k,1/2*h-1/2*k,-l 0.308 for -h,-k,l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	63924	wwPDB-VP
Average B, all atoms (Å ²)	104.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.93% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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	1	0.80	0/158	1.68	9/242 (3.7%)
1	4	0.80	0/158	1.68	9/242 (3.7%)
2	2	0.78	0/357	1.55	12/544 (2.2%)
2	5	0.78	0/357	1.55	12/544 (2.2%)
3	3	1.10	1/237 (0.4%)	1.80	9/368 (2.4%)
3	6	1.09	0/237	1.74	8/368 (2.2%)
4	A	0.60	0/11385	1.12	95/15393 (0.6%)
4	M	0.60	0/11385	1.12	102/15393 (0.7%)
5	B	0.57	0/9037	1.06	68/12181 (0.6%)
5	N	0.56	0/9037	1.06	60/12181 (0.5%)
6	C	0.59	0/2138	1.08	14/2896 (0.5%)
6	O	0.60	0/2138	1.07	14/2896 (0.5%)
7	D	0.50	0/1437	1.08	16/1925 (0.8%)
7	P	0.51	0/1437	1.10	19/1925 (1.0%)
8	E	0.51	0/1788	1.00	13/2406 (0.5%)
8	Q	0.52	0/1788	0.99	11/2406 (0.5%)
9	F	0.70	0/716	1.15	4/964 (0.4%)
9	R	0.69	0/716	1.15	6/964 (0.6%)
10	G	0.59	0/1368	1.14	15/1844 (0.8%)
10	S	0.58	0/1368	1.16	14/1844 (0.8%)
11	H	0.48	0/1102	1.02	7/1492 (0.5%)
11	T	0.48	0/1102	1.04	10/1492 (0.7%)
12	I	0.48	0/962	1.03	4/1295 (0.3%)
12	U	0.48	0/962	1.06	5/1295 (0.4%)
13	J	0.58	0/541	0.99	1/727 (0.1%)
13	V	0.61	0/541	1.04	2/727 (0.3%)
14	K	1.32	9/937 (1.0%)	1.44	17/1265 (1.3%)
14	W	1.33	9/937 (1.0%)	1.42	11/1265 (0.9%)
15	L	0.54	0/366	0.93	0/485
15	X	0.56	0/366	0.97	0/485
All	All	0.62	19/65058 (0.0%)	1.11	567/88054 (0.6%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	2	0	2
2	5	0	1
5	B	0	1
5	N	0	1
All	All	0	5

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	W	112	GLN	CA-C	19.96	1.79	1.52
14	K	112	GLN	CA-C	19.65	1.79	1.52
14	W	112	GLN	N-CA	13.63	1.63	1.46
14	K	113	THR	CA-C	13.61	1.70	1.53
14	W	113	THR	CA-C	13.60	1.70	1.53
14	K	112	GLN	N-CA	13.50	1.63	1.46
14	W	113	THR	N-CA	12.90	1.64	1.46
14	K	113	THR	N-CA	11.72	1.64	1.46
14	K	112	GLN	C-N	9.33	1.43	1.33
14	W	111	LEU	CA-C	8.64	1.63	1.53
14	K	111	LEU	CA-C	8.34	1.63	1.53
14	W	112	GLN	CB-CG	7.86	1.76	1.52
14	W	112	GLN	C-N	7.82	1.43	1.33
14	K	112	GLN	CB-CG	7.64	1.75	1.52
14	W	112	GLN	CG-CD	6.22	1.67	1.52
14	K	112	GLN	CG-CD	5.94	1.67	1.52
14	K	111	LEU	C-N	5.70	1.41	1.33
14	W	111	LEU	C-N	5.67	1.41	1.33
3	3	3	G	P-OP2	5.10	1.59	1.49

All (567) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	W	113	THR	N-CA-C	22.31	137.68	108.24
14	K	113	THR	N-CA-C	21.20	137.48	108.23
3	3	2	C	OP2-P-O3'	-17.44	55.69	108.00
4	A	242	PRO	CA-C-N	16.50	131.54	119.66
4	A	242	PRO	C-N-CA	16.50	131.54	119.66
3	6	2	C	OP2-P-O3'	-15.60	61.20	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	N	1185	CYS	N-CA-C	-14.91	95.09	113.28
5	B	1185	CYS	N-CA-C	-14.04	96.15	113.28
5	N	473	MET	N-CA-C	-12.22	98.35	113.02
4	A	452	LYS	N-CA-C	-11.91	98.33	111.07
4	A	56	PRO	N-CA-C	-11.63	102.58	114.68
5	B	473	MET	N-CA-C	-11.63	99.06	113.02
4	M	56	PRO	N-CA-C	-11.44	102.78	114.68
4	M	452	LYS	N-CA-C	-11.29	98.99	111.07
14	W	112	GLN	N-CA-C	11.27	134.81	110.80
14	K	112	GLN	N-CA-C	10.93	134.08	110.80
7	D	26	THR	N-CA-C	-10.91	98.23	112.41
7	P	26	THR	N-CA-C	-10.68	99.56	112.59
4	M	242	PRO	CA-C-N	10.51	131.21	120.38
4	M	242	PRO	C-N-CA	10.51	131.21	120.38
5	B	427	ASP	N-CA-C	-10.41	101.13	114.04
3	6	2	C	C4'-C3'-O3'	10.38	128.56	113.00
5	N	427	ASP	N-CA-C	-10.04	101.59	114.04
3	3	2	C	C4'-C3'-O3'	10.03	128.04	113.00
3	3	1	U	C4'-C3'-O3'	-9.99	98.02	113.00
3	6	1	U	C4'-C3'-O3'	-9.89	98.17	113.00
4	A	466	SER	N-CA-C	9.83	123.39	112.97
3	3	3	G	O5'-P-OP2	9.82	137.47	108.00
3	3	2	C	O3'-P-O5'	-9.75	89.38	104.00
7	D	72	ARG	N-CA-C	-9.75	100.74	111.36
3	6	3	G	O5'-P-OP2	9.57	136.70	108.00
10	S	52	ASP	N-CA-C	9.57	121.47	111.14
14	K	111	LEU	N-CA-C	9.47	127.22	108.18
14	W	111	LEU	N-CA-C	9.47	127.22	108.18
7	P	72	ARG	N-CA-C	-9.46	101.05	111.36
4	M	266	LEU	N-CA-C	-9.29	100.72	111.03
4	M	344	ARG	N-CA-C	-9.28	98.03	110.55
10	G	52	ASP	N-CA-C	9.11	120.97	111.14
2	5	20	DC	C2'-C3'-O3'	-8.85	98.23	111.50
3	6	2	C	O3'-P-O5'	-8.82	90.77	104.00
4	A	288	ALA	N-CA-C	-8.76	100.60	112.94
14	K	114	LEU	CA-C-O	-8.73	105.95	120.80
10	S	62	LEU	CA-C-N	-8.72	108.94	119.84
10	S	62	LEU	C-N-CA	-8.72	108.94	119.84
4	M	288	ALA	N-CA-C	-8.70	100.67	112.94
5	N	1009	ASP	N-CA-C	-8.70	103.18	113.88
1	4	4	DT	C2'-C3'-O3'	8.62	124.43	111.50
11	T	80	ARG	CA-C-N	8.60	129.23	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	T	80	ARG	C-N-CA	8.60	129.23	120.38
7	D	54	GLU	N-CA-C	-8.59	101.65	112.90
4	A	266	LEU	N-CA-C	-8.57	101.51	111.03
2	5	15	DT	C2'-C3'-O3'	8.56	124.34	111.50
2	2	15	DT	C2'-C3'-O3'	8.56	124.34	111.50
2	2	24	DG	C2'-C3'-O3'	-8.53	98.71	111.50
2	2	20	DC	C2'-C3'-O3'	-8.39	98.91	111.50
14	W	114	LEU	CA-C-O	-8.38	106.55	120.80
1	1	4	DT	C2'-C3'-O3'	8.37	124.05	111.50
2	5	24	DG	C2'-C3'-O3'	-8.35	98.98	111.50
11	H	80	ARG	CA-C-N	8.34	128.97	120.38
11	H	80	ARG	C-N-CA	8.34	128.97	120.38
10	S	22	MET	N-CA-C	-8.31	101.63	112.68
7	P	54	GLU	N-CA-C	-8.21	103.39	113.41
4	A	567	LYS	CA-C-N	-8.20	109.59	119.84
4	A	567	LYS	C-N-CA	-8.20	109.59	119.84
6	O	39	ALA	N-CA-C	8.17	124.42	113.97
4	A	60	SER	N-CA-C	8.15	119.32	108.07
4	A	344	ARG	N-CA-C	-8.14	98.43	110.48
4	A	1243	VAL	N-CA-C	8.10	120.00	108.42
4	A	291	GLU	N-CA-C	-8.06	103.65	113.97
4	M	1243	VAL	N-CA-C	8.03	119.90	108.42
5	B	111	ALA	N-CA-C	-8.02	96.98	109.25
10	G	62	LEU	CA-C-N	-7.93	109.92	119.84
10	G	62	LEU	C-N-CA	-7.93	109.92	119.84
4	M	567	LYS	CA-C-N	-7.85	110.02	119.84
4	M	567	LYS	C-N-CA	-7.85	110.02	119.84
5	B	1177	HIS	N-CA-C	-7.84	104.66	112.97
4	M	928	LEU	N-CA-C	-7.83	102.68	111.14
14	K	113	THR	CB-CA-C	-7.83	97.75	113.80
6	C	41	ILE	CA-C-N	7.78	128.25	119.93
6	C	41	ILE	C-N-CA	7.78	128.25	119.93
4	M	982	THR	N-CA-C	-7.75	99.05	110.52
4	M	60	SER	N-CA-C	7.74	118.17	108.19
5	B	468	GLU	CB-CA-C	-7.71	107.68	116.63
5	B	1009	ASP	N-CA-C	-7.71	104.40	113.88
4	M	1422	ARG	N-CA-C	-7.66	103.48	114.12
10	G	22	MET	N-CA-C	-7.61	101.23	111.96
4	A	982	THR	N-CA-C	-7.59	99.24	110.48
6	C	173	ALA	N-CA-C	7.58	119.18	111.07
5	N	1177	HIS	N-CA-C	-7.58	104.44	112.93
2	2	26	DC	C4'-C3'-O3'	-7.56	98.66	110.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	S	2	PHE	N-CA-C	-7.48	99.41	110.48
8	E	149	LEU	N-CA-C	7.44	119.18	111.14
4	A	1261	LYS	N-CA-C	-7.42	105.14	114.56
6	C	38	ILE	N-CA-C	7.41	117.94	110.23
2	5	27	DA	O3'-P-O5'	-7.41	92.89	104.00
4	A	698	GLN	N-CA-C	-7.40	104.64	112.93
4	M	513	SER	CA-C-N	7.39	127.03	119.56
4	M	513	SER	C-N-CA	7.39	127.03	119.56
10	G	127	PRO	CA-C-N	7.39	127.84	119.93
10	G	127	PRO	C-N-CA	7.39	127.84	119.93
5	N	681	TRP	N-CA-C	-7.34	102.45	111.40
9	F	127	GLU	N-CA-C	-7.33	103.91	112.92
4	M	1261	LYS	N-CA-C	-7.31	105.27	114.56
4	A	513	SER	CA-C-N	7.28	126.91	119.56
4	A	513	SER	C-N-CA	7.28	126.91	119.56
4	A	1422	ARG	N-CA-C	-7.27	104.02	114.12
5	N	111	ALA	N-CA-C	-7.26	97.42	108.67
2	2	27	DA	O3'-P-O5'	-7.24	93.14	104.00
7	P	38	ILE	N-CA-C	7.24	118.24	108.11
4	M	598	LEU	N-CA-C	-7.23	103.08	113.21
10	G	30	LEU	N-CA-C	-7.22	102.21	111.02
14	K	114	LEU	N-CA-C	7.22	131.21	111.00
10	S	127	PRO	CA-C-N	7.19	127.63	119.93
10	S	127	PRO	C-N-CA	7.19	127.63	119.93
6	O	41	ILE	CA-C-N	7.18	127.23	119.90
6	O	41	ILE	C-N-CA	7.18	127.23	119.90
5	N	805	THR	N-CA-C	7.16	118.95	108.86
1	4	6	DC	C4'-C3'-O3'	7.13	120.69	110.00
5	B	294	ASP	N-CA-C	-7.09	101.69	110.41
4	M	227	VAL	N-CA-C	7.09	117.64	111.90
6	C	39	ALA	N-CA-C	7.09	123.04	113.97
11	T	85	GLY	N-CA-C	-7.08	104.92	113.99
1	4	3	DG	C5'-C4'-C3'	-7.08	104.28	114.90
4	A	67	CYS	N-CA-C	-7.08	98.85	109.83
4	M	864	ILE	N-CA-C	-7.05	105.91	112.96
1	1	3	DG	C5'-C4'-C3'	-7.04	104.34	114.90
4	M	1064	VAL	N-CA-C	6.99	118.59	110.62
2	2	17	DT	C4'-C3'-O3'	6.99	120.48	110.00
10	G	2	PHE	N-CA-C	-6.99	100.13	110.48
5	N	296	GLU	N-CA-C	-6.99	103.42	112.23
10	G	129	SER	N-CA-C	6.99	117.49	108.34
9	R	127	GLU	N-CA-C	-6.98	104.34	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	W	113	THR	CB-CA-C	-6.96	97.61	112.78
5	N	363	HIS	N-CA-C	-6.96	101.56	110.19
4	M	291	GLU	N-CA-C	-6.96	104.68	113.72
4	M	1138	ILE	CB-CA-C	-6.96	105.80	111.71
4	A	1262	LYS	N-CA-C	-6.95	104.27	112.89
5	N	294	ASP	N-CA-C	-6.91	101.63	110.19
14	W	114	LEU	N-CA-C	6.89	130.30	111.00
1	4	2	DA	C2'-C3'-O3'	6.89	121.83	111.50
5	B	296	GLU	N-CA-C	-6.89	103.55	112.23
4	M	293	GLU	N-CA-C	-6.88	105.04	113.50
2	5	26	DC	C2'-C3'-O3'	-6.87	101.20	111.50
5	B	66	ASP	N-CA-C	-6.83	104.07	112.88
5	N	292	ILE	N-CA-C	6.82	121.19	112.67
5	B	99	LYS	CA-C-N	6.81	128.35	119.84
5	B	99	LYS	C-N-CA	6.81	128.35	119.84
1	1	6	DC	C4'-C3'-O3'	6.79	120.19	110.00
2	5	26	DC	C4'-C3'-O3'	-6.79	99.81	110.00
9	F	77	ASP	N-CA-C	-6.79	100.42	110.46
4	M	729	ALA	N-CA-C	-6.79	103.81	111.14
4	A	227	VAL	N-CA-C	6.78	117.64	111.81
4	A	598	LEU	N-CA-C	-6.78	103.72	113.21
5	N	99	LYS	CA-C-N	6.76	128.29	119.84
5	N	99	LYS	C-N-CA	6.76	128.29	119.84
8	Q	173	SER	N-CA-C	6.74	118.63	111.28
4	A	293	GLU	N-CA-C	-6.72	105.23	113.50
7	D	38	ILE	N-CA-C	6.72	117.58	108.17
4	M	698	GLN	N-CA-C	-6.71	105.49	113.21
1	1	2	DA	C2'-C3'-O3'	6.71	121.56	111.50
4	M	337	ARG	N-CA-C	6.66	119.54	111.82
4	M	67	CYS	N-CA-C	-6.62	99.57	109.83
10	S	129	SER	N-CA-C	6.62	118.19	108.86
4	M	861	GLY	N-CA-C	-6.61	105.98	115.64
4	A	467	THR	N-CA-C	6.61	119.94	109.50
7	D	171	GLY	N-CA-C	-6.61	106.81	115.47
6	O	5	GLY	CA-C-N	6.59	128.08	119.84
6	O	5	GLY	C-N-CA	6.59	128.08	119.84
4	A	928	LEU	N-CA-C	-6.59	104.17	111.36
8	Q	149	LEU	N-CA-C	6.57	118.24	111.14
2	5	17	DT	C4'-C3'-O3'	6.57	119.85	110.00
4	A	1155	ASP	CA-C-N	6.56	126.27	119.64
4	A	1155	ASP	C-N-CA	6.56	126.27	119.64
4	M	539	THR	N-CA-C	6.55	119.38	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2	26	DC	C2'-C3'-O3'	-6.53	101.70	111.50
5	N	66	ASP	N-CA-C	-6.52	103.74	112.94
5	B	213	ILE	N-CA-C	6.50	117.96	108.53
5	B	681	TRP	N-CA-C	-6.50	102.85	111.24
2	5	10	DA	O5'-C5'-C4'	6.49	120.54	110.80
4	A	864	ILE	N-CA-C	-6.49	106.47	112.96
12	U	32	CYS	N-CA-C	-6.49	103.46	108.78
5	N	1173	ALA	N-CA-C	6.49	118.49	109.15
8	E	173	SER	N-CA-C	6.48	118.35	111.28
5	N	392	ARG	N-CA-C	-6.46	106.03	114.04
4	M	1262	LYS	N-CA-C	-6.45	104.90	112.89
5	N	882	THR	N-CA-C	6.45	118.88	111.02
4	A	320	ARG	CA-C-N	6.44	127.89	119.84
4	A	320	ARG	C-N-CA	6.44	127.89	119.84
6	O	38	ILE	N-CA-C	6.44	116.93	110.23
4	A	337	ARG	N-CA-C	6.43	119.28	111.82
4	A	1275	GLY	N-CA-C	6.42	119.92	111.70
4	A	729	ALA	N-CA-C	-6.40	104.22	111.14
4	A	539	THR	N-CA-C	6.40	119.14	108.96
5	N	112	LEU	N-CA-C	6.40	119.95	110.48
5	N	472	ALA	N-CA-C	6.39	118.91	108.55
10	S	42	PHE	N-CA-C	-6.39	106.69	114.75
5	B	606	LYS	N-CA-C	-6.38	105.51	113.55
4	M	481	ASP	N-CA-C	-6.37	99.73	109.41
5	B	363	HIS	N-CA-C	-6.35	101.59	110.35
4	M	227	VAL	CB-CA-C	-6.32	105.24	111.30
4	A	861	GLY	N-CA-C	-6.31	106.43	115.64
4	M	360	GLU	N-CA-C	-6.31	102.39	110.53
6	O	173	ALA	N-CA-C	6.31	117.82	111.07
8	E	171	LYS	N-CA-C	-6.29	100.67	110.42
5	B	292	ILE	N-CA-C	6.29	120.53	112.67
5	N	1142	GLY	N-CA-C	-6.29	106.57	115.43
5	B	805	THR	N-CA-C	6.27	117.70	108.86
10	S	19	GLY	CA-C-N	6.27	127.68	119.84
10	S	19	GLY	C-N-CA	6.27	127.68	119.84
14	K	111	LEU	CA-C-O	-6.22	110.98	122.62
4	A	472	LEU	N-CA-C	6.21	117.72	111.07
5	B	574	SER	CA-C-N	6.21	127.60	119.84
5	B	574	SER	C-N-CA	6.21	127.60	119.84
4	M	1275	GLY	N-CA-C	6.21	119.64	111.70
14	W	111	LEU	CA-C-O	-6.21	111.01	122.62
9	R	77	ASP	N-CA-C	-6.20	100.81	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	6	DC	OP2-P-O3'	6.20	126.59	108.00
5	B	882	THR	N-CA-C	6.20	118.58	111.02
7	P	171	GLY	N-CA-C	-6.20	107.12	115.36
11	T	12	VAL	N-CA-C	6.19	116.42	108.12
1	1	6	DC	OP2-P-O3'	6.19	126.57	108.00
6	C	258	ILE	N-CA-C	-6.19	105.02	111.58
5	B	1142	GLY	N-CA-C	-6.18	106.72	115.43
5	N	361	LEU	CA-C-N	6.18	126.64	119.47
5	N	361	LEU	C-N-CA	6.18	126.64	119.47
5	N	213	ILE	N-CA-C	6.16	117.47	108.53
8	Q	63	ASN	CA-C-N	6.15	125.91	119.76
8	Q	63	ASN	C-N-CA	6.15	125.91	119.76
4	A	750	GLY	N-CA-C	-6.14	106.23	115.32
5	N	837	ASP	N-CA-C	6.13	120.10	111.52
8	Q	4	GLU	N-CA-C	6.13	117.65	110.97
6	C	183	TRP	N-CA-C	-6.12	97.73	108.20
11	T	109	LYS	CB-CA-C	-6.12	109.50	116.54
4	M	467	THR	N-CA-C	6.11	119.16	109.50
5	B	472	ALA	N-CA-C	6.11	118.45	108.55
5	N	292	ILE	CB-CA-C	-6.11	107.90	113.70
4	M	311	GLN	N-CA-C	6.11	123.30	109.81
4	M	320	ARG	CA-C-N	6.10	127.47	119.84
4	M	320	ARG	C-N-CA	6.10	127.47	119.84
5	B	837	ASP	N-CA-C	6.10	120.28	111.56
4	M	472	LEU	N-CA-C	6.09	117.72	111.14
4	A	1311	VAL	N-CA-C	6.09	117.72	107.18
4	A	1445	ILE	CB-CA-C	-6.09	103.52	111.25
7	P	194	LEU	N-CA-C	-6.09	105.85	113.28
4	A	1138	ILE	CB-CA-C	-6.08	106.54	111.71
4	A	476	SER	CA-C-N	-6.07	112.25	119.84
4	A	476	SER	C-N-CA	-6.07	112.25	119.84
7	P	55	ALA	N-CA-C	-6.06	104.00	111.40
7	D	16	LYS	N-CA-C	6.05	119.01	109.39
10	G	45	ILE	N-CA-C	-6.05	98.98	108.23
10	G	19	GLY	CA-C-N	6.04	127.39	119.84
10	G	19	GLY	C-N-CA	6.04	127.39	119.84
9	R	108	PHE	N-CA-C	6.03	119.69	112.93
3	3	1	U	N1-C1'-C2'	6.03	121.04	112.00
6	C	96	SER	N-CA-C	6.03	118.23	109.07
12	U	112	SER	N-CA-C	-6.03	105.24	112.59
4	A	227	VAL	CB-CA-C	-6.02	104.63	111.55
4	A	513	SER	N-CA-C	6.01	118.34	109.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	I	112	SER	N-CA-C	-6.01	105.26	112.59
11	T	63	LEU	N-CA-C	-6.01	105.03	113.20
4	M	590	ARG	N-CA-C	5.99	118.37	108.48
4	M	562	THR	CA-C-N	5.99	126.01	119.90
4	M	562	THR	C-N-CA	5.99	126.01	119.90
4	M	1403	GLU	N-CA-C	5.99	123.55	110.80
7	D	176	GLU	N-CA-C	-5.98	104.68	111.14
11	H	85	GLY	N-CA-C	-5.98	105.31	113.27
5	B	1173	ALA	N-CA-C	5.97	117.75	109.15
8	E	4	GLU	N-CA-C	5.97	117.46	111.07
5	B	112	LEU	N-CA-C	5.97	119.99	109.96
4	A	311	GLN	N-CA-C	5.97	123.00	109.81
4	M	1291	VAL	CA-C-N	5.96	127.28	119.84
4	M	1291	VAL	C-N-CA	5.96	127.28	119.84
8	Q	171	LYS	N-CA-C	-5.96	100.48	109.95
5	N	1025	HIS	N-CA-C	-5.95	103.97	111.11
4	M	750	GLY	N-CA-C	-5.94	107.06	115.43
4	M	1155	ASP	CA-C-N	5.93	125.63	119.64
4	M	1155	ASP	C-N-CA	5.93	125.63	119.64
4	A	453	MET	N-CA-C	5.93	119.62	112.38
8	E	52	ARG	CA-C-N	5.93	125.69	119.76
8	E	52	ARG	C-N-CA	5.93	125.69	119.76
4	A	560	ILE	CA-C-N	5.92	125.86	119.76
4	A	560	ILE	C-N-CA	5.92	125.86	119.76
4	M	950	GLY	N-CA-C	-5.91	107.66	114.69
7	P	8	PHE	N-CA-C	5.90	123.36	110.80
5	N	1210	MET	N-CA-C	-5.89	106.00	112.72
4	A	445	ASN	N-CA-C	5.89	117.47	108.52
11	H	63	LEU	N-CA-C	-5.89	105.19	113.20
6	C	5	GLY	CA-C-N	5.89	127.20	119.84
6	C	5	GLY	C-N-CA	5.89	127.20	119.84
4	M	778	GLY	N-CA-C	-5.89	105.24	112.77
12	U	85	PHE	N-CA-C	5.89	119.17	110.46
5	B	424	LEU	N-CA-C	-5.88	104.46	111.69
5	N	395	GLN	N-CA-C	-5.87	102.79	110.53
4	A	491	VAL	N-CA-C	5.86	114.41	107.73
14	K	113	THR	CA-C-N	5.86	132.24	121.70
14	K	113	THR	C-N-CA	5.86	132.24	121.70
9	F	108	PHE	N-CA-C	5.85	119.48	112.93
4	M	560	ILE	CA-C-N	5.85	125.78	119.76
4	M	560	ILE	C-N-CA	5.85	125.78	119.76
2	5	25	DT	N1-C1'-C2'	5.84	122.26	113.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	360	GLU	N-CA-C	-5.84	102.83	110.53
14	K	77	THR	N-CA-C	5.83	117.08	108.86
3	6	1	U	N1-C1'-C2'	5.82	120.73	112.00
6	C	38	ILE	CB-CA-C	-5.82	104.25	111.70
5	N	468	GLU	CB-CA-C	-5.82	108.19	116.34
2	2	10	DA	O5'-C5'-C4'	5.81	119.52	110.80
4	A	481	ASP	N-CA-C	-5.81	100.93	109.18
5	B	545	ILE	N-CA-C	5.80	116.47	108.12
3	3	10	A	N9-C1'-C2'	-5.79	103.31	112.00
4	M	425	GLN	N-CA-C	-5.78	99.47	108.90
5	N	574	SER	CA-C-N	5.78	127.07	119.84
5	N	574	SER	C-N-CA	5.78	127.07	119.84
5	B	1053	GLU	N-CA-C	-5.78	104.98	111.28
8	E	63	ASN	CA-C-N	5.78	125.54	119.76
8	E	63	ASN	C-N-CA	5.78	125.54	119.76
10	S	30	LEU	N-CA-C	-5.78	103.97	111.02
2	2	15	DT	C5'-C4'-C3'	5.78	123.56	114.90
4	A	552	TRP	N-CA-C	5.78	117.66	111.36
5	B	1107	ALA	N-CA-C	-5.77	97.60	107.23
5	B	949	VAL	N-CA-C	-5.75	101.46	110.09
5	N	1201	LYS	N-CA-C	-5.75	104.00	111.02
4	M	1344	GLY	N-CA-C	-5.75	105.83	112.50
5	N	424	LEU	N-CA-C	-5.75	104.62	111.69
4	M	445	ASN	N-CA-C	5.75	117.25	108.52
4	A	1291	VAL	CA-C-N	5.73	127.00	119.84
4	A	1291	VAL	C-N-CA	5.73	127.00	119.84
5	N	949	VAL	N-CA-C	-5.72	101.50	110.09
4	A	158	PRO	N-CA-C	-5.72	106.55	114.27
2	2	25	DT	C4'-C3'-O3'	-5.72	101.42	110.00
4	A	950	GLY	N-CA-C	-5.70	107.91	114.69
4	M	246	VAL	N-CA-C	-5.70	105.54	111.58
13	V	44	TYR	N-CA-C	5.69	119.03	111.75
7	D	188	ALA	N-CA-C	-5.69	105.17	111.71
7	D	173	HIS	CA-C-N	5.69	126.95	119.84
7	D	173	HIS	C-N-CA	5.69	126.95	119.84
4	M	552	TRP	N-CA-C	5.68	117.56	111.36
13	V	42	LYS	N-CA-C	5.68	118.57	111.24
8	E	159	ASP	N-CA-C	-5.68	105.12	112.68
2	2	21	DC	C2'-C3'-O3'	-5.67	102.99	111.50
12	U	18	GLU	N-CA-C	5.67	118.72	109.59
4	A	1399	ARG	N-CA-C	-5.66	105.20	111.71
7	P	34	GLN	N-CA-C	-5.66	103.23	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	236	LEU	N-CA-C	5.66	117.90	109.25
4	A	710	LEU	N-CA-C	-5.65	105.21	111.71
5	B	771	SER	N-CA-C	-5.64	106.99	112.97
6	O	246	ARG	N-CA-C	-5.64	105.22	111.71
8	E	55	ARG	N-CA-C	5.63	117.23	111.14
14	K	112	GLN	N-CA-CB	-5.63	100.97	110.49
5	B	896	ASP	N-CA-C	-5.63	106.49	113.19
11	H	81	PRO	N-CA-C	5.63	117.57	110.70
2	5	25	DT	C4'-C3'-O3'	-5.63	101.56	110.00
4	A	425	GLN	N-CA-C	-5.63	99.73	108.90
4	M	158	PRO	N-CA-C	-5.62	106.68	114.27
4	M	776	ALA	N-CA-C	5.62	118.76	109.94
4	A	229	SER	N-CA-C	5.62	116.59	107.32
5	N	1223	ASP	CB-CA-C	-5.62	109.11	115.79
5	N	606	LYS	N-CA-C	-5.62	106.47	113.55
4	A	998	LEU	N-CA-C	5.61	118.68	109.76
4	M	466	SER	N-CA-C	5.61	122.75	110.80
2	5	15	DT	C5'-C4'-C3'	5.60	123.30	114.90
14	W	113	THR	CA-C-N	5.60	131.77	121.70
14	W	113	THR	C-N-CA	5.60	131.77	121.70
5	N	748	ILE	N-CA-C	-5.59	104.21	112.04
7	P	16	LYS	N-CA-C	5.59	118.28	109.39
5	B	395	GLN	N-CA-C	-5.59	102.62	110.50
10	S	65	ASP	N-CA-C	-5.59	100.81	109.24
4	A	683	ILE	N-CA-C	-5.58	106.26	111.45
1	4	1	DA	OP2-P-O3'	5.57	124.72	108.00
5	N	1163	CYS	N-CA-C	-5.57	100.16	109.24
1	1	1	DA	O3'-P-O5'	-5.57	95.64	104.00
1	4	1	DA	O3'-P-O5'	-5.57	95.64	104.00
4	A	1376	THR	N-CA-C	5.57	120.08	112.68
4	A	776	ALA	N-CA-C	5.56	118.68	109.94
5	N	277	LYS	N-CA-C	5.56	118.06	111.33
1	4	6	DC	C5'-C4'-C3'	-5.56	106.56	114.90
14	W	112	GLN	N-CA-CB	-5.56	101.09	110.49
5	B	840	ILE	CB-CA-C	-5.56	103.28	110.84
4	A	1424	VAL	N-CA-C	-5.55	104.46	110.23
4	M	468	PHE	N-CA-C	-5.55	101.43	109.59
6	O	155	LEU	CB-CA-C	-5.55	107.46	114.40
4	M	87	ALA	N-CA-C	-5.54	105.31	112.68
10	G	65	ASP	N-CA-C	-5.53	100.66	109.23
12	I	85	PHE	N-CA-C	5.53	118.64	110.46
5	B	165	VAL	N-CA-C	5.52	116.43	108.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	P	169	SER	N-CA-C	-5.52	105.91	113.30
4	M	453	MET	N-CA-C	5.51	119.11	112.38
5	N	616	ILE	N-CA-C	5.51	116.06	108.12
5	N	1101	ASP	N-CA-C	-5.51	105.91	113.30
4	A	294	SER	N-CA-C	-5.51	106.06	112.89
5	B	1020	ARG	N-CA-C	-5.50	105.44	111.82
7	D	8	PHE	N-CA-C	5.50	122.51	110.80
4	M	938	LYS	N-CA-C	-5.50	104.68	111.33
1	1	1	DA	OP2-P-O3'	5.50	124.49	108.00
8	Q	55	ARG	N-CA-C	5.50	117.07	111.14
4	A	173	THR	N-CA-C	-5.49	103.29	110.53
5	B	1071	VAL	N-CA-C	-5.49	101.98	109.55
4	M	1434	ALA	N-CA-C	5.49	116.73	109.93
4	M	173	THR	N-CA-C	-5.48	103.30	110.53
4	A	1403	GLU	N-CA-C	5.48	122.47	110.80
5	B	872	GLU	N-CA-C	-5.47	103.47	110.53
8	Q	177	ARG	N-CA-C	5.47	118.50	109.85
10	G	145	VAL	N-CA-C	5.47	117.21	108.89
5	N	628	THR	N-CA-C	-5.47	107.25	114.31
5	B	413	LEU	N-CA-C	-5.47	105.42	111.71
4	A	524	VAL	N-CA-C	5.46	115.49	108.82
4	M	710	LEU	N-CA-C	-5.46	105.43	111.71
2	5	21	DC	C2'-C3'-O3'	-5.46	103.31	111.50
5	N	1107	ALA	N-CA-C	-5.46	98.11	107.23
4	M	244	PRO	N-CA-C	5.46	117.36	110.70
2	2	25	DT	N1-C1'-C2'	5.45	121.68	113.50
5	B	1075	GLY	N-CA-C	5.45	120.51	113.27
14	K	75	ILE	N-CA-C	5.44	115.95	108.12
4	M	82	GLY	N-CA-C	-5.43	103.05	112.06
4	A	1113	THR	CA-C-N	-5.43	113.06	119.84
4	A	1113	THR	C-N-CA	-5.43	113.06	119.84
4	M	237	THR	N-CA-C	-5.43	106.71	113.55
5	B	1112	GLN	CA-C-N	-5.42	117.40	122.66
5	B	1112	GLN	C-N-CA	-5.42	117.40	122.66
1	1	6	DC	C5'-C4'-C3'	-5.41	106.78	114.90
5	B	748	ILE	N-CA-C	-5.41	104.98	112.50
8	E	84	ASP	N-CA-C	-5.41	106.72	113.15
5	B	976	ILE	N-CA-C	5.40	117.31	111.58
12	I	31	THR	N-CA-C	-5.40	105.81	112.72
4	A	236	LEU	N-CA-C	5.39	117.49	109.25
5	B	1223	ASP	CB-CA-C	-5.39	109.38	115.79
4	M	215	SER	N-CA-C	5.36	117.46	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6	3	G	C4'-C3'-O3'	-5.36	104.96	113.00
7	D	169	SER	N-CA-C	-5.36	106.12	113.30
5	N	1151	LEU	N-CA-C	5.35	117.20	111.36
3	6	10	A	N9-C1'-C2'	-5.35	103.97	112.00
5	B	1008	PRO	N-CA-C	5.35	118.71	111.22
5	B	851	PHE	N-CA-C	5.34	119.38	112.86
4	A	682	THR	N-CA-C	-5.34	106.27	112.89
5	N	687	GLU	N-CA-C	-5.34	104.19	111.56
5	B	366	GLN	N-CA-C	-5.34	106.00	112.88
5	B	964	VAL	N-CA-C	5.33	115.94	108.17
7	P	173	HIS	CA-C-N	5.33	126.50	119.84
7	P	173	HIS	C-N-CA	5.33	126.50	119.84
5	B	732	SER	N-CA-C	5.32	115.31	108.34
4	M	983	ILE	N-CA-C	-5.32	104.59	112.04
3	3	2	C	OP1-P-O3'	5.32	123.96	108.00
4	A	763	ALA	N-CA-C	5.32	117.26	108.48
4	M	1010	ALA	N-CA-C	-5.32	105.56	111.36
4	M	682	THR	N-CA-C	-5.31	106.06	112.54
4	A	468	PHE	N-CA-C	-5.30	101.79	109.59
11	H	129	TYR	N-CA-C	5.30	119.72	112.88
5	B	1078	GLY	N-CA-C	-5.29	107.38	115.00
5	B	616	ILE	N-CA-C	5.29	115.74	108.12
4	A	31	SER	N-CA-C	5.29	117.11	110.24
4	M	524	VAL	N-CA-C	5.28	115.26	108.82
4	M	1072	ILE	CB-CA-C	-5.28	105.01	111.92
4	M	1293	SER	N-CA-C	-5.28	102.36	110.01
5	B	903	VAL	N-CA-C	5.27	120.30	109.34
14	K	65	HIS	CA-C-N	5.26	126.42	119.84
14	K	65	HIS	C-N-CA	5.26	126.42	119.84
4	M	476	SER	CA-C-N	-5.26	113.26	119.84
4	M	476	SER	C-N-CA	-5.26	113.26	119.84
5	B	1113	VAL	CB-CA-C	-5.26	106.25	111.30
9	R	80	ALA	N-CA-C	5.26	121.24	114.56
5	B	543	SER	N-CA-C	5.25	117.07	110.24
4	A	967	ALA	N-CA-C	-5.25	104.98	111.33
11	H	16	ASP	N-CA-C	5.25	118.67	107.91
4	M	365	GLY	CA-C-N	-5.25	118.22	123.04
4	M	365	GLY	C-N-CA	-5.25	118.22	123.04
5	N	964	VAL	N-CA-C	5.24	115.82	108.17
9	F	132	LEU	N-CA-C	5.24	118.54	110.42
4	M	1445	ILE	CB-CA-C	-5.24	104.60	111.25
6	O	40	GLU	N-CA-C	5.24	119.64	112.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	Q	84	ASP	N-CA-C	-5.24	106.74	113.02
5	N	165	VAL	N-CA-C	5.23	116.01	108.48
10	S	45	ILE	N-CA-C	-5.23	100.23	108.23
1	1	6	DC	O3'-P-O5'	-5.23	96.16	104.00
4	A	1391	ARG	N-CA-C	-5.22	107.92	114.56
6	O	258	ILE	N-CA-C	-5.22	105.31	111.00
7	P	195	ILE	CA-C-N	5.22	126.37	119.84
7	P	195	ILE	C-N-CA	5.22	126.37	119.84
4	A	87	ALA	N-CA-C	-5.21	105.75	112.68
8	Q	159	ASP	N-CA-C	-5.21	105.75	112.68
5	B	292	ILE	CB-CA-C	-5.21	108.75	113.70
6	C	33	LEU	N-CA-C	-5.20	105.30	110.97
5	N	732	SER	N-CA-C	5.20	115.15	108.34
8	Q	6	GLU	N-CA-C	-5.19	105.30	111.69
3	3	1	U	O3'-P-O5'	5.19	111.79	104.00
5	N	1153	GLU	N-CA-C	5.19	118.39	111.75
14	K	109	TRP	N-CA-C	5.19	116.62	111.07
5	N	378	LEU	N-CA-C	-5.19	105.11	111.75
5	B	1099	VAL	N-CA-C	5.19	115.62	110.23
5	N	851	PHE	N-CA-C	5.19	119.19	112.86
8	E	6	GLU	N-CA-C	-5.18	105.31	111.69
4	M	259	GLU	N-CA-C	5.18	117.80	110.50
9	R	132	LEU	N-CA-C	5.18	118.45	110.42
4	A	143	LYS	N-CA-C	-5.17	105.82	111.82
5	B	1045	SER	CA-C-N	5.17	126.31	119.84
5	B	1045	SER	C-N-CA	5.17	126.31	119.84
12	I	53	GLY	N-CA-C	-5.17	107.88	114.85
11	T	129	TYR	N-CA-C	5.17	119.54	112.88
4	A	215	SER	N-CA-C	5.16	117.35	110.53
4	A	415	LEU	N-CA-C	5.16	119.05	112.34
6	O	225	ALA	N-CA-C	5.16	117.40	107.44
5	B	628	THR	N-CA-C	-5.16	106.95	114.12
7	P	66	ARG	N-CA-C	-5.16	104.61	112.04
6	O	38	ILE	CB-CA-C	-5.16	105.10	111.70
7	D	15	LEU	N-CA-C	5.15	121.77	110.80
5	N	192	LEU	N-CA-C	-5.15	107.02	113.72
5	N	423	LYS	N-CA-C	-5.15	106.50	112.89
1	4	6	DC	O3'-P-O5'	-5.14	96.28	104.00
4	A	1038	THR	N-CA-C	-5.14	102.41	110.17
8	E	177	ARG	N-CA-C	5.14	118.11	110.14
5	B	555	ILE	N-CA-C	-5.14	106.06	110.74
4	M	143	LYS	N-CA-C	-5.14	105.76	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	1168	LEU	N-CA-C	5.13	116.47	109.18
4	A	564	ALA	N-CA-C	-5.12	105.88	111.82
5	N	903	VAL	N-CA-C	5.12	119.98	109.34
7	D	34	GLN	N-CA-C	-5.12	104.12	110.41
4	M	424	ILE	N-CA-C	5.12	119.98	109.34
7	P	15	LEU	N-CA-C	5.12	121.70	110.80
4	A	424	ILE	N-CA-C	5.11	119.97	109.34
4	M	466	SER	CA-C-N	-5.11	114.65	122.62
4	M	466	SER	C-N-CA	-5.11	114.65	122.62
4	A	398	GLU	N-CA-C	-5.11	103.79	110.53
5	N	366	GLN	N-CA-C	-5.11	105.95	113.61
14	K	63	VAL	N-CA-C	-5.10	101.24	108.58
7	D	51	ASN	N-CA-C	-5.09	102.22	110.32
4	A	553	VAL	CA-C-N	5.09	125.37	119.47
4	A	553	VAL	C-N-CA	5.09	125.37	119.47
4	M	229	SER	N-CA-C	5.09	116.19	107.28
4	A	436	ILE	N-CA-C	-5.09	103.02	109.58
14	K	18	LYS	N-CA-C	-5.09	105.17	111.33
4	M	998	LEU	N-CA-C	5.08	117.90	109.46
14	W	77	THR	N-CA-C	5.07	116.01	108.86
5	N	573	GLN	N-CA-C	-5.07	105.84	112.23
4	A	222	LEU	N-CA-C	-5.07	101.44	109.96
4	M	224	PHE	N-CA-C	5.07	114.98	108.34
4	A	781	ASP	N-CA-C	5.07	118.43	111.54
5	B	1101	ASP	N-CA-C	-5.06	106.52	113.30
4	M	31	SER	N-CA-C	5.06	116.82	110.24
10	G	114	LEU	N-CA-C	-5.06	105.81	112.94
11	T	16	ASP	N-CA-C	5.06	118.28	107.91
12	U	53	GLY	N-CA-C	-5.05	107.82	114.95
5	N	1131	GLY	N-CA-C	5.05	120.21	111.98
4	M	199	LEU	N-CA-C	5.05	116.98	108.96
5	B	1201	LYS	N-CA-C	-5.04	104.87	111.02
4	M	491	VAL	N-CA-C	5.04	113.48	107.73
5	B	660	LYS	N-CA-C	-5.04	107.13	113.28
11	T	81	PRO	N-CA-C	5.04	116.85	110.70
13	J	42	LYS	N-CA-C	5.04	119.27	111.56
4	M	629	LEU	N-CA-C	-5.04	105.68	111.07
7	P	157	GLN	N-CA-C	-5.04	106.83	112.87
9	R	153	VAL	N-CA-C	5.04	113.63	106.53
5	N	468	GLU	N-CA-C	5.03	115.45	108.00
11	T	36	CYS	N-CA-C	5.03	116.68	108.63
6	C	201	TRP	CA-C-N	5.03	126.12	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	201	TRP	C-N-CA	5.03	126.12	119.84
4	M	1113	THR	CA-C-N	-5.02	113.56	119.84
4	M	1113	THR	C-N-CA	-5.02	113.56	119.84
7	P	183	LEU	N-CA-C	5.02	116.60	108.41
6	O	193	TYR	N-CA-C	5.02	115.94	108.86
7	D	66	ARG	N-CA-C	-5.02	104.81	112.04
4	M	513	SER	N-CA-C	5.02	116.89	109.62
4	A	984	LYS	N-CA-C	-5.02	105.89	111.36
5	B	1213	THR	N-CA-C	5.02	116.67	109.04
4	M	553	VAL	CA-C-N	5.01	125.29	119.47
4	M	553	VAL	C-N-CA	5.01	125.29	119.47
5	B	468	GLU	N-CA-C	5.01	116.55	108.08
5	N	872	GLU	N-CA-C	-5.01	104.07	110.53
4	M	781	ASP	N-CA-C	5.00	118.34	111.54
4	A	1444	MET	N-CA-C	5.00	117.27	109.52

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	2	20	DC	Sidechain
2	2	26	DC	Sidechain
2	5	20	DC	Sidechain
5	B	486	TYR	Sidechain
5	N	486	TYR	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	141	0	81	11	0
1	4	141	0	81	12	0
2	2	380	0	218	37	0
2	5	380	0	218	34	0
3	3	212	0	110	15	0
3	6	212	0	110	10	0
4	A	11186	0	11266	1373	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	M	11186	0	11266	1359	0
5	B	8866	0	8898	1041	0
5	N	8866	0	8898	1070	0
6	C	2101	0	2055	272	0
6	O	2101	0	2055	258	0
7	D	1427	0	1451	152	0
7	P	1427	0	1451	153	0
8	E	1752	0	1776	144	0
8	Q	1752	0	1776	138	0
9	F	705	0	730	88	0
9	R	705	0	730	84	0
10	G	1340	0	1357	162	0
10	S	1340	0	1357	169	0
11	H	1084	0	1057	124	0
11	T	1084	0	1057	128	0
12	I	944	0	899	117	0
12	U	944	0	899	120	0
13	J	532	0	542	104	0
13	V	532	0	542	115	0
14	K	919	0	929	117	0
14	W	919	0	929	107	0
15	L	364	0	386	42	0
15	X	364	0	386	44	0
16	A	1	0	0	0	0
16	M	1	0	0	0	0
17	A	2	0	0	0	0
17	B	1	0	0	0	0
17	C	1	0	0	0	0
17	I	2	0	0	0	0
17	J	1	0	0	0	0
17	L	1	0	0	0	0
17	M	2	0	0	0	0
17	N	1	0	0	0	0
17	O	1	0	0	0	0
17	U	2	0	0	0	0
17	V	1	0	0	0	0
17	X	1	0	0	0	0
All	All	63924	0	63510	6988	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 55.

All (6988) 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)
14:W:112:GLN:CB	14:W:112:GLN:CG	1.76	1.59
14:K:112:GLN:CB	14:K:112:GLN:CG	1.75	1.56
14:K:112:GLN:C	14:K:112:GLN:CA	1.79	1.55
14:W:112:GLN:CA	14:W:112:GLN:C	1.79	1.54
4:A:855:THR:HG21	4:A:857:ARG:HE	1.09	1.18
5:B:336:ARG:HG2	5:B:348:ARG:HD3	1.27	1.16
5:B:343:ILE:HG23	5:B:347:LYS:HB2	1.15	1.15
5:B:273:LEU:HB2	5:B:276:ILE:HD12	1.29	1.14
4:A:541:ILE:HD13	4:A:549:MET:HE1	1.26	1.14
5:N:336:ARG:HG2	5:N:348:ARG:HD3	1.28	1.13
5:N:343:ILE:HG23	5:N:347:LYS:HB2	1.17	1.12
4:M:541:ILE:HD13	4:M:549:MET:HE1	1.29	1.12
4:A:53:LEU:HD23	4:A:54:ASN:N	1.67	1.09
4:A:34:LYS:HE2	7:P:187:THR:HG21	1.35	1.09
4:A:34:LYS:HD3	4:A:57:ARG:HH22	1.03	1.09
4:M:53:LEU:HD23	4:M:54:ASN:N	1.67	1.09
13:V:3:VAL:HG21	13:V:18:TRP:HB2	1.35	1.08
13:J:5:VAL:HG12	13:J:6:ARG:HG3	1.36	1.06
4:M:53:LEU:HD23	4:M:54:ASN:H	0.92	1.06
4:M:855:THR:HG21	4:M:857:ARG:HE	1.05	1.06
10:G:138:THR:HG22	10:G:139:ILE:H	1.20	1.06
5:N:273:LEU:HB2	5:N:276:ILE:HD12	1.30	1.06
5:N:806:THR:HG22	5:N:808:ALA:H	1.17	1.06
13:V:5:VAL:HG12	13:V:6:ARG:HG3	1.26	1.06
4:A:53:LEU:HD23	4:A:54:ASN:H	0.92	1.06
4:A:1445:ILE:H	4:A:1445:ILE:HD12	1.20	1.05
4:M:34:LYS:HD3	4:M:57:ARG:NH2	1.71	1.05
14:K:111:LEU:C	14:K:112:GLN:HG2	1.81	1.05
5:B:589:VAL:HG12	5:B:590:HIS:H	1.22	1.04
5:B:214:ALA:HB3	5:B:498:THR:HA	1.38	1.04
4:M:40:THR:HG22	4:M:41:MET:HG3	1.40	1.04
4:M:1017:LEU:HB2	8:Q:206:GLY:H	1.23	1.04
5:B:336:ARG:HH22	5:B:345:LYS:HE2	1.23	1.03
2:2:26:DC:H2''	2:2:27:DA:O5'	1.54	1.03
5:B:232:SER:HB3	5:B:261:ARG:HH21	1.15	1.03
6:O:66:ARG:NH1	13:V:2:ILE:HG21	1.73	1.03
9:R:93:ILE:HD11	9:R:134:ILE:HD11	1.40	1.03
5:N:589:VAL:HG12	5:N:590:HIS:H	1.24	1.03
4:A:1017:LEU:HB2	8:E:206:GLY:H	1.25	1.02
5:B:806:THR:HG22	5:B:808:ALA:H	1.20	1.02
4:A:40:THR:HG22	4:A:41:MET:HG3	1.41	1.02
10:S:14:HIS:CD2	10:S:16:SER:HB2	1.95	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:567:LYS:HB3	11:H:96:VAL:H	1.24	1.01
5:B:1201:LYS:HE2	5:B:1205:GLN:OE1	1.61	1.01
4:M:754:SER:H	4:M:757:ASN:HD22	1.09	1.01
5:N:502:ILE:H	5:N:502:ILE:HD12	1.21	1.01
4:M:901:LEU:H	4:M:926:GLN:NE2	1.59	1.01
7:P:40:HIS:HB3	10:S:73:LYS:NZ	1.75	1.01
10:S:138:THR:HG22	10:S:139:ILE:H	1.25	1.00
7:D:187:THR:HG21	4:M:34:LYS:CE	1.91	1.00
4:M:567:LYS:HB3	11:T:96:VAL:H	1.27	1.00
5:N:232:SER:HB3	5:N:261:ARG:HH21	1.25	1.00
14:K:65:HIS:HD2	14:K:67:PHE:H	1.07	1.00
5:N:1201:LYS:HE2	5:N:1205:GLN:OE1	1.61	0.99
5:N:486:TYR:OH	5:N:1096:ARG:HB3	1.63	0.99
1:1:1:DA:H1'	1:1:2:DA:H5'	1.39	0.99
5:B:65:GLU:HG3	5:B:66:ASP:H	1.26	0.99
5:N:824:ILE:HG22	5:N:1087:PHE:HE2	1.23	0.99
5:B:824:ILE:HG22	5:B:1087:PHE:HE2	1.27	0.98
5:N:882:THR:HG22	5:N:884:ARG:H	1.28	0.98
4:M:34:LYS:HD3	4:M:57:ARG:HH22	0.86	0.98
4:M:254:GLU:HB2	5:N:935:ARG:HH12	1.28	0.98
4:A:1420:ASP:HB3	4:A:1422:ARG:HG3	1.43	0.98
6:C:66:ARG:NH1	13:J:2:ILE:HG21	1.79	0.98
4:M:1402:PHE:CE1	4:M:1403:GLU:HG3	1.98	0.98
14:W:111:LEU:C	14:W:112:GLN:HG2	1.88	0.97
4:A:58:LEU:HD21	4:A:243:PRO:HA	1.45	0.97
7:D:187:THR:HG21	4:M:34:LYS:HE2	1.00	0.97
9:F:93:ILE:HD11	9:F:134:ILE:HD11	1.45	0.97
4:A:1161:THR:HG22	4:A:1163:ILE:H	1.27	0.97
12:I:34:TYR:HD2	12:I:35:VAL:N	1.62	0.97
5:N:214:ALA:HB3	5:N:498:THR:HA	1.45	0.97
4:M:34:LYS:CD	4:M:57:ARG:HH22	1.77	0.97
5:B:521:LEU:HD22	5:B:633:VAL:HG12	1.43	0.97
4:M:1445:ILE:H	4:M:1445:ILE:HD12	1.29	0.97
14:W:47:ARG:HB3	14:W:47:ARG:HH11	1.27	0.97
6:C:57:VAL:HG11	13:J:60:PHE:HB3	1.43	0.97
4:M:58:LEU:HD12	4:M:59:GLY:H	1.30	0.96
6:O:43:THR:HG22	6:O:44:LEU:H	1.27	0.96
5:B:882:THR:HG22	5:B:884:ARG:H	1.28	0.96
4:A:21:LEU:HD11	4:A:1414:ALA:HA	1.47	0.96
6:O:166:GLU:HG3	14:W:10:PHE:HZ	1.27	0.96
14:W:65:HIS:HD2	14:W:67:PHE:H	1.13	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:486:TYR:OH	5:B:1096:ARG:HB3	1.65	0.96
5:B:502:ILE:H	5:B:502:ILE:HD12	1.30	0.96
5:B:821:GLN:HE22	5:B:851:PHE:HA	1.31	0.96
4:M:913:LEU:HD12	4:M:914:GLU:H	1.31	0.96
5:N:65:GLU:HG3	5:N:66:ASP:H	1.30	0.96
10:S:13:LEU:HD21	10:S:17:PHE:HB2	1.48	0.96
4:A:399:HIS:HB3	4:A:400:PRO:HD3	1.45	0.95
4:M:1424:VAL:HG13	4:M:1436:ILE:HD11	1.47	0.95
10:S:81:PRO:HG3	10:S:106:MET:SD	2.04	0.95
2:5:26:DC:H2''	2:5:27:DA:O5'	1.65	0.95
6:C:43:THR:HG22	6:C:44:LEU:H	1.29	0.95
2:5:26:DC:H2''	2:5:27:DA:C5'	1.96	0.95
4:A:53:LEU:CD2	4:A:54:ASN:H	1.79	0.95
10:G:14:HIS:CD2	10:G:16:SER:HB2	2.02	0.95
5:N:521:LEU:HD22	5:N:633:VAL:HG12	1.47	0.95
4:A:1402:PHE:CE1	4:A:1403:GLU:HG3	2.01	0.95
9:F:82:THR:HG22	9:F:84:TYR:H	1.25	0.95
5:B:847:ASP:HB3	6:C:167:HIS:HE2	1.32	0.95
4:A:567:LYS:CG	4:A:568:PRO:HD2	1.97	0.95
4:M:341:MET:HE2	4:M:843:LYS:HZ1	1.32	0.95
4:M:901:LEU:HG	4:M:926:GLN:HE21	1.31	0.94
5:B:800:GLN:HB3	13:J:52:THR:HG21	1.46	0.94
4:M:58:LEU:HD21	4:M:243:PRO:HA	1.49	0.94
4:A:963:ILE:HD11	4:A:1048:ASN:HB3	1.46	0.94
4:A:1424:VAL:HG13	4:A:1436:ILE:HD11	1.48	0.94
4:M:225:ASN:HD22	4:M:228:PHE:H	1.15	0.94
5:B:549:THR:HG22	5:B:550:ASP:H	1.31	0.94
4:M:567:LYS:CG	4:M:568:PRO:HD2	1.97	0.94
5:N:336:ARG:HH22	5:N:345:LYS:HE2	1.31	0.94
4:M:53:LEU:CD2	4:M:54:ASN:H	1.81	0.93
6:O:57:VAL:HG11	13:V:60:PHE:HB3	1.47	0.93
7:P:40:HIS:HB3	10:S:73:LYS:HZ3	1.26	0.93
4:A:709:THR:HG23	12:I:94:ASP:HA	1.51	0.93
6:C:6:PRO:HB3	6:C:25:VAL:CG1	1.98	0.93
13:V:1:MET:H1	13:V:57:ILE:N	1.67	0.93
4:M:21:LEU:HD11	4:M:1414:ALA:HA	1.50	0.93
4:A:779:PHE:HE1	4:A:785:PRO:HD3	1.33	0.93
10:G:13:LEU:HD21	10:G:17:PHE:HB2	1.51	0.93
5:N:1187:ASN:O	5:N:1188:LYS:HB2	1.69	0.93
4:A:225:ASN:HD22	4:A:228:PHE:H	1.06	0.93
4:A:901:LEU:H	4:A:926:GLN:NE2	1.67	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:101:LEU:HD13	6:C:118:LEU:HD23	1.51	0.93
2:2:25:DT:H2''	2:2:26:DC:O5'	1.66	0.92
4:A:115:LEU:HB2	4:A:122:MET:HE2	1.51	0.92
4:M:563:PRO:HG3	4:M:572:TRP:CZ2	2.04	0.92
5:N:172:ILE:HD13	5:N:178:ASN:HB3	1.50	0.92
6:O:142:VAL:H	13:V:16:ASP:HB3	1.34	0.92
11:T:4:THR:HA	11:T:60:ALA:HB2	1.48	0.92
7:D:144:THR:O	7:D:148:LEU:HB2	1.69	0.92
5:N:510:LYS:HG2	5:N:511:PRO:HD3	1.49	0.92
5:N:800:GLN:HB3	13:V:52:THR:CG2	1.99	0.92
6:C:166:GLU:HG3	14:K:10:PHE:HZ	1.29	0.92
1:4:1:DA:H1'	1:4:2:DA:H5'	1.48	0.92
4:A:254:GLU:HB2	5:B:935:ARG:HH12	1.34	0.92
4:M:524:VAL:HG12	4:M:525:GLN:H	1.33	0.92
4:M:1420:ASP:HB3	4:M:1422:ARG:HG3	1.51	0.92
8:E:94:LYS:HE2	8:E:98:ILE:HD11	1.53	0.92
5:B:847:ASP:HB3	6:C:167:HIS:NE2	1.85	0.91
6:O:6:PRO:HB3	6:O:25:VAL:CG1	2.00	0.91
2:5:25:DT:H2''	2:5:26:DC:O5'	1.67	0.91
4:A:34:LYS:CE	7:P:187:THR:HG21	2.00	0.91
5:B:254:LEU:HD23	5:B:381:MET:HE1	1.51	0.91
7:D:47:LEU:HD13	7:D:48:ILE:H	1.36	0.91
12:I:34:TYR:CD2	12:I:35:VAL:N	2.38	0.91
4:A:567:LYS:CD	4:A:568:PRO:HD2	2.00	0.91
12:I:85:PHE:H	12:I:85:PHE:HD2	1.09	0.91
4:M:399:HIS:HB3	4:M:400:PRO:HD3	1.48	0.91
4:M:1094:VAL:HG12	4:M:1095:THR:H	1.31	0.91
4:M:1161:THR:HG22	4:M:1163:ILE:H	1.34	0.91
5:N:800:GLN:HB3	13:V:52:THR:HG21	1.51	0.91
14:K:47:ARG:HB3	14:K:47:ARG:HH11	1.35	0.91
5:B:217:ARG:HE	5:B:405:ARG:HB2	1.35	0.91
12:I:8:ARG:HG3	12:I:34:TYR:HE1	1.35	0.91
6:O:47:ASP:HA	15:X:69:ALA:HB3	1.53	0.91
4:A:1094:VAL:HG12	4:A:1095:THR:H	1.33	0.91
13:J:3:VAL:HG21	13:J:18:TRP:HB2	1.52	0.91
4:M:285:PRO:HG2	4:M:288:ALA:HB3	1.53	0.91
5:N:510:LYS:CG	5:N:511:PRO:HD3	2.01	0.91
9:R:82:THR:HG22	9:R:84:TYR:H	1.33	0.91
4:A:855:THR:HG21	4:A:857:ARG:NE	1.86	0.90
4:M:93:VAL:HG13	4:M:301:ALA:HB1	1.51	0.90
5:N:46:GLN:HG3	5:N:47:GLN:H	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:709:THR:HG23	12:U:94:ASP:HA	1.54	0.90
6:C:6:PRO:HB3	6:C:25:VAL:HG12	1.52	0.90
8:Q:19:VAL:O	8:Q:23:VAL:HG23	1.72	0.90
7:P:47:LEU:HD13	7:P:48:ILE:H	1.36	0.90
4:M:567:LYS:CD	4:M:568:PRO:HD2	2.00	0.90
4:M:1329:THR:HG22	4:M:1331:SER:H	1.34	0.90
4:M:535:THR:HG21	4:M:616:VAL:HA	1.53	0.90
10:S:15:PRO:HA	10:S:18:PHE:CD1	2.07	0.90
4:A:58:LEU:CD1	4:A:59:GLY:H	1.83	0.89
5:B:483:LEU:HD11	5:B:491:THR:HG23	1.52	0.89
5:N:577:ALA:HB1	5:N:589:VAL:HG11	1.53	0.89
5:B:467:GLY:H	5:B:475:SER:HB3	1.36	0.89
4:A:1329:THR:HG22	4:A:1331:SER:H	1.37	0.89
5:B:1072:MET:CE	5:B:1085:ILE:HB	2.03	0.89
13:V:16:ASP:OD1	13:V:17:LYS:HD2	1.72	0.89
4:M:836:TYR:CD2	4:M:840:ARG:HD2	2.07	0.89
5:N:515:HIS:H	5:N:518:HIS:HD2	1.19	0.89
12:U:85:PHE:H	12:U:85:PHE:HD2	1.14	0.89
4:A:84:ILE:HD11	4:A:270:LEU:HD13	1.52	0.89
10:S:7:LEU:HB2	10:S:74:TYR:CE2	2.08	0.89
4:M:58:LEU:CD1	4:M:59:GLY:H	1.84	0.89
5:B:510:LYS:CG	5:B:511:PRO:HD3	2.02	0.89
11:H:4:THR:HA	11:H:60:ALA:HB2	1.53	0.89
13:J:1:MET:H2	13:J:57:ILE:H	0.98	0.89
5:N:999:MET:HG3	5:N:1000:PRO:HD2	1.55	0.89
5:N:1072:MET:CE	5:N:1085:ILE:HB	2.03	0.89
4:A:563:PRO:HG3	4:A:572:TRP:CZ2	2.08	0.88
14:K:21:ILE:HG12	14:K:33:ILE:HG12	1.55	0.88
4:M:646:PHE:O	4:M:650:GLN:HG3	1.72	0.88
13:V:1:MET:N	13:V:57:ILE:H	1.71	0.88
4:A:67:CYS:O	4:A:70:CYS:HB3	1.72	0.88
5:B:800:GLN:HB3	13:J:52:THR:CG2	2.03	0.88
11:H:84:ALA:HA	11:H:87:ARG:HB2	1.54	0.88
4:M:115:LEU:HB2	4:M:122:MET:HE2	1.55	0.88
4:A:58:LEU:HD12	4:A:59:GLY:H	1.36	0.88
5:N:999:MET:HA	5:N:999:MET:HE3	1.56	0.88
5:N:1138:MET:HA	5:N:1138:MET:HE3	1.55	0.88
5:B:999:MET:HG3	5:B:1000:PRO:HD2	1.56	0.88
7:D:40:HIS:HB3	10:G:73:LYS:NZ	1.87	0.88
4:M:855:THR:HG21	4:M:857:ARG:NE	1.87	0.88
5:B:336:ARG:HD3	5:B:348:ARG:HH11	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:779:PHE:HE1	4:M:785:PRO:HD3	1.37	0.88
7:P:144:THR:O	7:P:148:LEU:HB2	1.74	0.88
4:A:34:LYS:HD3	4:A:57:ARG:NH2	1.89	0.88
4:M:855:THR:CG2	4:M:857:ARG:HE	1.87	0.88
6:O:66:ARG:NH2	13:V:5:VAL:HG23	1.88	0.88
4:A:646:PHE:O	4:A:650:GLN:HG3	1.73	0.87
5:N:899:ILE:HD11	5:N:911:ILE:HA	1.53	0.87
4:A:524:VAL:HG12	4:A:525:GLN:H	1.40	0.87
14:W:21:ILE:HG12	14:W:33:ILE:HG12	1.57	0.87
5:B:98:THR:O	5:B:126:SER:HB2	1.73	0.87
5:N:254:LEU:HD23	5:N:381:MET:HE1	1.55	0.87
4:A:93:VAL:HG13	4:A:301:ALA:HB1	1.55	0.87
4:A:1094:VAL:HG12	4:A:1095:THR:N	1.89	0.87
5:N:343:ILE:CG2	5:N:348:ARG:HG3	2.04	0.87
5:N:549:THR:HG22	5:N:550:ASP:H	1.40	0.87
12:U:26:LEU:HD23	12:U:37:GLU:HA	1.56	0.87
4:M:567:LYS:HD2	4:M:568:PRO:HD2	1.57	0.87
13:V:1:MET:H1	13:V:57:ILE:H	0.88	0.87
4:A:285:PRO:HG2	4:A:288:ALA:HB3	1.57	0.87
12:I:115:LYS:HD3	12:I:117:LYS:HE3	1.54	0.87
4:A:567:LYS:HD2	4:A:568:PRO:HD2	1.54	0.87
11:H:36:CYS:HA	11:H:126:GLU:O	1.75	0.87
5:N:516:ASN:N	5:N:516:ASN:HD22	1.70	0.86
12:U:34:TYR:CD2	12:U:35:VAL:N	2.42	0.86
5:N:1072:MET:HE3	5:N:1085:ILE:HB	1.57	0.86
6:O:33:LEU:HG	6:O:37:MET:HE2	1.56	0.86
4:M:1094:VAL:HG12	4:M:1095:THR:N	1.90	0.86
5:N:847:ASP:HB3	6:O:167:HIS:NE2	1.89	0.86
5:B:172:ILE:HD13	5:B:178:ASN:HB3	1.58	0.86
5:B:232:SER:HB3	5:B:261:ARG:NH2	1.89	0.86
10:G:7:LEU:HB2	10:G:74:TYR:CE2	2.10	0.86
10:G:15:PRO:HA	10:G:18:PHE:CD1	2.11	0.86
4:M:828:ALA:CB	5:N:530:GLY:HA2	2.05	0.86
4:M:1444:MET:HE1	9:R:135:ARG:HB2	1.56	0.86
5:B:46:GLN:HG3	5:B:47:GLN:H	1.39	0.86
8:E:19:VAL:O	8:E:23:VAL:HG23	1.75	0.86
5:N:1224:PHE:HE2	8:Q:171:LYS:HG3	1.41	0.86
12:U:34:TYR:HD2	12:U:35:VAL:N	1.74	0.86
5:B:343:ILE:CG2	5:B:348:ARG:HG3	2.04	0.86
5:B:516:ASN:HD22	5:B:516:ASN:N	1.70	0.86
8:E:198:ILE:HD11	8:E:212:ARG:HG3	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:343:ILE:HG21	5:N:348:ARG:HG3	1.58	0.86
12:U:115:LYS:HD3	12:U:117:LYS:HE3	1.55	0.86
4:A:34:LYS:CD	4:A:57:ARG:HH22	1.88	0.85
5:B:343:ILE:HG21	5:B:348:ARG:HG3	1.58	0.85
4:M:853:ASP:OD1	4:M:855:THR:HB	1.76	0.85
4:A:855:THR:CG2	4:A:857:ARG:HE	1.88	0.85
4:A:868:TYR:CE1	4:A:1064:VAL:HG11	2.11	0.85
5:B:899:ILE:HD11	5:B:911:ILE:HA	1.57	0.85
4:M:34:LYS:HE3	4:M:57:ARG:HH12	1.41	0.85
5:N:168:GLY:H	5:N:450:ALA:HB1	1.42	0.85
6:O:6:PRO:HB3	6:O:25:VAL:HG12	1.57	0.85
7:D:153:ARG:NH2	7:D:184:ALA:HA	1.90	0.85
1:1:6:DC:H1'	1:1:7:DT:H5'	1.58	0.85
2:2:20:DC:H4'	4:A:447:GLN:NE2	1.92	0.85
4:A:356:ASP:HB2	4:A:469:ARG:NH1	1.90	0.85
4:A:590:ARG:HH21	4:A:620:LYS:HB3	1.41	0.85
5:B:778:MET:CE	5:B:1094:ARG:HD3	2.07	0.85
4:M:466:SER:O	5:N:1103:ILE:HD11	1.77	0.85
14:K:112:GLN:C	14:K:112:GLN:HA	2.02	0.85
4:M:351:THR:HB	5:N:1103:ILE:HD12	1.58	0.85
5:B:770:GLN:OE1	5:B:983:ARG:HA	1.76	0.85
5:B:1187:ASN:O	5:B:1188:LYS:HB2	1.76	0.85
8:Q:94:LYS:HE2	8:Q:98:ILE:HD11	1.59	0.85
4:A:34:LYS:HE2	7:P:187:THR:CG2	2.07	0.85
4:A:351:THR:HB	5:B:1103:ILE:HD12	1.59	0.85
4:A:754:SER:H	4:A:757:ASN:HD22	1.23	0.85
5:B:510:LYS:HG2	5:B:511:PRO:HD3	1.55	0.85
11:T:84:ALA:HA	11:T:87:ARG:HB2	1.57	0.85
5:B:1224:PHE:HE2	8:E:171:LYS:HG3	1.39	0.84
5:N:613:VAL:HG13	5:N:627:PHE:O	1.77	0.84
14:W:112:GLN:C	14:W:112:GLN:HA	2.02	0.84
4:A:836:TYR:CE2	4:A:840:ARG:HD2	2.12	0.84
5:N:217:ARG:HE	5:N:405:ARG:HB2	1.41	0.84
5:B:363:HIS:O	5:B:364:ILE:HB	1.78	0.84
4:M:1325:THR:O	8:Q:148:GLU:HB2	1.77	0.84
11:T:100:THR:HG23	11:T:138:GLU:HA	1.59	0.84
5:B:1072:MET:HE3	5:B:1085:ILE:HB	1.57	0.84
5:N:363:HIS:O	5:N:364:ILE:HB	1.78	0.84
12:U:8:ARG:HG3	12:U:34:TYR:HE1	1.40	0.84
4:A:828:ALA:CB	5:B:530:GLY:HA2	2.07	0.84
9:R:86:THR:OG1	9:R:89:GLU:HG3	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:47:ASP:HA	15:L:69:ALA:HB3	1.60	0.84
5:N:701:ILE:HD11	5:N:703:ILE:HD11	1.59	0.84
7:P:47:LEU:HD11	10:S:3:PHE:CD2	2.11	0.84
4:M:351:THR:HG22	5:N:1103:ILE:HA	1.60	0.84
4:M:590:ARG:NH2	4:M:620:LYS:HB3	1.92	0.84
4:M:783:THR:HG21	4:M:815:PHE:CZ	2.13	0.84
9:F:111:LEU:HD12	9:F:111:LEU:H	1.42	0.84
4:A:901:LEU:HG	4:A:926:GLN:HE21	1.41	0.84
4:A:903:ASN:HD22	4:A:904:THR:N	1.75	0.84
4:A:779:PHE:CE1	4:A:785:PRO:HD3	2.13	0.83
4:A:321:PRO:O	4:A:322:VAL:HB	1.76	0.83
5:B:654:ARG:H	5:B:657:HIS:HD2	1.26	0.83
4:M:1171:GLN:HA	4:M:1174:PHE:CE1	2.13	0.83
5:B:336:ARG:NH2	5:B:345:LYS:HG2	1.93	0.83
5:B:340:ALA:HB2	5:B:343:ILE:HD12	1.59	0.83
13:J:1:MET:N	13:J:57:ILE:H	1.75	0.83
4:M:709:THR:HG22	4:M:711:ARG:H	1.42	0.83
5:N:847:ASP:HB3	6:O:167:HIS:HE2	1.42	0.83
4:A:885:THR:O	4:A:940:ARG:HD2	1.77	0.83
5:B:515:HIS:H	5:B:518:HIS:HD2	1.25	0.83
4:M:868:TYR:CE1	4:M:1064:VAL:HG11	2.14	0.83
5:N:343:ILE:HG21	5:N:348:ARG:N	1.92	0.83
5:N:467:GLY:N	5:N:475:SER:HB3	1.93	0.83
5:N:654:ARG:H	5:N:657:HIS:HD2	1.25	0.83
2:5:20:DC:H4'	4:M:447:GLN:NE2	1.93	0.83
5:B:1065:GLN:HE21	5:B:1067:ARG:H	1.25	0.83
4:M:239:LEU:HD12	4:M:240:PRO:HD2	1.59	0.83
5:N:483:LEU:HD11	5:N:491:THR:HG23	1.60	0.83
4:A:567:LYS:HB3	11:H:96:VAL:N	1.93	0.83
4:M:567:LYS:HB3	11:T:96:VAL:N	1.93	0.83
5:B:1002:THR:HG21	5:B:1006:ILE:HD12	1.61	0.83
4:M:768:GLN:HG2	4:M:816:HIS:HA	1.61	0.83
4:A:535:THR:HG21	4:A:616:VAL:HA	1.58	0.83
5:N:467:GLY:H	5:N:475:SER:HB3	1.43	0.83
15:X:32:ALA:HB3	15:X:55:ILE:HD12	1.61	0.83
4:A:70:CYS:O	4:A:72:GLU:HG2	1.78	0.82
5:B:467:GLY:N	5:B:475:SER:HB3	1.92	0.82
4:M:356:ASP:HB2	4:M:469:ARG:NH1	1.94	0.82
5:N:806:THR:HG22	5:N:808:ALA:N	1.94	0.82
4:A:382:PRO:HB3	4:A:428:TYR:HE2	1.43	0.82
6:C:32:SER:O	6:C:36:VAL:HG23	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G:34:VAL:HG12	10:G:45:ILE:HG21	1.59	0.82
4:A:858:ASN:C	4:A:858:ASN:HD22	1.85	0.82
5:B:365:THR:HG23	5:B:367:LEU:H	1.42	0.82
5:N:98:THR:O	5:N:126:SER:HB2	1.79	0.82
4:M:590:ARG:HH21	4:M:620:LYS:HB3	1.42	0.82
5:N:770:GLN:OE1	5:N:983:ARG:HA	1.78	0.82
10:S:14:HIS:ND1	10:S:15:PRO:HD2	1.94	0.82
7:D:187:THR:CG2	4:M:34:LYS:HE2	1.97	0.82
4:M:1394:THR:HG21	4:M:1398:MET:SD	2.20	0.82
13:V:64:ASN:HB3	13:V:65:PRO:CD	2.09	0.82
4:M:779:PHE:CE1	4:M:785:PRO:HD3	2.14	0.82
4:A:353:ILE:HD13	4:A:487:MET:HE2	1.62	0.82
4:A:1100:ARG:HH21	4:A:1351:GLU:HG2	1.45	0.82
5:N:364:ILE:HG12	5:N:585:VAL:HG13	1.61	0.82
6:O:98:VAL:C	6:O:99:LEU:HD23	2.05	0.82
2:2:26:DC:H2''	2:2:27:DA:C5'	2.10	0.81
4:A:709:THR:HG22	4:A:711:ARG:H	1.43	0.81
4:A:866:PHE:C	4:A:867:ILE:HD12	2.04	0.81
4:M:913:LEU:HD12	4:M:914:GLU:N	1.95	0.81
6:O:43:THR:HG22	6:O:44:LEU:N	1.89	0.81
10:S:80:LYS:HD3	10:S:80:LYS:N	1.95	0.81
5:B:701:ILE:HD11	5:B:703:ILE:HD11	1.62	0.81
8:Q:16:PHE:CZ	8:Q:20:LYS:HE2	2.15	0.81
11:T:36:CYS:HA	11:T:126:GLU:O	1.79	0.81
4:A:1444:MET:HE1	9:F:135:ARG:HB2	1.61	0.81
5:B:336:ARG:CG	5:B:348:ARG:HD3	2.08	0.81
5:B:1096:ARG:O	5:B:1097:HIS:HB2	1.79	0.81
10:G:81:PRO:HG3	10:G:106:MET:SD	2.19	0.81
12:I:26:LEU:HD23	12:I:37:GLU:HA	1.61	0.81
13:J:64:ASN:HB3	13:J:65:PRO:CD	2.10	0.81
4:M:885:THR:O	4:M:940:ARG:HD2	1.80	0.81
4:M:1189:SER:O	4:M:1241:ARG:HD3	1.80	0.81
5:N:879:ARG:HH11	5:N:883:LEU:HD22	1.44	0.81
11:T:56:THR:HB	11:T:145:ARG:HG2	1.63	0.81
4:A:1004:ASN:ND2	8:E:167:ARG:HD2	1.95	0.81
9:R:111:LEU:H	9:R:111:LEU:HD12	1.44	0.81
4:A:337:ARG:HD3	5:B:1132:GLU:OE1	1.81	0.81
6:C:43:THR:HG22	6:C:44:LEU:N	1.96	0.81
5:N:332:ASP:O	5:N:336:ARG:HG3	1.81	0.81
13:V:64:ASN:HB3	13:V:65:PRO:HD3	1.61	0.81
4:M:335:ARG:NH1	5:N:1202:LEU:HD13	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:1002:THR:HG21	5:N:1006:ILE:HD12	1.61	0.81
5:N:1180:PHE:HB3	5:N:1191:ILE:CD1	2.10	0.81
4:A:913:LEU:HD12	4:A:914:GLU:H	1.46	0.81
5:B:53:GLN:HG2	5:B:547:VAL:HG22	1.63	0.81
6:C:39:ALA:HA	6:C:164:ALA:HB3	1.63	0.81
4:M:963:ILE:HD11	4:M:1048:ASN:HB3	1.63	0.81
14:W:45:LEU:HG	14:W:94:ILE:HD13	1.63	0.81
4:M:107:CYS:SG	4:M:171:GLN:HG2	2.21	0.81
8:Q:22:MET:HE3	8:Q:26:ARG:HE	1.46	0.81
4:A:534:LEU:O	4:A:574:GLY:HA3	1.80	0.80
5:B:661:LEU:HD11	5:B:684:LEU:HD11	1.61	0.80
4:M:438:ASP:O	4:M:439:ASN:HB2	1.81	0.80
5:B:824:ILE:HG22	5:B:1087:PHE:CE2	2.16	0.80
5:B:1180:PHE:HB3	5:B:1191:ILE:HD12	1.63	0.80
11:H:56:THR:HB	11:H:145:ARG:HG2	1.63	0.80
4:M:384:ASN:OD1	4:M:388:LEU:HD12	1.80	0.80
6:O:101:LEU:HD13	6:O:118:LEU:HD23	1.61	0.80
2:5:26:DC:H2''	2:5:27:DA:H5'	1.61	0.80
4:A:590:ARG:NH2	4:A:620:LYS:HB3	1.96	0.80
4:A:1189:SER:O	4:A:1241:ARG:HD3	1.80	0.80
5:B:1159:ARG:HD3	5:B:1193:GLN:HG3	1.63	0.80
4:M:534:LEU:O	4:M:574:GLY:HA3	1.81	0.80
4:M:1121:GLU:HG2	4:M:1122:PRO:HD2	1.63	0.80
5:N:1096:ARG:O	5:N:1097:HIS:HB2	1.79	0.80
11:T:81:PRO:HB2	11:T:82:PRO:HD2	1.63	0.80
4:A:836:TYR:CD2	4:A:840:ARG:HD2	2.17	0.80
5:B:393:LYS:HA	5:B:393:LYS:HE3	1.64	0.80
5:N:1084:GLN:NE2	5:N:1084:GLN:H	1.79	0.80
1:4:6:DC:H1'	1:4:7:DT:H5'	1.63	0.80
4:A:225:ASN:ND2	4:A:228:PHE:H	1.80	0.80
14:K:65:HIS:CD2	14:K:67:PHE:H	1.97	0.80
4:M:84:ILE:HD11	4:M:270:LEU:HD13	1.62	0.80
8:Q:198:ILE:HD11	8:Q:212:ARG:HG3	1.64	0.80
4:A:269:ILE:HD13	4:A:300:VAL:HG22	1.63	0.80
4:A:438:ASP:O	4:A:439:ASN:HB2	1.82	0.80
5:B:232:SER:CB	5:B:261:ARG:HH21	1.94	0.80
11:H:81:PRO:HB2	11:H:82:PRO:HD2	1.64	0.80
5:N:171:PRO:HD2	5:N:457:LEU:HD13	1.64	0.80
5:N:189:LEU:HA	5:N:192:LEU:HD12	1.62	0.80
5:N:365:THR:HG23	5:N:367:LEU:H	1.44	0.80
4:A:541:ILE:HD13	4:A:549:MET:CE	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:J:43:ARG:HG3	13:J:45:CYS:SG	2.21	0.80
4:A:35:ILE:HG22	4:A:35:ILE:O	1.81	0.79
4:A:768:GLN:CG	4:A:816:HIS:HA	2.12	0.79
5:B:642:ASP:HA	5:B:649:LYS:HA	1.61	0.79
6:O:32:SER:O	6:O:36:VAL:HG23	1.82	0.79
5:B:999:MET:HA	5:B:999:MET:HE3	1.65	0.79
5:N:824:ILE:HG22	5:N:1087:PHE:CE2	2.15	0.79
8:Q:157:SER:C	8:Q:159:ASP:H	1.91	0.79
10:S:59:GLY:HA3	10:S:70:PHE:CD2	2.18	0.79
4:A:1100:ARG:HH21	4:A:1351:GLU:CG	1.95	0.79
5:B:577:ALA:HB1	5:B:589:VAL:HG11	1.62	0.79
13:J:64:ASN:HB3	13:J:65:PRO:HD3	1.62	0.79
4:M:855:THR:HG23	4:M:857:ARG:HG3	1.64	0.79
5:B:244:LEU:HD21	5:B:366:GLN:NE2	1.96	0.79
11:H:100:THR:HG23	11:H:138:GLU:HA	1.64	0.79
5:N:340:ALA:HB2	5:N:343:ILE:HD12	1.63	0.79
5:N:1065:GLN:HE21	5:N:1067:ARG:N	1.81	0.79
4:M:321:PRO:O	4:M:322:VAL:HB	1.82	0.79
4:A:549:MET:SD	4:A:577:ILE:HD11	2.23	0.79
6:C:239:PRO:HB2	6:C:241:ASP:OD1	1.83	0.79
4:M:215:SER:HB3	4:M:218:ASP:OD2	1.82	0.79
5:N:112:LEU:HD12	5:N:113:TYR:H	1.46	0.79
7:P:153:ARG:NH2	7:P:184:ALA:HA	1.96	0.79
4:A:58:LEU:HD21	4:A:243:PRO:CA	2.13	0.79
4:M:70:CYS:O	4:M:72:GLU:HG2	1.82	0.79
5:N:434:ARG:O	5:N:437:GLU:HB2	1.82	0.79
4:M:567:LYS:HB3	11:T:95:TYR:HA	1.64	0.79
10:S:34:VAL:HG12	10:S:45:ILE:HG21	1.63	0.79
4:A:1171:GLN:HA	4:A:1174:PHE:CE1	2.17	0.79
5:B:911:ILE:HD11	5:B:941:LEU:HD13	1.62	0.79
4:M:858:ASN:HD22	4:M:858:ASN:C	1.90	0.79
4:A:858:ASN:ND2	4:A:860:LEU:H	1.80	0.78
4:A:886:ILE:HG22	4:A:887:GLY:N	1.97	0.78
5:B:806:THR:HG22	5:B:808:ALA:N	1.98	0.78
8:E:157:SER:C	8:E:159:ASP:H	1.90	0.78
4:M:337:ARG:HD3	5:N:1132:GLU:OE1	1.83	0.78
5:N:778:MET:CE	5:N:1094:ARG:HD3	2.12	0.78
10:S:14:HIS:HD2	10:S:16:SER:HB2	1.48	0.78
12:U:8:ARG:HG3	12:U:34:TYR:CE1	2.18	0.78
4:M:763:ALA:O	4:M:803:SER:HB3	1.81	0.78
5:N:708:GLU:O	5:N:710:LEU:N	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:58:LEU:HD11	4:A:243:PRO:HB3	1.65	0.78
7:D:47:LEU:HD11	10:G:3:PHE:CD2	2.17	0.78
5:N:35:SER:HA	5:N:811:TYR:HE2	1.48	0.78
5:N:273:LEU:CB	5:N:276:ILE:HD12	2.13	0.78
14:W:12:LEU:H	14:W:12:LEU:HD12	1.47	0.78
4:A:427:GLN:HG3	4:A:430:TRP:CZ2	2.19	0.78
4:A:996:ASN:O	4:A:998:LEU:HD12	1.84	0.78
4:A:1312:ASN:O	4:A:1316:VAL:HG23	1.84	0.78
7:D:40:HIS:HB3	10:G:73:LYS:HZ3	1.46	0.78
5:N:393:LYS:HE3	5:N:393:LYS:HA	1.65	0.78
5:N:842:ASN:ND2	5:N:845:SER:OG	2.17	0.78
5:N:911:ILE:HD11	5:N:941:LEU:HD13	1.64	0.78
6:O:47:ASP:HA	15:X:69:ALA:CB	2.13	0.78
12:I:8:ARG:HG3	12:I:34:TYR:CE1	2.19	0.78
5:N:840:ILE:HB	5:N:1011:ILE:HB	1.65	0.78
6:C:232:VAL:HG21	6:C:244:VAL:HG22	1.65	0.78
7:P:7:THR:HG21	7:P:32:GLU:CD	2.08	0.78
5:B:168:GLY:H	5:B:450:ALA:HB1	1.49	0.78
5:B:169:ARG:HB2	5:B:454:THR:HG23	1.62	0.78
5:B:1065:GLN:HE21	5:B:1067:ARG:N	1.82	0.78
5:N:361:LEU:HD21	5:N:377:PHE:CD2	2.18	0.78
5:N:515:HIS:H	5:N:518:HIS:CD2	2.02	0.78
5:N:1065:GLN:HE21	5:N:1067:ARG:H	1.31	0.78
5:B:955:THR:HG22	5:B:956:THR:H	1.50	0.78
5:B:1095:LEU:H	5:B:1095:LEU:HD12	1.49	0.78
7:P:134:THR:HG22	7:P:136:GLY:H	1.49	0.78
4:A:1348:LEU:HG	4:A:1372:VAL:HG23	1.65	0.77
5:B:35:SER:HA	5:B:811:TYR:HE2	1.48	0.77
5:N:232:SER:CB	5:N:261:ARG:HH21	1.97	0.77
5:N:1085:ILE:HD12	5:N:1085:ILE:N	1.99	0.77
5:N:1001:PHE:CE1	5:N:1073:TYR:HB2	2.19	0.77
9:R:85:MET:HE2	9:R:93:ILE:HD12	1.65	0.77
4:A:107:CYS:SG	4:A:171:GLN:HG2	2.24	0.77
5:B:65:GLU:HG3	5:B:66:ASP:N	1.98	0.77
4:M:903:ASN:HD22	4:M:904:THR:N	1.80	0.77
4:M:1424:VAL:HG11	5:N:1139:ILE:HD13	1.65	0.77
5:N:53:GLN:HG2	5:N:547:VAL:HG22	1.66	0.77
4:A:68:GLN:C	4:A:70:CYS:H	1.92	0.77
5:B:336:ARG:HG2	5:B:348:ARG:CD	2.13	0.77
9:F:86:THR:OG1	9:F:89:GLU:HG3	1.85	0.77
10:G:14:HIS:ND1	10:G:15:PRO:HD2	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G:128:PRO:O	10:G:138:THR:HG23	1.84	0.77
10:S:1:MET:SD	10:S:79:PHE:CD1	2.77	0.77
9:F:79:ARG:HG3	9:F:144:GLU:OE1	1.84	0.77
4:M:767:GLN:NE2	4:M:774:ARG:HB3	2.00	0.77
4:A:1345:ARG:HG3	4:A:1376:THR:HG21	1.66	0.77
5:B:830:TYR:O	5:B:832:GLY:N	2.16	0.77
5:B:879:ARG:HH11	5:B:883:LEU:HD22	1.48	0.77
5:N:336:ARG:HD3	5:N:348:ARG:HH11	1.48	0.77
6:O:39:ALA:HA	6:O:164:ALA:HB3	1.64	0.77
5:B:189:LEU:HA	5:B:192:LEU:HD12	1.66	0.77
6:C:47:ASP:HA	15:L:69:ALA:CB	2.13	0.77
7:D:22:GLU:H	7:D:22:GLU:CD	1.91	0.77
4:M:58:LEU:HD11	4:M:243:PRO:HB3	1.67	0.77
4:M:353:ILE:HD13	4:M:487:MET:HE2	1.67	0.77
6:C:142:VAL:H	13:J:16:ASP:HB3	1.49	0.77
15:L:38:LEU:O	15:L:39:SER:HB3	1.85	0.77
4:M:1444:MET:HG2	10:S:60:ARG:HA	1.64	0.77
5:N:336:ARG:CG	5:N:348:ARG:HD3	2.12	0.77
4:A:567:LYS:HB3	11:H:95:TYR:HA	1.67	0.77
5:B:824:ILE:CG2	5:B:1087:PHE:HE2	1.98	0.77
11:H:61:SER:O	11:H:62:SER:HB3	1.85	0.77
4:M:886:ILE:HG22	4:M:887:GLY:N	1.98	0.77
5:N:65:GLU:HG3	5:N:66:ASP:N	2.00	0.77
11:T:40:LEU:HD13	11:T:123:MET:HB2	1.67	0.77
5:B:332:ASP:O	5:B:336:ARG:HG3	1.85	0.77
5:B:637:LEU:HD12	5:B:693:ILE:HD12	1.67	0.77
8:E:16:PHE:CZ	8:E:20:LYS:HE2	2.20	0.77
4:M:868:TYR:HD2	4:M:1058:VAL:HG21	1.48	0.77
4:M:1445:ILE:HG12	10:S:18:PHE:CE2	2.20	0.77
5:N:244:LEU:HD21	5:N:366:GLN:NE2	1.99	0.77
5:N:745:PRO:O	5:N:748:ILE:HG12	1.84	0.77
5:N:1180:PHE:HB3	5:N:1191:ILE:HD12	1.67	0.77
4:A:1121:GLU:HG2	4:A:1122:PRO:HD2	1.67	0.76
4:A:1325:THR:O	8:E:148:GLU:HB2	1.84	0.76
4:A:1329:THR:HG22	4:A:1331:SER:N	1.99	0.76
4:M:340:LEU:HD13	4:M:1429:ILE:HG23	1.66	0.76
4:M:844:ALA:O	4:M:845:LEU:HD23	1.84	0.76
5:N:18:PHE:N	5:N:19:GLU:N	2.33	0.76
5:N:615:MET:C	5:N:616:ILE:HD12	2.10	0.76
5:N:642:ASP:HA	5:N:649:LYS:HA	1.64	0.76
9:R:69:LEU:HA	9:R:70:LYS:N	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:W:110:ASN:O	14:W:111:LEU:HD23	1.85	0.76
5:B:336:ARG:HH22	5:B:345:LYS:CE	1.98	0.76
5:B:789:MET:HE2	5:B:953:LEU:HD22	1.67	0.76
4:M:382:PRO:HB3	4:M:428:TYR:HE2	1.49	0.76
9:R:111:LEU:C	9:R:113:GLY:H	1.93	0.76
2:2:20:DC:H4'	4:A:447:GLN:HE22	1.48	0.76
4:A:1063:MET:CG	4:A:1436:ILE:HG23	2.15	0.76
5:B:1162:ILE:HD11	5:B:1194:ILE:HD13	1.66	0.76
12:U:111:THR:HG22	12:U:112:SER:H	1.51	0.76
3:6:5:C:H2'	3:6:6:C:H6	1.49	0.76
4:A:1323:ASP:OD1	4:A:1325:THR:HB	1.85	0.76
7:D:47:LEU:HD11	10:G:3:PHE:HD2	1.51	0.76
4:A:768:GLN:HG2	4:A:816:HIS:HA	1.67	0.76
7:D:176:GLU:C	7:D:178:ALA:H	1.94	0.76
4:M:836:TYR:CE2	4:M:840:ARG:HD2	2.20	0.76
5:N:661:LEU:HD11	5:N:684:LEU:HD11	1.66	0.76
6:O:186:LEU:HD21	6:O:224:GLN:O	1.86	0.76
4:A:1094:VAL:CG1	4:A:1095:THR:H	1.98	0.76
7:D:130:LEU:C	7:D:132:GLN:H	1.93	0.76
4:M:1329:THR:HG22	4:M:1331:SER:N	1.99	0.76
1:1:1:DA:H1'	1:1:2:DA:C5'	2.13	0.76
4:A:1341:ILE:HD12	4:A:1379:GLY:O	1.85	0.76
4:A:855:THR:HG23	4:A:857:ARG:HG3	1.67	0.76
5:B:336:ARG:CD	5:B:348:ARG:HH11	1.98	0.76
7:D:7:THR:HG21	7:D:32:GLU:CD	2.10	0.76
4:M:1372:VAL:O	4:M:1376:THR:HG22	1.86	0.76
5:B:364:ILE:HG12	5:B:585:VAL:HG13	1.68	0.76
5:B:975:GLN:HG2	5:B:976:ILE:H	1.51	0.76
11:H:59:ILE:HG22	11:H:60:ALA:N	2.00	0.76
12:I:55:THR:HG21	12:I:109:ILE:HD13	1.66	0.76
4:M:1436:ILE:O	4:M:1437:GLY:C	2.28	0.76
5:N:1007:VAL:HG22	5:N:1008:PRO:HD2	1.67	0.76
5:B:1159:ARG:HB3	5:B:1159:ARG:NH1	2.00	0.76
4:M:106:VAL:HG13	4:M:112:LYS:O	1.85	0.76
4:M:1312:ASN:O	4:M:1316:VAL:HG23	1.86	0.76
5:N:189:LEU:O	5:N:192:LEU:N	2.17	0.76
11:T:4:THR:HA	11:T:60:ALA:CB	2.15	0.76
13:V:3:VAL:HG21	13:V:18:TRP:CB	2.14	0.76
6:C:98:VAL:C	6:C:99:LEU:HD23	2.11	0.75
9:F:111:LEU:C	9:F:113:GLY:H	1.94	0.75
5:N:336:ARG:NH2	5:N:345:LYS:HG2	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1436:ILE:O	4:A:1437:GLY:C	2.29	0.75
5:B:336:ARG:HH21	5:B:345:LYS:HG2	1.51	0.75
5:B:613:VAL:HG13	5:B:627:PHE:O	1.86	0.75
10:G:80:LYS:HD3	10:G:80:LYS:N	2.02	0.75
12:U:105:SER:O	12:U:106:CYS:HB3	1.85	0.75
2:5:20:DC:H4'	4:M:447:GLN:HE22	1.49	0.75
4:A:385:ILE:HG22	4:A:386:ASP:N	2.00	0.75
4:A:567:LYS:HE3	11:H:46:LEU:HB2	1.67	0.75
5:B:955:THR:HG22	5:B:956:THR:N	1.99	0.75
4:M:450:LEU:H	4:M:450:LEU:HD12	1.51	0.75
12:U:7:CYS:HB3	12:U:14:LEU:HD21	1.67	0.75
4:A:58:LEU:CG	4:A:59:GLY:H	1.98	0.75
8:E:153:HIS:HB3	8:E:196:VAL:HG11	1.68	0.75
10:G:138:THR:HG22	10:G:139:ILE:N	2.00	0.75
11:H:102:TYR:OH	11:H:122:LEU:HD22	1.87	0.75
5:B:1197:PRO:HG2	5:B:1200:ALA:HB2	1.67	0.75
4:M:541:ILE:HD13	4:M:549:MET:CE	2.14	0.75
5:N:737:THR:HG21	12:U:66:PRO:HA	1.67	0.75
7:P:185:CYS:HB2	7:P:211:LEU:HD22	1.68	0.75
4:A:1244:ARG:HB3	4:A:1245:PRO:HD2	1.69	0.75
6:C:147:LEU:HB2	6:C:151:GLN:HB2	1.69	0.75
4:M:308:ILE:HG22	4:M:309:ALA:H	1.52	0.75
4:M:1424:VAL:HG13	4:M:1436:ILE:CD1	2.16	0.75
5:N:975:GLN:O	5:N:990:ILE:HD12	1.86	0.75
6:O:164:ALA:HA	6:O:167:HIS:O	1.86	0.75
6:O:166:GLU:HG3	14:W:10:PHE:CZ	2.18	0.75
4:A:821:ARG:HB2	4:A:821:ARG:HH11	1.51	0.75
5:B:217:ARG:NE	5:B:405:ARG:HB2	2.01	0.75
7:D:40:HIS:CB	10:G:73:LYS:HZ3	1.99	0.75
4:M:512:VAL:HA	4:M:519:PRO:HA	1.67	0.75
4:A:34:LYS:HE3	4:A:57:ARG:HH12	1.52	0.75
13:J:16:ASP:OD1	13:J:17:LYS:HD2	1.86	0.75
4:M:58:LEU:HD21	4:M:243:PRO:CA	2.16	0.75
4:M:67:CYS:O	4:M:70:CYS:HB3	1.85	0.75
4:M:768:GLN:CG	4:M:816:HIS:HA	2.16	0.75
6:O:44:LEU:HB2	6:O:77:ILE:HD11	1.67	0.75
4:A:384:ASN:OD1	4:A:388:LEU:HD12	1.86	0.75
13:J:36:LEU:HD12	13:J:47:ARG:NH1	2.02	0.75
4:M:866:PHE:C	4:M:867:ILE:HD12	2.12	0.75
10:S:119:LEU:HD12	10:S:131:GLN:O	1.87	0.75
2:2:15:DT:H2''	2:2:16:DT:H71	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1035:TYR:O	4:A:1037:LEU:N	2.20	0.74
5:B:1177:HIS:HB2	5:B:1179:GLN:HE21	1.52	0.74
6:C:35:ARG:NH1	14:K:41:THR:H	1.84	0.74
4:M:58:LEU:HD13	4:M:80:HIS:O	1.87	0.74
5:N:232:SER:HB3	5:N:261:ARG:NH2	1.99	0.74
5:N:579:ARG:HB2	5:N:586:TRP:NE1	2.02	0.74
3:6:5:C:H2'	3:6:6:C:C6	2.21	0.74
4:A:547:LEU:HD22	14:K:58:PHE:CD1	2.22	0.74
4:A:897:TYR:HD2	4:A:936:LEU:HD13	1.52	0.74
6:O:133:ILE:HD11	6:O:237:SER:HA	1.67	0.74
7:P:130:LEU:C	7:P:132:GLN:H	1.94	0.74
5:B:434:ARG:O	5:B:437:GLU:HB2	1.87	0.74
5:B:515:HIS:HD2	5:B:517:THR:H	1.35	0.74
5:B:1007:VAL:HG22	5:B:1008:PRO:HD2	1.68	0.74
4:M:427:GLN:HG3	4:M:430:TRP:CZ2	2.22	0.74
6:O:67:LEU:HD11	6:O:155:LEU:CD1	2.17	0.74
10:S:111:THR:HG22	10:S:113:HIS:H	1.52	0.74
6:C:44:LEU:HB2	6:C:77:ILE:HD11	1.68	0.74
5:N:114:PRO:HG2	5:N:115:GLN:H	1.53	0.74
10:S:1:MET:SD	10:S:79:PHE:HD1	2.11	0.74
4:A:844:ALA:O	4:A:845:LEU:HD23	1.86	0.74
4:M:858:ASN:ND2	4:M:860:LEU:H	1.85	0.74
5:N:280:ILE:HD13	5:N:334:ILE:HG12	1.69	0.74
7:P:48:ILE:HG21	10:S:4:ILE:HB	1.69	0.74
14:W:65:HIS:CD2	14:W:67:PHE:H	2.01	0.74
4:A:463:ILE:HB	4:A:464:PRO:HD2	1.68	0.74
4:A:1424:VAL:HG13	4:A:1436:ILE:CD1	2.18	0.74
8:E:198:ILE:CD1	8:E:212:ARG:HG3	2.17	0.74
4:M:385:ILE:HG22	4:M:386:ASP:N	2.02	0.74
4:M:1094:VAL:CG1	4:M:1095:THR:H	1.99	0.74
4:M:1100:ARG:HH21	4:M:1351:GLU:HG2	1.52	0.74
4:A:61:ILE:HG22	4:A:62:ASP:H	1.51	0.74
4:A:249:SER:O	4:A:250:ILE:HG13	1.86	0.74
5:B:1159:ARG:HB3	5:B:1159:ARG:HH11	1.51	0.74
4:M:1116:LEU:N	4:M:1308:THR:HG22	2.02	0.74
5:N:579:ARG:HB2	5:N:586:TRP:HE1	1.53	0.74
5:N:821:GLN:HE22	5:N:851:PHE:HA	1.52	0.74
4:M:18:GLN:HB2	5:N:1215:ARG:HB2	1.68	0.74
11:T:59:ILE:HG22	11:T:60:ALA:N	2.02	0.74
5:B:343:ILE:HG21	5:B:348:ARG:N	2.01	0.74
12:I:111:THR:HG22	12:I:112:SER:H	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:579:ARG:HB2	5:B:586:TRP:NE1	2.02	0.74
5:B:1085:ILE:N	5:B:1085:ILE:HD12	2.02	0.74
11:H:130:ARG:H	11:H:130:ARG:HD2	1.51	0.74
5:N:569:TYR:CE1	5:N:589:VAL:HG21	2.22	0.74
5:N:834:ASN:HB3	5:N:840:ILE:HG13	1.69	0.74
5:N:1197:PRO:HG2	5:N:1200:ALA:HB2	1.68	0.74
11:T:61:SER:O	11:T:62:SER:HB3	1.88	0.74
4:A:53:LEU:HD22	4:A:54:ASN:HD22	1.53	0.73
5:B:351:TYR:O	5:B:355:ILE:HG13	1.87	0.73
5:B:589:VAL:HG12	5:B:590:HIS:N	2.02	0.73
5:B:902:GLY:O	15:L:65:VAL:HG11	1.88	0.73
4:M:63:ARG:HA	4:M:74:MET:SD	2.28	0.73
4:M:463:ILE:HB	4:M:464:PRO:HD2	1.69	0.73
4:M:567:LYS:CB	11:T:95:TYR:HA	2.17	0.73
4:M:567:LYS:HD3	11:T:95:TYR:CD2	2.23	0.73
5:N:515:HIS:HD2	5:N:517:THR:H	1.33	0.73
5:N:842:ASN:ND2	5:N:845:SER:H	1.86	0.73
1:4:5:DA:HI'	1:4:6:DC:O5'	1.87	0.73
4:A:308:ILE:HG22	4:A:309:ALA:H	1.50	0.73
4:A:512:VAL:HA	4:A:519:PRO:HA	1.68	0.73
5:B:280:ILE:HD13	5:B:334:ILE:HG12	1.70	0.73
5:B:1172:ILE:HG22	5:B:1172:ILE:O	1.87	0.73
10:G:23:LYS:HG3	10:G:56:ILE:HD11	1.70	0.73
4:M:1341:ILE:HD12	4:M:1379:GLY:O	1.88	0.73
5:N:847:ASP:HB3	6:O:167:HIS:CD2	2.23	0.73
5:N:953:LEU:HD21	5:N:965:LYS:HB2	1.70	0.73
7:P:22:GLU:CD	7:P:22:GLU:H	1.95	0.73
7:P:176:GLU:C	7:P:178:ALA:H	1.95	0.73
4:A:868:TYR:HD2	4:A:1058:VAL:HG21	1.52	0.73
6:C:33:LEU:HG	6:C:37:MET:HE2	1.71	0.73
15:L:32:ALA:HB3	15:L:55:ILE:HD12	1.68	0.73
4:M:269:ILE:HD13	4:M:300:VAL:HG22	1.69	0.73
4:M:412:ARG:NH2	5:N:1108:ARG:NH1	2.36	0.73
5:N:995:ARG:HH12	6:O:165:LYS:HG2	1.54	0.73
6:O:253:LYS:O	6:O:256:ALA:HB3	1.87	0.73
5:B:1197:PRO:HG2	5:B:1200:ALA:CB	2.19	0.73
6:C:253:LYS:O	6:C:256:ALA:HB3	1.88	0.73
4:M:164:ARG:HG3	4:M:165:GLY:N	2.02	0.73
4:M:1171:GLN:HA	4:M:1174:PHE:CD1	2.22	0.73
5:N:247:GLY:C	5:N:249:ARG:H	1.93	0.73
5:N:1202:LEU:O	5:N:1206:GLU:HG3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P:40:HIS:CB	10:S:73:LYS:HZ3	2.00	0.73
12:U:111:THR:HG22	12:U:112:SER:N	2.03	0.73
1:1:5:DA:H1'	1:1:6:DC:O5'	1.88	0.73
4:A:239:LEU:HD12	4:A:240:PRO:HD2	1.71	0.73
10:G:14:HIS:HD2	10:G:16:SER:HB2	1.53	0.73
4:A:1336:MET:HE3	4:A:1381:LEU:HG	1.69	0.73
5:B:44:VAL:HG11	5:B:199:MET:HG2	1.69	0.73
5:N:789:MET:HE2	5:N:953:LEU:HD22	1.71	0.73
5:N:857:ARG:HD2	5:N:945:GLU:OE1	1.89	0.73
5:N:955:THR:HG22	5:N:956:THR:N	2.02	0.73
4:A:1343:ALA:HB2	8:E:150:VAL:HG22	1.71	0.73
5:B:343:ILE:CG2	5:B:347:LYS:HB2	2.09	0.73
5:B:708:GLU:O	5:B:710:LEU:N	2.21	0.73
5:N:39:ARG:NH2	5:N:665:GLU:HG2	2.02	0.73
10:S:23:LYS:HG3	10:S:56:ILE:CD1	2.19	0.73
4:M:254:GLU:HB2	5:N:935:ARG:NH1	2.03	0.73
4:M:1015:VAL:HG12	4:M:1019:CYS:SG	2.29	0.73
7:P:40:HIS:CB	10:S:73:LYS:NZ	2.51	0.73
10:S:128:PRO:O	10:S:138:THR:HG23	1.89	0.73
15:X:30:ILE:O	15:X:56:LEU:HA	1.89	0.73
4:A:58:LEU:HD13	4:A:80:HIS:O	1.89	0.73
4:A:897:TYR:CD2	4:A:936:LEU:HD13	2.24	0.73
10:G:153:GLN:HG2	10:G:154:VAL:HG23	1.71	0.73
4:A:340:LEU:HD13	4:A:1429:ILE:HG23	1.70	0.72
4:A:567:LYS:CB	11:H:95:TYR:HA	2.19	0.72
5:B:343:ILE:HG23	5:B:347:LYS:CB	2.09	0.72
5:B:1084:GLN:NE2	5:B:1084:GLN:H	1.85	0.72
7:D:66:ARG:HD2	7:D:133:THR:HB	1.71	0.72
9:F:69:LEU:HA	9:F:70:LYS:N	2.03	0.72
15:L:30:ILE:O	15:L:56:LEU:HA	1.88	0.72
4:M:472:LEU:O	4:M:475:THR:HB	1.88	0.72
9:R:82:THR:HG22	9:R:84:TYR:N	2.04	0.72
4:A:55:ASP:N	4:A:56:PRO:HD3	2.04	0.72
4:A:783:THR:HG21	4:A:815:PHE:CZ	2.24	0.72
4:A:1036:ARG:HG2	4:A:1036:ARG:HH11	1.53	0.72
5:B:171:PRO:HD2	5:B:457:LEU:HD13	1.71	0.72
5:B:309:GLN:OE1	12:I:52:ILE:HD11	1.89	0.72
5:B:850:LEU:HD12	5:B:851:PHE:N	2.04	0.72
6:C:186:LEU:HD21	6:C:224:GLN:O	1.89	0.72
4:M:1341:ILE:HG23	4:M:1342:GLU:N	2.04	0.72
5:N:879:ARG:NH1	5:N:883:LEU:HD22	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:103:MET:O	9:R:104:ASN:HB2	1.89	0.72
3:3:5:C:H2'	3:3:6:C:C6	2.24	0.72
4:A:50:ILE:C	4:A:52:GLY:H	1.96	0.72
4:A:1394:THR:HG21	4:A:1398:MET:SD	2.29	0.72
5:B:247:GLY:C	5:B:249:ARG:H	1.94	0.72
6:C:66:ARG:NH2	13:J:5:VAL:HG23	2.02	0.72
14:K:49:GLU:HG3	14:K:94:ILE:HG12	1.70	0.72
4:M:265:LYS:H	4:M:265:LYS:HD2	1.53	0.72
5:N:882:THR:HG22	5:N:884:ARG:N	2.01	0.72
5:N:1084:GLN:H	5:N:1084:GLN:HE21	1.37	0.72
4:A:326:ARG:HH22	4:A:1407:GLU:HG3	1.54	0.72
4:A:798:GLY:HA2	4:A:815:PHE:CD1	2.24	0.72
4:A:913:LEU:HD12	4:A:914:GLU:N	2.04	0.72
13:J:14:VAL:O	13:J:14:VAL:HG12	1.89	0.72
7:P:47:LEU:HD13	7:P:48:ILE:N	2.04	0.72
3:3:3:G:H2'	3:3:4:A:C8	2.24	0.72
4:A:49:LYS:NZ	4:A:61:ILE:HG13	2.04	0.72
4:A:537:ARG:HD2	11:H:20:TYR:HE1	1.52	0.72
4:A:567:LYS:HD3	11:H:95:TYR:CD2	2.25	0.72
4:A:1372:VAL:O	4:A:1376:THR:HG22	1.89	0.72
4:M:144:THR:O	4:M:146:MET:HG3	1.89	0.72
4:M:528:LEU:O	4:M:531:ILE:HG22	1.88	0.72
4:M:1100:ARG:HH21	4:M:1351:GLU:CG	2.03	0.72
5:N:710:LEU:HA	5:N:733:HIS:HB3	1.72	0.72
8:Q:117:THR:HG22	8:Q:119:SER:H	1.52	0.72
4:A:466:SER:O	5:B:1103:ILE:HD11	1.89	0.72
4:A:591:PHE:HA	4:A:595:THR:HG21	1.72	0.72
4:A:1341:ILE:HG23	4:A:1342:GLU:N	2.05	0.72
5:B:821:GLN:NE2	5:B:851:PHE:HA	2.03	0.72
6:C:67:LEU:HD11	6:C:155:LEU:CD1	2.20	0.72
9:F:103:MET:O	9:F:104:ASN:HB2	1.89	0.72
4:M:1028:THR:O	4:M:1032:LEU:HD12	1.89	0.72
4:M:1437:GLY:O	4:M:1439:GLY:N	2.23	0.72
5:N:1023:VAL:O	5:N:1026:LEU:HB2	1.89	0.72
10:S:23:LYS:HG3	10:S:56:ILE:HD11	1.70	0.72
11:T:42:ILE:HG23	11:T:95:TYR:HE1	1.54	0.72
4:A:93:VAL:HG22	4:A:301:ALA:HA	1.72	0.72
4:A:1332:PHE:H	4:A:1332:PHE:HD2	1.36	0.72
4:M:58:LEU:CD1	4:M:80:HIS:H	2.02	0.72
4:M:326:ARG:HH22	4:M:1407:GLU:HG3	1.54	0.72
4:M:549:MET:SD	4:M:577:ILE:HD11	2.30	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:37:PHE:CE1	5:N:41:LYS:HG3	2.25	0.72
5:N:378:LEU:O	5:N:382:ILE:HG13	1.89	0.72
4:A:215:SER:HB3	4:A:218:ASP:OD2	1.90	0.72
5:B:336:ARG:HD3	5:B:348:ARG:NH1	2.04	0.72
5:B:847:ASP:HB3	6:C:167:HIS:CD2	2.25	0.72
6:C:35:ARG:NH1	14:K:41:THR:N	2.38	0.72
8:E:153:HIS:HB3	8:E:196:VAL:CG1	2.18	0.72
14:K:45:LEU:HG	14:K:94:ILE:HD13	1.72	0.72
4:M:903:ASN:HD22	4:M:903:ASN:C	1.97	0.72
5:N:542:MET:HE3	5:N:636:PRO:HG3	1.69	0.72
5:N:850:LEU:HD12	5:N:851:PHE:N	2.03	0.72
6:O:232:VAL:HG21	6:O:244:VAL:HG22	1.70	0.72
9:R:79:ARG:HG3	9:R:144:GLU:OE1	1.89	0.72
5:B:359:GLU:O	5:B:362:PRO:HD3	1.90	0.72
4:M:93:VAL:HG22	4:M:301:ALA:HA	1.72	0.72
5:N:1069:PHE:HA	5:N:1085:ILE:O	1.90	0.72
7:P:130:LEU:O	7:P:132:GLN:N	2.20	0.72
7:P:159:THR:O	7:P:163:VAL:HG23	1.89	0.72
8:Q:153:HIS:HB3	8:Q:196:VAL:HG11	1.72	0.72
8:Q:177:ARG:HD3	8:Q:215:MET:HG3	1.72	0.72
4:A:1206:ASP:HB3	4:A:1274:ARG:HH12	1.53	0.72
4:M:856:THR:HB	4:M:865:GLN:HB2	1.70	0.72
6:O:213:PRO:O	6:O:214:ASN:HB2	1.88	0.72
3:3:5:C:H2'	3:3:6:C:H6	1.53	0.71
4:A:106:VAL:HG13	4:A:112:LYS:O	1.89	0.71
4:M:164:ARG:HG3	4:M:165:GLY:H	1.55	0.71
4:M:701:LEU:HA	12:U:115:LYS:HE3	1.72	0.71
5:N:278:GLN:HG2	5:N:279:ASP:H	1.55	0.71
5:N:343:ILE:CG2	5:N:347:LYS:HB2	2.10	0.71
15:X:38:LEU:O	15:X:39:SER:HB3	1.90	0.71
4:A:34:LYS:H	4:A:57:ARG:NH2	1.88	0.71
4:A:341:MET:HE1	5:B:1135:ARG:NH1	2.05	0.71
4:A:472:LEU:O	4:A:475:THR:HB	1.89	0.71
4:A:1015:VAL:HG12	4:A:1019:CYS:SG	2.30	0.71
5:B:515:HIS:H	5:B:518:HIS:CD2	2.08	0.71
4:M:901:LEU:HB2	4:M:926:GLN:HG2	1.72	0.71
5:N:589:VAL:HG12	5:N:590:HIS:N	2.04	0.71
5:N:902:GLY:O	15:X:65:VAL:HG11	1.91	0.71
5:B:1180:PHE:HB3	5:B:1191:ILE:CD1	2.20	0.71
4:M:384:ASN:O	4:M:385:ILE:C	2.34	0.71
11:T:130:ARG:H	11:T:130:ARG:HD2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:58:LEU:HD12	4:A:59:GLY:N	2.06	0.71
4:M:341:MET:HE2	4:M:843:LYS:NZ	2.06	0.71
4:M:567:LYS:NZ	11:T:46:LEU:HB2	2.06	0.71
4:M:1332:PHE:H	4:M:1332:PHE:HD2	1.38	0.71
5:N:549:THR:H	5:N:628:THR:HG23	1.54	0.71
5:N:705:MET:HE2	5:N:745:PRO:HB3	1.72	0.71
6:O:90:ASP:O	6:O:91:HIS:HB3	1.89	0.71
7:D:47:LEU:HD13	7:D:48:ILE:N	2.05	0.71
8:E:22:MET:HE3	8:E:26:ARG:HH21	1.55	0.71
4:M:49:LYS:NZ	4:M:61:ILE:HG13	2.06	0.71
5:N:25:ILE:HD11	5:N:653:VAL:O	1.90	0.71
5:N:121:ASN:HA	5:N:207:GLY:HA2	1.71	0.71
4:A:89:PRO:HB2	4:A:204:THR:HG22	1.72	0.71
4:A:1161:THR:HG22	4:A:1163:ILE:N	2.05	0.71
4:A:1348:LEU:HG	4:A:1372:VAL:CG2	2.20	0.71
5:B:120:ARG:HG2	5:B:955:THR:HG21	1.71	0.71
5:B:1099:VAL:CG1	5:B:1100:ASP:N	2.53	0.71
6:C:212:PRO:HB3	6:C:213:PRO:HD2	1.72	0.71
5:N:1087:PHE:HD2	5:N:1088:GLY:N	1.88	0.71
12:I:25:LEU:HB3	12:I:38:ALA:HB2	1.71	0.71
4:A:340:LEU:HD21	5:B:1200:ALA:N	2.06	0.71
5:B:953:LEU:HD23	5:B:953:LEU:O	1.90	0.71
6:C:133:ILE:CD1	6:C:237:SER:HA	2.21	0.71
10:G:9:LEU:HD12	10:G:10:ASN:H	1.53	0.71
10:G:23:LYS:HG3	10:G:56:ILE:CD1	2.20	0.71
11:H:42:ILE:HG23	11:H:95:TYR:HE1	1.55	0.71
4:M:886:ILE:HD11	4:M:943:LEU:HB3	1.73	0.71
4:M:1206:ASP:HB3	4:M:1274:ARG:HH12	1.55	0.71
5:N:622:LYS:HE2	12:U:59:VAL:HG22	1.72	0.71
4:A:1171:GLN:HA	4:A:1174:PHE:CD1	2.25	0.71
4:M:414:ASP:OD1	4:M:416:ARG:HG2	1.89	0.71
5:N:824:ILE:CG2	5:N:1087:PHE:HE2	1.99	0.71
4:A:528:LEU:O	4:A:531:ILE:HG22	1.90	0.71
14:K:6:ARG:O	14:K:9:LEU:HG	1.89	0.71
4:M:68:GLN:C	4:M:70:CYS:H	1.98	0.71
4:M:567:LYS:HD3	11:T:95:TYR:CG	2.26	0.71
5:N:35:SER:O	5:N:39:ARG:HG3	1.90	0.71
5:N:37:PHE:CD1	5:N:41:LYS:HG3	2.26	0.71
5:N:1172:ILE:O	5:N:1172:ILE:HG22	1.91	0.71
6:O:46:ILE:HG13	6:O:72:LEU:HD11	1.73	0.71
5:B:882:THR:HG22	5:B:884:ARG:N	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1076:ALA:HA	4:M:1079:MET:HE2	1.72	0.70
4:A:254:GLU:HB2	5:B:935:ARG:NH1	2.04	0.70
4:A:1370:LEU:O	4:A:1374:VAL:HG23	1.91	0.70
14:W:61:TYR:C	14:W:61:TYR:CD2	2.68	0.70
4:A:353:ILE:CD1	4:A:487:MET:HE2	2.22	0.70
4:A:567:LYS:CE	11:H:46:LEU:HB2	2.21	0.70
5:B:807:ARG:HG2	5:B:1045:SER:OG	1.91	0.70
10:G:1:MET:SD	10:G:79:PHE:CD1	2.84	0.70
11:H:4:THR:HA	11:H:60:ALA:CB	2.20	0.70
4:M:35:ILE:O	4:M:35:ILE:HG22	1.91	0.70
5:N:798:TYR:HE2	6:O:62:PHE:CZ	2.10	0.70
5:N:1161:HIS:NE2	5:N:1175:LEU:HD21	2.06	0.70
4:A:567:LYS:NZ	11:H:46:LEU:HB2	2.06	0.70
11:H:84:ALA:CA	11:H:87:ARG:HB2	2.20	0.70
4:M:1006:ILE:HD12	8:Q:163:GLU:HG3	1.72	0.70
4:M:1244:ARG:HB3	4:M:1245:PRO:HD2	1.74	0.70
10:S:138:THR:HG22	10:S:139:ILE:N	2.05	0.70
12:U:34:TYR:HE2	12:U:36:GLU:HB3	1.56	0.70
4:A:881:GLN:NE2	4:A:958:VAL:O	2.23	0.70
4:A:1155:ASP:OD2	4:A:1161:THR:HG23	1.91	0.70
5:B:770:GLN:CD	5:B:983:ARG:HA	2.16	0.70
4:M:897:TYR:HD2	4:M:936:LEU:HD13	1.55	0.70
10:S:153:GLN:HG2	10:S:154:VAL:HG23	1.74	0.70
13:V:36:LEU:HD12	13:V:47:ARG:NH1	2.07	0.70
4:A:92:HIS:O	4:A:94:GLY:N	2.25	0.70
6:C:164:ALA:HA	6:C:167:HIS:O	1.91	0.70
7:D:53:SER:HB3	7:D:152:SER:CB	2.22	0.70
12:I:111:THR:HG22	12:I:112:SER:N	2.06	0.70
4:M:899:VAL:HB	4:M:929:LEU:CD1	2.21	0.70
5:N:36:ALA:HA	5:N:39:ARG:HD2	1.73	0.70
8:Q:124:VAL:HG13	8:Q:132:ILE:HB	1.74	0.70
4:A:14:VAL:HG21	5:B:1216:LEU:HD13	1.72	0.70
4:A:1063:MET:HG3	4:A:1436:ILE:HG23	1.73	0.70
5:B:863:GLU:OE2	5:B:873:THR:HA	1.92	0.70
8:E:117:THR:HG22	8:E:119:SER:H	1.55	0.70
4:M:852:TYR:CD2	4:M:1060:PRO:HB2	2.26	0.70
5:N:955:THR:HG22	5:N:956:THR:H	1.57	0.70
5:N:1065:GLN:HG3	5:N:1067:ARG:H	1.56	0.70
4:A:537:ARG:HD2	11:H:20:TYR:CE1	2.27	0.70
5:B:18:PHE:N	5:B:19:GLU:N	2.40	0.70
5:B:879:ARG:NH1	5:B:883:LEU:HD22	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:906:SER:O	5:B:941:LEU:HD23	1.92	0.70
5:B:1223:ASP:O	5:B:1224:PHE:HB2	1.90	0.70
4:M:69:THR:C	4:M:71:GLN:H	1.98	0.70
5:N:1099:VAL:CG1	5:N:1100:ASP:N	2.54	0.70
11:T:84:ALA:CA	11:T:87:ARG:HB2	2.20	0.70
4:A:335:ARG:HA	4:A:339:ASN:HB2	1.74	0.70
5:B:361:LEU:HD21	5:B:377:PHE:CD2	2.26	0.70
5:B:842:ASN:HD22	5:B:845:SER:CB	2.04	0.70
6:C:263:THR:C	6:C:265:MET:H	1.99	0.70
4:M:34:LYS:H	4:M:57:ARG:NH2	1.89	0.70
4:M:902:LEU:HG	4:M:926:GLN:HG3	1.74	0.70
4:M:1004:ASN:ND2	8:Q:167:ARG:HD2	2.06	0.70
5:N:336:ARG:HH22	5:N:345:LYS:CE	2.03	0.70
14:W:42:LEU:O	14:W:46:ILE:HG13	1.91	0.70
4:A:902:LEU:HG	4:A:926:GLN:HG3	1.72	0.70
4:A:1342:GLU:OE2	8:E:212:ARG:NH1	2.25	0.70
5:B:39:ARG:NH2	5:B:665:GLU:HG2	2.06	0.70
5:B:273:LEU:CB	5:B:276:ILE:HD12	2.16	0.70
6:C:133:ILE:HD11	6:C:237:SER:HA	1.74	0.70
4:M:58:LEU:HD12	4:M:59:GLY:N	2.04	0.70
5:N:465:ASN:HD22	5:N:465:ASN:N	1.88	0.70
5:N:971:THR:OG1	6:O:61:GLU:HG3	1.92	0.70
6:O:212:PRO:HB3	6:O:213:PRO:HD2	1.72	0.70
4:A:23:SER:HA	4:A:233:TRP:CD1	2.27	0.69
4:A:714:PHE:HB2	12:I:97:MET:HE1	1.74	0.69
4:A:853:ASP:OD1	4:A:855:THR:HB	1.92	0.69
5:B:710:LEU:HA	5:B:733:HIS:HB3	1.74	0.69
5:B:737:THR:HG21	12:I:66:PRO:HA	1.73	0.69
5:B:918:ILE:HB	5:B:935:ARG:HD2	1.74	0.69
4:M:1155:ASP:OD2	4:M:1161:THR:HG23	1.92	0.69
5:N:1017:ILE:HB	5:N:1018:PRO:HD3	1.74	0.69
4:A:49:LYS:HE2	4:A:61:ILE:HD12	1.74	0.69
4:A:590:ARG:HG3	4:A:590:ARG:NH1	2.07	0.69
4:A:1116:LEU:N	4:A:1308:THR:HG22	2.06	0.69
5:B:112:LEU:HD12	5:B:113:TYR:H	1.56	0.69
6:C:35:ARG:HH12	14:K:41:THR:H	1.40	0.69
9:F:82:THR:HG22	9:F:84:TYR:N	2.04	0.69
4:M:53:LEU:HD22	4:M:54:ASN:HD22	1.57	0.69
4:M:249:SER:O	4:M:250:ILE:HG13	1.91	0.69
6:O:29:MET:HE2	14:W:98:LEU:HD21	1.72	0.69
4:A:414:ASP:OD1	4:A:416:ARG:HG2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:630:ILE:HD13	4:A:646:PHE:CZ	2.27	0.69
5:B:278:GLN:HG2	5:B:279:ASP:H	1.57	0.69
5:B:336:ARG:NH2	5:B:345:LYS:HE2	2.05	0.69
9:F:138:LEU:HB3	9:F:139:PRO:HD2	1.74	0.69
10:G:59:GLY:HA3	10:G:70:PHE:CD2	2.28	0.69
4:M:901:LEU:N	4:M:926:GLN:NE2	2.37	0.69
4:A:58:LEU:HD21	4:A:244:PRO:HD2	1.74	0.69
4:A:164:ARG:HG3	4:A:165:GLY:N	2.06	0.69
5:N:1084:GLN:NE2	5:N:1084:GLN:N	2.39	0.69
4:A:58:LEU:HG	4:A:59:GLY:N	2.07	0.69
4:A:525:GLN:HG3	5:B:835:GLN:HG2	1.73	0.69
11:H:40:LEU:HD13	11:H:123:MET:HB2	1.75	0.69
7:P:29:LEU:HD22	10:S:82:PHE:CE2	2.28	0.69
14:W:47:ARG:HB3	14:W:47:ARG:NH1	2.06	0.69
1:4:1:DA:H1'	1:4:2:DA:C5'	2.20	0.69
4:A:1409:LEU:HD13	5:B:1207:LEU:HD11	1.72	0.69
5:B:37:PHE:CE1	5:B:41:LYS:HG3	2.28	0.69
5:B:745:PRO:O	5:B:748:ILE:HG12	1.93	0.69
4:M:699:ALA:CB	4:M:701:LEU:HG	2.22	0.69
4:M:741:ASN:HD22	4:M:744:LYS:H	1.41	0.69
5:N:496:ARG:HB3	5:N:496:ARG:HH11	1.58	0.69
6:O:226:ASP:O	6:O:227:THR:HB	1.92	0.69
4:A:265:LYS:NZ	4:A:322:VAL:HG22	2.08	0.69
4:A:325:ILE:HG21	5:B:1210:MET:HG3	1.74	0.69
4:A:1424:VAL:HG11	5:B:1139:ILE:HD13	1.73	0.69
5:B:516:ASN:N	5:B:516:ASN:ND2	2.40	0.69
6:C:39:ALA:CA	6:C:164:ALA:HB3	2.22	0.69
7:D:130:LEU:O	7:D:132:GLN:N	2.23	0.69
14:K:60:ALA:O	14:K:73:LEU:HD12	1.93	0.69
4:M:340:LEU:HD21	5:N:1200:ALA:N	2.07	0.69
5:N:859:TYR:OH	5:N:941:LEU:HD12	1.92	0.69
8:Q:192:ARG:HH11	8:Q:192:ARG:HG3	1.57	0.69
2:2:27:DA:H2''	2:2:28:DT:OP2	1.90	0.69
4:A:903:ASN:HD22	4:A:903:ASN:C	2.00	0.69
5:B:622:LYS:HE2	12:I:59:VAL:HG22	1.73	0.69
4:M:325:ILE:HG21	5:N:1210:MET:HG3	1.75	0.69
4:M:588:LEU:O	4:M:606:LEU:HA	1.92	0.69
5:N:120:ARG:HG2	5:N:955:THR:HG21	1.73	0.69
5:N:815:ARG:HD3	5:N:1041:GLU:OE2	1.93	0.69
4:A:399:HIS:O	4:A:401:GLY:N	2.25	0.69
5:B:189:LEU:O	5:B:192:LEU:N	2.19	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:953:LEU:HD21	5:B:965:LYS:HB2	1.75	0.69
11:H:41:ASP:O	11:H:42:ILE:HG13	1.93	0.69
6:O:263:THR:C	6:O:265:MET:H	2.01	0.69
7:P:134:THR:HG22	7:P:135:GLY:N	2.08	0.69
13:V:44:TYR:HA	13:V:47:ARG:CB	2.23	0.69
6:C:244:VAL:O	6:C:248:ILE:HG13	1.93	0.69
7:D:7:THR:HB	10:G:42:PHE:CE2	2.28	0.69
6:O:36:VAL:HG21	6:O:251:LEU:HB2	1.75	0.69
9:R:85:MET:HE2	9:R:93:ILE:CD1	2.22	0.69
12:U:103:CYS:HB3	12:U:106:CYS:SG	2.33	0.69
4:A:253:ASN:HB3	5:B:935:ARG:CZ	2.23	0.68
4:A:1187:GLN:O	4:A:1243:VAL:HG13	1.93	0.68
4:A:1329:THR:CG2	4:A:1331:SER:H	2.05	0.68
5:B:38:PHE:HD1	5:B:811:TYR:CD2	2.11	0.68
5:B:467:GLY:H	5:B:475:SER:CB	2.05	0.68
5:B:615:MET:C	5:B:616:ILE:HD12	2.18	0.68
4:M:55:ASP:N	4:M:56:PRO:HD3	2.08	0.68
5:N:516:ASN:N	5:N:516:ASN:ND2	2.40	0.68
4:A:87:ALA:CB	4:A:276:LEU:HD23	2.23	0.68
4:A:341:MET:HE2	4:A:843:LYS:NZ	2.09	0.68
4:A:405:VAL:HG22	4:A:432:VAL:HG13	1.76	0.68
4:A:567:LYS:HD3	11:H:95:TYR:CG	2.28	0.68
4:A:741:ASN:HD22	4:A:744:LYS:H	1.41	0.68
5:B:35:SER:O	5:B:39:ARG:HG3	1.93	0.68
15:L:58:LYS:O	15:L:58:LYS:HG2	1.92	0.68
4:M:55:ASP:C	4:M:57:ARG:H	1.99	0.68
4:M:254:GLU:CB	5:N:935:ARG:HH12	2.04	0.68
4:M:896:ARG:HD3	4:M:897:TYR:CE1	2.28	0.68
4:A:254:GLU:O	4:A:256:GLN:N	2.27	0.68
5:B:37:PHE:CD1	5:B:41:LYS:HG3	2.29	0.68
5:B:569:TYR:CE1	5:B:589:VAL:HG21	2.28	0.68
6:C:66:ARG:NH2	13:J:3:VAL:O	2.26	0.68
8:E:124:VAL:HG13	8:E:132:ILE:HB	1.76	0.68
8:E:157:SER:OG	8:E:160:GLU:HG3	1.94	0.68
4:M:69:THR:O	4:M:71:GLN:N	2.26	0.68
4:M:743:VAL:O	4:M:747:VAL:HG23	1.92	0.68
4:M:960:ILE:O	4:M:963:ILE:HG22	1.93	0.68
8:Q:9:ILE:HD11	8:Q:53:PRO:HD3	1.74	0.68
12:U:55:THR:HG21	12:U:109:ILE:HD13	1.75	0.68
15:X:53:HIS:HB3	15:X:55:ILE:CD1	2.22	0.68
4:A:58:LEU:CD1	4:A:80:HIS:H	2.05	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:63:ARG:HA	4:A:74:MET:CE	2.23	0.68
5:B:378:LEU:O	5:B:382:ILE:HG13	1.93	0.68
5:B:557:PHE:C	5:B:557:PHE:CD2	2.70	0.68
4:M:567:LYS:HG3	4:M:568:PRO:HD2	1.76	0.68
4:M:897:TYR:CD2	4:M:936:LEU:HD13	2.29	0.68
5:N:899:ILE:CD1	5:N:911:ILE:HA	2.23	0.68
6:O:133:ILE:CD1	6:O:237:SER:HA	2.23	0.68
14:W:31:VAL:HG12	14:W:32:VAL:N	2.08	0.68
4:A:144:THR:O	4:A:146:MET:HG3	1.93	0.68
4:A:450:LEU:H	4:A:450:LEU:HD12	1.59	0.68
4:A:1116:LEU:HB2	4:A:1329:THR:OG1	1.94	0.68
5:B:860:MET:HG2	5:B:861:ASP:N	2.08	0.68
6:C:238:ILE:CG2	6:C:242:GLN:HB2	2.24	0.68
12:I:103:CYS:HB3	12:I:106:CYS:SG	2.32	0.68
14:K:31:VAL:HG12	14:K:32:VAL:N	2.08	0.68
4:M:14:VAL:HG21	5:N:1216:LEU:HD13	1.76	0.68
4:M:346:ASP:HB3	5:N:1108:ARG:H	1.58	0.68
7:D:134:THR:HG22	7:D:135:GLY:N	2.07	0.68
4:M:500:GLU:OE1	5:N:1143:ALA:C	2.36	0.68
4:M:504:LEU:HD11	9:R:91:ALA:HB1	1.74	0.68
4:M:728:LYS:O	4:M:732:LEU:HG	1.93	0.68
4:M:1329:THR:CG2	4:M:1331:SER:H	2.06	0.68
4:A:69:THR:C	4:A:71:GLN:H	2.01	0.68
4:A:384:ASN:O	4:A:385:ILE:C	2.37	0.68
14:K:111:LEU:C	14:K:112:GLN:CG	2.64	0.68
5:N:100:PRO:HD2	5:N:180:TYR:HE1	1.59	0.68
5:N:637:LEU:HD12	5:N:693:ILE:HD12	1.74	0.68
5:N:847:ASP:C	5:N:849:GLY:H	2.00	0.68
6:O:77:ILE:HG23	6:O:161:LYS:HE3	1.75	0.68
8:Q:198:ILE:CD1	8:Q:212:ARG:HG3	2.24	0.68
11:T:102:TYR:OH	11:T:122:LEU:HD22	1.93	0.68
2:5:15:DT:H2"	2:5:16:DT:H71	1.75	0.68
11:H:143:LEU:HD12	11:H:143:LEU:N	2.09	0.68
5:N:39:ARG:HH21	5:N:665:GLU:CD	2.02	0.68
6:O:43:THR:CG2	6:O:44:LEU:H	2.03	0.68
4:A:351:THR:HB	5:B:1103:ILE:CD1	2.24	0.68
5:B:635:ARG:NH2	5:B:742:GLU:OE2	2.26	0.68
7:D:52:LEU:HD21	7:D:147:TYR:HE2	1.59	0.68
7:D:153:ARG:HB3	7:D:154:PHE:CE1	2.29	0.68
4:M:458:HIS:CE1	4:M:507:VAL:HG21	2.29	0.68
4:M:1036:ARG:HG2	4:M:1036:ARG:HH11	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:1197:PRO:HG2	5:N:1200:ALA:CB	2.24	0.68
5:B:23:ALA:HB1	5:B:24:PRO:HD2	1.74	0.68
5:B:815:ARG:HD3	5:B:1041:GLU:OE2	1.94	0.68
5:B:953:LEU:CD2	5:B:965:LYS:HB2	2.23	0.68
6:C:90:ASP:O	6:C:91:HIS:HB3	1.94	0.68
4:M:1161:THR:HG22	4:M:1163:ILE:N	2.08	0.68
5:N:830:TYR:O	5:N:832:GLY:N	2.27	0.68
5:B:357:GLN:O	5:B:366:GLN:HA	1.94	0.67
6:C:77:ILE:HG23	6:C:161:LYS:HE3	1.76	0.67
6:C:123:ASN:HD22	6:C:125:MET:HG2	1.60	0.67
10:G:111:THR:HG22	10:G:113:HIS:H	1.58	0.67
4:M:596:THR:O	4:M:598:LEU:N	2.27	0.67
4:M:714:PHE:HB2	12:U:97:MET:HE1	1.74	0.67
4:M:849:MET:CE	4:M:1061:GLY:HA2	2.23	0.67
5:N:217:ARG:NE	5:N:405:ARG:HB2	2.09	0.67
10:G:1:MET:SD	10:G:79:PHE:HD1	2.17	0.67
10:G:119:LEU:HD12	10:G:131:GLN:O	1.94	0.67
13:J:7:CYS:CB	13:J:46:CYS:HB3	2.25	0.67
4:M:49:LYS:HE2	4:M:61:ILE:HD12	1.76	0.67
5:N:344:LYS:O	5:N:345:LYS:HG3	1.94	0.67
5:N:357:GLN:O	5:N:366:GLN:HA	1.94	0.67
5:N:635:ARG:NH2	5:N:742:GLU:OE2	2.27	0.67
5:B:778:MET:HE2	5:B:1094:ARG:HG2	1.74	0.67
5:B:799:PRO:HB3	5:B:818:PRO:HG2	1.76	0.67
5:B:1202:LEU:O	5:B:1206:GLU:HG3	1.94	0.67
6:C:213:PRO:O	6:C:214:ASN:HB2	1.93	0.67
4:M:1323:ASP:OD1	4:M:1325:THR:HB	1.94	0.67
4:M:1345:ARG:HG3	4:M:1376:THR:HG21	1.76	0.67
5:N:336:ARG:HH21	5:N:345:LYS:HG2	1.57	0.67
6:O:238:ILE:CG2	6:O:242:GLN:HB2	2.25	0.67
4:A:701:LEU:HA	12:I:115:LYS:HE3	1.76	0.67
4:A:1100:ARG:NH2	4:A:1351:GLU:HG2	2.09	0.67
8:E:46:TYR:CD2	8:E:58:MET:HG2	2.30	0.67
4:M:809:THR:OG1	4:M:812:GLU:HG3	1.94	0.67
7:P:175:PHE:HZ	10:S:85:GLU:HG3	1.58	0.67
8:Q:22:MET:HE3	8:Q:26:ARG:HH21	1.59	0.67
8:Q:48:ASP:CG	8:Q:49:SER:H	2.02	0.67
4:A:899:VAL:HB	4:A:929:LEU:CD1	2.24	0.67
4:A:993:LEU:HD23	4:A:1022:LEU:HD21	1.75	0.67
5:B:121:ASN:HA	5:B:207:GLY:HA2	1.76	0.67
5:B:1069:PHE:H	5:B:1069:PHE:HD1	1.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:F:125:LEU:HG	9:F:125:LEU:O	1.93	0.67
13:J:64:ASN:HD22	13:J:65:PRO:HD3	1.60	0.67
5:N:616:ILE:HD12	5:N:616:ILE:N	2.09	0.67
4:A:346:ASP:HB3	5:B:1108:ARG:H	1.60	0.67
4:A:666:ILE:HD12	4:A:667:GLY:H	1.58	0.67
4:A:898:ARG:HB2	4:A:933:TYR:CE1	2.30	0.67
5:B:594:ALA:HA	5:B:617:ARG:NH1	2.10	0.67
14:K:61:TYR:C	14:K:61:TYR:CD2	2.70	0.67
4:M:699:ALA:HB1	4:M:701:LEU:HG	1.76	0.67
5:N:642:ASP:O	5:N:644:GLU:N	2.27	0.67
6:O:244:VAL:O	6:O:248:ILE:HG13	1.94	0.67
4:A:58:LEU:HD11	4:A:243:PRO:CB	2.23	0.67
4:A:69:THR:O	4:A:71:GLN:N	2.28	0.67
12:I:34:TYR:HE2	12:I:36:GLU:HB3	1.59	0.67
4:M:567:LYS:HE3	11:T:46:LEU:HB2	1.75	0.67
4:M:903:ASN:ND2	4:M:905:ASP:H	1.93	0.67
4:M:1035:TYR:O	4:M:1037:LEU:N	2.28	0.67
5:N:860:MET:HG2	5:N:861:ASP:N	2.10	0.67
6:O:239:PRO:HB2	6:O:241:ASP:OD1	1.95	0.67
7:P:52:LEU:C	7:P:54:GLU:H	2.02	0.67
4:A:741:ASN:HD21	4:A:743:VAL:HB	1.60	0.67
4:A:1076:ALA:HA	4:A:1079:MET:HE2	1.75	0.67
5:B:859:TYR:OH	5:B:941:LEU:HD12	1.94	0.67
6:C:2:SER:N	6:C:3:GLU:N	2.43	0.67
10:G:80:LYS:HD3	10:G:80:LYS:H	1.60	0.67
4:M:518:LYS:HE2	4:M:624:SER:O	1.94	0.67
4:M:794:PRO:HG2	4:M:795:GLU:OE2	1.95	0.67
5:N:1162:ILE:HD11	5:N:1194:ILE:HD13	1.75	0.67
7:P:47:LEU:HD11	10:S:3:PHE:HD2	1.54	0.67
8:Q:22:MET:CE	8:Q:26:ARG:HH21	2.07	0.67
14:W:47:ARG:HD2	14:W:47:ARG:O	1.95	0.67
2:5:21:DC:H2"	2:5:22:BRU:H5"	1.77	0.67
4:A:663:SER:OG	4:A:664:THR:N	2.26	0.67
6:C:226:ASP:O	6:C:227:THR:HB	1.94	0.67
7:D:159:THR:O	7:D:163:VAL:HG23	1.95	0.67
12:I:75:CYS:SG	12:I:79:HIS:N	2.68	0.67
4:M:254:GLU:O	4:M:256:GLN:N	2.28	0.67
4:M:265:LYS:HD2	4:M:265:LYS:N	2.07	0.67
4:M:590:ARG:HG3	4:M:590:ARG:NH1	2.10	0.67
4:M:1289:ARG:HD2	4:M:1303:GLU:OE2	1.95	0.67
7:P:7:THR:HB	10:S:42:PHE:CE2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:81:PRO:CB	11:T:82:PRO:CD	2.73	0.67
1:1:1:DA:C1'	1:1:2:DA:H5'	2.19	0.67
4:A:265:LYS:HD2	4:A:265:LYS:H	1.60	0.67
4:A:547:LEU:HD22	14:K:58:PHE:HD1	1.60	0.67
5:B:601:ARG:O	5:B:605:ARG:HG3	1.95	0.67
5:B:1087:PHE:HD2	5:B:1088:GLY:N	1.92	0.67
4:M:58:LEU:HD11	4:M:243:PRO:CB	2.24	0.67
4:M:58:LEU:CG	4:M:59:GLY:H	2.07	0.67
4:M:901:LEU:HG	4:M:926:GLN:NE2	2.09	0.67
6:O:67:LEU:HA	6:O:70:ILE:HD12	1.74	0.67
6:O:69:LEU:HB3	13:V:6:ARG:HD3	1.76	0.67
8:Q:22:MET:HE3	8:Q:26:ARG:NE	2.10	0.67
14:W:47:ARG:HH11	14:W:47:ARG:CB	2.06	0.67
4:A:63:ARG:HA	4:A:74:MET:SD	2.35	0.66
4:A:254:GLU:CB	5:B:935:ARG:HH12	2.05	0.66
5:B:616:ILE:HD12	5:B:616:ILE:N	2.10	0.66
5:B:1073:TYR:CE2	5:B:1080:LYS:HG2	2.31	0.66
8:E:78:LEU:HD21	8:E:80:VAL:HG23	1.76	0.66
4:M:225:ASN:ND2	4:M:228:PHE:H	1.90	0.66
4:M:591:PHE:HA	4:M:595:THR:HG21	1.76	0.66
4:M:984:LYS:O	4:M:988:LEU:HB2	1.96	0.66
5:N:953:LEU:CD2	5:N:965:LYS:HB2	2.24	0.66
5:N:1002:THR:HG23	5:N:1006:ILE:HG13	1.75	0.66
6:O:73:GLN:HE21	6:O:75:MET:N	1.93	0.66
11:T:81:PRO:CB	11:T:82:PRO:HD2	2.24	0.66
2:2:24:DG:OP2	5:B:942:ARG:NH2	2.23	0.66
4:A:399:HIS:HB3	4:A:400:PRO:CD	2.23	0.66
4:A:856:THR:HB	4:A:865:GLN:HB2	1.77	0.66
4:A:982:THR:HB	4:A:985:ASP:H	1.60	0.66
4:A:986:ILE:HG22	4:A:987:VAL:N	2.09	0.66
4:A:1332:PHE:HD2	4:A:1332:PHE:N	1.93	0.66
5:B:229:ALA:HB1	5:B:231:PRO:HD2	1.76	0.66
5:B:995:ARG:HH12	6:C:165:LYS:HG2	1.61	0.66
4:M:525:GLN:HG3	5:N:835:GLN:HG2	1.76	0.66
4:M:901:LEU:H	4:M:926:GLN:HE21	1.41	0.66
4:M:1332:PHE:CD2	4:M:1332:PHE:N	2.63	0.66
5:N:770:GLN:CD	5:N:983:ARG:HA	2.20	0.66
5:N:863:GLU:OE2	5:N:873:THR:HA	1.96	0.66
8:Q:15:ALA:O	8:Q:19:VAL:HG23	1.95	0.66
4:A:265:LYS:HD2	4:A:265:LYS:N	2.09	0.66
11:H:81:PRO:CB	11:H:82:PRO:CD	2.73	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:108:MET:N	4:M:108:MET:SD	2.67	0.66
4:M:382:PRO:HD3	4:M:428:TYR:CD2	2.31	0.66
4:M:798:GLY:HA2	4:M:815:PHE:CD1	2.30	0.66
6:O:2:SER:N	6:O:3:GLU:N	2.44	0.66
10:S:111:THR:HB	10:S:114:LEU:HB2	1.77	0.66
11:T:143:LEU:N	11:T:143:LEU:HD12	2.10	0.66
4:A:351:THR:HG22	5:B:1103:ILE:HA	1.76	0.66
4:A:382:PRO:HD3	4:A:428:TYR:CD2	2.30	0.66
4:A:1444:MET:CG	10:G:60:ARG:HA	2.26	0.66
6:C:46:ILE:HG23	6:C:157:CYS:HB3	1.77	0.66
8:E:213:ILE:HG12	8:E:214:CYS:H	1.59	0.66
4:M:353:ILE:CD1	4:M:487:MET:HE2	2.26	0.66
4:M:714:PHE:O	4:M:718:VAL:HG23	1.96	0.66
5:N:1223:ASP:O	5:N:1224:PHE:HB2	1.94	0.66
10:S:1:MET:SD	10:S:1:MET:C	2.78	0.66
10:S:15:PRO:HA	10:S:18:PHE:CE1	2.30	0.66
10:S:49:LEU:HG	10:S:76:ALA:HA	1.76	0.66
4:A:152:VAL:CG1	4:A:153:PRO:HD2	2.26	0.66
4:A:699:ALA:CB	4:A:701:LEU:HG	2.25	0.66
11:H:59:ILE:HG22	11:H:60:ALA:H	1.60	0.66
4:M:61:ILE:HG22	4:M:62:ASP:H	1.60	0.66
4:M:253:ASN:HB3	5:N:935:ARG:CZ	2.26	0.66
4:M:567:LYS:HB2	4:M:568:PRO:CD	2.25	0.66
5:N:169:ARG:HB2	5:N:454:THR:HG23	1.75	0.66
5:N:557:PHE:C	5:N:557:PHE:CD2	2.72	0.66
5:N:834:ASN:HA	5:N:838:SER:O	1.95	0.66
5:N:975:GLN:HG2	5:N:976:ILE:H	1.61	0.66
9:R:103:MET:HE2	10:S:66:GLY:H	1.61	0.66
4:A:265:LYS:HZ3	4:A:322:VAL:HG22	1.61	0.66
4:A:1332:PHE:N	4:A:1332:PHE:CD2	2.63	0.66
5:B:825:VAL:CG1	5:B:826:ALA:N	2.59	0.66
5:B:1106:ARG:NH1	5:B:1110:PRO:HG2	2.11	0.66
15:L:32:ALA:HB3	15:L:55:ILE:CD1	2.25	0.66
4:M:1063:MET:CG	4:M:1436:ILE:HG23	2.25	0.66
4:M:1171:GLN:HA	4:M:1174:PHE:HE1	1.61	0.66
5:N:860:MET:HG2	5:N:861:ASP:H	1.61	0.66
7:P:153:ARG:HB3	7:P:154:PHE:CE1	2.31	0.66
15:X:32:ALA:HB3	15:X:55:ILE:CD1	2.25	0.66
15:X:53:HIS:HB3	15:X:55:ILE:HD11	1.78	0.66
4:A:89:PRO:HB2	4:A:204:THR:CG2	2.24	0.66
8:E:192:ARG:HH11	8:E:192:ARG:HG3	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:33:ALA:HA	4:M:57:ARG:NH2	2.10	0.66
4:M:1127:ASP:HB3	4:M:1130:GLN:CB	2.26	0.66
5:N:336:ARG:CD	5:N:348:ARG:HH11	2.08	0.66
5:N:616:ILE:HG13	5:N:697:GLU:HA	1.78	0.66
5:N:1159:ARG:HH11	5:N:1159:ARG:HB3	1.61	0.66
6:O:66:ARG:NH2	13:V:3:VAL:O	2.29	0.66
7:P:53:SER:HB3	7:P:153:ARG:H	1.59	0.66
8:Q:153:HIS:HB3	8:Q:196:VAL:CG1	2.25	0.66
11:T:84:ALA:CB	11:T:87:ARG:HB2	2.26	0.66
4:A:979:SER:OG	4:A:980:ASP:N	2.29	0.66
13:J:57:ILE:HA	13:J:60:PHE:HD2	1.60	0.66
14:K:110:ASN:O	14:K:111:LEU:HD23	1.96	0.66
4:M:34:LYS:HE3	4:M:57:ARG:NH1	2.09	0.66
4:M:50:ILE:C	4:M:52:GLY:H	2.04	0.66
4:M:152:VAL:CG1	4:M:153:PRO:HD2	2.26	0.66
4:M:524:VAL:HG12	4:M:525:GLN:N	2.09	0.66
4:M:863:VAL:HG11	4:M:866:PHE:CD2	2.31	0.66
4:M:1450:LEU:HG	4:M:1450:LEU:O	1.95	0.66
5:N:1006:ILE:HD13	13:V:44:TYR:CE2	2.31	0.66
12:U:75:CYS:SG	12:U:79:HIS:N	2.69	0.66
2:2:16:DT:H4'	4:A:1403:GLU:OE2	1.96	0.66
4:A:19:PHE:O	4:A:1416:ALA:HA	1.94	0.66
5:B:496:ARG:NH1	5:B:539:LEU:HB2	2.11	0.66
5:B:579:ARG:HB2	5:B:586:TRP:HE1	1.59	0.66
4:M:35:ILE:HA	4:M:52:GLY:O	1.96	0.66
4:M:244:PRO:O	4:M:247:ARG:N	2.29	0.66
4:M:981:LEU:CD2	4:M:1039:LYS:HA	2.26	0.66
5:N:807:ARG:HG2	5:N:1045:SER:OG	1.96	0.66
13:V:44:TYR:HA	13:V:47:ARG:HB3	1.78	0.66
5:B:114:PRO:HG2	5:B:115:GLN:H	1.61	0.66
5:N:336:ARG:HG2	5:N:348:ARG:CD	2.17	0.66
5:N:918:ILE:HB	5:N:935:ARG:HD2	1.78	0.66
3:6:3:G:H2'	3:6:4:A:C8	2.32	0.65
4:A:794:PRO:HG2	4:A:795:GLU:OE2	1.97	0.65
5:B:542:MET:HE3	5:B:636:PRO:HG3	1.76	0.65
8:E:48:ASP:CG	8:E:49:SER:H	2.04	0.65
10:G:143:ILE:HG22	10:G:144:ARG:N	2.11	0.65
4:M:901:LEU:CG	4:M:926:GLN:HE21	2.08	0.65
8:Q:157:SER:OG	8:Q:160:GLU:HG3	1.96	0.65
13:V:1:MET:N	13:V:56:LEU:N	2.44	0.65
14:W:10:PHE:CD2	14:W:10:PHE:N	2.63	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:265:LYS:HZ3	4:A:322:VAL:HG13	1.61	0.65
11:H:91:ASP:C	11:H:93:TYR:H	2.03	0.65
12:I:13:MET:HG3	12:I:14:LEU:N	2.11	0.65
4:M:55:ASP:CG	4:M:55:ASP:O	2.36	0.65
4:M:590:ARG:HB3	4:M:605:MET:N	2.11	0.65
4:M:663:SER:OG	4:M:664:THR:N	2.28	0.65
4:M:1444:MET:CG	10:S:60:ARG:HA	2.26	0.65
5:N:180:TYR:H	5:N:180:TYR:HD1	1.45	0.65
5:N:339:THR:HG22	5:N:339:THR:O	1.95	0.65
6:O:179:GLU:HG2	6:O:180:TYR:N	2.10	0.65
8:Q:135:PHE:HD2	8:Q:140:LEU:HD21	1.59	0.65
9:R:114:GLU:OE2	9:R:119:ARG:HG2	1.94	0.65
2:2:20:DC:H2''	2:2:21:DC:H5'	1.76	0.65
4:A:42:ASP:HB3	4:A:45:GLN:H	1.61	0.65
4:A:53:LEU:CD2	4:A:54:ASN:HD22	2.09	0.65
4:A:567:LYS:HB2	4:A:568:PRO:CD	2.26	0.65
5:B:180:TYR:HD1	5:B:180:TYR:H	1.45	0.65
5:B:339:THR:O	5:B:339:THR:HG22	1.96	0.65
11:H:81:PRO:CB	11:H:82:PRO:HD2	2.25	0.65
4:M:341:MET:HE1	5:N:1135:ARG:NH1	2.11	0.65
4:M:630:ILE:HD13	4:M:646:PHE:CZ	2.30	0.65
5:N:63:ILE:O	5:N:67:SER:HB3	1.96	0.65
5:N:782:LEU:HD12	5:N:788:ARG:HH11	1.61	0.65
5:N:1115:THR:HG22	5:N:1117:GLN:HG3	1.77	0.65
5:B:860:MET:HG2	5:B:861:ASP:H	1.62	0.65
5:B:1169:MET:HE1	5:B:1201:LYS:HA	1.76	0.65
6:C:46:ILE:HG13	6:C:72:LEU:HD11	1.79	0.65
7:D:53:SER:HB3	7:D:152:SER:HB2	1.78	0.65
7:D:170:THR:CG2	7:D:172:LEU:HG	2.26	0.65
4:M:230:ARG:H	4:M:233:TRP:HE3	1.38	0.65
5:N:225:VAL:HA	5:N:237:VAL:O	1.96	0.65
10:S:51:TYR:C	10:S:51:TYR:CD2	2.74	0.65
11:T:59:ILE:HG22	11:T:60:ALA:H	1.61	0.65
5:B:975:GLN:O	5:B:990:ILE:HD12	1.97	0.65
8:E:22:MET:HE3	8:E:26:ARG:HE	1.61	0.65
4:M:63:ARG:HA	4:M:74:MET:CE	2.27	0.65
5:N:1095:LEU:H	5:N:1095:LEU:HD12	1.62	0.65
6:O:66:ARG:HH21	13:V:5:VAL:HG23	1.60	0.65
6:O:147:LEU:HB2	6:O:151:GLN:HB2	1.78	0.65
7:P:51:ASN:O	7:P:52:LEU:O	2.14	0.65
8:Q:213:ILE:HG12	8:Q:214:CYS:H	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:80:LYS:HD3	10:S:80:LYS:H	1.62	0.65
4:A:1299:VAL:HG12	4:A:1300:LYS:N	2.12	0.65
4:M:87:ALA:HB3	4:M:276:LEU:HD23	1.77	0.65
4:M:754:SER:H	4:M:757:ASN:ND2	1.87	0.65
4:M:1002:GLY:HA3	4:M:1007:ILE:HG21	1.79	0.65
4:M:1332:PHE:HD2	4:M:1332:PHE:N	1.95	0.65
4:M:1445:ILE:HG12	10:S:18:PHE:HE2	1.60	0.65
2:2:27:DA:H2	3:3:2:C:H42	1.45	0.65
2:5:24:DG:H2''	2:5:25:DT:H5'	1.77	0.65
4:A:289:ILE:C	4:A:291:GLU:H	2.05	0.65
4:A:567:LYS:HG3	4:A:568:PRO:HD2	1.77	0.65
5:B:549:THR:H	5:B:628:THR:HG23	1.61	0.65
5:B:847:ASP:C	5:B:849:GLY:H	2.05	0.65
6:C:45:ALA:HA	6:C:72:LEU:HD12	1.78	0.65
4:M:264:PHE:O	4:M:267:ALA:HB3	1.97	0.65
4:M:567:LYS:CE	11:T:46:LEU:HB2	2.27	0.65
4:M:881:GLN:NE2	4:M:958:VAL:O	2.29	0.65
5:N:801:LYS:O	13:V:52:THR:HG23	1.97	0.65
7:P:173:HIS:ND1	7:P:174:PRO:HD2	2.12	0.65
13:V:14:VAL:O	13:V:14:VAL:HG12	1.95	0.65
5:B:839:MET:HE3	5:B:1010:LEU:HD21	1.79	0.65
14:K:111:LEU:O	14:K:112:GLN:HG2	1.94	0.65
4:M:979:SER:OG	4:M:980:ASP:N	2.28	0.65
5:N:810:GLU:HB2	5:N:815:ARG:HH22	1.61	0.65
9:R:138:LEU:HB3	9:R:139:PRO:HD2	1.79	0.65
4:A:458:HIS:CE1	4:A:507:VAL:HG21	2.32	0.65
4:A:598:LEU:HA	11:H:122:LEU:HD13	1.79	0.65
4:A:1120:LEU:HD12	4:A:1120:LEU:N	2.11	0.65
4:A:1127:ASP:HB3	4:A:1130:GLN:CB	2.27	0.65
5:B:378:LEU:O	5:B:378:LEU:HD12	1.96	0.65
5:B:1001:PHE:CE1	5:B:1073:TYR:HB2	2.32	0.65
6:C:166:GLU:HG3	14:K:10:PHE:CZ	2.21	0.65
11:H:44:VAL:O	11:H:44:VAL:HG12	1.96	0.65
4:M:537:ARG:HD2	11:T:20:TYR:HE1	1.60	0.65
5:N:467:GLY:H	5:N:475:SER:CB	2.09	0.65
10:S:39:THR:HG22	10:S:41:LYS:H	1.62	0.65
4:A:504:LEU:HD11	9:F:91:ALA:HB1	1.79	0.65
4:A:1356:ILE:HD12	4:A:1368:MET:SD	2.37	0.65
6:C:73:GLN:HB3	6:C:131:HIS:H	1.62	0.65
10:G:1:MET:SD	10:G:1:MET:C	2.80	0.65
13:J:16:ASP:O	13:J:18:TRP:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:306:ASN:HB2	4:M:324:SER:HB3	1.79	0.65
4:M:1428:VAL:HG13	5:N:1151:LEU:HD21	1.77	0.65
6:O:167:HIS:HD2	6:O:168:ALA:H	1.45	0.65
13:V:43:ARG:HG3	13:V:45:CYS:SG	2.37	0.65
5:B:411:PRO:O	5:B:414:ALA:HB3	1.96	0.64
4:M:982:THR:HB	4:M:985:ASP:H	1.60	0.64
4:M:1120:LEU:HD12	4:M:1120:LEU:N	2.11	0.64
5:N:1169:MET:HE1	5:N:1201:LYS:HA	1.79	0.64
6:O:43:THR:CG2	6:O:44:LEU:N	2.60	0.64
6:O:56:THR:HG22	6:O:57:VAL:H	1.62	0.64
4:A:353:ILE:HG21	4:A:487:MET:HG3	1.78	0.64
7:D:52:LEU:C	7:D:54:GLU:H	2.05	0.64
7:D:66:ARG:O	7:D:70:PHE:HB2	1.98	0.64
4:M:87:ALA:CB	4:M:276:LEU:HD23	2.27	0.64
4:M:92:HIS:O	4:M:94:GLY:N	2.31	0.64
4:M:870:GLU:HG2	8:Q:208:TYR:CG	2.31	0.64
5:N:199:MET:HE2	5:N:492:LEU:HD23	1.79	0.64
6:O:3:GLU:O	6:O:4:GLU:HG3	1.97	0.64
11:T:123:MET:HG2	11:T:124:ARG:N	2.12	0.64
4:A:675:THR:O	4:A:679:ILE:HG13	1.97	0.64
4:A:767:GLN:NE2	4:A:774:ARG:HB3	2.12	0.64
5:B:344:LYS:O	5:B:345:LYS:HG3	1.97	0.64
5:B:705:MET:HE2	5:B:745:PRO:HB3	1.78	0.64
6:C:43:THR:CG2	6:C:44:LEU:H	2.07	0.64
9:F:111:LEU:HD12	9:F:111:LEU:N	2.11	0.64
13:J:1:MET:N	13:J:56:LEU:N	2.45	0.64
4:A:34:LYS:NZ	7:P:187:THR:HG21	2.12	0.64
4:A:57:ARG:O	4:A:68:GLN:HG3	1.97	0.64
4:A:58:LEU:CD1	4:A:243:PRO:HB3	2.27	0.64
5:B:340:ALA:CB	5:B:343:ILE:HD12	2.27	0.64
5:B:642:ASP:HB3	5:B:649:LYS:CD	2.28	0.64
5:B:882:THR:CG2	5:B:884:ARG:HB2	2.28	0.64
4:M:108:MET:SD	4:M:210:ILE:HD13	2.37	0.64
5:N:822:ASN:O	13:V:48:ARG:NH1	2.30	0.64
5:N:1096:ARG:O	5:N:1097:HIS:CB	2.45	0.64
4:A:55:ASP:C	4:A:57:ARG:H	2.03	0.64
4:A:699:ALA:HB1	4:A:701:LEU:HG	1.80	0.64
10:G:1:MET:SD	10:G:1:MET:O	2.55	0.64
11:H:89:LEU:HB3	11:H:91:ASP:OD1	1.96	0.64
12:I:55:THR:HG22	12:I:58:VAL:HG21	1.79	0.64
4:M:57:ARG:O	4:M:68:GLN:HG3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:230:ARG:N	4:M:233:TRP:CE3	2.60	0.64
4:M:356:ASP:HB2	4:M:469:ARG:HH11	1.63	0.64
4:M:666:ILE:HD12	4:M:667:GLY:H	1.62	0.64
4:M:896:ARG:HD3	4:M:897:TYR:HE1	1.61	0.64
5:N:1138:MET:HA	5:N:1138:MET:CE	2.27	0.64
12:U:99:LEU:O	12:U:111:THR:HG23	1.97	0.64
6:C:241:ASP:O	6:C:245:VAL:HG23	1.97	0.64
13:J:23:ASN:C	13:J:25:LEU:H	2.05	0.64
13:J:44:TYR:H	13:J:44:TYR:HD2	1.45	0.64
4:M:482:PHE:C	4:M:484:GLY:H	2.04	0.64
5:N:44:VAL:HG11	5:N:199:MET:HG2	1.80	0.64
7:P:71:LYS:HA	7:P:74:GLN:HB2	1.78	0.64
10:S:9:LEU:HD12	10:S:10:ASN:H	1.61	0.64
11:T:89:LEU:HB3	11:T:91:ASP:OD1	1.97	0.64
2:2:21:DC:H2''	2:2:22:BRU:H5''	1.80	0.64
5:B:25:ILE:HD11	5:B:653:VAL:O	1.97	0.64
5:B:637:LEU:O	5:B:690:VAL:HG13	1.98	0.64
5:B:821:GLN:HE22	5:B:851:PHE:CA	2.08	0.64
7:D:138:ASN:OD1	7:D:141:LEU:HB2	1.98	0.64
4:M:58:LEU:HD21	4:M:244:PRO:HD2	1.79	0.64
4:M:407:ARG:HB3	4:M:430:TRP:CE2	2.32	0.64
4:M:547:LEU:HD22	14:W:58:PHE:CD1	2.33	0.64
4:M:996:ASN:O	4:M:998:LEU:HD12	1.98	0.64
4:M:1127:ASP:HB3	4:M:1130:GLN:HB3	1.78	0.64
5:N:882:THR:CG2	5:N:884:ARG:HB2	2.28	0.64
7:P:8:PHE:CZ	7:P:40:HIS:HA	2.33	0.64
4:A:2:VAL:HG21	5:B:1157:ALA:C	2.23	0.64
4:A:366:VAL:HG21	4:A:460:VAL:HG22	1.80	0.64
4:A:844:ALA:C	4:A:845:LEU:HD23	2.23	0.64
5:B:217:ARG:HD2	5:B:217:ARG:C	2.22	0.64
5:B:287:ARG:HG2	5:B:292:ILE:HA	1.78	0.64
5:B:842:ASN:HB3	5:B:845:SER:OG	1.98	0.64
6:C:161:LYS:O	6:C:170:TRP:NE1	2.30	0.64
7:D:176:GLU:O	7:D:178:ALA:N	2.30	0.64
8:E:9:ILE:HD11	8:E:53:PRO:HD3	1.79	0.64
14:K:12:LEU:H	14:K:12:LEU:HD12	1.63	0.64
14:K:46:ILE:O	14:K:46:ILE:HG22	1.97	0.64
4:M:670:ILE:HG23	4:M:805:LEU:HD21	1.80	0.64
5:N:906:SER:O	5:N:941:LEU:HD23	1.97	0.64
14:W:47:ARG:HD2	14:W:47:ARG:C	2.22	0.64
4:A:33:ALA:O	4:A:83:HIS:HD2	1.81	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:321:PRO:O	4:A:322:VAL:CB	2.46	0.64
4:A:870:GLU:HG2	8:E:208:TYR:CG	2.33	0.64
4:A:1028:THR:O	4:A:1032:LEU:HD12	1.98	0.64
5:B:642:ASP:O	5:B:644:GLU:N	2.31	0.64
5:B:1006:ILE:HD13	13:J:44:TYR:CE2	2.33	0.64
13:J:44:TYR:HA	13:J:47:ARG:HB3	1.80	0.64
4:M:58:LEU:CG	4:M:59:GLY:N	2.61	0.64
4:M:1348:LEU:HG	4:M:1372:VAL:HG23	1.77	0.64
5:N:502:ILE:H	5:N:502:ILE:CD1	1.97	0.64
6:O:208:GLU:O	6:O:210:GLU:N	2.31	0.64
7:P:53:SER:CB	7:P:153:ARG:H	2.10	0.64
8:Q:177:ARG:HD3	8:Q:215:MET:CG	2.28	0.64
9:R:97:ARG:O	9:R:101:ILE:HG13	1.98	0.64
11:T:128:ASN:CG	11:T:128:ASN:O	2.40	0.64
4:A:1124:HIS:HB3	4:A:1130:GLN:HG2	1.79	0.64
5:B:542:MET:HG2	5:B:747:MET:HB3	1.80	0.64
5:B:758:PHE:CE2	5:B:1044:ALA:HA	2.32	0.64
4:M:69:THR:C	4:M:71:GLN:N	2.51	0.64
4:M:347:PHE:H	5:N:1107:ALA:HA	1.63	0.64
4:M:351:THR:HB	5:N:1103:ILE:CD1	2.27	0.64
4:M:596:THR:C	4:M:598:LEU:H	2.03	0.64
5:N:758:PHE:CE2	5:N:1044:ALA:HA	2.33	0.64
5:N:953:LEU:O	5:N:953:LEU:HD23	1.98	0.64
1:1:3:DG:H2"	1:1:4:DT:OP2	1.96	0.63
4:A:869:GLY:O	8:E:204:THR:HG21	1.98	0.63
5:B:314:LEU:O	5:B:317:CYS:HB3	1.99	0.63
8:E:135:PHE:HD2	8:E:140:LEU:HD21	1.61	0.63
4:M:1364:ASN:HD22	4:M:1365:TYR:N	1.96	0.63
6:O:29:MET:HE2	14:W:98:LEU:CD2	2.27	0.63
12:U:34:TYR:CE2	12:U:36:GLU:HB3	2.33	0.63
14:W:111:LEU:C	14:W:112:GLN:CG	2.69	0.63
2:5:18:TT:H2'1	2:5:18:TT:O5R	1.97	0.63
4:A:49:LYS:HZ1	4:A:61:ILE:N	1.97	0.63
4:A:164:ARG:HG3	4:A:165:GLY:H	1.63	0.63
4:A:714:PHE:CB	12:I:97:MET:HE1	2.28	0.63
4:A:720:ARG:O	4:A:724:GLU:HB2	1.98	0.63
4:A:901:LEU:H	4:A:926:GLN:HE21	1.47	0.63
4:A:1006:ILE:HD12	8:E:163:GLU:HG3	1.79	0.63
5:B:1017:ILE:HB	5:B:1018:PRO:HD3	1.80	0.63
8:E:39:LEU:O	8:E:42:PHE:HB3	1.98	0.63
11:H:111:LEU:HD23	11:H:127:GLY:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:I:112:SER:O	12:I:114:GLN:N	2.31	0.63
4:M:7:SER:C	4:M:9:ALA:H	2.06	0.63
4:M:34:LYS:CE	4:M:57:ARG:HH12	2.10	0.63
4:M:405:VAL:HG22	4:M:432:VAL:HG13	1.81	0.63
4:M:1370:LEU:O	4:M:1374:VAL:HG23	1.99	0.63
5:N:979:LYS:HG2	5:N:1095:LEU:HD13	1.79	0.63
14:W:49:GLU:HG3	14:W:94:ILE:HG12	1.79	0.63
4:A:714:PHE:O	4:A:718:VAL:HG23	1.97	0.63
4:A:1127:ASP:HB3	4:A:1130:GLN:HB3	1.79	0.63
5:B:1165:ILE:HG22	5:B:1166:CYS:N	2.13	0.63
7:D:189:ASP:O	7:D:193:THR:HB	1.98	0.63
13:J:3:VAL:HG21	13:J:18:TRP:CB	2.26	0.63
4:M:289:ILE:C	4:M:291:GLU:H	2.06	0.63
4:M:869:GLY:O	8:Q:204:THR:HG21	1.98	0.63
7:P:8:PHE:CE2	7:P:40:HIS:HA	2.33	0.63
8:Q:46:TYR:CD2	8:Q:58:MET:HG2	2.33	0.63
4:A:853:ASP:OD1	4:A:855:THR:N	2.31	0.63
5:B:100:PRO:HD2	5:B:180:TYR:HE1	1.64	0.63
6:C:174:ALA:HB2	6:C:235:VAL:HG22	1.81	0.63
4:M:54:ASN:HB3	4:M:247:ARG:HH12	1.64	0.63
4:M:1342:GLU:OE2	8:Q:212:ARG:NH1	2.32	0.63
5:N:121:ASN:HA	5:N:207:GLY:CA	2.27	0.63
5:N:654:ARG:H	5:N:657:HIS:CD2	2.14	0.63
10:S:88:ASP:OD2	10:S:88:ASP:N	2.31	0.63
2:5:24:DG:OP2	5:N:942:ARG:NH2	2.26	0.63
4:A:23:SER:HA	4:A:233:TRP:NE1	2.14	0.63
4:A:500:GLU:OE1	5:B:1143:ALA:C	2.42	0.63
4:A:590:ARG:O	4:A:591:PHE:HB2	1.98	0.63
4:A:596:THR:O	4:A:598:LEU:N	2.31	0.63
5:B:465:ASN:HD22	5:B:465:ASN:N	1.95	0.63
5:B:526:GLU:HG2	5:B:538:ASN:HD22	1.63	0.63
6:C:167:HIS:HD2	6:C:168:ALA:H	1.47	0.63
7:D:71:LYS:HA	7:D:74:GLN:HB2	1.79	0.63
4:M:828:ALA:HB2	5:N:530:GLY:HA2	1.79	0.63
4:M:1063:MET:SD	4:M:1436:ILE:HG12	2.39	0.63
4:M:1438:THR:HB	5:N:1144:ALA:HB3	1.79	0.63
5:N:38:PHE:HD1	5:N:811:TYR:CD2	2.17	0.63
5:N:642:ASP:HB3	5:N:649:LYS:CD	2.29	0.63
12:U:13:MET:HG3	12:U:14:LEU:N	2.14	0.63
4:A:18:GLN:HB2	5:B:1215:ARG:HB2	1.81	0.63
4:A:34:LYS:HZ3	7:P:187:THR:HG21	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:782:ARG:NH2	5:B:699:GLU:O	2.30	0.63
5:B:53:GLN:HG2	5:B:547:VAL:CG2	2.27	0.63
5:B:579:ARG:HG2	5:B:579:ARG:HH11	1.62	0.63
5:B:582:VAL:HG23	5:B:626:ILE:HB	1.81	0.63
5:B:842:ASN:ND2	5:B:845:SER:OG	2.30	0.63
6:C:3:GLU:O	6:C:4:GLU:HG3	1.97	0.63
12:I:105:SER:O	12:I:106:CYS:HB3	1.96	0.63
4:M:49:LYS:HZ1	4:M:61:ILE:HG13	1.63	0.63
5:N:880:THR:O	5:N:881:ASN:HB2	1.99	0.63
5:N:1034:VAL:HG12	5:N:1035:ALA:N	2.12	0.63
7:P:52:LEU:HD21	7:P:147:TYR:HE2	1.63	0.63
10:S:117:GLN:C	10:S:119:LEU:H	2.07	0.63
11:T:17:PRO:HB3	11:T:24:CYS:SG	2.38	0.63
4:A:58:LEU:HG	4:A:59:GLY:H	1.62	0.63
4:A:356:ASP:HB2	4:A:469:ARG:HH12	1.63	0.63
4:A:903:ASN:ND2	4:A:905:ASP:H	1.96	0.63
4:A:1002:GLY:HA3	4:A:1007:ILE:HG21	1.79	0.63
4:A:1289:ARG:HD2	4:A:1303:GLU:OE2	1.99	0.63
5:B:223:VAL:CG1	5:B:381:MET:HG2	2.28	0.63
5:B:880:THR:O	5:B:881:ASN:HB2	1.99	0.63
5:B:1161:HIS:NE2	5:B:1175:LEU:HD21	2.13	0.63
4:M:2:VAL:HG21	5:N:1157:ALA:C	2.24	0.63
4:M:90:VAL:CG1	4:M:297:GLN:HA	2.28	0.63
4:M:1227:ILE:HG22	4:M:1228:TRP:N	2.13	0.63
5:N:1069:PHE:HD1	5:N:1069:PHE:H	1.43	0.63
2:2:24:DG:H2''	2:2:25:DT:H5'	1.79	0.63
2:2:27:DA:H2	3:3:2:C:N4	1.97	0.63
5:B:446:LEU:O	5:B:447:ALA:HB3	1.99	0.63
5:B:936:ASP:OD1	5:B:938:SER:N	2.30	0.63
7:D:185:CYS:HB2	7:D:211:LEU:HD22	1.79	0.63
8:E:202:SER:OG	8:E:204:THR:HG22	1.99	0.63
4:M:844:ALA:C	4:M:845:LEU:HD23	2.23	0.63
5:B:1065:GLN:HG3	5:B:1067:ARG:H	1.64	0.63
6:C:73:GLN:HE21	6:C:75:MET:N	1.97	0.63
11:H:17:PRO:HB3	11:H:24:CYS:SG	2.39	0.63
4:M:89:PRO:HB2	4:M:204:THR:HG22	1.81	0.63
4:M:335:ARG:HH11	5:N:1202:LEU:HD13	1.61	0.63
4:M:666:ILE:HD12	4:M:666:ILE:N	2.13	0.63
4:M:821:ARG:HH11	4:M:821:ARG:HB2	1.64	0.63
5:N:589:VAL:CG1	5:N:590:HIS:H	2.06	0.63
5:N:1159:ARG:HD3	5:N:1193:GLN:HG3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P:52:LEU:O	7:P:54:GLU:N	2.30	0.63
8:Q:177:ARG:C	8:Q:212:ARG:HD3	2.24	0.63
4:A:21:LEU:HD12	4:A:229:SER:HB2	1.81	0.62
7:D:52:LEU:O	7:D:54:GLU:N	2.30	0.62
8:E:78:LEU:HD23	8:E:78:LEU:C	2.24	0.62
10:G:35:GLU:OE2	10:G:48:VAL:HG23	1.99	0.62
4:M:41:MET:HB3	4:M:48:ALA:O	1.98	0.62
4:M:852:TYR:CE2	4:M:1060:PRO:HB2	2.33	0.62
5:N:226:PHE:HA	5:N:395:GLN:HG3	1.81	0.62
5:N:1001:PHE:CE2	6:O:34:ARG:CZ	2.82	0.62
7:P:47:LEU:HD11	10:S:3:PHE:CE2	2.33	0.62
8:Q:78:LEU:C	8:Q:78:LEU:HD23	2.24	0.62
4:A:728:LYS:O	4:A:732:LEU:HG	1.98	0.62
5:B:871:THR:HG22	5:B:872:GLU:O	1.98	0.62
5:B:899:ILE:CD1	5:B:911:ILE:HA	2.29	0.62
5:B:1034:VAL:HG12	5:B:1035:ALA:N	2.13	0.62
5:B:1115:THR:O	5:B:1116:ARG:HB2	1.97	0.62
6:C:56:THR:HG22	6:C:57:VAL:H	1.63	0.62
10:G:91:VAL:HB	10:G:139:ILE:O	1.99	0.62
4:M:492:PRO:O	4:M:493:GLN:NE2	2.32	0.62
4:M:1124:HIS:HB3	4:M:1130:GLN:HG2	1.80	0.62
5:N:582:VAL:HG23	5:N:626:ILE:HB	1.81	0.62
4:A:68:GLN:O	4:A:70:CYS:N	2.33	0.62
4:A:69:THR:C	4:A:71:GLN:N	2.52	0.62
4:A:868:TYR:CE1	4:A:1064:VAL:CG1	2.81	0.62
4:A:1214:GLU:O	4:A:1218:GLN:HG2	2.00	0.62
5:B:580:VAL:HG22	5:B:624:LEU:HB3	1.81	0.62
6:C:36:VAL:HG21	6:C:251:LEU:HB2	1.80	0.62
8:E:177:ARG:HD3	8:E:215:MET:HG3	1.82	0.62
4:M:321:PRO:O	4:M:322:VAL:CB	2.47	0.62
4:M:537:ARG:HD2	11:T:20:TYR:CE1	2.34	0.62
4:M:714:PHE:CB	12:U:97:MET:HE1	2.28	0.62
5:N:336:ARG:HD3	5:N:348:ARG:NH1	2.14	0.62
5:N:593:PRO:HG2	5:N:617:ARG:NH2	2.14	0.62
5:N:1079:LYS:HA	6:O:27:LEU:HD21	1.80	0.62
4:A:71:GLN:C	4:A:73:GLY:H	2.08	0.62
4:A:577:ILE:O	4:A:580:VAL:HG23	2.00	0.62
4:A:588:LEU:O	4:A:606:LEU:HA	1.98	0.62
4:A:1313:LEU:HD23	4:A:1338:VAL:HG21	1.80	0.62
4:A:1438:THR:HB	5:B:1144:ALA:HB3	1.80	0.62
5:B:1065:GLN:NE2	5:B:1066:SER:N	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D:13:ARG:HB2	7:D:17:LYS:HZ2	1.62	0.62
4:M:335:ARG:HA	4:M:339:ASN:HB2	1.82	0.62
4:M:598:LEU:HD22	11:T:25:ARG:NH1	2.14	0.62
4:M:986:ILE:HG22	4:M:987:VAL:N	2.12	0.62
5:N:287:ARG:HG2	5:N:292:ILE:HA	1.80	0.62
5:N:794:ASN:O	5:N:795:ILE:HD12	1.99	0.62
6:O:35:ARG:NH1	14:W:41:THR:N	2.48	0.62
12:U:55:THR:HG22	12:U:58:VAL:HG21	1.80	0.62
2:5:16:DT:H4'	4:M:1403:GLU:OE2	1.98	0.62
2:5:27:DA:H2''	2:5:28:DT:OP2	1.99	0.62
4:A:306:ASN:HB2	4:A:324:SER:HB3	1.81	0.62
4:A:743:VAL:O	4:A:747:VAL:HG23	1.99	0.62
12:I:71:SER:OG	12:I:83:ASN:HB2	1.99	0.62
4:M:694:THR:O	4:M:698:GLN:HG3	1.98	0.62
4:M:963:ILE:HD11	4:M:1048:ASN:CB	2.29	0.62
5:N:496:ARG:HH12	5:N:539:LEU:HB2	1.64	0.62
10:S:1:MET:SD	10:S:1:MET:O	2.56	0.62
10:S:79:PHE:HZ	10:S:106:MET:HE2	1.64	0.62
12:U:50:THR:HG22	12:U:52:ILE:H	1.65	0.62
4:A:399:HIS:CB	4:A:400:PRO:HD3	2.24	0.62
4:A:567:LYS:CB	4:A:568:PRO:HD2	2.29	0.62
4:A:1227:ILE:HG22	4:A:1228:TRP:N	2.13	0.62
6:C:179:GLU:HG2	6:C:180:TYR:N	2.13	0.62
8:E:168:TYR:HB2	8:E:170:LEU:HG	1.81	0.62
11:H:84:ALA:CB	11:H:87:ARG:HB2	2.30	0.62
4:M:1100:ARG:NH2	4:M:1351:GLU:HG2	2.14	0.62
5:N:899:ILE:O	5:N:952:VAL:HG21	1.99	0.62
8:Q:114:ASN:O	8:Q:115:ASN:HB3	1.98	0.62
4:A:49:LYS:HZ1	4:A:61:ILE:HG13	1.63	0.62
5:B:36:ALA:HA	5:B:39:ARG:HD2	1.82	0.62
5:B:229:ALA:CB	5:B:231:PRO:HD2	2.30	0.62
7:D:56:ARG:HB2	7:D:148:LEU:HD22	1.82	0.62
4:M:1348:LEU:HG	4:M:1372:VAL:CG2	2.28	0.62
5:N:309:GLN:OE1	12:U:52:ILE:HD11	2.00	0.62
5:N:496:ARG:NH1	5:N:539:LEU:HB2	2.14	0.62
6:O:189:THR:HG22	6:O:190:ASP:N	2.13	0.62
8:Q:78:LEU:HD21	8:Q:80:VAL:HG23	1.80	0.62
4:A:590:ARG:HB2	4:A:605:MET:HB3	1.82	0.62
5:B:745:PRO:C	5:B:747:MET:H	2.07	0.62
7:D:63:LEU:HD13	7:D:133:THR:OG1	1.99	0.62
8:E:114:ASN:O	8:E:115:ASN:HB3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:252:PHE:O	4:M:253:ASN:HB2	1.98	0.62
4:M:590:ARG:HB2	4:M:605:MET:HB3	1.82	0.62
4:M:1030:ARG:HG3	4:M:1034:GLU:OE2	1.98	0.62
7:P:60:LYS:O	7:P:64:VAL:HG23	1.99	0.62
4:A:982:THR:O	4:A:985:ASP:HB2	2.00	0.62
5:B:770:GLN:HG2	5:B:983:ARG:O	2.00	0.62
5:B:843:GLN:O	5:B:844:SER:C	2.43	0.62
5:B:1001:PHE:CD2	6:C:34:ARG:NH2	2.67	0.62
5:B:1182:CYS:O	5:B:1182:CYS:SG	2.58	0.62
4:M:1214:GLU:O	4:M:1218:GLN:HG2	2.00	0.62
5:N:800:GLN:HB3	13:V:52:THR:HG22	1.79	0.62
5:N:1106:ARG:HD3	5:N:1126:GLY:C	2.24	0.62
5:N:1165:ILE:HG22	5:N:1166:CYS:N	2.13	0.62
5:N:1177:HIS:HB2	5:N:1179:GLN:HE21	1.65	0.62
12:U:2:THR:O	12:U:3:THR:C	2.42	0.62
15:X:47:ARG:HH21	15:X:54:ARG:HH21	1.47	0.62
1:1:6:DC:C1'	1:1:7:DT:H5'	2.28	0.62
4:A:311:GLN:O	4:A:312:PRO:C	2.42	0.62
4:A:427:GLN:HG3	4:A:430:TRP:CE2	2.34	0.62
4:A:481:ASP:OD1	4:A:483:ASP:OD2	2.17	0.62
4:A:852:TYR:CD2	4:A:1060:PRO:HB2	2.34	0.62
4:A:901:LEU:HB2	4:A:926:GLN:HG2	1.81	0.62
5:B:95:ILE:HG13	5:B:130:VAL:HG22	1.81	0.62
10:G:51:TYR:C	10:G:51:TYR:CD2	2.78	0.62
5:N:223:VAL:CG1	5:N:381:MET:HG2	2.30	0.62
7:P:187:THR:HG22	7:P:188:ALA:H	1.65	0.62
9:R:93:ILE:HD11	9:R:134:ILE:CD1	2.24	0.62
10:S:17:PHE:CD2	10:S:17:PHE:N	2.67	0.62
4:A:37:PHE:N	4:A:37:PHE:CD1	2.67	0.61
4:A:269:ILE:HD11	4:A:300:VAL:HA	1.82	0.61
4:A:347:PHE:H	5:B:1107:ALA:HA	1.65	0.61
4:A:863:VAL:HG11	4:A:866:PHE:CD2	2.35	0.61
4:A:960:ILE:O	4:A:963:ILE:HG22	1.99	0.61
5:B:857:ARG:HD2	5:B:945:GLU:OE1	2.00	0.61
7:D:40:HIS:CE1	7:D:41:GLN:HG3	2.35	0.61
7:D:144:THR:HG21	10:G:46:LEU:HD13	1.82	0.61
8:E:15:ALA:O	8:E:19:VAL:HG23	1.99	0.61
4:M:23:SER:HA	4:M:233:TRP:CD1	2.35	0.61
5:N:337:ARG:C	5:N:338:GLY:N	2.58	0.61
5:N:850:LEU:HD12	5:N:851:PHE:H	1.65	0.61
6:O:66:ARG:CZ	13:V:2:ILE:HG21	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:W:42:LEU:HD21	14:W:46:ILE:HD11	1.81	0.61
1:4:3:DG:H2"	1:4:4:DT:OP2	1.98	0.61
4:A:482:PHE:C	4:A:484:GLY:H	2.06	0.61
4:A:647:GLY:O	4:A:651:LYS:HG3	1.99	0.61
5:B:705:MET:H	5:B:710:LEU:HD12	1.63	0.61
5:B:798:TYR:HE2	6:C:62:PHE:CZ	2.18	0.61
13:J:44:TYR:HA	13:J:47:ARG:CB	2.30	0.61
4:M:49:LYS:HZ1	4:M:61:ILE:N	1.98	0.61
4:M:58:LEU:HD11	4:M:80:HIS:H	1.65	0.61
4:M:302:THR:HA	4:M:305:ASP:O	2.00	0.61
4:M:546:VAL:O	4:M:550:LEU:HG	2.00	0.61
5:N:1106:ARG:NH1	5:N:1110:PRO:HG2	2.15	0.61
6:O:123:ASN:HD22	6:O:125:MET:HG2	1.64	0.61
7:P:176:GLU:O	7:P:178:ALA:N	2.32	0.61
4:A:33:ALA:HA	4:A:57:ARG:NH2	2.15	0.61
4:A:108:MET:N	4:A:108:MET:SD	2.73	0.61
4:A:475:THR:HG23	4:A:476:SER:N	2.13	0.61
4:A:590:ARG:HG3	4:A:590:ARG:HH11	1.65	0.61
4:A:666:ILE:HD11	5:B:1067:ARG:O	2.00	0.61
4:A:809:THR:OG1	4:A:812:GLU:HG3	2.00	0.61
4:A:963:ILE:HD11	4:A:1048:ASN:CB	2.26	0.61
4:A:981:LEU:CD2	4:A:1039:LYS:HA	2.31	0.61
7:D:33:PHE:CE1	10:G:80:LYS:HE3	2.36	0.61
4:M:51:GLY:HA2	4:M:56:PRO:HA	1.82	0.61
4:M:782:ARG:NH2	5:N:699:GLU:O	2.33	0.61
5:N:351:TYR:O	5:N:355:ILE:HG13	2.00	0.61
5:N:579:ARG:HG2	5:N:579:ARG:HH11	1.64	0.61
5:N:825:VAL:CG1	5:N:826:ALA:N	2.63	0.61
5:N:995:ARG:NH1	6:O:165:LYS:HG2	2.16	0.61
7:P:34:GLN:O	7:P:47:LEU:HD23	2.00	0.61
8:Q:94:LYS:CE	8:Q:98:ILE:HD11	2.31	0.61
12:U:26:LEU:CD2	12:U:37:GLU:HA	2.28	0.61
13:V:23:ASN:C	13:V:25:LEU:H	2.07	0.61
4:A:54:ASN:HB3	4:A:247:ARG:HH12	1.65	0.61
4:A:1171:GLN:HA	4:A:1174:PHE:HE1	1.66	0.61
5:B:1162:ILE:HG22	5:B:1163:CYS:H	1.65	0.61
11:H:89:LEU:C	11:H:91:ASP:H	2.09	0.61
4:M:853:ASP:OD1	4:M:855:THR:CB	2.47	0.61
4:M:1279:ILE:HD11	4:M:1316:VAL:HG21	1.80	0.61
4:M:1313:LEU:O	4:M:1315:GLU:N	2.34	0.61
5:N:601:ARG:O	5:N:605:ARG:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P:66:ARG:HD2	7:P:133:THR:HB	1.83	0.61
13:V:57:ILE:HA	13:V:60:PHE:HD2	1.66	0.61
4:A:268:ASP:HB3	4:A:299:HIS:CE1	2.35	0.61
4:A:741:ASN:ND2	4:A:744:LYS:H	1.97	0.61
5:B:37:PHE:HE2	5:B:542:MET:HA	1.65	0.61
5:B:496:ARG:HH12	5:B:539:LEU:HB2	1.65	0.61
5:B:705:MET:HA	5:B:705:MET:HE3	1.82	0.61
5:B:957:ASN:O	5:B:959:ASP:N	2.34	0.61
8:E:94:LYS:CE	8:E:98:ILE:HD11	2.26	0.61
9:F:130:ILE:O	9:F:148:VAL:HG21	1.99	0.61
4:M:23:SER:HA	4:M:233:TRP:NE1	2.15	0.61
4:M:577:ILE:O	4:M:580:VAL:HG23	2.00	0.61
5:N:594:ALA:HA	5:N:617:ARG:NH1	2.16	0.61
5:N:798:TYR:HE2	6:O:62:PHE:CE2	2.18	0.61
6:O:174:ALA:HB2	6:O:235:VAL:HG22	1.83	0.61
4:A:16:GLU:HB3	4:A:1418:LEU:HD11	1.83	0.61
4:A:37:PHE:HD1	4:A:37:PHE:H	1.48	0.61
4:A:1030:ARG:HG3	4:A:1034:GLU:OE2	2.00	0.61
4:A:1120:LEU:HD13	4:A:1304:TRP:O	2.00	0.61
5:B:39:ARG:HH21	5:B:665:GLU:CD	2.09	0.61
11:H:128:ASN:CG	11:H:128:ASN:O	2.43	0.61
4:M:42:ASP:HB3	4:M:45:GLN:H	1.65	0.61
4:M:58:LEU:HG	4:M:59:GLY:N	2.15	0.61
4:M:450:LEU:HD12	4:M:450:LEU:N	2.14	0.61
5:N:336:ARG:NH2	5:N:345:LYS:HE2	2.10	0.61
5:N:446:LEU:O	5:N:447:ALA:HB3	1.99	0.61
5:N:483:LEU:HD11	5:N:491:THR:CG2	2.30	0.61
5:N:705:MET:H	5:N:710:LEU:HD12	1.64	0.61
6:O:183:TRP:CZ2	6:O:207:CYS:HB3	2.36	0.61
2:2:18:TT:H2'1	2:2:18:TT:O5R	2.01	0.61
4:A:639:PRO:HG2	4:A:640:GLN:H	1.64	0.61
5:B:433:GLN:O	5:B:437:GLU:HG3	2.00	0.61
5:B:620:ARG:NH2	12:I:89:GLN:NE2	2.48	0.61
4:M:14:VAL:H	4:M:1432:GLN:HE22	1.48	0.61
9:R:111:LEU:HD12	9:R:111:LEU:N	2.14	0.61
15:X:58:LYS:HG2	15:X:58:LYS:O	2.00	0.61
4:A:828:ALA:HB2	5:B:530:GLY:HA2	1.82	0.61
6:C:177:GLU:HB2	6:C:231:ASN:HB3	1.83	0.61
12:I:2:THR:O	12:I:3:THR:C	2.42	0.61
13:J:7:CYS:HB2	13:J:46:CYS:HB3	1.83	0.61
13:J:44:TYR:HD2	13:J:44:TYR:N	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:399:HIS:O	4:M:401:GLY:N	2.34	0.61
5:N:622:LYS:CE	12:U:59:VAL:HG22	2.31	0.61
6:O:100:THR:HG22	6:O:101:LEU:N	2.15	0.61
6:O:161:LYS:O	6:O:170:TRP:NE1	2.33	0.61
7:P:24:ALA:C	7:P:26:THR:H	2.08	0.61
7:P:35:LEU:HD13	7:P:173:HIS:ND1	2.16	0.61
10:S:1:MET:O	10:S:3:PHE:CD1	2.53	0.61
11:T:38:LEU:HD12	11:T:124:ARG:O	2.01	0.61
2:5:27:DA:H2	3:6:2:C:H42	1.48	0.61
4:A:224:PHE:CZ	4:A:234:MET:HE2	2.36	0.61
4:A:857:ARG:NH1	9:F:139:PRO:HB2	2.15	0.61
5:B:778:MET:HE2	5:B:1094:ARG:CD	2.31	0.61
5:B:1070:GLU:OE1	13:J:44:TYR:OH	2.19	0.61
12:I:78:CYS:HB2	12:I:106:CYS:HB3	1.82	0.61
4:M:21:LEU:HG	4:M:1413:GLY:O	2.01	0.61
4:M:58:LEU:CD1	4:M:243:PRO:HB3	2.31	0.61
4:M:311:GLN:O	4:M:312:PRO:C	2.43	0.61
12:U:8:ARG:CG	12:U:34:TYR:HE1	2.12	0.61
13:V:44:TYR:H	13:V:44:TYR:HD2	1.47	0.61
4:A:244:PRO:O	4:A:247:ARG:N	2.34	0.61
4:A:252:PHE:O	4:A:253:ASN:HB2	2.01	0.61
4:A:382:PRO:HD3	4:A:428:TYR:HD2	1.66	0.61
4:A:1066:VAL:O	4:A:1070:GLN:HG3	2.01	0.61
5:B:978:ASP:OD2	5:B:1098:MET:HG2	2.01	0.61
6:C:18:VAL:HG12	6:C:18:VAL:O	1.99	0.61
6:C:214:ASN:HB3	6:C:217:ASP:OD2	2.00	0.61
10:G:15:PRO:HA	10:G:18:PHE:CE1	2.36	0.61
4:M:98:LYS:O	4:M:99:ILE:C	2.44	0.61
4:M:785:PRO:HG2	4:M:786:HIS:HD2	1.65	0.61
5:N:1174:LYS:O	5:N:1176:ASN:N	2.33	0.61
4:A:596:THR:C	4:A:598:LEU:H	2.06	0.60
4:A:1198:ASP:O	4:A:1202:MET:HG2	2.01	0.60
4:A:1291:VAL:HG13	4:A:1292:PRO:HD2	1.81	0.60
5:B:27:ALA:O	5:B:29:ASP:N	2.34	0.60
5:B:777:ALA:HA	5:B:1095:LEU:HA	1.83	0.60
5:B:1001:PHE:CE2	6:C:34:ARG:CZ	2.83	0.60
4:M:21:LEU:HD12	4:M:229:SER:HB2	1.83	0.60
4:M:399:HIS:CB	4:M:400:PRO:HD3	2.27	0.60
7:P:7:THR:O	7:P:9:GLN:N	2.34	0.60
9:R:69:LEU:CA	9:R:70:LYS:N	2.63	0.60
10:S:18:PHE:HA	10:S:22:MET:HE3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:35:ILE:HD12	4:A:241:VAL:HG21	1.82	0.60
4:A:1437:GLY:O	4:A:1439:GLY:N	2.34	0.60
5:B:190:TYR:CE2	13:J:62:ARG:HB3	2.35	0.60
5:B:224:GLN:O	5:B:238:ALA:HA	2.01	0.60
5:B:782:LEU:HD12	5:B:788:ARG:HH11	1.66	0.60
8:E:90:VAL:HA	8:E:120:ALA:HB2	1.83	0.60
15:L:53:HIS:HB3	15:L:55:ILE:CD1	2.30	0.60
5:N:1001:PHE:CD2	6:O:34:ARG:NH2	2.69	0.60
5:N:1072:MET:HE1	5:N:1085:ILE:HB	1.81	0.60
6:O:238:ILE:HG23	6:O:242:GLN:HB2	1.83	0.60
7:P:192:LYS:HB3	7:P:192:LYS:HZ3	1.66	0.60
10:S:34:VAL:CG1	10:S:45:ILE:HG21	2.30	0.60
4:A:763:ALA:O	4:A:803:SER:HB3	2.02	0.60
5:B:811:TYR:N	5:B:811:TYR:CD1	2.69	0.60
5:B:843:GLN:O	5:B:846:ILE:HB	2.01	0.60
12:I:106:CYS:O	12:I:107:SER:HB2	2.00	0.60
4:M:244:PRO:HB2	4:M:245:PRO:HD3	1.81	0.60
4:M:475:THR:HG23	4:M:476:SER:N	2.15	0.60
4:M:730:GLY:C	4:M:732:LEU:H	2.09	0.60
4:M:1118:VAL:CG2	4:M:1306:LEU:HB2	2.31	0.60
4:M:1187:GLN:O	4:M:1243:VAL:HG13	2.02	0.60
6:O:165:LYS:O	14:W:6:ARG:NH1	2.34	0.60
9:R:143:PHE:CD1	9:R:143:PHE:C	2.79	0.60
10:S:81:PRO:HB3	10:S:106:MET:HE1	1.82	0.60
5:B:57:TYR:CD1	5:B:57:TYR:N	2.69	0.60
8:E:22:MET:CE	8:E:26:ARG:HH21	2.15	0.60
9:F:90:ARG:HG3	9:F:91:ALA:N	2.15	0.60
9:F:109:VAL:HG11	9:F:123:LYS:HD3	1.82	0.60
13:J:44:TYR:N	13:J:44:TYR:CD2	2.70	0.60
4:M:19:PHE:O	4:M:1416:ALA:HA	1.99	0.60
4:M:477:PRO:CG	4:M:521:MET:HG2	2.32	0.60
4:M:552:TRP:HE3	4:M:651:LYS:HB3	1.66	0.60
4:M:907:THR:CG2	4:M:908:LEU:N	2.64	0.60
4:M:1209:MET:SD	4:M:1236:LEU:HD22	2.42	0.60
5:N:100:PRO:HD2	5:N:180:TYR:CE1	2.37	0.60
5:N:842:ASN:HD22	5:N:845:SER:CB	2.13	0.60
5:N:1099:VAL:HG12	5:N:1100:ASP:N	2.15	0.60
8:Q:29:PHE:O	8:Q:30:ILE:HG13	2.02	0.60
8:Q:39:LEU:O	8:Q:42:PHE:HB3	2.02	0.60
4:A:518:LYS:HE2	4:A:624:SER:O	2.01	0.60
4:A:1101:LEU:HB2	4:A:1355:VAL:HG11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1385:THR:O	4:A:1387:HIS:N	2.35	0.60
7:D:4:SER:O	7:D:5:THR:HB	2.00	0.60
7:D:173:HIS:ND1	7:D:174:PRO:HD2	2.17	0.60
5:N:224:GLN:O	5:N:238:ALA:HA	2.01	0.60
9:R:111:LEU:O	9:R:113:GLY:N	2.34	0.60
10:S:143:ILE:HG22	10:S:144:ARG:N	2.16	0.60
11:T:127:GLY:O	11:T:128:ASN:HB2	2.01	0.60
14:W:6:ARG:O	14:W:9:LEU:HG	2.01	0.60
4:A:87:ALA:HB3	4:A:276:LEU:HD23	1.83	0.60
4:A:230:ARG:H	4:A:233:TRP:HE3	1.42	0.60
4:A:244:PRO:HB2	4:A:245:PRO:HD3	1.81	0.60
4:A:694:THR:O	4:A:698:GLN:HG3	2.00	0.60
5:B:57:TYR:N	5:B:57:TYR:HD1	2.00	0.60
5:B:225:VAL:HA	5:B:237:VAL:O	2.01	0.60
5:B:233:PRO:HG2	5:B:234:ILE:HD12	1.82	0.60
8:E:29:PHE:O	8:E:30:ILE:HG13	2.02	0.60
8:E:175:LEU:HD23	8:E:176:PRO:HD2	1.84	0.60
12:I:7:CYS:HB3	12:I:14:LEU:HD21	1.83	0.60
12:I:103:CYS:CB	12:I:106:CYS:SG	2.89	0.60
4:M:89:PRO:HB2	4:M:204:THR:CG2	2.31	0.60
4:M:534:LEU:O	4:M:534:LEU:HG	2.01	0.60
4:M:1027:ALA:O	4:M:1031:VAL:HG23	2.02	0.60
5:N:542:MET:HE3	5:N:636:PRO:CG	2.31	0.60
5:N:745:PRO:C	5:N:747:MET:H	2.09	0.60
5:N:1115:THR:O	5:N:1116:ARG:HB2	2.00	0.60
7:P:167:LEU:O	7:P:170:THR:OG1	2.18	0.60
4:A:401:GLY:C	4:A:435:HIS:HD2	2.08	0.60
4:A:567:LYS:CB	4:A:568:PRO:CD	2.79	0.60
5:B:549:THR:HG22	5:B:550:ASP:N	2.10	0.60
6:C:76:ASP:O	6:C:79:GLN:HG2	2.02	0.60
4:M:399:HIS:HB3	4:M:400:PRO:CD	2.27	0.60
5:N:53:GLN:HG2	5:N:547:VAL:CG2	2.30	0.60
5:N:294:ASP:O	5:N:296:GLU:N	2.34	0.60
4:A:224:PHE:HD2	4:A:229:SER:O	1.85	0.60
4:A:475:THR:CG2	4:A:476:SER:N	2.64	0.60
5:B:843:GLN:O	5:B:846:ILE:N	2.35	0.60
5:B:1174:LYS:O	5:B:1176:ASN:N	2.33	0.60
11:H:56:THR:HG21	11:H:145:ARG:HE	1.67	0.60
12:I:34:TYR:CD2	12:I:34:TYR:C	2.79	0.60
14:K:42:LEU:HD21	14:K:46:ILE:HD11	1.84	0.60
4:M:401:GLY:C	4:M:435:HIS:CD2	2.80	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:738:LYS:HB2	4:M:740:LEU:HG	1.83	0.60
4:M:868:TYR:CD2	4:M:1058:VAL:HG21	2.34	0.60
4:M:1116:LEU:HB3	4:M:1308:THR:HG21	1.83	0.60
8:Q:179:GLN:HB2	8:Q:182:ASP:HB2	1.84	0.60
11:T:41:ASP:O	11:T:42:ILE:HG13	2.00	0.60
14:W:7:PHE:HA	14:W:10:PHE:CE2	2.37	0.60
4:A:492:PRO:O	4:A:493:GLN:NE2	2.34	0.60
4:A:1011:GLN:NE2	4:A:1015:VAL:HG21	2.17	0.60
4:A:1279:ILE:HD11	4:A:1316:VAL:HG21	1.83	0.60
5:B:745:PRO:O	5:B:747:MET:N	2.35	0.60
9:F:77:ASP:C	9:F:79:ARG:H	2.08	0.60
9:F:111:LEU:O	9:F:113:GLY:N	2.34	0.60
10:G:99:PHE:CE2	10:G:115:MET:HE2	2.36	0.60
10:G:138:THR:CG2	10:G:139:ILE:H	2.01	0.60
4:M:244:PRO:O	4:M:246:VAL:N	2.35	0.60
4:M:741:ASN:HD21	4:M:743:VAL:HB	1.67	0.60
4:M:1369:ALA:O	4:M:1370:LEU:C	2.43	0.60
5:N:343:ILE:CB	5:N:348:ARG:HG3	2.31	0.60
7:P:56:ARG:HB2	7:P:148:LEU:HD22	1.83	0.60
10:S:39:THR:HG22	10:S:40:GLY:N	2.17	0.60
4:A:343:LYS:NZ	5:B:1151:LEU:O	2.35	0.60
4:A:738:LYS:HB2	4:A:740:LEU:HG	1.83	0.60
4:A:896:ARG:HD3	4:A:897:TYR:HE1	1.67	0.60
5:B:211:VAL:O	5:B:480:SER:HA	2.02	0.60
8:E:180:ARG:HH21	8:E:192:ARG:HB2	1.67	0.60
10:G:17:PHE:N	10:G:17:PHE:CD2	2.69	0.60
4:M:224:PHE:CZ	4:M:234:MET:HE2	2.37	0.60
4:M:548:ASN:HA	14:W:60:ALA:HB1	1.84	0.60
4:M:1293:SER:OG	4:M:1294:PRO:HD2	2.02	0.60
4:M:1385:THR:O	4:M:1387:HIS:N	2.35	0.60
5:N:315:LYS:N	5:N:316:PRO:HD2	2.17	0.60
5:N:498:THR:HB	5:N:537:LYS:O	2.02	0.60
5:N:616:ILE:CG1	5:N:697:GLU:HA	2.31	0.60
5:N:1162:ILE:HG22	5:N:1163:CYS:H	1.67	0.60
6:O:100:THR:OG1	6:O:121:VAL:HG21	2.02	0.60
11:T:4:THR:CA	11:T:60:ALA:HB2	2.26	0.60
11:T:58:THR:HG22	11:T:59:ILE:H	1.66	0.60
2:5:27:DA:H2	3:6:2:C:N4	2.00	0.59
4:A:58:LEU:HD11	4:A:80:HIS:H	1.67	0.59
4:A:326:ARG:NH2	4:A:1407:GLU:HG3	2.16	0.59
4:A:450:LEU:HD12	4:A:450:LEU:N	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1121:GLU:CG	4:A:1122:PRO:HD2	2.32	0.59
5:B:226:PHE:HA	5:B:395:GLN:HG3	1.84	0.59
5:B:521:LEU:HB3	5:B:633:VAL:HG11	1.83	0.59
5:B:842:ASN:O	5:B:846:ILE:HG13	2.02	0.59
9:F:89:GLU:OE2	9:F:134:ILE:HG21	2.02	0.59
4:M:783:THR:HG21	4:M:815:PHE:CE2	2.36	0.59
4:M:1336:MET:HE3	4:M:1381:LEU:HG	1.84	0.59
6:O:56:THR:HG21	6:O:145:CYS:SG	2.42	0.59
8:Q:197:LYS:HE2	8:Q:199:ILE:HD11	1.83	0.59
4:A:42:ASP:C	4:A:44:THR:H	2.08	0.59
4:A:115:LEU:CB	4:A:122:MET:HE2	2.28	0.59
5:B:971:THR:OG1	6:C:61:GLU:HG3	2.02	0.59
6:C:100:THR:HG22	6:C:101:LEU:N	2.17	0.59
7:D:8:PHE:CZ	7:D:40:HIS:HA	2.38	0.59
7:D:134:THR:HG22	7:D:136:GLY:H	1.66	0.59
8:E:177:ARG:C	8:E:212:ARG:HD3	2.27	0.59
11:H:82:PRO:C	11:H:84:ALA:H	2.10	0.59
12:I:34:TYR:HD2	12:I:34:TYR:C	2.10	0.59
4:M:35:ILE:HD12	4:M:241:VAL:HG21	1.83	0.59
4:M:187:LYS:HE3	4:M:198:GLU:OE2	2.02	0.59
4:M:541:ILE:HG22	4:M:546:VAL:HG23	1.84	0.59
4:M:567:LYS:CB	4:M:568:PRO:HD2	2.32	0.59
5:N:23:ALA:HB1	5:N:24:PRO:HD2	1.83	0.59
5:N:542:MET:HG2	5:N:747:MET:HB3	1.84	0.59
8:Q:180:ARG:HH21	8:Q:192:ARG:HB2	1.66	0.59
9:R:118:LEU:O	9:R:122:MET:HG3	2.02	0.59
12:U:106:CYS:O	12:U:107:SER:HB2	2.02	0.59
4:A:860:LEU:HD11	4:A:1393:ASN:HB2	1.84	0.59
4:A:1063:MET:SD	4:A:1436:ILE:HG12	2.42	0.59
10:G:79:PHE:HZ	10:G:106:MET:HE2	1.67	0.59
10:G:139:ILE:HG22	10:G:140:LYS:N	2.16	0.59
11:H:127:GLY:O	11:H:128:ASN:HB2	2.02	0.59
4:M:95:PHE:O	4:M:96:ILE:C	2.46	0.59
4:M:567:LYS:HB3	11:T:95:TYR:CA	2.32	0.59
4:M:596:THR:C	4:M:598:LEU:N	2.58	0.59
5:N:175:ARG:HG2	5:N:175:ARG:HH11	1.67	0.59
5:N:802:PRO:HB3	5:N:1091:TYR:CD2	2.37	0.59
5:N:831:SER:HB3	5:N:994:TYR:OH	2.02	0.59
5:N:1159:ARG:HB3	5:N:1159:ARG:NH1	2.16	0.59
11:T:63:LEU:HD22	11:T:90:ALA:HB3	1.83	0.59
11:T:111:LEU:HD23	11:T:127:GLY:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:V:12:LYS:O	13:V:14:VAL:HG23	2.02	0.59
4:A:58:LEU:CD2	4:A:244:PRO:HD2	2.32	0.59
4:A:598:LEU:HD22	11:H:25:ARG:NH1	2.18	0.59
4:A:666:ILE:HD12	4:A:666:ILE:N	2.17	0.59
5:B:515:HIS:CD2	5:B:517:THR:H	2.19	0.59
6:C:262:LEU:HD11	14:K:87:LEU:HD23	1.84	0.59
7:D:60:LYS:O	7:D:64:VAL:HG23	2.01	0.59
8:E:168:TYR:CB	8:E:170:LEU:HG	2.32	0.59
4:M:445:ASN:HB2	4:M:455:MET:HG2	1.84	0.59
4:M:528:LEU:HD12	4:M:528:LEU:C	2.27	0.59
4:M:868:TYR:CE1	4:M:1064:VAL:CG1	2.84	0.59
5:N:433:GLN:O	5:N:437:GLU:HG3	2.01	0.59
4:A:401:GLY:C	4:A:435:HIS:CD2	2.81	0.59
4:A:840:ARG:O	4:A:841:LEU:C	2.45	0.59
4:A:1107:VAL:HG12	4:A:1107:VAL:O	2.01	0.59
5:B:546:SER:OG	5:B:631:GLY:N	2.33	0.59
5:B:756:ILE:O	5:B:759:PRO:HD3	2.02	0.59
5:B:834:ASN:HA	5:B:838:SER:O	2.02	0.59
5:B:1103:ILE:O	5:B:1122:ARG:NH1	2.35	0.59
9:F:97:ARG:O	9:F:101:ILE:HG13	2.02	0.59
10:G:1:MET:O	10:G:3:PHE:CD1	2.56	0.59
12:I:34:TYR:CE2	12:I:36:GLU:HB3	2.37	0.59
4:M:90:VAL:HG13	4:M:297:GLN:HA	1.83	0.59
4:M:471:ASN:OD1	4:M:472:LEU:N	2.35	0.59
4:M:532:ARG:O	4:M:535:THR:HB	2.03	0.59
4:M:1120:LEU:HD13	4:M:1304:TRP:O	2.02	0.59
4:M:1409:LEU:HD13	5:N:1207:LEU:HD11	1.83	0.59
5:N:190:TYR:CE2	13:V:62:ARG:HB3	2.37	0.59
5:N:269:ILE:HD11	5:N:386:LEU:HD21	1.85	0.59
5:N:1007:VAL:CG2	5:N:1008:PRO:HD2	2.32	0.59
13:V:27:GLU:O	13:V:29:GLU:N	2.36	0.59
4:A:1001:ARG:O	4:A:1002:GLY:O	2.21	0.59
4:A:1445:ILE:HD12	4:A:1445:ILE:N	2.03	0.59
4:A:1445:ILE:HG12	10:G:18:PHE:CE2	2.38	0.59
5:B:63:ILE:O	5:B:67:SER:HB3	2.02	0.59
5:B:431:TYR:CZ	5:B:447:ALA:HB2	2.37	0.59
5:B:1084:GLN:NE2	5:B:1084:GLN:N	2.50	0.59
11:H:113:ALA:HB2	11:H:126:GLU:HG3	1.85	0.59
12:I:50:THR:HG22	12:I:52:ILE:H	1.68	0.59
12:I:78:CYS:HB3	12:I:106:CYS:SG	2.42	0.59
4:M:427:GLN:O	4:M:428:TYR:C	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:567:LYS:CB	4:M:568:PRO:CD	2.79	0.59
4:M:971:PHE:CE2	4:M:1040:GLN:HG2	2.37	0.59
5:N:27:ALA:O	5:N:29:ASP:N	2.36	0.59
5:N:378:LEU:O	5:N:378:LEU:HD12	2.03	0.59
5:N:515:HIS:CD2	5:N:517:THR:H	2.18	0.59
5:N:611:PRO:HB3	5:N:685:LEU:HD11	1.82	0.59
5:N:654:ARG:C	5:N:656:GLY:H	2.10	0.59
5:N:990:ILE:HG22	5:N:991:GLY:N	2.17	0.59
5:N:1180:PHE:O	5:N:1181:GLU:O	2.20	0.59
6:O:44:LEU:HD21	6:O:159:ALA:HB1	1.84	0.59
7:P:13:ARG:HB2	7:P:17:LYS:HZ2	1.66	0.59
10:G:1:MET:O	10:G:3:PHE:CE1	2.56	0.59
4:M:401:GLY:C	4:M:435:HIS:HD2	2.10	0.59
5:N:46:GLN:HG3	5:N:47:GLN:N	2.11	0.59
9:R:90:ARG:HG3	9:R:91:ALA:N	2.16	0.59
11:T:58:THR:HB	11:T:143:LEU:HD13	1.85	0.59
4:A:886:ILE:HD11	4:A:943:LEU:HB3	1.83	0.59
4:A:899:VAL:HB	4:A:929:LEU:HD11	1.83	0.59
5:B:291:ILE:HD13	5:B:300:HIS:NE2	2.18	0.59
5:B:603:LEU:HD13	5:B:608:ASP:HB2	1.83	0.59
5:B:731:VAL:HG12	5:B:732:SER:H	1.67	0.59
5:B:1002:THR:HG23	5:B:1006:ILE:HG13	1.83	0.59
6:C:22:LEU:HD13	6:C:230:MET:CE	2.33	0.59
6:C:174:ALA:O	6:C:175:ALA:HB2	2.01	0.59
6:C:189:THR:HG22	6:C:190:ASP:N	2.17	0.59
7:D:8:PHE:CE2	7:D:40:HIS:HA	2.37	0.59
4:M:372:LYS:HA	4:M:435:HIS:ND1	2.18	0.59
4:M:608:ILE:C	4:M:610:GLY:N	2.59	0.59
5:N:217:ARG:HD2	5:N:217:ARG:C	2.27	0.59
5:N:516:ASN:HD22	5:N:516:ASN:H	1.48	0.59
11:T:102:TYR:CD2	11:T:102:TYR:N	2.71	0.59
4:A:407:ARG:HG2	4:A:430:TRP:CH2	2.38	0.59
5:B:287:ARG:NH1	5:B:324:ILE:O	2.36	0.59
5:B:401:PHE:HD2	5:B:521:LEU:HD12	1.67	0.59
5:B:622:LYS:CE	12:I:59:VAL:HG22	2.33	0.59
5:B:969:ARG:HD2	6:C:61:GLU:OE2	2.02	0.59
8:E:179:GLN:HB2	8:E:182:ASP:HB2	1.85	0.59
9:F:119:ARG:HH11	9:F:119:ARG:HG3	1.68	0.59
10:G:48:VAL:HG13	10:G:74:TYR:HD1	1.68	0.59
12:I:14:LEU:HD22	12:I:28:GLU:O	2.03	0.59
6:O:39:ALA:CA	6:O:164:ALA:HB3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:7:LEU:HB2	10:S:74:TYR:HE2	1.63	0.59
4:A:546:VAL:O	4:A:550:LEU:HG	2.03	0.59
4:A:547:LEU:HB3	14:K:58:PHE:CE1	2.37	0.59
4:A:596:THR:C	4:A:598:LEU:N	2.59	0.59
4:A:942:PHE:HD2	4:A:943:LEU:HD23	1.67	0.59
8:E:156:LEU:HD12	8:E:195:VAL:HB	1.85	0.59
4:M:265:LYS:HE2	4:M:322:VAL:CG1	2.33	0.59
4:M:1333:ILE:O	4:M:1337:GLU:HG3	2.03	0.59
5:N:313:MET:HE3	5:N:386:LEU:HD22	1.85	0.59
5:N:527:THR:OG1	5:N:528:PRO:HD2	2.02	0.59
5:N:977:GLY:HA3	5:N:1099:VAL:CG2	2.32	0.59
7:P:213:GLU:O	7:P:217:LEU:HG	2.02	0.59
9:R:81:THR:HB	9:R:136:ARG:HH11	1.67	0.59
13:V:8:PHE:H	13:V:49:MET:CE	2.16	0.59
5:B:121:ASN:HA	5:B:207:GLY:CA	2.33	0.58
8:E:22:MET:HE3	8:E:26:ARG:NH2	2.18	0.58
11:H:63:LEU:HD22	11:H:90:ALA:HB3	1.84	0.58
4:M:224:PHE:HD2	4:M:229:SER:O	1.85	0.58
4:M:482:PHE:O	4:M:484:GLY:N	2.35	0.58
4:M:1039:LYS:HE3	4:M:1043:ASP:OD2	2.02	0.58
5:N:211:VAL:O	5:N:480:SER:HA	2.03	0.58
5:N:758:PHE:HB3	5:N:761:HIS:CD2	2.38	0.58
5:N:999:MET:HA	5:N:999:MET:CE	2.32	0.58
5:N:1182:CYS:O	5:N:1182:CYS:SG	2.61	0.58
6:O:11:ARG:HD3	6:O:209:TYR:CE2	2.37	0.58
7:P:68:ARG:C	7:P:70:PHE:H	2.11	0.58
11:T:56:THR:HG21	11:T:145:ARG:HE	1.68	0.58
4:A:507:VAL:HG13	4:A:521:MET:HE1	1.84	0.58
4:A:665:GLY:O	4:A:667:GLY:N	2.36	0.58
5:B:542:MET:HE2	5:B:743:ILE:HG13	1.85	0.58
6:C:112:ASN:HB2	6:C:114:TYR:CE1	2.38	0.58
7:D:7:THR:O	7:D:9:GLN:N	2.36	0.58
8:E:55:ARG:C	8:E:57:MET:H	2.10	0.58
15:L:47:ARG:HH21	15:L:54:ARG:HH21	1.50	0.58
4:M:1107:VAL:O	4:M:1107:VAL:HG12	2.02	0.58
5:N:603:LEU:HD13	5:N:608:ASP:HB2	1.84	0.58
9:R:77:ASP:C	9:R:79:ARG:H	2.10	0.58
11:T:93:TYR:HB3	11:T:144:ILE:O	2.02	0.58
12:U:112:SER:O	12:U:114:GLN:N	2.36	0.58
4:A:107:CYS:N	4:A:114:LEU:HD21	2.18	0.58
4:A:979:SER:OG	4:A:981:LEU:HG	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:175:ARG:HG2	5:B:175:ARG:HH11	1.67	0.58
5:B:981:ALA:HB2	5:B:987:LYS:HA	1.85	0.58
4:M:901:LEU:O	4:M:921:GLY:N	2.31	0.58
5:N:978:ASP:OD2	5:N:1098:MET:HG2	2.04	0.58
7:P:170:THR:CG2	7:P:172:LEU:HG	2.32	0.58
9:R:85:MET:CE	9:R:93:ILE:HD12	2.32	0.58
11:T:11:GLN:HA	11:T:53:ASP:O	2.03	0.58
12:U:101:PHE:N	12:U:101:PHE:CD1	2.70	0.58
4:A:406:ILE:HG13	4:A:431:LYS:HB2	1.85	0.58
4:A:547:LEU:HB3	14:K:58:PHE:HE1	1.68	0.58
5:B:510:LYS:HG3	5:B:511:PRO:HD3	1.83	0.58
7:D:130:LEU:C	7:D:132:GLN:N	2.62	0.58
9:F:101:ILE:HD11	9:F:124:GLU:OE1	2.03	0.58
10:G:18:PHE:HA	10:G:22:MET:HE3	1.86	0.58
10:G:34:VAL:CG1	10:G:45:ILE:HG21	2.31	0.58
4:M:863:VAL:HG11	4:M:866:PHE:CE2	2.39	0.58
6:O:73:GLN:HB3	6:O:131:HIS:H	1.68	0.58
6:O:112:ASN:HB2	6:O:114:TYR:CE1	2.38	0.58
13:V:27:GLU:C	13:V:29:GLU:H	2.10	0.58
14:W:109:TRP:O	14:W:111:LEU:N	2.34	0.58
4:A:84:ILE:O	4:A:84:ILE:HG23	2.03	0.58
4:A:471:ASN:OD1	4:A:472:LEU:N	2.36	0.58
4:A:886:ILE:CG2	4:A:887:GLY:N	2.66	0.58
4:A:1118:VAL:HG12	4:A:1327:ILE:HG13	1.84	0.58
5:B:125:SER:HA	5:B:171:PRO:HA	1.85	0.58
5:B:831:SER:OG	5:B:840:ILE:HD11	2.03	0.58
5:B:955:THR:CG2	5:B:956:THR:H	2.16	0.58
5:B:1159:ARG:HD3	5:B:1193:GLN:CG	2.32	0.58
6:C:33:LEU:O	6:C:34:ARG:C	2.47	0.58
6:C:252:GLN:HG3	14:K:95:ILE:HG23	1.85	0.58
7:D:18:VAL:HG13	7:D:18:VAL:O	2.02	0.58
11:H:11:GLN:HA	11:H:53:ASP:O	2.03	0.58
12:I:101:PHE:N	12:I:101:PHE:CD1	2.70	0.58
13:J:64:ASN:CB	13:J:65:PRO:CD	2.81	0.58
14:K:10:PHE:N	14:K:10:PHE:CD2	2.70	0.58
4:M:47:ARG:HH12	4:M:254:GLU:HG2	1.66	0.58
4:M:269:ILE:HD11	4:M:300:VAL:HA	1.85	0.58
4:M:899:VAL:HB	4:M:929:LEU:HD11	1.85	0.58
4:M:1279:ILE:O	4:M:1279:ILE:HG22	2.03	0.58
5:N:859:TYR:CZ	5:N:941:LEU:HD12	2.38	0.58
6:O:147:LEU:HD23	6:O:147:LEU:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:238:ILE:HD11	6:O:246:ARG:NH1	2.17	0.58
7:P:4:SER:O	7:P:5:THR:HB	2.04	0.58
4:A:93:VAL:CG2	4:A:301:ALA:HA	2.32	0.58
4:A:444:PHE:CB	4:A:458:HIS:HD2	2.16	0.58
4:A:482:PHE:O	4:A:484:GLY:N	2.36	0.58
5:B:557:PHE:C	5:B:557:PHE:HD2	2.09	0.58
5:B:654:ARG:C	5:B:656:GLY:H	2.10	0.58
5:B:822:ASN:O	13:J:48:ARG:NH1	2.36	0.58
5:B:1138:MET:HA	5:B:1138:MET:HE3	1.85	0.58
4:M:33:ALA:O	4:M:83:HIS:HD2	1.87	0.58
4:M:899:VAL:HB	4:M:929:LEU:HD12	1.85	0.58
5:N:51:PHE:O	5:N:54:PHE:HB3	2.03	0.58
5:N:97:VAL:HG12	5:N:178:ASN:HD21	1.69	0.58
5:N:957:ASN:O	5:N:959:ASP:N	2.36	0.58
5:N:1065:GLN:NE2	5:N:1066:SER:N	2.52	0.58
7:P:130:LEU:C	7:P:132:GLN:N	2.62	0.58
2:5:14:DC:H2"	2:5:15:DT:H71	1.86	0.58
4:A:224:PHE:CE2	4:A:231:PRO:HG3	2.39	0.58
4:A:264:PHE:O	4:A:267:ALA:HB3	2.04	0.58
4:A:265:LYS:HE2	4:A:322:VAL:CG1	2.34	0.58
4:A:590:ARG:HB3	4:A:605:MET:N	2.19	0.58
4:A:761:MET:HA	4:A:804:TYR:HB2	1.85	0.58
5:B:199:MET:HE2	5:B:492:LEU:HD23	1.84	0.58
5:B:288:ALA:HA	5:B:331:LEU:HD12	1.86	0.58
5:B:604:ARG:NH1	5:B:691:GLU:OE2	2.37	0.58
5:B:983:ARG:HD2	5:B:1091:TYR:HD2	1.67	0.58
5:B:1050:ILE:HG22	5:B:1051:THR:N	2.19	0.58
6:C:31:ASN:O	6:C:34:ARG:HB3	2.04	0.58
9:F:147:SER:OG	9:F:150:GLU:HG3	2.03	0.58
10:G:73:LYS:HE2	10:G:74:TYR:O	2.03	0.58
4:M:32:VAL:O	4:M:32:VAL:HG23	2.03	0.58
4:M:1291:VAL:HG13	4:M:1292:PRO:HD2	1.84	0.58
5:N:806:THR:CG2	5:N:808:ALA:HB3	2.34	0.58
5:N:811:TYR:N	5:N:811:TYR:CD1	2.72	0.58
5:N:1070:GLU:OE1	13:V:44:TYR:OH	2.21	0.58
6:O:22:LEU:HD23	6:O:25:VAL:HG21	1.85	0.58
6:O:45:ALA:HA	6:O:72:LEU:HD12	1.85	0.58
6:O:46:ILE:HG23	6:O:157:CYS:HB3	1.85	0.58
7:P:198:LEU:O	7:P:200:ASN:N	2.37	0.58
8:Q:55:ARG:C	8:Q:57:MET:H	2.11	0.58
13:V:64:ASN:HD22	13:V:65:PRO:HD3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:84:ILE:HG22	4:A:239:LEU:HB3	1.86	0.58
4:A:477:PRO:CG	4:A:521:MET:HG2	2.34	0.58
4:A:695:LYS:C	4:A:697:ALA:H	2.12	0.58
4:A:805:LEU:HD11	5:B:1052:VAL:HG21	1.84	0.58
5:B:95:ILE:CG1	5:B:130:VAL:HG22	2.34	0.58
5:B:1106:ARG:HD3	5:B:1126:GLY:C	2.29	0.58
6:C:29:MET:HE2	14:K:98:LEU:HD21	1.86	0.58
6:C:73:GLN:HE21	6:C:75:MET:H	1.50	0.58
6:C:123:ASN:ND2	6:C:125:MET:HG2	2.18	0.58
7:D:176:GLU:C	7:D:178:ALA:N	2.61	0.58
8:E:195:VAL:HG22	8:E:213:ILE:HG13	1.86	0.58
13:J:27:GLU:O	13:J:29:GLU:N	2.37	0.58
4:M:34:LYS:CE	4:M:57:ARG:NH1	2.67	0.58
4:M:463:ILE:HD12	4:M:469:ARG:HD2	1.85	0.58
4:M:675:THR:O	4:M:679:ILE:HG13	2.04	0.58
4:M:695:LYS:C	4:M:697:ALA:H	2.12	0.58
4:M:809:THR:H	4:M:812:GLU:HB2	1.68	0.58
4:M:1341:ILE:CG2	4:M:1342:GLU:N	2.66	0.58
5:N:872:GLU:CD	5:N:914:LYS:HE2	2.28	0.58
5:N:1002:THR:HG21	5:N:1006:ILE:CD1	2.32	0.58
11:T:56:THR:HB	11:T:145:ARG:CG	2.33	0.58
11:T:89:LEU:C	11:T:91:ASP:H	2.12	0.58
12:U:69:PRO:HG2	12:U:85:PHE:CD2	2.38	0.58
1:4:5:DA:C2	2:5:13:DA:C2	2.92	0.58
4:A:548:ASN:HA	14:K:60:ALA:HB1	1.86	0.58
4:A:821:ARG:HD2	4:A:825:ILE:HD11	1.84	0.58
4:A:1444:MET:HG3	10:G:60:ARG:HA	1.84	0.58
5:B:831:SER:HB3	5:B:994:TYR:OH	2.02	0.58
12:I:86:PHE:CE1	12:I:100:PHE:HB2	2.38	0.58
13:J:27:GLU:C	13:J:29:GLU:H	2.11	0.58
4:M:11:LEU:HB2	5:N:1193:GLN:OE1	2.04	0.58
4:M:107:CYS:N	4:M:114:LEU:HD21	2.19	0.58
4:M:412:ARG:NH2	5:N:1108:ARG:HH12	2.01	0.58
4:M:466:SER:HB2	5:N:1099:VAL:HG11	1.86	0.58
5:N:240:ILE:CG2	5:N:254:LEU:HB3	2.33	0.58
5:N:843:GLN:O	5:N:844:SER:C	2.44	0.58
5:N:1107:ALA:O	5:N:1108:ARG:HG2	2.04	0.58
11:T:91:ASP:C	11:T:93:TYR:H	2.11	0.58
2:2:14:DC:H2''	2:2:15:DT:H71	1.86	0.58
1:4:1:DA:C1'	1:4:2:DA:H5'	2.28	0.58
4:A:34:LYS:HB2	4:A:36:ARG:HH21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:51:GLY:HA2	4:A:56:PRO:HA	1.84	0.58
4:A:871:ASP:OD2	4:A:873:MET:HB2	2.04	0.58
4:A:984:LYS:O	4:A:988:LEU:HB2	2.03	0.58
5:B:516:ASN:HD22	5:B:516:ASN:H	1.51	0.58
5:B:1102:LYS:O	5:B:1103:ILE:C	2.46	0.58
6:C:66:ARG:NH1	6:C:144:ILE:O	2.36	0.58
7:D:57:LEU:O	7:D:61:GLU:HB2	2.04	0.58
9:F:85:MET:HE2	9:F:93:ILE:HD12	1.86	0.58
11:H:81:PRO:HB2	11:H:82:PRO:CD	2.33	0.58
11:H:123:MET:HG2	11:H:124:ARG:N	2.19	0.58
13:J:28:ASP:O	13:J:30:LEU:HG	2.04	0.58
4:M:34:LYS:HZ1	4:M:57:ARG:CZ	2.16	0.58
4:M:1299:VAL:HG12	4:M:1300:LYS:N	2.19	0.58
5:N:546:SER:OG	5:N:631:GLY:N	2.34	0.58
5:N:882:THR:HG21	5:N:935:ARG:HA	1.86	0.58
6:O:31:ASN:O	6:O:32:SER:C	2.47	0.58
10:S:13:LEU:CD2	10:S:17:PHE:HB2	2.30	0.58
4:A:50:ILE:C	4:A:52:GLY:N	2.62	0.57
4:A:55:ASP:CG	4:A:55:ASP:O	2.41	0.57
4:A:372:LYS:HA	4:A:435:HIS:ND1	2.19	0.57
4:A:381:THR:HG23	4:A:383:TYR:H	1.68	0.57
5:B:745:PRO:C	5:B:747:MET:N	2.62	0.57
5:B:1065:GLN:NE2	5:B:1066:SER:H	2.02	0.57
5:B:1110:PRO:HB2	5:B:1119:VAL:HG21	1.86	0.57
15:L:53:HIS:HB3	15:L:55:ILE:HD11	1.86	0.57
5:N:401:PHE:HD2	5:N:521:LEU:HD12	1.68	0.57
5:N:604:ARG:NH1	5:N:691:GLU:OE2	2.37	0.57
9:R:99:LEU:C	9:R:99:LEU:HD12	2.29	0.57
12:U:61:ASP:C	12:U:63:GLY:H	2.11	0.57
4:A:450:LEU:HB3	4:A:838:GLN:NE2	2.19	0.57
4:A:742:ASN:O	4:A:745:GLN:HB2	2.03	0.57
5:B:865:LYS:HE2	5:B:871:THR:OG1	2.05	0.57
5:B:1099:VAL:O	5:B:1101:ASP:N	2.36	0.57
11:H:83:GLN:C	11:H:85:GLY:H	2.11	0.57
4:M:1376:THR:O	4:M:1377:THR:C	2.47	0.57
5:N:329:THR:O	5:N:332:ASP:HB3	2.04	0.57
5:N:521:LEU:HD13	5:N:633:VAL:HB	1.87	0.57
5:N:874:PHE:HA	5:N:913:GLY:O	2.03	0.57
6:O:174:ALA:O	6:O:175:ALA:HB2	2.03	0.57
7:P:66:ARG:O	7:P:70:PHE:HB2	2.05	0.57
14:W:69:ALA:O	14:W:70:ARG:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1362:TYR:CD1	4:A:1363:VAL:N	2.72	0.57
4:A:1397:LEU:O	4:A:1400:CYS:HB3	2.04	0.57
5:B:247:GLY:C	5:B:249:ARG:N	2.62	0.57
5:B:778:MET:CE	5:B:1094:ARG:CD	2.80	0.57
5:B:1110:PRO:HG3	5:B:1125:ASP:HB3	1.86	0.57
6:C:66:ARG:CZ	13:J:2:ILE:HG21	2.34	0.57
12:I:85:PHE:CD2	12:I:85:PHE:N	2.62	0.57
4:M:71:GLN:C	4:M:73:GLY:H	2.11	0.57
4:M:154:SER:HB3	4:M:162:VAL:HG21	1.86	0.57
4:M:332:LYS:HG3	4:M:333:GLU:HG2	1.86	0.57
4:M:381:THR:HG23	4:M:383:TYR:H	1.70	0.57
4:M:648:ASN:O	4:M:649:ILE:C	2.46	0.57
5:N:57:TYR:N	5:N:57:TYR:CD1	2.72	0.57
5:N:466:TRP:O	5:N:468:GLU:N	2.36	0.57
5:N:580:VAL:HG22	5:N:624:LEU:HB3	1.86	0.57
5:N:693:ILE:HD13	5:N:701:ILE:HD13	1.86	0.57
5:N:731:VAL:HG12	5:N:732:SER:H	1.69	0.57
7:P:134:THR:CG2	7:P:135:GLY:N	2.67	0.57
8:Q:35:VAL:C	8:Q:37:LEU:H	2.11	0.57
4:A:90:VAL:CG1	4:A:297:GLN:HA	2.34	0.57
4:A:98:LYS:O	4:A:99:ILE:C	2.48	0.57
4:A:722:LEU:HD22	4:A:799:PHE:CD1	2.39	0.57
4:A:809:THR:H	4:A:812:GLU:HB2	1.69	0.57
4:A:845:LEU:O	4:A:846:GLU:C	2.47	0.57
4:A:849:MET:CE	4:A:1061:GLY:HA2	2.34	0.57
5:B:51:PHE:O	5:B:54:PHE:HB3	2.04	0.57
5:B:794:ASN:O	5:B:795:ILE:HD12	2.03	0.57
5:B:842:ASN:ND2	5:B:845:SER:H	2.03	0.57
5:B:882:THR:HB	5:B:934:LYS:O	2.04	0.57
6:C:83:SER:OG	6:C:160:LYS:HD3	2.04	0.57
9:F:128:LYS:HD3	9:F:149:GLU:O	2.03	0.57
11:H:62:SER:C	11:H:64:ASN:H	2.12	0.57
12:I:112:SER:O	12:I:114:GLN:HG3	2.04	0.57
4:M:16:GLU:HB3	4:M:1418:LEU:HD11	1.86	0.57
4:M:84:ILE:HG23	4:M:84:ILE:O	2.03	0.57
4:M:1224:LEU:HD12	4:M:1241:ARG:O	2.05	0.57
4:M:1259:MET:C	4:M:1261:LYS:H	2.12	0.57
5:N:102:VAL:O	5:N:109:THR:HA	2.04	0.57
5:N:778:MET:HE2	5:N:1094:ARG:HG2	1.86	0.57
6:O:249:ASP:O	6:O:252:GLN:HB3	2.05	0.57
7:P:176:GLU:C	7:P:178:ALA:N	2.62	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:90:ARG:HD3	9:R:155:LEU:HD11	1.86	0.57
11:T:81:PRO:HB2	11:T:82:PRO:CD	2.33	0.57
11:T:82:PRO:C	11:T:84:ALA:H	2.12	0.57
4:A:356:ASP:HB2	4:A:469:ARG:HH11	1.66	0.57
4:A:534:LEU:O	4:A:534:LEU:HG	2.03	0.57
4:A:886:ILE:HG13	4:A:943:LEU:HD12	1.86	0.57
4:A:1030:ARG:NH1	4:A:1035:TYR:OH	2.38	0.57
4:A:1341:ILE:CG2	4:A:1342:GLU:N	2.67	0.57
9:F:143:PHE:C	9:F:143:PHE:CD1	2.81	0.57
13:J:64:ASN:CB	13:J:65:PRO:HD3	2.32	0.57
4:M:224:PHE:CE2	4:M:231:PRO:HG3	2.40	0.57
4:M:527:THR:HG23	4:M:650:GLN:HA	1.87	0.57
4:M:1428:VAL:HG13	5:N:1151:LEU:CD2	2.33	0.57
5:N:737:THR:CG2	12:U:66:PRO:HA	2.34	0.57
5:N:1045:SER:O	5:N:1046:PRO:O	2.21	0.57
8:Q:23:VAL:O	8:Q:28:TYR:HB2	2.04	0.57
9:R:99:LEU:HD12	9:R:99:LEU:O	2.04	0.57
11:T:44:VAL:O	11:T:44:VAL:HG12	2.03	0.57
14:W:112:GLN:CB	14:W:112:GLN:C	2.74	0.57
1:4:6:DC:C1'	1:4:7:DT:H5'	2.33	0.57
4:A:7:SER:C	4:A:9:ALA:H	2.12	0.57
4:A:316:GLN:O	4:A:317:LYS:C	2.47	0.57
4:A:563:PRO:HG3	4:A:572:TRP:CE2	2.40	0.57
5:B:472:ALA:C	5:B:474:SER:H	2.10	0.57
5:B:542:MET:HE3	5:B:636:PRO:CG	2.35	0.57
5:B:603:LEU:HD12	5:B:609:ILE:HG13	1.86	0.57
5:B:693:ILE:HD13	5:B:701:ILE:HD13	1.87	0.57
5:B:1095:LEU:HD12	5:B:1095:LEU:N	2.19	0.57
9:F:69:LEU:CA	9:F:70:LYS:N	2.67	0.57
11:H:102:TYR:N	11:H:102:TYR:CD2	2.73	0.57
4:M:50:ILE:O	4:M:52:GLY:N	2.34	0.57
4:M:93:VAL:CG2	4:M:301:ALA:HA	2.34	0.57
4:M:316:GLN:O	4:M:317:LYS:C	2.47	0.57
5:N:95:ILE:HG13	5:N:129:PHE:O	2.04	0.57
6:O:152:GLU:OE2	6:O:154:LYS:HE3	2.04	0.57
7:P:48:ILE:CG2	10:S:4:ILE:HB	2.33	0.57
9:R:69:LEU:N	9:R:70:LYS:N	2.53	0.57
12:U:52:ILE:O	12:U:52:ILE:HG13	2.04	0.57
4:A:508:PRO:O	4:A:511:ILE:HG13	2.05	0.57
4:A:843:LYS:HD3	4:A:846:GLU:OE2	2.04	0.57
5:B:205:ILE:N	5:B:205:ILE:HD12	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:240:ILE:CG2	5:B:254:LEU:HB3	2.34	0.57
5:B:265:SER:O	5:B:266:ALA:HB3	2.04	0.57
5:B:434:ARG:HA	5:B:437:GLU:CD	2.30	0.57
5:B:810:GLU:HB2	5:B:815:ARG:HH22	1.68	0.57
5:B:1079:LYS:HA	6:C:27:LEU:HD21	1.87	0.57
14:K:47:ARG:C	14:K:47:ARG:HD2	2.30	0.57
4:M:598:LEU:HA	11:T:122:LEU:HD13	1.86	0.57
4:M:683:ILE:HG21	4:M:801:GLU:HG3	1.86	0.57
4:M:730:GLY:O	4:M:732:LEU:N	2.38	0.57
4:M:840:ARG:O	4:M:841:LEU:C	2.47	0.57
5:N:359:GLU:O	5:N:362:PRO:HD3	2.03	0.57
5:N:1202:LEU:HD22	5:N:1206:GLU:CD	2.30	0.57
7:P:128:VAL:O	7:P:132:GLN:HG3	2.04	0.57
10:S:145:VAL:HG12	10:S:146:LYS:N	2.18	0.57
13:V:64:ASN:CB	13:V:65:PRO:CD	2.82	0.57
4:A:528:LEU:C	4:A:528:LEU:HD12	2.29	0.57
4:A:1329:THR:H	4:A:1335:ILE:HD11	1.69	0.57
4:A:1450:LEU:O	4:A:1450:LEU:HG	2.04	0.57
6:C:252:GLN:CG	14:K:95:ILE:HG23	2.34	0.57
7:D:56:ARG:HA	7:D:148:LEU:HD13	1.86	0.57
10:G:39:THR:HG22	10:G:40:GLY:H	1.68	0.57
13:J:8:PHE:H	13:J:49:MET:CE	2.17	0.57
14:K:7:PHE:HA	14:K:10:PHE:CE2	2.40	0.57
4:M:852:TYR:HA	4:M:1060:PRO:HB3	1.87	0.57
4:M:1116:LEU:HB2	4:M:1329:THR:OG1	2.04	0.57
4:M:1121:GLU:CG	4:M:1122:PRO:HD2	2.31	0.57
4:M:1313:LEU:HD23	4:M:1338:VAL:HG21	1.85	0.57
5:N:343:ILE:CG2	5:N:348:ARG:N	2.68	0.57
5:N:1077:THR:HG22	14:W:44:ASN:ND2	2.20	0.57
6:O:35:ARG:NH1	14:W:41:THR:H	2.01	0.57
6:O:69:LEU:HD12	6:O:69:LEU:N	2.20	0.57
7:P:40:HIS:CE1	7:P:41:GLN:HG3	2.40	0.57
7:P:53:SER:HB3	7:P:152:SER:CA	2.34	0.57
10:S:80:LYS:HG2	10:S:80:LYS:O	2.04	0.57
12:U:86:PHE:CE1	12:U:100:PHE:HB2	2.40	0.57
5:B:315:LYS:N	5:B:316:PRO:HD2	2.20	0.57
5:B:562:GLY:HA3	5:B:590:HIS:CE1	2.39	0.57
5:B:830:TYR:O	5:B:831:SER:C	2.47	0.57
5:B:916:THR:O	5:B:935:ARG:HG3	2.05	0.57
6:C:179:GLU:HG2	6:C:180:TYR:H	1.70	0.57
13:J:64:ASN:ND2	13:J:65:PRO:HD3	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:K:112:GLN:CB	14:K:112:GLN:C	2.75	0.57
4:M:37:PHE:CD1	4:M:37:PHE:N	2.72	0.57
4:M:730:GLY:C	4:M:732:LEU:N	2.61	0.57
4:M:942:PHE:HD2	4:M:943:LEU:HD23	1.70	0.57
4:M:1410:PHE:HA	5:N:1212:ILE:CD1	2.35	0.57
5:N:787:VAL:O	5:N:787:VAL:HG12	2.05	0.57
5:N:1077:THR:HG22	14:W:44:ASN:HD21	1.68	0.57
8:Q:22:MET:HE3	8:Q:26:ARG:NH2	2.19	0.57
8:Q:55:ARG:C	8:Q:57:MET:N	2.63	0.57
8:Q:192:ARG:HG3	8:Q:192:ARG:NH1	2.20	0.57
2:5:20:DC:H2''	2:5:21:DC:H5'	1.85	0.57
4:A:77:CYS:C	4:A:78:PRO:O	2.47	0.57
4:A:1369:ALA:O	4:A:1370:LEU:C	2.46	0.57
5:B:130:VAL:HB	5:B:167:ILE:CD1	2.35	0.57
5:B:459:TYR:C	5:B:459:TYR:CD2	2.83	0.57
5:B:1007:VAL:CG2	5:B:1008:PRO:HD2	2.35	0.57
6:C:238:ILE:HG23	6:C:242:GLN:HB2	1.87	0.57
7:D:191:ALA:O	7:D:193:THR:N	2.38	0.57
13:J:1:MET:H2	13:J:57:ILE:N	1.83	0.57
4:M:979:SER:OG	4:M:981:LEU:HG	2.05	0.57
4:M:1362:TYR:CD1	4:M:1363:VAL:N	2.72	0.57
5:N:973:ILE:HG23	5:N:974:PRO:HD2	1.87	0.57
4:A:50:ILE:O	4:A:52:GLY:N	2.38	0.56
4:A:335:ARG:HD2	5:B:1206:GLU:OE1	2.05	0.56
4:A:349:ALA:C	5:B:1128:LEU:HD11	2.30	0.56
4:A:821:ARG:HB2	4:A:821:ARG:NH1	2.19	0.56
5:B:731:VAL:HG12	5:B:732:SER:N	2.20	0.56
5:B:797:TYR:O	13:J:1:MET:HG2	2.05	0.56
6:C:263:THR:C	6:C:265:MET:N	2.63	0.56
7:D:7:THR:HB	10:G:42:PHE:CZ	2.40	0.56
7:D:51:ASN:O	7:D:52:LEU:O	2.23	0.56
7:D:134:THR:CG2	7:D:135:GLY:N	2.68	0.56
8:E:23:VAL:O	8:E:28:TYR:HB2	2.04	0.56
13:J:1:MET:H1	13:J:56:LEU:N	2.02	0.56
4:M:364:VAL:HG13	4:M:364:VAL:O	2.03	0.56
4:M:590:ARG:HG3	4:M:590:ARG:HH11	1.70	0.56
4:M:741:ASN:ND2	4:M:744:LYS:H	2.02	0.56
4:M:843:LYS:HD3	4:M:846:GLU:OE2	2.05	0.56
5:N:288:ALA:HA	5:N:331:LEU:HD12	1.87	0.56
5:N:583:ASN:HD21	5:N:628:THR:HB	1.68	0.56
5:N:821:GLN:NE2	5:N:851:PHE:HA	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:864:LYS:N	5:N:872:GLU:OE1	2.38	0.56
5:N:1163:CYS:SG	5:N:1165:ILE:HB	2.44	0.56
13:V:43:ARG:O	13:V:47:ARG:HB2	2.05	0.56
1:1:5:DA:C2	2:2:13:DA:C2	2.93	0.56
4:A:816:HIS:CD2	5:B:764:SER:HB2	2.41	0.56
4:A:1423:GLY:HA3	4:A:1426:GLU:HG2	1.87	0.56
5:B:872:GLU:CD	5:B:914:LYS:HE2	2.29	0.56
5:B:1166:CYS:SG	5:B:1166:CYS:O	2.63	0.56
4:M:475:THR:CG2	4:M:476:SER:N	2.68	0.56
4:M:565:ILE:O	4:M:570:PRO:HA	2.05	0.56
5:N:705:MET:HE3	5:N:705:MET:HA	1.87	0.56
5:N:803:LEU:CD1	5:N:1032:SER:HB3	2.35	0.56
5:N:827:ILE:O	5:N:827:ILE:HG22	2.04	0.56
6:O:18:VAL:O	6:O:18:VAL:HG12	2.03	0.56
4:A:14:VAL:H	4:A:1432:GLN:HE22	1.53	0.56
4:A:527:THR:HG23	4:A:650:GLN:HA	1.88	0.56
4:A:785:PRO:HG2	4:A:786:HIS:HD2	1.70	0.56
4:A:896:ARG:HD3	4:A:897:TYR:CE1	2.40	0.56
4:A:1341:ILE:HG23	4:A:1342:GLU:H	1.69	0.56
4:A:1389:PHE:CD1	4:A:1389:PHE:C	2.83	0.56
5:B:269:ILE:HD11	5:B:386:LEU:HD21	1.88	0.56
5:B:1163:CYS:SG	5:B:1165:ILE:HB	2.45	0.56
7:D:53:SER:HB3	7:D:152:SER:CA	2.35	0.56
10:G:13:LEU:CD2	10:G:17:PHE:HB2	2.31	0.56
11:H:38:LEU:HD12	11:H:124:ARG:O	2.06	0.56
12:I:52:ILE:HG13	12:I:52:ILE:O	2.05	0.56
4:M:35:ILE:CD1	4:M:241:VAL:HG11	2.36	0.56
4:M:56:PRO:O	4:M:57:ARG:HG3	2.05	0.56
4:M:93:VAL:CG1	4:M:301:ALA:HB1	2.31	0.56
4:M:547:LEU:HD22	14:W:58:PHE:HD1	1.69	0.56
5:N:308:TRP:HA	5:N:311:LEU:HD12	1.87	0.56
5:N:376:PHE:CE2	5:N:569:TYR:HD2	2.22	0.56
5:N:376:PHE:HE2	5:N:569:TYR:HD2	1.53	0.56
5:N:640:VAL:O	5:N:641:GLU:C	2.48	0.56
5:N:745:PRO:O	5:N:747:MET:N	2.38	0.56
5:N:756:ILE:O	5:N:759:PRO:HD3	2.05	0.56
5:N:899:ILE:HD12	5:N:911:ILE:HG23	1.86	0.56
7:P:53:SER:HB3	7:P:152:SER:CB	2.34	0.56
8:Q:9:ILE:CD1	8:Q:53:PRO:HD3	2.35	0.56
8:Q:124:VAL:HB	8:Q:125:PRO:HD3	1.88	0.56
8:Q:195:VAL:HG22	8:Q:213:ILE:HG13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:V:1:MET:H3	13:V:56:LEU:N	2.04	0.56
4:A:34:LYS:NZ	4:A:57:ARG:CZ	2.69	0.56
4:A:265:LYS:NZ	4:A:322:VAL:HG13	2.20	0.56
7:D:63:LEU:O	7:D:129:LEU:HD11	2.05	0.56
4:M:23:SER:HB3	4:M:233:TRP:CZ2	2.40	0.56
4:M:351:THR:CB	5:N:1103:ILE:HD12	2.32	0.56
4:M:382:PRO:HB3	4:M:428:TYR:CE2	2.37	0.56
4:M:608:ILE:HB	4:M:613:ILE:HD11	1.88	0.56
4:M:767:GLN:HE21	4:M:774:ARG:HB3	1.71	0.56
5:N:431:TYR:CZ	5:N:447:ALA:HB2	2.40	0.56
5:N:871:THR:HG22	5:N:872:GLU:O	2.05	0.56
6:O:34:ARG:O	6:O:38:ILE:HG13	2.06	0.56
11:T:61:SER:HB2	11:T:139:ASN:HB3	1.88	0.56
4:A:34:LYS:CE	4:A:57:ARG:HH12	2.18	0.56
4:A:1279:ILE:HG22	4:A:1279:ILE:O	2.05	0.56
5:B:100:PRO:HD2	5:B:180:TYR:CE1	2.41	0.56
5:B:291:ILE:HD13	5:B:300:HIS:CD2	2.40	0.56
5:B:329:THR:O	5:B:332:ASP:HB3	2.06	0.56
5:B:899:ILE:O	5:B:952:VAL:HG21	2.05	0.56
5:B:1023:VAL:O	5:B:1026:LEU:HB2	2.05	0.56
8:E:202:SER:HB3	8:E:205:SER:O	2.06	0.56
4:M:17:VAL:HA	5:N:1215:ARG:O	2.06	0.56
4:M:244:PRO:CB	4:M:245:PRO:HD3	2.36	0.56
4:M:1029:ARG:HG3	4:M:1029:ARG:HH11	1.71	0.56
4:M:1441:PHE:CZ	9:R:89:GLU:HA	2.41	0.56
5:N:57:TYR:N	5:N:57:TYR:HD1	2.04	0.56
5:N:865:LYS:HE2	5:N:871:THR:OG1	2.06	0.56
6:O:67:LEU:HD11	6:O:155:LEU:HD13	1.87	0.56
8:Q:202:SER:OG	8:Q:204:THR:HG22	2.05	0.56
13:V:64:ASN:CB	13:V:65:PRO:HD3	2.33	0.56
4:A:657:LEU:O	4:A:657:LEU:HD12	2.05	0.56
4:A:1279:ILE:CD1	4:A:1316:VAL:HG21	2.36	0.56
5:B:654:ARG:H	5:B:657:HIS:CD2	2.16	0.56
6:C:35:ARG:HH11	14:K:41:THR:CA	2.18	0.56
10:G:165:GLU:HB2	10:G:168:LEU:HD12	1.88	0.56
12:I:62:ILE:O	12:I:62:ILE:HG12	2.06	0.56
4:M:768:GLN:HG2	4:M:816:HIS:CA	2.35	0.56
4:M:852:TYR:CD2	4:M:1060:PRO:CB	2.89	0.56
4:M:883:LEU:HD11	4:M:1017:LEU:HD11	1.87	0.56
4:M:947:PHE:CD2	4:M:954:TRP:CE2	2.94	0.56
4:M:1356:ILE:HD12	4:M:1368:MET:SD	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:281:PRO:O	5:N:283:VAL:N	2.39	0.56
5:N:472:ALA:C	5:N:474:SER:H	2.12	0.56
5:N:1065:GLN:NE2	5:N:1067:ARG:H	2.03	0.56
5:N:1102:LYS:O	5:N:1103:ILE:C	2.48	0.56
6:O:140:ASN:O	6:O:141:GLY:O	2.23	0.56
9:R:109:VAL:HG11	9:R:123:LYS:HD3	1.88	0.56
15:X:31:CYS:SG	15:X:34:CYS:N	2.76	0.56
4:A:341:MET:HE2	4:A:843:LYS:HZ1	1.68	0.56
4:A:402:ALA:CB	4:A:434:ARG:HA	2.36	0.56
4:A:667:GLY:HA3	6:C:192:TRP:CH2	2.39	0.56
4:A:1095:THR:O	4:A:1096:SER:HB2	2.06	0.56
4:A:1323:ASP:C	4:A:1325:THR:H	2.12	0.56
5:B:19:GLU:O	5:B:20:ASP:C	2.49	0.56
5:B:45:SER:O	5:B:46:GLN:C	2.48	0.56
8:E:13:TRP:O	8:E:16:PHE:HB3	2.06	0.56
8:E:55:ARG:C	8:E:57:MET:N	2.64	0.56
8:E:157:SER:HG	8:E:160:GLU:HG3	1.71	0.56
11:H:93:TYR:HB3	11:H:144:ILE:O	2.05	0.56
4:M:697:ALA:C	4:M:699:ALA:H	2.11	0.56
5:N:770:GLN:HG2	5:N:983:ARG:O	2.06	0.56
5:N:843:GLN:O	5:N:846:ILE:N	2.39	0.56
6:O:44:LEU:HD21	6:O:159:ALA:CB	2.36	0.56
6:O:263:THR:C	6:O:265:MET:N	2.63	0.56
7:P:17:LYS:CA	7:P:17:LYS:HE3	2.34	0.56
11:T:83:GLN:C	11:T:85:GLY:H	2.13	0.56
4:A:356:ASP:O	4:A:358:ASN:N	2.38	0.56
4:A:1120:LEU:N	4:A:1120:LEU:CD1	2.69	0.56
5:B:746:SER:HB2	5:B:1046:PRO:HG2	1.87	0.56
5:B:792:MET:HG3	5:B:855:PHE:HE1	1.70	0.56
7:D:29:LEU:HD22	10:G:82:PHE:CE2	2.40	0.56
13:J:14:VAL:HG12	13:J:50:ILE:HD11	1.87	0.56
4:M:353:ILE:HD12	4:M:470:LEU:HD21	1.88	0.56
4:M:1389:PHE:CD1	4:M:1389:PHE:C	2.84	0.56
5:N:185:THR:H	5:N:188:ASP:HB2	1.71	0.56
5:N:247:GLY:C	5:N:249:ARG:N	2.61	0.56
5:N:882:THR:HB	5:N:934:LYS:O	2.06	0.56
10:S:127:PRO:HG2	10:S:138:THR:HG21	1.88	0.56
4:A:21:LEU:HG	4:A:1413:GLY:O	2.06	0.56
4:A:88:LYS:HE3	4:A:280:GLU:OE2	2.05	0.56
4:A:90:VAL:HG13	4:A:297:GLN:CD	2.31	0.56
4:A:438:ASP:OD1	4:A:462:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:192:LEU:O	5:B:193:LYS:HB2	2.05	0.56
5:B:840:ILE:HB	5:B:1011:ILE:HB	1.87	0.56
5:B:1096:ARG:O	5:B:1097:HIS:CB	2.48	0.56
6:C:70:ILE:HD11	6:C:144:ILE:HG12	1.88	0.56
6:C:104:PHE:HD2	6:C:105:GLY:N	2.04	0.56
6:C:147:LEU:N	6:C:147:LEU:HD23	2.21	0.56
9:F:69:LEU:N	9:F:70:LYS:N	2.54	0.56
9:F:74:ILE:HG23	9:F:75:PRO:HD2	1.87	0.56
10:G:115:MET:HB3	10:G:116:PRO:HD2	1.87	0.56
4:M:1261:LYS:O	4:M:1264:GLU:HB3	2.06	0.56
5:N:797:TYR:O	13:V:1:MET:HG2	2.05	0.56
11:T:25:ARG:HA	11:T:41:ASP:HA	1.88	0.56
4:A:47:ARG:HH12	4:A:254:GLU:HG2	1.70	0.56
4:A:601:LYS:HB2	4:A:603:ASN:ND2	2.21	0.56
5:B:185:THR:H	5:B:188:ASP:HB2	1.71	0.56
5:B:606:LYS:HD2	5:B:608:ASP:OD2	2.06	0.56
5:B:787:VAL:O	5:B:787:VAL:HG12	2.06	0.56
5:B:794:ASN:C	5:B:795:ILE:HD12	2.31	0.56
9:F:93:ILE:HD11	9:F:134:ILE:CD1	2.27	0.56
4:M:268:ASP:HB3	4:M:299:HIS:CE1	2.41	0.56
4:M:356:ASP:O	4:M:358:ASN:N	2.39	0.56
4:M:446:ARG:HD2	4:M:480:ALA:HB2	1.87	0.56
4:M:720:ARG:O	4:M:724:GLU:HB2	2.06	0.56
4:M:1329:THR:H	4:M:1335:ILE:HD11	1.71	0.56
5:N:365:THR:HG23	5:N:367:LEU:HG	1.87	0.56
5:N:486:TYR:CZ	5:N:1096:ARG:HB3	2.41	0.56
10:S:79:PHE:CZ	10:S:106:MET:HE2	2.39	0.56
14:W:85:ASP:O	14:W:88:LYS:HB2	2.05	0.56
3:3:3:G:H2'	3:3:4:A:H8	1.69	0.55
4:A:1211:GLN:O	4:A:1212:VAL:C	2.50	0.55
5:B:95:ILE:HG13	5:B:129:PHE:O	2.05	0.55
5:B:516:ASN:ND2	5:B:516:ASN:H	2.03	0.55
5:B:563:MET:HE3	5:B:580:VAL:HB	1.88	0.55
5:B:1180:PHE:O	5:B:1181:GLU:O	2.23	0.55
6:C:254:LYS:O	6:C:256:ALA:N	2.38	0.55
7:D:191:ALA:C	7:D:193:THR:H	2.12	0.55
11:H:25:ARG:HA	11:H:41:ASP:HA	1.88	0.55
4:M:1423:GLY:HA3	4:M:1426:GLU:HG2	1.87	0.55
4:M:1444:MET:HG2	10:S:60:ARG:CA	2.35	0.55
5:N:557:PHE:C	5:N:557:PHE:HD2	2.12	0.55
5:N:745:PRO:C	5:N:747:MET:N	2.64	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:1099:VAL:HG12	5:N:1100:ASP:H	1.69	0.55
8:Q:202:SER:HB3	8:Q:205:SER:O	2.07	0.55
9:R:125:LEU:O	9:R:125:LEU:HG	2.05	0.55
4:A:1291:VAL:HG13	4:A:1292:PRO:CD	2.36	0.55
4:A:1305:VAL:HG12	4:A:1306:LEU:N	2.21	0.55
4:A:1441:PHE:CZ	9:F:89:GLU:HA	2.41	0.55
5:B:281:PRO:O	5:B:283:VAL:N	2.39	0.55
5:B:449:ASN:C	5:B:451:LYS:H	2.14	0.55
5:B:521:LEU:HD13	5:B:633:VAL:HB	1.88	0.55
5:B:640:VAL:O	5:B:641:GLU:C	2.49	0.55
5:B:1099:VAL:HG13	5:B:1100:ASP:N	2.20	0.55
7:D:68:ARG:C	7:D:70:PHE:H	2.14	0.55
10:G:106:MET:HG2	10:G:107:LYS:N	2.20	0.55
11:H:56:THR:HB	11:H:145:ARG:CG	2.35	0.55
12:I:26:LEU:CD2	12:I:37:GLU:HA	2.33	0.55
12:I:55:THR:CG2	12:I:58:VAL:HG21	2.36	0.55
13:J:23:ASN:C	13:J:25:LEU:N	2.64	0.55
4:M:224:PHE:CD2	4:M:231:PRO:HG3	2.40	0.55
5:N:273:LEU:HD12	5:N:280:ILE:HD12	1.88	0.55
5:N:847:ASP:C	5:N:849:GLY:N	2.63	0.55
6:O:112:ASN:HD22	6:O:112:ASN:N	2.04	0.55
6:O:142:VAL:N	13:V:16:ASP:HB3	2.14	0.55
7:P:138:ASN:OD1	7:P:141:LEU:HB2	2.05	0.55
10:S:39:THR:HG22	10:S:40:GLY:H	1.71	0.55
14:W:46:ILE:O	14:W:50:LEU:HB2	2.06	0.55
4:A:75:ASN:O	4:A:76:GLU:CB	2.54	0.55
4:A:746:MET:HE3	5:B:1018:PRO:HG2	1.89	0.55
5:B:310:MET:HE1	5:B:387:LEU:CD1	2.36	0.55
5:B:980:PHE:HD2	5:B:1094:ARG:HA	1.71	0.55
6:C:73:GLN:NE2	6:C:74:SER:H	2.05	0.55
6:C:100:THR:OG1	6:C:121:VAL:HG21	2.06	0.55
8:E:35:VAL:C	8:E:37:LEU:H	2.13	0.55
8:E:207:ARG:CB	8:E:207:ARG:HH11	2.20	0.55
14:K:49:GLU:HG3	14:K:94:ILE:CG1	2.36	0.55
4:M:402:ALA:CB	4:M:434:ARG:HA	2.36	0.55
4:M:805:LEU:HD11	5:N:1052:VAL:HG21	1.88	0.55
4:M:982:THR:O	4:M:985:ASP:HB2	2.07	0.55
5:N:337:ARG:C	5:N:338:GLY:CA	2.80	0.55
6:O:66:ARG:HH12	13:V:2:ILE:HG21	1.67	0.55
14:W:35:PHE:CD1	14:W:71:PHE:CE1	2.95	0.55
2:2:23:DG:H2'	2:2:24:DG:C8	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:534:LEU:HD13	4:A:656:TRP:CG	2.41	0.55
4:A:634:THR:HG1	4:A:642:CYS:HG	1.52	0.55
6:C:107:SER:C	6:C:109:SER:H	2.14	0.55
8:E:157:SER:C	8:E:159:ASP:N	2.55	0.55
10:G:110:VAL:HG22	10:G:161:GLY:O	2.06	0.55
13:J:48:ARG:HD2	13:J:49:MET:N	2.21	0.55
4:M:23:SER:O	4:M:24:PRO:C	2.48	0.55
4:M:464:PRO:HG2	4:M:465:TYR:HD1	1.72	0.55
4:M:1001:ARG:O	4:M:1002:GLY:O	2.24	0.55
5:N:172:ILE:HD13	5:N:178:ASN:CB	2.30	0.55
5:N:265:SER:O	5:N:266:ALA:HB3	2.06	0.55
5:N:516:ASN:ND2	5:N:516:ASN:H	2.02	0.55
5:N:789:MET:HE3	5:N:965:LYS:HB3	1.87	0.55
5:N:852:ARG:NH2	15:X:70:ARG:OXT	2.34	0.55
5:N:1166:CYS:O	5:N:1166:CYS:SG	2.64	0.55
7:P:7:THR:HB	10:S:42:PHE:HE2	1.71	0.55
7:P:51:ASN:C	7:P:52:LEU:O	2.50	0.55
9:R:130:ILE:O	9:R:148:VAL:HG21	2.05	0.55
12:U:62:ILE:O	12:U:62:ILE:HG12	2.07	0.55
4:A:105:CYS:O	4:A:114:LEU:HG	2.07	0.55
4:A:768:GLN:HG2	4:A:816:HIS:CA	2.35	0.55
4:A:852:TYR:CE2	4:A:1060:PRO:HB2	2.41	0.55
4:A:1420:ASP:O	4:A:1421:CYS:HB2	2.04	0.55
4:A:1444:MET:HG2	10:G:60:ARG:HA	1.89	0.55
5:B:34:ILE:HD13	5:B:747:MET:HE2	1.88	0.55
5:B:118:ARG:HH11	5:B:204:ILE:HD11	1.71	0.55
5:B:611:PRO:HB3	5:B:685:LEU:HD11	1.87	0.55
5:B:801:LYS:O	13:J:52:THR:HG23	2.06	0.55
5:B:980:PHE:HE1	5:B:990:ILE:HD11	1.72	0.55
10:G:7:LEU:CD1	10:G:45:ILE:HD11	2.37	0.55
11:H:4:THR:CA	11:H:60:ALA:HB2	2.31	0.55
4:M:64:ASN:O	4:M:65:LEU:C	2.49	0.55
4:M:79:GLY:HA3	4:M:243:PRO:CG	2.36	0.55
4:M:115:LEU:CB	4:M:122:MET:HE2	2.32	0.55
4:M:407:ARG:HG2	4:M:430:TRP:CH2	2.41	0.55
4:M:902:LEU:O	4:M:903:ASN:HB2	2.06	0.55
5:N:25:ILE:HD11	5:N:653:VAL:C	2.31	0.55
5:N:192:LEU:O	5:N:193:LYS:HB2	2.05	0.55
5:N:310:MET:HE1	5:N:387:LEU:CD1	2.36	0.55
5:N:465:ASN:N	5:N:465:ASN:ND2	2.55	0.55
6:O:69:LEU:HD12	6:O:69:LEU:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:474:VAL:C	4:A:477:PRO:HD2	2.31	0.55
4:A:567:LYS:CG	4:A:568:PRO:CD	2.80	0.55
4:A:632:VAL:O	4:A:633:VAL:C	2.49	0.55
4:A:868:TYR:CD2	4:A:1058:VAL:HG21	2.38	0.55
4:A:903:ASN:C	4:A:903:ASN:ND2	2.63	0.55
4:A:1283:VAL:HG12	4:A:1284:MET:N	2.22	0.55
4:A:1336:MET:CE	4:A:1381:LEU:HG	2.36	0.55
4:A:1410:PHE:HA	5:B:1212:ILE:CD1	2.37	0.55
5:B:344:LYS:O	5:B:345:LYS:CB	2.55	0.55
9:F:96:THR:O	9:F:100:GLN:HG3	2.07	0.55
11:H:142:LEU:C	11:H:143:LEU:HD12	2.32	0.55
4:M:114:LEU:HD13	4:M:171:GLN:HE22	1.70	0.55
4:M:203:SER:OG	4:M:206:GLU:HB2	2.07	0.55
4:M:774:ARG:O	4:M:775:ILE:C	2.48	0.55
4:M:1134:ILE:O	4:M:1138:ILE:HG13	2.06	0.55
5:N:114:PRO:O	5:N:116:GLU:N	2.40	0.55
5:N:223:VAL:HG11	5:N:381:MET:HG2	1.87	0.55
5:N:340:ALA:CB	5:N:343:ILE:HD12	2.33	0.55
5:N:843:GLN:N	5:N:994:TYR:O	2.29	0.55
5:N:980:PHE:HD2	5:N:1094:ARG:HA	1.71	0.55
7:P:51:ASN:O	7:P:54:GLU:HB3	2.07	0.55
13:V:13:VAL:O	13:V:14:VAL:CG2	2.55	0.55
4:A:95:PHE:O	4:A:96:ILE:C	2.49	0.55
4:A:477:PRO:HG2	4:A:521:MET:HG2	1.89	0.55
4:A:730:GLY:O	4:A:732:LEU:N	2.40	0.55
5:B:258:LEU:HB2	5:B:385:LEU:HD21	1.89	0.55
5:B:778:MET:HE2	5:B:1094:ARG:CG	2.36	0.55
6:C:114:TYR:HB3	6:C:140:ASN:O	2.07	0.55
10:G:29:LYS:O	10:G:30:LEU:C	2.50	0.55
4:M:42:ASP:C	4:M:44:THR:H	2.13	0.55
4:M:388:LEU:O	4:M:392:VAL:HG23	2.06	0.55
4:M:858:ASN:C	4:M:858:ASN:ND2	2.59	0.55
4:M:1305:VAL:HG12	4:M:1306:LEU:N	2.21	0.55
5:N:769:TYR:C	5:N:771:SER:N	2.64	0.55
10:S:48:VAL:HG13	10:S:74:TYR:HD1	1.72	0.55
13:V:44:TYR:HA	13:V:47:ARG:HB2	1.89	0.55
4:A:666:ILE:CD1	4:A:667:GLY:H	2.19	0.55
4:A:730:GLY:C	4:A:732:LEU:H	2.15	0.55
4:A:829:VAL:C	4:A:831:THR:H	2.14	0.55
4:A:901:LEU:O	4:A:921:GLY:N	2.37	0.55
5:B:1045:SER:O	5:B:1046:PRO:O	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D:48:ILE:HG21	10:G:4:ILE:HB	1.88	0.55
14:K:47:ARG:HH11	14:K:47:ARG:CB	2.15	0.55
4:M:598:LEU:O	4:M:599:SER:C	2.50	0.55
4:M:683:ILE:HD13	4:M:801:GLU:HG3	1.88	0.55
4:M:929:LEU:HD23	4:M:983:ILE:HG21	1.89	0.55
5:N:778:MET:CE	5:N:1094:ARG:CD	2.85	0.55
5:N:1142:GLY:HA3	9:R:88:TYR:HE2	1.72	0.55
6:O:73:GLN:HE21	6:O:75:MET:H	1.53	0.55
7:P:64:VAL:C	7:P:66:ARG:H	2.15	0.55
15:X:39:SER:O	15:X:40:LEU:HG	2.06	0.55
4:A:444:PHE:HB2	4:A:458:HIS:HD2	1.72	0.55
4:A:699:ALA:O	4:A:700:ASN:HB3	2.07	0.55
4:A:730:GLY:C	4:A:732:LEU:N	2.64	0.55
4:A:1341:ILE:CG2	4:A:1342:GLU:H	2.20	0.55
4:A:1402:PHE:CD1	4:A:1403:GLU:HG3	2.40	0.55
5:B:220:GLY:O	5:B:222:ILE:HG13	2.07	0.55
5:B:591:ARG:O	5:B:592:ASN:C	2.50	0.55
5:B:859:TYR:CZ	5:B:941:LEU:HD12	2.41	0.55
10:G:39:THR:HG22	10:G:40:GLY:N	2.22	0.55
14:K:47:ARG:HB3	14:K:47:ARG:NH1	2.15	0.55
14:K:69:ALA:O	14:K:70:ARG:HB3	2.05	0.55
15:L:31:CYS:SG	15:L:34:CYS:N	2.77	0.55
4:M:75:ASN:O	4:M:76:GLU:CB	2.54	0.55
4:M:535:THR:HG23	4:M:575:LYS:HE2	1.88	0.55
4:M:786:HIS:CD2	4:M:786:HIS:N	2.75	0.55
4:M:947:PHE:CD2	4:M:954:TRP:CZ2	2.95	0.55
5:N:291:ILE:HD13	5:N:300:HIS:NE2	2.22	0.55
5:N:293:PRO:HG2	5:N:296:GLU:CB	2.36	0.55
5:N:841:MET:SD	5:N:846:ILE:HD11	2.47	0.55
5:N:1115:THR:CG2	5:N:1117:GLN:HG3	2.36	0.55
5:N:1208:MET:O	5:N:1211:ASN:N	2.40	0.55
6:O:33:LEU:O	6:O:34:ARG:C	2.50	0.55
6:O:184:ASN:ND2	6:O:187:LYS:HA	2.21	0.55
9:R:89:GLU:OE2	9:R:134:ILE:HG21	2.07	0.55
12:U:85:PHE:CD2	12:U:85:PHE:N	2.66	0.55
1:1:1:DA:H2''	1:1:2:DA:O5'	2.06	0.55
4:A:524:VAL:HG12	4:A:525:GLN:N	2.17	0.55
4:A:598:LEU:O	4:A:599:SER:C	2.50	0.55
4:A:698:GLN:HA	12:I:97:MET:O	2.07	0.55
4:A:901:LEU:HD22	4:A:919:ILE:CG2	2.37	0.55
4:A:1364:ASN:HD22	4:A:1365:TYR:N	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1115:THR:HG22	5:B:1117:GLN:HG3	1.87	0.55
9:F:130:ILE:O	9:F:148:VAL:CG2	2.55	0.55
4:M:442:VAL:O	4:M:457:ALA:HA	2.07	0.55
4:M:622:VAL:O	4:M:622:VAL:HG22	2.06	0.55
4:M:849:MET:HE1	4:M:1440:ALA:HB2	1.88	0.55
4:M:1364:ASN:O	4:M:1365:TYR:C	2.50	0.55
5:N:311:LEU:O	5:N:312:GLU:C	2.48	0.55
5:N:332:ASP:OD1	5:N:336:ARG:NE	2.40	0.55
5:N:620:ARG:NH2	12:U:89:GLN:NE2	2.54	0.55
9:R:143:PHE:C	9:R:143:PHE:HD1	2.15	0.55
4:A:853:ASP:O	4:A:854:ASN:HB2	2.07	0.54
6:C:113:VAL:CG2	6:C:147:LEU:HD21	2.37	0.54
6:C:242:GLN:C	6:C:244:VAL:H	2.13	0.54
10:G:79:PHE:CZ	10:G:106:MET:HE2	2.41	0.54
4:M:58:LEU:CD2	4:M:244:PRO:HD2	2.37	0.54
4:M:524:VAL:HG12	4:M:525:GLN:HE21	1.72	0.54
4:M:898:ARG:HB2	4:M:933:TYR:CE1	2.42	0.54
4:M:1191:TRP:CD1	4:M:1256:GLU:HB2	2.41	0.54
4:M:1208:THR:HG22	4:M:1210:GLY:H	1.72	0.54
5:N:229:ALA:HB1	5:N:231:PRO:HD2	1.88	0.54
5:N:411:PRO:O	5:N:414:ALA:HB3	2.07	0.54
5:N:449:ASN:C	5:N:451:LYS:H	2.15	0.54
5:N:542:MET:HE2	5:N:743:ILE:HG13	1.88	0.54
5:N:731:VAL:HG12	5:N:732:SER:N	2.21	0.54
5:N:843:GLN:O	5:N:846:ILE:HB	2.07	0.54
5:N:1006:ILE:HG22	13:V:45:CYS:HB3	1.87	0.54
6:O:145:CYS:HA	13:V:2:ILE:HD11	1.89	0.54
8:Q:175:LEU:HD23	8:Q:176:PRO:HD2	1.90	0.54
13:V:44:TYR:N	13:V:44:TYR:CD2	2.76	0.54
2:2:27:DA:C2	3:3:2:C:N4	2.74	0.54
2:5:24:DG:H2''	2:5:25:DT:C5'	2.36	0.54
4:A:34:LYS:HE3	4:A:57:ARG:NH1	2.21	0.54
4:A:90:VAL:HG13	4:A:297:GLN:HA	1.88	0.54
4:A:332:LYS:HG3	4:A:333:GLU:HG2	1.89	0.54
4:A:442:VAL:O	4:A:457:ALA:HA	2.07	0.54
4:A:535:THR:CG2	4:A:616:VAL:HA	2.34	0.54
4:A:774:ARG:O	4:A:775:ILE:C	2.48	0.54
4:A:828:ALA:HB1	5:B:530:GLY:HA2	1.86	0.54
5:B:309:GLN:HG3	12:I:52:ILE:HD11	1.89	0.54
5:B:593:PRO:HG2	5:B:617:ARG:NH2	2.22	0.54
9:F:85:MET:HE2	9:F:93:ILE:CD1	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:I:99:LEU:O	12:I:111:THR:HG23	2.07	0.54
4:M:1120:LEU:O	4:M:1323:ASP:HB2	2.07	0.54
4:M:1402:PHE:CD1	4:M:1403:GLU:HG3	2.41	0.54
5:N:29:ASP:HB3	5:N:658:ILE:CD1	2.37	0.54
5:N:185:THR:H	5:N:188:ASP:CB	2.21	0.54
6:O:76:ASP:O	6:O:79:GLN:HG2	2.08	0.54
6:O:242:GLN:C	6:O:244:VAL:N	2.65	0.54
7:P:56:ARG:HD3	7:P:149:THR:HA	1.90	0.54
15:X:32:ALA:CB	15:X:55:ILE:HD12	2.35	0.54
4:A:896:ARG:NH2	4:A:1030:ARG:HH21	2.05	0.54
4:A:1144:LYS:HB2	4:A:1268:LEU:O	2.07	0.54
4:A:1175:SER:O	4:A:1176:LEU:HB2	2.06	0.54
4:A:1332:PHE:CE1	4:A:1348:LEU:HD13	2.42	0.54
4:A:1437:GLY:HA3	9:F:88:TYR:CD2	2.43	0.54
5:B:429:PHE:HA	5:B:432:MET:CE	2.38	0.54
5:B:466:TRP:O	5:B:468:GLU:N	2.40	0.54
6:C:242:GLN:C	6:C:244:VAL:N	2.65	0.54
10:G:106:MET:CG	10:G:107:LYS:N	2.70	0.54
11:H:40:LEU:HD22	11:H:123:MET:HE3	1.89	0.54
4:M:1120:LEU:N	4:M:1120:LEU:CD1	2.71	0.54
4:M:1211:GLN:O	4:M:1212:VAL:C	2.51	0.54
4:M:1348:LEU:O	4:M:1352:VAL:HG23	2.07	0.54
5:N:785:TYR:CD1	5:N:786:ASN:N	2.75	0.54
5:N:948:ILE:HG22	5:N:949:VAL:O	2.07	0.54
6:O:27:LEU:O	6:O:28:ALA:C	2.51	0.54
7:P:50:LEU:HD13	7:P:55:ALA:HA	1.89	0.54
8:Q:90:VAL:HA	8:Q:120:ALA:HB2	1.89	0.54
10:S:1:MET:O	10:S:3:PHE:CE1	2.60	0.54
12:U:25:LEU:HB3	12:U:38:ALA:HB2	1.88	0.54
4:A:42:ASP:HB3	4:A:45:GLN:N	2.22	0.54
4:A:58:LEU:HD21	4:A:243:PRO:CB	2.36	0.54
4:A:244:PRO:O	4:A:246:VAL:N	2.41	0.54
4:A:464:PRO:HG2	4:A:465:TYR:HD1	1.72	0.54
4:A:532:ARG:O	4:A:535:THR:HB	2.06	0.54
4:A:541:ILE:CD1	4:A:549:MET:HE1	2.19	0.54
4:A:682:THR:HG23	4:A:728:LYS:HE3	1.89	0.54
4:A:853:ASP:OD1	4:A:855:THR:CB	2.54	0.54
4:A:1115:SER:O	4:A:1116:LEU:HB3	2.07	0.54
4:A:1420:ASP:CB	4:A:1422:ARG:HG3	2.29	0.54
5:B:1068:GLY:O	5:B:1069:PHE:O	2.25	0.54
7:D:33:PHE:CE2	10:G:80:LYS:NZ	2.68	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:E:124:VAL:HA	8:E:132:ILE:HD12	1.88	0.54
13:J:1:MET:H1	13:J:56:LEU:HB2	1.73	0.54
14:K:101:LEU:O	14:K:101:LEU:HD23	2.08	0.54
4:M:353:ILE:HB	4:M:470:LEU:CD2	2.37	0.54
4:M:828:ALA:HB1	5:N:530:GLY:HA2	1.86	0.54
4:M:845:LEU:O	4:M:846:GLU:C	2.51	0.54
4:M:855:THR:HG23	4:M:857:ARG:CG	2.35	0.54
4:M:1424:VAL:CG1	4:M:1436:ILE:HD11	2.28	0.54
5:N:44:VAL:O	5:N:45:SER:C	2.50	0.54
5:N:408:LEU:HG	5:N:409:ALA:H	1.72	0.54
5:N:980:PHE:HE2	5:N:1094:ARG:CG	2.20	0.54
5:N:1085:ILE:HG22	5:N:1086:PHE:N	2.21	0.54
5:N:1099:VAL:O	5:N:1101:ASP:N	2.40	0.54
14:W:21:ILE:HG23	14:W:31:VAL:HG11	1.90	0.54
4:A:32:VAL:HG23	4:A:32:VAL:O	2.06	0.54
4:A:42:ASP:HB3	4:A:45:GLN:HA	1.90	0.54
4:A:590:ARG:HH11	4:A:590:ARG:CG	2.20	0.54
4:A:783:THR:HG22	4:A:784:LEU:HG	1.90	0.54
4:A:857:ARG:HG2	4:A:863:VAL:HA	1.89	0.54
4:A:1376:THR:O	4:A:1377:THR:C	2.51	0.54
5:B:221:ASN:N	5:B:241:ARG:O	2.30	0.54
5:B:657:HIS:CE1	5:B:689:LEU:HD11	2.42	0.54
5:B:1099:VAL:HG12	5:B:1100:ASP:H	1.72	0.54
5:B:1106:ARG:HG3	5:B:1107:ALA:N	2.22	0.54
6:C:18:VAL:O	6:C:20:PHE:HD2	1.90	0.54
7:D:7:THR:HB	10:G:42:PHE:HE2	1.71	0.54
10:G:3:PHE:CE1	10:G:80:LYS:HE2	2.42	0.54
10:G:143:ILE:CG2	10:G:144:ARG:N	2.71	0.54
4:M:1063:MET:HG3	4:M:1436:ILE:HG23	1.87	0.54
4:M:1095:THR:O	4:M:1096:SER:CB	2.56	0.54
4:M:1115:SER:HB3	4:M:1330:ASN:HD21	1.73	0.54
5:N:792:MET:HG3	5:N:855:PHE:HE1	1.72	0.54
5:N:801:LYS:O	13:V:52:THR:CG2	2.55	0.54
7:P:63:LEU:HD13	7:P:133:THR:OG1	2.06	0.54
8:Q:157:SER:C	8:Q:159:ASP:N	2.54	0.54
14:W:31:VAL:CG1	14:W:32:VAL:N	2.70	0.54
14:W:55:LYS:HB3	14:W:81:TYR:CD1	2.42	0.54
2:2:26:DC:H2''	2:2:27:DA:H5'	1.87	0.54
4:A:82:GLY:O	4:A:241:VAL:N	2.34	0.54
4:A:510:GLN:OE1	4:A:510:GLN:HA	2.07	0.54
4:A:683:ILE:HG21	4:A:801:GLU:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:996:ASN:C	4:A:998:LEU:HD12	2.32	0.54
4:A:1259:MET:C	4:A:1261:LYS:H	2.16	0.54
4:A:1277:GLU:C	4:A:1279:ILE:H	2.15	0.54
5:B:122:LEU:O	5:B:206:ASN:HA	2.08	0.54
5:B:428:ILE:O	5:B:432:MET:HE2	2.06	0.54
5:B:1072:MET:HE1	5:B:1085:ILE:HB	1.88	0.54
5:B:1183:LYS:N	5:B:1183:LYS:CE	2.71	0.54
4:M:444:PHE:CB	4:M:458:HIS:HD2	2.20	0.54
4:M:567:LYS:CB	11:T:96:VAL:H	2.12	0.54
5:N:778:MET:HE3	5:N:1094:ARG:HD3	1.88	0.54
6:O:256:ALA:O	6:O:259:LEU:N	2.41	0.54
8:Q:105:PHE:O	8:Q:106:GLN:HB2	2.07	0.54
9:R:76:LYS:O	9:R:79:ARG:HD3	2.08	0.54
9:R:99:LEU:O	9:R:103:MET:HG2	2.07	0.54
4:A:412:ARG:NH2	5:B:1108:ARG:NH1	2.55	0.54
4:A:463:ILE:HD12	4:A:469:ARG:HD2	1.89	0.54
4:A:552:TRP:HE3	4:A:651:LYS:HB3	1.72	0.54
4:A:883:LEU:CD2	4:A:1021:LEU:HB2	2.38	0.54
4:A:1341:ILE:O	4:A:1344:GLY:N	2.41	0.54
4:A:1369:ALA:O	4:A:1372:VAL:HG12	2.08	0.54
5:B:376:PHE:CE2	5:B:569:TYR:HD2	2.26	0.54
5:B:552:MET:HA	5:B:555:ILE:HB	1.90	0.54
5:B:705:MET:H	5:B:710:LEU:CD1	2.21	0.54
8:E:177:ARG:HD3	8:E:215:MET:CG	2.38	0.54
10:G:26:LEU:O	10:G:27:LYS:C	2.51	0.54
4:M:547:LEU:HB3	14:W:58:PHE:CE1	2.42	0.54
4:M:816:HIS:CD2	5:N:764:SER:HB2	2.43	0.54
4:M:1369:ALA:O	4:M:1372:VAL:HG12	2.08	0.54
5:N:798:TYR:CE2	6:O:62:PHE:CE2	2.95	0.54
6:O:209:TYR:HD1	6:O:209:TYR:H	1.54	0.54
9:R:103:MET:CE	10:S:66:GLY:H	2.20	0.54
11:T:62:SER:C	11:T:64:ASN:H	2.15	0.54
13:V:44:TYR:HD2	13:V:44:TYR:N	2.06	0.54
14:W:111:LEU:O	14:W:112:GLN:HG2	2.07	0.54
4:A:350:ARG:HB2	4:A:488:ASN:OD1	2.07	0.54
4:A:527:THR:CG2	4:A:650:GLN:HA	2.37	0.54
4:A:873:MET:C	4:A:1058:VAL:HG23	2.32	0.54
5:B:525:ALA:O	5:B:768:THR:HG23	2.08	0.54
5:B:616:ILE:HG13	5:B:697:GLU:HA	1.90	0.54
5:B:990:ILE:HG22	5:B:991:GLY:N	2.23	0.54
6:C:27:LEU:HD13	6:C:228:PHE:HE2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:31:ASN:O	6:C:32:SER:C	2.48	0.54
11:H:23:VAL:HG22	11:H:43:ASN:HA	1.90	0.54
14:K:31:VAL:CG1	14:K:32:VAL:N	2.70	0.54
4:M:265:LYS:NZ	4:M:322:VAL:HG22	2.22	0.54
4:M:343:LYS:NZ	5:N:1151:LEU:O	2.38	0.54
4:M:353:ILE:HG13	4:M:482:PHE:HD2	1.72	0.54
4:M:849:MET:HE3	4:M:1061:GLY:HA2	1.89	0.54
4:M:1095:THR:O	4:M:1096:SER:HB2	2.07	0.54
4:M:1118:VAL:HG23	4:M:1306:LEU:HB2	1.90	0.54
4:M:1283:VAL:HG12	4:M:1284:MET:N	2.23	0.54
5:N:309:GLN:HG3	12:U:52:ILE:HD11	1.88	0.54
5:N:777:ALA:HA	5:N:1095:LEU:HA	1.89	0.54
6:O:113:VAL:CG2	6:O:147:LEU:HD21	2.38	0.54
6:O:242:GLN:C	6:O:244:VAL:H	2.13	0.54
7:P:18:VAL:O	7:P:18:VAL:HG13	2.06	0.54
10:S:145:VAL:CG1	10:S:146:LYS:N	2.70	0.54
11:T:116:TYR:HE2	11:T:140:ALA:CB	2.21	0.54
14:W:55:LYS:HB2	14:W:81:TYR:HE1	1.72	0.54
4:A:300:VAL:O	4:A:300:VAL:HG12	2.08	0.54
4:A:853:ASP:OD1	4:A:853:ASP:C	2.51	0.54
4:A:947:PHE:CD2	4:A:954:TRP:CZ2	2.96	0.54
5:B:705:MET:N	5:B:710:LEU:HD12	2.23	0.54
5:B:847:ASP:C	5:B:849:GLY:N	2.66	0.54
5:B:979:LYS:HG2	5:B:1095:LEU:HD13	1.88	0.54
5:B:1017:ILE:HG22	5:B:1018:PRO:N	2.22	0.54
5:B:1099:VAL:C	5:B:1101:ASP:H	2.16	0.54
9:F:135:ARG:HD3	9:F:143:PHE:CD2	2.42	0.54
10:G:88:ASP:OD2	10:G:88:ASP:N	2.41	0.54
11:H:61:SER:HB2	11:H:139:ASN:HB3	1.90	0.54
4:M:325:ILE:HG22	5:N:1210:MET:HE2	1.89	0.54
4:M:715:GLU:OE2	4:M:774:ARG:NH1	2.41	0.54
4:M:829:VAL:C	4:M:831:THR:H	2.16	0.54
4:M:1341:ILE:HG23	4:M:1342:GLU:H	1.71	0.54
4:M:1386:ARG:HB3	4:M:1403:GLU:OE1	2.08	0.54
5:N:176:SER:O	5:N:182:SER:HB3	2.08	0.54
5:N:1085:ILE:N	5:N:1085:ILE:CD1	2.69	0.54
10:S:47:CYS:O	10:S:76:ALA:HB1	2.07	0.54
12:U:50:THR:CG2	12:U:52:ILE:HG12	2.38	0.54
14:W:67:PHE:C	14:W:68:PHE:HD2	2.16	0.54
4:A:230:ARG:N	4:A:233:TRP:CE3	2.65	0.54
4:A:407:ARG:HB3	4:A:430:TRP:CE2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:958:VAL:O	4:A:958:VAL:HG12	2.08	0.54
5:B:910:VAL:HG12	5:B:912:ILE:H	1.73	0.54
6:C:39:ALA:HA	6:C:164:ALA:CB	2.36	0.54
6:C:45:ALA:HA	6:C:72:LEU:CD1	2.38	0.54
6:C:177:GLU:HG3	6:C:231:ASN:HD22	1.72	0.54
6:C:212:PRO:CB	6:C:213:PRO:HD2	2.38	0.54
7:D:213:GLU:O	7:D:217:LEU:HG	2.07	0.54
9:F:75:PRO:HG2	9:F:78:GLN:HB2	1.90	0.54
4:M:282:ASN:O	4:M:284:ALA:N	2.41	0.54
4:M:481:ASP:OD1	4:M:483:ASP:OD2	2.25	0.54
4:M:504:LEU:HD11	9:R:91:ALA:CB	2.37	0.54
5:N:237:VAL:HG12	5:N:238:ALA:N	2.22	0.54
5:N:370:PHE:HD2	5:N:373:ARG:HD2	1.73	0.54
5:N:591:ARG:O	5:N:592:ASN:C	2.51	0.54
10:S:73:LYS:HE2	10:S:74:TYR:O	2.08	0.54
10:S:74:TYR:H	10:S:74:TYR:HD2	1.56	0.54
13:V:36:LEU:O	13:V:39:LEU:N	2.41	0.54
4:A:299:HIS:C	4:A:301:ALA:H	2.16	0.53
4:A:600:PRO:HG2	4:A:601:LYS:H	1.73	0.53
4:A:1213:GLY:O	4:A:1214:GLU:C	2.50	0.53
5:B:102:VAL:O	5:B:109:THR:HA	2.08	0.53
5:B:311:LEU:O	5:B:312:GLU:C	2.50	0.53
5:B:973:ILE:HG23	5:B:974:PRO:HD2	1.90	0.53
5:B:996:ARG:NH1	6:C:38:ILE:HG23	2.22	0.53
9:F:99:LEU:C	9:F:99:LEU:HD12	2.33	0.53
11:H:116:TYR:HB2	11:H:123:MET:HB3	1.90	0.53
4:M:877:HIS:O	4:M:878:ILE:HG12	2.08	0.53
5:N:284:ILE:HG12	5:N:324:ILE:HD12	1.89	0.53
5:N:343:ILE:HB	5:N:348:ARG:HG3	1.89	0.53
6:O:66:ARG:NH1	13:V:2:ILE:CG2	2.61	0.53
7:P:4:SER:OG	7:P:5:THR:N	2.31	0.53
8:Q:55:ARG:HD2	8:Q:83:CYS:O	2.09	0.53
14:W:65:HIS:HD2	14:W:67:PHE:N	1.95	0.53
4:A:44:THR:O	4:A:45:GLN:HB2	2.09	0.53
4:A:64:ASN:O	4:A:65:LEU:C	2.50	0.53
4:A:90:VAL:HG13	4:A:297:GLN:OE1	2.08	0.53
4:A:154:SER:HB3	4:A:162:VAL:HG21	1.89	0.53
4:A:789:LYS:HE3	12:I:67:THR:OG1	2.09	0.53
4:A:929:LEU:HD21	4:A:983:ILE:HD13	1.89	0.53
4:A:1397:LEU:HB2	4:A:1426:GLU:OE1	2.08	0.53
5:B:642:ASP:HB3	5:B:649:LYS:HD2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:852:ARG:NH2	15:L:70:ARG:OXT	2.29	0.53
5:B:882:THR:O	5:B:883:LEU:HB2	2.08	0.53
6:C:35:ARG:HH11	14:K:41:THR:N	2.06	0.53
7:D:173:HIS:O	7:D:177:VAL:HG23	2.08	0.53
9:F:118:LEU:O	9:F:122:MET:HG3	2.07	0.53
14:K:67:PHE:C	14:K:68:PHE:HD2	2.16	0.53
4:M:18:GLN:CB	5:N:1215:ARG:HB2	2.35	0.53
4:M:23:SER:HB3	4:M:233:TRP:CE2	2.43	0.53
4:M:326:ARG:NH2	4:M:1407:GLU:HG3	2.22	0.53
4:M:427:GLN:HG3	4:M:430:TRP:CE2	2.43	0.53
4:M:605:MET:HE2	4:M:607:ILE:CG1	2.39	0.53
4:M:886:ILE:HG13	4:M:943:LEU:HD12	1.90	0.53
5:N:582:VAL:HA	5:N:626:ILE:O	2.08	0.53
6:O:254:LYS:O	6:O:258:ILE:HD13	2.09	0.53
9:R:140:ASP:C	9:R:140:ASP:OD1	2.50	0.53
13:V:23:ASN:C	13:V:25:LEU:N	2.67	0.53
4:A:35:ILE:HA	4:A:52:GLY:O	2.09	0.53
4:A:182:VAL:HG22	4:A:201:VAL:HA	1.89	0.53
4:A:841:LEU:O	4:A:845:LEU:HG	2.08	0.53
4:A:915:SER:O	4:A:919:ILE:HG13	2.08	0.53
4:A:1064:VAL:O	4:A:1067:LEU:HB3	2.07	0.53
4:A:1120:LEU:O	4:A:1323:ASP:HB2	2.08	0.53
4:A:1313:LEU:HD23	4:A:1338:VAL:CG2	2.38	0.53
5:B:365:THR:HG23	5:B:367:LEU:N	2.19	0.53
5:B:882:THR:HG21	5:B:935:ARG:HA	1.90	0.53
5:B:1002:THR:HG21	5:B:1006:ILE:CD1	2.37	0.53
7:D:34:GLN:O	7:D:47:LEU:HD23	2.08	0.53
8:E:22:MET:HE3	8:E:26:ARG:NE	2.23	0.53
10:G:7:LEU:HB2	10:G:74:TYR:HE2	1.69	0.53
12:I:61:ASP:C	12:I:63:GLY:H	2.16	0.53
4:M:699:ALA:O	4:M:700:ASN:HB3	2.08	0.53
4:M:761:MET:HA	4:M:804:TYR:HB2	1.90	0.53
4:M:1341:ILE:CG2	4:M:1342:GLU:H	2.21	0.53
5:N:258:LEU:HG	5:N:258:LEU:O	2.08	0.53
5:N:344:LYS:O	5:N:345:LYS:CB	2.55	0.53
5:N:785:TYR:CD1	5:N:785:TYR:C	2.86	0.53
5:N:879:ARG:HH11	5:N:883:LEU:CD2	2.18	0.53
6:O:174:ALA:HB2	6:O:235:VAL:CG2	2.38	0.53
9:R:81:THR:HB	9:R:136:ARG:NH1	2.23	0.53
10:S:26:LEU:O	10:S:27:LYS:C	2.52	0.53
10:S:122:ASN:ND2	10:S:125:SER:HB3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:541:ILE:HG22	4:A:546:VAL:HG23	1.89	0.53
4:A:947:PHE:CD2	4:A:954:TRP:CE2	2.97	0.53
5:B:65:GLU:CG	5:B:66:ASP:H	2.12	0.53
5:B:337:ARG:C	5:B:338:GLY:N	2.66	0.53
5:B:864:LYS:N	5:B:872:GLU:OE1	2.40	0.53
5:B:1065:GLN:NE2	5:B:1067:ARG:H	2.00	0.53
5:B:1084:GLN:H	5:B:1084:GLN:HE21	1.56	0.53
6:C:208:GLU:O	6:C:210:GLU:N	2.41	0.53
6:C:235:VAL:HG13	13:J:13:VAL:CG2	2.38	0.53
7:D:5:THR:O	7:D:5:THR:HG23	2.08	0.53
7:D:64:VAL:C	7:D:66:ARG:H	2.15	0.53
8:E:105:PHE:O	8:E:106:GLN:HB2	2.08	0.53
12:I:82:GLU:HB3	12:I:104:LEU:HD12	1.89	0.53
4:M:310:GLY:O	4:M:312:PRO:HD2	2.08	0.53
4:M:528:LEU:O	4:M:528:LEU:HD12	2.08	0.53
4:M:534:LEU:HD13	4:M:656:TRP:CG	2.43	0.53
4:M:1213:GLY:O	4:M:1214:GLU:C	2.50	0.53
5:N:199:MET:N	5:N:199:MET:SD	2.82	0.53
5:N:562:GLY:HA3	5:N:590:HIS:CE1	2.43	0.53
5:N:1033:LYS:NZ	5:N:1070:GLU:OE1	2.42	0.53
6:O:124:LEU:O	6:O:127:ARG:HG2	2.09	0.53
6:O:212:PRO:CB	6:O:213:PRO:HD2	2.38	0.53
7:P:54:GLU:O	7:P:58:VAL:HG23	2.09	0.53
11:T:138:GLU:O	11:T:139:ASN:C	2.52	0.53
4:A:282:ASN:O	4:A:284:ALA:N	2.41	0.53
4:A:608:ILE:HB	4:A:613:ILE:HD11	1.89	0.53
4:A:899:VAL:HB	4:A:929:LEU:HD12	1.89	0.53
4:A:1261:LYS:O	4:A:1264:GLU:HB3	2.08	0.53
5:B:204:ILE:C	5:B:205:ILE:HD12	2.33	0.53
5:B:789:MET:HE3	5:B:965:LYS:HB3	1.90	0.53
6:C:124:LEU:O	6:C:127:ARG:HG2	2.08	0.53
4:M:1280:GLU:O	4:M:1281:ARG:O	2.26	0.53
5:N:122:LEU:O	5:N:206:ASN:HA	2.08	0.53
5:N:310:MET:O	5:N:313:MET:HB2	2.08	0.53
5:N:343:ILE:HG23	5:N:347:LYS:CB	2.11	0.53
5:N:459:TYR:C	5:N:459:TYR:CD2	2.87	0.53
5:N:1039:GLY:HA2	13:V:51:LEU:CD2	2.39	0.53
10:S:7:LEU:HD11	10:S:45:ILE:HD11	1.91	0.53
11:T:61:SER:O	11:T:62:SER:CB	2.56	0.53
14:W:60:ALA:O	14:W:73:LEU:HD12	2.09	0.53
4:A:317:LYS:O	4:A:318:SER:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:326:ARG:HG2	4:A:327:ALA:N	2.22	0.53
4:A:844:ALA:HB2	4:A:1389:PHE:CE2	2.44	0.53
4:A:1164:PRO:HG2	4:A:1165:GLU:H	1.74	0.53
4:A:1332:PHE:O	4:A:1333:ILE:C	2.51	0.53
5:B:44:VAL:O	5:B:45:SER:C	2.51	0.53
8:E:94:LYS:HE2	8:E:98:ILE:CD1	2.33	0.53
11:H:58:THR:HG22	11:H:59:ILE:H	1.73	0.53
4:M:563:PRO:HG3	4:M:572:TRP:CE2	2.44	0.53
4:M:982:THR:H	4:M:985:ASP:HB2	1.73	0.53
4:M:1316:VAL:O	4:M:1316:VAL:HG12	2.09	0.53
5:N:37:PHE:HE2	5:N:542:MET:HA	1.74	0.53
5:N:287:ARG:NH1	5:N:324:ILE:O	2.41	0.53
5:N:696:GLU:O	5:N:699:GLU:HB2	2.08	0.53
7:P:220:LEU:O	7:P:221:TYR:HD1	1.91	0.53
8:Q:131:THR:HG21	8:Q:191:LYS:NZ	2.24	0.53
8:Q:157:SER:HG	8:Q:160:GLU:HG3	1.73	0.53
11:T:113:ALA:HB2	11:T:126:GLU:HG3	1.91	0.53
4:A:24:PRO:HD2	4:A:233:TRP:CD1	2.43	0.53
4:A:34:LYS:HB3	4:A:36:ARG:HE	1.73	0.53
4:A:498:ARG:O	4:A:501:LEU:N	2.38	0.53
4:A:590:ARG:HH21	4:A:620:LYS:CB	2.18	0.53
4:A:866:PHE:O	4:A:867:ILE:HD12	2.09	0.53
4:A:1350:LYS:O	4:A:1354:ASN:ND2	2.40	0.53
5:B:806:THR:CG2	5:B:808:ALA:HB3	2.39	0.53
6:C:172:PRO:O	6:C:235:VAL:HG23	2.07	0.53
8:E:78:LEU:HD23	8:E:79:TRP:N	2.23	0.53
4:M:853:ASP:OD1	4:M:855:THR:N	2.41	0.53
4:M:1410:PHE:HA	5:N:1212:ILE:HD11	1.89	0.53
5:N:769:TYR:O	5:N:772:ALA:N	2.42	0.53
9:R:103:MET:HE1	10:S:65:ASP:HB2	1.91	0.53
12:U:71:SER:OG	12:U:83:ASN:HB2	2.07	0.53
4:A:11:LEU:HB2	5:B:1193:GLN:OE1	2.09	0.53
4:A:34:LYS:HZ2	4:A:57:ARG:NH2	2.06	0.53
4:A:119:ASN:O	4:A:122:MET:HB3	2.09	0.53
4:A:341:MET:CE	4:A:843:LYS:HZ3	2.22	0.53
4:A:1057:VAL:HG12	4:A:1058:VAL:N	2.24	0.53
4:A:1095:THR:O	4:A:1096:SER:CB	2.57	0.53
5:B:223:VAL:HG11	5:B:381:MET:HG2	1.91	0.53
5:B:653:VAL:CG2	5:B:689:LEU:HB3	2.39	0.53
6:C:69:LEU:HB3	13:J:6:ARG:HD3	1.91	0.53
6:C:215:GLU:O	6:C:216:GLY:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D:118:THR:HB	7:D:121:LYS:HB2	1.91	0.53
7:D:198:LEU:O	7:D:200:ASN:N	2.42	0.53
13:J:28:ASP:O	13:J:29:GLU:C	2.51	0.53
4:M:284:ALA:O	4:M:286:HIS:N	2.36	0.53
4:M:590:ARG:O	4:M:591:PHE:HB2	2.07	0.53
4:M:1227:ILE:HG22	4:M:1228:TRP:H	1.74	0.53
5:N:95:ILE:CG1	5:N:130:VAL:HG22	2.39	0.53
5:N:167:ILE:HG22	5:N:453:ILE:HD12	1.90	0.53
5:N:283:VAL:O	5:N:286:PHE:N	2.42	0.53
5:N:365:THR:HG23	5:N:367:LEU:N	2.20	0.53
5:N:687:GLU:O	5:N:689:LEU:HG	2.09	0.53
5:N:842:ASN:HB3	5:N:845:SER:OG	2.09	0.53
5:N:882:THR:O	5:N:883:LEU:HB2	2.08	0.53
6:O:66:ARG:NH1	6:O:144:ILE:O	2.42	0.53
6:O:98:VAL:HG23	6:O:122:SER:HB3	1.91	0.53
6:O:183:TRP:O	6:O:185:LYS:N	2.41	0.53
7:P:173:HIS:O	7:P:177:VAL:HG23	2.09	0.53
10:S:7:LEU:CD1	10:S:45:ILE:HD11	2.39	0.53
10:S:99:PHE:CD1	10:S:99:PHE:C	2.86	0.53
12:U:15:TYR:N	12:U:15:TYR:CD1	2.77	0.53
13:V:13:VAL:C	13:V:14:VAL:HG23	2.32	0.53
14:W:68:PHE:CD2	14:W:68:PHE:N	2.76	0.53
4:A:41:MET:HB3	4:A:48:ALA:O	2.07	0.53
5:B:769:TYR:O	5:B:772:ALA:N	2.42	0.53
5:B:797:TYR:HE1	5:B:854:LEU:CD2	2.22	0.53
5:B:1006:ILE:HG22	13:J:45:CYS:HB3	1.91	0.53
6:C:101:LEU:HD13	6:C:118:LEU:CD2	2.34	0.53
6:C:254:LYS:C	6:C:256:ALA:H	2.16	0.53
11:H:58:THR:HB	11:H:143:LEU:HD13	1.91	0.53
11:H:116:TYR:HE2	11:H:140:ALA:CB	2.22	0.53
4:M:53:LEU:CD2	4:M:54:ASN:HD22	2.22	0.53
4:M:55:ASP:C	4:M:57:ARG:N	2.67	0.53
5:N:305:VAL:O	5:N:305:VAL:HG12	2.09	0.53
5:N:642:ASP:HB3	5:N:649:LYS:HD2	1.89	0.53
5:N:654:ARG:O	5:N:656:GLY:N	2.41	0.53
5:N:750:GLY:O	5:N:751:VAL:C	2.51	0.53
7:P:7:THR:HB	10:S:42:PHE:CZ	2.44	0.53
10:S:143:ILE:CG2	10:S:144:ARG:N	2.72	0.53
4:A:224:PHE:HZ	4:A:234:MET:HE2	1.75	0.53
4:A:244:PRO:CB	4:A:245:PRO:HD3	2.39	0.53
4:A:458:HIS:NE2	4:A:478:TYR:OH	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:466:SER:HB2	5:B:1099:VAL:HG11	1.91	0.53
4:A:622:VAL:O	4:A:622:VAL:HG22	2.09	0.53
4:A:718:VAL:O	4:A:721:PHE:HB2	2.09	0.53
4:A:816:HIS:CD2	5:B:764:SER:H	2.27	0.53
4:A:1118:VAL:CG2	4:A:1306:LEU:HB2	2.38	0.53
5:B:46:GLN:HG3	5:B:47:GLN:N	2.15	0.53
5:B:308:TRP:HA	5:B:311:LEU:HD12	1.90	0.53
5:B:1069:PHE:HA	5:B:1085:ILE:O	2.08	0.53
6:C:254:LYS:C	6:C:256:ALA:N	2.64	0.53
7:D:24:ALA:C	7:D:26:THR:H	2.16	0.53
10:G:145:VAL:HG12	10:G:146:LYS:N	2.23	0.53
13:J:48:ARG:HE	13:J:49:MET:CE	2.22	0.53
4:M:278:THR:HG22	4:M:278:THR:O	2.09	0.53
5:N:343:ILE:HG22	5:N:345:LYS:H	1.74	0.53
7:P:5:THR:HG23	7:P:5:THR:O	2.09	0.53
8:Q:168:TYR:CB	8:Q:170:LEU:HG	2.39	0.53
10:S:56:ILE:O	10:S:57:GLN:HB2	2.08	0.53
10:S:59:GLY:CA	10:S:70:PHE:CD2	2.92	0.53
11:T:139:ASN:O	11:T:140:ALA:HB2	2.09	0.53
4:A:302:THR:HA	4:A:305:ASP:O	2.09	0.52
4:A:399:HIS:O	4:A:400:PRO:C	2.52	0.52
4:A:566:ILE:O	4:A:567:LYS:O	2.27	0.52
4:A:1209:MET:SD	4:A:1236:LEU:HD22	2.49	0.52
4:A:1377:THR:O	4:A:1379:GLY:N	2.41	0.52
5:B:370:PHE:HE2	5:B:373:ARG:HH11	1.57	0.52
5:B:1106:ARG:HD3	5:B:1126:GLY:O	2.10	0.52
6:C:215:GLU:O	6:C:217:ASP:N	2.42	0.52
8:E:84:ASP:O	8:E:86:PRO:HD3	2.09	0.52
9:F:85:MET:CE	9:F:93:ILE:HD12	2.39	0.52
13:J:57:ILE:HA	13:J:60:PHE:CD2	2.43	0.52
14:K:19:LEU:HD22	14:K:33:ILE:CG2	2.39	0.52
4:M:105:CYS:O	4:M:114:LEU:HG	2.09	0.52
4:M:382:PRO:HD3	4:M:428:TYR:CE2	2.44	0.52
4:M:567:LYS:CG	4:M:568:PRO:CD	2.81	0.52
4:M:666:ILE:CD1	4:M:667:GLY:H	2.22	0.52
4:M:839:ARG:O	4:M:840:ARG:C	2.51	0.52
4:M:877:HIS:C	4:M:878:ILE:CG1	2.82	0.52
4:M:1025:ARG:O	4:M:1026:LEU:HD23	2.09	0.52
4:M:1164:PRO:HG2	4:M:1165:GLU:H	1.74	0.52
5:N:274:PRO:O	5:N:275:TYR:HB2	2.08	0.52
5:N:360:PHE:C	5:N:360:PHE:CD2	2.86	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:746:SER:HB2	5:N:1046:PRO:HG2	1.91	0.52
5:N:841:MET:HE1	5:N:980:PHE:CE1	2.44	0.52
5:N:1183:LYS:N	5:N:1183:LYS:CE	2.72	0.52
9:R:90:ARG:HD3	9:R:155:LEU:CD1	2.38	0.52
10:S:23:LYS:HG3	10:S:56:ILE:HD12	1.91	0.52
4:A:60:SER:C	4:A:61:ILE:HG13	2.34	0.52
5:B:496:ARG:HB3	5:B:496:ARG:HH11	1.74	0.52
5:B:744:HIS:HD2	5:B:746:SER:OG	1.92	0.52
9:F:140:ASP:C	9:F:140:ASP:OD1	2.51	0.52
10:G:9:LEU:HD12	10:G:10:ASN:N	2.23	0.52
11:H:91:ASP:O	11:H:93:TYR:N	2.42	0.52
5:N:343:ILE:HB	5:N:348:ARG:HE	1.74	0.52
5:N:579:ARG:CB	5:N:586:TRP:HE1	2.22	0.52
5:N:970:THR:HG22	5:N:971:THR:N	2.24	0.52
5:N:971:THR:HG1	6:O:61:GLU:HG3	1.74	0.52
5:N:1022:THR:HG23	5:N:1022:THR:O	2.09	0.52
6:O:123:ASN:ND2	6:O:125:MET:HG2	2.24	0.52
8:Q:168:TYR:HB2	8:Q:170:LEU:HG	1.92	0.52
13:V:13:VAL:O	13:V:14:VAL:HG23	2.09	0.52
14:W:19:LEU:HD22	14:W:33:ILE:CG2	2.39	0.52
4:A:335:ARG:NH1	5:B:1202:LEU:HD13	2.25	0.52
4:A:474:VAL:HG22	4:A:474:VAL:O	2.09	0.52
4:A:783:THR:HG21	4:A:815:PHE:CE2	2.43	0.52
4:A:1134:ILE:O	4:A:1138:ILE:HG13	2.08	0.52
5:B:589:VAL:CG1	5:B:590:HIS:H	2.04	0.52
5:B:997:GLU:CD	5:B:997:GLU:H	2.15	0.52
5:B:1183:LYS:N	5:B:1183:LYS:HE3	2.24	0.52
6:C:34:ARG:O	6:C:38:ILE:HG13	2.10	0.52
7:D:145:MET:O	7:D:149:THR:HB	2.09	0.52
9:F:103:MET:HE2	10:G:66:GLY:H	1.75	0.52
12:I:32:CYS:SG	12:I:33:SER:N	2.82	0.52
4:M:265:LYS:HZ3	4:M:322:VAL:HG13	1.73	0.52
4:M:477:PRO:HG2	4:M:521:MET:HG2	1.92	0.52
4:M:1057:VAL:HG12	4:M:1058:VAL:N	2.24	0.52
4:M:1343:ALA:HB2	8:Q:150:VAL:HG22	1.90	0.52
5:N:205:ILE:HD12	5:N:205:ILE:N	2.25	0.52
5:N:705:MET:H	5:N:710:LEU:CD1	2.23	0.52
5:N:830:TYR:O	5:N:831:SER:C	2.52	0.52
5:N:936:ASP:OD1	5:N:938:SER:N	2.38	0.52
5:N:1039:GLY:HA2	13:V:51:LEU:HD22	1.91	0.52
11:T:64:ASN:O	11:T:65:LEU:HB2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:55:THR:CG2	12:U:58:VAL:HG21	2.39	0.52
4:A:971:PHE:CE2	4:A:1040:GLN:HG2	2.43	0.52
5:B:29:ASP:HB3	5:B:658:ILE:CD1	2.39	0.52
5:B:293:PRO:HG2	5:B:296:GLU:CB	2.39	0.52
6:C:146:LYS:C	6:C:147:LEU:HD23	2.34	0.52
4:M:420:ARG:O	4:M:421:ALA:C	2.53	0.52
4:M:595:THR:O	4:M:596:THR:HG23	2.08	0.52
4:M:639:PRO:HG2	4:M:640:GLN:H	1.73	0.52
5:N:1183:LYS:N	5:N:1183:LYS:HE3	2.24	0.52
7:P:17:LYS:HE3	7:P:17:LYS:HA	1.90	0.52
12:U:34:TYR:CD2	12:U:34:TYR:C	2.87	0.52
14:W:12:LEU:HD12	14:W:12:LEU:N	2.20	0.52
4:A:152:VAL:HG13	4:A:153:PRO:HD2	1.91	0.52
4:A:382:PRO:CB	4:A:428:TYR:HE2	2.19	0.52
4:A:1114:PRO:O	4:A:1115:SER:O	2.27	0.52
4:A:1398:MET:HB2	4:A:1426:GLU:OE2	2.10	0.52
5:B:25:ILE:HD11	5:B:653:VAL:C	2.34	0.52
5:B:1039:GLY:HA2	13:J:51:LEU:HD22	1.92	0.52
5:B:1155:SER:OG	5:B:1156:ASP:N	2.43	0.52
5:B:1162:ILE:HG22	5:B:1163:CYS:N	2.23	0.52
5:B:1166:CYS:O	5:B:1168:LEU:N	2.43	0.52
6:C:29:MET:HE2	14:K:98:LEU:CD2	2.39	0.52
7:D:17:LYS:CA	7:D:17:LYS:HE3	2.39	0.52
10:G:114:LEU:HD13	10:S:151:ILE:HD13	1.90	0.52
11:H:98:TYR:C	11:H:118:PHE:HD2	2.18	0.52
12:I:15:TYR:N	12:I:15:TYR:CD1	2.78	0.52
12:I:86:PHE:HE1	12:I:100:PHE:HB2	1.74	0.52
4:M:12:ARG:O	5:N:1194:ILE:HG22	2.10	0.52
4:M:93:VAL:HG21	4:M:301:ALA:O	2.09	0.52
4:M:130:ASP:O	4:M:131:SER:C	2.51	0.52
4:M:853:ASP:O	4:M:854:ASN:HB2	2.09	0.52
5:N:955:THR:CG2	5:N:956:THR:H	2.22	0.52
5:N:1065:GLN:NE2	5:N:1066:SER:H	2.07	0.52
10:S:18:PHE:HA	10:S:22:MET:CE	2.39	0.52
13:V:8:PHE:H	13:V:49:MET:HE3	1.75	0.52
4:A:42:ASP:HB3	4:A:45:GLN:CA	2.40	0.52
4:A:168:GLY:O	4:A:169:ASN:C	2.51	0.52
4:A:243:PRO:O	4:A:244:PRO:C	2.52	0.52
4:A:1265:ASN:C	4:A:1267:MET:N	2.65	0.52
4:A:1280:GLU:O	4:A:1281:ARG:O	2.28	0.52
6:C:22:LEU:HD13	6:C:230:MET:HE3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G:56:ILE:O	10:G:57:GLN:HB2	2.09	0.52
11:H:61:SER:O	11:H:62:SER:CB	2.58	0.52
13:J:53:HIS:CD2	13:J:54:VAL:N	2.78	0.52
4:M:600:PRO:HG2	4:M:601:LYS:H	1.74	0.52
4:M:608:ILE:C	4:M:610:GLY:H	2.17	0.52
4:M:1076:ALA:HA	4:M:1079:MET:CE	2.39	0.52
4:M:1114:PRO:O	4:M:1115:SER:O	2.27	0.52
5:N:364:ILE:HG22	5:N:365:THR:N	2.23	0.52
5:N:510:LYS:HG3	5:N:511:PRO:HD3	1.88	0.52
5:N:1010:LEU:HD23	5:N:1092:TYR:CD1	2.45	0.52
6:O:36:VAL:HG11	6:O:251:LEU:HB2	1.91	0.52
6:O:214:ASN:HB3	6:O:217:ASP:OD2	2.09	0.52
6:O:241:ASP:O	6:O:245:VAL:HG23	2.07	0.52
13:V:7:CYS:SG	13:V:8:PHE:N	2.83	0.52
4:A:130:ASP:O	4:A:133:LYS:N	2.38	0.52
4:A:335:ARG:HA	4:A:339:ASN:HD22	1.73	0.52
4:A:382:PRO:HB3	4:A:428:TYR:CE2	2.34	0.52
4:A:608:ILE:C	4:A:610:GLY:N	2.66	0.52
4:A:639:PRO:HG2	4:A:640:GLN:N	2.25	0.52
4:A:798:GLY:HA2	4:A:815:PHE:HD1	1.74	0.52
4:A:1062:GLU:OE2	9:F:88:TYR:OH	2.28	0.52
4:A:1191:TRP:CD1	4:A:1256:GLU:HB2	2.44	0.52
5:B:365:THR:HG23	5:B:367:LEU:HG	1.91	0.52
5:B:466:TRP:HA	5:B:466:TRP:CE3	2.44	0.52
5:B:1022:THR:HG23	5:B:1022:THR:O	2.09	0.52
4:M:535:THR:CG2	4:M:616:VAL:HA	2.33	0.52
4:M:590:ARG:HH11	4:M:590:ARG:CG	2.22	0.52
4:M:964:ILE:O	4:M:967:ALA:N	2.42	0.52
4:M:996:ASN:HB3	4:M:1050:GLU:OE2	2.09	0.52
5:N:19:GLU:O	5:N:20:ASP:C	2.53	0.52
5:N:434:ARG:HA	5:N:437:GLU:CD	2.35	0.52
5:N:705:MET:N	5:N:710:LEU:HD12	2.25	0.52
5:N:1050:ILE:HG22	5:N:1051:THR:N	2.24	0.52
10:S:1:MET:SD	10:S:79:PHE:CE1	3.03	0.52
10:S:27:LYS:HE2	10:S:54:ILE:HB	1.90	0.52
14:W:21:ILE:HG23	14:W:31:VAL:CG1	2.40	0.52
4:A:965:GLN:O	4:A:968:GLN:HB2	2.10	0.52
4:A:997:LEU:HD13	4:A:1018:PHE:HE2	1.75	0.52
4:A:1333:ILE:O	4:A:1337:GLU:HG3	2.10	0.52
5:B:114:PRO:O	5:B:116:GLU:N	2.43	0.52
5:B:383:ASN:O	5:B:384:ARG:C	2.51	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:183:TRP:CZ2	6:C:207:CYS:HB3	2.45	0.52
7:D:51:ASN:O	7:D:54:GLU:HB3	2.10	0.52
9:F:100:GLN:O	9:F:103:MET:HB2	2.09	0.52
12:I:82:GLU:O	12:I:104:LEU:HG	2.09	0.52
4:M:317:LYS:O	4:M:318:SER:CB	2.57	0.52
4:M:547:LEU:HB3	14:W:58:PHE:HE1	1.74	0.52
4:M:586:ILE:CD1	4:M:633:VAL:HG22	2.39	0.52
4:M:666:ILE:HD11	5:N:1086:PHE:HE1	1.75	0.52
4:M:672:ASP:HB2	4:M:736:ASN:OD1	2.10	0.52
5:N:291:ILE:HD13	5:N:300:HIS:CD2	2.45	0.52
5:N:521:LEU:HB3	5:N:633:VAL:HG11	1.91	0.52
6:O:235:VAL:HG13	13:V:13:VAL:CG2	2.39	0.52
7:P:56:ARG:NH2	7:P:57:LEU:HD21	2.24	0.52
8:Q:163:GLU:O	8:Q:164:LEU:C	2.53	0.52
10:S:44:TYR:O	10:S:78:VAL:HG12	2.09	0.52
12:U:82:GLU:O	12:U:104:LEU:HG	2.09	0.52
13:V:56:LEU:O	13:V:57:ILE:C	2.53	0.52
4:A:1418:LEU:HD12	4:A:1419:ASP:N	2.24	0.52
5:B:26:THR:O	5:B:29:ASP:HB2	2.10	0.52
5:B:305:VAL:O	5:B:305:VAL:HG12	2.10	0.52
5:B:952:VAL:HG22	5:B:966:VAL:HG13	1.92	0.52
6:C:129:ILE:HG23	6:C:130:GLY:N	2.25	0.52
9:F:69:LEU:N	9:F:70:LYS:CA	2.73	0.52
9:F:116:ASP:C	9:F:116:ASP:OD1	2.53	0.52
14:K:53:ASP:OD1	14:K:55:LYS:HB2	2.10	0.52
4:M:58:LEU:HD21	4:M:243:PRO:CB	2.38	0.52
4:M:152:VAL:HG12	4:M:153:PRO:HD2	1.92	0.52
4:M:219:PHE:O	4:M:222:LEU:O	2.28	0.52
5:N:118:ARG:HH11	5:N:204:ILE:HD11	1.75	0.52
5:N:806:THR:C	5:N:808:ALA:N	2.66	0.52
5:N:979:LYS:HG2	5:N:1095:LEU:CD1	2.39	0.52
6:O:82:TYR:O	6:O:83:SER:C	2.51	0.52
6:O:167:HIS:HD2	6:O:168:ALA:N	2.08	0.52
11:T:4:THR:O	11:T:5:LEU:HD23	2.09	0.52
11:T:95:TYR:CE2	11:T:97:MET:CG	2.92	0.52
13:V:28:ASP:O	13:V:30:LEU:HG	2.10	0.52
2:2:24:DG:H2''	2:2:25:DT:C5'	2.39	0.52
4:A:224:PHE:CD2	4:A:231:PRO:HG3	2.44	0.52
4:A:236:LEU:HD11	4:A:304:MET:HE1	1.90	0.52
4:A:391:LEU:O	4:A:394:ASN:HB2	2.09	0.52
4:A:432:VAL:O	4:A:433:GLU:C	2.51	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:494:SER:O	4:A:497:THR:N	2.41	0.52
4:A:577:ILE:O	4:A:578:LEU:C	2.53	0.52
4:A:1076:ALA:HA	4:A:1079:MET:CE	2.38	0.52
5:B:39:ARG:HH21	5:B:665:GLU:HG2	1.73	0.52
5:B:911:ILE:HD11	5:B:941:LEU:CD1	2.38	0.52
6:C:46:ILE:HD12	6:C:67:LEU:O	2.10	0.52
8:E:124:VAL:HB	8:E:125:PRO:HD3	1.92	0.52
10:G:15:PRO:O	10:G:16:SER:C	2.53	0.52
14:K:63:VAL:HG23	14:K:63:VAL:O	2.10	0.52
4:M:444:PHE:HB2	4:M:458:HIS:HD2	1.74	0.52
4:M:816:HIS:CD2	5:N:764:SER:H	2.28	0.52
4:M:1011:GLN:NE2	4:M:1015:VAL:HG21	2.25	0.52
5:N:125:SER:HA	5:N:171:PRO:HA	1.92	0.52
5:N:278:GLN:HE22	5:N:337:ARG:HH21	1.56	0.52
5:N:603:LEU:HB3	5:N:609:ILE:HG13	1.92	0.52
5:N:806:THR:HG22	5:N:808:ALA:CB	2.40	0.52
6:O:34:ARG:HA	6:O:37:MET:HE3	1.91	0.52
4:A:658:LEU:HD13	5:B:831:SER:N	2.25	0.51
4:A:683:ILE:HD13	4:A:801:GLU:HG3	1.91	0.51
4:A:1147:THR:HA	4:A:1197:LEU:HD23	1.90	0.51
5:B:212:LEU:HD23	5:B:480:SER:HB2	1.92	0.51
5:B:799:PRO:CB	5:B:818:PRO:HG2	2.39	0.51
6:C:56:THR:HG21	6:C:145:CYS:SG	2.49	0.51
7:D:40:HIS:HB3	10:G:73:LYS:HZ1	1.70	0.51
7:D:122:GLU:HA	7:D:125:SER:OG	2.11	0.51
7:D:137:ASN:C	7:D:137:ASN:HD22	2.18	0.51
7:D:194:LEU:C	7:D:195:ILE:HG13	2.33	0.51
4:M:71:GLN:C	4:M:73:GLY:N	2.68	0.51
4:M:88:LYS:HE3	4:M:280:GLU:OE2	2.09	0.51
4:M:510:GLN:HA	4:M:510:GLN:OE1	2.09	0.51
4:M:974:ASP:C	4:M:976:THR:H	2.19	0.51
5:N:129:PHE:HA	5:N:165:VAL:O	2.10	0.51
5:N:386:LEU:O	5:N:388:CYS:N	2.43	0.51
5:N:467:GLY:N	5:N:475:SER:CB	2.69	0.51
5:N:486:TYR:CE1	5:N:1096:ARG:HD3	2.44	0.51
5:N:496:ARG:HB3	5:N:496:ARG:NH1	2.25	0.51
5:N:758:PHE:HB3	5:N:761:HIS:HD2	1.74	0.51
5:N:1162:ILE:HG22	5:N:1163:CYS:N	2.24	0.51
6:O:58:LEU:HD21	13:V:57:ILE:HD12	1.91	0.51
8:Q:161:LYS:C	8:Q:163:GLU:N	2.66	0.51
12:U:86:PHE:HE1	12:U:100:PHE:HB2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:481:ASP:OD1	4:A:483:ASP:CG	2.54	0.51
4:A:765:VAL:HG23	4:A:802:ASN:O	2.11	0.51
4:A:779:PHE:O	4:A:780:VAL:C	2.54	0.51
4:A:1096:SER:O	4:A:1100:ARG:HB3	2.11	0.51
5:B:167:ILE:HG22	5:B:453:ILE:HD12	1.91	0.51
5:B:729:ILE:O	5:B:729:ILE:HG22	2.09	0.51
5:B:1224:PHE:CE2	8:E:171:LYS:HG3	2.31	0.51
6:C:183:TRP:O	6:C:185:LYS:N	2.43	0.51
7:D:35:LEU:HD13	7:D:173:HIS:ND1	2.25	0.51
7:D:47:LEU:CD1	7:D:48:ILE:N	2.71	0.51
8:E:112:TYR:CZ	8:E:136:ASN:HB2	2.45	0.51
8:E:163:GLU:O	8:E:164:LEU:C	2.53	0.51
13:J:14:VAL:CG1	13:J:50:ILE:HD11	2.41	0.51
4:M:152:VAL:HG13	4:M:153:PRO:HD2	1.92	0.51
4:M:339:ASN:O	4:M:343:LYS:HG2	2.10	0.51
4:M:356:ASP:HB2	4:M:469:ARG:HH12	1.75	0.51
4:M:446:ARG:HB2	4:M:487:MET:SD	2.50	0.51
4:M:947:PHE:HD2	4:M:954:TRP:CZ2	2.28	0.51
4:M:1198:ASP:O	4:M:1202:MET:HG2	2.10	0.51
6:O:98:VAL:O	6:O:99:LEU:HD23	2.10	0.51
6:O:147:LEU:HD12	6:O:151:GLN:O	2.10	0.51
9:R:109:VAL:HG12	9:R:110:ASP:N	2.25	0.51
10:S:51:TYR:CD2	10:S:51:TYR:O	2.63	0.51
12:U:111:THR:CG2	12:U:112:SER:H	2.21	0.51
4:A:325:ILE:HG21	5:B:1210:MET:CG	2.39	0.51
4:A:355:GLY:N	4:A:482:PHE:CZ	2.79	0.51
4:A:427:GLN:HB2	4:A:430:TRP:CD1	2.45	0.51
4:A:446:ARG:CD	4:A:480:ALA:HB2	2.40	0.51
4:A:709:THR:HG22	4:A:710:LEU:N	2.26	0.51
4:A:1039:LYS:HE3	4:A:1043:ASP:OD2	2.10	0.51
4:A:1094:VAL:CG1	4:A:1095:THR:N	2.57	0.51
5:B:230:ALA:N	5:B:231:PRO:CD	2.73	0.51
5:B:654:ARG:O	5:B:656:GLY:N	2.43	0.51
5:B:911:ILE:O	5:B:912:ILE:HG13	2.10	0.51
5:B:1219:ASP:OD1	5:B:1219:ASP:O	2.28	0.51
6:C:66:ARG:HH21	13:J:5:VAL:HG23	1.72	0.51
6:C:263:THR:O	6:C:265:MET:N	2.43	0.51
14:K:18:LYS:HZ3	14:K:38:GLU:HG2	1.75	0.51
4:M:130:ASP:O	4:M:133:LYS:N	2.38	0.51
4:M:474:VAL:C	4:M:477:PRO:HD2	2.35	0.51
4:M:527:THR:CG2	4:M:650:GLN:HA	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1291:VAL:HG13	4:M:1292:PRO:CD	2.39	0.51
5:N:112:LEU:HD12	5:N:113:TYR:N	2.19	0.51
5:N:916:THR:O	5:N:935:ARG:HG3	2.09	0.51
5:N:1189:ILE:HG22	5:N:1190:ASP:N	2.25	0.51
7:P:19:GLU:O	7:P:21:GLU:N	2.44	0.51
10:S:17:PHE:C	10:S:19:GLY:H	2.18	0.51
14:W:42:LEU:CD2	14:W:46:ILE:HD11	2.40	0.51
4:A:1348:LEU:O	4:A:1352:VAL:HG23	2.11	0.51
4:A:1410:PHE:HA	5:B:1212:ILE:HD11	1.91	0.51
5:B:995:ARG:NH1	6:C:165:LYS:HG2	2.25	0.51
6:C:112:ASN:HD22	6:C:112:ASN:N	2.08	0.51
7:D:54:GLU:O	7:D:58:VAL:HG23	2.11	0.51
8:E:145:THR:HG21	8:E:187:TYR:CE2	2.45	0.51
10:G:138:THR:HG22	10:G:139:ILE:HG13	1.91	0.51
11:H:55:LEU:HD22	11:H:144:ILE:CG2	2.41	0.51
13:J:16:ASP:OD1	13:J:17:LYS:CD	2.56	0.51
4:M:381:THR:HG21	4:M:383:TYR:CD1	2.46	0.51
4:M:1279:ILE:CD1	4:M:1316:VAL:HG21	2.40	0.51
5:N:310:MET:CE	5:N:387:LEU:HD12	2.41	0.51
5:N:810:GLU:CB	5:N:815:ARG:HH22	2.21	0.51
5:N:977:GLY:HA3	5:N:1099:VAL:HG21	1.92	0.51
6:O:107:SER:C	6:O:109:SER:H	2.18	0.51
7:P:118:THR:HB	7:P:121:LYS:HB2	1.93	0.51
10:S:149:GLY:O	10:S:159:ALA:HB1	2.11	0.51
4:A:549:MET:SD	4:A:577:ILE:CD1	2.98	0.51
4:A:567:LYS:HB3	11:H:95:TYR:CA	2.36	0.51
4:A:709:THR:HB	4:A:712:GLU:HG3	1.93	0.51
4:A:1149:ALA:HB2	12:I:47:GLU:HA	1.92	0.51
4:A:1313:LEU:O	4:A:1315:GLU:N	2.43	0.51
4:A:1333:ILE:HG22	4:A:1334:ASP:N	2.25	0.51
4:A:1364:ASN:O	4:A:1365:TYR:C	2.54	0.51
4:A:1430:LEU:HB2	4:A:1432:GLN:HG3	1.92	0.51
8:E:134:THR:C	8:E:135:PHE:HD1	2.18	0.51
4:M:767:GLN:HA	4:M:799:PHE:HA	1.92	0.51
4:M:1162:VAL:O	4:M:1162:VAL:HG12	2.10	0.51
5:N:63:ILE:HA	5:N:421:PHE:CE2	2.45	0.51
5:N:179:CYS:SG	5:N:181:LEU:HG	2.51	0.51
5:N:327:ARG:O	5:N:331:LEU:HD13	2.10	0.51
5:N:1162:ILE:O	5:N:1171:VAL:HG21	2.09	0.51
5:N:1182:CYS:O	5:N:1183:LYS:C	2.53	0.51
8:Q:84:ASP:O	8:Q:86:PRO:HD3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:115:MET:HB3	10:S:116:PRO:HD2	1.92	0.51
4:A:12:ARG:NE	5:B:1192:TYR:HE2	2.08	0.51
4:A:284:ALA:O	4:A:286:HIS:N	2.38	0.51
4:A:408:ASP:C	4:A:410:GLY:H	2.18	0.51
4:A:1277:GLU:O	4:A:1279:ILE:N	2.39	0.51
5:B:343:ILE:CB	5:B:348:ARG:HG3	2.40	0.51
5:B:999:MET:HA	5:B:999:MET:CE	2.39	0.51
6:C:66:ARG:HH12	13:J:2:ILE:HG21	1.71	0.51
7:D:156:ASP:C	7:D:158:GLU:H	2.17	0.51
12:I:115:LYS:CD	12:I:117:LYS:HE3	2.35	0.51
14:K:42:LEU:O	14:K:46:ILE:HG13	2.11	0.51
4:M:42:ASP:HB3	4:M:45:GLN:N	2.26	0.51
4:M:61:ILE:O	4:M:63:ARG:N	2.43	0.51
4:M:91:PHE:HB2	4:M:297:GLN:HE22	1.74	0.51
4:M:107:CYS:H	4:M:114:LEU:HD21	1.76	0.51
4:M:266:LEU:O	4:M:267:ALA:C	2.53	0.51
4:M:682:THR:HG23	4:M:728:LYS:HE3	1.93	0.51
4:M:844:ALA:HB2	4:M:1389:PHE:CE2	2.45	0.51
5:N:583:ASN:OD1	5:N:628:THR:N	2.40	0.51
5:N:826:ALA:HB2	5:N:1008:PRO:HB3	1.93	0.51
6:O:35:ARG:HH12	14:W:41:THR:H	1.59	0.51
8:Q:13:TRP:O	8:Q:16:PHE:HB3	2.10	0.51
8:Q:78:LEU:HD23	8:Q:79:TRP:N	2.25	0.51
11:T:23:VAL:HG22	11:T:43:ASN:HA	1.93	0.51
12:U:112:SER:O	12:U:114:GLN:HG3	2.11	0.51
14:W:53:ASP:OD1	14:W:55:LYS:HB2	2.11	0.51
15:X:30:ILE:HG22	15:X:31:CYS:N	2.26	0.51
4:A:344:ARG:HB3	5:B:1118:PRO:HB2	1.93	0.51
4:A:353:ILE:HG13	4:A:482:PHE:HD2	1.76	0.51
4:A:577:ILE:O	4:A:580:VAL:N	2.41	0.51
4:A:709:THR:HG21	12:I:93:LYS:O	2.11	0.51
4:A:997:LEU:HD13	4:A:1018:PHE:CE2	2.45	0.51
4:A:1120:LEU:CD1	4:A:1120:LEU:H	2.24	0.51
5:B:310:MET:HE1	5:B:387:LEU:HD12	1.91	0.51
5:B:797:TYR:HE1	5:B:854:LEU:HD23	1.75	0.51
5:B:1095:LEU:H	5:B:1095:LEU:CD1	2.14	0.51
6:C:256:ALA:C	6:C:258:ILE:N	2.69	0.51
9:F:111:LEU:H	9:F:111:LEU:CD1	2.19	0.51
12:I:101:PHE:HB2	12:I:110:PHE:CE2	2.46	0.51
4:M:403:LYS:O	4:M:404:TYR:CD2	2.64	0.51
4:M:632:VAL:O	4:M:633:VAL:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:871:ASP:OD2	4:M:873:MET:HB2	2.11	0.51
4:M:921:GLY:O	4:M:922:ASP:C	2.54	0.51
4:M:1005:GLU:O	4:M:1009:ASN:HB2	2.11	0.51
4:M:1017:LEU:HB3	8:Q:205:SER:HA	1.92	0.51
5:N:235:SER:HA	5:N:261:ARG:NH1	2.25	0.51
5:N:729:ILE:O	5:N:729:ILE:HG22	2.10	0.51
5:N:1219:ASP:OD1	5:N:1219:ASP:O	2.28	0.51
7:P:33:PHE:CE1	10:S:80:LYS:HE3	2.46	0.51
8:Q:161:LYS:C	8:Q:163:GLU:H	2.18	0.51
9:R:101:ILE:HD11	9:R:124:GLU:OE1	2.10	0.51
10:S:99:PHE:CE2	10:S:115:MET:HE2	2.46	0.51
12:U:61:ASP:C	12:U:63:GLY:N	2.67	0.51
4:A:92:HIS:HD2	4:A:304:MET:CE	2.23	0.51
4:A:152:VAL:HG12	4:A:153:PRO:HD2	1.93	0.51
5:B:38:PHE:CD1	5:B:811:TYR:CD2	2.95	0.51
5:B:280:ILE:CD1	5:B:334:ILE:HG12	2.41	0.51
5:B:1159:ARG:HD2	5:B:1159:ARG:C	2.35	0.51
14:K:35:PHE:CD1	14:K:71:PHE:CE1	2.99	0.51
15:L:58:LYS:O	15:L:59:ALA:O	2.29	0.51
4:M:42:ASP:HB3	4:M:45:GLN:HA	1.93	0.51
4:M:366:VAL:HG21	4:M:460:VAL:HG22	1.92	0.51
4:M:841:LEU:O	4:M:845:LEU:HG	2.10	0.51
4:M:883:LEU:CD2	4:M:1021:LEU:HB2	2.40	0.51
4:M:963:ILE:HD13	4:M:1049:ILE:HG13	1.92	0.51
4:M:993:LEU:HD22	4:M:1046:LEU:HD22	1.93	0.51
5:N:221:ASN:N	5:N:241:ARG:O	2.33	0.51
11:T:116:TYR:HB2	11:T:123:MET:HB3	1.93	0.51
4:A:49:LYS:HZ3	4:A:61:ILE:HG13	1.76	0.51
4:A:420:ARG:O	4:A:421:ALA:C	2.54	0.51
4:A:1029:ARG:HH11	4:A:1029:ARG:HG3	1.74	0.51
5:B:129:PHE:HE2	5:B:166:PHE:HD1	1.59	0.51
5:B:189:LEU:O	5:B:190:TYR:C	2.54	0.51
6:C:76:ASP:OD2	6:C:128:ASN:N	2.44	0.51
10:G:49:LEU:HG	10:G:76:ALA:HA	1.92	0.51
11:H:139:ASN:O	11:H:140:ALA:HB2	2.11	0.51
4:M:300:VAL:O	4:M:300:VAL:HG12	2.10	0.51
4:M:1102:LYS:O	4:M:1106:ASN:ND2	2.44	0.51
4:M:1115:SER:O	4:M:1116:LEU:HB3	2.11	0.51
5:N:38:PHE:CD1	5:N:811:TYR:CD2	2.99	0.51
5:N:758:PHE:CE1	5:N:1027:ILE:CG2	2.94	0.51
5:N:957:ASN:O	5:N:958:GLN:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P:47:LEU:CD1	7:P:48:ILE:N	2.72	0.51
4:A:211:PHE:HA	4:A:214:ILE:HG13	1.93	0.51
4:A:218:ASP:O	4:A:219:PHE:C	2.54	0.51
4:A:446:ARG:HD2	4:A:480:ALA:HB2	1.93	0.51
4:A:787:PHE:CE1	4:A:796:SER:HA	2.46	0.51
5:B:227:LYS:HB2	5:B:395:GLN:OE1	2.11	0.51
5:B:737:THR:CG2	12:I:66:PRO:HA	2.40	0.51
5:B:879:ARG:HH11	5:B:883:LEU:CD2	2.21	0.51
6:C:232:VAL:HG21	6:C:244:VAL:CG2	2.38	0.51
10:G:51:TYR:CD2	10:G:51:TYR:O	2.64	0.51
4:M:577:ILE:C	4:M:579:SER:N	2.67	0.51
4:M:1153:TYR:CE1	12:U:42:LEU:HD13	2.46	0.51
5:N:388:CYS:C	5:N:390:LEU:H	2.19	0.51
5:N:1109:GLY:O	5:N:1110:PRO:C	2.54	0.51
7:P:173:HIS:CD2	7:P:175:PHE:H	2.29	0.51
8:Q:156:LEU:HD12	8:Q:195:VAL:HB	1.92	0.51
8:Q:212:ARG:HG3	8:Q:212:ARG:HH11	1.76	0.51
4:A:806:ARG:HH12	5:B:729:ILE:CD1	2.24	0.50
4:A:823:GLY:O	4:A:824:LEU:C	2.53	0.50
4:A:966:ASN:O	4:A:967:ALA:C	2.52	0.50
4:A:1226:VAL:HG22	4:A:1240:CYS:HB3	1.93	0.50
4:A:1425:SER:O	4:A:1426:GLU:C	2.54	0.50
5:B:269:ILE:HG21	5:B:282:ILE:HD13	1.92	0.50
5:B:401:PHE:HA	5:B:404:LYS:HG3	1.93	0.50
5:B:825:VAL:HG12	5:B:826:ALA:N	2.27	0.50
5:B:841:MET:SD	5:B:846:ILE:HD11	2.51	0.50
5:B:1172:ILE:O	5:B:1172:ILE:CG2	2.59	0.50
8:E:192:ARG:HG3	8:E:192:ARG:NH1	2.23	0.50
10:G:3:PHE:CG	10:G:80:LYS:NZ	2.69	0.50
13:J:43:ARG:O	13:J:47:ARG:HB2	2.10	0.50
14:K:21:ILE:HG23	14:K:31:VAL:CG1	2.41	0.50
14:K:55:LYS:HB2	14:K:81:TYR:HE1	1.76	0.50
4:M:82:GLY:O	4:M:241:VAL:N	2.37	0.50
4:M:172:PRO:HG3	4:M:185:TRP:CZ2	2.46	0.50
4:M:341:MET:CE	4:M:843:LYS:NZ	2.74	0.50
4:M:846:GLU:OE1	4:M:1425:SER:OG	2.29	0.50
4:M:903:ASN:C	4:M:903:ASN:ND2	2.64	0.50
4:M:1323:ASP:C	4:M:1325:THR:H	2.18	0.50
5:N:126:SER:O	5:N:169:ARG:HA	2.11	0.50
5:N:1084:GLN:HE21	5:N:1084:GLN:N	2.05	0.50
5:N:1132:GLU:O	5:N:1135:ARG:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:114:TYR:HB3	6:O:140:ASN:O	2.11	0.50
7:P:52:LEU:C	7:P:54:GLU:N	2.68	0.50
9:R:130:ILE:O	9:R:148:VAL:CG2	2.59	0.50
10:S:117:GLN:C	10:S:119:LEU:N	2.65	0.50
10:S:132:SER:OG	10:S:133:SER:N	2.39	0.50
13:V:34:THR:O	13:V:35:ALA:C	2.54	0.50
4:A:23:SER:O	4:A:24:PRO:C	2.53	0.50
4:A:266:LEU:O	4:A:267:ALA:C	2.54	0.50
4:A:356:ASP:C	4:A:358:ASN:H	2.18	0.50
4:A:567:LYS:HE3	11:H:46:LEU:HD12	1.92	0.50
4:A:817:ALA:O	4:A:818:MET:C	2.53	0.50
5:B:283:VAL:O	5:B:286:PHE:N	2.45	0.50
5:B:343:ILE:CG2	5:B:348:ARG:N	2.73	0.50
5:B:386:LEU:O	5:B:388:CYS:N	2.44	0.50
5:B:579:ARG:HG2	5:B:579:ARG:NH1	2.25	0.50
5:B:911:ILE:O	5:B:911:ILE:HG22	2.11	0.50
7:D:128:VAL:O	7:D:132:GLN:HG3	2.11	0.50
14:K:55:LYS:HB3	14:K:81:TYR:CD1	2.46	0.50
4:M:252:PHE:HB2	4:M:256:GLN:CD	2.36	0.50
4:M:658:LEU:HD13	5:N:831:SER:N	2.25	0.50
4:M:860:LEU:HD11	4:M:1393:ASN:HB2	1.93	0.50
5:N:502:ILE:HD12	5:N:502:ILE:N	2.05	0.50
5:N:549:THR:HG22	5:N:550:ASP:N	2.18	0.50
5:N:603:LEU:HD12	5:N:609:ILE:HG13	1.91	0.50
11:T:47:PHE:CD2	11:T:95:TYR:HD1	2.29	0.50
11:T:142:LEU:C	11:T:143:LEU:HD12	2.36	0.50
12:U:14:LEU:HA	12:U:28:GLU:O	2.12	0.50
13:V:48:ARG:HD2	13:V:49:MET:N	2.26	0.50
4:A:38:PRO:HA	4:A:270:LEU:HD23	1.92	0.50
4:A:42:ASP:C	4:A:44:THR:N	2.67	0.50
4:A:269:ILE:CD1	4:A:300:VAL:HA	2.41	0.50
4:A:369:SER:HB2	14:K:2:ASN:OD1	2.11	0.50
4:A:1072:ILE:O	4:A:1075:PRO:HD2	2.10	0.50
4:A:1097:GLY:O	4:A:1100:ARG:N	2.44	0.50
4:A:1401:SER:O	4:A:1402:PHE:HB2	2.11	0.50
5:B:199:MET:N	5:B:199:MET:SD	2.85	0.50
5:B:327:ARG:O	5:B:331:LEU:HD13	2.11	0.50
5:B:370:PHE:HD2	5:B:373:ARG:HD2	1.75	0.50
7:D:52:LEU:CD2	7:D:147:TYR:HE2	2.24	0.50
8:E:23:VAL:HG13	8:E:78:LEU:HD13	1.93	0.50
12:I:7:CYS:SG	12:I:8:ARG:O	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:262:LEU:O	4:M:264:PHE:N	2.44	0.50
4:M:464:PRO:O	4:M:465:TYR:O	2.30	0.50
4:M:567:LYS:HE3	11:T:46:LEU:HD12	1.92	0.50
4:M:981:LEU:HD21	4:M:1038:THR:C	2.37	0.50
4:M:1101:LEU:HB2	4:M:1355:VAL:HG11	1.94	0.50
5:N:130:VAL:HB	5:N:167:ILE:CD1	2.42	0.50
5:N:259:TYR:H	5:N:259:TYR:HD1	1.58	0.50
5:N:1001:PHE:CE2	6:O:34:ARG:NE	2.80	0.50
5:N:1002:THR:CG2	5:N:1006:ILE:HG13	2.41	0.50
4:A:34:LYS:CE	4:A:57:ARG:NH1	2.75	0.50
4:A:786:HIS:N	4:A:786:HIS:CD2	2.78	0.50
4:A:1066:VAL:CG1	5:B:1140:ALA:HB2	2.41	0.50
5:B:360:PHE:C	5:B:360:PHE:CD2	2.88	0.50
5:B:446:LEU:O	5:B:447:ALA:CB	2.58	0.50
5:B:467:GLY:N	5:B:475:SER:CB	2.69	0.50
5:B:1010:LEU:HD23	5:B:1092:TYR:CD1	2.47	0.50
7:D:170:THR:C	7:D:172:LEU:H	2.20	0.50
14:K:5:ASP:O	14:K:6:ARG:C	2.53	0.50
14:K:19:LEU:HD21	14:K:35:PHE:CD2	2.46	0.50
4:M:19:PHE:HB3	4:M:1413:GLY:HA2	1.93	0.50
4:M:244:PRO:HG2	4:M:245:PRO:HD3	1.93	0.50
4:M:403:LYS:O	4:M:404:TYR:CG	2.64	0.50
4:M:535:THR:HG22	4:M:536:LEU:N	2.26	0.50
5:N:820:GLY:C	5:N:1091:TYR:CE1	2.90	0.50
5:N:1099:VAL:C	5:N:1101:ASP:H	2.19	0.50
5:N:1224:PHE:CE2	8:Q:171:LYS:HG3	2.33	0.50
6:O:167:HIS:CD2	6:O:168:ALA:N	2.79	0.50
9:R:111:LEU:H	9:R:111:LEU:CD1	2.20	0.50
10:S:88:ASP:HB3	10:S:144:ARG:HA	1.94	0.50
12:U:115:LYS:CD	12:U:117:LYS:HE3	2.36	0.50
14:W:55:LYS:CB	14:W:81:TYR:CE1	2.95	0.50
4:A:577:ILE:C	4:A:579:SER:N	2.67	0.50
4:A:637:LYS:HB3	4:A:641:VAL:HG11	1.93	0.50
4:A:826:ASP:HB2	4:A:830:LYS:HD3	1.93	0.50
5:B:410:GLY:O	5:B:412:LEU:N	2.45	0.50
5:B:798:TYR:HE2	6:C:62:PHE:CE2	2.28	0.50
6:C:239:PRO:O	6:C:241:ASP:N	2.44	0.50
12:I:111:THR:CG2	12:I:112:SER:N	2.75	0.50
14:K:68:PHE:N	14:K:68:PHE:CD2	2.79	0.50
4:M:79:GLY:HA3	4:M:243:PRO:HG3	1.92	0.50
4:M:114:LEU:O	4:M:115:LEU:HG	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:722:LEU:O	4:M:725:ALA:HB3	2.12	0.50
5:N:95:ILE:HG13	5:N:130:VAL:HG22	1.93	0.50
5:N:550:ASP:OD1	5:N:551:PRO:HD2	2.12	0.50
5:N:654:ARG:C	5:N:656:GLY:N	2.68	0.50
7:P:137:ASN:C	7:P:137:ASN:HD22	2.19	0.50
9:R:124:GLU:HB3	9:R:130:ILE:HG12	1.94	0.50
10:S:1:MET:HG2	10:S:85:GLU:CD	2.36	0.50
10:S:4:ILE:O	10:S:4:ILE:HG22	2.10	0.50
10:S:96:GLN:HB3	10:S:121:PHE:CE2	2.46	0.50
14:W:63:VAL:O	14:W:63:VAL:HG23	2.10	0.50
1:4:1:DA:H2''	1:4:2:DA:O5'	2.10	0.50
4:A:53:LEU:O	4:A:54:ASN:C	2.55	0.50
4:A:62:ASP:HB3	4:A:64:ASN:ND2	2.27	0.50
4:A:116:ASP:C	4:A:118:HIS:N	2.67	0.50
4:A:351:THR:CB	5:B:1103:ILE:HD12	2.39	0.50
4:A:526:ASP:O	4:A:527:THR:C	2.55	0.50
4:A:1206:ASP:O	4:A:1274:ARG:NH1	2.45	0.50
4:A:1316:VAL:O	4:A:1316:VAL:HG12	2.12	0.50
5:B:310:MET:CE	5:B:387:LEU:HD12	2.41	0.50
5:B:1099:VAL:HG12	5:B:1100:ASP:N	2.27	0.50
6:C:82:TYR:O	6:C:83:SER:C	2.53	0.50
8:E:29:PHE:C	8:E:30:ILE:HG13	2.36	0.50
10:G:91:VAL:HG12	10:G:92:VAL:N	2.26	0.50
11:H:138:GLU:O	11:H:139:ASN:C	2.55	0.50
13:J:32:GLU:O	13:J:33:GLY:C	2.54	0.50
14:K:109:TRP:O	14:K:111:LEU:N	2.40	0.50
4:M:263:THR:O	4:M:263:THR:HG22	2.11	0.50
4:M:270:LEU:O	4:M:271:LYS:C	2.55	0.50
4:M:652:VAL:O	4:M:653:VAL:C	2.53	0.50
4:M:823:GLY:O	4:M:824:LEU:C	2.54	0.50
4:M:873:MET:C	4:M:1058:VAL:HG23	2.36	0.50
4:M:1149:ALA:HB2	12:U:47:GLU:HA	1.94	0.50
4:M:1336:MET:CE	4:M:1381:LEU:HG	2.41	0.50
4:M:1364:ASN:HD22	4:M:1364:ASN:C	2.18	0.50
5:N:1016:ALA:O	5:N:1020:ARG:HG3	2.11	0.50
6:O:179:GLU:HG2	6:O:180:TYR:H	1.73	0.50
8:Q:157:SER:O	8:Q:159:ASP:N	2.44	0.50
8:Q:178:ILE:HG22	8:Q:213:ILE:O	2.11	0.50
10:S:14:HIS:CE1	10:S:15:PRO:HD2	2.46	0.50
11:T:59:ILE:CG2	11:T:60:ALA:N	2.73	0.50
12:U:69:PRO:HB2	12:U:85:PHE:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:V:48:ARG:HE	13:V:49:MET:CE	2.25	0.50
2:5:27:DA:C2	3:6:2:C:N4	2.79	0.50
4:A:56:PRO:O	4:A:57:ARG:HG3	2.11	0.50
4:A:84:ILE:O	4:A:84:ILE:CG2	2.59	0.50
4:A:130:ASP:HB3	4:A:133:LYS:HB2	1.94	0.50
4:A:417:TYR:O	4:A:418:SER:C	2.55	0.50
4:A:829:VAL:C	4:A:831:THR:N	2.69	0.50
4:A:907:THR:CG2	4:A:908:LEU:N	2.75	0.50
5:B:343:ILE:HB	5:B:348:ARG:HE	1.77	0.50
5:B:785:TYR:CD1	5:B:785:TYR:C	2.89	0.50
4:M:47:ARG:HH12	4:M:254:GLU:CG	2.25	0.50
4:M:188:ASP:OD1	4:M:189:ARG:N	2.45	0.50
4:M:601:LYS:HB2	4:M:603:ASN:ND2	2.27	0.50
4:M:997:LEU:HD13	4:M:1018:PHE:CE2	2.46	0.50
4:M:1097:GLY:O	4:M:1100:ARG:N	2.44	0.50
4:M:1239:ARG:HB3	4:M:1239:ARG:NH1	2.27	0.50
4:M:1332:PHE:O	4:M:1333:ILE:C	2.55	0.50
4:M:1438:THR:HB	5:N:1144:ALA:CB	2.41	0.50
5:N:118:ARG:HG2	5:N:204:ILE:HD13	1.93	0.50
5:N:360:PHE:O	5:N:361:LEU:C	2.53	0.50
5:N:412:LEU:HB3	5:N:466:TRP:CZ2	2.47	0.50
5:N:526:GLU:OE2	5:N:752:ALA:HB2	2.11	0.50
5:N:563:MET:HE3	5:N:580:VAL:HB	1.94	0.50
5:N:758:PHE:CE1	5:N:1027:ILE:HG22	2.47	0.50
6:O:208:GLU:C	6:O:210:GLU:H	2.20	0.50
10:S:154:VAL:HG12	10:S:155:SER:N	2.27	0.50
13:V:28:ASP:O	13:V:29:GLU:C	2.55	0.50
15:X:31:CYS:HB3	15:X:34:CYS:C	2.37	0.50
4:A:61:ILE:HG22	4:A:62:ASP:N	2.24	0.50
4:A:195:ASP:O	4:A:196:GLU:HB3	2.12	0.50
4:A:1386:ARG:HB3	4:A:1403:GLU:OE1	2.12	0.50
5:B:185:THR:H	5:B:188:ASP:CB	2.25	0.50
5:B:309:GLN:HG3	12:I:52:ILE:CD1	2.42	0.50
5:B:309:GLN:CD	12:I:52:ILE:HD11	2.36	0.50
5:B:343:ILE:HG22	5:B:345:LYS:H	1.77	0.50
5:B:769:TYR:C	5:B:771:SER:N	2.65	0.50
5:B:874:PHE:HA	5:B:913:GLY:O	2.10	0.50
6:C:43:THR:CG2	6:C:44:LEU:N	2.66	0.50
6:C:165:LYS:O	14:K:6:ARG:NH1	2.44	0.50
11:H:40:LEU:CD1	11:H:123:MET:HB2	2.42	0.50
13:J:34:THR:O	13:J:35:ALA:C	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:K:47:ARG:HD3	14:K:59:ALA:O	2.11	0.50
14:K:61:TYR:CD2	14:K:61:TYR:O	2.64	0.50
4:M:35:ILE:CD1	4:M:241:VAL:HG21	2.41	0.50
4:M:344:ARG:C	4:M:345:VAL:CG1	2.84	0.50
4:M:441:PRO:HD2	4:M:498:ARG:NH2	2.26	0.50
4:M:446:ARG:CD	4:M:480:ALA:HB2	2.41	0.50
4:M:787:PHE:CE1	4:M:796:SER:HA	2.47	0.50
4:M:1017:LEU:HB2	8:Q:206:GLY:N	2.08	0.50
4:M:1225:PHE:CE2	4:M:1227:ILE:HD11	2.47	0.50
5:N:39:ARG:CZ	5:N:665:GLU:HG2	2.42	0.50
5:N:383:ASN:O	5:N:384:ARG:C	2.54	0.50
5:N:1106:ARG:HG3	5:N:1107:ALA:N	2.26	0.50
11:T:43:ASN:OD1	11:T:46:LEU:HG	2.11	0.50
4:A:388:LEU:HD22	4:A:432:VAL:HG21	1.92	0.50
4:A:528:LEU:O	4:A:528:LEU:HD12	2.11	0.50
4:A:567:LYS:HB2	4:A:568:PRO:HD2	1.91	0.50
4:A:1116:LEU:HB3	4:A:1308:THR:HG21	1.93	0.50
4:A:1377:THR:O	4:A:1378:GLN:C	2.55	0.50
5:B:337:ARG:C	5:B:338:GLY:CA	2.85	0.50
5:B:483:LEU:HD11	5:B:491:THR:CG2	2.34	0.50
5:B:1162:ILE:O	5:B:1171:VAL:HG21	2.11	0.50
6:C:70:ILE:HD11	6:C:144:ILE:CG1	2.42	0.50
7:D:134:THR:HG22	7:D:135:GLY:H	1.75	0.50
9:F:99:LEU:O	9:F:103:MET:HG2	2.12	0.50
10:G:101:VAL:HG12	10:G:102:GLN:N	2.25	0.50
11:H:64:ASN:O	11:H:65:LEU:HB2	2.11	0.50
4:M:167:CYS:O	4:M:167:CYS:SG	2.69	0.50
4:M:195:ASP:O	4:M:196:GLU:HB3	2.11	0.50
4:M:350:ARG:HB2	4:M:488:ASN:OD1	2.11	0.50
4:M:1265:ASN:C	4:M:1267:MET:N	2.67	0.50
5:N:27:ALA:C	5:N:29:ASP:N	2.70	0.50
5:N:39:ARG:NH2	5:N:665:GLU:CG	2.72	0.50
5:N:65:GLU:CG	5:N:66:ASP:H	2.15	0.50
5:N:310:MET:HE1	5:N:387:LEU:HD12	1.93	0.50
5:N:792:MET:HA	5:N:856:PHE:O	2.12	0.50
5:N:834:ASN:CA	5:N:838:SER:O	2.60	0.50
5:N:1159:ARG:HD2	5:N:1159:ARG:C	2.36	0.50
10:S:35:GLU:OE2	10:S:48:VAL:HG23	2.11	0.50
11:T:128:ASN:O	11:T:128:ASN:OD1	2.30	0.50
12:U:92:ARG:HB3	12:U:95:THR:OG1	2.12	0.50
4:A:130:ASP:O	4:A:131:SER:C	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:289:ILE:C	4:A:291:GLU:N	2.70	0.49
4:A:388:LEU:O	4:A:392:VAL:HG23	2.12	0.49
4:A:574:GLY:O	4:A:575:LYS:C	2.54	0.49
5:B:209:GLU:CD	5:B:788:ARG:HH22	2.20	0.49
5:B:810:GLU:CB	5:B:815:ARG:HH22	2.24	0.49
5:B:842:ASN:HD22	5:B:845:SER:HB3	1.77	0.49
5:B:899:ILE:HD12	5:B:911:ILE:HG23	1.94	0.49
6:C:256:ALA:O	6:C:259:LEU:N	2.45	0.49
7:D:195:ILE:N	7:D:196:PRO:CD	2.76	0.49
8:E:55:ARG:HD2	8:E:83:CYS:O	2.12	0.49
10:G:27:LYS:O	10:G:30:LEU:HB3	2.12	0.49
10:G:80:LYS:O	10:G:80:LYS:HG2	2.11	0.49
13:J:31:ASP:O	13:J:32:GLU:C	2.55	0.49
4:M:626:ASN:O	4:M:631:HIS:CD2	2.64	0.49
4:M:817:ALA:O	4:M:818:MET:C	2.54	0.49
4:M:871:ASP:OD1	4:M:1366:ARG:NH2	2.45	0.49
4:M:958:VAL:O	4:M:958:VAL:HG12	2.11	0.49
4:M:1265:ASN:O	4:M:1268:LEU:N	2.45	0.49
4:M:1308:THR:HG23	4:M:1309:ASP:N	2.26	0.49
4:M:1404:GLU:O	4:M:1407:GLU:HB2	2.12	0.49
5:N:37:PHE:HE1	5:N:41:LYS:CD	2.25	0.49
5:N:344:LYS:O	5:N:345:LYS:CG	2.60	0.49
5:N:806:THR:HG22	5:N:808:ALA:HB3	1.94	0.49
5:N:1084:GLN:C	5:N:1085:ILE:HD12	2.36	0.49
7:P:59:ILE:HG21	7:P:145:MET:SD	2.52	0.49
8:Q:42:PHE:CZ	8:Q:58:MET:HE3	2.47	0.49
8:Q:128:PRO:HA	8:Q:129:PRO:C	2.37	0.49
9:R:135:ARG:HD3	9:R:143:PHE:CD2	2.47	0.49
10:S:3:PHE:CG	10:S:80:LYS:NZ	2.67	0.49
4:A:17:VAL:HA	5:B:1215:ARG:O	2.12	0.49
4:A:347:PHE:CE2	4:A:493:GLN:OE1	2.65	0.49
4:A:353:ILE:HD12	4:A:470:LEU:HD21	1.94	0.49
4:A:653:VAL:O	4:A:654:ASN:C	2.55	0.49
5:B:33:VAL:HG21	5:B:638:PHE:HZ	1.77	0.49
5:B:412:LEU:HB3	5:B:466:TRP:CZ2	2.47	0.49
5:B:550:ASP:OD1	5:B:551:PRO:HD2	2.12	0.49
5:B:579:ARG:CB	5:B:586:TRP:HE1	2.24	0.49
11:H:116:TYR:HE2	11:H:140:ALA:HB1	1.78	0.49
12:I:59:VAL:C	12:I:61:ASP:H	2.19	0.49
14:K:21:ILE:HG23	14:K:31:VAL:HG11	1.93	0.49
4:M:72:GLU:OE2	5:N:1175:LEU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:92:HIS:HD2	4:M:304:MET:HE1	1.77	0.49
4:M:102:VAL:O	4:M:105:CYS:HB2	2.13	0.49
4:M:353:ILE:HG21	4:M:487:MET:HG3	1.94	0.49
4:M:997:LEU:HD13	4:M:1018:PHE:HE2	1.77	0.49
5:N:1147:LEU:HD23	5:N:1147:LEU:C	2.36	0.49
6:O:70:ILE:HD11	6:O:144:ILE:HG12	1.94	0.49
6:O:174:ALA:O	13:V:10:CYS:O	2.30	0.49
6:O:215:GLU:O	6:O:216:GLY:C	2.53	0.49
8:Q:29:PHE:C	8:Q:30:ILE:HG13	2.36	0.49
8:Q:205:SER:O	8:Q:206:GLY:C	2.54	0.49
10:S:15:PRO:O	10:S:16:SER:C	2.55	0.49
11:T:95:TYR:HE2	11:T:97:MET:CG	2.24	0.49
15:X:36:SER:O	15:X:37:LYS:C	2.55	0.49
4:A:34:LYS:NZ	4:A:57:ARG:NH2	2.60	0.49
4:A:55:ASP:C	4:A:57:ARG:N	2.71	0.49
4:A:427:GLN:O	4:A:428:TYR:C	2.54	0.49
4:A:445:ASN:ND2	4:A:446:ARG:N	2.61	0.49
4:A:947:PHE:HD2	4:A:954:TRP:CZ2	2.30	0.49
4:A:1005:GLU:O	4:A:1006:ILE:C	2.55	0.49
4:A:1072:ILE:HD11	4:A:1368:MET:HA	1.93	0.49
4:A:1115:SER:HB3	4:A:1330:ASN:HD21	1.77	0.49
5:B:176:SER:O	5:B:182:SER:HB3	2.12	0.49
5:B:1176:ASN:C	5:B:1178:ASN:H	2.19	0.49
6:C:104:PHE:HD2	6:C:105:GLY:H	1.59	0.49
7:D:17:LYS:HE3	7:D:17:LYS:HA	1.94	0.49
10:G:22:MET:O	10:G:23:LYS:C	2.55	0.49
11:H:4:THR:O	11:H:5:LEU:HD23	2.11	0.49
15:L:31:CYS:HB3	15:L:34:CYS:C	2.37	0.49
4:M:14:VAL:CG2	5:N:1216:LEU:HD13	2.42	0.49
4:M:182:VAL:HG22	4:M:201:VAL:HA	1.94	0.49
4:M:442:VAL:HB	4:M:489:LEU:HD11	1.93	0.49
4:M:603:ASN:O	4:M:604:GLY:C	2.54	0.49
4:M:670:ILE:HG23	4:M:805:LEU:CD2	2.41	0.49
4:M:763:ALA:C	4:M:803:SER:HB3	2.37	0.49
4:M:1226:VAL:HG22	4:M:1240:CYS:HB3	1.94	0.49
5:N:39:ARG:HH11	5:N:39:ARG:HG2	1.77	0.49
5:N:797:TYR:HE1	5:N:854:LEU:CD2	2.25	0.49
5:N:1004:GLU:HG3	5:N:1064:TYR:HE2	1.77	0.49
5:N:1196:ILE:HB	5:N:1197:PRO:HD2	1.94	0.49
10:S:66:GLY:O	10:S:67:SER:C	2.55	0.49
11:T:123:MET:HE1	11:T:142:LEU:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:103:CYS:CB	12:U:106:CYS:SG	3.00	0.49
4:A:334:GLY:O	4:A:335:ARG:C	2.55	0.49
4:A:901:LEU:N	4:A:926:GLN:NE2	2.49	0.49
4:A:1227:ILE:HG22	4:A:1228:TRP:H	1.77	0.49
4:A:1293:SER:OG	4:A:1294:PRO:HD2	2.12	0.49
4:A:1423:GLY:O	4:A:1424:VAL:C	2.55	0.49
5:B:210:LYS:HD3	5:B:481:GLN:O	2.12	0.49
5:B:582:VAL:HA	5:B:626:ILE:O	2.13	0.49
5:B:758:PHE:HB3	5:B:761:HIS:CD2	2.48	0.49
6:C:27:LEU:O	6:C:28:ALA:C	2.55	0.49
11:H:123:MET:HE1	11:H:142:LEU:HD11	1.94	0.49
12:I:13:MET:HG3	12:I:14:LEU:H	1.76	0.49
12:I:50:THR:HG22	12:I:51:ASN:N	2.27	0.49
12:I:51:ASN:O	12:I:54:GLU:HG3	2.12	0.49
14:K:12:LEU:HD12	14:K:12:LEU:N	2.27	0.49
4:M:53:LEU:CD2	4:M:54:ASN:N	2.55	0.49
4:M:250:ILE:O	4:M:258:GLY:HA3	2.12	0.49
4:M:274:ILE:O	4:M:275:SER:C	2.55	0.49
4:M:453:MET:C	4:M:455:MET:N	2.70	0.49
4:M:482:PHE:C	4:M:484:GLY:N	2.69	0.49
4:M:722:LEU:HD22	4:M:799:PHE:CD1	2.47	0.49
5:N:215:GLN:OE1	5:N:479:VAL:HG22	2.13	0.49
5:N:230:ALA:N	5:N:231:PRO:HD2	2.27	0.49
5:N:653:VAL:CG2	5:N:689:LEU:HB3	2.43	0.49
5:N:1135:ARG:O	5:N:1136:ASP:C	2.56	0.49
10:S:9:LEU:HD12	10:S:10:ASN:N	2.27	0.49
10:S:115:MET:CB	10:S:116:PRO:HD2	2.41	0.49
13:V:32:GLU:H	13:V:32:GLU:CD	2.20	0.49
14:W:52:ASN:O	14:W:54:ARG:N	2.46	0.49
2:5:21:DC:H2''	2:5:22:BRU:C5'	2.42	0.49
4:A:381:THR:CG2	4:A:383:TYR:H	2.25	0.49
4:A:722:LEU:O	4:A:725:ALA:HB3	2.12	0.49
4:A:1116:LEU:HD11	4:A:1118:VAL:HG13	1.95	0.49
5:B:750:GLY:O	5:B:751:VAL:C	2.55	0.49
5:B:850:LEU:HD12	5:B:851:PHE:H	1.74	0.49
6:C:147:LEU:HD12	6:C:151:GLN:O	2.12	0.49
6:C:167:HIS:HD2	6:C:168:ALA:N	2.10	0.49
7:D:135:GLY:C	7:D:137:ASN:H	2.20	0.49
7:D:151:PHE:CD1	7:D:151:PHE:N	2.80	0.49
10:G:34:VAL:HG12	10:G:45:ILE:CG2	2.37	0.49
10:G:74:TYR:H	10:G:74:TYR:HD2	1.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G:111:THR:HB	10:G:114:LEU:HB2	1.94	0.49
11:H:100:THR:HG22	11:H:101:ALA:N	2.27	0.49
13:J:52:THR:O	13:J:53:HIS:C	2.55	0.49
14:K:42:LEU:HD21	14:K:46:ILE:CD1	2.42	0.49
4:M:4:GLN:O	4:M:5:GLN:HB2	2.11	0.49
4:M:37:PHE:HB2	4:M:52:GLY:HA3	1.94	0.49
4:M:335:ARG:O	4:M:336:ILE:C	2.54	0.49
4:M:853:ASP:OD1	4:M:853:ASP:C	2.55	0.49
4:M:982:THR:N	4:M:985:ASP:HB2	2.27	0.49
5:N:446:LEU:O	5:N:447:ALA:CB	2.60	0.49
5:N:797:TYR:HE1	5:N:854:LEU:HD23	1.76	0.49
5:N:997:GLU:H	5:N:997:GLU:CD	2.19	0.49
6:O:238:ILE:HG22	6:O:243:VAL:HG23	1.94	0.49
9:R:123:LYS:O	9:R:124:GLU:C	2.55	0.49
12:U:98:VAL:HG11	12:U:113:ASP:OD1	2.12	0.49
4:A:299:HIS:O	4:A:301:ALA:N	2.46	0.49
4:A:645:LEU:O	4:A:646:PHE:C	2.55	0.49
4:A:974:ASP:C	4:A:976:THR:H	2.21	0.49
4:A:1224:LEU:HD12	4:A:1241:ARG:O	2.13	0.49
4:A:1265:ASN:O	4:A:1268:LEU:N	2.41	0.49
7:D:20:GLU:HA	7:D:20:GLU:OE2	2.12	0.49
11:H:123:MET:HE1	11:H:142:LEU:CD1	2.43	0.49
12:I:50:THR:CG2	12:I:52:ILE:HG12	2.42	0.49
12:I:69:PRO:HG2	12:I:85:PHE:CD2	2.47	0.49
15:L:40:LEU:HD22	15:L:44:ASP:CG	2.38	0.49
4:M:34:LYS:NZ	4:M:57:ARG:CZ	2.76	0.49
4:M:42:ASP:HB3	4:M:45:GLN:CA	2.43	0.49
4:M:166:GLY:O	4:M:167:CYS:CB	2.61	0.49
4:M:356:ASP:C	4:M:358:ASN:H	2.20	0.49
4:M:1409:LEU:O	4:M:1412:ALA:HB3	2.12	0.49
5:N:247:GLY:O	5:N:249:ARG:N	2.46	0.49
5:N:300:HIS:CE1	5:N:376:PHE:CE1	3.01	0.49
5:N:796:LEU:HD12	5:N:852:ARG:O	2.12	0.49
5:N:1115:THR:HG22	5:N:1117:GLN:CG	2.43	0.49
6:O:86:CYS:O	6:O:88:CYS:N	2.46	0.49
10:S:34:VAL:HG12	10:S:45:ILE:CG2	2.37	0.49
14:W:55:LYS:CB	14:W:81:TYR:HE1	2.25	0.49
4:A:278:THR:O	4:A:278:THR:HG22	2.12	0.49
4:A:298:PHE:O	4:A:301:ALA:HB3	2.12	0.49
4:A:929:LEU:CD2	4:A:983:ILE:HG21	2.43	0.49
4:A:1242:VAL:HG12	4:A:1243:VAL:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1420:ASP:HB3	4:A:1422:ARG:CG	2.30	0.49
4:A:1436:ILE:HD13	5:B:1139:ILE:HG23	1.95	0.49
5:B:129:PHE:HA	5:B:165:VAL:O	2.13	0.49
5:B:364:ILE:HG22	5:B:365:THR:N	2.27	0.49
5:B:1084:GLN:OE1	6:C:189:THR:CG2	2.61	0.49
5:B:1159:ARG:HE	5:B:1193:GLN:HE21	1.59	0.49
5:B:1182:CYS:O	5:B:1183:LYS:C	2.55	0.49
6:C:256:ALA:C	6:C:258:ILE:H	2.19	0.49
7:D:156:ASP:C	7:D:158:GLU:N	2.70	0.49
9:F:90:ARG:HD3	9:F:155:LEU:HD11	1.94	0.49
10:G:27:LYS:HE2	10:G:54:ILE:HB	1.95	0.49
10:G:39:THR:HG22	10:G:41:LYS:H	1.78	0.49
12:I:92:ARG:HB3	12:I:95:THR:OG1	2.12	0.49
13:J:32:GLU:O	13:J:35:ALA:N	2.46	0.49
15:L:40:LEU:HD13	15:L:44:ASP:HB3	1.94	0.49
4:M:50:ILE:C	4:M:52:GLY:N	2.67	0.49
4:M:68:GLN:C	4:M:70:CYS:N	2.67	0.49
4:M:577:ILE:O	4:M:578:LEU:C	2.55	0.49
4:M:657:LEU:HD12	4:M:657:LEU:O	2.12	0.49
4:M:738:LYS:C	4:M:740:LEU:H	2.21	0.49
4:M:785:PRO:HG2	4:M:786:HIS:CD2	2.46	0.49
4:M:1243:VAL:HG12	4:M:1244:ARG:N	2.27	0.49
4:M:1342:GLU:CG	8:Q:198:ILE:HD13	2.42	0.49
5:N:244:LEU:C	5:N:246:LYS:N	2.68	0.49
5:N:298:LEU:CD2	5:N:298:LEU:N	2.76	0.49
5:N:803:LEU:HD13	5:N:1032:SER:HB3	1.94	0.49
5:N:1106:ARG:HD3	5:N:1126:GLY:O	2.12	0.49
7:P:57:LEU:O	7:P:61:GLU:HB2	2.13	0.49
3:3:3:G:H4'	4:A:323:LYS:NZ	2.28	0.49
4:A:37:PHE:HB2	4:A:52:GLY:HA3	1.93	0.49
4:A:355:GLY:N	4:A:482:PHE:CE1	2.80	0.49
4:A:1151:GLU:HB3	4:A:1153:TYR:HE1	1.78	0.49
5:B:39:ARG:HH21	5:B:665:GLU:CG	2.26	0.49
5:B:244:LEU:HD11	5:B:366:GLN:HE22	1.78	0.49
5:B:386:LEU:O	5:B:387:LEU:C	2.53	0.49
5:B:654:ARG:C	5:B:656:GLY:N	2.70	0.49
5:B:758:PHE:N	5:B:759:PRO:CD	2.76	0.49
5:B:816:GLU:O	5:B:817:LEU:HD23	2.13	0.49
5:B:1084:GLN:C	5:B:1085:ILE:HD12	2.38	0.49
6:C:236:GLY:C	6:C:238:ILE:N	2.68	0.49
7:D:52:LEU:C	7:D:54:GLU:N	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D:134:THR:CG2	7:D:135:GLY:H	2.25	0.49
8:E:153:HIS:O	8:E:154:ILE:HG13	2.13	0.49
8:E:205:SER:O	8:E:206:GLY:C	2.56	0.49
13:J:12:LYS:O	13:J:14:VAL:HG23	2.13	0.49
4:M:404:TYR:HB2	4:M:433:GLU:HB2	1.93	0.49
4:M:407:ARG:HG2	4:M:430:TRP:CZ2	2.48	0.49
4:M:701:LEU:HD23	12:U:115:LYS:CG	2.43	0.49
4:M:1397:LEU:O	4:M:1400:CYS:HB3	2.13	0.49
4:M:1434:ALA:O	4:M:1436:ILE:N	2.46	0.49
4:M:1445:ILE:HD12	4:M:1445:ILE:N	2.12	0.49
5:N:27:ALA:C	5:N:29:ASP:H	2.21	0.49
5:N:189:LEU:O	5:N:190:TYR:C	2.56	0.49
5:N:278:GLN:NE2	5:N:337:ARG:HH21	2.10	0.49
5:N:361:LEU:HD21	5:N:377:PHE:HD2	1.72	0.49
5:N:388:CYS:C	5:N:390:LEU:N	2.71	0.49
5:N:980:PHE:CD2	5:N:1094:ARG:HA	2.47	0.49
5:N:1087:PHE:HD2	5:N:1088:GLY:H	1.58	0.49
5:N:1159:ARG:HD3	5:N:1193:GLN:CG	2.41	0.49
6:O:104:PHE:HD2	6:O:105:GLY:N	2.10	0.49
8:Q:134:THR:C	8:Q:135:PHE:HD1	2.21	0.49
9:R:75:PRO:HG2	9:R:78:GLN:HB2	1.94	0.49
11:T:11:GLN:O	11:T:28:ALA:HB1	2.13	0.49
11:T:26:ILE:CD1	11:T:49:VAL:HG11	2.43	0.49
3:3:6:C:H2'	3:3:7:A:H8	1.76	0.49
4:A:252:PHE:HB2	4:A:256:GLN:CD	2.37	0.49
5:B:464:GLY:HA2	5:B:479:VAL:O	2.12	0.49
5:B:841:MET:O	5:B:993:THR:HA	2.13	0.49
6:C:113:VAL:HG23	6:C:147:LEU:HD21	1.94	0.49
7:D:19:GLU:O	7:D:21:GLU:N	2.46	0.49
8:E:157:SER:O	8:E:159:ASP:N	2.46	0.49
4:M:269:ILE:CD1	4:M:300:VAL:HA	2.42	0.49
4:M:653:VAL:O	4:M:654:ASN:C	2.55	0.49
4:M:665:GLY:O	4:M:667:GLY:N	2.46	0.49
4:M:779:PHE:O	4:M:780:VAL:C	2.56	0.49
4:M:1120:LEU:CD1	4:M:1120:LEU:H	2.26	0.49
4:M:1222:ASN:O	4:M:1223:ASP:HB3	2.13	0.49
5:N:43:LEU:HD13	5:N:812:LEU:HD23	1.94	0.49
5:N:1001:PHE:HD2	6:O:34:ARG:NH2	2.09	0.49
5:N:1103:ILE:O	5:N:1122:ARG:NH1	2.46	0.49
9:R:74:ILE:HG23	9:R:75:PRO:HD2	1.95	0.49
10:S:1:MET:HE1	10:S:80:LYS:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:91:VAL:HB	10:S:139:ILE:O	2.12	0.49
11:T:24:CYS:HB2	11:T:44:VAL:HG21	1.94	0.49
4:A:998:LEU:HD12	4:A:998:LEU:H	1.78	0.49
5:B:230:ALA:N	5:B:231:PRO:HD2	2.27	0.49
5:B:263:GLY:O	5:B:264:SER:C	2.56	0.49
5:B:298:LEU:HD13	5:B:314:LEU:HD13	1.94	0.49
5:B:597:MET:O	5:B:599:THR:N	2.46	0.49
5:B:803:LEU:CD1	5:B:1032:SER:HB3	2.43	0.49
8:E:9:ILE:CD1	8:E:53:PRO:HD3	2.43	0.49
14:K:52:ASN:O	14:K:54:ARG:N	2.46	0.49
4:M:19:PHE:HE1	4:M:1396:ALA:HB3	1.78	0.49
4:M:220:THR:O	4:M:221:SER:C	2.54	0.49
4:M:222:LEU:O	4:M:224:PHE:N	2.46	0.49
4:M:847:ASP:HB3	4:M:1398:MET:HE1	1.93	0.49
4:M:1064:VAL:O	4:M:1067:LEU:HB3	2.13	0.49
5:N:526:GLU:HG2	5:N:538:ASN:HD22	1.77	0.49
5:N:911:ILE:O	5:N:911:ILE:HG22	2.12	0.49
5:N:1065:GLN:NE2	5:N:1067:ARG:HG2	2.28	0.49
10:S:117:GLN:O	10:S:119:LEU:N	2.45	0.49
1:1:1:DA:C2'	1:1:2:DA:O5'	2.61	0.48
4:A:222:LEU:O	4:A:224:PHE:N	2.46	0.48
4:A:224:PHE:HZ	4:A:234:MET:CE	2.26	0.48
4:A:402:ALA:HB1	4:A:434:ARG:HA	1.95	0.48
4:A:839:ARG:O	4:A:840:ARG:C	2.55	0.48
5:B:240:ILE:HG23	5:B:240:ILE:O	2.13	0.48
5:B:344:LYS:O	5:B:345:LYS:HB2	2.13	0.48
5:B:1106:ARG:HH11	5:B:1110:PRO:HG2	1.78	0.48
9:F:81:THR:HB	9:F:136:ARG:HH11	1.78	0.48
9:F:119:ARG:HG3	9:F:119:ARG:NH1	2.28	0.48
14:K:47:ARG:HD2	14:K:47:ARG:O	2.13	0.48
4:M:42:ASP:C	4:M:44:THR:N	2.69	0.48
4:M:84:ILE:HG22	4:M:239:LEU:HB3	1.95	0.48
4:M:207:ILE:O	4:M:208:LEU:C	2.56	0.48
4:M:472:LEU:CD1	5:N:835:GLN:CD	2.85	0.48
4:M:566:ILE:O	4:M:567:LYS:O	2.30	0.48
4:M:590:ARG:HH21	4:M:620:LYS:CB	2.22	0.48
4:M:1032:LEU:O	4:M:1036:ARG:HD3	2.13	0.48
4:M:1166:ASP:OD2	4:M:1239:ARG:HD2	2.13	0.48
4:M:1175:SER:O	4:M:1176:LEU:HB2	2.12	0.48
5:N:378:LEU:CD1	5:N:382:ILE:HD11	2.43	0.48
5:N:862:GLN:HG2	5:N:963:PHE:HD1	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:X:70:ARG:HG2	15:X:70:ARG:HH11	1.78	0.48
4:A:79:GLY:HA3	4:A:243:PRO:CG	2.42	0.48
4:A:500:GLU:OE2	5:B:1145:SER:HB2	2.12	0.48
4:A:551:TYR:CE2	14:K:62:LYS:HE2	2.48	0.48
4:A:846:GLU:OE1	4:A:1425:SER:OG	2.31	0.48
4:A:960:ILE:O	4:A:961:ARG:C	2.54	0.48
4:A:961:ARG:HG2	4:A:965:GLN:HE21	1.78	0.48
4:A:981:LEU:HD21	4:A:1038:THR:C	2.37	0.48
4:A:1291:VAL:HG13	4:A:1292:PRO:N	2.28	0.48
5:B:205:ILE:N	5:B:205:ILE:CD1	2.76	0.48
5:B:213:ILE:O	5:B:215:GLN:HG2	2.13	0.48
5:B:259:TYR:HD1	5:B:259:TYR:H	1.59	0.48
6:C:174:ALA:HB2	6:C:235:VAL:CG2	2.43	0.48
6:C:243:VAL:O	6:C:243:VAL:HG12	2.14	0.48
8:E:176:PRO:O	8:E:212:ARG:HA	2.13	0.48
13:J:36:LEU:HA	13:J:39:LEU:HD12	1.95	0.48
14:K:112:GLN:CG	14:K:112:GLN:N	2.76	0.48
4:M:92:HIS:O	4:M:95:PHE:N	2.39	0.48
4:M:577:ILE:HG13	4:M:578:LEU:N	2.28	0.48
4:M:1341:ILE:O	4:M:1344:GLY:N	2.46	0.48
4:M:1377:THR:O	4:M:1379:GLY:N	2.45	0.48
5:N:96:TYR:HB2	5:N:129:PHE:HB2	1.95	0.48
5:N:464:GLY:HA2	5:N:479:VAL:O	2.12	0.48
5:N:911:ILE:CG2	5:N:966:VAL:HG11	2.43	0.48
5:N:1064:TYR:O	5:N:1065:GLN:C	2.56	0.48
10:S:1:MET:O	10:S:1:MET:CE	2.61	0.48
11:T:40:LEU:HD22	11:T:123:MET:HE3	1.94	0.48
4:A:23:SER:HB3	4:A:233:TRP:CE2	2.47	0.48
4:A:23:SER:HB3	4:A:233:TRP:CZ2	2.48	0.48
4:A:107:CYS:H	4:A:114:LEU:HD21	1.78	0.48
4:A:172:PRO:HG3	4:A:185:TRP:CZ2	2.48	0.48
4:A:469:ARG:HH11	4:A:469:ARG:HB3	1.77	0.48
4:A:735:VAL:O	4:A:735:VAL:HG12	2.13	0.48
4:A:1225:PHE:CE2	4:A:1227:ILE:HD11	2.48	0.48
4:A:1308:THR:HG23	4:A:1309:ASP:N	2.27	0.48
5:B:128:LEU:HB2	5:B:168:GLY:O	2.14	0.48
5:B:360:PHE:O	5:B:361:LEU:C	2.55	0.48
5:B:1085:ILE:N	5:B:1085:ILE:CD1	2.71	0.48
6:C:36:VAL:HG11	6:C:251:LEU:HB2	1.95	0.48
8:E:17:ARG:O	8:E:20:LYS:HB2	2.13	0.48
8:E:213:ILE:HG12	8:E:214:CYS:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:F:77:ASP:O	9:F:78:GLN:HB2	2.12	0.48
4:M:289:ILE:C	4:M:291:GLU:N	2.71	0.48
4:M:735:VAL:O	4:M:735:VAL:HG12	2.13	0.48
4:M:901:LEU:HD22	4:M:919:ILE:CG2	2.43	0.48
4:M:993:LEU:HD23	4:M:1022:LEU:HD21	1.95	0.48
4:M:1127:ASP:HB3	4:M:1130:GLN:HB2	1.95	0.48
4:M:1445:ILE:HD11	10:S:68:ALA:HB1	1.95	0.48
5:N:129:PHE:HE2	5:N:166:PHE:HD1	1.62	0.48
5:N:230:ALA:N	5:N:231:PRO:CD	2.77	0.48
5:N:877:PRO:C	5:N:878:GLN:HG3	2.38	0.48
7:P:134:THR:CG2	7:P:135:GLY:H	2.26	0.48
7:P:153:ARG:C	7:P:154:PHE:CD1	2.91	0.48
10:S:110:VAL:HG22	10:S:161:GLY:O	2.14	0.48
12:U:5:ARG:HD3	12:U:36:GLU:OE2	2.13	0.48
12:U:50:THR:HG22	12:U:51:ASN:N	2.28	0.48
14:W:46:ILE:O	14:W:46:ILE:HG22	2.11	0.48
4:A:87:ALA:HB1	4:A:276:LEU:HD23	1.93	0.48
4:A:166:GLY:O	4:A:167:CYS:CB	2.62	0.48
4:A:535:THR:HG23	4:A:575:LYS:HE2	1.95	0.48
4:A:626:ASN:C	4:A:628:GLY:H	2.21	0.48
4:A:968:GLN:O	4:A:970:THR:N	2.46	0.48
4:A:1017:LEU:HB2	8:E:206:GLY:N	2.09	0.48
5:B:130:VAL:HB	5:B:167:ILE:HD12	1.96	0.48
5:B:298:LEU:N	5:B:298:LEU:CD2	2.76	0.48
5:B:458:LYS:O	5:B:459:TYR:C	2.55	0.48
5:B:563:MET:CE	5:B:580:VAL:HB	2.44	0.48
5:B:1001:PHE:CE2	6:C:34:ARG:NE	2.81	0.48
7:D:51:ASN:C	7:D:52:LEU:O	2.53	0.48
7:D:51:ASN:ND2	7:D:54:GLU:OE2	2.46	0.48
9:F:143:PHE:C	9:F:143:PHE:HD1	2.20	0.48
11:H:91:ASP:C	11:H:93:TYR:N	2.69	0.48
12:I:111:THR:CG2	12:I:112:SER:H	2.24	0.48
13:J:57:ILE:HG12	13:J:61:LEU:HD11	1.96	0.48
15:L:30:ILE:HG22	15:L:31:CYS:N	2.29	0.48
4:M:12:ARG:NE	5:N:1192:TYR:HE2	2.12	0.48
4:M:265:LYS:HE2	4:M:322:VAL:HG13	1.95	0.48
4:M:608:ILE:O	4:M:610:GLY:N	2.45	0.48
4:M:1277:GLU:C	4:M:1279:ILE:H	2.21	0.48
4:M:1412:ALA:HA	4:M:1417:GLU:OE2	2.14	0.48
5:N:294:ASP:C	5:N:296:GLU:H	2.20	0.48
5:N:313:MET:CE	5:N:386:LEU:HD22	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:401:PHE:HA	5:N:404:LYS:HG3	1.94	0.48
5:N:992:ILE:HD11	14:W:66:PRO:HB2	1.96	0.48
6:O:69:LEU:HB3	13:V:6:ARG:CD	2.41	0.48
8:Q:35:VAL:O	8:Q:37:LEU:N	2.47	0.48
9:R:147:SER:OG	9:R:150:GLU:HG3	2.14	0.48
10:S:44:TYR:CD2	10:S:105:PRO:HB2	2.48	0.48
11:T:15:VAL:HG22	11:T:26:ILE:HG12	1.95	0.48
11:T:98:TYR:C	11:T:118:PHE:HD2	2.21	0.48
13:V:2:ILE:HG22	13:V:3:VAL:O	2.13	0.48
4:A:35:ILE:HB	4:A:83:HIS:O	2.13	0.48
4:A:187:LYS:HE3	4:A:198:GLU:OE2	2.14	0.48
4:A:475:THR:CG2	4:A:476:SER:H	2.25	0.48
4:A:1059:HIS:ND1	9:F:86:THR:HA	2.27	0.48
5:B:34:ILE:O	5:B:35:SER:C	2.57	0.48
5:B:400:HIS:O	5:B:402:GLY:N	2.46	0.48
5:B:798:TYR:CE2	6:C:62:PHE:CE2	3.01	0.48
5:B:838:SER:HA	5:B:989:THR:O	2.13	0.48
5:B:844:SER:O	5:B:847:ASP:N	2.45	0.48
5:B:1189:ILE:HG22	5:B:1190:ASP:N	2.29	0.48
6:C:99:LEU:HB2	6:C:157:CYS:HB2	1.96	0.48
7:D:153:ARG:C	7:D:154:PHE:CD1	2.92	0.48
11:H:93:TYR:N	11:H:93:TYR:CD1	2.81	0.48
4:M:44:THR:O	4:M:45:GLN:HB2	2.14	0.48
4:M:334:GLY:O	4:M:335:ARG:C	2.56	0.48
4:M:548:ASN:OD1	14:W:60:ALA:HB1	2.13	0.48
4:M:981:LEU:HD21	4:M:1039:LYS:HA	1.94	0.48
4:M:1006:ILE:CD1	8:Q:163:GLU:HG3	2.42	0.48
4:M:1144:LYS:HB2	4:M:1268:LEU:O	2.13	0.48
4:M:1450:LEU:O	4:M:1450:LEU:CG	2.62	0.48
5:N:235:SER:C	5:N:236:HIS:HD2	2.22	0.48
5:N:1060:ARG:C	5:N:1062:HIS:H	2.22	0.48
6:O:146:LYS:C	6:O:147:LEU:HD23	2.39	0.48
6:O:254:LYS:C	6:O:256:ALA:N	2.71	0.48
8:Q:145:THR:HG21	8:Q:187:TYR:CD2	2.48	0.48
10:S:22:MET:O	10:S:23:LYS:C	2.56	0.48
10:S:35:GLU:CG	10:S:48:VAL:HG23	2.44	0.48
10:S:51:TYR:O	10:S:54:ILE:HG13	2.12	0.48
2:2:21:DC:C6	2:2:22:BRU:BR	3.22	0.48
4:A:92:HIS:O	4:A:95:PHE:N	2.41	0.48
4:A:335:ARG:O	4:A:336:ILE:C	2.54	0.48
4:A:550:LEU:HD11	4:A:561:PRO:HD2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1157:ASP:C	4:A:1159:ARG:H	2.21	0.48
5:B:502:ILE:HD12	5:B:502:ILE:N	2.13	0.48
5:B:597:MET:C	5:B:599:THR:N	2.72	0.48
5:B:597:MET:C	5:B:599:THR:H	2.22	0.48
5:B:658:ILE:HG22	5:B:659:ALA:N	2.28	0.48
5:B:861:ASP:OD1	5:B:862:GLN:N	2.47	0.48
5:B:899:ILE:CG2	5:B:949:VAL:HG21	2.43	0.48
5:B:1060:ARG:C	5:B:1062:HIS:H	2.21	0.48
7:D:59:ILE:O	7:D:60:LYS:C	2.57	0.48
10:G:91:VAL:HA	10:G:101:VAL:HA	1.96	0.48
13:J:36:LEU:O	13:J:39:LEU:N	2.46	0.48
15:L:39:SER:O	15:L:40:LEU:HG	2.12	0.48
4:M:34:LYS:HB3	4:M:36:ARG:HE	1.79	0.48
4:M:299:HIS:C	4:M:301:ALA:H	2.21	0.48
4:M:714:PHE:CG	12:U:97:MET:HE1	2.49	0.48
5:N:102:VAL:HG12	5:N:104:GLU:HG2	1.95	0.48
5:N:846:ILE:HG23	5:N:974:PRO:HG2	1.95	0.48
5:N:910:VAL:HG12	5:N:912:ILE:H	1.78	0.48
5:N:950:ASP:O	5:N:951:GLN:HB2	2.12	0.48
11:T:116:TYR:HE2	11:T:140:ALA:HB1	1.79	0.48
13:V:53:HIS:C	13:V:53:HIS:CD2	2.90	0.48
13:V:64:ASN:ND2	13:V:65:PRO:HD3	2.28	0.48
4:A:43:GLU:O	4:A:44:THR:CB	2.62	0.48
4:A:672:ASP:HB2	4:A:736:ASN:OD1	2.13	0.48
4:A:699:ALA:HB3	4:A:701:LEU:HG	1.96	0.48
5:B:27:ALA:C	5:B:29:ASP:H	2.22	0.48
5:B:412:LEU:HB3	5:B:466:TRP:HZ2	1.79	0.48
5:B:434:ARG:HA	5:B:437:GLU:OE2	2.14	0.48
5:B:792:MET:HA	5:B:856:PHE:O	2.14	0.48
5:B:1040:ASN:O	5:B:1041:GLU:C	2.56	0.48
10:G:34:VAL:HG11	10:G:74:TYR:HE1	1.77	0.48
4:M:43:GLU:O	4:M:44:THR:CB	2.61	0.48
4:M:463:ILE:HB	4:M:464:PRO:CD	2.43	0.48
4:M:567:LYS:HD2	4:M:568:PRO:CD	2.36	0.48
4:M:1095:THR:OG1	4:M:1113:THR:HB	2.14	0.48
4:M:1377:THR:O	4:M:1378:GLN:C	2.56	0.48
5:N:205:ILE:O	5:N:206:ASN:C	2.57	0.48
5:N:711:GLU:H	5:N:712:PRO:HD2	1.78	0.48
5:N:757:PRO:HG3	5:N:1028:GLU:OE2	2.14	0.48
5:N:954:VAL:O	15:X:55:ILE:O	2.30	0.48
5:N:955:THR:CG2	5:N:956:THR:N	2.71	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:45:ALA:HA	6:O:72:LEU:CD1	2.43	0.48
6:O:145:CYS:HA	13:V:2:ILE:CD1	2.43	0.48
10:S:106:MET:CG	10:S:107:LYS:N	2.77	0.48
11:T:93:TYR:N	11:T:93:TYR:CD1	2.81	0.48
4:A:34:LYS:HZ1	4:A:57:ARG:CZ	2.26	0.48
4:A:244:PRO:O	4:A:245:PRO:C	2.56	0.48
4:A:274:ILE:O	4:A:275:SER:C	2.57	0.48
4:A:652:VAL:O	4:A:653:VAL:C	2.56	0.48
4:A:862:ASN:HA	8:E:174:GLN:HB3	1.95	0.48
4:A:896:ARG:NH2	4:A:1030:ARG:NH2	2.61	0.48
4:A:1299:VAL:HG12	4:A:1300:LYS:H	1.75	0.48
4:A:1329:THR:CG2	4:A:1331:SER:HB3	2.44	0.48
4:A:1396:ALA:O	4:A:1397:LEU:C	2.56	0.48
5:B:687:GLU:O	5:B:689:LEU:HG	2.12	0.48
5:B:980:PHE:CD2	5:B:1094:ARG:HA	2.49	0.48
6:C:77:ILE:C	6:C:79:GLN:H	2.21	0.48
8:E:145:THR:HG21	8:E:187:TYR:CD2	2.48	0.48
11:H:95:TYR:CE2	11:H:97:MET:HG3	2.49	0.48
14:K:18:LYS:NZ	14:K:38:GLU:HG2	2.29	0.48
14:K:52:ASN:O	14:K:53:ASP:C	2.57	0.48
4:M:84:ILE:O	4:M:84:ILE:CG2	2.61	0.48
4:M:218:ASP:O	4:M:219:PHE:C	2.57	0.48
4:M:236:LEU:HD11	4:M:304:MET:HE1	1.95	0.48
4:M:384:ASN:CG	4:M:388:LEU:HD12	2.39	0.48
4:M:467:THR:O	4:M:469:ARG:HG3	2.14	0.48
4:M:606:LEU:HB3	4:M:614:PHE:CE2	2.48	0.48
4:M:709:THR:HB	4:M:712:GLU:HG3	1.96	0.48
4:M:1094:VAL:CG1	4:M:1095:THR:N	2.59	0.48
4:M:1453:TYR:O	4:M:1454:MET:HB3	2.13	0.48
5:N:26:THR:O	5:N:29:ASP:HB2	2.13	0.48
5:N:1095:LEU:HD12	5:N:1095:LEU:N	2.28	0.48
8:Q:48:ASP:CG	8:Q:49:SER:N	2.70	0.48
13:V:53:HIS:CD2	13:V:54:VAL:N	2.82	0.48
2:2:15:DT:C2'	2:2:16:DT:H71	2.41	0.48
2:5:21:DC:C6	2:5:22:BRU:BR	3.22	0.48
4:A:384:ASN:CG	4:A:388:LEU:HD12	2.39	0.48
4:A:403:LYS:O	4:A:404:TYR:CD2	2.66	0.48
4:A:603:ASN:O	4:A:604:GLY:C	2.56	0.48
4:A:711:ARG:NH2	12:I:87:GLN:OE1	2.47	0.48
5:B:274:PRO:O	5:B:275:TYR:HB2	2.13	0.48
5:B:344:LYS:O	5:B:345:LYS:CG	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:486:TYR:CE1	5:B:1096:ARG:HD3	2.49	0.48
5:B:616:ILE:CG1	5:B:697:GLU:HA	2.43	0.48
4:M:696:GLU:HG2	4:M:696:GLU:O	2.13	0.48
4:M:699:ALA:HB2	12:U:114:GLN:CD	2.39	0.48
4:M:968:GLN:O	4:M:970:THR:N	2.47	0.48
4:M:1010:ALA:O	4:M:1011:GLN:C	2.56	0.48
4:M:1118:VAL:HG12	4:M:1327:ILE:HG13	1.94	0.48
4:M:1324:PRO:HB2	8:Q:142:VAL:HG11	1.94	0.48
5:N:45:SER:O	5:N:46:GLN:C	2.56	0.48
5:N:466:TRP:CE3	5:N:466:TRP:HA	2.48	0.48
5:N:563:MET:CE	5:N:580:VAL:HB	2.44	0.48
5:N:606:LYS:HD2	5:N:608:ASP:OD2	2.13	0.48
5:N:865:LYS:NZ	5:N:869:SER:HA	2.29	0.48
8:Q:114:ASN:O	8:Q:115:ASN:CB	2.62	0.48
8:Q:191:LYS:O	8:Q:192:ARG:C	2.56	0.48
12:U:85:PHE:CD1	12:U:99:LEU:HD13	2.48	0.48
1:4:5:DA:H5'	4:M:1387:HIS:CE1	2.49	0.48
4:A:26:GLU:O	4:A:27:VAL:C	2.56	0.48
4:A:1208:THR:HG22	4:A:1210:GLY:H	1.78	0.48
4:A:1373:ASP:HA	4:A:1376:THR:CG2	2.43	0.48
5:B:179:CYS:SG	5:B:181:LEU:HG	2.54	0.48
5:B:205:ILE:O	5:B:206:ASN:C	2.57	0.48
5:B:581:PHE:HA	5:B:585:VAL:O	2.14	0.48
5:B:1177:HIS:CB	5:B:1179:GLN:HE21	2.25	0.48
6:C:22:LEU:HD23	6:C:25:VAL:HG21	1.96	0.48
6:C:70:ILE:HG12	6:C:142:VAL:HG11	1.95	0.48
6:C:140:ASN:O	6:C:141:GLY:O	2.31	0.48
7:D:7:THR:O	7:D:7:THR:HG23	2.14	0.48
10:G:127:PRO:HG2	10:G:138:THR:HG21	1.95	0.48
4:M:168:GLY:O	4:M:169:ASN:C	2.55	0.48
4:M:1157:ASP:C	4:M:1159:ARG:H	2.22	0.48
4:M:1430:LEU:HB2	4:M:1432:GLN:HG3	1.96	0.48
5:N:181:LEU:HD22	5:N:189:LEU:CD2	2.43	0.48
5:N:213:ILE:O	5:N:215:GLN:HG2	2.14	0.48
5:N:235:SER:OG	5:N:236:HIS:CD2	2.67	0.48
5:N:980:PHE:CE2	5:N:1094:ARG:HG3	2.48	0.48
8:Q:213:ILE:HG12	8:Q:214:CYS:N	2.28	0.48
12:U:84:VAL:O	12:U:84:VAL:HG13	2.13	0.48
2:2:21:DC:H2''	2:2:22:BRU:C5'	2.44	0.47
4:A:341:MET:CE	4:A:843:LYS:NZ	2.77	0.47
4:A:399:HIS:CB	4:A:400:PRO:CD	2.84	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:618:GLU:O	4:A:619:LYS:C	2.57	0.47
5:B:27:ALA:C	5:B:29:ASP:N	2.70	0.47
5:B:195:CYS:SG	5:B:197:PHE:HB2	2.54	0.47
5:B:558:LEU:O	5:B:560:GLU:N	2.47	0.47
5:B:711:GLU:H	5:B:712:PRO:HD2	1.79	0.47
5:B:764:SER:HB3	5:B:765:PRO:CD	2.44	0.47
5:B:950:ASP:O	5:B:951:GLN:HB2	2.13	0.47
5:B:1142:GLY:HA3	9:F:88:TYR:HE2	1.79	0.47
6:C:22:LEU:HD13	6:C:230:MET:HE1	1.95	0.47
6:C:83:SER:O	6:C:85:ASP:N	2.47	0.47
11:H:113:ALA:HB1	11:H:125:LEU:O	2.14	0.47
13:J:1:MET:HE2	13:J:60:PHE:CE2	2.50	0.47
14:K:18:LYS:NZ	14:K:37:LYS:O	2.47	0.47
4:M:116:ASP:C	4:M:118:HIS:N	2.69	0.47
4:M:285:PRO:O	4:M:287:HIS:N	2.46	0.47
4:M:709:THR:HG21	12:U:93:LYS:O	2.14	0.47
4:M:767:GLN:HB2	4:M:799:PHE:HD1	1.79	0.47
4:M:920:LEU:HD23	4:M:920:LEU:C	2.39	0.47
5:N:130:VAL:HB	5:N:167:ILE:HD12	1.96	0.47
5:N:575:PRO:HG2	5:N:576:ASP:H	1.79	0.47
5:N:893:LEU:HD22	5:N:897:GLY:C	2.39	0.47
5:N:981:ALA:HB2	5:N:987:LYS:HA	1.96	0.47
7:P:64:VAL:C	7:P:66:ARG:N	2.72	0.47
12:U:59:VAL:C	12:U:61:ASP:H	2.21	0.47
2:2:25:DT:C2'	2:2:26:DC:O5'	2.53	0.47
3:3:6:C:O2'	3:3:7:A:H5'	2.14	0.47
4:A:89:PRO:C	4:A:204:THR:HG21	2.39	0.47
4:A:697:ALA:C	4:A:699:ALA:H	2.21	0.47
4:A:863:VAL:HG11	4:A:866:PHE:CE2	2.49	0.47
4:A:871:ASP:OD1	4:A:1366:ARG:NH2	2.47	0.47
4:A:1013:ASP:C	4:A:1015:VAL:H	2.22	0.47
5:B:336:ARG:NH2	5:B:345:LYS:CG	2.72	0.47
5:B:658:ILE:HG22	5:B:662:MET:HE2	1.95	0.47
5:B:1074:ASN:HB2	5:B:1081:LEU:HD21	1.96	0.47
6:C:27:LEU:HD13	6:C:228:PHE:CE2	2.49	0.47
7:D:4:SER:OG	7:D:5:THR:N	2.35	0.47
7:D:210:ILE:O	7:D:214:LEU:HG	2.14	0.47
10:G:3:PHE:CD1	10:G:80:LYS:NZ	2.78	0.47
11:H:38:LEU:HD13	11:H:125:LEU:HD13	1.96	0.47
11:H:40:LEU:HD12	11:H:122:LEU:O	2.14	0.47
11:H:84:ALA:HA	11:H:87:ARG:CB	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:L:36:SER:O	15:L:37:LYS:C	2.57	0.47
4:M:7:SER:C	4:M:9:ALA:N	2.72	0.47
4:M:18:GLN:HB3	5:N:1215:ARG:HG3	1.96	0.47
4:M:406:ILE:HG13	4:M:431:LYS:HB2	1.95	0.47
4:M:504:LEU:N	4:M:504:LEU:HD12	2.28	0.47
4:M:849:MET:HE3	4:M:1061:GLY:CA	2.44	0.47
4:M:1102:LYS:HG2	4:M:1106:ASN:HD21	1.79	0.47
4:M:1410:PHE:HD2	5:N:1212:ILE:HD12	1.80	0.47
5:N:295:GLY:H	5:N:298:LEU:HD23	1.78	0.47
5:N:616:ILE:HG13	5:N:697:GLU:HG3	1.95	0.47
6:O:83:SER:C	6:O:85:ASP:H	2.22	0.47
7:P:53:SER:HB3	7:P:153:ARG:N	2.26	0.47
7:P:68:ARG:C	7:P:70:PHE:N	2.71	0.47
10:S:99:PHE:HZ	10:S:163:ILE:HD13	1.79	0.47
4:A:35:ILE:CD1	4:A:241:VAL:HG11	2.44	0.47
4:A:43:GLU:O	4:A:44:THR:HB	2.15	0.47
4:A:67:CYS:O	4:A:68:GLN:HB2	2.13	0.47
4:A:367:PRO:HB3	4:A:465:TYR:O	2.14	0.47
4:A:392:VAL:O	4:A:393:ARG:C	2.56	0.47
4:A:409:SER:O	4:A:410:GLY:C	2.57	0.47
4:A:506:ALA:O	4:A:509:LEU:HB2	2.14	0.47
4:A:874:ASP:O	4:A:876:ALA:N	2.47	0.47
4:A:883:LEU:HD11	4:A:1017:LEU:HD11	1.97	0.47
4:A:1097:GLY:C	4:A:1099:PRO:HD2	2.40	0.47
4:A:1397:LEU:C	4:A:1400:CYS:HB3	2.39	0.47
5:B:259:TYR:N	5:B:259:TYR:CD1	2.82	0.47
5:B:542:MET:SD	5:B:747:MET:HE3	2.53	0.47
5:B:616:ILE:HG13	5:B:697:GLU:HG3	1.95	0.47
5:B:806:THR:HG22	5:B:808:ALA:CB	2.44	0.47
5:B:830:TYR:CE2	5:B:1000:PRO:HD3	2.49	0.47
6:C:3:GLU:O	6:C:4:GLU:CG	2.62	0.47
6:C:34:ARG:HA	6:C:37:MET:HE3	1.96	0.47
6:C:226:ASP:O	6:C:227:THR:CB	2.62	0.47
8:E:161:LYS:C	8:E:163:GLU:N	2.70	0.47
13:J:7:CYS:SG	13:J:49:MET:HE3	2.54	0.47
4:M:53:LEU:O	4:M:54:ASN:C	2.57	0.47
4:M:68:GLN:O	4:M:70:CYS:N	2.42	0.47
4:M:90:VAL:HG13	4:M:297:GLN:CD	2.39	0.47
4:M:252:PHE:HB2	4:M:256:GLN:NE2	2.29	0.47
4:M:347:PHE:CE2	4:M:493:GLN:OE1	2.67	0.47
4:M:412:ARG:HH21	5:N:1108:ARG:NH1	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:821:ARG:HB2	4:M:821:ARG:NH1	2.27	0.47
4:M:1373:ASP:HA	4:M:1376:THR:CG2	2.44	0.47
5:N:552:MET:HA	5:N:555:ILE:HB	1.96	0.47
5:N:798:TYR:HE2	6:O:62:PHE:HZ	1.60	0.47
5:N:1134:GLU:CD	5:N:1134:GLU:H	2.22	0.47
7:P:7:THR:O	7:P:7:THR:HG23	2.14	0.47
8:Q:176:PRO:HB2	8:Q:211:TYR:O	2.15	0.47
9:R:77:ASP:C	9:R:79:ARG:N	2.71	0.47
11:T:58:THR:HG22	11:T:59:ILE:N	2.27	0.47
15:X:40:LEU:HD13	15:X:44:ASP:HB3	1.96	0.47
4:A:61:ILE:O	4:A:63:ARG:N	2.47	0.47
4:A:218:ASP:O	4:A:219:PHE:O	2.31	0.47
4:A:299:HIS:C	4:A:301:ALA:N	2.70	0.47
4:A:964:ILE:O	4:A:967:ALA:N	2.46	0.47
5:B:118:ARG:HG2	5:B:204:ILE:HD13	1.96	0.47
5:B:126:SER:O	5:B:169:ARG:HA	2.14	0.47
5:B:235:SER:C	5:B:236:HIS:HD2	2.22	0.47
5:B:361:LEU:HD21	5:B:377:PHE:HD2	1.74	0.47
5:B:1060:ARG:HA	5:B:1060:ARG:HD2	1.59	0.47
6:C:98:VAL:C	6:C:99:LEU:CD2	2.85	0.47
6:C:242:GLN:HA	6:C:245:VAL:HG23	1.95	0.47
7:D:191:ALA:C	7:D:193:THR:N	2.73	0.47
14:K:65:HIS:CD2	14:K:67:PHE:HB2	2.50	0.47
4:M:43:GLU:O	4:M:44:THR:HB	2.14	0.47
4:M:432:VAL:O	4:M:433:GLU:C	2.57	0.47
4:M:774:ARG:NH2	4:M:797:LYS:HG3	2.30	0.47
4:M:915:SER:O	4:M:919:ILE:HG13	2.14	0.47
4:M:1349:TYR:CE1	4:M:1368:MET:HE3	2.49	0.47
5:N:952:VAL:HG22	5:N:966:VAL:HG13	1.97	0.47
5:N:1115:THR:CG2	5:N:1117:GLN:CG	2.92	0.47
5:N:1172:ILE:O	5:N:1172:ILE:CG2	2.62	0.47
7:P:51:ASN:O	7:P:52:LEU:C	2.56	0.47
7:P:55:ALA:O	7:P:56:ARG:C	2.58	0.47
10:S:138:THR:HG22	10:S:139:ILE:HG13	1.95	0.47
11:T:100:THR:OG1	11:T:138:GLU:HG3	2.12	0.47
12:U:110:PHE:H	12:U:110:PHE:HD2	1.62	0.47
13:V:36:LEU:HA	13:V:39:LEU:HD12	1.95	0.47
4:A:270:LEU:O	4:A:271:LYS:C	2.58	0.47
4:A:469:ARG:NH2	5:B:991:GLY:O	2.47	0.47
4:A:695:LYS:C	4:A:697:ALA:N	2.70	0.47
4:A:858:ASN:C	4:A:858:ASN:ND2	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:96:TYR:HB2	5:B:129:PHE:HB2	1.97	0.47
5:B:247:GLY:O	5:B:249:ARG:N	2.48	0.47
5:B:802:PRO:HG2	5:B:805:THR:HG22	1.96	0.47
6:C:44:LEU:HD21	6:C:159:ALA:CB	2.45	0.47
7:D:50:LEU:HD13	7:D:55:ALA:HA	1.97	0.47
7:D:64:VAL:C	7:D:66:ARG:N	2.72	0.47
8:E:157:SER:OG	8:E:159:ASP:HB2	2.14	0.47
9:F:75:PRO:O	9:F:77:ASP:O	2.32	0.47
9:F:77:ASP:C	9:F:79:ARG:N	2.70	0.47
14:K:56:VAL:HG22	14:K:77:THR:HG22	1.97	0.47
14:K:67:PHE:C	14:K:68:PHE:CD2	2.92	0.47
15:L:32:ALA:CB	15:L:55:ILE:HD12	2.40	0.47
4:M:332:LYS:H	4:M:337:ARG:HB3	1.78	0.47
4:M:765:VAL:HG23	4:M:802:ASN:O	2.15	0.47
4:M:1242:VAL:HG12	4:M:1243:VAL:N	2.30	0.47
4:M:1425:SER:O	4:M:1426:GLU:C	2.55	0.47
5:N:220:GLY:O	5:N:222:ILE:HG13	2.14	0.47
5:N:259:TYR:CD1	5:N:259:TYR:N	2.81	0.47
5:N:519:TRP:CD1	5:N:519:TRP:C	2.91	0.47
7:P:146:GLN:O	7:P:149:THR:HG22	2.14	0.47
12:U:4:PHE:CD1	12:U:4:PHE:C	2.93	0.47
2:2:20:DC:H2''	2:2:21:DC:C5'	2.44	0.47
4:A:108:MET:HB3	4:A:210:ILE:CD1	2.45	0.47
4:A:639:PRO:CG	4:A:640:GLN:H	2.27	0.47
4:A:687:LYS:O	4:A:690:VAL:HB	2.15	0.47
4:A:794:PRO:C	4:A:796:SER:H	2.21	0.47
4:A:1153:TYR:CE1	12:I:42:LEU:HD13	2.50	0.47
5:B:63:ILE:HA	5:B:421:PHE:CE2	2.49	0.47
5:B:386:LEU:C	5:B:388:CYS:N	2.72	0.47
5:B:841:MET:HE1	5:B:980:PHE:CE1	2.50	0.47
5:B:957:ASN:O	5:B:958:GLN:C	2.57	0.47
5:B:1177:HIS:O	5:B:1179:GLN:N	2.47	0.47
6:C:66:ARG:NH1	13:J:2:ILE:CG2	2.67	0.47
6:C:167:HIS:CD2	6:C:168:ALA:N	2.83	0.47
6:C:239:PRO:O	6:C:240:VAL:C	2.56	0.47
7:D:55:ALA:O	7:D:56:ARG:C	2.58	0.47
7:D:195:ILE:HG22	7:D:198:LEU:HG	1.95	0.47
11:H:18:GLY:O	11:H:19:ARG:HB2	2.15	0.47
11:H:82:PRO:C	11:H:84:ALA:N	2.73	0.47
4:M:382:PRO:CB	4:M:428:TYR:HE2	2.23	0.47
4:M:392:VAL:O	4:M:393:ARG:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:453:MET:C	4:M:455:MET:H	2.22	0.47
4:M:929:LEU:CD2	4:M:983:ILE:HG21	2.44	0.47
4:M:1344:GLY:O	4:M:1345:ARG:C	2.56	0.47
5:N:604:ARG:C	5:N:606:LYS:H	2.23	0.47
5:N:778:MET:HE2	5:N:1094:ARG:CD	2.44	0.47
5:N:1060:ARG:HD2	5:N:1060:ARG:HA	1.63	0.47
5:N:1072:MET:HE3	5:N:1085:ILE:HD13	1.96	0.47
6:O:35:ARG:HH11	14:W:41:THR:N	2.12	0.47
6:O:243:VAL:O	6:O:243:VAL:HG12	2.14	0.47
6:O:252:GLN:HG3	14:W:95:ILE:HG23	1.97	0.47
8:Q:112:TYR:CZ	8:Q:136:ASN:HB2	2.49	0.47
11:T:31:THR:HG22	11:T:31:THR:O	2.14	0.47
2:5:20:DC:H4'	4:M:447:GLN:CD	2.39	0.47
4:A:34:LYS:CB	4:A:36:ARG:HE	2.28	0.47
4:A:102:VAL:O	4:A:105:CYS:HB2	2.14	0.47
4:A:467:THR:O	4:A:469:ARG:HG3	2.14	0.47
4:A:789:LYS:HE3	12:I:67:THR:CB	2.45	0.47
4:A:847:ASP:HB3	4:A:1398:MET:HE1	1.96	0.47
4:A:1127:ASP:HB3	4:A:1130:GLN:HB2	1.97	0.47
4:A:1226:VAL:HG13	4:A:1240:CYS:HB3	1.97	0.47
4:A:1389:PHE:CD1	4:A:1390:ASN:N	2.83	0.47
5:B:244:LEU:C	5:B:246:LYS:N	2.70	0.47
5:B:575:PRO:HG2	5:B:576:ASP:H	1.80	0.47
5:B:683:SER:C	5:B:685:LEU:N	2.73	0.47
5:B:801:LYS:O	13:J:52:THR:CG2	2.63	0.47
7:D:27:LEU:HG	7:D:197:SER:HB2	1.96	0.47
7:D:56:ARG:HD3	7:D:149:THR:HA	1.97	0.47
8:E:14:ARG:O	8:E:17:ARG:HB3	2.14	0.47
10:G:145:VAL:CG1	10:G:146:LYS:N	2.77	0.47
12:I:61:ASP:C	12:I:63:GLY:N	2.71	0.47
12:I:84:VAL:HG13	12:I:84:VAL:O	2.13	0.47
12:I:110:PHE:H	12:I:110:PHE:HD2	1.63	0.47
13:J:13:VAL:C	13:J:14:VAL:HG23	2.39	0.47
13:J:53:HIS:CD2	13:J:53:HIS:C	2.91	0.47
4:M:262:LEU:C	4:M:264:PHE:H	2.22	0.47
4:M:341:MET:CE	4:M:843:LYS:HZ1	2.16	0.47
4:M:356:ASP:OD2	4:M:469:ARG:NH1	2.48	0.47
4:M:391:LEU:O	4:M:394:ASN:HB2	2.14	0.47
4:M:805:LEU:CD1	5:N:1052:VAL:HG21	2.45	0.47
4:M:825:ILE:O	4:M:826:ASP:C	2.56	0.47
4:M:829:VAL:C	4:M:831:THR:N	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:920:LEU:HD23	4:M:921:GLY:N	2.30	0.47
4:M:1168:GLU:O	4:M:1172:LEU:HG	2.14	0.47
4:M:1339:LEU:HD13	8:Q:147:HIS:CD2	2.49	0.47
4:M:1451:VAL:O	4:M:1454:MET:HG2	2.14	0.47
5:N:37:PHE:CE1	5:N:41:LYS:CG	2.97	0.47
5:N:240:ILE:HG23	5:N:240:ILE:O	2.14	0.47
5:N:244:LEU:O	5:N:246:LYS:N	2.48	0.47
5:N:309:GLN:CD	12:U:52:ILE:HD11	2.39	0.47
5:N:658:ILE:HG22	5:N:659:ALA:N	2.30	0.47
5:N:758:PHE:HE1	5:N:1027:ILE:HG22	1.78	0.47
5:N:839:MET:HE3	5:N:1010:LEU:HD21	1.96	0.47
5:N:953:LEU:HD23	5:N:965:LYS:H	1.80	0.47
5:N:980:PHE:HE2	5:N:1094:ARG:HG3	1.78	0.47
5:N:999:MET:HG2	5:N:1007:VAL:HG22	1.97	0.47
6:O:26:ASP:O	6:O:27:LEU:C	2.54	0.47
6:O:83:SER:O	6:O:85:ASP:N	2.47	0.47
7:P:63:LEU:O	7:P:129:LEU:HD11	2.14	0.47
8:Q:31:THR:O	8:Q:35:VAL:HG23	2.14	0.47
9:R:75:PRO:HG3	9:R:78:GLN:OE1	2.15	0.47
10:S:106:MET:HE2	10:S:106:MET:HB3	1.75	0.47
10:S:111:THR:HG22	10:S:113:HIS:N	2.25	0.47
12:U:34:TYR:HD2	12:U:34:TYR:C	2.22	0.47
14:W:29:ASN:O	14:W:76:GLN:HG3	2.14	0.47
15:X:40:LEU:HD22	15:X:44:ASP:CG	2.40	0.47
4:A:393:ARG:O	4:A:394:ASN:C	2.58	0.47
4:A:577:ILE:HA	4:A:580:VAL:HG23	1.95	0.47
4:A:1036:ARG:HG2	4:A:1036:ARG:NH1	2.26	0.47
4:A:1095:THR:OG1	4:A:1113:THR:HB	2.15	0.47
4:A:1120:LEU:CD1	4:A:1304:TRP:O	2.62	0.47
4:A:1299:VAL:CG1	4:A:1300:LYS:N	2.76	0.47
4:A:1406:VAL:O	4:A:1407:GLU:C	2.57	0.47
5:B:582:VAL:HG12	5:B:587:HIS:NE2	2.29	0.47
6:C:168:ALA:C	6:C:170:TRP:N	2.71	0.47
10:G:7:LEU:HD11	10:G:45:ILE:HD11	1.96	0.47
11:H:47:PHE:CD2	11:H:95:TYR:HD1	2.31	0.47
13:J:32:GLU:CD	13:J:32:GLU:H	2.23	0.47
4:M:26:GLU:O	4:M:27:VAL:C	2.57	0.47
4:M:34:LYS:N	4:M:57:ARG:NH2	2.60	0.47
4:M:211:PHE:HA	4:M:214:ILE:HG13	1.97	0.47
4:M:224:PHE:HZ	4:M:234:MET:CE	2.26	0.47
4:M:418:SER:C	4:M:420:ARG:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:805:LEU:O	5:N:761:HIS:CE1	2.68	0.47
4:M:1365:TYR:O	4:M:1366:ARG:C	2.57	0.47
5:N:309:GLN:HG3	12:U:52:ILE:CD1	2.45	0.47
5:N:412:LEU:HB3	5:N:466:TRP:HZ2	1.80	0.47
5:N:579:ARG:HG2	5:N:579:ARG:NH1	2.28	0.47
6:O:175:ALA:HB3	13:V:43:ARG:HH22	1.80	0.47
8:Q:61:GLN:HG2	8:Q:62:ALA:N	2.29	0.47
8:Q:94:LYS:HE2	8:Q:98:ILE:CD1	2.39	0.47
11:T:18:GLY:O	11:T:19:ARG:HB2	2.15	0.47
14:W:10:PHE:N	14:W:10:PHE:HD2	2.11	0.47
15:X:49:LYS:O	15:X:50:ASP:CB	2.62	0.47
4:A:265:LYS:HE2	4:A:322:VAL:HG11	1.96	0.47
4:A:370:ILE:O	4:A:371:ALA:C	2.58	0.47
4:A:441:PRO:HD2	4:A:498:ARG:NH2	2.30	0.47
4:A:464:PRO:O	4:A:465:TYR:O	2.33	0.47
4:A:608:ILE:HD12	4:A:613:ILE:CD1	2.45	0.47
4:A:701:LEU:HD23	12:I:115:LYS:CG	2.45	0.47
4:A:826:ASP:O	4:A:827:THR:C	2.57	0.47
4:A:920:LEU:HD23	4:A:921:GLY:N	2.30	0.47
5:B:258:LEU:HG	5:B:258:LEU:O	2.15	0.47
5:B:405:ARG:HA	5:B:631:GLY:O	2.15	0.47
5:B:906:SER:O	5:B:907:GLY:O	2.32	0.47
6:C:112:ASN:CB	6:C:114:TYR:CE1	2.98	0.47
7:D:14:ARG:N	7:D:17:LYS:HZ3	2.12	0.47
7:D:71:LYS:HA	7:D:74:GLN:CB	2.45	0.47
8:E:42:PHE:O	8:E:43:LYS:C	2.57	0.47
10:G:87:VAL:HG23	10:G:103:VAL:HG21	1.96	0.47
14:K:85:ASP:O	14:K:88:LYS:HB2	2.15	0.47
4:M:243:PRO:O	4:M:244:PRO:C	2.57	0.47
4:M:477:PRO:HG3	4:M:521:MET:HG2	1.97	0.47
4:M:701:LEU:HA	12:U:115:LYS:CE	2.42	0.47
4:M:710:LEU:H	4:M:710:LEU:HD12	1.79	0.47
4:M:862:ASN:HA	8:Q:174:GLN:HB3	1.96	0.47
5:N:229:ALA:CB	5:N:231:PRO:HD2	2.45	0.47
5:N:298:LEU:CD2	5:N:298:LEU:H	2.28	0.47
5:N:343:ILE:HG21	5:N:348:ARG:H	1.75	0.47
5:N:1110:PRO:HG3	5:N:1125:ASP:HB3	1.97	0.47
5:N:1147:LEU:HD23	5:N:1147:LEU:O	2.15	0.47
6:O:189:THR:CG2	6:O:190:ASP:N	2.77	0.47
7:P:135:GLY:C	7:P:137:ASN:H	2.22	0.47
8:Q:93:MET:SD	8:Q:97:VAL:HG23	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:12:ASN:HB3	12:U:13:MET:H	1.51	0.47
13:V:1:MET:H3	13:V:56:LEU:H	1.62	0.47
4:A:241:VAL:HG13	4:A:266:LEU:HD13	1.97	0.47
4:A:898:ARG:HB2	4:A:933:TYR:HE1	1.79	0.47
4:A:907:THR:HG22	4:A:908:LEU:O	2.15	0.47
4:A:1396:ALA:O	4:A:1398:MET:N	2.48	0.47
5:B:233:PRO:HG2	5:B:234:ILE:CD1	2.44	0.47
5:B:446:LEU:N	5:B:446:LEU:HD23	2.30	0.47
5:B:776:GLN:O	5:B:1095:LEU:HA	2.15	0.47
5:B:825:VAL:HG13	5:B:826:ALA:H	1.80	0.47
6:C:116:LYS:HD3	6:C:140:ASN:HB3	1.96	0.47
10:G:66:GLY:O	10:G:67:SER:C	2.57	0.47
10:G:99:PHE:CD1	10:G:99:PHE:C	2.93	0.47
10:G:117:GLN:C	10:G:119:LEU:H	2.23	0.47
12:I:99:LEU:HB2	12:I:101:PHE:CE1	2.50	0.47
4:M:37:PHE:H	4:M:37:PHE:HD1	1.62	0.47
4:M:115:LEU:O	4:M:122:MET:HE2	2.16	0.47
4:M:356:ASP:CB	4:M:469:ARG:NH1	2.74	0.47
4:M:524:VAL:CG1	4:M:525:GLN:H	2.14	0.47
4:M:913:LEU:HD23	4:M:919:ILE:HD12	1.97	0.47
4:M:1030:ARG:NH1	4:M:1035:TYR:OH	2.48	0.47
4:M:1096:SER:O	4:M:1100:ARG:HB3	2.15	0.47
4:M:1349:TYR:CA	4:M:1372:VAL:HG21	2.45	0.47
4:M:1450:LEU:HD11	9:R:108:PHE:CZ	2.50	0.47
5:N:233:PRO:HG2	5:N:234:ILE:HD12	1.95	0.47
5:N:1166:CYS:O	5:N:1168:LEU:N	2.48	0.47
8:Q:55:ARG:O	8:Q:57:MET:N	2.48	0.47
9:R:94:LEU:HD21	9:R:122:MET:HA	1.96	0.47
13:V:31:ASP:O	13:V:32:GLU:C	2.58	0.47
4:A:21:LEU:CD1	4:A:229:SER:HB2	2.45	0.46
4:A:252:PHE:HB2	4:A:256:GLN:NE2	2.30	0.46
4:A:364:VAL:O	4:A:364:VAL:HG13	2.13	0.46
4:A:1019:CYS:O	4:A:1022:LEU:N	2.48	0.46
4:A:1344:GLY:O	4:A:1345:ARG:C	2.57	0.46
4:A:1444:MET:HE3	4:A:1444:MET:HB2	1.79	0.46
5:B:172:ILE:HD13	5:B:178:ASN:CB	2.40	0.46
5:B:244:LEU:O	5:B:246:LYS:N	2.48	0.46
5:B:283:VAL:O	5:B:284:ILE:C	2.57	0.46
5:B:834:ASN:HB3	5:B:840:ILE:HG13	1.96	0.46
6:C:31:ASN:O	6:C:34:ARG:N	2.47	0.46
6:C:58:LEU:HD22	6:C:58:LEU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:69:LEU:N	6:C:69:LEU:HD12	2.29	0.46
6:C:83:SER:C	6:C:85:ASP:H	2.23	0.46
4:M:166:GLY:O	4:M:167:CYS:HB3	2.15	0.46
4:M:408:ASP:C	4:M:410:GLY:H	2.22	0.46
4:M:469:ARG:NH2	5:N:991:GLY:O	2.48	0.46
4:M:472:LEU:HD11	5:N:835:GLN:CD	2.39	0.46
4:M:896:ARG:NH2	4:M:1030:ARG:HH21	2.13	0.46
5:N:293:PRO:HG2	5:N:296:GLU:HB3	1.97	0.46
5:N:386:LEU:C	5:N:388:CYS:N	2.73	0.46
5:N:918:ILE:HD12	5:N:935:ARG:HD3	1.97	0.46
6:O:51:VAL:HG22	6:O:155:LEU:HD22	1.97	0.46
7:P:52:LEU:CD2	7:P:147:TYR:HE2	2.26	0.46
8:Q:58:MET:O	8:Q:59:SER:O	2.33	0.46
9:R:69:LEU:N	9:R:70:LYS:CA	2.78	0.46
11:T:26:ILE:HD13	11:T:49:VAL:HG11	1.97	0.46
12:U:100:PHE:N	12:U:100:PHE:CD1	2.84	0.46
15:X:38:LEU:O	15:X:39:SER:CB	2.62	0.46
15:X:55:ILE:H	15:X:55:ILE:HG12	1.34	0.46
2:5:23:DG:H2'	2:5:24:DG:C8	2.49	0.46
4:A:443:LEU:O	4:A:489:LEU:HD12	2.14	0.46
4:A:474:VAL:HG22	4:A:478:TYR:CE1	2.51	0.46
5:B:102:VAL:HG12	5:B:104:GLU:HG2	1.96	0.46
5:B:237:VAL:HG12	5:B:238:ALA:N	2.28	0.46
5:B:278:GLN:HG2	5:B:279:ASP:N	2.28	0.46
5:B:371:GLU:CD	5:B:371:GLU:N	2.73	0.46
5:B:1002:THR:O	5:B:1003:ALA:C	2.59	0.46
5:B:1081:LEU:HD12	5:B:1085:ILE:HD11	1.96	0.46
9:F:111:LEU:C	9:F:113:GLY:N	2.60	0.46
10:G:1:MET:O	10:G:1:MET:CE	2.62	0.46
14:K:40:HIS:O	14:K:41:THR:C	2.58	0.46
4:M:34:LYS:CB	4:M:36:ARG:HE	2.27	0.46
4:M:58:LEU:O	4:M:59:GLY:O	2.32	0.46
4:M:351:THR:HG21	5:N:1103:ILE:HG13	1.97	0.46
4:M:458:HIS:NE2	4:M:478:TYR:OH	2.35	0.46
4:M:478:TYR:O	4:M:479:ASN:HB3	2.14	0.46
5:N:281:PRO:O	5:N:282:ILE:C	2.57	0.46
6:O:141:GLY:HA2	13:V:16:ASP:HB3	1.97	0.46
7:P:119:ARG:HG2	7:P:120:GLU:N	2.29	0.46
9:R:95:GLY:O	9:R:96:THR:C	2.57	0.46
10:S:26:LEU:HD12	10:S:56:ILE:HD13	1.97	0.46
10:S:49:LEU:N	10:S:49:LEU:HD23	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:101:PHE:HB2	12:U:110:PHE:CE2	2.50	0.46
4:A:32:VAL:O	4:A:57:ARG:HB2	2.14	0.46
4:A:368:LYS:O	4:A:369:SER:C	2.58	0.46
4:A:929:LEU:HD23	4:A:983:ILE:HG21	1.97	0.46
4:A:1017:LEU:HB3	8:E:205:SER:HA	1.96	0.46
4:A:1213:GLY:O	4:A:1216:ILE:N	2.48	0.46
5:B:293:PRO:HG2	5:B:296:GLU:HB3	1.98	0.46
5:B:388:CYS:C	5:B:390:LEU:H	2.23	0.46
5:B:800:GLN:HB3	13:J:52:THR:HG22	1.90	0.46
5:B:806:THR:HG22	5:B:808:ALA:HB3	1.97	0.46
5:B:1187:ASN:O	5:B:1188:LYS:CB	2.55	0.46
7:D:208:GLU:O	7:D:212:LYS:HG3	2.15	0.46
10:G:88:ASP:HA	10:G:144:ARG:HA	1.96	0.46
4:M:774:ARG:H	4:M:774:ARG:HG2	1.44	0.46
4:M:1118:VAL:HG23	4:M:1118:VAL:O	2.16	0.46
4:M:1437:GLY:HA3	9:R:88:TYR:CD2	2.51	0.46
5:N:102:VAL:CG2	5:N:112:LEU:HD22	2.46	0.46
5:N:410:GLY:O	5:N:412:LEU:N	2.49	0.46
5:N:582:VAL:HG12	5:N:587:HIS:NE2	2.29	0.46
5:N:763:GLN:HG2	5:N:765:PRO:HD2	1.97	0.46
5:N:769:TYR:O	5:N:771:SER:N	2.48	0.46
5:N:1027:ILE:O	5:N:1028:GLU:C	2.57	0.46
5:N:1176:ASN:C	5:N:1178:ASN:H	2.22	0.46
6:O:6:PRO:HB3	6:O:25:VAL:HG13	1.93	0.46
6:O:112:ASN:CB	6:O:114:TYR:CE1	2.98	0.46
6:O:181:ASP:CG	6:O:186:LEU:HD13	2.39	0.46
7:P:53:SER:HB3	7:P:152:SER:HA	1.97	0.46
8:Q:46:TYR:CE2	8:Q:58:MET:HA	2.50	0.46
8:Q:145:THR:HG21	8:Q:187:TYR:CE2	2.50	0.46
8:Q:176:PRO:O	8:Q:212:ARG:HA	2.16	0.46
14:W:49:GLU:HG3	14:W:94:ILE:CG1	2.45	0.46
4:A:63:ARG:HA	4:A:74:MET:HE2	1.97	0.46
4:A:313:GLN:O	4:A:314:ALA:HB3	2.14	0.46
4:A:340:LEU:HD21	5:B:1200:ALA:CA	2.46	0.46
4:A:565:ILE:O	4:A:570:PRO:HA	2.15	0.46
4:A:738:LYS:C	4:A:740:LEU:H	2.24	0.46
4:A:901:LEU:HD22	4:A:919:ILE:HG22	1.98	0.46
4:A:958:VAL:HG22	4:A:1052:GLN:HB3	1.96	0.46
4:A:1115:SER:OG	4:A:1116:LEU:N	2.48	0.46
5:B:167:ILE:HG22	5:B:453:ILE:CD1	2.46	0.46
5:B:893:LEU:HD22	5:B:897:GLY:C	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:1115:THR:CG2	5:B:1117:GLN:HG3	2.45	0.46
6:C:77:ILE:O	6:C:79:GLN:N	2.49	0.46
6:C:97:VAL:HG12	6:C:99:LEU:CD2	2.45	0.46
6:C:208:GLU:C	6:C:210:GLU:H	2.23	0.46
7:D:53:SER:HB3	7:D:152:SER:HA	1.97	0.46
8:E:20:LYS:O	8:E:21:GLU:C	2.58	0.46
10:G:81:PRO:HB3	10:G:106:MET:HE1	1.97	0.46
11:H:130:ARG:HD2	11:H:130:ARG:N	2.24	0.46
13:J:2:ILE:HG12	13:J:57:ILE:HD12	1.96	0.46
15:L:49:LYS:O	15:L:50:ASP:CB	2.63	0.46
4:M:574:GLY:O	4:M:575:LYS:C	2.57	0.46
4:M:971:PHE:O	4:M:972:HIS:C	2.58	0.46
4:M:1237:ILE:HG22	4:M:1238:ILE:N	2.29	0.46
4:M:1313:LEU:HD23	4:M:1338:VAL:CG2	2.45	0.46
4:M:1420:ASP:O	4:M:1421:CYS:HB2	2.15	0.46
4:M:1436:ILE:HD13	5:N:1139:ILE:HG23	1.98	0.46
5:N:205:ILE:N	5:N:205:ILE:CD1	2.78	0.46
5:N:472:ALA:HB1	5:N:474:SER:HB3	1.97	0.46
5:N:558:LEU:O	5:N:560:GLU:N	2.49	0.46
5:N:841:MET:O	5:N:993:THR:HA	2.15	0.46
5:N:1214:PRO:HG2	5:N:1214:PRO:O	2.14	0.46
6:O:176:ILE:HG22	6:O:177:GLU:O	2.15	0.46
6:O:190:ASP:O	6:O:191:TYR:C	2.58	0.46
6:O:239:PRO:O	6:O:240:VAL:C	2.58	0.46
7:P:209:ARG:O	7:P:212:LYS:HB2	2.16	0.46
11:T:84:ALA:C	11:T:86:ASP:N	2.70	0.46
2:5:26:DC:C2'	2:5:27:DA:H5'	2.39	0.46
4:A:207:ILE:O	4:A:208:LEU:C	2.58	0.46
4:A:626:ASN:O	4:A:631:HIS:CD2	2.68	0.46
4:A:699:ALA:O	4:A:700:ASN:CB	2.63	0.46
4:A:805:LEU:O	5:B:761:HIS:CE1	2.68	0.46
4:A:901:LEU:CG	4:A:926:GLN:HE21	2.19	0.46
4:A:1365:TYR:O	4:A:1366:ARG:C	2.58	0.46
4:A:1385:THR:C	4:A:1387:HIS:N	2.71	0.46
5:B:465:ASN:N	5:B:465:ASN:ND2	2.59	0.46
5:B:604:ARG:C	5:B:606:LYS:H	2.24	0.46
5:B:707:PRO:O	5:B:711:GLU:HG3	2.15	0.46
5:B:865:LYS:NZ	5:B:869:SER:HA	2.31	0.46
5:B:1064:TYR:O	5:B:1065:GLN:C	2.58	0.46
7:D:47:LEU:HD11	10:G:3:PHE:CE2	2.49	0.46
8:E:18:THR:O	8:E:19:VAL:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:F:90:ARG:HD3	9:F:155:LEU:CD1	2.45	0.46
12:I:55:THR:HG22	12:I:58:VAL:CG2	2.45	0.46
15:L:61:THR:HG22	15:L:63:ARG:HG2	1.96	0.46
4:M:305:ASP:CG	4:M:326:ARG:HD2	2.40	0.46
4:M:472:LEU:O	4:M:475:THR:CB	2.62	0.46
4:M:523:ILE:HD12	4:M:622:VAL:CG2	2.46	0.46
4:M:560:ILE:HG13	11:T:78:SER:HB2	1.98	0.46
4:M:586:ILE:HD11	4:M:633:VAL:HG22	1.97	0.46
4:M:873:MET:HG2	4:M:957:PRO:HB3	1.97	0.46
4:M:899:VAL:CG2	4:M:1029:ARG:HG2	2.46	0.46
4:M:1097:GLY:O	4:M:1098:VAL:C	2.59	0.46
4:M:1385:THR:C	4:M:1387:HIS:N	2.72	0.46
4:M:1409:LEU:O	4:M:1410:PHE:C	2.59	0.46
5:N:118:ARG:CG	5:N:204:ILE:HD13	2.46	0.46
5:N:171:PRO:HD2	5:N:457:LEU:CD1	2.40	0.46
5:N:195:CYS:SG	5:N:197:PHE:HB2	2.56	0.46
5:N:429:PHE:HA	5:N:432:MET:CE	2.46	0.46
5:N:469:GLN:HB2	5:N:470:LYS:H	1.49	0.46
5:N:597:MET:C	5:N:599:THR:H	2.24	0.46
5:N:983:ARG:HD2	5:N:1091:TYR:HD2	1.80	0.46
5:N:1079:LYS:CA	6:O:27:LEU:HD21	2.45	0.46
6:O:36:VAL:HG21	6:O:251:LEU:HD22	1.96	0.46
6:O:213:PRO:O	6:O:214:ASN:CB	2.63	0.46
6:O:262:LEU:HD11	14:W:87:LEU:HD23	1.97	0.46
8:Q:22:MET:HE3	8:Q:26:ARG:CZ	2.45	0.46
11:T:40:LEU:CD1	11:T:123:MET:HB2	2.40	0.46
4:A:55:ASP:N	4:A:56:PRO:CD	2.78	0.46
4:A:351:THR:O	4:A:486:GLU:HA	2.16	0.46
4:A:401:GLY:O	4:A:435:HIS:CD2	2.69	0.46
4:A:648:ASN:O	4:A:649:ILE:C	2.57	0.46
4:A:894:GLU:O	4:A:896:ARG:N	2.48	0.46
4:A:1102:LYS:O	4:A:1106:ASN:ND2	2.48	0.46
4:A:1102:LYS:HG2	4:A:1106:ASN:HD21	1.80	0.46
4:A:1150:SER:HA	4:A:1195:LEU:HD23	1.97	0.46
5:B:999:MET:HB3	5:B:1007:VAL:HG21	1.98	0.46
5:B:1152:MET:CE	5:B:1157:ALA:HA	2.46	0.46
6:C:18:VAL:HG23	6:C:240:VAL:HB	1.97	0.46
6:C:181:ASP:CG	6:C:186:LEU:HD13	2.40	0.46
8:E:124:VAL:HG13	8:E:132:ILE:HD12	1.98	0.46
11:H:62:SER:C	11:H:64:ASN:N	2.73	0.46
12:I:14:LEU:CD2	12:I:28:GLU:O	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:I:115:LYS:HD3	12:I:117:LYS:CE	2.36	0.46
14:K:24:ASP:OD1	14:K:26:LYS:N	2.48	0.46
4:M:42:ASP:HA	4:M:46:THR:O	2.15	0.46
4:M:75:ASN:O	4:M:76:GLU:HB2	2.16	0.46
4:M:147:VAL:O	4:M:149:GLU:N	2.48	0.46
4:M:755:PHE:O	4:M:756:ILE:C	2.59	0.46
4:M:960:ILE:O	4:M:961:ARG:C	2.57	0.46
5:N:209:GLU:CD	5:N:788:ARG:HH22	2.23	0.46
5:N:386:LEU:O	5:N:387:LEU:C	2.56	0.46
5:N:520:GLY:N	5:N:748:ILE:HG22	2.31	0.46
5:N:657:HIS:CE1	5:N:689:LEU:HD11	2.51	0.46
13:V:16:ASP:OD1	13:V:17:LYS:N	2.47	0.46
14:W:47:ARG:HD3	14:W:59:ALA:O	2.16	0.46
14:W:65:HIS:CD2	14:W:67:PHE:HB2	2.51	0.46
1:4:3:DG:H1'	1:4:4:DT:H5'	1.96	0.46
3:6:10:A:H4'	4:M:485:ASP:OD1	2.14	0.46
4:A:166:GLY:O	4:A:167:CYS:SG	2.74	0.46
4:A:269:ILE:HG12	4:A:299:HIS:HB3	1.97	0.46
4:A:463:ILE:HB	4:A:464:PRO:CD	2.42	0.46
4:A:535:THR:HG22	4:A:536:LEU:N	2.30	0.46
4:A:857:ARG:NH1	9:F:139:PRO:CB	2.79	0.46
4:A:1074:GLU:C	4:A:1076:ALA:H	2.24	0.46
4:A:1404:GLU:O	4:A:1407:GLU:HB2	2.16	0.46
5:B:235:SER:OG	5:B:236:HIS:CD2	2.69	0.46
5:B:337:ARG:HA	5:B:337:ARG:HD2	1.77	0.46
5:B:862:GLN:HG2	5:B:963:PHE:HD1	1.80	0.46
5:B:918:ILE:HD12	5:B:935:ARG:HD3	1.98	0.46
6:C:238:ILE:HG22	6:C:243:VAL:HG23	1.98	0.46
8:E:73:PRO:O	8:E:75:MET:N	2.48	0.46
8:E:178:ILE:HG22	8:E:213:ILE:O	2.15	0.46
15:L:55:ILE:O	15:L:56:LEU:HB2	2.15	0.46
4:M:262:LEU:C	4:M:264:PHE:N	2.70	0.46
4:M:698:GLN:HA	12:U:97:MET:O	2.16	0.46
4:M:699:ALA:HB3	4:M:701:LEU:HG	1.94	0.46
4:M:806:ARG:HH12	5:N:729:ILE:CD1	2.28	0.46
4:M:886:ILE:HG13	4:M:943:LEU:CD1	2.46	0.46
4:M:1279:ILE:HA	4:M:1310:GLY:HA3	1.98	0.46
5:N:23:ALA:H	5:N:654:ARG:HB3	1.81	0.46
5:N:39:ARG:HG2	5:N:39:ARG:NH1	2.31	0.46
5:N:227:LYS:HB2	5:N:395:GLN:OE1	2.16	0.46
5:N:233:PRO:HG2	5:N:234:ILE:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:744:HIS:HD2	5:N:746:SER:OG	1.99	0.46
5:N:1029:CYS:O	5:N:1030:LEU:C	2.59	0.46
6:O:22:LEU:HD13	6:O:230:MET:HE3	1.98	0.46
9:R:75:PRO:O	9:R:77:ASP:O	2.33	0.46
9:R:147:SER:HG	9:R:150:GLU:HG3	1.81	0.46
11:T:101:ALA:HB2	11:T:116:TYR:CZ	2.51	0.46
14:W:112:GLN:HG2	14:W:112:GLN:N	2.30	0.46
4:A:18:GLN:O	5:B:1215:ARG:HG2	2.16	0.46
4:A:41:MET:O	4:A:42:ASP:C	2.59	0.46
4:A:75:ASN:O	4:A:76:GLU:HB2	2.15	0.46
4:A:1219:THR:HG21	4:A:1271:ILE:HG13	1.97	0.46
4:A:1280:GLU:O	4:A:1281:ARG:C	2.57	0.46
5:B:37:PHE:HE1	5:B:41:LYS:CD	2.28	0.46
5:B:39:ARG:NH2	5:B:665:GLU:CG	2.78	0.46
5:B:812:LEU:O	5:B:813:LYS:C	2.58	0.46
6:C:92:CYS:C	6:C:94:LYS:N	2.73	0.46
7:D:29:LEU:HD13	10:G:82:PHE:CZ	2.51	0.46
10:G:38:CYS:HB3	10:G:155:SER:HA	1.96	0.46
10:G:99:PHE:HZ	10:G:163:ILE:HD13	1.81	0.46
14:K:111:LEU:O	14:K:112:GLN:CG	2.62	0.46
4:M:317:LYS:O	4:M:318:SER:HB3	2.15	0.46
4:M:320:ARG:HH21	4:M:323:LYS:NZ	2.14	0.46
4:M:364:VAL:O	4:M:364:VAL:CG1	2.64	0.46
4:M:509:LEU:HD23	4:M:509:LEU:HA	1.79	0.46
4:M:920:LEU:C	4:M:920:LEU:CD2	2.89	0.46
4:M:1017:LEU:O	4:M:1018:PHE:C	2.58	0.46
4:M:1208:THR:O	4:M:1209:MET:C	2.59	0.46
4:M:1291:VAL:HG13	4:M:1292:PRO:N	2.30	0.46
4:M:1406:VAL:O	4:M:1407:GLU:C	2.57	0.46
5:N:221:ASN:OD1	5:N:242:SER:HA	2.16	0.46
5:N:237:VAL:CG1	5:N:238:ALA:N	2.79	0.46
5:N:757:PRO:HD3	5:N:983:ARG:NH2	2.31	0.46
5:N:1002:THR:O	5:N:1003:ALA:C	2.59	0.46
5:N:1159:ARG:HE	5:N:1193:GLN:HE21	1.62	0.46
6:O:76:ASP:OD2	6:O:128:ASN:N	2.49	0.46
6:O:99:LEU:HD23	6:O:99:LEU:N	2.30	0.46
7:P:71:LYS:HA	7:P:74:GLN:CB	2.46	0.46
9:R:111:LEU:C	9:R:113:GLY:N	2.60	0.46
10:S:138:THR:CG2	10:S:139:ILE:H	2.05	0.46
13:V:7:CYS:CB	13:V:46:CYS:HB3	2.46	0.46
4:A:244:PRO:CB	4:A:245:PRO:CD	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:244:PRO:HG2	4:A:245:PRO:CD	2.46	0.46
4:A:446:ARG:HB2	4:A:487:MET:SD	2.56	0.46
4:A:498:ARG:O	4:A:499:ALA:C	2.59	0.46
4:A:1118:VAL:HG23	4:A:1118:VAL:O	2.16	0.46
4:A:1130:GLN:O	4:A:1134:ILE:HG13	2.16	0.46
4:A:1265:ASN:C	4:A:1267:MET:H	2.24	0.46
5:B:181:LEU:HD22	5:B:189:LEU:CD2	2.46	0.46
5:B:498:THR:HB	5:B:537:LYS:O	2.16	0.46
5:B:806:THR:C	5:B:808:ALA:N	2.73	0.46
5:B:996:ARG:NH2	6:C:175:ALA:HA	2.31	0.46
5:B:1197:PRO:HG2	5:B:1200:ALA:HB3	1.97	0.46
6:C:26:ASP:O	6:C:27:LEU:C	2.59	0.46
6:C:61:GLU:HA	6:C:64:ALA:HB3	1.98	0.46
6:C:175:ALA:HB3	13:J:43:ARG:HH22	1.81	0.46
9:F:109:VAL:HG12	9:F:110:ASP:N	2.31	0.46
11:H:40:LEU:HD22	11:H:123:MET:CE	2.45	0.46
12:I:8:ARG:O	12:I:10:CYS:N	2.49	0.46
4:M:34:LYS:HZ1	4:M:57:ARG:NH1	2.14	0.46
4:M:67:CYS:O	4:M:68:GLN:HB2	2.15	0.46
4:M:798:GLY:HA2	4:M:815:PHE:HD1	1.80	0.46
4:M:1446:ASP:HB3	4:M:1449:SER:OG	2.16	0.46
5:N:604:ARG:O	5:N:606:LYS:N	2.49	0.46
5:N:1023:VAL:O	5:N:1026:LEU:N	2.49	0.46
6:O:18:VAL:O	6:O:20:PHE:HD2	1.98	0.46
6:O:35:ARG:HH11	14:W:41:THR:CA	2.28	0.46
7:P:7:THR:HG21	7:P:32:GLU:OE2	2.16	0.46
7:P:24:ALA:C	7:P:26:THR:N	2.70	0.46
7:P:144:THR:HG21	10:S:46:LEU:HD13	1.96	0.46
14:W:15:GLY:O	14:W:16:GLU:HG3	2.15	0.46
14:W:55:LYS:HB3	14:W:81:TYR:CE1	2.51	0.46
14:W:59:ALA:HA	14:W:74:ARG:O	2.16	0.46
4:A:92:HIS:HD2	4:A:304:MET:HE1	1.79	0.46
4:A:332:LYS:H	4:A:337:ARG:HB3	1.80	0.46
4:A:455:MET:HE3	5:B:1134:GLU:HG3	1.98	0.46
4:A:456:MET:HB2	4:A:478:TYR:OH	2.16	0.46
4:A:547:LEU:HD22	14:K:58:PHE:CE1	2.51	0.46
4:A:1149:ALA:CB	12:I:47:GLU:HA	2.46	0.46
4:A:1161:THR:HG22	4:A:1163:ILE:HG13	1.97	0.46
6:C:8:VAL:HG12	6:C:9:LYS:H	1.81	0.46
6:C:44:LEU:HD21	6:C:159:ALA:HB1	1.97	0.46
7:D:46:GLU:C	7:D:47:LEU:O	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:D:146:GLN:O	7:D:147:TYR:C	2.59	0.46
9:F:69:LEU:N	9:F:70:LYS:HA	2.31	0.46
9:F:118:LEU:O	9:F:118:LEU:HG	2.15	0.46
10:G:10:ASN:OD1	10:G:71:ASN:HA	2.16	0.46
10:G:14:HIS:HD1	10:G:15:PRO:HD2	1.76	0.46
10:G:22:MET:O	10:G:25:TYR:N	2.49	0.46
12:I:75:CYS:SG	12:I:78:CYS:C	2.99	0.46
15:L:43:THR:C	15:L:45:ALA:H	2.23	0.46
4:M:56:PRO:O	4:M:57:ARG:CG	2.63	0.46
4:M:277:GLU:C	4:M:279:LEU:H	2.24	0.46
4:M:356:ASP:OD2	14:W:65:HIS:HE1	1.98	0.46
4:M:618:GLU:O	4:M:620:LYS:N	2.49	0.46
4:M:794:PRO:C	4:M:796:SER:H	2.24	0.46
4:M:966:ASN:O	4:M:967:ALA:C	2.57	0.46
4:M:1332:PHE:CE1	4:M:1348:LEU:HD13	2.51	0.46
5:N:525:ALA:O	5:N:768:THR:HA	2.14	0.46
5:N:549:THR:N	5:N:628:THR:HG23	2.28	0.46
6:O:70:ILE:HG12	6:O:142:VAL:HG11	1.97	0.46
6:O:239:PRO:O	6:O:241:ASP:N	2.48	0.46
8:Q:14:ARG:O	8:Q:17:ARG:HB3	2.16	0.46
10:S:31:LEU:CD2	10:S:48:VAL:HG21	2.46	0.46
11:T:123:MET:HE1	11:T:142:LEU:HD11	1.97	0.46
12:U:8:ARG:NE	12:U:9:ASP:OD1	2.42	0.46
3:6:5:C:O2'	3:6:6:C:H5'	2.16	0.45
4:A:433:GLU:OE1	5:B:1108:ARG:NH1	2.49	0.45
4:A:577:ILE:HG13	4:A:578:LEU:N	2.31	0.45
4:A:676:MET:O	4:A:679:ILE:N	2.47	0.45
4:A:715:GLU:OE2	4:A:774:ARG:NH1	2.49	0.45
4:A:913:LEU:HD23	4:A:919:ILE:HD12	1.97	0.45
4:A:1162:VAL:O	4:A:1162:VAL:HG12	2.15	0.45
4:A:1168:GLU:O	4:A:1172:LEU:HG	2.16	0.45
4:A:1208:THR:O	4:A:1209:MET:C	2.59	0.45
4:A:1453:TYR:O	4:A:1454:MET:HB3	2.17	0.45
5:B:118:ARG:CG	5:B:204:ILE:HD13	2.47	0.45
5:B:284:ILE:HG12	5:B:324:ILE:HD12	1.97	0.45
5:B:865:LYS:C	5:B:866:TYR:CD1	2.94	0.45
6:C:249:ASP:O	6:C:252:GLN:HB3	2.17	0.45
7:D:33:PHE:CZ	10:G:80:LYS:HE3	2.51	0.45
12:I:4:PHE:CD1	12:I:4:PHE:C	2.94	0.45
12:I:13:MET:O	12:I:14:LEU:HD23	2.16	0.45
15:L:40:LEU:HB3	15:L:41:SER:H	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:35:ILE:HB	4:M:83:HIS:O	2.16	0.45
4:M:62:ASP:HB3	4:M:64:ASN:ND2	2.31	0.45
4:M:71:GLN:O	4:M:73:GLY:N	2.36	0.45
4:M:368:LYS:O	4:M:369:SER:C	2.59	0.45
4:M:718:VAL:O	4:M:721:PHE:HB2	2.16	0.45
4:M:939:ASP:O	4:M:940:ARG:C	2.58	0.45
4:M:1226:VAL:HG13	4:M:1240:CYS:HB3	1.98	0.45
5:N:280:ILE:CD1	5:N:334:ILE:HG12	2.41	0.45
5:N:597:MET:C	5:N:599:THR:N	2.74	0.45
5:N:952:VAL:HG12	5:N:953:LEU:N	2.30	0.45
6:O:88:CYS:SG	6:O:91:HIS:HA	2.57	0.45
8:Q:124:VAL:HG13	8:Q:132:ILE:CB	2.45	0.45
8:Q:161:LYS:HD2	8:Q:195:VAL:HG23	1.99	0.45
4:A:1011:GLN:O	4:A:1015:VAL:HG23	2.16	0.45
4:A:1027:ALA:O	4:A:1028:THR:C	2.59	0.45
4:A:1197:LEU:HD12	4:A:1209:MET:HE1	1.98	0.45
4:A:1222:ASN:O	4:A:1223:ASP:HB3	2.16	0.45
4:A:1260:LEU:O	4:A:1260:LEU:HG	2.16	0.45
4:A:1409:LEU:CD1	5:B:1207:LEU:HD11	2.43	0.45
5:B:295:GLY:O	5:B:299:GLU:HG3	2.17	0.45
5:B:309:GLN:CG	12:I:52:ILE:HD11	2.46	0.45
5:B:372:SER:O	5:B:376:PHE:HD1	1.98	0.45
5:B:897:GLY:O	5:B:898:LEU:HD23	2.16	0.45
5:B:1001:PHE:CD1	5:B:1001:PHE:C	2.93	0.45
6:C:176:ILE:HG22	6:C:177:GLU:O	2.16	0.45
8:E:124:VAL:HG13	8:E:132:ILE:CB	2.45	0.45
11:H:58:THR:HG22	11:H:59:ILE:N	2.31	0.45
11:H:84:ALA:C	11:H:86:ASP:N	2.71	0.45
11:H:95:TYR:HB3	11:H:144:ILE:HB	1.97	0.45
14:K:19:LEU:HD21	14:K:35:PHE:CE2	2.51	0.45
4:M:49:LYS:HZ3	4:M:61:ILE:HG13	1.80	0.45
4:M:96:ILE:O	4:M:97:ALA:C	2.59	0.45
4:M:298:PHE:O	4:M:301:ALA:HB3	2.16	0.45
4:M:500:GLU:OE2	4:M:1438:THR:HG21	2.17	0.45
4:M:639:PRO:HG2	4:M:640:GLN:N	2.32	0.45
4:M:826:ASP:O	4:M:827:THR:C	2.59	0.45
4:M:1005:GLU:O	4:M:1006:ILE:C	2.60	0.45
4:M:1349:TYR:O	4:M:1350:LYS:C	2.59	0.45
5:N:446:LEU:N	5:N:446:LEU:HD23	2.31	0.45
5:N:730:ARG:O	5:N:731:VAL:O	2.33	0.45
5:N:758:PHE:N	5:N:759:PRO:CD	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:769:TYR:C	5:N:771:SER:H	2.24	0.45
5:N:899:ILE:CG2	5:N:949:VAL:HG21	2.46	0.45
5:N:1001:PHE:CD1	5:N:1001:PHE:C	2.94	0.45
5:N:1162:ILE:C	5:N:1171:VAL:HG21	2.40	0.45
6:O:232:VAL:HG21	6:O:244:VAL:CG2	2.42	0.45
7:P:145:MET:O	7:P:149:THR:HB	2.17	0.45
12:U:78:CYS:HB2	12:U:106:CYS:HB3	1.97	0.45
4:A:381:THR:HG21	4:A:383:TYR:CD1	2.52	0.45
4:A:472:LEU:CD1	5:B:835:GLN:CD	2.89	0.45
4:A:676:MET:O	4:A:679:ILE:HB	2.17	0.45
4:A:785:PRO:HG2	4:A:786:HIS:CD2	2.51	0.45
4:A:982:THR:N	4:A:985:ASP:HB2	2.31	0.45
4:A:1193:LEU:HD22	4:A:1260:LEU:HD11	1.97	0.45
4:A:1220:PHE:CD1	4:A:1224:LEU:HD23	2.52	0.45
4:A:1237:ILE:HG22	4:A:1238:ILE:N	2.30	0.45
5:B:115:GLN:HG2	5:B:193:LYS:HB2	1.97	0.45
5:B:525:ALA:O	5:B:768:THR:HA	2.15	0.45
5:B:658:ILE:O	5:B:661:LEU:HB2	2.15	0.45
5:B:658:ILE:CG2	5:B:662:MET:HE2	2.47	0.45
5:B:833:TYR:CZ	14:K:66:PRO:HG3	2.51	0.45
5:B:954:VAL:O	15:L:55:ILE:O	2.33	0.45
5:B:1077:THR:HG22	14:K:44:ASN:ND2	2.31	0.45
5:B:1202:LEU:O	5:B:1203:LEU:C	2.58	0.45
6:C:58:LEU:N	6:C:58:LEU:CD2	2.80	0.45
6:C:99:LEU:HD23	6:C:99:LEU:N	2.31	0.45
8:E:128:PRO:HA	8:E:129:PRO:C	2.42	0.45
11:H:89:LEU:C	11:H:91:ASP:N	2.74	0.45
4:M:313:GLN:O	4:M:314:ALA:HB3	2.16	0.45
4:M:349:ALA:C	5:N:1128:LEU:HD11	2.40	0.45
4:M:418:SER:C	4:M:420:ARG:N	2.74	0.45
4:M:742:ASN:O	4:M:745:GLN:HB2	2.17	0.45
4:M:875:ALA:HB2	4:M:1366:ARG:HD2	1.97	0.45
4:M:1345:ARG:NH1	4:M:1373:ASP:OD1	2.43	0.45
4:M:1400:CYS:O	4:M:1405:THR:HG23	2.17	0.45
4:M:1402:PHE:O	4:M:1403:GLU:HB2	2.17	0.45
5:N:847:ASP:O	5:N:849:GLY:N	2.48	0.45
5:N:908:GLU:O	5:N:909:ASP:O	2.34	0.45
5:N:910:VAL:HG12	5:N:911:ILE:N	2.31	0.45
7:P:59:ILE:O	7:P:60:LYS:C	2.60	0.45
10:S:27:LYS:O	10:S:30:LEU:HB3	2.17	0.45
4:A:366:VAL:CG2	4:A:460:VAL:HG22	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:567:LYS:HE3	11:H:46:LEU:CB	2.41	0.45
4:A:608:ILE:O	4:A:610:GLY:N	2.49	0.45
5:B:37:PHE:CE2	5:B:542:MET:HA	2.50	0.45
5:B:336:ARG:CD	5:B:348:ARG:HD3	2.46	0.45
5:B:1006:ILE:CG2	13:J:45:CYS:HB3	2.46	0.45
10:G:154:VAL:HG12	10:G:155:SER:N	2.30	0.45
14:K:7:PHE:CD1	14:K:7:PHE:C	2.95	0.45
4:M:59:GLY:HA2	4:M:67:CYS:SG	2.55	0.45
4:M:388:LEU:CD2	4:M:432:VAL:HB	2.46	0.45
4:M:391:LEU:O	4:M:392:VAL:C	2.60	0.45
4:M:481:ASP:OD1	4:M:483:ASP:CG	2.60	0.45
4:M:613:ILE:O	4:M:614:PHE:HB3	2.16	0.45
4:M:709:THR:HG22	4:M:710:LEU:N	2.32	0.45
4:M:873:MET:C	4:M:1058:VAL:CG2	2.90	0.45
4:M:1153:TYR:CD2	4:M:1163:ILE:HD11	2.52	0.45
4:M:1280:GLU:O	4:M:1281:ARG:C	2.58	0.45
5:N:33:VAL:HG21	5:N:638:PHE:HZ	1.82	0.45
5:N:371:GLU:CD	5:N:371:GLU:N	2.74	0.45
5:N:821:GLN:HE22	5:N:851:PHE:CA	2.27	0.45
5:N:984:HIS:NE2	5:N:1025:HIS:HA	2.32	0.45
5:N:996:ARG:NH1	6:O:38:ILE:HG23	2.30	0.45
5:N:1033:LYS:CE	5:N:1070:GLU:OE1	2.65	0.45
11:T:95:TYR:HB3	11:T:144:ILE:HB	1.98	0.45
12:U:82:GLU:HB3	12:U:104:LEU:HD12	1.97	0.45
4:A:71:GLN:C	4:A:73:GLY:N	2.70	0.45
4:A:117:GLU:H	4:A:117:GLU:CD	2.24	0.45
4:A:147:VAL:O	4:A:149:GLU:N	2.49	0.45
4:A:265:LYS:CE	4:A:322:VAL:HG13	2.46	0.45
4:A:367:PRO:O	4:A:368:LYS:C	2.58	0.45
4:A:982:THR:H	4:A:985:ASP:HB2	1.81	0.45
5:B:30:SER:HB3	5:B:743:ILE:O	2.17	0.45
5:B:193:LYS:HD3	5:B:787:VAL:HG11	1.97	0.45
5:B:431:TYR:CE2	5:B:447:ALA:HB2	2.52	0.45
5:B:753:ALA:O	5:B:756:ILE:HG13	2.16	0.45
5:B:839:MET:CE	5:B:1010:LEU:HD21	2.46	0.45
5:B:986:GLN:OE1	5:B:986:GLN:HA	2.15	0.45
5:B:1005:GLY:HA2	6:C:176:ILE:O	2.16	0.45
6:C:69:LEU:HB3	13:J:6:ARG:CD	2.47	0.45
7:D:13:ARG:HB2	7:D:17:LYS:NZ	2.31	0.45
7:D:68:ARG:C	7:D:70:PHE:N	2.73	0.45
8:E:90:VAL:HG23	8:E:120:ALA:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G:25:TYR:HE2	10:G:29:LYS:HD2	1.82	0.45
14:K:59:ALA:HA	14:K:74:ARG:O	2.17	0.45
4:M:65:LEU:O	4:M:66:LYS:C	2.59	0.45
4:M:106:VAL:HG13	4:M:112:LYS:C	2.41	0.45
4:M:382:PRO:HD3	4:M:428:TYR:HD2	1.77	0.45
4:M:409:SER:O	4:M:410:GLY:C	2.57	0.45
4:M:545:GLN:C	4:M:547:LEU:N	2.73	0.45
4:M:1115:SER:OG	4:M:1116:LEU:N	2.49	0.45
4:M:1147:THR:HA	4:M:1197:LEU:HD23	1.97	0.45
5:N:34:ILE:O	5:N:35:SER:C	2.60	0.45
5:N:661:LEU:C	5:N:663:ALA:N	2.73	0.45
5:N:764:SER:HB3	5:N:765:PRO:CD	2.46	0.45
5:N:906:SER:O	5:N:907:GLY:O	2.34	0.45
6:O:3:GLU:O	6:O:4:GLU:CG	2.65	0.45
6:O:112:ASN:HB2	6:O:114:TYR:HE1	1.81	0.45
6:O:131:HIS:O	6:O:132:PRO:C	2.59	0.45
6:O:254:LYS:C	6:O:256:ALA:H	2.24	0.45
6:O:263:THR:O	6:O:265:MET:N	2.50	0.45
7:P:188:ALA:N	7:P:208:GLU:OE2	2.50	0.45
9:R:86:THR:HG1	9:R:89:GLU:HG3	1.77	0.45
10:S:14:HIS:ND1	10:S:15:PRO:CD	2.71	0.45
12:U:54:GLU:HB3	12:U:100:PHE:CE2	2.52	0.45
13:V:1:MET:HE2	13:V:60:PHE:HE2	1.81	0.45
4:A:4:GLN:O	4:A:5:GLN:HB2	2.16	0.45
4:A:47:ARG:HH12	4:A:254:GLU:CG	2.30	0.45
4:A:370:ILE:O	4:A:373:THR:N	2.42	0.45
4:A:567:LYS:HD2	4:A:568:PRO:CD	2.38	0.45
4:A:663:SER:HB2	5:B:827:ILE:O	2.16	0.45
4:A:719:VAL:C	4:A:721:PHE:N	2.75	0.45
4:A:932:GLU:OE1	4:A:987:VAL:HG22	2.17	0.45
4:A:1220:PHE:O	4:A:1221:LYS:HB2	2.17	0.45
4:A:1446:ASP:HB3	4:A:1449:SER:OG	2.16	0.45
5:B:806:THR:HB	5:B:809:MET:HG3	1.99	0.45
5:B:1214:PRO:O	5:B:1214:PRO:HG2	2.17	0.45
9:F:125:LEU:O	9:F:125:LEU:CG	2.64	0.45
10:G:13:LEU:O	10:G:67:SER:HA	2.16	0.45
10:G:106:MET:HE2	10:G:106:MET:HB3	1.70	0.45
12:I:56:ALA:O	12:I:57:GLY:C	2.60	0.45
12:I:85:PHE:CD1	12:I:99:LEU:HD13	2.51	0.45
12:I:98:VAL:HG11	12:I:113:ASP:OD1	2.16	0.45
13:J:13:VAL:O	13:J:14:VAL:CG2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:J:48:ARG:HD2	13:J:48:ARG:C	2.41	0.45
4:M:146:MET:HA	4:M:171:GLN:HB2	1.97	0.45
4:M:369:SER:HB2	14:W:2:ASN:OD1	2.17	0.45
4:M:402:ALA:HB1	4:M:433:GLU:O	2.17	0.45
4:M:526:ASP:O	4:M:527:THR:C	2.59	0.45
4:M:666:ILE:HD11	5:N:1067:ARG:O	2.17	0.45
4:M:667:GLY:HA3	6:O:192:TRP:CH2	2.51	0.45
4:M:684:ALA:O	4:M:687:LYS:HB2	2.17	0.45
4:M:695:LYS:C	4:M:697:ALA:N	2.71	0.45
5:N:337:ARG:HA	5:N:337:ARG:HD2	1.76	0.45
5:N:344:LYS:O	5:N:345:LYS:HB2	2.16	0.45
5:N:467:GLY:CA	5:N:475:SER:HB3	2.47	0.45
5:N:865:LYS:C	5:N:866:TYR:CD1	2.95	0.45
5:N:1006:ILE:HD13	13:V:44:TYR:HE2	1.78	0.45
5:N:1135:ARG:O	5:N:1138:MET:N	2.50	0.45
5:N:1147:LEU:HD23	5:N:1151:LEU:HD13	1.98	0.45
6:O:215:GLU:O	6:O:217:ASP:N	2.50	0.45
7:P:27:LEU:HG	7:P:197:SER:HB2	1.98	0.45
7:P:141:LEU:HD12	7:P:141:LEU:HA	1.83	0.45
8:Q:124:VAL:HB	8:Q:125:PRO:CD	2.46	0.45
9:R:118:LEU:O	9:R:118:LEU:HG	2.16	0.45
10:S:13:LEU:O	10:S:67:SER:HA	2.16	0.45
10:S:14:HIS:CD2	10:S:16:SER:CB	2.84	0.45
10:S:18:PHE:HZ	10:S:68:ALA:HB2	1.81	0.45
15:X:55:ILE:O	15:X:56:LEU:HB2	2.16	0.45
3:3:8:G:O2'	3:3:9:G:H5'	2.16	0.45
4:A:18:GLN:HB3	5:B:1215:ARG:HG3	1.99	0.45
4:A:49:LYS:NZ	4:A:61:ILE:CG1	2.78	0.45
4:A:478:TYR:O	4:A:479:ASN:HB3	2.16	0.45
4:A:494:SER:O	4:A:495:GLU:C	2.60	0.45
4:A:666:ILE:HG12	5:B:1030:LEU:HD22	1.99	0.45
4:A:1118:VAL:HG23	4:A:1306:LEU:HB2	1.99	0.45
5:B:980:PHE:HE2	5:B:1094:ARG:CG	2.29	0.45
6:C:123:ASN:ND2	6:C:125:MET:CG	2.78	0.45
6:C:174:ALA:O	6:C:175:ALA:CB	2.65	0.45
9:F:114:GLU:OE2	9:F:119:ARG:HG2	2.17	0.45
10:G:79:PHE:CE2	10:G:105:PRO:HG2	2.51	0.45
12:I:100:PHE:N	12:I:100:PHE:CD1	2.85	0.45
14:K:55:LYS:CB	14:K:81:TYR:CE1	3.00	0.45
4:M:60:SER:C	4:M:61:ILE:HG13	2.42	0.45
4:M:399:HIS:CB	4:M:400:PRO:CD	2.88	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:621:THR:O	4:M:629:LEU:HB2	2.17	0.45
4:M:699:ALA:O	4:M:700:ASN:CB	2.64	0.45
4:M:986:ILE:HD12	4:M:1032:LEU:HD11	1.98	0.45
4:M:1059:HIS:O	4:M:1060:PRO:C	2.56	0.45
4:M:1437:GLY:O	4:M:1438:THR:C	2.59	0.45
5:N:33:VAL:O	5:N:36:ALA:HB3	2.17	0.45
5:N:603:LEU:HB3	5:N:609:ILE:CD1	2.46	0.45
5:N:830:TYR:CE2	5:N:1000:PRO:HD3	2.51	0.45
6:O:83:SER:OG	6:O:160:LYS:HD3	2.17	0.45
7:P:23:ASN:O	10:S:83:LYS:HB2	2.17	0.45
10:S:79:PHE:HZ	10:S:106:MET:CE	2.27	0.45
13:V:36:LEU:O	13:V:37:SER:C	2.58	0.45
2:2:12:DT:H2''	2:2:13:DA:OP2	2.16	0.45
4:A:414:ASP:OD1	4:A:414:ASP:C	2.59	0.45
4:A:605:MET:HE2	4:A:607:ILE:CG1	2.46	0.45
4:A:816:HIS:HE2	5:B:764:SER:H	1.63	0.45
4:A:1004:ASN:O	4:A:1008:GLN:HB2	2.17	0.45
4:A:1297:GLU:H	4:A:1297:GLU:HG3	1.47	0.45
5:B:895:ASP:C	5:B:897:GLY:H	2.24	0.45
5:B:1099:VAL:HG22	5:B:1103:ILE:HD13	1.98	0.45
7:D:64:VAL:O	7:D:66:ARG:N	2.50	0.45
10:G:88:ASP:HB3	10:G:144:ARG:HA	1.99	0.45
4:M:553:VAL:HG13	4:M:648:ASN:HB3	1.98	0.45
4:M:914:GLU:HB2	4:M:979:SER:O	2.17	0.45
4:M:1161:THR:HG22	4:M:1163:ILE:HG13	1.98	0.45
4:M:1206:ASP:O	4:M:1274:ARG:NH1	2.50	0.45
5:N:29:ASP:HB3	5:N:658:ILE:HD13	1.99	0.45
5:N:184:ALA:HB1	5:N:188:ASP:HB3	1.98	0.45
5:N:258:LEU:O	5:N:258:LEU:CG	2.63	0.45
5:N:370:PHE:HE2	5:N:373:ARG:HH11	1.64	0.45
5:N:376:PHE:CE2	5:N:569:TYR:CD2	3.05	0.45
5:N:388:CYS:O	5:N:390:LEU:N	2.50	0.45
5:N:520:GLY:H	5:N:748:ILE:HG22	1.80	0.45
5:N:683:SER:O	5:N:687:GLU:HB2	2.17	0.45
6:O:183:TRP:CE2	6:O:207:CYS:HB3	2.52	0.45
6:O:236:GLY:C	6:O:238:ILE:N	2.72	0.45
6:O:260:LEU:O	6:O:263:THR:HB	2.16	0.45
8:Q:35:VAL:C	8:Q:37:LEU:N	2.75	0.45
11:T:55:LEU:HD22	11:T:144:ILE:CG2	2.47	0.45
11:T:82:PRO:C	11:T:84:ALA:N	2.75	0.45
12:U:100:PHE:N	12:U:100:PHE:HD1	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:W:112:GLN:CG	14:W:112:GLN:N	2.79	0.45
4:A:525:GLN:O	4:A:526:ASP:C	2.59	0.45
4:A:545:GLN:C	4:A:547:LEU:N	2.74	0.45
4:A:547:LEU:HD13	14:K:58:PHE:CD1	2.52	0.45
4:A:600:PRO:C	4:A:602:ASP:H	2.25	0.45
4:A:606:LEU:HB3	4:A:614:PHE:CE2	2.52	0.45
4:A:833:GLU:O	4:A:834:THR:C	2.59	0.45
4:A:894:GLU:C	4:A:896:ARG:N	2.75	0.45
4:A:1410:PHE:HD2	5:B:1212:ILE:HD12	1.82	0.45
5:B:37:PHE:CE1	5:B:41:LYS:CG	2.99	0.45
5:B:597:MET:O	5:B:600:LEU:N	2.46	0.45
5:B:710:LEU:O	5:B:711:GLU:OE2	2.35	0.45
8:E:161:LYS:C	8:E:163:GLU:H	2.25	0.45
11:H:15:VAL:HG22	11:H:26:ILE:HG12	1.99	0.45
14:K:112:GLN:HG2	14:K:112:GLN:N	2.30	0.45
4:M:224:PHE:CE2	4:M:231:PRO:HA	2.52	0.45
4:M:244:PRO:O	4:M:245:PRO:C	2.59	0.45
4:M:388:LEU:HD22	4:M:432:VAL:HG21	1.98	0.45
4:M:901:LEU:N	4:M:926:GLN:HE21	2.08	0.45
4:M:1239:ARG:CB	4:M:1239:ARG:HH11	2.30	0.45
5:N:37:PHE:HE1	5:N:41:LYS:HG3	1.78	0.45
5:N:337:ARG:C	5:N:338:GLY:HA2	2.42	0.45
5:N:343:ILE:CG2	5:N:348:ARG:H	2.29	0.45
5:N:825:VAL:HG12	5:N:826:ALA:N	2.32	0.45
5:N:1001:PHE:CZ	5:N:1073:TYR:HB2	2.50	0.45
5:N:1085:ILE:CG2	5:N:1086:PHE:N	2.80	0.45
5:N:1156:ASP:O	5:N:1157:ALA:O	2.34	0.45
6:O:22:LEU:HD13	6:O:230:MET:CE	2.47	0.45
6:O:74:SER:HB2	6:O:77:ILE:HG12	1.99	0.45
6:O:204:SER:C	6:O:206:ASN:N	2.73	0.45
8:Q:124:VAL:HA	8:Q:132:ILE:HD12	1.99	0.45
11:T:127:GLY:O	11:T:128:ASN:CB	2.65	0.45
13:V:21:TYR:HB2	13:V:39:LEU:HD13	1.99	0.45
14:W:24:ASP:OD1	14:W:26:LYS:N	2.50	0.45
14:W:36:GLU:O	14:W:37:LYS:C	2.60	0.45
3:3:9:G:H4'	5:B:1097:HIS:NE2	2.32	0.45
2:5:10:DA:H2''	2:5:11:DG:OP2	2.17	0.45
3:6:3:G:H2'	3:6:4:A:H8	1.82	0.45
4:A:262:LEU:C	4:A:264:PHE:N	2.72	0.45
4:A:524:VAL:CG1	4:A:525:GLN:H	2.20	0.45
4:A:696:GLU:O	4:A:696:GLU:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:849:MET:HE3	4:A:1061:GLY:C	2.42	0.45
4:A:1339:LEU:HD13	8:E:147:HIS:CD2	2.52	0.45
5:B:378:LEU:HD12	5:B:378:LEU:C	2.42	0.45
5:B:638:PHE:HD2	5:B:690:VAL:HG22	1.82	0.45
5:B:653:VAL:HG22	5:B:689:LEU:HB3	1.99	0.45
5:B:683:SER:O	5:B:687:GLU:HB2	2.16	0.45
5:B:1039:GLY:HA2	13:J:51:LEU:CD2	2.47	0.45
5:B:1076:HIS:CD2	14:K:40:HIS:CE1	3.05	0.45
7:D:220:LEU:O	7:D:221:TYR:HD1	2.00	0.45
8:E:191:LYS:O	8:E:192:ARG:C	2.59	0.45
10:G:4:ILE:O	10:G:4:ILE:HG22	2.16	0.45
10:G:115:MET:CB	10:G:116:PRO:HD2	2.46	0.45
4:M:92:HIS:HD2	4:M:304:MET:CE	2.29	0.45
4:M:103:CYS:SG	4:M:108:MET:HE1	2.57	0.45
4:M:329:LEU:O	4:M:330:LYS:C	2.60	0.45
4:M:355:GLY:N	4:M:482:PHE:CE1	2.86	0.45
4:M:626:ASN:C	4:M:628:GLY:H	2.25	0.45
4:M:1151:GLU:HB3	4:M:1153:TYR:HE1	1.82	0.45
5:N:123:THR:O	5:N:125:SER:N	2.49	0.45
5:N:515:HIS:O	5:N:518:HIS:HB2	2.17	0.45
5:N:806:THR:HG21	5:N:808:ALA:HB3	1.98	0.45
5:N:1034:VAL:O	5:N:1037:LEU:N	2.42	0.45
6:O:100:THR:HG22	6:O:101:LEU:H	1.82	0.45
13:V:7:CYS:SG	13:V:49:MET:HE3	2.57	0.45
13:V:14:VAL:HG12	13:V:50:ILE:HD11	1.98	0.45
4:A:65:LEU:O	4:A:66:LYS:C	2.59	0.44
4:A:224:PHE:CZ	4:A:231:PRO:HG3	2.53	0.44
4:A:253:ASN:HB3	5:B:935:ARG:NH1	2.31	0.44
4:A:506:ALA:HB1	4:A:508:PRO:HD2	1.99	0.44
4:A:701:LEU:HD23	12:I:115:LYS:HE3	1.99	0.44
4:A:890:ASP:H	4:A:1296:GLY:HA3	1.82	0.44
4:A:1243:VAL:HG12	4:A:1244:ARG:N	2.31	0.44
5:B:39:ARG:HG2	5:B:39:ARG:HH11	1.81	0.44
5:B:112:LEU:HD12	5:B:113:TYR:N	2.26	0.44
5:B:221:ASN:OD1	5:B:242:SER:HA	2.18	0.44
5:B:235:SER:HA	5:B:261:ARG:NH1	2.31	0.44
5:B:642:ASP:CA	5:B:649:LYS:HA	2.40	0.44
5:B:899:ILE:HD13	5:B:905:VAL:HG11	1.98	0.44
5:B:1034:VAL:C	5:B:1036:ALA:N	2.75	0.44
8:E:168:TYR:C	8:E:169:ARG:HG3	2.42	0.44
15:L:27:LEU:HD23	15:L:27:LEU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:108:MET:HB3	4:M:210:ILE:CD1	2.46	0.44
4:M:412:ARG:HH22	5:N:1108:ARG:HH12	1.64	0.44
4:M:474:VAL:HG22	4:M:478:TYR:CE1	2.53	0.44
4:M:475:THR:CG2	4:M:476:SER:H	2.29	0.44
4:M:500:GLU:OE2	5:N:1145:SER:N	2.49	0.44
4:M:800:VAL:HG11	4:M:808:LEU:HG	1.99	0.44
4:M:958:VAL:HG22	4:M:1052:GLN:HB3	1.99	0.44
4:M:1146:VAL:HG11	4:M:1207:LEU:HD12	1.99	0.44
4:M:1151:GLU:HA	12:U:44:TYR:O	2.16	0.44
5:N:579:ARG:N	5:N:589:VAL:HG13	2.31	0.44
6:O:44:LEU:CD2	6:O:159:ALA:HB1	2.46	0.44
6:O:241:ASP:OD1	6:O:242:GLN:N	2.44	0.44
6:O:258:ILE:HD12	6:O:258:ILE:N	2.32	0.44
7:P:134:THR:HG22	7:P:135:GLY:H	1.81	0.44
13:V:43:ARG:H	13:V:43:ARG:HG2	1.62	0.44
2:5:18:TT:H5R1	2:5:18:TT:H1'	1.99	0.44
4:A:70:CYS:O	4:A:71:GLN:C	2.60	0.44
4:A:248:PRO:O	4:A:260:ASP:HB2	2.17	0.44
4:A:666:ILE:HD12	4:A:667:GLY:N	2.31	0.44
4:A:809:THR:O	4:A:810:PRO:C	2.58	0.44
4:A:1114:PRO:HB2	4:A:1311:VAL:HG23	1.99	0.44
5:B:235:SER:O	5:B:236:HIS:HD2	2.00	0.44
5:B:245:GLU:C	5:B:246:LYS:HG3	2.43	0.44
5:B:579:ARG:N	5:B:589:VAL:HG13	2.30	0.44
5:B:730:ARG:O	5:B:731:VAL:O	2.34	0.44
5:B:825:VAL:HG13	5:B:826:ALA:N	2.32	0.44
5:B:1001:PHE:HD2	6:C:34:ARG:NH2	2.14	0.44
5:B:1033:LYS:NZ	5:B:1068:GLY:O	2.50	0.44
6:C:105:GLY:HA3	6:C:149:LYS:O	2.16	0.44
10:G:34:VAL:HG11	10:G:74:TYR:CE1	2.52	0.44
10:G:44:TYR:CD2	10:G:105:PRO:HB2	2.52	0.44
10:G:59:GLY:CA	10:G:70:PHE:CD2	3.00	0.44
11:H:41:ASP:OD2	11:H:122:LEU:N	2.47	0.44
11:H:84:ALA:C	11:H:87:ARG:H	2.25	0.44
4:M:7:SER:CB	5:N:1175:LEU:HD22	2.47	0.44
4:M:24:PRO:HD2	4:M:233:TRP:CD1	2.52	0.44
4:M:224:PHE:CE2	4:M:234:MET:HE2	2.53	0.44
4:M:224:PHE:HZ	4:M:234:MET:HE2	1.81	0.44
4:M:506:ALA:O	4:M:509:LEU:HB2	2.17	0.44
4:M:964:ILE:O	4:M:965:GLN:C	2.60	0.44
4:M:1356:ILE:O	4:M:1356:ILE:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1398:MET:HB2	4:M:1426:GLU:OE2	2.17	0.44
5:N:245:GLU:C	5:N:246:LYS:HG3	2.42	0.44
5:N:1067:ARG:HH21	6:O:194:GLU:CD	2.25	0.44
5:N:1135:ARG:O	5:N:1137:CYS:N	2.50	0.44
9:R:89:GLU:HB3	9:R:134:ILE:HD13	1.99	0.44
11:T:84:ALA:HA	11:T:87:ARG:CB	2.37	0.44
12:U:56:ALA:O	12:U:57:GLY:C	2.60	0.44
12:U:77:LYS:O	12:U:79:HIS:N	2.50	0.44
14:W:61:TYR:CD2	14:W:61:TYR:O	2.70	0.44
1:4:1:DA:C2'	1:4:2:DA:O5'	2.66	0.44
4:A:93:VAL:HG21	4:A:301:ALA:O	2.16	0.44
4:A:665:GLY:C	4:A:666:ILE:HD12	2.42	0.44
4:A:920:LEU:HD23	4:A:920:LEU:C	2.42	0.44
4:A:1265:ASN:O	4:A:1267:MET:N	2.50	0.44
4:A:1349:TYR:CA	4:A:1372:VAL:HG21	2.47	0.44
4:A:1410:PHE:C	4:A:1412:ALA:H	2.26	0.44
5:B:332:ASP:OD1	5:B:336:ARG:NE	2.51	0.44
5:B:370:PHE:HE2	5:B:373:ARG:NH1	2.16	0.44
5:B:376:PHE:HE2	5:B:569:TYR:HD2	1.64	0.44
5:B:616:ILE:N	5:B:616:ILE:CD1	2.78	0.44
5:B:762:ASN:OD1	5:B:1024:ALA:HB3	2.17	0.44
5:B:807:ARG:O	5:B:811:TYR:HE1	1.99	0.44
5:B:955:THR:HG23	15:L:54:ARG:O	2.17	0.44
7:D:53:SER:CB	7:D:153:ARG:H	2.31	0.44
10:G:18:PHE:HA	10:G:22:MET:CE	2.47	0.44
10:G:96:GLN:HB3	10:G:121:PHE:CE2	2.53	0.44
4:M:12:ARG:HD2	5:N:1218:THR:HB	1.98	0.44
4:M:90:VAL:HG11	4:M:297:GLN:HA	1.97	0.44
4:M:172:PRO:HB3	4:M:185:TRP:CD2	2.51	0.44
4:M:711:ARG:NH2	12:U:87:GLN:OE1	2.50	0.44
4:M:971:PHE:HE2	4:M:1040:GLN:HG2	1.78	0.44
4:M:1007:ILE:C	4:M:1009:ASN:N	2.75	0.44
4:M:1013:ASP:C	4:M:1015:VAL:H	2.25	0.44
4:M:1325:THR:O	4:M:1325:THR:CG2	2.65	0.44
5:N:47:GLN:O	5:N:173:MET:HE1	2.17	0.44
5:N:128:LEU:HB2	5:N:168:GLY:O	2.18	0.44
5:N:1084:GLN:OE1	6:O:189:THR:CG2	2.65	0.44
6:O:47:ASP:CA	15:X:69:ALA:CB	2.92	0.44
6:O:73:GLN:NE2	6:O:74:SER:H	2.15	0.44
7:P:64:VAL:O	7:P:66:ARG:N	2.51	0.44
8:Q:73:PRO:O	8:Q:75:MET:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:136:ASN:OD1	8:Q:137:GLU:N	2.51	0.44
10:S:3:PHE:CE1	10:S:80:LYS:HE2	2.53	0.44
2:5:24:DG:OP1	5:N:857:ARG:NH2	2.50	0.44
4:A:35:ILE:CD1	4:A:241:VAL:HG21	2.46	0.44
4:A:285:PRO:O	4:A:287:HIS:N	2.50	0.44
4:A:562:THR:HB	11:H:98:TYR:CD2	2.53	0.44
4:A:608:ILE:C	4:A:610:GLY:H	2.25	0.44
4:A:909:ASP:C	4:A:911:SER:H	2.24	0.44
4:A:914:GLU:HB2	4:A:979:SER:O	2.17	0.44
4:A:921:GLY:O	4:A:922:ASP:C	2.61	0.44
4:A:1437:GLY:CA	9:F:88:TYR:CD2	3.01	0.44
4:A:1444:MET:HE1	9:F:135:ARG:CB	2.39	0.44
5:B:910:VAL:HG12	5:B:911:ILE:N	2.32	0.44
5:B:953:LEU:HD23	5:B:965:LYS:H	1.82	0.44
5:B:979:LYS:HG2	5:B:1095:LEU:CD1	2.47	0.44
6:C:55:THR:O	6:C:55:THR:HG22	2.16	0.44
6:C:89:GLU:O	6:C:90:ASP:HB3	2.18	0.44
8:E:30:ILE:HG22	8:E:31:THR:N	2.31	0.44
9:F:123:LYS:O	9:F:124:GLU:C	2.59	0.44
10:G:23:LYS:HG3	10:G:56:ILE:HD12	1.95	0.44
10:G:114:LEU:HG	10:G:162:SER:HB3	1.99	0.44
13:J:1:MET:HE2	13:J:60:PHE:HE2	1.83	0.44
4:M:34:LYS:H	4:M:57:ARG:HH21	1.62	0.44
4:M:172:PRO:HD3	4:M:185:TRP:NE1	2.32	0.44
4:M:241:VAL:O	4:M:241:VAL:HG12	2.16	0.44
4:M:549:MET:SD	4:M:577:ILE:CD1	3.04	0.44
4:M:645:LEU:O	4:M:646:PHE:C	2.60	0.44
4:M:647:GLY:O	4:M:651:LYS:HG3	2.16	0.44
4:M:1013:ASP:O	4:M:1015:VAL:N	2.50	0.44
4:M:1127:ASP:O	4:M:1128:GLN:C	2.60	0.44
5:N:189:LEU:O	5:N:192:LEU:HB2	2.17	0.44
5:N:251:ILE:HG22	5:N:251:ILE:O	2.17	0.44
5:N:298:LEU:HD23	5:N:298:LEU:H	1.82	0.44
5:N:314:LEU:O	5:N:317:CYS:HB3	2.17	0.44
5:N:400:HIS:O	5:N:402:GLY:N	2.51	0.44
5:N:777:ALA:HB1	5:N:1093:GLN:HB3	2.00	0.44
5:N:794:ASN:C	5:N:795:ILE:HD12	2.41	0.44
6:O:209:TYR:CD1	6:O:209:TYR:N	2.85	0.44
10:S:31:LEU:HD22	10:S:48:VAL:HG21	1.99	0.44
12:U:56:ALA:O	12:U:57:GLY:O	2.36	0.44
13:V:32:GLU:O	13:V:33:GLY:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:W:7:PHE:CD1	14:W:7:PHE:C	2.96	0.44
14:W:58:PHE:HB3	14:W:76:GLN:HB3	1.99	0.44
4:A:19:PHE:HB3	4:A:1413:GLY:HA2	1.99	0.44
4:A:404:TYR:HB2	4:A:433:GLU:HB2	1.98	0.44
4:A:901:LEU:HG	4:A:926:GLN:NE2	2.22	0.44
5:B:361:LEU:N	5:B:362:PRO:CD	2.81	0.44
5:B:378:LEU:CD1	5:B:382:ILE:HD11	2.48	0.44
5:B:1099:VAL:C	5:B:1101:ASP:N	2.76	0.44
5:B:1110:PRO:HB2	5:B:1119:VAL:CG2	2.48	0.44
6:C:11:ARG:HD3	6:C:209:TYR:CE2	2.51	0.44
6:C:246:ARG:HA	6:C:249:ASP:HB3	1.99	0.44
8:E:35:VAL:O	8:E:37:LEU:N	2.51	0.44
15:L:43:THR:HG22	15:L:43:THR:O	2.17	0.44
4:M:417:TYR:O	4:M:418:SER:C	2.60	0.44
4:M:888:GLY:O	4:M:940:ARG:NH2	2.50	0.44
5:N:39:ARG:HH21	5:N:665:GLU:CG	2.30	0.44
5:N:654:ARG:N	5:N:657:HIS:HD2	2.04	0.44
6:O:241:ASP:CG	6:O:242:GLN:H	2.25	0.44
9:R:89:GLU:HB3	9:R:134:ILE:CD1	2.46	0.44
13:V:56:LEU:O	13:V:59:LYS:N	2.46	0.44
2:2:10:DA:H2''	2:2:11:DG:OP2	2.17	0.44
4:A:575:LYS:NZ	4:A:615:GLY:H	2.16	0.44
4:A:723:ASN:C	4:A:725:ALA:N	2.71	0.44
4:A:1053:PHE:O	4:A:1055:ARG:N	2.49	0.44
4:A:1315:GLU:C	4:A:1317:MET:H	2.25	0.44
4:A:1347:ALA:O	4:A:1348:LEU:C	2.60	0.44
4:A:1409:LEU:O	4:A:1412:ALA:HB3	2.17	0.44
5:B:113:TYR:CD2	5:B:192:LEU:HD22	2.53	0.44
5:B:123:THR:O	5:B:125:SER:N	2.50	0.44
5:B:180:TYR:CD1	5:B:180:TYR:N	2.81	0.44
5:B:486:TYR:CZ	5:B:1096:ARG:HB3	2.49	0.44
5:B:654:ARG:N	5:B:657:HIS:HD2	2.05	0.44
5:B:763:GLN:HG2	5:B:765:PRO:HD2	1.99	0.44
5:B:842:ASN:ND2	5:B:845:SER:CB	2.78	0.44
5:B:983:ARG:HD2	5:B:1091:TYR:CD2	2.48	0.44
7:D:18:VAL:O	7:D:19:GLU:HB3	2.18	0.44
9:F:86:THR:HG23	9:F:89:GLU:OE1	2.17	0.44
12:I:8:ARG:CG	12:I:34:TYR:HE1	2.18	0.44
12:I:12:ASN:HB3	12:I:13:MET:H	1.56	0.44
4:M:443:LEU:O	4:M:489:LEU:HD12	2.17	0.44
4:M:784:LEU:HB3	4:M:785:PRO:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:845:LEU:HD22	4:M:1374:VAL:HG21	2.00	0.44
4:M:1120:LEU:CD1	4:M:1304:TRP:O	2.65	0.44
5:N:54:PHE:O	5:N:58:THR:HB	2.17	0.44
5:N:168:GLY:HA2	5:N:454:THR:OG1	2.18	0.44
5:N:219:ALA:HB2	5:N:405:ARG:NH1	2.33	0.44
5:N:744:HIS:HD2	5:N:746:SER:CB	2.30	0.44
5:N:812:LEU:O	5:N:813:LYS:C	2.59	0.44
5:N:859:TYR:CD1	5:N:859:TYR:N	2.86	0.44
5:N:899:ILE:HD13	5:N:905:VAL:HG11	1.99	0.44
5:N:1187:ASN:O	5:N:1188:LYS:CB	2.52	0.44
8:Q:42:PHE:O	8:Q:43:LYS:C	2.60	0.44
2:2:20:DC:H4'	4:A:447:GLN:CD	2.41	0.44
4:A:34:LYS:N	4:A:57:ARG:NH2	2.62	0.44
4:A:262:LEU:C	4:A:264:PHE:H	2.25	0.44
4:A:399:HIS:CG	4:A:400:PRO:N	2.82	0.44
4:A:767:GLN:HE21	4:A:774:ARG:HB3	1.83	0.44
4:A:849:MET:HE1	4:A:1061:GLY:HA2	2.00	0.44
5:B:559:SER:HA	5:B:563:MET:HB3	1.99	0.44
5:B:603:LEU:HB3	5:B:609:ILE:HG13	1.99	0.44
6:C:80:LEU:HD11	6:C:95:CYS:C	2.43	0.44
7:D:187:THR:HG22	7:D:188:ALA:H	1.82	0.44
7:D:192:LYS:HE3	7:D:204:ASP:OD1	2.17	0.44
11:H:127:GLY:O	11:H:128:ASN:CB	2.66	0.44
4:M:349:ALA:HB1	4:M:370:ILE:HD13	2.00	0.44
4:M:579:SER:C	4:M:581:ALA:N	2.75	0.44
4:M:826:ASP:HB2	4:M:830:LYS:HD3	2.00	0.44
4:M:939:ASP:OD1	4:M:1023:ARG:NH1	2.51	0.44
4:M:1074:GLU:N	4:M:1075:PRO:HD2	2.32	0.44
4:M:1118:VAL:O	4:M:1305:VAL:HG13	2.18	0.44
5:N:597:MET:O	5:N:600:LEU:N	2.47	0.44
5:N:708:GLU:O	5:N:709:ASP:C	2.61	0.44
5:N:763:GLN:O	5:N:764:SER:C	2.60	0.44
5:N:990:ILE:CG2	5:N:991:GLY:N	2.81	0.44
6:O:105:GLY:HA3	6:O:149:LYS:O	2.17	0.44
6:O:221:TYR:C	6:O:223:ALA:H	2.26	0.44
10:S:39:THR:O	10:S:43:GLY:HA2	2.17	0.44
10:S:83:LYS:HE2	10:S:150:CYS:H	1.83	0.44
11:T:11:GLN:C	11:T:28:ALA:HB1	2.43	0.44
11:T:12:VAL:HA	11:T:28:ALA:HB2	1.99	0.44
13:V:57:ILE:HA	13:V:60:PHE:CD2	2.48	0.44
4:A:250:ILE:O	4:A:258:GLY:HA3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:567:LYS:HG3	4:A:568:PRO:CD	2.45	0.44
4:A:1205:LYS:O	4:A:1206:ASP:C	2.61	0.44
5:B:34:ILE:O	5:B:37:PHE:N	2.51	0.44
5:B:558:LEU:C	5:B:560:GLU:N	2.74	0.44
5:B:802:PRO:HB3	5:B:1091:TYR:CD2	2.53	0.44
5:B:936:ASP:OD1	5:B:937:ALA:N	2.50	0.44
8:E:147:HIS:O	8:E:148:GLU:C	2.60	0.44
8:E:153:HIS:C	8:E:154:ILE:HG13	2.43	0.44
4:M:244:PRO:CB	4:M:245:PRO:CD	2.95	0.44
4:M:299:HIS:C	4:M:301:ALA:N	2.74	0.44
4:M:723:ASN:C	4:M:725:ALA:N	2.70	0.44
4:M:1116:LEU:CB	4:M:1308:THR:HG21	2.46	0.44
4:M:1315:GLU:C	4:M:1317:MET:H	2.24	0.44
5:N:460:ALA:C	5:N:462:ALA:H	2.26	0.44
5:N:798:TYR:CE2	6:O:62:PHE:HE2	2.36	0.44
5:N:860:MET:CG	5:N:861:ASP:N	2.80	0.44
5:N:1130:PHE:HZ	5:N:1138:MET:HG2	1.83	0.44
6:O:168:ALA:C	6:O:170:TRP:N	2.73	0.44
10:S:112:LYS:NZ	10:S:120:THR:HA	2.33	0.44
10:S:115:MET:CB	10:S:116:PRO:CD	2.96	0.44
13:V:53:HIS:NE2	13:V:55:ASP:HA	2.33	0.44
13:V:57:ILE:HG23	13:V:58:GLU:N	2.32	0.44
14:W:78:THR:O	14:W:81:TYR:HB3	2.18	0.44
15:X:27:LEU:N	15:X:27:LEU:HD23	2.33	0.44
15:X:43:THR:O	15:X:43:THR:HG22	2.17	0.44
2:2:21:DC:H2'	2:2:22:BRU:BR	2.73	0.44
4:A:98:LYS:O	4:A:100:LYS:N	2.50	0.44
4:A:106:VAL:HG13	4:A:112:LYS:C	2.42	0.44
4:A:1097:GLY:O	4:A:1098:VAL:C	2.61	0.44
4:A:1199:ARG:O	4:A:1202:MET:HB2	2.18	0.44
4:A:1431:GLY:HA3	5:B:1152:MET:SD	2.58	0.44
5:B:273:LEU:HD12	5:B:280:ILE:HD12	2.00	0.44
5:B:310:MET:O	5:B:313:MET:HB2	2.18	0.44
10:G:49:LEU:HD21	10:G:77:VAL:HG23	2.00	0.44
13:J:41:LEU:N	13:J:41:LEU:HD23	2.32	0.44
4:M:91:PHE:HB2	4:M:297:GLN:NE2	2.33	0.44
4:M:507:VAL:HG13	4:M:521:MET:HE1	1.99	0.44
4:M:535:THR:CG2	4:M:575:LYS:HE2	2.47	0.44
4:M:672:ASP:O	4:M:673:GLY:C	2.60	0.44
4:M:877:HIS:C	4:M:878:ILE:HG13	2.43	0.44
4:M:901:LEU:H	4:M:926:GLN:CD	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1227:ILE:CG2	4:M:1228:TRP:N	2.80	0.44
5:N:242:SER:HB2	5:N:362:PRO:HG2	1.99	0.44
5:N:259:TYR:HD1	5:N:259:TYR:N	2.15	0.44
5:N:616:ILE:N	5:N:616:ILE:CD1	2.77	0.44
6:O:104:PHE:HD2	6:O:105:GLY:H	1.64	0.44
4:A:7:SER:CB	5:B:1175:LEU:HD22	2.48	0.43
4:A:374:LEU:HD13	4:A:491:VAL:CG2	2.48	0.43
4:A:452:LYS:HE2	4:A:452:LYS:HB3	1.79	0.43
4:A:472:LEU:O	4:A:475:THR:CB	2.63	0.43
4:A:527:THR:O	4:A:653:VAL:HG11	2.18	0.43
4:A:845:LEU:O	4:A:846:GLU:O	2.35	0.43
4:A:886:ILE:HG13	4:A:943:LEU:CD1	2.47	0.43
5:B:294:ASP:C	5:B:296:GLU:H	2.25	0.43
5:B:460:ALA:C	5:B:462:ALA:H	2.26	0.43
5:B:899:ILE:HG21	5:B:949:VAL:HG21	1.99	0.43
5:B:1068:GLY:O	5:B:1069:PHE:C	2.61	0.43
6:C:86:CYS:O	6:C:88:CYS:N	2.51	0.43
6:C:100:THR:HG22	6:C:101:LEU:H	1.82	0.43
11:H:31:THR:O	11:H:31:THR:HG22	2.17	0.43
11:H:83:GLN:C	11:H:85:GLY:N	2.75	0.43
12:I:69:PRO:HB2	12:I:85:PHE:CE2	2.53	0.43
13:J:48:ARG:HE	13:J:49:MET:HE2	1.83	0.43
14:K:78:THR:O	14:K:81:TYR:HB3	2.18	0.43
4:M:452:LYS:HE2	4:M:452:LYS:HB3	1.84	0.43
4:M:907:THR:HG22	4:M:908:LEU:N	2.31	0.43
4:M:1036:ARG:HH11	4:M:1036:ARG:CG	2.28	0.43
4:M:1215:ARG:HD2	4:M:1215:ARG:HA	1.75	0.43
4:M:1327:ILE:HG22	8:Q:147:HIS:HE1	1.82	0.43
4:M:1385:THR:O	4:M:1388:GLY:N	2.49	0.43
5:N:309:GLN:CG	12:U:52:ILE:HD11	2.47	0.43
5:N:449:ASN:O	5:N:451:LYS:N	2.51	0.43
5:N:800:GLN:CB	13:V:52:THR:HG22	2.47	0.43
5:N:1081:LEU:HD12	5:N:1085:ILE:HD11	2.00	0.43
6:O:256:ALA:C	6:O:258:ILE:N	2.76	0.43
7:P:18:VAL:O	7:P:19:GLU:HB3	2.18	0.43
8:Q:60:PHE:CE2	8:Q:80:VAL:HB	2.52	0.43
12:U:51:ASN:O	12:U:54:GLU:HG3	2.17	0.43
13:V:3:VAL:HG21	13:V:18:TRP:CG	2.53	0.43
15:X:58:LYS:O	15:X:59:ALA:O	2.35	0.43
4:A:23:SER:CB	4:A:233:TRP:NE1	2.80	0.43
4:A:93:VAL:CG1	4:A:301:ALA:HB1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:114:LEU:O	4:A:115:LEU:HG	2.18	0.43
4:A:699:ALA:HB2	12:I:114:GLN:CD	2.43	0.43
4:A:873:MET:HG2	4:A:957:PRO:HB3	2.00	0.43
4:A:1059:HIS:CE1	9:F:87:LYS:H	2.36	0.43
5:B:222:ILE:O	5:B:240:ILE:HA	2.18	0.43
5:B:336:ARG:NH2	5:B:345:LYS:CE	2.75	0.43
5:B:900:ALA:HB3	15:L:61:THR:OG1	2.18	0.43
5:B:1074:ASN:OD1	5:B:1074:ASN:C	2.60	0.43
6:C:8:VAL:HG12	6:C:9:LYS:N	2.33	0.43
6:C:62:PHE:O	6:C:66:ARG:HG3	2.17	0.43
6:C:187:LYS:C	6:C:189:THR:H	2.26	0.43
7:D:119:ARG:HG2	7:D:120:GLU:N	2.32	0.43
7:D:177:VAL:O	7:D:177:VAL:HG12	2.17	0.43
9:F:99:LEU:HD12	9:F:99:LEU:O	2.18	0.43
9:F:147:SER:O	9:F:148:VAL:C	2.61	0.43
11:H:24:CYS:HB2	11:H:44:VAL:HG21	1.99	0.43
14:K:88:LYS:O	14:K:89:ASN:C	2.61	0.43
4:M:449:SER:O	5:N:1133:MET:HB3	2.19	0.43
4:M:546:VAL:HG21	4:M:572:TRP:HB2	2.00	0.43
4:M:562:THR:HB	11:T:98:TYR:CD2	2.52	0.43
4:M:701:LEU:HD23	12:U:115:LYS:HE3	1.99	0.43
4:M:728:LYS:HA	4:M:731:ARG:HB2	2.00	0.43
4:M:1397:LEU:HB2	4:M:1426:GLU:OE1	2.18	0.43
5:N:96:TYR:HE1	5:N:131:ASP:OD2	2.00	0.43
5:N:293:PRO:HG2	5:N:296:GLU:HB2	2.00	0.43
5:N:597:MET:O	5:N:599:THR:N	2.51	0.43
5:N:707:PRO:O	5:N:711:GLU:HG3	2.18	0.43
5:N:957:ASN:O	5:N:960:GLY:N	2.50	0.43
6:O:31:ASN:O	6:O:34:ARG:HB3	2.18	0.43
6:O:74:SER:HB2	6:O:77:ILE:CG1	2.47	0.43
7:P:46:GLU:C	7:P:47:LEU:O	2.57	0.43
8:Q:92:THR:O	8:Q:92:THR:HG22	2.18	0.43
8:Q:177:ARG:HG2	8:Q:213:ILE:HG22	1.99	0.43
10:S:80:LYS:O	10:S:82:PHE:CE1	2.70	0.43
2:2:12:DT:H1'	2:2:13:DA:H5'	1.99	0.43
2:5:15:DT:C2'	2:5:16:DT:H71	2.45	0.43
4:A:115:LEU:O	4:A:122:MET:HE2	2.19	0.43
4:A:263:THR:HG22	4:A:263:THR:O	2.17	0.43
4:A:688:LYS:C	4:A:690:VAL:N	2.76	0.43
4:A:894:GLU:C	4:A:896:ARG:H	2.26	0.43
4:A:1118:VAL:O	4:A:1305:VAL:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:371:GLU:CD	5:B:371:GLU:H	2.26	0.43
5:B:681:TRP:O	5:B:682:SER:C	2.60	0.43
5:B:802:PRO:HA	5:B:822:ASN:HD21	1.83	0.43
5:B:834:ASN:CA	5:B:838:SER:O	2.66	0.43
5:B:978:ASP:O	5:B:989:THR:HB	2.18	0.43
6:C:70:ILE:O	6:C:70:ILE:HG22	2.17	0.43
7:D:13:ARG:C	7:D:17:LYS:HZ3	2.25	0.43
8:E:90:VAL:O	8:E:90:VAL:HG22	2.18	0.43
8:E:114:ASN:O	8:E:115:ASN:CB	2.63	0.43
8:E:131:THR:HG21	8:E:191:LYS:NZ	2.34	0.43
11:H:43:ASN:OD1	11:H:46:LEU:HG	2.18	0.43
14:K:45:LEU:C	14:K:47:ARG:H	2.25	0.43
14:K:55:LYS:CB	14:K:81:TYR:HE1	2.31	0.43
14:K:82:ASP:OD1	14:K:84:LYS:N	2.47	0.43
15:L:30:ILE:HD11	15:L:59:ALA:HB2	2.00	0.43
15:L:40:LEU:HD22	15:L:44:ASP:CB	2.47	0.43
15:L:52:GLY:O	15:L:53:HIS:C	2.61	0.43
4:M:325:ILE:O	4:M:326:ARG:C	2.62	0.43
4:M:701:LEU:HD23	12:U:115:LYS:HG3	1.99	0.43
4:M:817:ALA:HA	5:N:764:SER:OG	2.18	0.43
4:M:890:ASP:H	4:M:1296:GLY:HA3	1.83	0.43
4:M:1451:VAL:C	4:M:1453:TYR:N	2.76	0.43
5:N:283:VAL:O	5:N:284:ILE:C	2.59	0.43
5:N:372:SER:O	5:N:376:PHE:HD1	2.01	0.43
5:N:387:LEU:O	5:N:392:ARG:HB2	2.18	0.43
5:N:900:ALA:HB3	15:X:61:THR:OG1	2.18	0.43
6:O:22:LEU:CD2	6:O:25:VAL:HG21	2.48	0.43
7:P:29:LEU:HD22	10:S:82:PHE:CD2	2.53	0.43
7:P:192:LYS:NZ	7:P:192:LYS:CB	2.81	0.43
10:S:20:PRO:CD	10:S:21:ARG:H	2.31	0.43
11:T:62:SER:C	11:T:64:ASN:N	2.76	0.43
11:T:113:ALA:HB1	11:T:125:LEU:O	2.18	0.43
15:X:43:THR:C	15:X:45:ALA:H	2.25	0.43
4:A:47:ARG:O	4:A:48:ALA:HB2	2.18	0.43
4:A:49:LYS:HZ1	4:A:61:ILE:CG1	2.29	0.43
4:A:53:LEU:CD2	4:A:54:ASN:N	2.55	0.43
4:A:77:CYS:O	4:A:78:PRO:O	2.37	0.43
4:A:78:PRO:HA	5:B:1201:LYS:NZ	2.33	0.43
4:A:89:PRO:HB3	4:A:208:LEU:HD12	2.00	0.43
4:A:365:GLY:O	4:A:468:PHE:HA	2.19	0.43
4:A:601:LYS:HB2	4:A:603:ASN:HD21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:767:GLN:HA	4:A:799:PHE:HA	1.99	0.43
4:A:825:ILE:O	4:A:826:ASP:C	2.61	0.43
4:A:857:ARG:HD3	4:A:861:GLY:O	2.18	0.43
4:A:867:ILE:CG2	4:A:872:GLY:N	2.81	0.43
4:A:1260:LEU:O	4:A:1260:LEU:CG	2.65	0.43
4:A:1365:TYR:O	4:A:1367:HIS:N	2.50	0.43
4:A:1401:SER:O	4:A:1402:PHE:CB	2.67	0.43
5:B:603:LEU:HB3	5:B:609:ILE:CD1	2.48	0.43
5:B:708:GLU:O	5:B:709:ASP:C	2.61	0.43
5:B:1013:ASN:OD1	5:B:1015:HIS:N	2.39	0.43
6:C:193:TYR:HD2	6:C:197:SER:HB3	1.83	0.43
7:D:167:LEU:HB3	7:D:177:VAL:HG13	2.00	0.43
8:E:197:LYS:HE2	8:E:199:ILE:HD11	2.00	0.43
8:E:198:ILE:HD11	8:E:212:ARG:CG	2.40	0.43
11:H:10:PHE:CE1	11:H:57:VAL:HB	2.53	0.43
13:J:43:ARG:H	13:J:43:ARG:HG2	1.65	0.43
4:M:92:HIS:O	4:M:93:VAL:C	2.61	0.43
4:M:679:ILE:O	4:M:682:THR:N	2.51	0.43
4:M:821:ARG:HD2	4:M:825:ILE:HD11	2.01	0.43
4:M:862:ASN:O	4:M:864:ILE:HG13	2.18	0.43
4:M:1066:VAL:O	4:M:1070:GLN:HG3	2.18	0.43
4:M:1150:SER:HA	4:M:1195:LEU:HD23	1.99	0.43
4:M:1315:GLU:C	4:M:1317:MET:N	2.76	0.43
4:M:1409:LEU:HD23	4:M:1409:LEU:HA	1.83	0.43
5:N:295:GLY:O	5:N:299:GLU:HG3	2.18	0.43
5:N:333:PHE:O	5:N:334:ILE:C	2.61	0.43
5:N:936:ASP:OD1	5:N:937:ALA:N	2.52	0.43
7:P:170:THR:HG21	7:P:172:LEU:CD1	2.48	0.43
10:S:1:MET:O	10:S:3:PHE:HD1	1.99	0.43
11:T:80:ARG:HA	11:T:81:PRO:HD3	1.72	0.43
14:W:90:ALA:O	14:W:94:ILE:HG13	2.19	0.43
4:A:113:LEU:HG	4:A:218:ASP:OD1	2.18	0.43
4:A:573:SER:O	4:A:576:GLN:HB2	2.18	0.43
4:A:630:ILE:O	4:A:631:HIS:C	2.62	0.43
4:A:852:TYR:HA	4:A:1060:PRO:HB3	2.00	0.43
4:A:868:TYR:HE1	4:A:1064:VAL:HG11	1.75	0.43
4:A:1215:ARG:HA	4:A:1218:GLN:HG2	1.99	0.43
4:A:1305:VAL:CG1	4:A:1306:LEU:N	2.81	0.43
4:A:1412:ALA:HA	4:A:1417:GLU:OE2	2.19	0.43
4:A:1450:LEU:HD11	9:F:108:PHE:CZ	2.53	0.43
5:B:235:SER:C	5:B:236:HIS:CD2	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:487:THR:O	5:B:488:TYR:C	2.61	0.43
5:B:583:ASN:HD21	5:B:628:THR:HB	1.83	0.43
5:B:1065:GLN:HE21	5:B:1066:SER:N	2.15	0.43
5:B:1167:GLY:O	5:B:1215:ARG:HA	2.19	0.43
6:C:184:ASN:ND2	6:C:187:LYS:HA	2.34	0.43
8:E:46:TYR:CE2	8:E:58:MET:HA	2.53	0.43
10:G:109:PHE:O	10:G:160:ILE:HA	2.18	0.43
11:H:95:TYR:HE2	11:H:97:MET:CG	2.32	0.43
11:H:128:ASN:O	11:H:128:ASN:OD1	2.36	0.43
4:M:49:LYS:NZ	4:M:60:SER:HA	2.34	0.43
4:M:58:LEU:HD11	4:M:243:PRO:HB2	2.01	0.43
4:M:122:MET:O	4:M:123:ARG:C	2.62	0.43
4:M:390:GLN:O	4:M:391:LEU:C	2.60	0.43
4:M:783:THR:CG2	4:M:815:PHE:CE2	3.02	0.43
4:M:907:THR:HG22	4:M:908:LEU:O	2.18	0.43
4:M:1053:PHE:O	4:M:1055:ARG:N	2.51	0.43
4:M:1171:GLN:HA	4:M:1174:PHE:HD1	1.81	0.43
4:M:1199:ARG:O	4:M:1202:MET:HB2	2.18	0.43
4:M:1220:PHE:O	4:M:1221:LYS:HB2	2.18	0.43
5:N:824:ILE:CG2	5:N:1087:PHE:CE2	2.90	0.43
5:N:1024:ALA:O	5:N:1025:HIS:C	2.59	0.43
5:N:1155:SER:OG	5:N:1156:ASP:N	2.51	0.43
12:U:75:CYS:SG	12:U:78:CYS:C	3.02	0.43
13:V:2:ILE:CG2	13:V:3:VAL:N	2.80	0.43
4:A:116:ASP:C	4:A:118:HIS:H	2.26	0.43
4:A:339:ASN:O	4:A:343:LYS:HG2	2.18	0.43
4:A:344:ARG:C	4:A:345:VAL:CG1	2.92	0.43
4:A:466:SER:HB3	5:B:1103:ILE:HG12	2.00	0.43
4:A:579:SER:C	4:A:581:ALA:N	2.75	0.43
4:A:639:PRO:CG	4:A:640:GLN:N	2.82	0.43
4:A:1027:ALA:O	4:A:1031:VAL:HG23	2.19	0.43
4:A:1227:ILE:CG2	4:A:1228:TRP:N	2.81	0.43
4:A:1343:ALA:HB2	8:E:150:VAL:CG2	2.45	0.43
4:A:1444:MET:O	9:F:133:VAL:N	2.49	0.43
5:B:39:ARG:HG2	5:B:39:ARG:NH1	2.33	0.43
5:B:95:ILE:HG13	5:B:130:VAL:CG2	2.49	0.43
5:B:193:LYS:NZ	15:L:32:ALA:HB1	2.33	0.43
5:B:276:ILE:HD13	5:B:334:ILE:HG23	2.01	0.43
5:B:483:LEU:CD1	5:B:491:THR:HG23	2.37	0.43
5:B:558:LEU:O	5:B:561:TRP:N	2.50	0.43
5:B:618:ASP:O	5:B:619:ILE:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:661:LEU:C	5:B:663:ALA:N	2.76	0.43
5:B:903:VAL:HG12	5:B:904:ARG:N	2.34	0.43
7:D:7:THR:HG21	7:D:32:GLU:OE2	2.19	0.43
9:F:88:TYR:CD1	9:F:88:TYR:N	2.85	0.43
11:H:83:GLN:O	11:H:85:GLY:N	2.52	0.43
11:H:95:TYR:CE2	11:H:97:MET:CG	3.02	0.43
12:I:55:THR:HG22	12:I:55:THR:O	2.18	0.43
13:J:53:HIS:NE2	13:J:55:ASP:HA	2.34	0.43
14:K:65:HIS:CD2	14:K:65:HIS:C	2.97	0.43
15:L:29:TYR:CD2	15:L:29:TYR:N	2.85	0.43
4:M:41:MET:O	4:M:42:ASP:C	2.61	0.43
4:M:61:ILE:HG22	4:M:62:ASP:N	2.28	0.43
4:M:351:THR:CG2	5:N:1103:ILE:HD12	2.48	0.43
4:M:547:LEU:HD13	14:W:58:PHE:CD1	2.53	0.43
4:M:687:LYS:O	4:M:690:VAL:HB	2.19	0.43
4:M:738:LYS:H	4:M:738:LYS:HG3	1.56	0.43
4:M:962:ARG:O	4:M:963:ILE:C	2.59	0.43
4:M:1219:THR:HG21	4:M:1271:ILE:HG13	1.99	0.43
4:M:1342:GLU:HG3	8:Q:198:ILE:HD13	2.00	0.43
5:N:339:THR:O	5:N:339:THR:CG2	2.66	0.43
5:N:1017:ILE:HG22	5:N:1018:PRO:N	2.33	0.43
6:O:66:ARG:O	6:O:67:LEU:C	2.62	0.43
6:O:123:ASN:ND2	6:O:125:MET:SD	2.92	0.43
6:O:246:ARG:HA	6:O:249:ASP:HB3	1.99	0.43
12:U:8:ARG:O	12:U:10:CYS:N	2.52	0.43
12:U:69:PRO:HG2	12:U:85:PHE:CE2	2.53	0.43
2:2:26:DC:H1'	2:2:27:DA:H5'	2.01	0.43
4:A:224:PHE:CE2	4:A:231:PRO:HA	2.54	0.43
4:A:666:ILE:CD1	4:A:667:GLY:N	2.82	0.43
4:A:672:ASP:O	4:A:673:GLY:C	2.61	0.43
4:A:845:LEU:HD22	4:A:1374:VAL:HG21	2.00	0.43
5:B:294:ASP:O	5:B:296:GLU:N	2.48	0.43
5:B:358:LYS:HA	5:B:366:GLN:HB3	2.01	0.43
5:B:591:ARG:O	5:B:593:PRO:HD3	2.19	0.43
5:B:604:ARG:O	5:B:606:LYS:N	2.52	0.43
5:B:792:MET:HE2	5:B:857:ARG:NH2	2.33	0.43
5:B:1216:LEU:N	5:B:1216:LEU:HD23	2.34	0.43
6:C:213:PRO:O	6:C:214:ASN:CB	2.65	0.43
7:D:176:GLU:HG2	7:D:197:SER:OG	2.19	0.43
8:E:136:ASN:OD1	8:E:137:GLU:N	2.52	0.43
8:E:153:HIS:O	8:E:154:ILE:CG1	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G:87:VAL:CG2	10:G:103:VAL:HG21	2.48	0.43
4:M:34:LYS:HD3	4:M:34:LYS:N	2.34	0.43
4:M:244:PRO:HG2	4:M:245:PRO:CD	2.47	0.43
4:M:940:ARG:HG2	4:M:940:ARG:HH11	1.84	0.43
4:M:1116:LEU:HB3	4:M:1308:THR:CG2	2.49	0.43
5:N:30:SER:HB3	5:N:743:ILE:O	2.19	0.43
5:N:258:LEU:HB2	5:N:385:LEU:HD21	2.01	0.43
5:N:683:SER:C	5:N:685:LEU:N	2.77	0.43
5:N:1010:LEU:HD12	5:N:1010:LEU:HA	1.78	0.43
5:N:1029:CYS:SG	5:N:1086:PHE:CE2	3.11	0.43
5:N:1060:ARG:C	5:N:1062:HIS:N	2.77	0.43
5:N:1074:ASN:HB2	5:N:1081:LEU:HD21	1.99	0.43
5:N:1095:LEU:H	5:N:1095:LEU:CD1	2.23	0.43
5:N:1121:GLY:C	5:N:1123:SER:N	2.73	0.43
6:O:8:VAL:HG12	6:O:9:LYS:N	2.34	0.43
6:O:27:LEU:HD13	6:O:228:PHE:HE2	1.83	0.43
6:O:226:ASP:O	6:O:227:THR:CB	2.60	0.43
7:P:151:PHE:N	7:P:151:PHE:CD1	2.86	0.43
7:P:153:ARG:HH22	7:P:184:ALA:HA	1.82	0.43
11:T:82:PRO:O	11:T:83:GLN:HB2	2.19	0.43
1:1:1:DA:C1'	1:1:2:DA:C5'	2.90	0.43
4:A:244:PRO:HG2	4:A:245:PRO:HD3	2.00	0.43
4:A:464:PRO:HG2	4:A:465:TYR:CD1	2.54	0.43
4:A:650:GLN:HB3	4:A:654:ASN:HD21	1.84	0.43
4:A:679:ILE:O	4:A:682:THR:N	2.50	0.43
4:A:767:GLN:HB2	4:A:799:PHE:HD1	1.82	0.43
4:A:855:THR:HG23	4:A:857:ARG:CG	2.45	0.43
5:B:337:ARG:C	5:B:338:GLY:HA2	2.44	0.43
5:B:343:ILE:HB	5:B:348:ARG:HG3	1.98	0.43
5:B:769:TYR:C	5:B:771:SER:H	2.26	0.43
5:B:862:GLN:CG	5:B:963:PHE:HD1	2.32	0.43
5:B:995:ARG:O	5:B:996:ARG:C	2.62	0.43
5:B:1065:GLN:NE2	5:B:1067:ARG:HG2	2.34	0.43
5:B:1156:ASP:HB3	5:B:1197:PRO:HA	2.01	0.43
7:D:195:ILE:O	7:D:197:SER:N	2.51	0.43
8:E:35:VAL:C	8:E:37:LEU:N	2.77	0.43
8:E:61:GLN:HG2	8:E:62:ALA:N	2.33	0.43
4:M:133:LYS:O	4:M:134:ARG:C	2.60	0.43
4:M:264:PHE:O	4:M:267:ALA:N	2.52	0.43
4:M:269:ILE:HG12	4:M:299:HIS:HB3	2.00	0.43
4:M:470:LEU:HD21	4:M:482:PHE:HE2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:618:GLU:O	4:M:619:LYS:C	2.61	0.43
4:M:874:ASP:O	4:M:875:ALA:C	2.61	0.43
4:M:1237:ILE:CG2	4:M:1238:ILE:N	2.81	0.43
4:M:1437:GLY:C	4:M:1439:GLY:N	2.75	0.43
5:N:18:PHE:N	5:N:18:PHE:CD1	2.86	0.43
5:N:193:LYS:NZ	15:X:32:ALA:HB1	2.33	0.43
5:N:615:MET:HE3	5:N:615:MET:HB2	1.76	0.43
5:N:743:ILE:H	5:N:743:ILE:HG12	1.60	0.43
5:N:758:PHE:HB2	5:N:1024:ALA:HB1	2.01	0.43
5:N:806:THR:O	5:N:807:ARG:C	2.62	0.43
5:N:955:THR:HG23	15:X:54:ARG:O	2.19	0.43
6:O:143:LEU:C	6:O:143:LEU:HD12	2.44	0.43
11:T:40:LEU:HD22	11:T:123:MET:CE	2.49	0.43
12:U:27:PHE:O	12:U:28:GLU:HB3	2.17	0.43
13:V:1:MET:HE2	13:V:60:PHE:CE2	2.54	0.43
13:V:52:THR:O	13:V:53:HIS:C	2.62	0.43
14:W:5:ASP:O	14:W:6:ARG:C	2.62	0.43
4:A:33:ALA:O	4:A:83:HIS:CD2	2.68	0.43
4:A:34:LYS:H	4:A:57:ARG:HH21	1.65	0.43
4:A:172:PRO:HB3	4:A:185:TRP:CD2	2.53	0.43
4:A:218:ASP:HA	4:A:221:SER:OG	2.19	0.43
4:A:262:LEU:O	4:A:264:PHE:N	2.52	0.43
4:A:531:ILE:O	4:A:531:ILE:HG12	2.19	0.43
4:A:577:ILE:O	4:A:579:SER:N	2.52	0.43
4:A:665:GLY:O	4:A:666:ILE:C	2.62	0.43
4:A:834:THR:HG21	4:A:1077:THR:HA	2.00	0.43
4:A:1164:PRO:HG2	4:A:1165:GLU:HG3	2.01	0.43
5:B:45:SER:OG	5:B:46:GLN:N	2.50	0.43
5:B:96:TYR:HE1	5:B:131:ASP:OD2	2.01	0.43
5:B:595:ARG:O	5:B:596:LEU:C	2.60	0.43
5:B:641:GLU:HA	5:B:641:GLU:OE1	2.19	0.43
5:B:763:GLN:O	5:B:764:SER:C	2.60	0.43
5:B:1016:ALA:O	5:B:1020:ARG:HG3	2.19	0.43
5:B:1215:ARG:C	5:B:1216:LEU:HD23	2.44	0.43
6:C:50:GLU:O	6:C:51:VAL:C	2.62	0.43
7:D:170:THR:C	7:D:172:LEU:N	2.76	0.43
7:D:175:PHE:HZ	10:G:85:GLU:HG3	1.83	0.43
9:F:124:GLU:HB3	9:F:130:ILE:HG12	1.99	0.43
4:M:306:ASN:ND2	4:M:322:VAL:HB	2.33	0.43
4:M:491:VAL:HG12	4:M:492:PRO:O	2.19	0.43
4:M:605:MET:HE2	4:M:607:ILE:HG13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1205:LYS:O	4:M:1206:ASP:C	2.62	0.43
4:M:1364:ASN:C	4:M:1364:ASN:ND2	2.77	0.43
5:N:52:ASN:C	5:N:54:PHE:N	2.76	0.43
5:N:558:LEU:C	5:N:560:GLU:N	2.75	0.43
5:N:861:ASP:OD1	5:N:862:GLN:N	2.52	0.43
5:N:866:TYR:HD1	5:N:870:ILE:O	2.01	0.43
5:N:936:ASP:CG	5:N:938:SER:H	2.25	0.43
5:N:1017:ILE:CB	5:N:1018:PRO:HD3	2.45	0.43
2:2:18:TT:H2'	2:2:18:TT:H6	1.80	0.43
2:5:12:DT:H1'	2:5:13:DA:H5'	2.00	0.43
4:A:219:PHE:O	4:A:222:LEU:O	2.37	0.43
4:A:553:VAL:HG13	4:A:648:ASN:HB3	2.01	0.43
4:A:588:LEU:O	4:A:606:LEU:HD12	2.19	0.43
4:A:852:TYR:CD2	4:A:1060:PRO:CB	3.00	0.43
4:A:1349:TYR:O	4:A:1350:LYS:C	2.62	0.43
4:A:1385:THR:O	4:A:1386:ARG:C	2.61	0.43
5:B:102:VAL:CG2	5:B:112:LEU:HD22	2.49	0.43
5:B:314:LEU:O	5:B:315:LYS:C	2.61	0.43
5:B:744:HIS:HD2	5:B:746:SER:CB	2.32	0.43
5:B:999:MET:HG2	5:B:1007:VAL:HG22	2.00	0.43
6:C:242:GLN:O	6:C:244:VAL:N	2.52	0.43
6:C:259:LEU:HD13	14:K:91:CYS:HB2	2.01	0.43
7:D:13:ARG:C	7:D:17:LYS:NZ	2.77	0.43
7:D:40:HIS:C	7:D:42:GLY:N	2.77	0.43
8:E:93:MET:SD	8:E:97:VAL:HG23	2.59	0.43
13:J:1:MET:HG3	13:J:1:MET:O	2.19	0.43
13:J:56:LEU:O	13:J:57:ILE:C	2.60	0.43
4:M:47:ARG:O	4:M:48:ALA:HB2	2.19	0.43
4:M:164:ARG:CG	4:M:165:GLY:H	2.22	0.43
4:M:260:ASP:O	4:M:261:ASP:C	2.62	0.43
4:M:346:ASP:CG	5:N:1108:ARG:HA	2.44	0.43
4:M:406:ILE:HG13	4:M:431:LYS:CB	2.49	0.43
4:M:800:VAL:CG1	4:M:808:LEU:HG	2.49	0.43
4:M:809:THR:O	4:M:810:PRO:C	2.60	0.43
4:M:935:GLN:O	4:M:936:LEU:C	2.60	0.43
4:M:1004:ASN:O	4:M:1008:GLN:HB2	2.19	0.43
5:N:97:VAL:HG12	5:N:178:ASN:ND2	2.32	0.43
5:N:105:SER:C	5:N:107:GLY:N	2.77	0.43
5:N:310:MET:HE1	5:N:383:ASN:OD1	2.19	0.43
5:N:487:THR:CG2	5:N:488:TYR:N	2.81	0.43
5:N:634:TYR:HA	5:N:694:ASP:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:658:ILE:HG22	5:N:662:MET:HE2	1.99	0.43
5:N:827:ILE:HD12	5:N:1086:PHE:CD2	2.54	0.43
5:N:838:SER:HA	5:N:989:THR:O	2.18	0.43
5:N:844:SER:O	5:N:847:ASP:N	2.50	0.43
5:N:983:ARG:HD2	5:N:1091:TYR:CD2	2.54	0.43
5:N:1160:VAL:HG11	5:N:1169:MET:SD	2.58	0.43
6:O:9:LYS:O	6:O:10:ILE:C	2.62	0.43
7:P:156:ASP:C	7:P:158:GLU:N	2.76	0.43
7:P:192:LYS:HZ3	7:P:192:LYS:CB	2.31	0.43
10:S:1:MET:HG3	10:S:85:GLU:OE2	2.18	0.43
4:A:98:LYS:O	4:A:101:LYS:N	2.52	0.42
4:A:122:MET:O	4:A:123:ARG:C	2.62	0.42
4:A:598:LEU:O	4:A:598:LEU:CD2	2.67	0.42
4:A:621:THR:O	4:A:629:LEU:HB2	2.20	0.42
5:B:408:LEU:HG	5:B:409:ALA:H	1.84	0.42
5:B:681:TRP:O	5:B:684:LEU:N	2.51	0.42
5:B:996:ARG:HH21	6:C:175:ALA:HA	1.84	0.42
5:B:1020:ARG:HB2	5:B:1022:THR:HG22	2.01	0.42
6:C:175:ALA:HB3	13:J:43:ARG:NH2	2.33	0.42
6:C:213:PRO:HG2	6:C:214:ASN:H	1.84	0.42
4:M:18:GLN:O	5:N:1215:ARG:HG2	2.19	0.42
4:M:244:PRO:CG	4:M:245:PRO:HD3	2.49	0.42
4:M:503:GLN:C	4:M:504:LEU:HD12	2.44	0.42
4:M:719:VAL:C	4:M:721:PHE:N	2.78	0.42
4:M:774:ARG:HB2	4:M:797:LYS:HB3	2.01	0.42
4:M:1243:VAL:CG1	4:M:1244:ARG:N	2.82	0.42
5:N:43:LEU:HD11	5:N:811:TYR:O	2.19	0.42
5:N:759:PRO:C	5:N:761:HIS:H	2.27	0.42
5:N:825:VAL:HG13	5:N:826:ALA:N	2.34	0.42
5:N:1223:ASP:HB3	5:N:1224:PHE:H	1.59	0.42
8:Q:117:THR:C	8:Q:119:SER:H	2.26	0.42
9:R:128:LYS:HD3	9:R:149:GLU:O	2.19	0.42
11:T:100:THR:HG22	11:T:101:ALA:N	2.34	0.42
11:T:130:ARG:HD2	11:T:130:ARG:N	2.28	0.42
13:V:14:VAL:CG1	13:V:50:ILE:HD11	2.48	0.42
3:3:10:A:H4'	4:A:485:ASP:OD1	2.19	0.42
4:A:7:SER:C	4:A:9:ALA:N	2.77	0.42
4:A:675:THR:OG1	4:A:736:ASN:ND2	2.52	0.42
4:A:809:THR:HG23	4:A:812:GLU:OE1	2.18	0.42
4:A:897:TYR:HD2	4:A:936:LEU:CD1	2.28	0.42
4:A:932:GLU:O	4:A:935:GLN:HB3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:981:LEU:CD2	4:A:1039:LYS:CA	2.97	0.42
5:B:339:THR:O	5:B:339:THR:CG2	2.67	0.42
5:B:352:ALA:O	5:B:353:LYS:C	2.61	0.42
5:B:640:VAL:O	5:B:640:VAL:HG12	2.19	0.42
5:B:847:ASP:O	5:B:849:GLY:N	2.51	0.42
7:D:48:ILE:CG2	10:G:4:ILE:HB	2.48	0.42
8:E:9:ILE:C	8:E:11:ARG:N	2.77	0.42
10:G:17:PHE:C	10:G:19:GLY:H	2.27	0.42
10:G:117:GLN:C	10:G:119:LEU:N	2.75	0.42
14:K:103:THR:C	14:K:105:PHE:H	2.27	0.42
4:M:3:GLY:O	4:M:4:GLN:HB2	2.19	0.42
4:M:34:LYS:HG2	4:M:36:ARG:NH2	2.34	0.42
4:M:172:PRO:HB3	4:M:185:TRP:CE2	2.54	0.42
4:M:265:LYS:CE	4:M:322:VAL:HG13	2.48	0.42
4:M:1074:GLU:C	4:M:1076:ALA:H	2.27	0.42
5:N:234:ILE:O	5:N:261:ARG:NH2	2.51	0.42
5:N:303:TYR:N	5:N:303:TYR:CD2	2.86	0.42
5:N:405:ARG:HA	5:N:631:GLY:O	2.19	0.42
5:N:552:MET:C	5:N:554:ILE:N	2.77	0.42
5:N:803:LEU:HD12	5:N:1032:SER:HB3	2.00	0.42
5:N:862:GLN:O	5:N:914:LYS:HE3	2.19	0.42
5:N:897:GLY:O	5:N:898:LEU:HD23	2.19	0.42
5:N:977:GLY:HA3	5:N:1099:VAL:HB	2.01	0.42
5:N:1087:PHE:CD2	5:N:1088:GLY:N	2.78	0.42
11:T:38:LEU:HD13	11:T:125:LEU:HD13	2.01	0.42
14:W:92:ASN:O	14:W:93:SER:C	2.62	0.42
4:A:3:GLY:O	4:A:4:GLN:HB2	2.19	0.42
4:A:34:LYS:HD3	4:A:34:LYS:N	2.34	0.42
4:A:59:GLY:HA2	4:A:67:CYS:SG	2.58	0.42
4:A:474:VAL:HG22	4:A:478:TYR:HE1	1.83	0.42
4:A:1032:LEU:O	4:A:1036:ARG:HD3	2.19	0.42
4:A:1161:THR:CG2	4:A:1163:ILE:HG13	2.49	0.42
4:A:1444:MET:O	9:F:132:LEU:HA	2.19	0.42
5:B:184:ALA:HB1	5:B:188:ASP:HB3	2.00	0.42
5:B:234:ILE:O	5:B:261:ARG:NH2	2.51	0.42
5:B:384:ARG:O	5:B:385:LEU:C	2.62	0.42
5:B:549:THR:CG2	5:B:550:ASP:H	2.13	0.42
6:C:20:PHE:HE1	6:C:22:LEU:HD12	1.83	0.42
6:C:69:LEU:O	13:J:6:ARG:HD2	2.19	0.42
6:C:221:TYR:C	6:C:223:ALA:H	2.28	0.42
6:C:248:ILE:HG13	6:C:248:ILE:H	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:E:55:ARG:O	8:E:57:MET:N	2.52	0.42
4:M:90:VAL:HG13	4:M:297:GLN:OE1	2.19	0.42
4:M:164:ARG:CG	4:M:165:GLY:N	2.70	0.42
4:M:715:GLU:O	4:M:716:ASP:C	2.61	0.42
4:M:1149:ALA:CB	12:U:47:GLU:HA	2.48	0.42
4:M:1213:GLY:O	4:M:1216:ILE:N	2.51	0.42
4:M:1297:GLU:H	4:M:1297:GLU:HG3	1.47	0.42
4:M:1362:TYR:CD1	4:M:1362:TYR:C	2.95	0.42
5:N:180:TYR:CD1	5:N:180:TYR:N	2.82	0.42
5:N:234:ILE:HD12	5:N:234:ILE:N	2.33	0.42
5:N:681:TRP:O	5:N:684:LEU:N	2.51	0.42
5:N:800:GLN:CA	13:V:52:THR:HG22	2.49	0.42
5:N:1167:GLY:H	5:N:1217:TYR:HE1	1.68	0.42
5:N:1198:TYR:C	5:N:1198:TYR:CD2	2.96	0.42
6:O:166:GLU:O	6:O:167:HIS:HB2	2.17	0.42
8:Q:168:TYR:C	8:Q:169:ARG:HG3	2.44	0.42
9:R:77:ASP:O	9:R:78:GLN:HB2	2.19	0.42
11:T:26:ILE:CG2	11:T:27:GLU:N	2.82	0.42
12:U:60:GLN:NE2	12:U:107:SER:OG	2.50	0.42
12:U:109:ILE:O	12:U:109:ILE:HG22	2.18	0.42
14:W:56:VAL:HG22	14:W:77:THR:HG22	2.01	0.42
4:A:42:ASP:HA	4:A:46:THR:O	2.19	0.42
4:A:325:ILE:O	4:A:326:ARG:C	2.63	0.42
4:A:899:VAL:CG2	4:A:1029:ARG:HG2	2.50	0.42
5:B:97:VAL:HG12	5:B:178:ASN:HD21	1.83	0.42
5:B:303:TYR:N	5:B:303:TYR:CD2	2.86	0.42
5:B:552:MET:C	5:B:554:ILE:H	2.27	0.42
5:B:1135:ARG:O	5:B:1136:ASP:C	2.62	0.42
6:C:9:LYS:O	6:C:10:ILE:C	2.62	0.42
10:G:14:HIS:CE1	10:G:15:PRO:HD2	2.52	0.42
10:G:151:ILE:HD13	10:S:114:LEU:HD13	2.01	0.42
12:I:7:CYS:HB2	12:I:34:TYR:CD1	2.55	0.42
13:J:2:ILE:CG2	13:J:3:VAL:N	2.82	0.42
13:J:16:ASP:C	13:J:18:TRP:H	2.27	0.42
14:K:58:PHE:HB3	14:K:76:GLN:HB3	2.01	0.42
15:L:55:ILE:H	15:L:55:ILE:HG12	1.39	0.42
4:M:73:GLY:O	4:M:75:ASN:N	2.52	0.42
4:M:362:ASP:OD2	4:M:459:ARG:HD3	2.20	0.42
4:M:396:PRO:HB3	4:M:403:LYS:HB3	2.01	0.42
4:M:507:VAL:N	4:M:508:PRO:CD	2.82	0.42
4:M:1195:LEU:HD11	4:M:1267:MET:HE1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:263:GLY:O	5:N:264:SER:C	2.62	0.42
5:N:552:MET:C	5:N:554:ILE:H	2.27	0.42
5:N:618:ASP:O	5:N:619:ILE:C	2.63	0.42
5:N:996:ARG:HG2	5:N:1007:VAL:HG11	2.00	0.42
5:N:1040:ASN:O	5:N:1041:GLU:C	2.61	0.42
5:N:1080:LYS:HD2	6:O:188:HIS:HB2	2.02	0.42
5:N:1222:ARG:HG2	5:N:1222:ARG:O	2.19	0.42
6:O:77:ILE:C	6:O:79:GLN:H	2.27	0.42
2:2:23:DG:H2'	2:2:24:DG:H8	1.84	0.42
4:A:58:LEU:HD11	4:A:243:PRO:HB2	2.01	0.42
4:A:172:PRO:HB3	4:A:185:TRP:CE2	2.55	0.42
4:A:185:TRP:CZ3	4:A:200:ARG:HG2	2.55	0.42
4:A:219:PHE:CE2	4:A:231:PRO:HD2	2.54	0.42
4:A:260:ASP:O	4:A:261:ASP:C	2.62	0.42
4:A:332:LYS:C	4:A:334:GLY:H	2.28	0.42
4:A:482:PHE:C	4:A:484:GLY:N	2.71	0.42
4:A:537:ARG:NH1	11:H:120:GLY:O	2.51	0.42
4:A:546:VAL:HG21	4:A:572:TRP:CE3	2.54	0.42
4:A:919:ILE:O	4:A:920:LEU:C	2.62	0.42
4:A:963:ILE:HD13	4:A:1049:ILE:HG13	2.00	0.42
4:A:1074:GLU:C	4:A:1076:ALA:N	2.78	0.42
4:A:1315:GLU:C	4:A:1317:MET:N	2.77	0.42
4:A:1399:ARG:O	4:A:1400:CYS:C	2.61	0.42
4:A:1451:VAL:O	4:A:1454:MET:HG2	2.20	0.42
5:B:29:ASP:O	5:B:30:SER:C	2.62	0.42
5:B:278:GLN:HE22	5:B:337:ARG:HH21	1.66	0.42
5:B:388:CYS:C	5:B:390:LEU:N	2.77	0.42
5:B:487:THR:O	5:B:490:SER:HB3	2.19	0.42
5:B:770:GLN:C	5:B:772:ALA:H	2.27	0.42
5:B:810:GLU:HB3	5:B:811:TYR:CE1	2.55	0.42
5:B:996:ARG:HG2	5:B:1007:VAL:HG11	2.01	0.42
5:B:1027:ILE:O	5:B:1028:GLU:C	2.62	0.42
5:B:1034:VAL:C	5:B:1036:ALA:H	2.27	0.42
5:B:1202:LEU:HD22	5:B:1206:GLU:CD	2.44	0.42
6:C:241:ASP:OD1	6:C:242:GLN:N	2.46	0.42
8:E:42:PHE:CZ	8:E:58:MET:HE3	2.54	0.42
14:K:65:HIS:CG	14:K:66:PRO:HD2	2.55	0.42
4:M:55:ASP:N	4:M:56:PRO:CD	2.81	0.42
4:M:367:PRO:HB3	4:M:465:TYR:O	2.18	0.42
4:M:402:ALA:HB1	4:M:434:ARG:HA	2.01	0.42
4:M:666:ILE:HG12	5:N:1030:LEU:HD22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:814:PHE:O	4:M:818:MET:HG3	2.19	0.42
4:M:857:ARG:NH1	9:R:139:PRO:HB2	2.34	0.42
4:M:901:LEU:HD22	4:M:919:ILE:HG22	2.01	0.42
4:M:1215:ARG:O	4:M:1216:ILE:C	2.62	0.42
4:M:1347:ALA:O	4:M:1348:LEU:C	2.62	0.42
4:M:1401:SER:O	4:M:1402:PHE:HB2	2.19	0.42
4:M:1445:ILE:HD12	10:S:59:GLY:O	2.20	0.42
5:N:300:HIS:HE1	5:N:376:PHE:CE1	2.38	0.42
5:N:566:LEU:O	5:N:567:GLU:C	2.62	0.42
5:N:842:ASN:O	5:N:846:ILE:HG13	2.20	0.42
5:N:999:MET:HB3	5:N:1007:VAL:HG21	2.01	0.42
5:N:1065:GLN:HE21	5:N:1066:SER:N	2.16	0.42
5:N:1187:ASN:OD1	5:N:1190:ASP:N	2.53	0.42
6:O:38:ILE:HA	6:O:173:ALA:HB2	2.01	0.42
7:P:122:GLU:HA	7:P:125:SER:OG	2.19	0.42
7:P:153:ARG:C	7:P:154:PHE:CG	2.96	0.42
10:S:34:VAL:HG11	10:S:74:TYR:HE1	1.82	0.42
11:T:84:ALA:C	11:T:87:ARG:H	2.27	0.42
13:V:7:CYS:CA	13:V:49:MET:HE3	2.49	0.42
14:W:18:LYS:NZ	14:W:37:LYS:O	2.53	0.42
15:X:40:LEU:HB3	15:X:41:SER:H	1.64	0.42
4:A:172:PRO:HD3	4:A:185:TRP:NE1	2.34	0.42
4:A:332:LYS:C	4:A:334:GLY:N	2.78	0.42
4:A:492:PRO:CB	4:A:497:THR:HG22	2.50	0.42
5:B:710:LEU:C	5:B:711:GLU:HG2	2.45	0.42
5:B:758:PHE:CE1	5:B:1027:ILE:HG22	2.55	0.42
5:B:1109:GLY:O	5:B:1110:PRO:C	2.61	0.42
6:C:47:ASP:CA	15:L:69:ALA:CB	2.93	0.42
6:C:76:ASP:O	6:C:77:ILE:C	2.61	0.42
6:C:99:LEU:O	6:C:156:THR:HA	2.19	0.42
6:C:123:ASN:ND2	6:C:125:MET:SD	2.93	0.42
7:D:38:ILE:HG23	7:D:43:GLU:O	2.19	0.42
7:D:53:SER:H	7:D:148:LEU:CD2	2.32	0.42
10:G:13:LEU:HD22	10:G:14:HIS:O	2.19	0.42
10:G:111:THR:O	10:G:115:MET:HG3	2.20	0.42
13:J:16:ASP:C	13:J:18:TRP:N	2.77	0.42
4:M:117:GLU:CD	4:M:117:GLU:H	2.27	0.42
4:M:218:ASP:O	4:M:219:PHE:O	2.37	0.42
4:M:326:ARG:HG2	4:M:327:ALA:N	2.34	0.42
4:M:650:GLN:HB3	4:M:654:ASN:HD21	1.84	0.42
4:M:837:ILE:HA	4:M:840:ARG:HD3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:964:ILE:C	4:M:966:ASN:N	2.75	0.42
4:M:1019:CYS:O	4:M:1022:LEU:N	2.53	0.42
5:N:278:GLN:HG2	5:N:279:ASP:N	2.29	0.42
5:N:294:ASP:C	5:N:296:GLU:N	2.78	0.42
5:N:906:SER:O	5:N:907:GLY:C	2.63	0.42
7:P:156:ASP:C	7:P:158:GLU:H	2.26	0.42
8:Q:18:THR:O	8:Q:19:VAL:C	2.62	0.42
11:T:40:LEU:HD12	11:T:122:LEU:O	2.20	0.42
11:T:99:GLY:HA3	11:T:118:PHE:HA	2.02	0.42
14:W:18:LYS:HZ3	14:W:38:GLU:HG2	1.85	0.42
4:A:390:GLN:O	4:A:391:LEU:C	2.61	0.42
4:A:456:MET:HE3	4:A:478:TYR:CZ	2.54	0.42
4:A:542:GLU:O	4:A:543:LEU:C	2.62	0.42
4:A:645:LEU:HD11	4:A:649:ILE:HD11	2.01	0.42
4:A:719:VAL:C	4:A:721:PHE:H	2.27	0.42
4:A:768:GLN:HG3	4:A:816:HIS:HA	1.99	0.42
4:A:843:LYS:HD3	4:A:843:LYS:HA	1.87	0.42
4:A:1215:ARG:HA	4:A:1215:ARG:HD2	1.73	0.42
4:A:1444:MET:HG2	10:G:59:GLY:O	2.19	0.42
4:A:1445:ILE:H	4:A:1445:ILE:CD1	2.01	0.42
4:A:1454:MET:O	4:A:1454:MET:HG3	2.19	0.42
5:B:890:TYR:O	5:B:892:LYS:N	2.53	0.42
5:B:955:THR:CG2	5:B:956:THR:N	2.68	0.42
6:C:77:ILE:HG22	6:C:78:GLU:N	2.34	0.42
8:E:60:PHE:CE2	8:E:80:VAL:HB	2.54	0.42
8:E:72:PHE:CE2	8:E:155:ARG:NH2	2.88	0.42
9:F:85:MET:HE1	9:F:148:VAL:HG12	2.01	0.42
10:G:25:TYR:O	10:G:26:LEU:C	2.62	0.42
11:H:99:GLY:N	11:H:118:PHE:CD2	2.87	0.42
14:K:90:ALA:O	14:K:94:ILE:HG13	2.20	0.42
4:M:119:ASN:O	4:M:122:MET:HB3	2.20	0.42
4:M:525:GLN:O	4:M:526:ASP:C	2.62	0.42
4:M:567:LYS:HG3	4:M:568:PRO:CD	2.48	0.42
4:M:858:ASN:ND2	4:M:860:LEU:N	2.61	0.42
4:M:996:ASN:C	4:M:998:LEU:HD12	2.44	0.42
5:N:213:ILE:HD12	5:N:497:ARG:HB3	2.01	0.42
5:N:343:ILE:HG21	5:N:348:ARG:CA	2.49	0.42
5:N:458:LYS:O	5:N:459:TYR:C	2.63	0.42
5:N:843:GLN:HB2	5:N:993:THR:HB	2.00	0.42
5:N:882:THR:O	5:N:883:LEU:CB	2.68	0.42
7:P:14:ARG:N	7:P:17:LYS:HZ3	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:154:ILE:HG22	8:Q:155:ARG:O	2.20	0.42
11:T:89:LEU:C	11:T:91:ASP:N	2.77	0.42
15:X:70:ARG:HG2	15:X:70:ARG:NH1	2.34	0.42
2:2:18:TT:H5M1	2:2:20:DC:C5	2.55	0.42
4:A:146:MET:HA	4:A:171:GLN:HB2	2.01	0.42
4:A:167:CYS:SG	4:A:167:CYS:O	2.78	0.42
4:A:320:ARG:HA	4:A:321:PRO:HD3	1.93	0.42
4:A:545:GLN:O	4:A:546:VAL:C	2.62	0.42
4:A:595:THR:O	4:A:596:THR:HG23	2.19	0.42
4:A:599:SER:HA	4:A:600:PRO:HD2	1.92	0.42
4:A:774:ARG:HB2	4:A:797:LYS:HB3	2.02	0.42
4:A:1028:THR:O	4:A:1029:ARG:C	2.61	0.42
4:A:1066:VAL:HG12	5:B:1140:ALA:HB2	2.02	0.42
4:A:1324:PRO:HB2	8:E:142:VAL:HG11	2.02	0.42
5:B:52:ASN:C	5:B:54:PHE:N	2.77	0.42
5:B:240:ILE:HG22	5:B:254:LEU:HB3	2.02	0.42
5:B:382:ILE:O	5:B:386:LEU:HG	2.19	0.42
5:B:459:TYR:C	5:B:459:TYR:HD2	2.26	0.42
5:B:765:PRO:O	5:B:768:THR:N	2.53	0.42
5:B:785:TYR:CD1	5:B:786:ASN:N	2.88	0.42
5:B:862:GLN:O	5:B:914:LYS:HE3	2.20	0.42
5:B:1115:THR:CG2	5:B:1117:GLN:CG	2.97	0.42
5:B:1138:MET:HE3	5:B:1143:ALA:HB3	2.00	0.42
6:C:98:VAL:HG23	6:C:122:SER:HB3	2.01	0.42
6:C:116:LYS:HD3	6:C:140:ASN:HA	2.02	0.42
7:D:56:ARG:NH2	7:D:57:LEU:HD21	2.35	0.42
7:D:209:ARG:O	7:D:212:LYS:HB2	2.20	0.42
8:E:31:THR:O	8:E:35:VAL:HG23	2.18	0.42
8:E:98:ILE:C	8:E:100:ILE:N	2.76	0.42
11:H:20:TYR:O	11:H:22:LYS:N	2.52	0.42
11:H:100:THR:OG1	11:H:138:GLU:HG3	2.18	0.42
12:I:82:GLU:HB3	12:I:104:LEU:CD1	2.50	0.42
4:M:23:SER:CB	4:M:233:TRP:NE1	2.83	0.42
4:M:89:PRO:C	4:M:204:THR:HG21	2.44	0.42
4:M:353:ILE:HG13	4:M:482:PHE:CD2	2.53	0.42
4:M:369:SER:CB	14:W:2:ASN:OD1	2.68	0.42
4:M:538:ASP:OD2	11:T:22:LYS:HB2	2.19	0.42
4:M:666:ILE:CD1	4:M:667:GLY:N	2.83	0.42
4:M:896:ARG:NH2	4:M:1030:ARG:NH2	2.68	0.42
4:M:901:LEU:HA	4:M:907:THR:OG1	2.20	0.42
4:M:942:PHE:CD2	4:M:942:PHE:C	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1131:ALA:O	4:M:1132:LYS:C	2.63	0.42
4:M:1265:ASN:C	4:M:1267:MET:H	2.27	0.42
4:M:1447:GLU:OE2	10:S:23:LYS:HB2	2.19	0.42
5:N:240:ILE:HG22	5:N:254:LEU:HB3	2.02	0.42
5:N:352:ALA:O	5:N:353:LYS:C	2.62	0.42
5:N:751:VAL:HG13	5:N:812:LEU:HD22	2.02	0.42
6:O:80:LEU:HD11	6:O:95:CYS:CA	2.50	0.42
6:O:133:ILE:CD1	6:O:237:SER:CA	2.96	0.42
7:P:146:GLN:O	7:P:147:TYR:C	2.63	0.42
8:Q:73:PRO:C	8:Q:75:MET:H	2.28	0.42
10:S:139:ILE:HG22	10:S:140:LYS:N	2.34	0.42
10:S:170:ALA:C	10:S:171:ILE:HG12	2.44	0.42
14:W:31:VAL:O	14:W:74:ARG:HA	2.20	0.42
4:A:92:HIS:O	4:A:93:VAL:C	2.62	0.42
4:A:773:LYS:H	4:A:773:LYS:HG3	1.58	0.42
4:A:854:ASN:HB3	4:A:1000:LEU:HD21	2.01	0.42
4:A:1319:VAL:HG13	4:A:1320:PRO:HD2	2.01	0.42
4:A:1362:TYR:CD1	4:A:1362:TYR:C	2.96	0.42
5:B:234:ILE:O	5:B:261:ARG:CZ	2.68	0.42
5:B:251:ILE:O	5:B:251:ILE:HG22	2.20	0.42
5:B:449:ASN:O	5:B:451:LYS:N	2.53	0.42
5:B:882:THR:O	5:B:883:LEU:CB	2.68	0.42
5:B:1187:ASN:OD1	5:B:1190:ASP:N	2.53	0.42
6:C:38:ILE:HA	6:C:173:ALA:HB2	2.02	0.42
6:C:69:LEU:HD12	6:C:69:LEU:H	1.85	0.42
6:C:189:THR:CG2	6:C:190:ASP:N	2.82	0.42
7:D:170:THR:HG22	7:D:172:LEU:HG	1.98	0.42
11:H:7:ASP:O	11:H:8:ASP:HB2	2.20	0.42
14:K:69:ALA:O	14:K:70:ARG:CB	2.66	0.42
4:M:230:ARG:N	4:M:233:TRP:HE3	2.09	0.42
4:M:276:LEU:O	4:M:277:GLU:C	2.63	0.42
4:M:370:ILE:O	4:M:371:ALA:C	2.58	0.42
4:M:1067:LEU:C	4:M:1067:LEU:CD1	2.92	0.42
4:M:1072:ILE:O	4:M:1075:PRO:HD2	2.19	0.42
4:M:1164:PRO:HG2	4:M:1165:GLU:HG3	2.02	0.42
4:M:1384:VAL:O	4:M:1384:VAL:HG12	2.19	0.42
4:M:1389:PHE:C	4:M:1391:ARG:H	2.25	0.42
5:N:37:PHE:HE1	5:N:41:LYS:CG	2.32	0.42
5:N:283:VAL:O	5:N:286:PHE:HB2	2.19	0.42
5:N:899:ILE:HG21	5:N:949:VAL:HG21	2.02	0.42
5:N:956:THR:HG22	5:N:957:ASN:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:18:VAL:HG23	6:O:240:VAL:HB	2.00	0.42
6:O:74:SER:CB	6:O:77:ILE:HG12	2.50	0.42
7:P:63:LEU:HD22	7:P:63:LEU:HA	1.80	0.42
10:S:51:TYR:C	10:S:51:TYR:HD2	2.24	0.42
10:S:88:ASP:HA	10:S:144:ARG:HA	2.01	0.42
11:T:6:PHE:O	11:T:58:THR:HA	2.20	0.42
12:U:33:SER:O	12:U:35:VAL:HG23	2.19	0.42
14:W:31:VAL:CG1	14:W:32:VAL:H	2.32	0.42
15:X:34:CYS:O	15:X:36:SER:N	2.53	0.42
4:A:525:GLN:HB2	5:B:835:GLN:OE1	2.19	0.42
4:A:540:PHE:CE2	4:A:565:ILE:HD12	2.54	0.42
4:A:688:LYS:C	4:A:690:VAL:H	2.26	0.42
4:A:993:LEU:HD22	4:A:1046:LEU:HD22	2.01	0.42
4:A:1005:GLU:O	4:A:1009:ASN:HB2	2.20	0.42
4:A:1013:ASP:O	4:A:1015:VAL:N	2.53	0.42
4:A:1237:ILE:CG2	4:A:1238:ILE:N	2.82	0.42
4:A:1322:ILE:O	4:A:1324:PRO:HD3	2.20	0.42
4:A:1342:GLU:CG	8:E:198:ILE:HD13	2.50	0.42
5:B:258:LEU:C	5:B:258:LEU:HD12	2.45	0.42
5:B:281:PRO:O	5:B:282:ILE:C	2.62	0.42
5:B:773:MET:SD	5:B:987:LYS:HB3	2.60	0.42
5:B:980:PHE:CA	5:B:1095:LEU:HD11	2.50	0.42
5:B:1024:ALA:O	5:B:1025:HIS:C	2.62	0.42
6:C:83:SER:C	6:C:85:ASP:N	2.76	0.42
10:G:1:MET:HE1	10:G:80:LYS:H	1.85	0.42
10:G:122:ASN:ND2	10:G:125:SER:HB3	2.35	0.42
10:G:145:VAL:CG1	10:G:161:GLY:HA3	2.50	0.42
4:M:308:ILE:HG22	4:M:309:ALA:N	2.27	0.42
4:M:494:SER:O	4:M:495:GLU:C	2.63	0.42
4:M:867:ILE:CG2	4:M:872:GLY:N	2.83	0.42
4:M:1259:MET:C	4:M:1261:LYS:N	2.78	0.42
4:M:1299:VAL:CG1	4:M:1300:LYS:N	2.82	0.42
4:M:1305:VAL:CG1	4:M:1306:LEU:N	2.83	0.42
4:M:1397:LEU:C	4:M:1400:CYS:HB3	2.45	0.42
5:N:581:PHE:HA	5:N:585:VAL:O	2.20	0.42
5:N:637:LEU:O	5:N:690:VAL:HG13	2.20	0.42
5:N:855:PHE:HZ	5:N:857:ARG:NH1	2.18	0.42
5:N:999:MET:HE3	5:N:999:MET:CA	2.41	0.42
5:N:1196:ILE:O	5:N:1196:ILE:HG13	2.19	0.42
6:O:31:ASN:O	6:O:34:ARG:N	2.52	0.42
10:S:106:MET:HG2	10:S:107:LYS:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:83:GLN:C	11:T:85:GLY:N	2.77	0.42
12:U:8:ARG:HG3	12:U:8:ARG:H	1.65	0.42
4:A:70:CYS:O	4:A:70:CYS:SG	2.76	0.41
4:A:174:ILE:HG22	4:A:175:ARG:N	2.35	0.41
4:A:319:GLY:HA3	5:B:471:LYS:HA	2.02	0.41
4:A:344:ARG:HD2	5:B:1118:PRO:O	2.19	0.41
4:A:370:ILE:O	4:A:372:LYS:N	2.53	0.41
4:A:966:ASN:C	4:A:968:GLN:N	2.75	0.41
4:A:968:GLN:C	4:A:970:THR:H	2.27	0.41
4:A:1116:LEU:C	4:A:1116:LEU:HD12	2.44	0.41
4:A:1385:THR:O	4:A:1388:GLY:N	2.51	0.41
4:A:1394:THR:O	4:A:1395:GLY:O	2.38	0.41
4:A:1409:LEU:HD13	5:B:1207:LEU:CD1	2.45	0.41
4:A:1435:PRO:HA	4:A:1439:GLY:O	2.20	0.41
5:B:37:PHE:HE1	5:B:41:LYS:HG3	1.82	0.41
5:B:237:VAL:CG1	5:B:238:ALA:N	2.83	0.41
5:B:526:GLU:OE2	5:B:752:ALA:HB2	2.20	0.41
5:B:566:LEU:O	5:B:567:GLU:C	2.62	0.41
5:B:642:ASP:HB3	5:B:649:LYS:CG	2.50	0.41
5:B:796:LEU:HD12	5:B:852:ARG:O	2.19	0.41
5:B:798:TYR:CE2	6:C:62:PHE:CZ	3.04	0.41
5:B:839:MET:HE3	5:B:1010:LEU:CD2	2.48	0.41
5:B:969:ARG:HG2	5:B:970:THR:N	2.34	0.41
5:B:1017:ILE:CB	5:B:1018:PRO:HD3	2.47	0.41
5:B:1121:GLY:C	5:B:1123:SER:N	2.76	0.41
5:B:1181:GLU:O	5:B:1182:CYS:HB2	2.20	0.41
5:B:1200:ALA:O	5:B:1203:LEU:HB3	2.20	0.41
6:C:41:ILE:HA	6:C:42:PRO:HD3	1.75	0.41
7:D:187:THR:HG22	7:D:188:ALA:N	2.35	0.41
8:E:73:PRO:C	8:E:75:MET:H	2.28	0.41
10:G:1:MET:HG3	10:G:85:GLU:OE2	2.19	0.41
11:H:99:GLY:HA3	11:H:118:PHE:HA	2.02	0.41
12:I:15:TYR:HD1	12:I:15:TYR:H	1.68	0.41
12:I:54:GLU:HB3	12:I:100:PHE:CE2	2.54	0.41
12:I:78:CYS:CB	12:I:106:CYS:SG	3.07	0.41
14:K:89:ASN:O	14:K:91:CYS:N	2.53	0.41
4:M:35:ILE:HD13	4:M:241:VAL:HG11	2.01	0.41
4:M:666:ILE:HD12	4:M:667:GLY:N	2.34	0.41
4:M:698:GLN:NE2	12:U:99:LEU:HD21	2.35	0.41
4:M:874:ASP:HA	4:M:1058:VAL:HG22	2.00	0.41
4:M:874:ASP:CA	4:M:1058:VAL:HG22	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:961:ARG:HG2	4:M:965:GLN:HE21	1.85	0.41
4:M:1070:GLN:O	4:M:1071:SER:C	2.62	0.41
4:M:1396:ALA:O	4:M:1398:MET:N	2.53	0.41
4:M:1445:ILE:HD11	10:S:68:ALA:CB	2.50	0.41
5:N:298:LEU:HD13	5:N:314:LEU:HD13	2.01	0.41
5:N:455:SER:O	5:N:456:GLY:C	2.63	0.41
5:N:615:MET:HG2	5:N:626:ILE:HG23	2.00	0.41
5:N:638:PHE:HD2	5:N:690:VAL:HG22	1.85	0.41
5:N:999:MET:HE2	5:N:1011:ILE:HD11	2.01	0.41
6:O:123:ASN:ND2	6:O:125:MET:CG	2.82	0.41
6:O:174:ALA:O	6:O:175:ALA:CB	2.67	0.41
8:Q:136:ASN:OD1	8:Q:138:ALA:N	2.53	0.41
10:S:114:LEU:HD12	10:S:114:LEU:HA	1.92	0.41
14:W:52:ASN:O	14:W:53:ASP:C	2.62	0.41
14:W:57:LEU:N	14:W:76:GLN:O	2.53	0.41
2:5:12:DT:H2"	2:5:13:DA:OP2	2.19	0.41
4:A:56:PRO:O	4:A:57:ARG:CG	2.68	0.41
4:A:470:LEU:HD21	4:A:482:PHE:HE2	1.84	0.41
4:A:509:LEU:HD23	4:A:509:LEU:HA	1.77	0.41
5:B:203:PHE:CD1	5:B:203:PHE:N	2.88	0.41
5:B:522:VAL:HG12	5:B:523:CYS:N	2.34	0.41
5:B:552:MET:C	5:B:554:ILE:N	2.78	0.41
5:B:792:MET:HE2	5:B:857:ARG:HH22	1.86	0.41
5:B:984:HIS:NE2	5:B:1025:HIS:HA	2.35	0.41
5:B:1004:GLU:HG3	5:B:1064:TYR:HE2	1.85	0.41
6:C:18:VAL:O	6:C:20:PHE:CD2	2.71	0.41
8:E:144:ILE:HG13	8:E:145:THR:N	2.34	0.41
10:G:1:MET:SD	10:G:79:PHE:CE1	3.13	0.41
15:L:28:LYS:HB2	15:L:39:SER:HA	2.02	0.41
4:M:44:THR:C	4:M:46:THR:H	2.28	0.41
4:M:338:GLY:HA2	5:N:1129:ARG:HH22	1.84	0.41
4:M:710:LEU:HD12	4:M:710:LEU:N	2.35	0.41
4:M:783:THR:HG22	4:M:784:LEU:HG	2.02	0.41
4:M:1130:GLN:O	4:M:1134:ILE:HG13	2.19	0.41
5:N:203:PHE:CD1	5:N:203:PHE:N	2.87	0.41
5:N:235:SER:C	5:N:236:HIS:CD2	2.98	0.41
5:N:431:TYR:CE2	5:N:447:ALA:HB2	2.55	0.41
5:N:1177:HIS:C	5:N:1179:GLN:H	2.28	0.41
6:O:124:LEU:HD22	6:O:129:ILE:HG22	2.02	0.41
6:O:241:ASP:CG	6:O:242:GLN:N	2.79	0.41
7:P:46:GLU:O	7:P:47:LEU:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:127:ILE:HG13	8:Q:127:ILE:O	2.20	0.41
11:T:95:TYR:CE2	11:T:97:MET:HG3	2.55	0.41
12:U:65:ASP:OD1	12:U:65:ASP:C	2.63	0.41
12:U:106:CYS:O	12:U:107:SER:CB	2.67	0.41
12:U:115:LYS:HD3	12:U:117:LYS:CE	2.38	0.41
13:V:13:VAL:C	13:V:14:VAL:CG2	2.93	0.41
14:W:69:ALA:O	14:W:70:ARG:CB	2.68	0.41
4:A:12:ARG:O	5:B:1194:ILE:HG22	2.19	0.41
4:A:14:VAL:CG2	5:B:1216:LEU:HD13	2.45	0.41
4:A:42:ASP:OD1	4:A:45:GLN:O	2.38	0.41
4:A:114:LEU:HD13	4:A:171:GLN:HE22	1.84	0.41
4:A:543:LEU:O	4:A:544:ASP:C	2.63	0.41
4:A:877:HIS:C	4:A:878:ILE:CG1	2.93	0.41
4:A:975:HIS:HA	4:A:1036:ARG:HG3	2.02	0.41
4:A:1036:ARG:NH1	4:A:1036:ARG:CG	2.82	0.41
4:A:1063:MET:SD	4:A:1436:ILE:HG23	2.60	0.41
4:A:1299:VAL:CG1	4:A:1300:LYS:H	2.32	0.41
5:B:29:ASP:HB3	5:B:658:ILE:HD13	2.02	0.41
5:B:54:PHE:CZ	5:B:59:LEU:HD13	2.56	0.41
5:B:502:ILE:H	5:B:502:ILE:CD1	2.04	0.41
5:B:792:MET:HG3	5:B:855:PHE:CE1	2.53	0.41
5:B:1138:MET:HA	5:B:1138:MET:CE	2.49	0.41
8:E:14:ARG:HH21	8:E:141:VAL:CG1	2.32	0.41
8:E:191:LYS:O	8:E:193:GLY:N	2.52	0.41
8:E:207:ARG:NH1	8:E:207:ARG:HB2	2.35	0.41
8:E:212:ARG:HG3	8:E:212:ARG:HH11	1.85	0.41
9:F:97:ARG:HA	9:F:97:ARG:HD2	1.80	0.41
10:G:14:HIS:ND1	10:G:15:PRO:CD	2.76	0.41
11:H:38:LEU:HD13	11:H:125:LEU:CD1	2.50	0.41
12:I:60:GLN:NE2	12:I:107:SER:OG	2.53	0.41
12:I:100:PHE:N	12:I:100:PHE:HD1	2.18	0.41
13:J:1:MET:H1	13:J:56:LEU:CB	2.32	0.41
13:J:51:LEU:O	13:J:51:LEU:HD12	2.20	0.41
14:K:15:GLY:O	14:K:16:GLU:HG3	2.20	0.41
15:L:34:CYS:O	15:L:36:SER:N	2.52	0.41
4:M:630:ILE:HD13	4:M:646:PHE:HZ	1.84	0.41
4:M:650:GLN:O	4:M:654:ASN:ND2	2.53	0.41
4:M:853:ASP:O	4:M:854:ASN:CB	2.69	0.41
4:M:919:ILE:O	4:M:920:LEU:C	2.63	0.41
4:M:1029:ARG:HG3	4:M:1029:ARG:NH1	2.35	0.41
4:M:1317:MET:C	4:M:1319:VAL:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:326:ASP:O	5:N:327:ARG:C	2.63	0.41
5:N:426:LYS:HG3	5:N:426:LYS:O	2.20	0.41
5:N:792:MET:HE2	5:N:857:ARG:NH2	2.35	0.41
5:N:969:ARG:HD2	6:O:61:GLU:OE2	2.20	0.41
6:O:258:ILE:N	6:O:258:ILE:CD1	2.82	0.41
8:Q:30:ILE:HG22	8:Q:31:THR:N	2.35	0.41
9:R:93:ILE:HD13	9:R:148:VAL:CG1	2.50	0.41
13:V:41:LEU:N	13:V:41:LEU:HD23	2.34	0.41
4:A:407:ARG:HG2	4:A:430:TRP:CZ2	2.56	0.41
4:A:551:TYR:CZ	14:K:62:LYS:HE2	2.56	0.41
4:A:855:THR:HA	4:A:866:PHE:O	2.20	0.41
4:A:1007:ILE:C	4:A:1009:ASN:N	2.78	0.41
4:A:1131:ALA:O	4:A:1132:LYS:C	2.63	0.41
5:B:429:PHE:HA	5:B:432:MET:HE2	2.02	0.41
5:B:744:HIS:CG	5:B:745:PRO:HD2	2.55	0.41
5:B:828:ALA:HB2	5:B:1085:ILE:HG23	2.01	0.41
5:B:1013:ASN:OD1	5:B:1015:HIS:HB2	2.20	0.41
5:B:1085:ILE:HG22	5:B:1086:PHE:N	2.36	0.41
6:C:167:HIS:CD2	6:C:168:ALA:H	2.32	0.41
8:E:129:PRO:O	8:E:130:ALA:C	2.63	0.41
10:G:101:VAL:CG1	10:G:102:GLN:N	2.84	0.41
11:H:145:ARG:O	11:H:146:ARG:HB2	2.21	0.41
12:I:59:VAL:C	12:I:61:ASP:N	2.78	0.41
13:J:8:PHE:H	13:J:49:MET:HE3	1.84	0.41
4:M:630:ILE:O	4:M:631:HIS:C	2.63	0.41
4:M:701:LEU:HD23	12:U:115:LYS:CE	2.50	0.41
5:N:382:ILE:O	5:N:386:LEU:HG	2.21	0.41
5:N:595:ARG:O	5:N:596:LEU:C	2.62	0.41
5:N:776:GLN:O	5:N:1095:LEU:HA	2.21	0.41
5:N:1182:CYS:O	5:N:1183:LYS:O	2.38	0.41
6:O:27:LEU:HD13	6:O:228:PHE:CE2	2.56	0.41
6:O:83:SER:C	6:O:85:ASP:N	2.77	0.41
7:P:176:GLU:HB3	7:P:198:LEU:HD21	2.01	0.41
7:P:177:VAL:O	7:P:177:VAL:HG12	2.20	0.41
9:R:148:VAL:O	9:R:149:GLU:C	2.62	0.41
11:T:95:TYR:HE2	11:T:97:MET:HG2	1.86	0.41
12:U:61:ASP:O	12:U:63:GLY:N	2.53	0.41
13:V:1:MET:HG3	13:V:1:MET:O	2.21	0.41
15:X:53:HIS:CB	15:X:55:ILE:HD11	2.48	0.41
4:A:331:GLY:O	4:A:332:LYS:O	2.38	0.41
4:A:408:ASP:O	4:A:410:GLY:N	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:701:LEU:HD23	12:I:115:LYS:CE	2.50	0.41
4:A:755:PHE:O	4:A:756:ILE:C	2.64	0.41
4:A:857:ARG:NH2	9:F:139:PRO:HG3	2.35	0.41
4:A:1146:VAL:HG11	4:A:1207:LEU:HD12	2.02	0.41
5:B:168:GLY:HA2	5:B:454:THR:OG1	2.21	0.41
6:C:77:ILE:HD13	6:C:77:ILE:HA	1.95	0.41
9:F:98:ALA:O	9:F:99:LEU:C	2.62	0.41
10:G:138:THR:O	10:G:141:SER:OG	2.39	0.41
11:H:40:LEU:HG	11:H:41:ASP:O	2.21	0.41
4:M:494:SER:O	4:M:497:THR:N	2.46	0.41
4:M:719:VAL:C	4:M:721:PHE:H	2.28	0.41
4:M:847:ASP:O	4:M:858:ASN:HA	2.20	0.41
4:M:1340:GLY:O	4:M:1342:GLU:N	2.53	0.41
5:N:257:LYS:N	5:N:270:LYS:O	2.51	0.41
5:N:314:LEU:C	5:N:316:PRO:HD2	2.45	0.41
5:N:546:SER:HA	5:N:612:GLU:OE2	2.20	0.41
6:O:113:VAL:HG23	6:O:147:LEU:HD21	2.01	0.41
6:O:239:PRO:O	6:O:241:ASP:OD1	2.38	0.41
6:O:255:VAL:HG12	14:W:91:CYS:HB3	2.03	0.41
7:P:53:SER:HB3	7:P:152:SER:HB2	2.01	0.41
12:U:50:THR:HG22	12:U:52:ILE:N	2.34	0.41
14:W:12:LEU:H	14:W:12:LEU:CD1	2.25	0.41
14:W:111:LEU:O	14:W:112:GLN:CG	2.68	0.41
15:X:48:CYS:SG	15:X:49:LYS:N	2.93	0.41
15:X:53:HIS:C	15:X:55:ILE:H	2.29	0.41
4:A:32:VAL:HG21	4:A:68:GLN:NE2	2.34	0.41
4:A:103:CYS:O	4:A:106:VAL:O	2.38	0.41
4:A:407:ARG:HD2	4:A:413:ILE:HD11	2.03	0.41
4:A:449:SER:O	5:B:1133:MET:HB3	2.20	0.41
4:A:605:MET:HE2	4:A:607:ILE:HG13	2.01	0.41
4:A:693:VAL:O	4:A:693:VAL:HG12	2.19	0.41
4:A:815:PHE:O	4:A:816:HIS:C	2.63	0.41
4:A:867:ILE:HG22	4:A:871:ASP:H	1.86	0.41
4:A:1134:ILE:O	4:A:1135:ARG:C	2.62	0.41
4:A:1209:MET:O	4:A:1210:GLY:C	2.64	0.41
5:B:231:PRO:O	5:B:232:SER:HB2	2.20	0.41
5:B:258:LEU:O	5:B:258:LEU:CG	2.67	0.41
5:B:265:SER:O	5:B:266:ALA:CB	2.67	0.41
5:B:683:SER:C	5:B:685:LEU:H	2.27	0.41
5:B:758:PHE:O	5:B:760:ASP:N	2.54	0.41
5:B:765:PRO:O	5:B:766:ARG:C	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:770:GLN:OE1	5:B:983:ARG:CA	2.60	0.41
5:B:859:TYR:CD1	5:B:859:TYR:N	2.88	0.41
5:B:879:ARG:O	5:B:880:THR:HB	2.20	0.41
5:B:895:ASP:C	5:B:897:GLY:N	2.77	0.41
5:B:992:ILE:HD11	14:K:66:PRO:HB2	2.02	0.41
5:B:1132:GLU:O	5:B:1135:ARG:HB3	2.21	0.41
6:C:186:LEU:HD12	6:C:186:LEU:N	2.36	0.41
7:D:51:ASN:O	7:D:52:LEU:C	2.62	0.41
8:E:16:PHE:O	8:E:17:ARG:C	2.63	0.41
4:M:209:ASN:O	4:M:210:ILE:C	2.64	0.41
4:M:353:ILE:CG2	4:M:487:MET:HB2	2.51	0.41
4:M:393:ARG:O	4:M:394:ASN:C	2.64	0.41
4:M:537:ARG:NH1	11:T:120:GLY:O	2.52	0.41
4:M:805:LEU:O	5:N:761:HIS:HE1	2.03	0.41
4:M:1067:LEU:C	4:M:1067:LEU:HD12	2.46	0.41
4:M:1125:ALA:C	4:M:1127:ASP:H	2.29	0.41
4:M:1152:ILE:HG13	12:U:44:TYR:HD2	1.84	0.41
5:N:559:SER:HA	5:N:563:MET:HB3	2.03	0.41
5:N:810:GLU:HB2	5:N:815:ARG:NH2	2.33	0.41
5:N:814:PHE:C	5:N:816:GLU:N	2.76	0.41
5:N:858:SER:HA	5:N:966:VAL:O	2.20	0.41
5:N:982:SER:HB3	5:N:1092:TYR:CE2	2.55	0.41
6:O:66:ARG:CZ	13:V:2:ILE:CG2	2.99	0.41
6:O:229:TYR:CD1	6:O:229:TYR:N	2.87	0.41
9:R:130:ILE:HB	9:R:148:VAL:HG21	2.02	0.41
3:3:5:C:O2'	3:3:6:C:H5'	2.21	0.41
4:A:388:LEU:CD2	4:A:432:VAL:HB	2.50	0.41
4:A:407:ARG:O	4:A:408:ASP:C	2.64	0.41
4:A:676:MET:O	4:A:677:ARG:C	2.64	0.41
4:A:690:VAL:O	4:A:691:LEU:C	2.64	0.41
4:A:741:ASN:ND2	4:A:741:ASN:C	2.79	0.41
4:A:857:ARG:CZ	9:F:139:PRO:HG3	2.50	0.41
4:A:858:ASN:ND2	4:A:860:LEU:N	2.59	0.41
4:A:920:LEU:C	4:A:920:LEU:CD2	2.93	0.41
4:A:1072:ILE:C	4:A:1075:PRO:HD2	2.45	0.41
4:A:1323:ASP:C	4:A:1325:THR:N	2.79	0.41
5:B:118:ARG:HH22	5:B:194:GLU:CD	2.28	0.41
5:B:685:LEU:C	5:B:687:GLU:H	2.28	0.41
5:B:1087:PHE:C	5:B:1087:PHE:CD2	2.98	0.41
5:B:1207:LEU:HD23	5:B:1210:MET:HE3	2.02	0.41
6:C:35:ARG:HH11	14:K:41:THR:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:168:ALA:C	6:C:170:TRP:H	2.28	0.41
7:D:153:ARG:C	7:D:154:PHE:CG	2.98	0.41
8:E:29:PHE:O	8:E:30:ILE:CG1	2.67	0.41
8:E:176:PRO:HB2	8:E:211:TYR:O	2.21	0.41
9:F:76:LYS:O	9:F:79:ARG:HD3	2.21	0.41
10:G:45:ILE:HD13	10:G:45:ILE:HA	1.95	0.41
15:L:28:LYS:HB2	15:L:39:SER:HB2	2.02	0.41
4:M:98:LYS:C	4:M:100:LYS:N	2.76	0.41
4:M:427:GLN:HB2	4:M:430:TRP:CD1	2.55	0.41
4:M:457:ALA:HB3	4:M:506:ALA:HA	2.02	0.41
4:M:577:ILE:HA	4:M:580:VAL:HG23	2.02	0.41
4:M:867:ILE:HG22	4:M:872:GLY:N	2.34	0.41
4:M:1074:GLU:C	4:M:1076:ALA:N	2.79	0.41
4:M:1385:THR:O	4:M:1386:ARG:C	2.62	0.41
5:N:37:PHE:CE2	5:N:542:MET:HA	2.53	0.41
5:N:635:ARG:HG3	5:N:635:ARG:NH1	2.36	0.41
5:N:799:PRO:HB3	5:N:818:PRO:HG2	2.03	0.41
7:P:13:ARG:HB2	7:P:17:LYS:NZ	2.34	0.41
7:P:170:THR:HG22	7:P:172:LEU:HG	2.03	0.41
8:Q:10:SER:O	8:Q:14:ARG:HG3	2.21	0.41
8:Q:20:LYS:O	8:Q:21:GLU:C	2.63	0.41
10:S:3:PHE:CD1	10:S:80:LYS:NZ	2.81	0.41
10:S:26:LEU:O	10:S:29:LYS:N	2.53	0.41
11:T:42:ILE:O	11:T:44:VAL:HG23	2.21	0.41
11:T:99:GLY:N	11:T:118:PHE:HD2	2.18	0.41
4:A:310:GLY:O	4:A:312:PRO:HD2	2.21	0.41
4:A:805:LEU:CD1	5:B:1052:VAL:HG21	2.48	0.41
4:A:867:ILE:O	4:A:868:TYR:C	2.63	0.41
4:A:1015:VAL:O	4:A:1016:THR:C	2.63	0.41
4:A:1226:VAL:HG22	4:A:1240:CYS:CB	2.51	0.41
4:A:1327:ILE:HG22	8:E:147:HIS:HE1	1.86	0.41
5:B:377:PHE:O	5:B:378:LEU:C	2.63	0.41
5:B:820:GLY:C	5:B:821:GLN:HG3	2.45	0.41
5:B:977:GLY:HA3	5:B:1099:VAL:HB	2.03	0.41
5:B:1072:MET:HE3	5:B:1085:ILE:HD13	2.02	0.41
6:C:238:ILE:HD11	6:C:246:ARG:NH1	2.36	0.41
6:C:256:ALA:O	6:C:258:ILE:N	2.53	0.41
7:D:4:SER:O	7:D:5:THR:CB	2.67	0.41
9:F:154:ASP:HB3	9:F:155:LEU:H	1.64	0.41
12:I:69:PRO:HG2	12:I:85:PHE:CE2	2.56	0.41
14:K:89:ASN:O	14:K:92:ASN:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:7:SER:OG	5:N:1193:GLN:NE2	2.54	0.41
4:M:34:LYS:HB2	4:M:36:ARG:HH21	1.84	0.41
4:M:95:PHE:O	4:M:98:LYS:N	2.54	0.41
4:M:130:ASP:HB3	4:M:133:LYS:HB2	2.03	0.41
4:M:531:ILE:O	4:M:531:ILE:HG12	2.19	0.41
4:M:536:LEU:O	4:M:537:ARG:C	2.64	0.41
4:M:674:PRO:C	4:M:676:MET:N	2.76	0.41
4:M:894:GLU:C	4:M:896:ARG:N	2.77	0.41
4:M:1115:SER:O	4:M:1311:VAL:HG22	2.21	0.41
4:M:1193:LEU:HB2	4:M:1260:LEU:HD11	2.03	0.41
4:M:1215:ARG:HA	4:M:1218:GLN:HG2	2.02	0.41
4:M:1279:ILE:HG23	4:M:1308:THR:OG1	2.21	0.41
5:N:222:ILE:O	5:N:240:ILE:HA	2.21	0.41
5:N:364:ILE:CG1	5:N:585:VAL:HG13	2.41	0.41
5:N:591:ARG:O	5:N:593:PRO:HD3	2.21	0.41
5:N:593:PRO:O	5:N:596:LEU:N	2.53	0.41
5:N:612:GLU:O	5:N:613:VAL:C	2.63	0.41
5:N:732:SER:HB2	5:N:734:HIS:CD2	2.56	0.41
5:N:792:MET:HE2	5:N:857:ARG:HH22	1.86	0.41
5:N:911:ILE:HD11	5:N:941:LEU:CD1	2.41	0.41
6:O:18:VAL:O	6:O:19:ASP:C	2.63	0.41
6:O:51:VAL:HG22	6:O:155:LEU:CD2	2.50	0.41
9:R:119:ARG:HH11	9:R:119:ARG:HG3	1.85	0.41
13:V:7:CYS:CB	13:V:49:MET:HE3	2.51	0.41
13:V:7:CYS:HB2	13:V:46:CYS:HB3	2.00	0.41
13:V:32:GLU:O	13:V:35:ALA:N	2.54	0.41
14:W:55:LYS:HB3	14:W:81:TYR:HD1	1.84	0.41
2:5:18:TT:H5M1	2:5:20:DC:N4	2.35	0.41
2:5:20:DC:H2''	2:5:21:DC:C5'	2.50	0.41
4:A:108:MET:O	4:A:109:HIS:HB2	2.21	0.41
4:A:205:GLU:H	4:A:205:GLU:HG3	1.76	0.41
4:A:337:ARG:HD3	5:B:1132:GLU:CD	2.44	0.41
4:A:353:ILE:HG21	4:A:487:MET:CG	2.48	0.41
4:A:356:ASP:C	4:A:358:ASN:N	2.79	0.41
4:A:396:PRO:HG3	4:A:416:ARG:HB3	2.02	0.41
4:A:533:LYS:O	4:A:535:THR:N	2.54	0.41
4:A:613:ILE:O	4:A:614:PHE:HB3	2.20	0.41
4:A:842:VAL:HG11	5:B:1136:ASP:OD2	2.21	0.41
4:A:935:GLN:O	4:A:936:LEU:C	2.63	0.41
4:A:964:ILE:O	4:A:965:GLN:C	2.63	0.41
4:A:1073:GLY:O	4:A:1076:ALA:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1171:GLN:HA	4:A:1174:PHE:HD1	1.82	0.41
4:A:1394:THR:CG2	4:A:1398:MET:SD	3.05	0.41
4:A:1446:ASP:O	4:A:1447:GLU:C	2.63	0.41
5:B:259:TYR:HD1	5:B:259:TYR:N	2.17	0.41
5:B:519:TRP:CD1	5:B:519:TRP:C	2.98	0.41
5:B:1001:PHE:CZ	5:B:1073:TYR:HB2	2.55	0.41
5:B:1002:THR:O	5:B:1004:GLU:N	2.54	0.41
5:B:1134:GLU:H	5:B:1134:GLU:CD	2.27	0.41
6:C:5:GLY:HA3	6:C:6:PRO:HD2	1.79	0.41
6:C:22:LEU:CD2	6:C:25:VAL:HG21	2.50	0.41
6:C:114:TYR:CD2	6:C:140:ASN:HB2	2.56	0.41
6:C:166:GLU:C	14:K:6:ARG:NH1	2.79	0.41
6:C:167:HIS:HA	14:K:6:ARG:HH12	1.86	0.41
6:C:254:LYS:O	6:C:255:VAL:C	2.64	0.41
8:E:207:ARG:CB	8:E:207:ARG:NH1	2.84	0.41
10:G:20:PRO:HG2	10:G:21:ARG:H	1.86	0.41
10:G:49:LEU:N	10:G:49:LEU:HD23	2.36	0.41
11:H:59:ILE:CG2	11:H:60:ALA:N	2.71	0.41
11:H:82:PRO:O	11:H:84:ALA:N	2.42	0.41
12:I:65:ASP:OD1	12:I:65:ASP:C	2.64	0.41
14:K:112:GLN:CG	14:K:112:GLN:CA	2.86	0.41
4:M:38:PRO:HA	4:M:270:LEU:HD23	2.02	0.41
4:M:67:CYS:HB3	4:M:70:CYS:HB3	2.02	0.41
4:M:185:TRP:CZ3	4:M:200:ARG:HG2	2.56	0.41
4:M:226:GLU:O	4:M:226:GLU:HG2	2.21	0.41
4:M:244:PRO:C	4:M:246:VAL:N	2.79	0.41
4:M:248:PRO:O	4:M:260:ASP:HB2	2.21	0.41
4:M:415:LEU:HD23	4:M:415:LEU:HA	1.71	0.41
4:M:418:SER:O	4:M:420:ARG:N	2.54	0.41
4:M:444:PHE:CB	4:M:458:HIS:CD2	3.03	0.41
4:M:474:VAL:HG22	4:M:478:TYR:HE1	1.85	0.41
4:M:556:TRP:C	4:M:558:GLY:H	2.29	0.41
4:M:738:LYS:HD2	4:M:740:LEU:HD21	2.03	0.41
4:M:849:MET:HE3	4:M:1061:GLY:C	2.46	0.41
4:M:1313:LEU:C	4:M:1315:GLU:H	2.29	0.41
4:M:1333:ILE:HG22	4:M:1334:ASP:N	2.35	0.41
5:N:34:ILE:O	5:N:37:PHE:N	2.54	0.41
5:N:45:SER:OG	5:N:46:GLN:N	2.52	0.41
5:N:60:GLN:O	5:N:63:ILE:HG22	2.21	0.41
5:N:95:ILE:CB	5:N:130:VAL:HG22	2.51	0.41
5:N:234:ILE:O	5:N:261:ARG:CZ	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:235:SER:O	5:N:236:HIS:HD2	2.04	0.41
5:N:244:LEU:O	5:N:245:GLU:C	2.63	0.41
5:N:358:LYS:HA	5:N:366:GLN:HB3	2.03	0.41
5:N:361:LEU:N	5:N:362:PRO:CD	2.84	0.41
5:N:371:GLU:CD	5:N:371:GLU:H	2.29	0.41
5:N:498:THR:HG23	5:N:499:ASN:N	2.36	0.41
5:N:515:HIS:CD2	5:N:517:THR:HG23	2.56	0.41
5:N:593:PRO:HG2	5:N:617:ARG:CZ	2.50	0.41
5:N:628:THR:O	5:N:628:THR:CG2	2.68	0.41
5:N:642:ASP:CA	5:N:649:LYS:HA	2.44	0.41
5:N:694:ASP:O	5:N:698:GLU:HB2	2.20	0.41
5:N:733:HIS:ND1	5:N:733:HIS:N	2.69	0.41
5:N:1099:VAL:C	5:N:1101:ASP:N	2.79	0.41
6:O:8:VAL:HG12	6:O:9:LYS:H	1.86	0.41
6:O:22:LEU:O	6:O:227:THR:HA	2.21	0.41
6:O:99:LEU:HA	6:O:119:VAL:O	2.21	0.41
6:O:100:THR:CG2	6:O:101:LEU:N	2.81	0.41
6:O:208:GLU:C	6:O:210:GLU:N	2.78	0.41
6:O:242:GLN:O	6:O:244:VAL:N	2.54	0.41
7:P:208:GLU:O	7:P:212:LYS:HG3	2.20	0.41
8:Q:90:VAL:HG22	8:Q:90:VAL:O	2.21	0.41
9:R:96:THR:O	9:R:99:LEU:HB3	2.21	0.41
10:S:127:PRO:HA	10:S:128:PRO:HD3	1.92	0.41
13:V:14:VAL:O	13:V:14:VAL:CG1	2.66	0.41
15:X:61:THR:HG22	15:X:63:ARG:HG2	2.03	0.41
2:2:18:TT:H5R1	2:2:18:TT:H1'	2.03	0.41
4:A:89:PRO:HB2	4:A:204:THR:HG21	2.02	0.41
4:A:224:PHE:CE2	4:A:234:MET:HE2	2.56	0.41
4:A:230:ARG:O	4:A:231:PRO:C	2.62	0.41
4:A:442:VAL:HB	4:A:489:LEU:HD11	2.02	0.41
4:A:444:PHE:CB	4:A:458:HIS:CD2	3.01	0.41
4:A:533:LYS:C	4:A:535:THR:N	2.78	0.41
4:A:800:VAL:HG22	4:A:812:GLU:HB3	2.03	0.41
4:A:839:ARG:O	4:A:842:VAL:HB	2.19	0.41
4:A:1111:MET:H	4:A:1111:MET:HG2	1.61	0.41
4:A:1127:ASP:O	4:A:1128:GLN:C	2.63	0.41
4:A:1445:ILE:HD12	10:G:59:GLY:O	2.21	0.41
5:B:129:PHE:CE2	5:B:166:PHE:HD1	2.39	0.41
5:B:197:PHE:CZ	5:B:816:GLU:HG2	2.56	0.41
5:B:797:TYR:HB2	5:B:852:ARG:O	2.21	0.41
5:B:984:HIS:O	5:B:985:GLY:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:51:VAL:HG22	6:C:155:LEU:HD22	2.03	0.41
6:C:94:LYS:HE3	6:C:94:LYS:HB2	1.94	0.41
7:D:146:GLN:O	7:D:149:THR:HG22	2.20	0.41
9:F:81:THR:HB	9:F:136:ARG:NH1	2.35	0.41
10:G:30:LEU:HD13	10:G:72:VAL:HG11	2.02	0.41
10:G:111:THR:HG22	10:G:113:HIS:N	2.33	0.41
10:G:115:MET:CB	10:G:116:PRO:CD	2.99	0.41
10:G:123:ALA:C	10:G:125:SER:H	2.29	0.41
4:M:273:ASN:O	4:M:274:ILE:C	2.64	0.41
4:M:299:HIS:O	4:M:301:ALA:N	2.54	0.41
4:M:438:ASP:OD1	4:M:461:LYS:HA	2.20	0.41
4:M:645:LEU:CD1	4:M:649:ILE:HG13	2.51	0.41
4:M:965:GLN:O	4:M:968:GLN:HB2	2.21	0.41
4:M:968:GLN:C	4:M:970:THR:H	2.28	0.41
4:M:1365:TYR:O	4:M:1367:HIS:N	2.53	0.41
5:N:378:LEU:HD11	5:N:382:ILE:HD11	2.03	0.41
5:N:642:ASP:CA	5:N:649:LYS:HG3	2.51	0.41
5:N:798:TYR:CE2	6:O:62:PHE:CZ	3.00	0.41
5:N:848:ARG:NH1	13:V:8:PHE:O	2.54	0.41
6:O:105:GLY:O	6:O:149:LYS:O	2.39	0.41
7:P:73:SER:O	7:P:76:LYS:C	2.63	0.41
8:Q:60:PHE:C	8:Q:60:PHE:CD2	2.98	0.41
8:Q:147:HIS:O	8:Q:148:GLU:C	2.64	0.41
8:Q:186:LEU:O	8:Q:189:GLY:N	2.54	0.41
9:R:99:LEU:O	9:R:102:SER:OG	2.31	0.41
9:R:154:ASP:HB3	9:R:155:LEU:H	1.65	0.41
10:S:154:VAL:HG12	10:S:155:SER:H	1.86	0.41
12:U:50:THR:HG23	12:U:52:ILE:HG12	2.04	0.41
15:X:53:HIS:O	15:X:55:ILE:HG12	2.21	0.41
3:6:7:A:H2'	3:6:8:G:O4'	2.21	0.40
4:A:35:ILE:HD13	4:A:241:VAL:HG11	2.03	0.40
4:A:79:GLY:HA3	4:A:243:PRO:HG3	2.03	0.40
4:A:265:LYS:HE2	4:A:322:VAL:HG13	2.04	0.40
4:A:305:ASP:CG	4:A:326:ARG:HD2	2.46	0.40
4:A:604:GLY:O	4:A:605:MET:HB2	2.21	0.40
4:A:757:ASN:HA	5:B:1021:MET:SD	2.61	0.40
4:A:1041:ALA:O	4:A:1044:TRP:HB3	2.21	0.40
4:A:1447:GLU:OE2	10:G:23:LYS:HB2	2.21	0.40
5:B:58:THR:O	5:B:62:ILE:HG13	2.22	0.40
5:B:244:LEU:O	5:B:245:GLU:C	2.63	0.40
5:B:778:MET:HE3	5:B:1094:ARG:HD3	1.97	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:954:VAL:HA	5:B:964:VAL:HG22	2.03	0.40
5:B:1060:ARG:C	5:B:1062:HIS:N	2.79	0.40
5:B:1177:HIS:C	5:B:1179:GLN:H	2.29	0.40
6:C:107:SER:C	6:C:109:SER:N	2.78	0.40
6:C:176:ILE:HG22	6:C:177:GLU:N	2.35	0.40
6:C:239:PRO:C	6:C:241:ASP:N	2.79	0.40
8:E:24:LYS:CG	8:E:25:ASP:N	2.84	0.40
11:H:39:THR:O	11:H:123:MET:HA	2.21	0.40
14:K:42:LEU:CD2	14:K:46:ILE:CD1	3.00	0.40
4:M:77:CYS:C	4:M:78:PRO:O	2.59	0.40
4:M:114:LEU:HD13	4:M:171:GLN:NE2	2.36	0.40
4:M:265:LYS:HE2	4:M:322:VAL:HG11	2.03	0.40
4:M:474:VAL:O	4:M:478:TYR:HD1	2.02	0.40
4:M:789:LYS:HE3	12:U:67:THR:OG1	2.22	0.40
4:M:932:GLU:OE1	4:M:987:VAL:HG22	2.20	0.40
5:N:317:CYS:O	5:N:318:VAL:C	2.63	0.40
5:N:478:GLY:O	5:N:479:VAL:C	2.65	0.40
5:N:510:LYS:CG	5:N:511:PRO:CD	2.87	0.40
5:N:855:PHE:HZ	5:N:857:ARG:HH12	1.69	0.40
5:N:1106:ARG:HH12	5:N:1110:PRO:HG2	1.86	0.40
5:N:1181:GLU:O	5:N:1182:CYS:HB2	2.21	0.40
6:O:187:LYS:C	6:O:189:THR:H	2.27	0.40
7:P:191:ALA:C	7:P:193:THR:H	2.29	0.40
9:R:116:ASP:HB3	9:R:119:ARG:HB2	2.03	0.40
9:R:121:ALA:O	9:R:122:MET:C	2.64	0.40
10:S:15:PRO:CG	10:S:66:GLY:HA3	2.51	0.40
10:S:62:LEU:HD23	10:S:62:LEU:HA	1.80	0.40
2:2:24:DG:OP1	5:B:857:ARG:NH2	2.54	0.40
4:A:103:CYS:SG	4:A:207:ILE:HD12	2.62	0.40
4:A:103:CYS:SG	4:A:108:MET:HE1	2.62	0.40
4:A:457:ALA:HB3	4:A:506:ALA:HA	2.02	0.40
4:A:506:ALA:C	4:A:508:PRO:HD2	2.47	0.40
4:A:701:LEU:HA	12:I:115:LYS:CE	2.47	0.40
4:A:843:LYS:CD	4:A:846:GLU:OE2	2.69	0.40
4:A:870:GLU:HG2	8:E:208:TYR:CD1	2.55	0.40
4:A:1110:ASN:OD1	4:A:1110:ASN:N	2.52	0.40
4:A:1400:CYS:O	4:A:1405:THR:HG23	2.22	0.40
4:A:1405:THR:HB	4:A:1406:VAL:H	1.52	0.40
5:B:223:VAL:HG21	5:B:380:TYR:CE2	2.57	0.40
5:B:309:GLN:O	5:B:312:GLU:HB3	2.21	0.40
5:B:911:ILE:CG2	5:B:966:VAL:HG11	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:990:ILE:CG2	5:B:991:GLY:N	2.84	0.40
5:B:1081:LEU:O	5:B:1082:MET:C	2.64	0.40
10:G:65:ASP:OD2	10:G:67:SER:HB2	2.21	0.40
13:J:23:ASN:O	13:J:25:LEU:N	2.54	0.40
4:M:103:CYS:C	4:M:105:CYS:H	2.29	0.40
4:M:332:LYS:C	4:M:334:GLY:N	2.80	0.40
4:M:388:LEU:HD22	4:M:432:VAL:HB	2.03	0.40
4:M:393:ARG:O	4:M:395:GLY:N	2.54	0.40
4:M:868:TYR:HE1	4:M:1064:VAL:HG11	1.74	0.40
4:M:871:ASP:HB3	8:Q:204:THR:HG23	2.03	0.40
4:M:913:LEU:CD1	4:M:914:GLU:N	2.75	0.40
4:M:925:LEU:C	4:M:927:VAL:N	2.78	0.40
4:M:1097:GLY:C	4:M:1099:PRO:HD2	2.47	0.40
4:M:1161:THR:HG22	4:M:1162:VAL:N	2.35	0.40
4:M:1209:MET:HE1	4:M:1236:LEU:HB3	2.03	0.40
5:N:213:ILE:O	5:N:214:ALA:C	2.64	0.40
5:N:485:ARG:NH2	5:N:782:LEU:HD11	2.36	0.40
5:N:486:TYR:OH	5:N:1096:ARG:CB	2.52	0.40
5:N:560:GLU:O	5:N:561:TRP:CD1	2.75	0.40
8:Q:85:GLU:OE2	8:Q:92:THR:HG21	2.21	0.40
10:S:29:LYS:O	10:S:30:LEU:C	2.61	0.40
11:T:83:GLN:O	11:T:85:GLY:N	2.55	0.40
11:T:99:GLY:N	11:T:118:PHE:CD2	2.89	0.40
12:U:13:MET:HG3	12:U:14:LEU:H	1.84	0.40
15:X:40:LEU:HD22	15:X:44:ASP:CB	2.50	0.40
4:A:306:ASN:ND2	4:A:322:VAL:HB	2.36	0.40
4:A:356:ASP:OD2	14:K:65:HIS:HE1	2.05	0.40
4:A:923:LEU:HA	4:A:923:LEU:HD23	1.89	0.40
4:A:939:ASP:O	4:A:940:ARG:C	2.64	0.40
4:A:1215:ARG:O	4:A:1216:ILE:C	2.62	0.40
4:A:1353:TYR:HD1	4:A:1368:MET:HE1	1.86	0.40
5:B:236:HIS:CE1	5:B:389:ALA:HA	2.57	0.40
5:B:472:ALA:HB1	5:B:474:SER:HB3	2.04	0.40
5:B:520:GLY:H	5:B:748:ILE:HG22	1.86	0.40
5:B:579:ARG:HA	5:B:589:VAL:HG13	2.04	0.40
5:B:743:ILE:H	5:B:743:ILE:HG12	1.65	0.40
5:B:877:PRO:C	5:B:878:GLN:HG3	2.47	0.40
5:B:903:VAL:CG1	5:B:904:ARG:N	2.84	0.40
5:B:1013:ASN:OD1	5:B:1015:HIS:CD2	2.75	0.40
5:B:1023:VAL:O	5:B:1024:ALA:C	2.63	0.40
5:B:1156:ASP:O	5:B:1157:ALA:O	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:23:SER:O	6:C:24:ASN:HB3	2.20	0.40
6:C:31:ASN:O	6:C:35:ARG:HG3	2.21	0.40
6:C:105:GLY:O	6:C:149:LYS:O	2.40	0.40
6:C:112:ASN:HB2	6:C:114:TYR:HE1	1.81	0.40
6:C:181:ASP:N	6:C:182:PRO:CD	2.84	0.40
7:D:138:ASN:C	7:D:140:ASP:N	2.76	0.40
7:D:195:ILE:C	7:D:197:SER:H	2.30	0.40
11:H:76:THR:O	11:H:77:ARG:O	2.39	0.40
13:J:50:ILE:C	13:J:52:THR:N	2.80	0.40
4:M:23:SER:O	4:M:26:GLU:N	2.54	0.40
4:M:70:CYS:O	4:M:70:CYS:SG	2.79	0.40
4:M:230:ARG:HB2	4:M:233:TRP:CE3	2.57	0.40
4:M:268:ASP:HB3	4:M:299:HIS:ND1	2.36	0.40
4:M:283:GLY:O	4:M:285:PRO:CD	2.69	0.40
4:M:399:HIS:CG	4:M:400:PRO:N	2.85	0.40
4:M:525:GLN:HB2	5:N:835:GLN:OE1	2.21	0.40
4:M:650:GLN:HB3	4:M:654:ASN:ND2	2.35	0.40
4:M:663:SER:HB2	5:N:827:ILE:O	2.21	0.40
4:M:824:LEU:HD23	4:M:824:LEU:HA	1.93	0.40
4:M:857:ARG:CZ	9:R:139:PRO:HG3	2.51	0.40
4:M:1036:ARG:HG2	4:M:1036:ARG:NH1	2.31	0.40
4:M:1074:GLU:HB3	4:M:1075:PRO:CD	2.51	0.40
4:M:1434:ALA:HA	4:M:1435:PRO:HD3	1.96	0.40
5:N:186:GLU:HG2	13:V:62:ARG:HH12	1.86	0.40
5:N:360:PHE:CD2	5:N:361:LEU:HB2	2.57	0.40
5:N:370:PHE:HE2	5:N:373:ARG:NH1	2.20	0.40
5:N:498:THR:CG2	5:N:499:ASN:N	2.83	0.40
5:N:641:GLU:HA	5:N:641:GLU:OE1	2.21	0.40
5:N:770:GLN:C	5:N:772:ALA:H	2.29	0.40
5:N:903:VAL:HG12	5:N:904:ARG:N	2.36	0.40
5:N:1174:LYS:O	5:N:1176:ASN:HB2	2.21	0.40
6:O:236:GLY:O	6:O:237:SER:C	2.64	0.40
7:P:29:LEU:O	7:P:30:GLY:C	2.64	0.40
8:Q:157:SER:OG	8:Q:159:ASP:HB2	2.20	0.40
9:R:116:ASP:O	9:R:119:ARG:HB3	2.21	0.40
12:U:33:SER:O	12:U:34:TYR:C	2.65	0.40
12:U:33:SER:O	12:U:34:TYR:O	2.38	0.40
12:U:99:LEU:HB2	12:U:101:PHE:CE1	2.56	0.40
3:3:3:G:H4'	4:A:323:LYS:HZ1	1.85	0.40
4:A:71:GLN:HG3	4:A:72:GLU:N	2.36	0.40
4:A:81:PHE:CZ	5:B:1208:MET:HB2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:242:PRO:HA	4:A:243:PRO:HD2	1.62	0.40
4:A:277:GLU:C	4:A:279:LEU:H	2.30	0.40
4:A:350:ARG:C	4:A:351:THR:HG23	2.47	0.40
4:A:428:TYR:HD1	4:A:428:TYR:H	1.70	0.40
4:A:659:HIS:O	5:B:1081:LEU:HD22	2.22	0.40
4:A:867:ILE:HG22	4:A:872:GLY:N	2.36	0.40
4:A:881:GLN:O	4:A:953:ASN:HA	2.21	0.40
4:A:1074:GLU:N	4:A:1075:PRO:HD2	2.36	0.40
4:A:1187:GLN:HG3	4:A:1188:GLN:H	1.87	0.40
4:A:1192:LEU:HG	4:A:1193:LEU:N	2.37	0.40
4:A:1206:ASP:CB	4:A:1274:ARG:HH12	2.28	0.40
4:A:1340:GLY:O	4:A:1342:GLU:N	2.54	0.40
5:B:100:PRO:HD3	5:B:172:ILE:HD12	2.04	0.40
5:B:591:ARG:O	5:B:593:PRO:N	2.55	0.40
5:B:593:PRO:O	5:B:594:ALA:C	2.65	0.40
5:B:642:ASP:CA	5:B:649:LYS:HG3	2.51	0.40
5:B:861:ASP:OD1	5:B:862:GLN:O	2.40	0.40
5:B:970:THR:HG22	5:B:971:THR:N	2.37	0.40
5:B:1002:THR:CG2	5:B:1006:ILE:HG13	2.50	0.40
5:B:1031:LEU:O	5:B:1034:VAL:HB	2.21	0.40
5:B:1084:GLN:N	5:B:1084:GLN:CD	2.80	0.40
5:B:1151:LEU:N	5:B:1151:LEU:HD12	2.35	0.40
6:C:92:CYS:SG	6:C:94:LYS:HB3	2.61	0.40
6:C:204:SER:C	6:C:206:ASN:N	2.78	0.40
8:E:207:ARG:HH11	8:E:207:ARG:HB3	1.86	0.40
12:I:56:ALA:O	12:I:57:GLY:O	2.39	0.40
14:K:18:LYS:O	14:K:35:PHE:HA	2.21	0.40
4:M:335:ARG:HH12	5:N:1202:LEU:HD13	1.81	0.40
4:M:675:THR:OG1	4:M:736:ASN:ND2	2.54	0.40
4:M:760:GLN:HG2	4:M:765:VAL:O	2.21	0.40
4:M:841:LEU:HD23	4:M:841:LEU:HA	1.95	0.40
4:M:858:ASN:HD21	4:M:860:LEU:HB2	1.87	0.40
4:M:955:PRO:O	4:M:956:LEU:HG	2.22	0.40
4:M:1001:ARG:O	4:M:1002:GLY:C	2.64	0.40
4:M:1027:ALA:O	4:M:1028:THR:C	2.64	0.40
4:M:1116:LEU:HD11	4:M:1118:VAL:HG13	2.04	0.40
4:M:1260:LEU:O	4:M:1260:LEU:HG	2.22	0.40
4:M:1289:ARG:NH1	4:M:1326:ARG:NH1	2.70	0.40
5:N:185:THR:O	5:N:188:ASP:HB2	2.22	0.40
5:N:244:LEU:HD11	5:N:366:GLN:HE22	1.87	0.40
5:N:487:THR:O	5:N:488:TYR:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:658:ILE:CG2	5:N:662:MET:HE2	2.52	0.40
5:N:704:ALA:HB2	5:N:738:PHE:CD2	2.56	0.40
5:N:970:THR:HG22	5:N:971:THR:H	1.85	0.40
5:N:980:PHE:HE1	5:N:990:ILE:HD11	1.87	0.40
5:N:1201:LYS:HE2	5:N:1205:GLN:CD	2.41	0.40
7:P:40:HIS:CB	10:S:73:LYS:HZ2	2.35	0.40
7:P:189:ASP:O	7:P:193:THR:HB	2.21	0.40
7:P:192:LYS:HG2	7:P:207:LEU:CD2	2.52	0.40
8:Q:23:VAL:HG13	8:Q:78:LEU:HD13	2.03	0.40
8:Q:67:GLU:O	8:Q:70:SER:HB3	2.22	0.40
12:U:32:CYS:SG	12:U:33:SER:N	2.95	0.40
12:U:106:CYS:SG	12:U:107:SER:N	2.94	0.40
2:5:18:TT:H2'2	2:5:18:TT:H6	1.79	0.40
4:A:34:LYS:HZ3	7:P:187:THR:CG2	2.32	0.40
4:A:34:LYS:HZ1	4:A:57:ARG:NH1	2.18	0.40
4:A:71:GLN:O	4:A:73:GLY:N	2.48	0.40
4:A:98:LYS:C	4:A:100:LYS:N	2.77	0.40
4:A:164:ARG:CG	4:A:165:GLY:N	2.73	0.40
4:A:699:ALA:HB2	12:I:114:GLN:NE2	2.36	0.40
4:A:805:LEU:O	5:B:761:HIS:HE1	2.05	0.40
4:A:823:GLY:O	4:A:825:ILE:N	2.55	0.40
4:A:1265:ASN:O	4:A:1266:THR:C	2.65	0.40
4:A:1381:LEU:HD23	4:A:1381:LEU:HA	1.80	0.40
4:A:1450:LEU:O	4:A:1450:LEU:CG	2.69	0.40
5:B:166:PHE:C	5:B:167:ILE:HG13	2.46	0.40
5:B:181:LEU:HD22	5:B:189:LEU:HD22	2.03	0.40
5:B:1077:THR:HG22	14:K:44:ASN:HD21	1.87	0.40
6:C:189:THR:HG22	6:C:190:ASP:H	1.86	0.40
6:C:236:GLY:O	6:C:237:SER:C	2.64	0.40
7:D:24:ALA:C	7:D:26:THR:N	2.75	0.40
8:E:48:ASP:CG	8:E:49:SER:N	2.71	0.40
8:E:127:ILE:HG13	8:E:127:ILE:O	2.21	0.40
8:E:161:LYS:HD2	8:E:195:VAL:HG23	2.04	0.40
9:F:118:LEU:O	9:F:118:LEU:CG	2.69	0.40
10:G:20:PRO:CD	10:G:21:ARG:H	2.34	0.40
12:I:101:PHE:CE1	12:I:112:SER:HB2	2.57	0.40
12:I:101:PHE:H	12:I:101:PHE:HD1	1.69	0.40
15:L:38:LEU:O	15:L:39:SER:CB	2.60	0.40
4:M:230:ARG:O	4:M:231:PRO:C	2.62	0.40
4:M:834:THR:HG21	4:M:1077:THR:HA	2.03	0.40
4:M:842:VAL:C	4:M:844:ALA:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:867:ILE:HD12	4:M:867:ILE:N	2.37	0.40
4:M:925:LEU:C	4:M:927:VAL:H	2.28	0.40
5:N:204:ILE:C	5:N:205:ILE:HD12	2.46	0.40
5:N:258:LEU:C	5:N:258:LEU:HD12	2.46	0.40
5:N:593:PRO:O	5:N:594:ALA:C	2.65	0.40
5:N:681:TRP:O	5:N:682:SER:C	2.63	0.40
7:P:13:ARG:C	7:P:17:LYS:HZ3	2.29	0.40
7:P:13:ARG:C	7:P:17:LYS:NZ	2.79	0.40
7:P:29:LEU:HD13	10:S:82:PHE:CZ	2.57	0.40
7:P:35:LEU:CD1	7:P:174:PRO:HD2	2.52	0.40
8:Q:129:PRO:O	8:Q:130:ALA:C	2.64	0.40
10:S:9:LEU:HD23	10:S:30:LEU:HD12	2.04	0.40
10:S:20:PRO:HG2	10:S:21:ARG:H	1.87	0.40
11:T:10:PHE:CE1	11:T:57:VAL:HB	2.56	0.40
14:W:88:LYS:O	14:W:89:ASN:C	2.65	0.40
14:W:89:ASN:O	14:W:91:CYS:N	2.54	0.40
15:X:52:GLY:O	15:X:53:HIS:C	2.64	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	A	1410/1733 (81%)	968 (69%)	288 (20%)	154 (11%)	0	5
4	M	1410/1733 (81%)	964 (68%)	291 (21%)	155 (11%)	0	5
5	B	1096/1224 (90%)	762 (70%)	222 (20%)	112 (10%)	0	7
5	N	1096/1224 (90%)	765 (70%)	217 (20%)	114 (10%)	0	6
6	C	264/318 (83%)	172 (65%)	64 (24%)	28 (11%)	0	6
6	O	264/318 (83%)	171 (65%)	63 (24%)	30 (11%)	0	5
7	D	173/221 (78%)	125 (72%)	27 (16%)	21 (12%)	0	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	P	173/221 (78%)	124 (72%)	32 (18%)	17 (10%)	0	7
8	E	212/215 (99%)	155 (73%)	42 (20%)	15 (7%)	1	12
8	Q	212/215 (99%)	156 (74%)	42 (20%)	14 (7%)	1	13
9	F	84/155 (54%)	67 (80%)	11 (13%)	6 (7%)	1	12
9	R	84/155 (54%)	67 (80%)	12 (14%)	5 (6%)	1	14
10	G	169/171 (99%)	125 (74%)	37 (22%)	7 (4%)	2	20
10	S	169/171 (99%)	132 (78%)	28 (17%)	9 (5%)	1	16
11	H	131/146 (90%)	87 (66%)	27 (21%)	17 (13%)	0	3
11	T	131/146 (90%)	83 (63%)	30 (23%)	18 (14%)	0	3
12	I	114/122 (93%)	83 (73%)	19 (17%)	12 (10%)	0	6
12	U	114/122 (93%)	81 (71%)	22 (19%)	11 (10%)	0	7
13	J	63/70 (90%)	35 (56%)	14 (22%)	14 (22%)	0	1
13	V	63/70 (90%)	36 (57%)	15 (24%)	12 (19%)	0	1
14	K	112/120 (93%)	86 (77%)	14 (12%)	12 (11%)	0	6
14	W	112/120 (93%)	86 (77%)	17 (15%)	9 (8%)	1	10
15	L	44/70 (63%)	16 (36%)	21 (48%)	7 (16%)	0	2
15	X	44/70 (63%)	17 (39%)	19 (43%)	8 (18%)	0	2
All	All	7744/9130 (85%)	5363 (69%)	1574 (20%)	807 (10%)	0	6

All (807) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	A	44	THR
4	A	48	ALA
4	A	57	ARG
4	A	62	ASP
4	A	65	LEU
4	A	74	MET
4	A	93	VAL
4	A	167	CYS
4	A	223	GLY
4	A	250	ILE
4	A	255	SER
4	A	286	HIS
4	A	311	GLN
4	A	318	SER

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Mol	Chain	Res	Type
4	A	322	VAL
4	A	385	ILE
4	A	399	HIS
4	A	423	ASP
4	A	483	ASP
4	A	517	ASN
4	A	536	LEU
4	A	543	LEU
4	A	567	LYS
4	A	597	LEU
4	A	666	ILE
4	A	780	VAL
4	A	847	ASP
4	A	968	GLN
4	A	969	GLN
4	A	986	ILE
4	A	1002	GLY
4	A	1036	ARG
4	A	1096	SER
4	A	1115	SER
4	A	1122	PRO
4	A	1212	VAL
4	A	1223	ASP
4	A	1233	ASP
4	A	1281	ARG
4	A	1314	SER
4	A	1341	ILE
4	A	1365	TYR
4	A	1378	GLN
4	A	1438	THR
5	B	28	GLU
5	B	45	SER
5	B	46	GLN
5	B	108	VAL
5	B	258	LEU
5	B	282	ILE
5	B	367	LEU
5	B	401	PHE
5	B	467	GLY
5	B	474	SER
5	B	613	VAL
5	B	643	ASP

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Mol	Chain	Res	Type
5	B	709	ASP
5	B	727	LYS
5	B	731	VAL
5	B	751	VAL
5	B	764	SER
5	B	831	SER
5	B	907	GLY
5	B	943	SER
5	B	945	GLU
5	B	958	GLN
5	B	1046	PRO
5	B	1069	PHE
5	B	1100	ASP
5	B	1156	ASP
5	B	1157	ALA
5	B	1167	GLY
5	B	1175	LEU
5	B	1178	ASN
5	B	1181	GLU
5	B	1182	CYS
5	B	1186	ASP
5	B	1188	LYS
6	C	6	PRO
6	C	78	GLU
6	C	87	PHE
6	C	141	GLY
6	C	149	LYS
6	C	156	THR
6	C	161	LYS
6	C	184	ASN
6	C	214	ASN
6	C	215	GLU
7	D	5	THR
7	D	8	PHE
7	D	19	GLU
7	D	20	GLU
7	D	52	LEU
7	D	131	GLU
7	D	177	VAL
7	D	199	ASN
8	E	73	PRO
8	E	74	ASP

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Mol	Chain	Res	Type
8	E	106	GLN
8	E	130	ALA
8	E	206	GLY
10	G	63	PRO
10	G	139	ILE
11	H	17	PRO
11	H	62	SER
11	H	77	ARG
11	H	81	PRO
11	H	82	PRO
11	H	128	ASN
11	H	140	ALA
12	I	9	ASP
12	I	11	ASN
12	I	79	HIS
12	I	106	CYS
13	J	2	ILE
13	J	6	ARG
13	J	17	LYS
13	J	29	GLU
13	J	32	GLU
13	J	64	ASN
14	K	7	PHE
14	K	110	ASN
15	L	35	SER
15	L	50	ASP
15	L	59	ALA
15	L	60	ARG
4	M	44	THR
4	M	48	ALA
4	M	54	ASN
4	M	57	ARG
4	M	62	ASP
4	M	65	LEU
4	M	66	LYS
4	M	74	MET
4	M	93	VAL
4	M	154	SER
4	M	167	CYS
4	M	223	GLY
4	M	255	SER
4	M	286	HIS

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Mol	Chain	Res	Type
4	M	311	GLN
4	M	318	SER
4	M	322	VAL
4	M	385	ILE
4	M	423	ASP
4	M	465	TYR
4	M	517	ASN
4	M	536	LEU
4	M	567	LYS
4	M	597	LEU
4	M	619	LYS
4	M	626	ASN
4	M	666	ILE
4	M	780	VAL
4	M	847	ASP
4	M	968	GLN
4	M	969	GLN
4	M	986	ILE
4	M	1002	GLY
4	M	1036	ARG
4	M	1096	SER
4	M	1115	SER
4	M	1122	PRO
4	M	1212	VAL
4	M	1223	ASP
4	M	1233	ASP
4	M	1281	ARG
4	M	1314	SER
4	M	1341	ILE
4	M	1365	TYR
4	M	1378	GLN
4	M	1405	THR
4	M	1438	THR
5	N	45	SER
5	N	46	GLN
5	N	108	VAL
5	N	115	GLN
5	N	258	LEU
5	N	367	LEU
5	N	467	GLY
5	N	474	SER
5	N	613	VAL

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Mol	Chain	Res	Type
5	N	643	ASP
5	N	709	ASP
5	N	731	VAL
5	N	751	VAL
5	N	831	SER
5	N	907	GLY
5	N	909	ASP
5	N	943	SER
5	N	958	GLN
5	N	1046	PRO
5	N	1097	HIS
5	N	1100	ASP
5	N	1156	ASP
5	N	1157	ALA
5	N	1167	GLY
5	N	1175	LEU
5	N	1181	GLU
5	N	1182	CYS
5	N	1188	LYS
6	O	6	PRO
6	O	87	PHE
6	O	141	GLY
6	O	149	LYS
6	O	156	THR
6	O	161	LYS
6	O	184	ASN
6	O	209	TYR
6	O	214	ASN
6	O	215	GLU
7	P	5	THR
7	P	8	PHE
7	P	19	GLU
7	P	20	GLU
7	P	52	LEU
7	P	131	GLU
7	P	177	VAL
7	P	199	ASN
8	Q	3	GLN
8	Q	36	GLU
8	Q	59	SER
8	Q	73	PRO
8	Q	74	ASP

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Mol	Chain	Res	Type
8	Q	106	GLN
8	Q	130	ALA
8	Q	206	GLY
9	R	81	THR
10	S	63	PRO
10	S	139	ILE
11	T	17	PRO
11	T	62	SER
11	T	77	ARG
11	T	81	PRO
11	T	82	PRO
11	T	128	ASN
11	T	140	ALA
12	U	3	THR
12	U	9	ASP
12	U	11	ASN
12	U	57	GLY
12	U	79	HIS
12	U	106	CYS
13	V	2	ILE
13	V	14	VAL
13	V	28	ASP
13	V	29	GLU
13	V	32	GLU
13	V	64	ASN
14	W	110	ASN
15	X	35	SER
15	X	50	ASP
15	X	59	ALA
15	X	60	ARG
4	A	42	ASP
4	A	54	ASN
4	A	59	GLY
4	A	61	ILE
4	A	66	LYS
4	A	70	CYS
4	A	73	GLY
4	A	76	GLU
4	A	148	CYS
4	A	154	SER
4	A	219	PHE
4	A	244	PRO

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Mol	Chain	Res	Type
4	A	253	ASN
4	A	283	GLY
4	A	312	PRO
4	A	331	GLY
4	A	335	ARG
4	A	336	ILE
4	A	409	SER
4	A	418	SER
4	A	439	ASN
4	A	465	TYR
4	A	544	ASP
4	A	626	ASN
4	A	753	GLY
4	A	789	LYS
4	A	825	ILE
4	A	846	GLU
4	A	871	ASP
4	A	875	ALA
4	A	1014	ALA
4	A	1054	LEU
4	A	1114	PRO
4	A	1116	LEU
4	A	1124	HIS
4	A	1277	GLU
4	A	1366	ARG
4	A	1377	THR
4	A	1386	ARG
4	A	1389	PHE
4	A	1392	SER
4	A	1395	GLY
4	A	1402	PHE
4	A	1405	THR
5	B	65	GLU
5	B	115	GLN
5	B	186	GLU
5	B	206	ASN
5	B	260	GLY
5	B	266	ALA
5	B	345	LYS
5	B	369	GLY
5	B	450	ALA
5	B	466	TRP

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Mol	Chain	Res	Type
5	B	559	SER
5	B	605	ARG
5	B	619	ILE
5	B	641	GLU
5	B	655	LYS
5	B	708	GLU
5	B	746	SER
5	B	792	MET
5	B	881	ASN
5	B	891	ASP
5	B	1041	GLU
5	B	1097	HIS
5	B	1103	ILE
5	B	1108	ARG
5	B	1155	SER
5	B	1171	VAL
5	B	1183	LYS
6	C	4	GLU
6	C	51	VAL
6	C	110	THR
6	C	175	ALA
6	C	209	TYR
6	C	213	PRO
6	C	216	GLY
6	C	240	VAL
6	C	264	GLN
7	D	6	SER
7	D	21	GLU
7	D	53	SER
7	D	192	LYS
8	E	3	GLN
8	E	36	GLU
8	E	45	LYS
8	E	59	SER
8	E	192	ARG
11	H	21	ASN
11	H	59	ILE
11	H	84	ALA
11	H	92	ASP
11	H	108	SER
12	I	3	THR
12	I	57	GLY

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Mol	Chain	Res	Type
12	I	78	CYS
12	I	113	ASP
13	J	14	VAL
13	J	28	ASP
13	J	33	GLY
14	K	53	ASP
15	L	53	HIS
4	M	42	ASP
4	M	59	GLY
4	M	61	ILE
4	M	70	CYS
4	M	76	GLU
4	M	148	CYS
4	M	219	PHE
4	M	250	ILE
4	M	253	ASN
4	M	283	GLY
4	M	312	PRO
4	M	332	LYS
4	M	335	ARG
4	M	336	ILE
4	M	394	ASN
4	M	418	SER
4	M	439	ASN
4	M	483	ASP
4	M	543	LEU
4	M	652	VAL
4	M	753	GLY
4	M	789	LYS
4	M	825	ILE
4	M	871	ASP
4	M	1014	ALA
4	M	1054	LEU
4	M	1114	PRO
4	M	1116	LEU
4	M	1124	HIS
4	M	1366	ARG
4	M	1377	THR
4	M	1386	ARG
4	M	1395	GLY
4	M	1397	LEU
4	M	1402	PHE

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Mol	Chain	Res	Type
5	N	28	GLU
5	N	186	GLU
5	N	206	ASN
5	N	259	TYR
5	N	260	GLY
5	N	266	ALA
5	N	282	ILE
5	N	283	VAL
5	N	322	PHE
5	N	345	LYS
5	N	401	PHE
5	N	450	ALA
5	N	466	TRP
5	N	605	ARG
5	N	619	ILE
5	N	641	GLU
5	N	655	LYS
5	N	708	GLU
5	N	727	LYS
5	N	764	SER
5	N	792	MET
5	N	881	ASN
5	N	891	ASP
5	N	945	GLU
5	N	1041	GLU
5	N	1065	GLN
5	N	1069	PHE
5	N	1103	ILE
5	N	1144	ALA
5	N	1155	SER
5	N	1171	VAL
5	N	1178	ASN
5	N	1183	LYS
5	N	1186	ASP
6	O	4	GLU
6	O	51	VAL
6	O	78	GLU
6	O	110	THR
6	O	175	ALA
6	O	213	PRO
6	O	216	GLY
6	O	240	VAL

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Mol	Chain	Res	Type
7	P	21	GLU
7	P	30	GLY
7	P	53	SER
7	P	192	LYS
8	Q	45	LYS
8	Q	115	ASN
11	T	21	ASN
11	T	32	THR
11	T	59	ILE
11	T	84	ALA
11	T	108	SER
12	U	34	TYR
12	U	47	GLU
12	U	78	CYS
13	V	6	ARG
13	V	17	LYS
13	V	27	GLU
13	V	33	GLY
14	W	7	PHE
14	W	53	ASP
14	W	112	GLN
15	X	53	HIS
4	A	69	THR
4	A	71	GLN
4	A	86	LEU
4	A	317	LYS
4	A	332	LYS
4	A	386	ASP
4	A	394	ASN
4	A	400	PRO
4	A	605	MET
4	A	619	LYS
4	A	731	ARG
4	A	852	TYR
4	A	895	LYS
4	A	979	SER
4	A	1120	LEU
4	A	1133	LEU
4	A	1221	LYS
4	A	1229	SER
4	A	1280	GLU
4	A	1309	ASP

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Mol	Chain	Res	Type
4	A	1397	LEU
5	B	114	PRO
5	B	229	ALA
5	B	257	LYS
5	B	259	TYR
5	B	264	SER
5	B	513	GLN
5	B	629	ASP
5	B	711	GLU
5	B	848	ARG
5	B	869	SER
5	B	951	GLN
5	B	996	ARG
5	B	1003	ALA
5	B	1065	GLN
5	B	1112	GLN
6	C	84	ARG
6	C	126	GLY
6	C	148	ARG
7	D	65	GLU
7	D	196	PRO
8	E	115	ASN
9	F	81	THR
9	F	112	GLU
9	F	150	GLU
9	F	154	ASP
10	G	17	PHE
10	G	20	PRO
11	H	32	THR
11	H	135	LEU
12	I	34	TYR
12	I	47	GLU
13	J	27	GLU
14	K	15	GLY
14	K	29	ASN
14	K	70	ARG
14	K	90	ALA
14	K	112	GLN
15	L	26	THR
4	M	8	SER
4	M	84	ILE
4	M	244	PRO

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Mol	Chain	Res	Type
4	M	263	THR
4	M	317	LYS
4	M	399	HIS
4	M	409	SER
4	M	424	ILE
4	M	544	ASP
4	M	592	ASP
4	M	605	MET
4	M	609	ASP
4	M	731	ARG
4	M	875	ALA
4	M	903	ASN
4	M	979	SER
4	M	1016	THR
4	M	1127	ASP
4	M	1165	GLU
4	M	1221	LYS
4	M	1229	SER
4	M	1277	GLU
4	M	1280	GLU
4	M	1389	PHE
5	N	48	LEU
5	N	58	THR
5	N	65	GLU
5	N	114	PRO
5	N	257	LYS
5	N	369	GLY
5	N	387	LEU
5	N	559	SER
5	N	591	ARG
5	N	629	ASP
5	N	711	GLU
5	N	746	SER
5	N	754	SER
5	N	818	PRO
5	N	848	ARG
5	N	869	SER
5	N	878	GLN
5	N	1003	ALA
5	N	1108	ARG
5	N	1136	ASP
6	O	84	ARG

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Mol	Chain	Res	Type
6	O	117	ASP
6	O	148	ARG
6	O	264	GLN
7	P	6	SER
7	P	47	LEU
7	P	65	GLU
7	P	220	LEU
8	Q	192	ARG
9	R	112	GLU
9	R	150	GLU
10	S	20	PRO
10	S	118	ASP
12	U	107	SER
12	U	113	ASP
13	V	55	ASP
14	W	29	ASN
14	W	88	LYS
14	W	90	ALA
15	X	55	ILE
4	A	8	SER
4	A	55	ASP
4	A	113	LEU
4	A	169	ASN
4	A	263	THR
4	A	290	GLU
4	A	424	ILE
4	A	525	GLN
4	A	592	ASP
4	A	609	ASP
4	A	661	GLY
4	A	958	VAL
5	B	48	LEU
5	B	56	ASP
5	B	58	THR
5	B	94	LYS
5	B	245	GLU
5	B	283	VAL
5	B	313	MET
5	B	387	LEU
5	B	540	SER
5	B	591	ARG
5	B	598	GLU

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Mol	Chain	Res	Type
5	B	752	ALA
5	B	754	SER
5	B	884	ARG
5	B	909	ASP
5	B	1017	ILE
5	B	1096	ARG
5	B	1144	ALA
7	D	9	GLN
7	D	12	ARG
7	D	218	GLU
10	G	62	LEU
10	G	154	VAL
11	H	44	VAL
11	H	52	GLN
11	H	90	ALA
12	I	107	SER
13	J	55	ASP
14	K	6	ARG
14	K	88	LYS
14	K	104	ASN
15	L	55	ILE
4	M	55	ASP
4	M	69	THR
4	M	113	LEU
4	M	169	ASN
4	M	278	THR
4	M	290	GLU
4	M	357	PRO
4	M	400	PRO
4	M	525	GLN
4	M	526	ASP
4	M	661	GLY
4	M	774	ARG
4	M	846	GLU
4	M	895	LYS
4	M	958	VAL
4	M	1067	LEU
4	M	1120	LEU
5	N	56	ASP
5	N	245	GLU
5	N	264	SER
5	N	728	ARG

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Mol	Chain	Res	Type
5	N	884	ARG
5	N	951	GLN
5	N	1017	ILE
5	N	1112	GLN
6	O	81	GLU
6	O	142	VAL
7	P	119	ARG
9	R	154	ASP
10	S	62	LEU
10	S	115	MET
10	S	154	VAL
11	T	92	ASP
11	T	135	LEU
13	V	63	TYR
15	X	26	THR
15	X	54	ARG
4	A	43	GLU
4	A	245	PRO
4	A	333	GLU
4	A	357	PRO
4	A	526	ASP
4	A	534	LEU
4	A	591	PHE
4	A	720	ARG
4	A	817	ALA
4	A	840	ARG
4	A	1127	ASP
4	A	1260	LEU
5	B	248	SER
5	B	309	GLN
5	B	365	THR
5	B	571	PRO
5	B	728	ARG
5	B	844	SER
5	B	1018	PRO
5	B	1214	PRO
6	C	81	GLU
6	C	117	ASP
6	C	142	VAL
7	D	47	LEU
7	D	119	ARG
7	D	220	LEU

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Mol	Chain	Res	Type
8	E	158	SER
13	J	51	LEU
13	J	63	TYR
4	M	226	GLU
4	M	245	PRO
4	M	331	GLY
4	M	636	GLU
4	M	649	ILE
4	M	759	ALA
4	M	1133	LEU
4	M	1260	LEU
4	M	1309	ASP
4	M	1454	MET
5	N	248	SER
5	N	389	ALA
5	N	460	ALA
5	N	461	LEU
5	N	513	GLN
5	N	531	GLN
5	N	571	PRO
5	N	598	GLU
5	N	1214	PRO
6	O	167	HIS
8	Q	138	ALA
8	Q	158	SER
11	T	44	VAL
11	T	52	GLN
14	W	15	GLY
4	A	99	ILE
4	A	111	GLY
4	A	300	VAL
4	A	410	GLY
4	A	599	SER
4	A	653	VAL
4	A	673	GLY
4	A	975	HIS
4	A	1158	PRO
5	B	124	TYR
5	B	411	PRO
5	B	480	SER
5	B	492	LEU
5	B	712	PRO

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Mol	Chain	Res	Type
6	C	212	PRO
6	C	255	VAL
8	E	44	ALA
9	F	151	LEU
10	G	115	MET
13	J	8	PHE
4	M	96	ILE
4	M	653	VAL
4	M	755	PHE
4	M	852	TYR
5	N	94	LYS
5	N	124	TYR
5	N	341	LEU
5	N	480	SER
5	N	712	PRO
5	N	894	ASP
5	N	1143	ALA
6	O	91	HIS
6	O	126	GLY
8	Q	44	ALA
10	S	17	PHE
10	S	19	GLY
11	T	90	ALA
14	W	70	ARG
4	A	492	PRO
4	A	775	ILE
4	A	1164	PRO
4	M	492	PRO
4	M	604	GLY
4	M	1164	PRO
5	N	1018	PRO
6	O	139	GLY
11	T	107	VAL
4	A	84	ILE
4	A	568	PRO
4	A	604	GLY
5	B	901	PRO
6	C	139	GLY
4	M	673	GLY
4	M	775	ILE
4	M	1098	VAL
4	M	1158	PRO

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Mol	Chain	Res	Type
5	N	55	VAL
5	N	411	PRO
4	A	78	PRO
4	A	633	VAL
4	A	1454	MET
5	B	231	PRO
5	B	1011	ILE
9	F	131	PRO
14	K	66	PRO
4	M	51	GLY
4	M	73	GLY
4	M	196	GLU
4	M	1292	PRO
4	M	1335	ILE
5	N	295	GLY
5	N	364	ILE
5	N	575	PRO
6	O	212	PRO
4	A	196	GLU
5	B	364	ILE
7	D	30	GLY
8	E	189	GLY
4	M	35	ILE
4	M	364	VAL
4	M	599	SER
4	M	765	VAL
4	M	1379	GLY
6	O	5	GLY
4	A	51	GLY
4	A	308	ILE
5	B	592	ASN
12	I	62	ILE
4	M	111	GLY
5	N	231	PRO
5	N	1110	PRO
9	R	131	PRO
8	E	129	PRO

5.3.2 Protein sidechains

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

resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	A	1244/1520 (82%)	1123 (90%)	121 (10%)	8	29
4	M	1244/1520 (82%)	1127 (91%)	117 (9%)	8	30
5	B	967/1061 (91%)	889 (92%)	78 (8%)	11	35
5	N	967/1061 (91%)	888 (92%)	79 (8%)	10	35
6	C	235/274 (86%)	211 (90%)	24 (10%)	7	27
6	O	235/274 (86%)	215 (92%)	20 (8%)	10	33
7	D	159/200 (80%)	135 (85%)	24 (15%)	3	16
7	P	159/200 (80%)	132 (83%)	27 (17%)	2	13
8	E	196/197 (100%)	190 (97%)	6 (3%)	35	57
8	Q	196/197 (100%)	190 (97%)	6 (3%)	35	57
9	F	77/137 (56%)	69 (90%)	8 (10%)	7	26
9	R	77/137 (56%)	68 (88%)	9 (12%)	5	22
10	G	152/152 (100%)	140 (92%)	12 (8%)	11	36
10	S	152/152 (100%)	139 (91%)	13 (9%)	10	33
11	H	119/128 (93%)	113 (95%)	6 (5%)	22	47
11	T	119/128 (93%)	113 (95%)	6 (5%)	22	47
12	I	110/116 (95%)	96 (87%)	14 (13%)	4	21
12	U	110/116 (95%)	94 (86%)	16 (14%)	3	17
13	J	60/65 (92%)	55 (92%)	5 (8%)	10	34
13	V	60/65 (92%)	55 (92%)	5 (8%)	10	34
14	K	99/102 (97%)	88 (89%)	11 (11%)	6	24
14	W	99/102 (97%)	87 (88%)	12 (12%)	5	21
15	L	40/57 (70%)	37 (92%)	3 (8%)	12	38
15	X	40/57 (70%)	37 (92%)	3 (8%)	12	38
All	All	6916/8018 (86%)	6291 (91%)	625 (9%)	9	32

All (625) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	A	2	VAL

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Mol	Chain	Res	Type
4	A	5	GLN
4	A	11	LEU
4	A	32	VAL
4	A	34	LYS
4	A	37	PHE
4	A	38	PRO
4	A	62	ASP
4	A	67	CYS
4	A	70	CYS
4	A	93	VAL
4	A	100	LYS
4	A	108	MET
4	A	130	ASP
4	A	198	GLU
4	A	200	ARG
4	A	208	LEU
4	A	215	SER
4	A	221	SER
4	A	245	PRO
4	A	270	LEU
4	A	302	THR
4	A	312	PRO
4	A	320	ARG
4	A	326	ARG
4	A	335	ARG
4	A	345	VAL
4	A	379	VAL
4	A	381	THR
4	A	385	ILE
4	A	404	TYR
4	A	406	ILE
4	A	407	ARG
4	A	408	ASP
4	A	425	GLN
4	A	442	VAL
4	A	443	LEU
4	A	445	ASN
4	A	449	SER
4	A	450	LEU
4	A	451	HIS
4	A	460	VAL
4	A	461	LYS

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Mol	Chain	Res	Type
4	A	462	VAL
4	A	469	ARG
4	A	493	GLN
4	A	497	THR
4	A	512	VAL
4	A	515	GLN
4	A	524	VAL
4	A	527	THR
4	A	535	THR
4	A	560	ILE
4	A	562	THR
4	A	590	ARG
4	A	629	LEU
4	A	663	SER
4	A	666	ILE
4	A	670	ILE
4	A	711	ARG
4	A	741	ASN
4	A	768	GLN
4	A	774	ARG
4	A	779	PHE
4	A	821	ARG
4	A	827	THR
4	A	831	THR
4	A	834	THR
4	A	854	ASN
4	A	858	ASN
4	A	859	SER
4	A	886	ILE
4	A	890	ASP
4	A	907	THR
4	A	929	LEU
4	A	937	VAL
4	A	940	ARG
4	A	941	LYS
4	A	969	GLN
4	A	992	ASP
4	A	1001	ARG
4	A	1006	ILE
4	A	1029	ARG
4	A	1030	ARG
4	A	1035	TYR

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Mol	Chain	Res	Type
4	A	1052	GLN
4	A	1067	LEU
4	A	1110	ASN
4	A	1116	LEU
4	A	1122	PRO
4	A	1127	ASP
4	A	1152	ILE
4	A	1170	ILE
4	A	1187	GLN
4	A	1206	ASP
4	A	1264	GLU
4	A	1271	ILE
4	A	1276	VAL
4	A	1291	VAL
4	A	1295	THR
4	A	1297	GLU
4	A	1309	ASP
4	A	1325	THR
4	A	1329	THR
4	A	1332	PHE
4	A	1333	ILE
4	A	1359	ASP
4	A	1371	LEU
4	A	1372	VAL
4	A	1376	THR
4	A	1378	GLN
4	A	1385	THR
4	A	1386	ARG
4	A	1389	PHE
4	A	1405	THR
4	A	1418	LEU
4	A	1432	GLN
4	A	1435	PRO
4	A	1443	VAL
4	A	1444	MET
4	A	1445	ILE
5	B	30	SER
5	B	57	TYR
5	B	104	GLU
5	B	106	ASP
5	B	128	LEU
5	B	175	ARG

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Mol	Chain	Res	Type
5	B	188	ASP
5	B	194	GLU
5	B	223	VAL
5	B	258	LEU
5	B	268	THR
5	B	298	LEU
5	B	323	VAL
5	B	365	THR
5	B	371	GLU
5	B	378	LEU
5	B	393	LYS
5	B	396	ASP
5	B	427	ASP
5	B	463	THR
5	B	465	ASN
5	B	466	TRP
5	B	485	ARG
5	B	487	THR
5	B	498	THR
5	B	502	ILE
5	B	513	GLN
5	B	516	ASN
5	B	557	PHE
5	B	570	VAL
5	B	582	VAL
5	B	603	LEU
5	B	615	MET
5	B	628	THR
5	B	635	ARG
5	B	644	GLU
5	B	649	LYS
5	B	682	SER
5	B	684	LEU
5	B	724	ASP
5	B	737	THR
5	B	742	GLU
5	B	748	ILE
5	B	755	ILE
5	B	790	ASP
5	B	811	TYR
5	B	835	GLN
5	B	837	ASP

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Mol	Chain	Res	Type
5	B	839	MET
5	B	858	SER
5	B	878	GLN
5	B	901	PRO
5	B	909	ASP
5	B	939	THR
5	B	953	LEU
5	B	999	MET
5	B	1002	THR
5	B	1006	ILE
5	B	1010	LEU
5	B	1034	VAL
5	B	1047	PHE
5	B	1069	PHE
5	B	1084	GLN
5	B	1095	LEU
5	B	1099	VAL
5	B	1103	ILE
5	B	1122	ARG
5	B	1123	SER
5	B	1133	MET
5	B	1159	ARG
5	B	1160	VAL
5	B	1169	MET
5	B	1170	THR
5	B	1176	ASN
5	B	1183	LYS
5	B	1202	LEU
5	B	1212	ILE
5	B	1216	LEU
6	C	8	VAL
6	C	22	LEU
6	C	56	THR
6	C	57	VAL
6	C	58	LEU
6	C	74	SER
6	C	77	ILE
6	C	89	GLU
6	C	93	ASP
6	C	99	LEU
6	C	108	GLU
6	C	129	ILE

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Mol	Chain	Res	Type
6	C	140	ASN
6	C	145	CYS
6	C	147	LEU
6	C	163	ILE
6	C	166	GLU
6	C	193	TYR
6	C	214	ASN
6	C	233	GLU
6	C	238	ILE
6	C	240	VAL
6	C	259	LEU
6	C	266	ASP
7	D	8	PHE
7	D	13	ARG
7	D	16	LYS
7	D	17	LYS
7	D	22	GLU
7	D	32	GLU
7	D	47	LEU
7	D	63	LEU
7	D	70	PHE
7	D	126	ILE
7	D	137	ASN
7	D	139	LYS
7	D	148	LEU
7	D	149	THR
7	D	151	PHE
7	D	156	ASP
7	D	170	THR
7	D	174	PRO
7	D	187	THR
7	D	192	LYS
7	D	193	THR
7	D	206	GLU
7	D	208	GLU
7	D	221	TYR
8	E	40	GLU
8	E	60	PHE
8	E	74	ASP
8	E	78	LEU
8	E	114	ASN
8	E	183	PRO

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Mol	Chain	Res	Type
9	F	79	ARG
9	F	81	THR
9	F	90	ARG
9	F	99	LEU
9	F	116	ASP
9	F	119	ARG
9	F	148	VAL
9	F	153	VAL
10	G	1	MET
10	G	13	LEU
10	G	17	PHE
10	G	45	ILE
10	G	74	TYR
10	G	78	VAL
10	G	80	LYS
10	G	88	ASP
10	G	96	GLN
10	G	115	MET
10	G	126	ASN
10	G	171	ILE
11	H	42	ILE
11	H	93	TYR
11	H	102	TYR
11	H	130	ARG
11	H	134	ASN
11	H	143	LEU
12	I	8	ARG
12	I	9	ASP
12	I	13	MET
12	I	15	TYR
12	I	34	TYR
12	I	40	SER
12	I	75	CYS
12	I	78	CYS
12	I	85	PHE
12	I	86	PHE
12	I	94	ASP
12	I	98	VAL
12	I	99	LEU
12	I	101	PHE
13	J	7	CYS
13	J	9	SER

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Mol	Chain	Res	Type
13	J	10	CYS
13	J	44	TYR
13	J	46	CYS
14	K	5	ASP
14	K	10	PHE
14	K	25	THR
14	K	41	THR
14	K	47	ARG
14	K	50	LEU
14	K	61	TYR
14	K	111	LEU
14	K	112	GLN
14	K	113	THR
14	K	114	LEU
15	L	51	CYS
15	L	55	ILE
15	L	65	VAL
4	M	2	VAL
4	M	5	GLN
4	M	11	LEU
4	M	32	VAL
4	M	34	LYS
4	M	37	PHE
4	M	38	PRO
4	M	62	ASP
4	M	67	CYS
4	M	93	VAL
4	M	100	LYS
4	M	108	MET
4	M	130	ASP
4	M	198	GLU
4	M	200	ARG
4	M	215	SER
4	M	221	SER
4	M	245	PRO
4	M	270	LEU
4	M	302	THR
4	M	312	PRO
4	M	320	ARG
4	M	335	ARG
4	M	345	VAL
4	M	381	THR

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Mol	Chain	Res	Type
4	M	385	ILE
4	M	388	LEU
4	M	404	TYR
4	M	406	ILE
4	M	407	ARG
4	M	408	ASP
4	M	425	GLN
4	M	443	LEU
4	M	445	ASN
4	M	449	SER
4	M	450	LEU
4	M	451	HIS
4	M	460	VAL
4	M	461	LYS
4	M	462	VAL
4	M	493	GLN
4	M	497	THR
4	M	500	GLU
4	M	512	VAL
4	M	515	GLN
4	M	524	VAL
4	M	527	THR
4	M	560	ILE
4	M	562	THR
4	M	590	ARG
4	M	618	GLU
4	M	629	LEU
4	M	635	ARG
4	M	664	THR
4	M	666	ILE
4	M	670	ILE
4	M	711	ARG
4	M	741	ASN
4	M	768	GLN
4	M	774	ARG
4	M	786	HIS
4	M	821	ARG
4	M	827	THR
4	M	831	THR
4	M	834	THR
4	M	854	ASN
4	M	855	THR

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Mol	Chain	Res	Type
4	M	858	ASN
4	M	859	SER
4	M	886	ILE
4	M	890	ASP
4	M	907	THR
4	M	920	LEU
4	M	929	LEU
4	M	937	VAL
4	M	940	ARG
4	M	941	LYS
4	M	969	GLN
4	M	992	ASP
4	M	1029	ARG
4	M	1030	ARG
4	M	1035	TYR
4	M	1052	GLN
4	M	1067	LEU
4	M	1110	ASN
4	M	1111	MET
4	M	1116	LEU
4	M	1122	PRO
4	M	1127	ASP
4	M	1152	ILE
4	M	1170	ILE
4	M	1187	GLN
4	M	1206	ASP
4	M	1264	GLU
4	M	1271	ILE
4	M	1276	VAL
4	M	1291	VAL
4	M	1295	THR
4	M	1297	GLU
4	M	1309	ASP
4	M	1325	THR
4	M	1329	THR
4	M	1332	PHE
4	M	1333	ILE
4	M	1359	ASP
4	M	1371	LEU
4	M	1372	VAL
4	M	1376	THR
4	M	1378	GLN

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Mol	Chain	Res	Type
4	M	1385	THR
4	M	1386	ARG
4	M	1389	PHE
4	M	1405	THR
4	M	1432	GLN
4	M	1435	PRO
4	M	1443	VAL
4	M	1445	ILE
5	N	30	SER
5	N	35	SER
5	N	57	TYR
5	N	104	GLU
5	N	106	ASP
5	N	128	LEU
5	N	175	ARG
5	N	188	ASP
5	N	194	GLU
5	N	223	VAL
5	N	258	LEU
5	N	268	THR
5	N	294	ASP
5	N	298	LEU
5	N	323	VAL
5	N	365	THR
5	N	371	GLU
5	N	378	LEU
5	N	393	LYS
5	N	396	ASP
5	N	399	ASP
5	N	427	ASP
5	N	463	THR
5	N	465	ASN
5	N	466	TRP
5	N	485	ARG
5	N	496	ARG
5	N	498	THR
5	N	502	ILE
5	N	513	GLN
5	N	516	ASN
5	N	557	PHE
5	N	582	VAL
5	N	603	LEU

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Mol	Chain	Res	Type
5	N	615	MET
5	N	628	THR
5	N	635	ARG
5	N	644	GLU
5	N	649	LYS
5	N	682	SER
5	N	684	LEU
5	N	724	ASP
5	N	737	THR
5	N	742	GLU
5	N	748	ILE
5	N	790	ASP
5	N	835	GLN
5	N	839	MET
5	N	850	LEU
5	N	858	SER
5	N	878	GLN
5	N	901	PRO
5	N	909	ASP
5	N	935	ARG
5	N	939	THR
5	N	953	LEU
5	N	999	MET
5	N	1002	THR
5	N	1006	ILE
5	N	1010	LEU
5	N	1022	THR
5	N	1034	VAL
5	N	1047	PHE
5	N	1069	PHE
5	N	1084	GLN
5	N	1095	LEU
5	N	1099	VAL
5	N	1103	ILE
5	N	1123	SER
5	N	1133	MET
5	N	1159	ARG
5	N	1160	VAL
5	N	1169	MET
5	N	1170	THR
5	N	1176	ASN
5	N	1183	LYS

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Mol	Chain	Res	Type
5	N	1202	LEU
5	N	1212	ILE
5	N	1216	LEU
6	O	22	LEU
6	O	56	THR
6	O	57	VAL
6	O	58	LEU
6	O	77	ILE
6	O	99	LEU
6	O	108	GLU
6	O	129	ILE
6	O	140	ASN
6	O	145	CYS
6	O	147	LEU
6	O	163	ILE
6	O	172	PRO
6	O	193	TYR
6	O	214	ASN
6	O	233	GLU
6	O	238	ILE
6	O	240	VAL
6	O	259	LEU
6	O	266	ASP
7	P	8	PHE
7	P	13	ARG
7	P	16	LYS
7	P	17	LYS
7	P	19	GLU
7	P	22	GLU
7	P	32	GLU
7	P	47	LEU
7	P	63	LEU
7	P	70	PHE
7	P	126	ILE
7	P	137	ASN
7	P	139	LYS
7	P	148	LEU
7	P	149	THR
7	P	152	SER
7	P	156	ASP
7	P	159	THR
7	P	170	THR

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Mol	Chain	Res	Type
7	P	174	PRO
7	P	187	THR
7	P	192	LYS
7	P	193	THR
7	P	202	ILE
7	P	206	GLU
7	P	208	GLU
7	P	221	TYR
8	Q	40	GLU
8	Q	60	PHE
8	Q	74	ASP
8	Q	78	LEU
8	Q	114	ASN
8	Q	183	PRO
9	R	79	ARG
9	R	81	THR
9	R	90	ARG
9	R	99	LEU
9	R	111	LEU
9	R	119	ARG
9	R	123	LYS
9	R	148	VAL
9	R	153	VAL
10	S	1	MET
10	S	13	LEU
10	S	17	PHE
10	S	45	ILE
10	S	49	LEU
10	S	74	TYR
10	S	78	VAL
10	S	80	LYS
10	S	88	ASP
10	S	96	GLN
10	S	115	MET
10	S	126	ASN
10	S	171	ILE
11	T	42	ILE
11	T	86	ASP
11	T	93	TYR
11	T	102	TYR
11	T	130	ARG
11	T	143	LEU

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Mol	Chain	Res	Type
12	U	8	ARG
12	U	9	ASP
12	U	13	MET
12	U	15	TYR
12	U	34	TYR
12	U	40	SER
12	U	59	VAL
12	U	75	CYS
12	U	78	CYS
12	U	85	PHE
12	U	86	PHE
12	U	94	ASP
12	U	98	VAL
12	U	99	LEU
12	U	101	PHE
12	U	106	CYS
13	V	7	CYS
13	V	9	SER
13	V	10	CYS
13	V	44	TYR
13	V	46	CYS
14	W	5	ASP
14	W	10	PHE
14	W	25	THR
14	W	41	THR
14	W	47	ARG
14	W	50	LEU
14	W	61	TYR
14	W	78	THR
14	W	111	LEU
14	W	112	GLN
14	W	113	THR
14	W	114	LEU
15	X	51	CYS
15	X	55	ILE
15	X	65	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (204) such sidechains are listed below:

Mol	Chain	Res	Type
4	A	5	GLN
4	A	54	ASN

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Mol	Chain	Res	Type
4	A	83	HIS
4	A	209	ASN
4	A	225	ASN
4	A	339	ASN
4	A	358	ASN
4	A	390	GLN
4	A	399	HIS
4	A	427	GLN
4	A	435	HIS
4	A	447	GLN
4	A	451	HIS
4	A	493	GLN
4	A	545	GLN
4	A	589	GLN
4	A	631	HIS
4	A	654	ASN
4	A	660	ASN
4	A	698	GLN
4	A	736	ASN
4	A	741	ASN
4	A	745	GLN
4	A	757	ASN
4	A	768	GLN
4	A	786	HIS
4	A	851	HIS
4	A	858	ASN
4	A	903	ASN
4	A	926	GLN
4	A	1070	GLN
4	A	1106	ASN
4	A	1140	HIS
4	A	1171	GLN
4	A	1265	ASN
4	A	1364	ASN
4	A	1387	HIS
4	A	1427	ASN
4	A	1432	GLN
5	B	47	GLN
5	B	178	ASN
5	B	236	HIS
5	B	325	GLN
5	B	363	HIS

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Mol	Chain	Res	Type
5	B	366	GLN
5	B	465	ASN
5	B	469	GLN
5	B	515	HIS
5	B	516	ASN
5	B	518	HIS
5	B	538	ASN
5	B	734	HIS
5	B	744	HIS
5	B	770	GLN
5	B	776	GLN
5	B	821	GLN
5	B	842	ASN
5	B	951	GLN
5	B	975	GLN
5	B	984	HIS
5	B	1015	HIS
5	B	1065	GLN
5	B	1076	HIS
5	B	1084	GLN
5	B	1093	GLN
5	B	1117	GLN
5	B	1179	GLN
5	B	1193	GLN
6	C	73	GLN
6	C	112	ASN
6	C	123	ASN
6	C	151	GLN
6	C	167	HIS
6	C	203	GLN
6	C	231	ASN
7	D	28	GLN
7	D	40	HIS
7	D	132	GLN
7	D	137	ASN
7	D	157	GLN
7	D	216	ASN
8	E	101	GLN
8	E	104	ASN
8	E	114	ASN
8	E	147	HIS
8	E	179	GLN

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Mol	Chain	Res	Type
9	F	104	ASN
10	G	53	ASN
10	G	102	GLN
10	G	122	ASN
10	G	126	ASN
10	G	153	GLN
10	G	158	HIS
11	H	139	ASN
12	I	12	ASN
12	I	60	GLN
12	I	89	GLN
12	I	90	GLN
13	J	53	HIS
13	J	64	ASN
14	K	44	ASN
14	K	65	HIS
14	K	76	GLN
14	K	110	ASN
4	M	5	GLN
4	M	54	ASN
4	M	64	ASN
4	M	71	GLN
4	M	83	HIS
4	M	209	ASN
4	M	225	ASN
4	M	306	ASN
4	M	339	ASN
4	M	390	GLN
4	M	399	HIS
4	M	427	GLN
4	M	435	HIS
4	M	493	GLN
4	M	515	GLN
4	M	631	HIS
4	M	654	ASN
4	M	660	ASN
4	M	698	GLN
4	M	741	ASN
4	M	742	ASN
4	M	757	ASN
4	M	768	GLN
4	M	786	HIS

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Mol	Chain	Res	Type
4	M	858	ASN
4	M	903	ASN
4	M	926	GLN
4	M	1070	GLN
4	M	1140	HIS
4	M	1171	GLN
4	M	1188	GLN
4	M	1265	ASN
4	M	1312	ASN
4	M	1364	ASN
4	M	1387	HIS
4	M	1427	ASN
4	M	1432	GLN
5	N	47	GLN
5	N	178	ASN
5	N	236	HIS
5	N	300	HIS
5	N	363	HIS
5	N	366	GLN
5	N	465	ASN
5	N	515	HIS
5	N	516	ASN
5	N	518	HIS
5	N	538	ASN
5	N	592	ASN
5	N	734	HIS
5	N	744	HIS
5	N	776	GLN
5	N	821	GLN
5	N	842	ASN
5	N	951	GLN
5	N	975	GLN
5	N	984	HIS
5	N	1015	HIS
5	N	1025	HIS
5	N	1065	GLN
5	N	1076	HIS
5	N	1084	GLN
5	N	1117	GLN
5	N	1179	GLN
5	N	1193	GLN
6	O	73	GLN

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Mol	Chain	Res	Type
6	O	112	ASN
6	O	123	ASN
6	O	131	HIS
6	O	151	GLN
6	O	167	HIS
6	O	231	ASN
7	P	28	GLN
7	P	39	ASN
7	P	40	HIS
7	P	132	GLN
7	P	137	ASN
7	P	157	GLN
8	Q	8	ASN
8	Q	99	HIS
8	Q	101	GLN
8	Q	104	ASN
8	Q	114	ASN
8	Q	146	HIS
8	Q	147	HIS
9	R	104	ASN
10	S	53	ASN
10	S	102	GLN
10	S	113	HIS
10	S	122	ASN
10	S	126	ASN
11	T	139	ASN
12	U	12	ASN
12	U	51	ASN
12	U	90	GLN
13	V	53	HIS
13	V	64	ASN
14	W	44	ASN
14	W	65	HIS
14	W	76	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
3	3	9/11 (81%)	1 (11%)	0
3	6	9/11 (81%)	1 (11%)	0
All	All	18/22 (81%)	2 (11%)	0

All (2) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
3	3	3	G
3	6	3	G

There are no RNA pucker outliers to report.

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

4 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	TT	2	18	2	40,43,44	4.85	8 (20%)	58,69,72	2.20	14 (24%)
2	BRU	5	22	3,2	18,21,22	0.41	0	25,30,33	1.24	3 (12%)
2	BRU	2	22	3,2	18,21,22	0.42	0	25,30,33	1.16	2 (8%)
2	TT	5	18	2	40,43,44	4.84	7 (17%)	58,69,72	2.21	13 (22%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	TT	2	18	2	-	10/18/105/106	0/5/6/6
2	BRU	5	22	3,2	-	2/7/21/22	0/2/2/2
2	BRU	2	22	3,2	-	2/7/21/22	0/2/2/2
2	TT	5	18	2	-	10/18/105/106	0/5/6/6

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	5	18	TT	C5-C6	-21.70	1.31	1.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	18	TT	C5-C6	-21.55	1.31	1.55
2	2	18	TT	C5T-C6T	-20.03	1.33	1.55
2	5	18	TT	C5T-C6T	-19.68	1.33	1.55
2	2	18	TT	C6-N1	-4.30	1.39	1.46
2	5	18	TT	C6-N1	-4.06	1.40	1.46
2	5	18	TT	C6T-N1T	-4.04	1.40	1.46
2	2	18	TT	C6T-N1T	-3.89	1.40	1.46
2	2	18	TT	C6T-C6	3.31	1.65	1.56
2	5	18	TT	C6T-C6	3.28	1.65	1.56
2	5	18	TT	C5T-C4T	-3.14	1.46	1.51
2	2	18	TT	C5T-C4T	-2.95	1.46	1.51
2	5	18	TT	C1R-N1T	2.75	1.49	1.45
2	2	18	TT	C1'-N1	2.39	1.48	1.45
2	2	18	TT	C1R-N1T	2.29	1.48	1.45

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5	18	TT	C5T-C5-C6	8.03	97.75	88.36
2	2	18	TT	C5T-C5-C6	7.52	97.15	88.36
2	2	18	TT	C5-C6-N1	6.59	124.39	115.65
2	5	18	TT	C5-C6-C6T	-6.53	79.23	89.26
2	2	18	TT	C5-C6-C6T	-6.33	79.54	89.26
2	5	18	TT	C5-C6-N1	6.26	123.95	115.65
2	5	18	TT	C5-C5T-C6T	-5.71	81.69	88.36
2	2	18	TT	C5-C5T-C6T	-5.57	81.86	88.36
2	2	18	TT	C5T-C6T-N1T	5.22	122.58	115.65
2	5	18	TT	C5T-C6T-N1T	5.21	122.56	115.65
2	5	22	BRU	C6-C5-C4	-3.14	117.49	120.67
2	5	22	BRU	BR-C5-C6	3.08	124.95	120.64
2	2	22	BRU	C6-C5-C4	-3.06	117.56	120.67
2	2	18	TT	O4-C4-C5	2.98	125.49	122.71
2	2	22	BRU	O3'-C3'-C2'	-2.98	100.52	110.88
2	5	22	BRU	O3'-C3'-C2'	-2.84	101.00	110.88
2	2	18	TT	C6-C6T-N1T	2.78	128.89	118.51
2	5	18	TT	O4-C4-C5	2.63	125.16	122.71
2	5	18	TT	O4T-C4T-C5T	2.59	125.13	122.71
2	5	18	TT	C6-C6T-N1T	2.55	128.03	118.51
2	5	18	TT	N3-C2-N1	-2.50	114.16	116.78
2	2	18	TT	C5A-C5-C4	-2.50	104.08	108.19
2	2	18	TT	C5T-C6T-C6	2.49	93.09	89.26
2	5	18	TT	C5T-C6T-C6	2.47	93.07	89.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2	18	TT	N3T-C2T-N1T	-2.47	114.20	116.78
2	2	18	TT	O4T-C4T-C5T	2.45	124.99	122.71
2	5	18	TT	N3T-C2T-N1T	-2.35	114.33	116.78
2	2	18	TT	N3-C2-N1	-2.31	114.37	116.78
2	5	18	TT	C5A-C5-C4	-2.16	104.65	108.19
2	5	18	TT	C5A-C5-C6	-2.15	108.00	114.44
2	2	18	TT	C5A-C5-C6	-2.12	108.08	114.44
2	2	18	TT	C5T-C5-C4	2.06	119.52	112.84

There are no chirality outliers.

All (24) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	2	18	TT	C3R-C4R-C5R-O5R
2	5	18	TT	C3R-C4R-C5R-O5R
2	2	18	TT	O4R-C4R-C5R-O5R
2	5	18	TT	O4R-C4R-C5R-O5R
2	2	18	TT	C2'-C1'-N1-C6
2	5	18	TT	C2'-C1'-N1-C6
2	2	18	TT	C2'-C1'-N1-C2
2	5	18	TT	C2'-C1'-N1-C2
2	2	18	TT	O4'-C4'-C5'-O5'
2	5	18	TT	O4'-C4'-C5'-O5'
2	2	18	TT	O4'-C1'-N1-C2
2	5	18	TT	O4'-C1'-N1-C2
2	5	22	BRU	O4'-C4'-C5'-O5'
2	2	18	TT	O4'-C1'-N1-C6
2	5	18	TT	O4'-C1'-N1-C6
2	2	22	BRU	O4'-C4'-C5'-O5'
2	5	22	BRU	C3'-C4'-C5'-O5'
2	5	18	TT	C2R-C1R-N1T-C6T
2	2	22	BRU	C3'-C4'-C5'-O5'
2	5	18	TT	O4R-C1R-N1T-C6T
2	2	18	TT	C3'-C4'-C5'-O5'
2	5	18	TT	C3'-C4'-C5'-O5'
2	2	18	TT	C2R-C1R-N1T-C6T
2	2	18	TT	O4R-C1R-N1T-C6T

There are no ring outliers.

4 monomers are involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	2	18	TT	4	0
2	5	22	BRU	3	0
2	2	22	BRU	4	0
2	5	18	TT	4	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 18 ligands modelled in this entry, 18 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 [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
5	B	2
5	N	2
6	O	1
6	C	1
9	F	1
9	R	1
4	M	1
4	A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O	2:SER	C	3:GLU	N	4.13
1	C	2:SER	C	3:GLU	N	4.09
1	B	18:PHE	C	19:GLU	N	3.79
1	N	18:PHE	C	19:GLU	N	3.71
1	F	69:LEU	C	70:LYS	N	3.56
1	R	69:LEU	C	70:LYS	N	3.53
1	M	1175:SER	C	1176:LEU	N	3.43
1	A	1175:SER	C	1176:LEU	N	3.38
1	B	337:ARG	C	338:GLY	N	2.66
1	N	337:ARG	C	338:GLY	N	2.58

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	1	7/14 (50%)	-0.29	0 100 100	123, 130, 149, 149	0
1	4	7/14 (50%)	-0.06	0 100 100	120, 128, 147, 148	0
2	2	16/25 (64%)	0.03	0 100 100	84, 130, 151, 155	0
2	5	16/25 (64%)	-0.06	0 100 100	87, 132, 150, 153	0
3	3	10/11 (90%)	-0.39	0 100 100	95, 100, 152, 155	0
3	6	10/11 (90%)	-0.21	1 (10%) 12 15	95, 102, 153, 156	0
4	A	1421/1733 (81%)	-0.78	3 (0%) 91 81	22, 88, 163, 200	0
4	M	1421/1733 (81%)	-0.79	4 (0%) 90 78	20, 88, 163, 200	0
5	B	1115/1224 (91%)	-0.67	1 (0%) 92 87	24, 101, 175, 200	0
5	N	1115/1224 (91%)	-0.70	3 (0%) 90 78	23, 101, 174, 200	0
6	C	267/318 (83%)	-0.84	0 100 100	49, 88, 147, 173	0
6	O	267/318 (83%)	-0.83	0 100 100	52, 87, 148, 170	0
7	D	177/221 (80%)	-0.62	0 100 100	72, 121, 166, 183	0
7	P	177/221 (80%)	-0.55	0 100 100	71, 124, 166, 182	0
8	E	214/215 (99%)	-0.56	0 100 100	60, 145, 193, 197	0
8	Q	214/215 (99%)	-0.58	0 100 100	58, 145, 194, 197	0
9	F	87/155 (56%)	-0.89	0 100 100	31, 62, 108, 140	0
9	R	87/155 (56%)	-0.94	0 100 100	31, 63, 109, 138	0
10	G	171/171 (100%)	-0.88	0 100 100	64, 91, 136, 146	0
10	S	171/171 (100%)	-0.84	0 100 100	65, 92, 136, 143	0
11	H	135/146 (92%)	-0.44	1 (0%) 84 65	101, 145, 182, 192	0
11	T	135/146 (92%)	-0.43	0 100 100	99, 146, 181, 191	0
12	I	116/122 (95%)	-0.46	1 (0%) 81 60	82, 139, 170, 195	0
12	U	116/122 (95%)	-0.40	1 (0%) 81 60	81, 138, 170, 194	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	J	65/70 (92%)	-0.93	0 100 100	52, 83, 128, 133	0
13	V	65/70 (92%)	-0.91	0 100 100	46, 81, 130, 136	0
14	K	114/120 (95%)	-0.82	2 (1%) 67 46	48, 92, 120, 170	0
14	W	114/120 (95%)	-0.79	2 (1%) 67 46	47, 92, 118, 167	0
15	L	46/70 (65%)	-0.44	0 100 100	86, 155, 179, 186	0
15	X	46/70 (65%)	-0.40	0 100 100	84, 156, 179, 185	0
All	All	7922/9230 (85%)	-0.72	19 (0%) 91 81	20, 99, 173, 200	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	A	1081	LEU	5.6
4	M	1092	LYS	4.7
12	U	60	GLN	4.5
12	I	60	GLN	3.9
14	W	113	THR	3.5
4	A	1092	LYS	3.4
4	M	1081	LEU	3.4
14	K	113	THR	3.2
14	W	114	LEU	3.1
14	K	114	LEU	3.0
11	H	86	ASP	3.0
4	M	1455	PRO	2.7
5	N	884	ARG	2.5
5	N	666	TYR	2.3
5	N	262	GLU	2.2
5	B	734	HIS	2.2
3	6	1	U	2.1
4	M	1257	ASP	2.1
4	A	333	GLU	2.0

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	BRU	2	22	20/21	0.98	0.06	69,76,80,84	0
2	TT	2	18	38/39	0.98	0.08	93,106,123,125	0
2	TT	5	18	38/39	0.98	0.08	95,108,126,127	0
2	BRU	5	22	20/21	0.99	0.05	77,84,87,89	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
17	ZN	I	2457	1/1	0.99	0.02	199,199,199,199	0
16	MG	M	2459	1/1	1.00	0.02	34,34,34,34	0
17	ZN	A	2471	1/1	1.00	0.01	90,90,90,90	0
17	ZN	A	2472	1/1	1.00	0.01	52,52,52,52	0
17	ZN	B	2457	1/1	1.00	0.02	53,53,53,53	0
17	ZN	C	2457	1/1	1.00	0.02	48,48,48,48	0
16	MG	A	2457	1/1	1.00	0.02	50,50,50,50	0
17	ZN	I	2458	1/1	1.00	0.01	94,94,94,94	0
17	ZN	J	2457	1/1	1.00	0.02	70,70,70,70	0
17	ZN	L	2457	1/1	1.00	0.02	116,116,116,116	0
17	ZN	M	2457	1/1	1.00	0.01	87,87,87,87	0
17	ZN	M	2458	1/1	1.00	0.01	51,51,51,51	0
17	ZN	N	2457	1/1	1.00	0.02	54,54,54,54	0
17	ZN	O	2457	1/1	1.00	0.01	39,39,39,39	0
17	ZN	U	2457	1/1	1.00	0.02	91,91,91,91	0
17	ZN	U	2458	1/1	1.00	0.02	178,178,178,178	0
17	ZN	V	2457	1/1	1.00	0.02	67,67,67,67	0
17	ZN	X	2457	1/1	1.00	0.02	120,120,120,120	0

6.5 Other polymers [i](#)

There are no such residues in this entry.