



Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Sep 3, 2017 – 11:34 PM EDT

PDB ID : 5VKU
EMDB ID: : EMD-8703
Title : An atomic structure of the human cytomegalovirus (HCMV) capsid with its
securing layer of pp150 tegument protein
Authors : Yu, X.; Jih, J.; Jiang, J.; Zhou, H.
Deposited on : unknown
Resolution : 3.90 Å(reported)

This is a Full wwPDB/EMDatabank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20029824

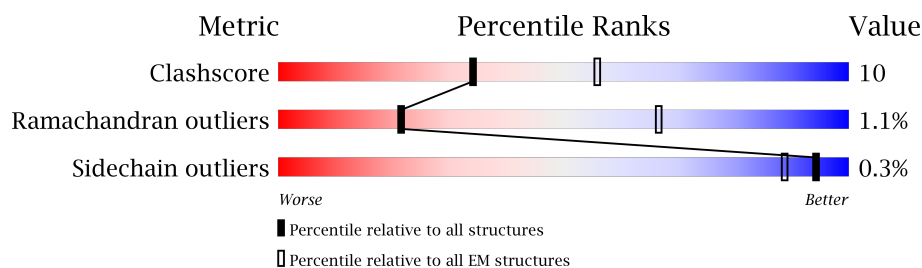
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.90 Å.

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




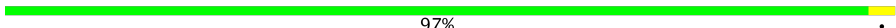
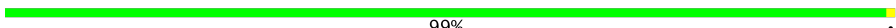
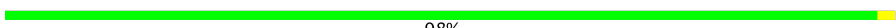
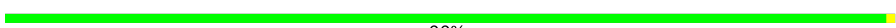








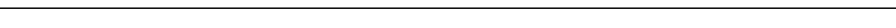











Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	125131	1336
Ramachandran outliers	121729	1120
Sidechain outliers	121581	1026

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	0	285	
1	1	285	
1	2	285	
1	3	285	
1	4	285	
1	5	285	
1	6	285	
1	7	285	
1	8	285	












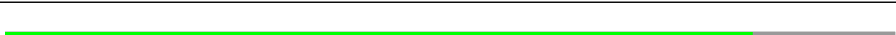

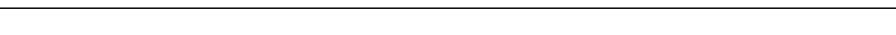
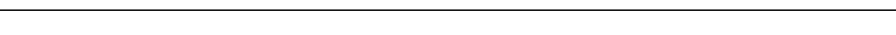
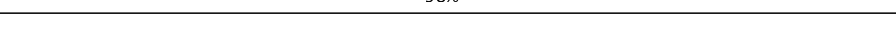
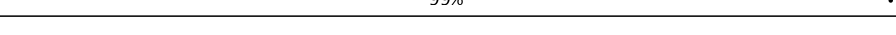
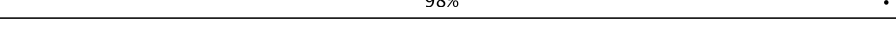
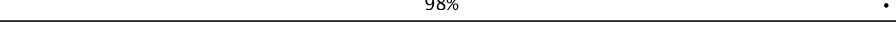
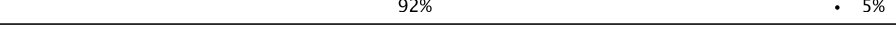
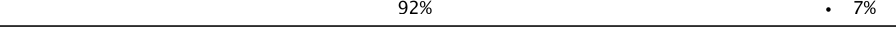
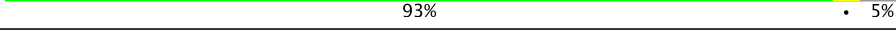
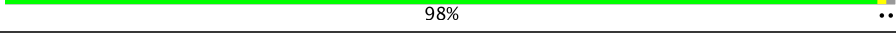
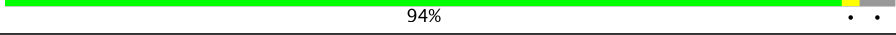
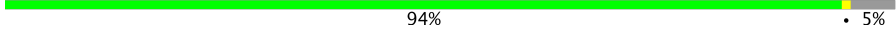
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Mol	Chain	Length	Quality of chain
1	9	285	
1	v	285	
1	w	285	
1	x	285	
1	y	285	
1	z	285	
2	A	1370	
2	B	1370	
2	C	1370	
2	D	1370	
2	E	1370	
2	F	1370	
2	G	1370	
2	H	1370	
2	I	1370	
2	J	1370	
2	K	1370	
2	L	1370	
2	M	1370	
2	N	1370	
2	O	1370	
2	P	1370	
3	Q	75	
3	R	75	
3	S	75	

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Mol	Chain	Length	Quality of chain
3	T	75	
3	U	75	
3	V	75	
3	W	75	
3	X	75	
3	Y	75	
3	Z	75	
3	a	75	
3	b	75	
3	c	75	
3	d	75	
3	e	75	
3	f	75	
4	g	290	
4	j	290	
4	m	290	
4	p	290	
4	s	290	
5	h	306	
5	i	306	
5	k	306	
5	l	306	
5	n	306	
5	o	306	
5	q	306	

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Mol	Chain	Length	Quality of chain
5	r	306	<div><div></div><div>97%</div><div>..</div></div>
5	t	306	<div><div></div><div>95%</div><div>..</div></div>
5	u	306	<div><div></div><div>98%</div><div>..</div></div>

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 248627 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Tegument protein pp150.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	1	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	2	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	3	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	4	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	5	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	6	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	7	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	8	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	9	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	v	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	w	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	x	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	y	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		
1	z	285	Total	C	N	O	S	0	0
			2328	1468	426	421	13		

- Molecule 2 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A	1329	Total	C	N	O	S	0	0
			10527	6711	1822	1933	61		
2	B	1335	Total	C	N	O	S	0	0
			10574	6733	1830	1950	61		
2	C	1349	Total	C	N	O	S	0	0
			10686	6805	1852	1968	61		
2	D	1346	Total	C	N	O	S	0	0
			10670	6796	1849	1964	61		
2	E	1347	Total	C	N	O	S	0	0
			10676	6799	1850	1966	61		
2	F	1350	Total	C	N	O	S	0	0
			10693	6809	1853	1970	61		
2	G	1351	Total	C	N	O	S	0	0
			10705	6816	1854	1974	61		
2	H	1352	Total	C	N	O	S	0	0
			10710	6819	1855	1975	61		
2	I	1347	Total	C	N	O	S	0	0
			10676	6799	1850	1966	61		
2	J	1335	Total	C	N	O	S	0	0
			10581	6739	1837	1945	60		
2	K	1348	Total	C	N	O	S	0	0
			10681	6802	1851	1967	61		
2	L	1353	Total	C	N	O	S	0	0
			10717	6823	1856	1977	61		
2	M	1353	Total	C	N	O	S	0	0
			10717	6823	1856	1977	61		
2	N	1350	Total	C	N	O	S	0	0
			10693	6809	1853	1970	61		
2	O	1348	Total	C	N	O	S	0	0
			10681	6802	1851	1967	61		
2	P	1348	Total	C	N	O	S	0	0
			10681	6802	1851	1967	61		

- Molecule 3 is a protein called Small capsomere-interacting protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Q	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	R	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	S	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	T	63	Total	C	N	O	S	0	0
			513	321	97	91	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	U	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	V	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	W	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	X	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	Y	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	Z	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	a	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	b	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	c	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	d	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	e	63	Total	C	N	O	S	0	0
			513	321	97	91	4		
3	f	63	Total	C	N	O	S	0	0
			513	321	97	91	4		

- Molecule 4 is a protein called Triplex capsid protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	g	260	Total	C	N	O	S	0	0
			2091	1344	365	371	11		
4	j	290	Total	C	N	O	S	0	0
			2325	1485	411	417	12		
4	m	290	Total	C	N	O	S	0	0
			2325	1485	411	417	12		
4	p	290	Total	C	N	O	S	0	0
			2325	1485	411	417	12		
4	s	290	Total	C	N	O	S	0	0
			2325	1485	411	417	12		

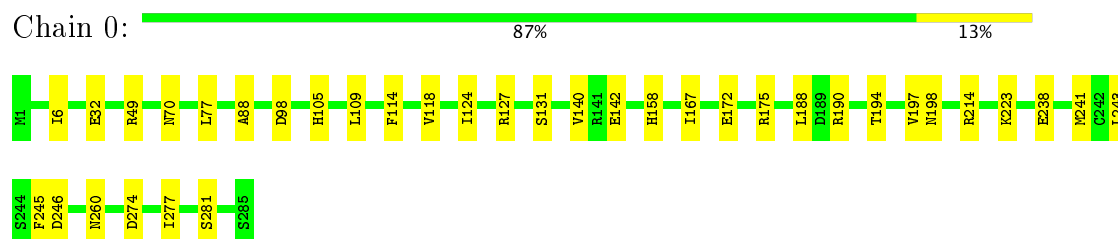
- Molecule 5 is a protein called Triplex capsid protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	h	292	Total	C	N	O	S	0	0
			2316	1490	399	409	18		
5	i	285	Total	C	N	O	S	0	0
			2258	1454	386	401	17		
5	k	292	Total	C	N	O	S	0	0
			2317	1491	399	408	19		
5	l	303	Total	C	N	O	S	0	0
			2406	1541	419	428	18		
5	n	295	Total	C	N	O	S	0	0
			2334	1501	402	412	19		
5	o	291	Total	C	N	O	S	0	0
			2311	1484	398	411	18		
5	q	295	Total	C	N	O	S	0	0
			2334	1501	402	412	19		
5	r	304	Total	C	N	O	S	0	0
			2411	1544	420	429	18		
5	t	296	Total	C	N	O	S	0	0
			2342	1505	403	415	19		
5	u	304	Total	C	N	O	S	0	0
			2411	1544	420	429	18		

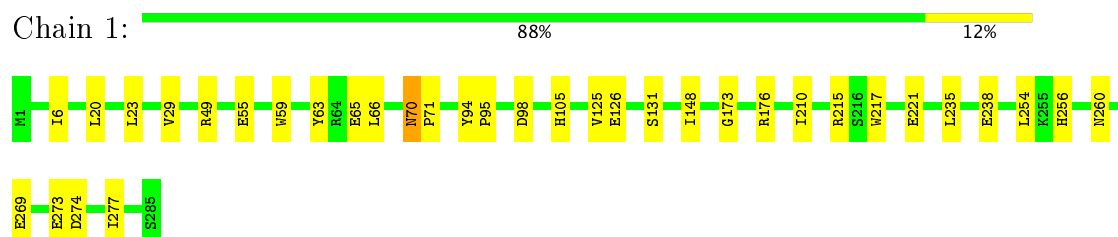
3 Residue-property plots [i](#)

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

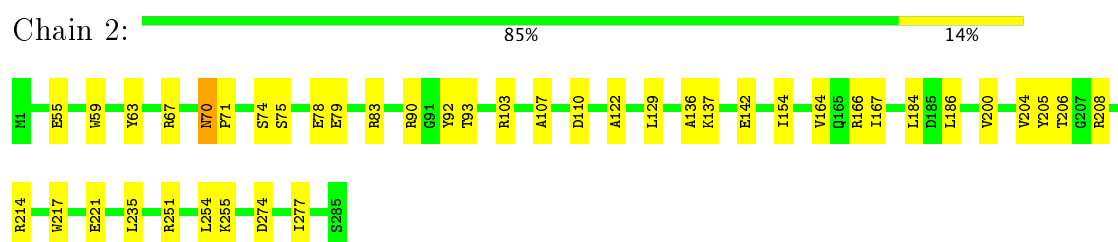
- Molecule 1: Tegument protein pp150



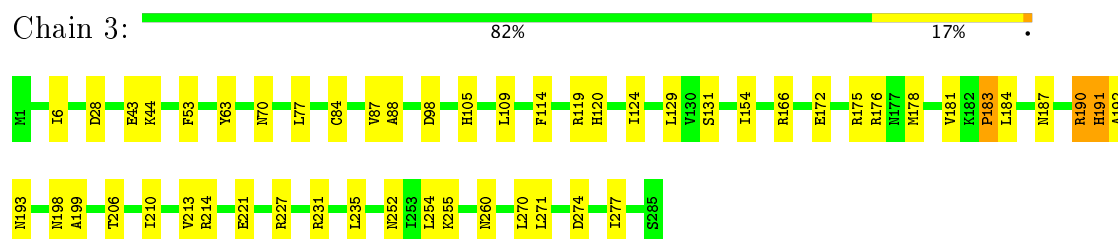
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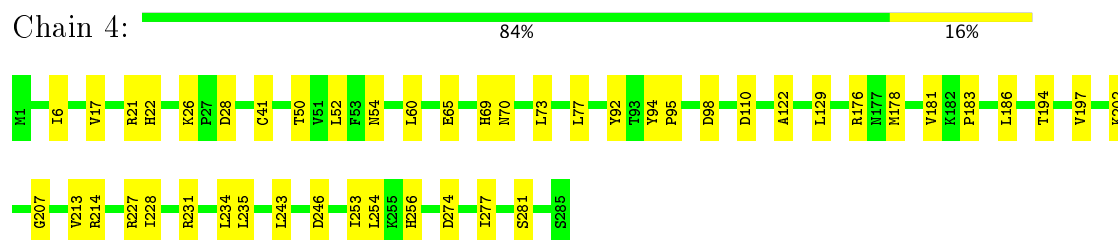
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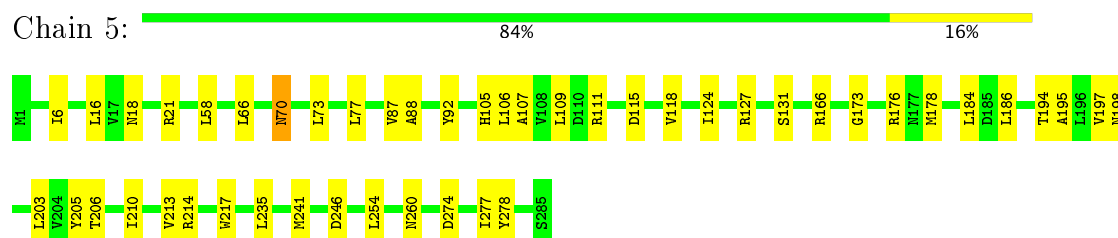
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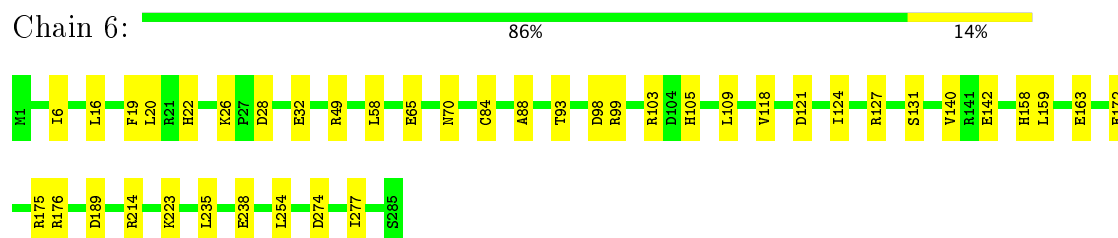
- Molecule 1: Tegument protein pp150



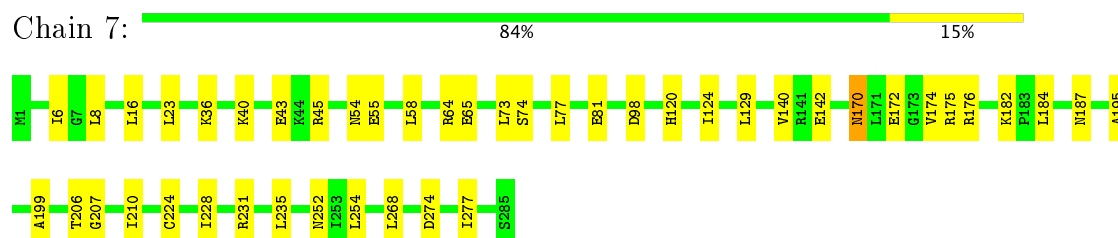
- Molecule 1: Tegument protein pp150



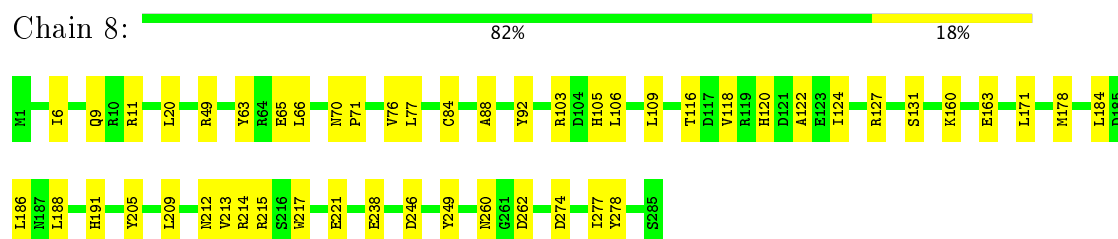
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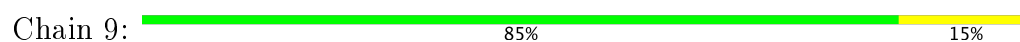
- Molecule 1: Tegument protein pp150

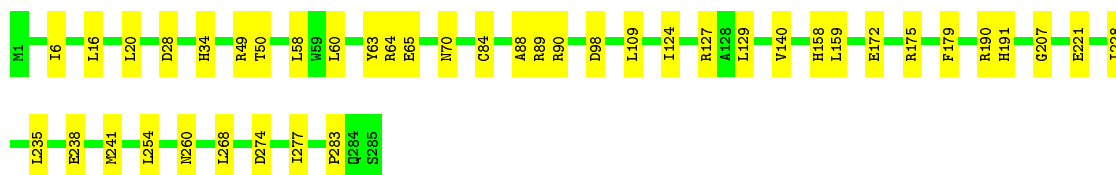


- Molecule 1: Tegument protein pp150



- Molecule 1: Tegument protein pp150





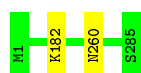
- Molecule 1: Tegument protein pp150

Chain v: 97%



- Molecule 1: Tegument protein pp150

Chain w: 99%



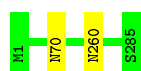
- Molecule 1: Tegument protein pp150

Chain x: 98%



- Molecule 1: Tegument protein pp150

Chain y: 99%



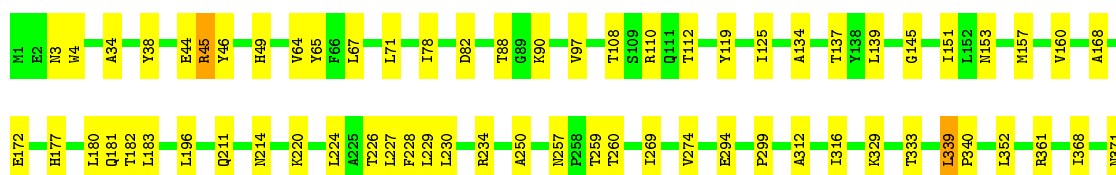
- Molecule 1: Tegument protein pp150

Chain z: 99%



- Molecule 2: Major capsid protein

Chain A: 68% 28%

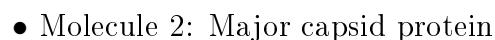


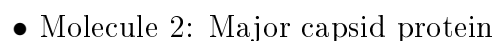
F1344	C1238	Y1122	V1037	G920	THR	H722	E572	P457	L372
S1347	L1239	R1123	R1038	V923	ALA	R725	L573	A458	R373
H1350	S1240	H1124	D1041	V924	SER	R726	I578	P459	R374
Y1354	V1242	E1126	F1042	A926	SER	V732	P587	P469	V375
	L1243	V1127	E1043	F927	GLY	V733	T600	P470	
	V1244	D1128	V1044	L930	THR				
V1356	N1245				THR	P738	P607	M475	L385
G1357	R1249	R1132	L1047	S934	SER	L739	G610	R477	E386
E1358	E1250	E1138	L1048	L935	LYS		Y611	L478	R387
I1359			Y1049	P936	GLU	E745	H618	L479	
P1361	L1143	L1143	K1052	V937	THR	A746	H618	E480	V389
L1362	Y1254	P1361	S1053	P938	SER	R747	H618	D476	
Q1363			T1054	F939	GLY	H749		R477	D390
L1364	P1261	SER	G1054	Y943	VAL	G750	A623	Q484	L391
S1365	C1262	GLU	S1056	I943	THR	V751			
M1366		ARG	I1057	S944	PRO	S752	I627	M488	Y400
L1367	F1266	ASN	N945	N945	GLU	R756	F630	I495	E403
F1368	T1277	A1161	I1059	P946	ASP		R633	P496	ASP
M1369			M1060	T947	S845			R502	GLY
S1370		A1171	N1061	Y948	I846	A762			THR
	K1280		P1062				M638		TTR
	A1289	T1177	I1063	I952	Q849	L766		Q514	VAL
	I1293	P1178	T1064	R958	V861	F767	L645	V517	GLU
	L1294	V1179	T1065	V959	E862	D769	L653	V518	SER
		M1181		V960	D863	D770		F521	LYS
	D1182	D1182	I1071		V864	Y771	I657	V522	VAL
D1298		Y1185	S1072	V966	A865	T774	L661	R523	LYS
T1299		F1186	T1073	H967	L872		P667	ASN	LEU
Q1300		K1187	H1076	F973	C876	M778	L670	V524	ASP
G1306		N1190	T1077	P976	R877	K782		R526	T419
	Q1309	M1191	Q1078	T977	E878	W783	L683	V530	L424
L1310	L1310	P1192	M1080	A978				H534	P425
E1312	I1311	R1193	R1081	F979	A882	T793	L683	P535	T426
N1313	E1312	G1194	N1082	A980	V883			F536	T427
P1314	N1313	R1195	T1083		Q884	R796	I687	R555	L430
		V1202	G1089	Y983		A797	S688		L431
C1315	R1316	P1204	D1203	R988	G887	C798	L693	F537	R432
			P1204	S989	H889	G799	H694	Q543	R433
Q1319		E1208	R1103	P990	V890	K905	M695	R555	D434
E1320	A1321	A1209	D1105	R993	K891	T806	L703		R435
L1322	A1210	A1210	M1106	S1004	E894	L808	S704	N560	Q438
P1323		H1217	G1107	T1005	V895	D810	Y706	L561	
T1324			V1108	M1006	H901	L811	L710	P562	D441
S1326	T1224	T1224	R1109	T1007	R904	F812	H711	D563	F442
T1327	F1285	F1285	V1110		Q905	Y813	D712	L565	
		A1226		H1029	P1030	A816		A566	A445
M1333		A1227	L1113	O129		F817	L715	P567	H451
L1337		T1228	V1116	L1034	V916	W716	H716	G568	P452
K1338		H1229		T1035	L917	P717	P717		V453
			M1110	A1036	Y918	A749		H571	

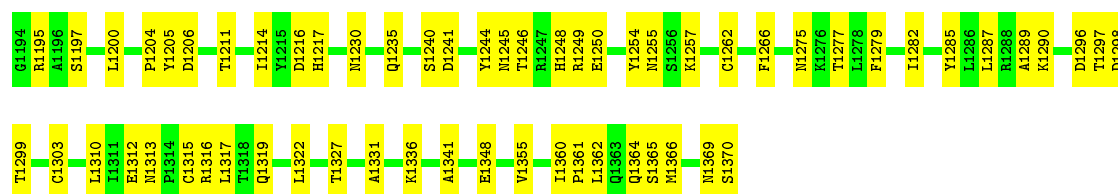
• Molecule 2: Major capsid protein

Chain B:  66% 31%

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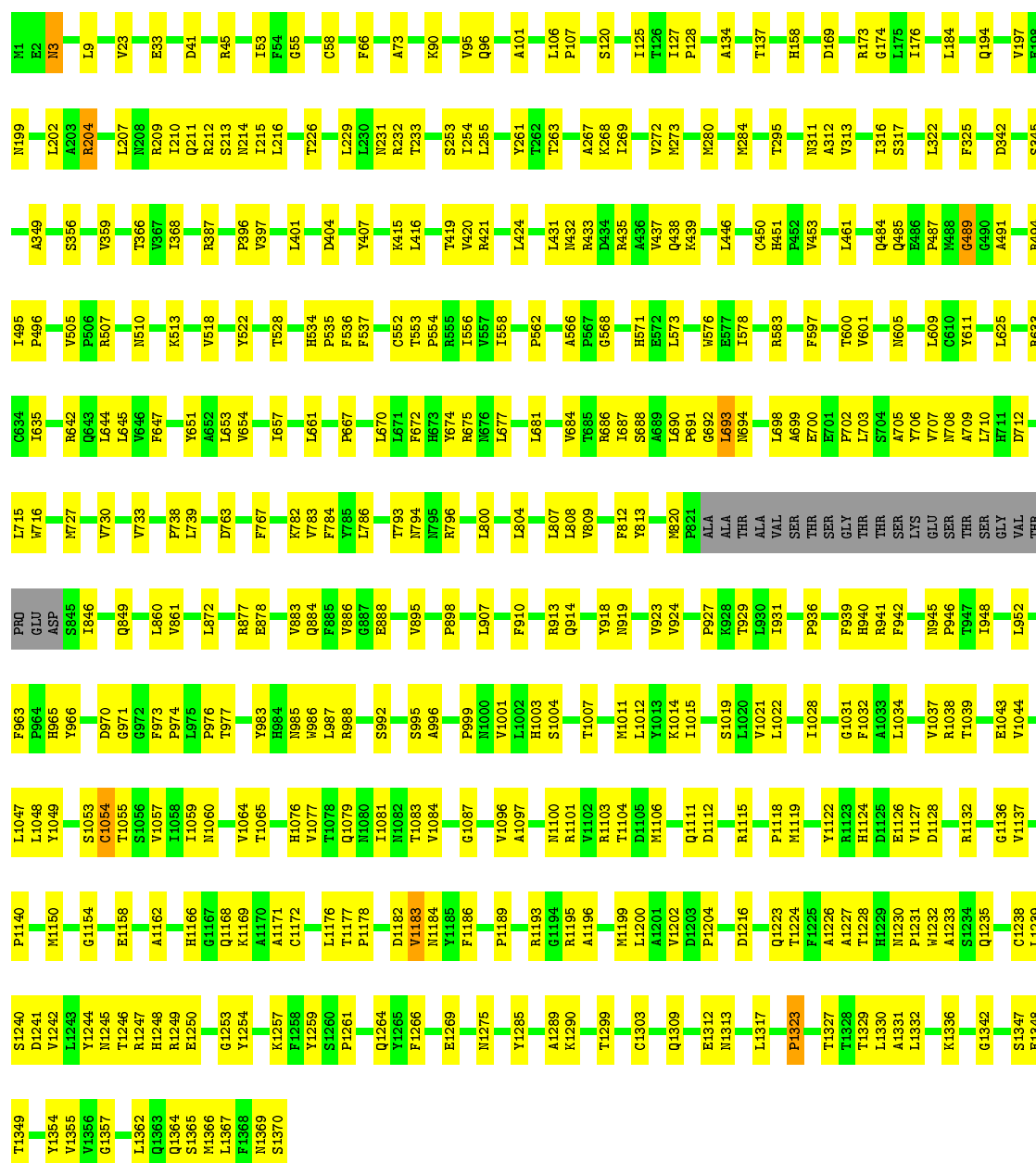






• Molecule 2: Major capsid protein

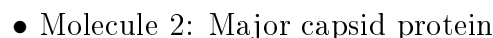
Chain E:



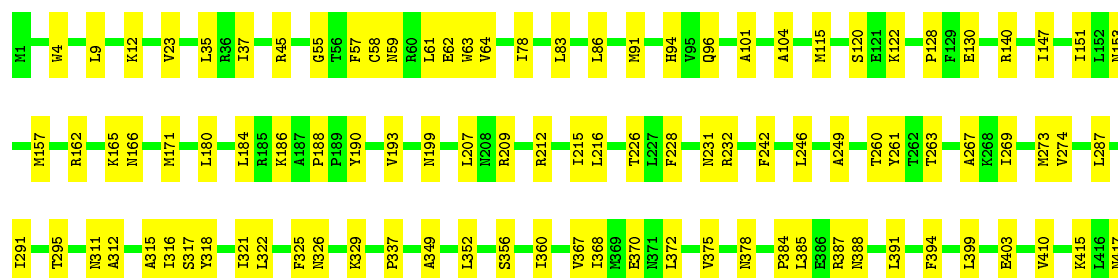
• Molecule 2: Major capsid protein

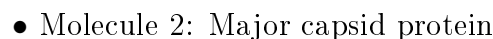
Chain F:





Chain G: 70% 28%





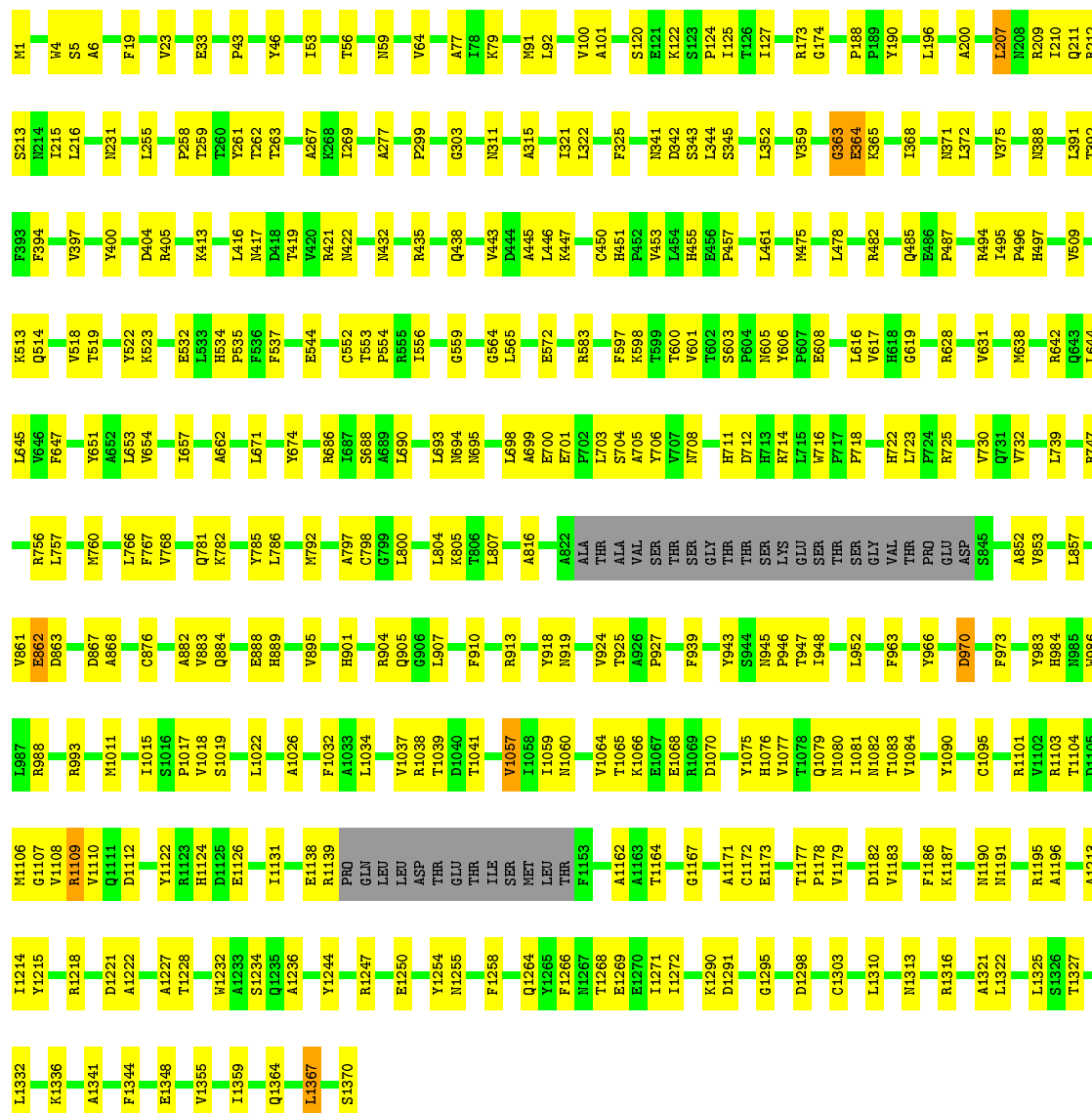
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ET 47	L626	R494	S351	T201	I15
ET 48	L627	I495	L352	A203	P16
	L628	R496		R204	
V751		H497	V359		V23
	V631			L207	
RT 56		R502	I368	R208	I53
	R642			R209	P54
M760	Q643	P506	L372	T210	
	L644			D211	N59
F767	L645	Q514	V375	R212	
	V646			S213	W63
WT 78	F647	V518	D380	N214	V64
			T381	T215	V65
TT 79		V524	K322	L216	F66
	V651				
V783	A652	I527	E386	L224	L71
F784	L653		R387		A72
	V654	H534	N388	N231	A73
RT 96		P535			
ET 97	I657	F536	L391	R234	H76
C798		F537			A77
G799	H680		V397	T254	F78
L800	L661		D404		K79
	A662	C552		Y261	
L804	D663	T553	T408	T263	L83
		R555			
L807	V674	I556	K413	A267	L86
L808		F557		R268	
	S688	I558	D418	T269	N91
F812			T419		
Y813	L693	P562	V420	V279	R99
	N694		R421		V100
L818	N695	A566			A101
		P567		T282	
A823	L698		L424		Q111
THR			P425	P299	
ALA	L703	E572		A300	I125
VAL	S704	L573	R435	T301	T126
SER	A705			Y302	I127
THR	Y706	W576	V443	G303	P128
SER	V707		D444		F129
GLY	W708	R583	A445	N311	E130
THR	A709		L446		
THR	L710	T600		A315	A133
SER	H711				
LYS	D712		C450	T321	K165
GLU	H713	P604	H451	L322	
SER		N605	V453	A323	D169
THR	W716	Y606	L454	D324	
SER		P607		F325	G174
GLY	F719	E608	H455		L175
VAL	L609	L609	P456	N326	
			P457	S327	I176
THR	W727	C510			
P842		V615	L461	N341	P188
		L616		D342	P189
V853		V617	W475	S343	
		H618		L344	L196
L857		C510	P460	S345	





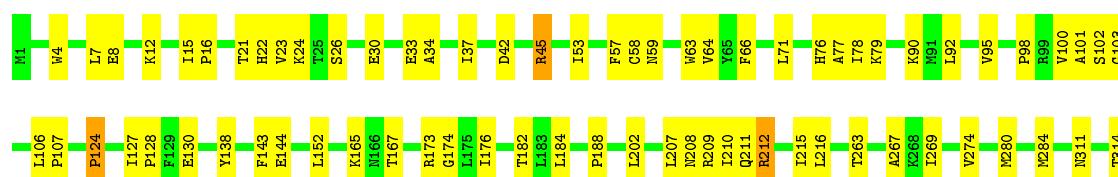
• Molecule 2: Major capsid protein

Chain J: 72% 25%



• Molecule 2: Major capsid protein

Chain K: 72% 26%

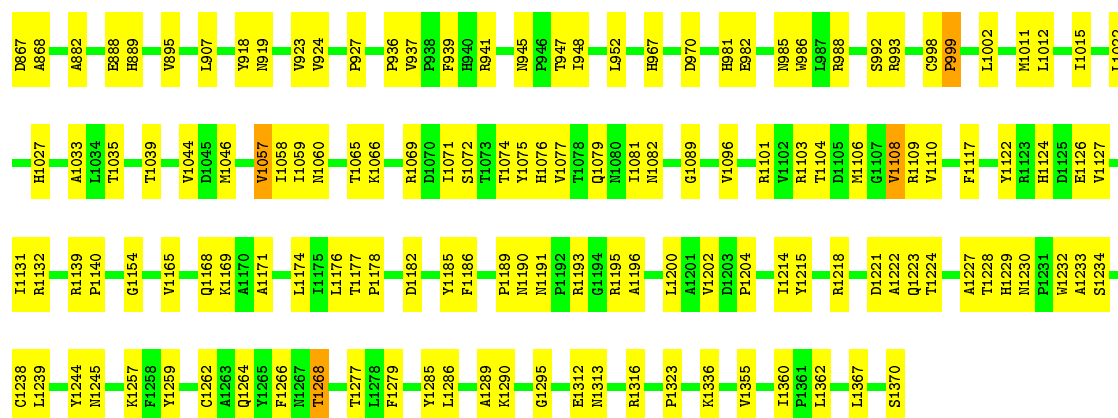


L723	SER	L941	V1057	V1165	E1269	R421	T553	W116
E728	LYS	R941	I1058	H1166	E1270	M115	P554	W133
G729	GLU	N945	I1059	Q1167	I1271	V116	R555	A734
T730	SER	N945	M1060	Q1168	Y1285	P124	I556	D735
Q731	THR	T947	V1064	E1173	A1289	I127	G559	P738
V732	SER	T947	T1065	L1176	R1294	P128	P562	R747
V733	GLY	T948	K1066	L1177	C1303	E130	L565	H748
P738	VAL	L952	R1069	T1177	V1183	A133	A566	V751
P738	PRO	D954	D1070	R1081	K1187	L152	E572	D753
R747	GLU	R958	I1071	T1074	M1313	L169	R583	R756
H748	ASP	R958	T1074	Y1075	L1317	D169	T600	M760
V751	R550	T961	H1075	H1076	L1317	R173	R628	F767
R524	R553	T961	H1077	H1078	L1325	G174	L627	Q781
I527	R553	D970	T1078	Q1079	L1325	L176	V601	M784
R534	R553	D970	T1079	H1080	A1331	H177	Y611	F784
P535	R553	D970	H1081	I1081	K1336	P188	L627	T793
F536	R553	D970	T1082	T1082	L1337	P189	L644	C798
F537	R553	D970	T1083	Y1080	K1338	P189	L645	G799
Q543	R553	D970	Y1080	Y1096	F1344	M199	V631	L800
T548	R553	D970	Y1096	R1218	V1355	A200	R642	T824
P554	R553	D970	R1218	R1218	T201	T201	Q643	W793
R555	R553	D970	R1218	R1218	L202	L202	L644	C798
I556	R553	D970	R1218	R1218	F57	F57	L645	G799
V557	R553	D970	R1218	R1218	R60	R60	L651	L800
I558	R553	D970	R1218	R1218	L61	L61	A652	T824
G559	R553	D970	R1218	R1218	E62	E62	L653	ALA
L681	R553	D970	R1218	R1218	W63	W63	V654	VAL
L687	R553	D970	R1218	R1218	V64	V64	I495	SER
S688	R553	D970	R1218	R1218	V65	V65	P496	THR
G801	R553	D970	R1218	R1218	F66	F66	R507	SER
L804	R553	D970	R1218	R1218	A77	A77	T508	GLY
R805	R553	D970	R1218	R1218	L78	L78	V509	THR
L808	R553	D970	R1218	R1218	R79	R79	N510	THR
R833	R553	D970	R1218	R1218	R90	R90	L512	LYS
F837	R553	D970	R1218	R1218	R91	R91	M512	GLU
A705	R553	D970	R1218	R1218	L92	L92	R514	SER
Y706	R553	D970	R1218	R1218	R93	R93	Q514	THR
T707	R553	D970	R1218	R1218	R94	R94	T519	GLY
N708	R553	D970	R1218	R1218	Y95	Y95	L527	VAL
Y606	R553	D970	R1218	R1218	O96	O96	I527	THR
A409	R553	D970	R1218	R1218	Y97	Y97	L533	THR
L710	R553	D970	R1218	R1218	V100	V100	H534	P842
O610	R553	D970	R1218	R1218	A101	A101	E700	S845
Y611	R553	D970	R1218	R1218	A104	A104	P535	A848
L626	R553	D970	R1218	R1218	T108	T108	F537	Y706
I627	R553	D970	R1218	R1218	I114	I114	D538	V707
R628	R553	D970	R1218	R1218			F539	L710
P628	R553	D970	R1218	R1218			C552	
V631	R553	D970	R1218	R1218				
R632	R553	D970	R1218	R1218				
R633	R553	D970	R1218	R1218				
C634	R553	D970	R1218	R1218				

• Molecule 2: Major capsid protein

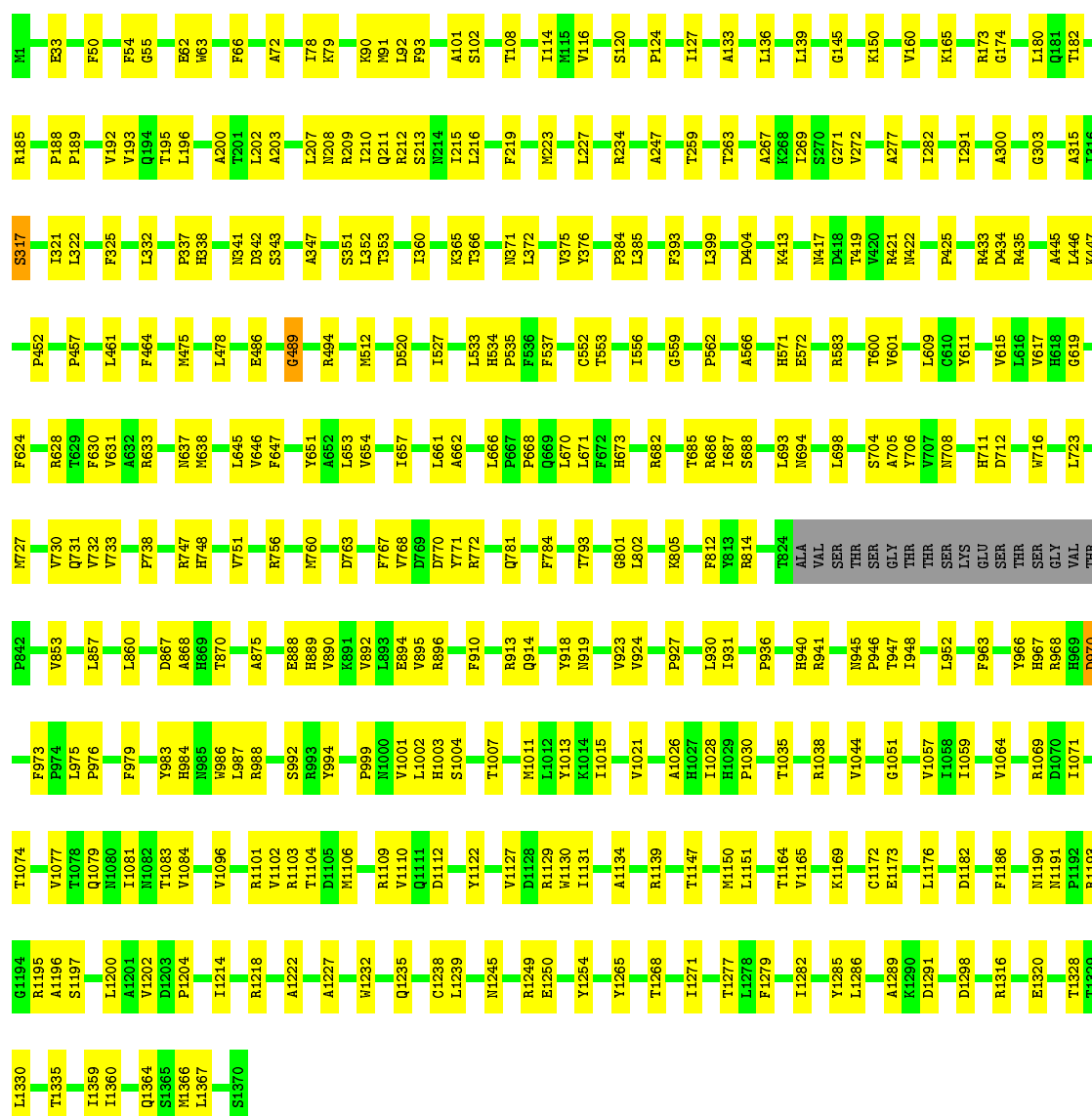
Chain L: 

H1	M115	V272	R421	T553	W116
A6	V116	V273	T427	P554	W133
P11	P124	V274	R432	R555	A734
K12	I127	I282	N433	I556	D735
V13	P128	I291	R433	G559	P738
G14	F129	E294	Q438	P562	R747
F19	E130	T295	K439	L565	H748
L20	A133	L299	D441	A566	V751
T21	L152	P299	A445	E572	D753
R22	D169	G303	C450	R583	R756
V23	R24	R311	H451	T600	M760
R24	R173	A315	P452	V601	F767
R31	G174	A315	V453	V631	V768
F32	L176	R318	P457	L627	Q781
E33	H177	H319	P470	R628	M784
I37	P188	I321	M475	V631	T793
I48	P189	I321	L478	L644	C798
E51	M199	R331	C481	L645	G799
F54	A200	L332	E486	V651	L800
F57	T201	L332	T508	A652	T824
R60	L207	D342	V509	L653	ALA
L61	R209	I352	N510	V654	VAL
E62	Q211	S356	E511	I657	SER
W63	R212	R357	R512	L661	GLY
V64	S213	R357	R512	A662	THR
V65	R214	T360	T508	L666	THR
F66	I215	I368	N510	P667	LYS
A77	L216	E370	E511	L670	GLU
L78	M223	V375	R512	L671	SER
R79	L227	V376	Q514	Y674	THR
R90	L227	P384	T519	L693	GLY
R91	R234	R387	I527	L698	VAL
L92	R234	I391	L533	L698	THR
R93	T251	T392	H534	A699	P842
R94	T251	D404	P535	E700	S845
Y95	L254	P404	F537	A848	A848
O96	L254	Y407	D538	Y706	G854
Y97	T259	T419	F539	V707	T858
V100	T263	V420	C552	L710	
A101	S264				
A104	S265				
T108	G266				
I114	A267				
	K268				
	I269				

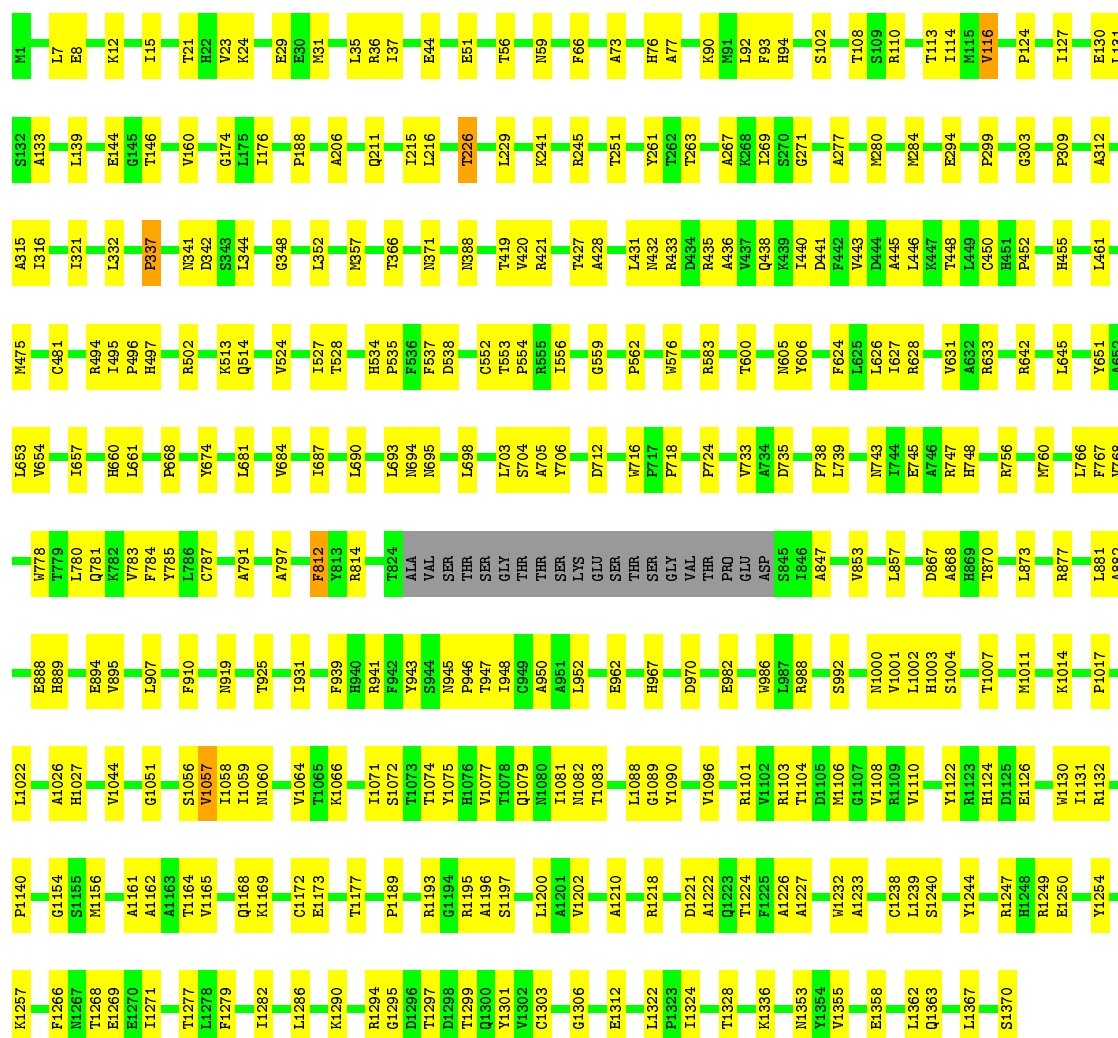


• Molecule 2: Major capsid protein

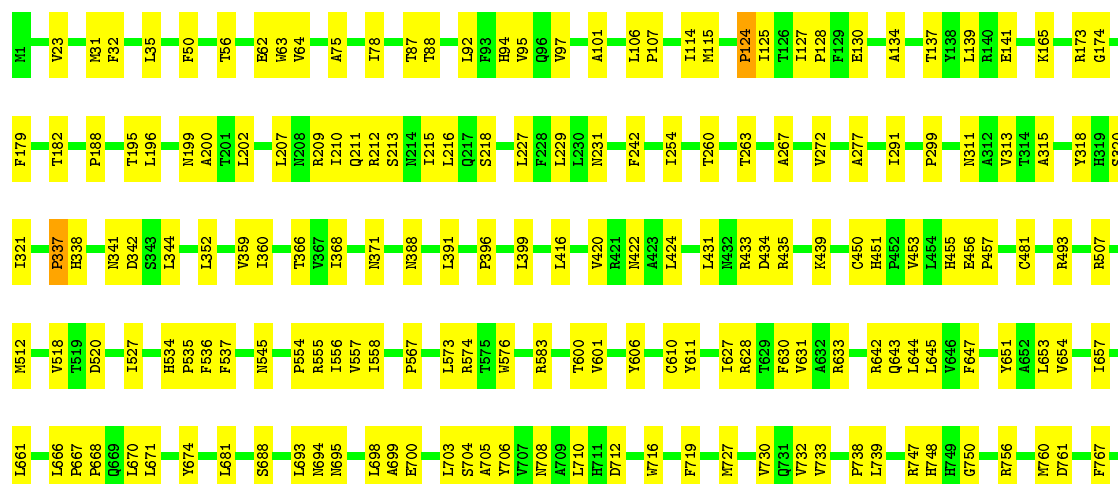
Chain M: 74% 25%

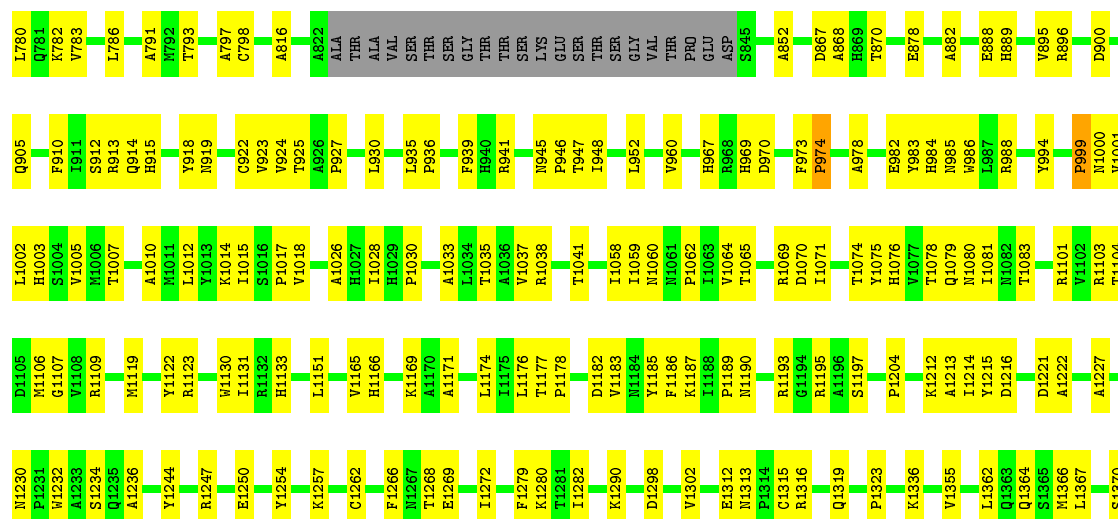


• Molecule 2: Major capsid protein

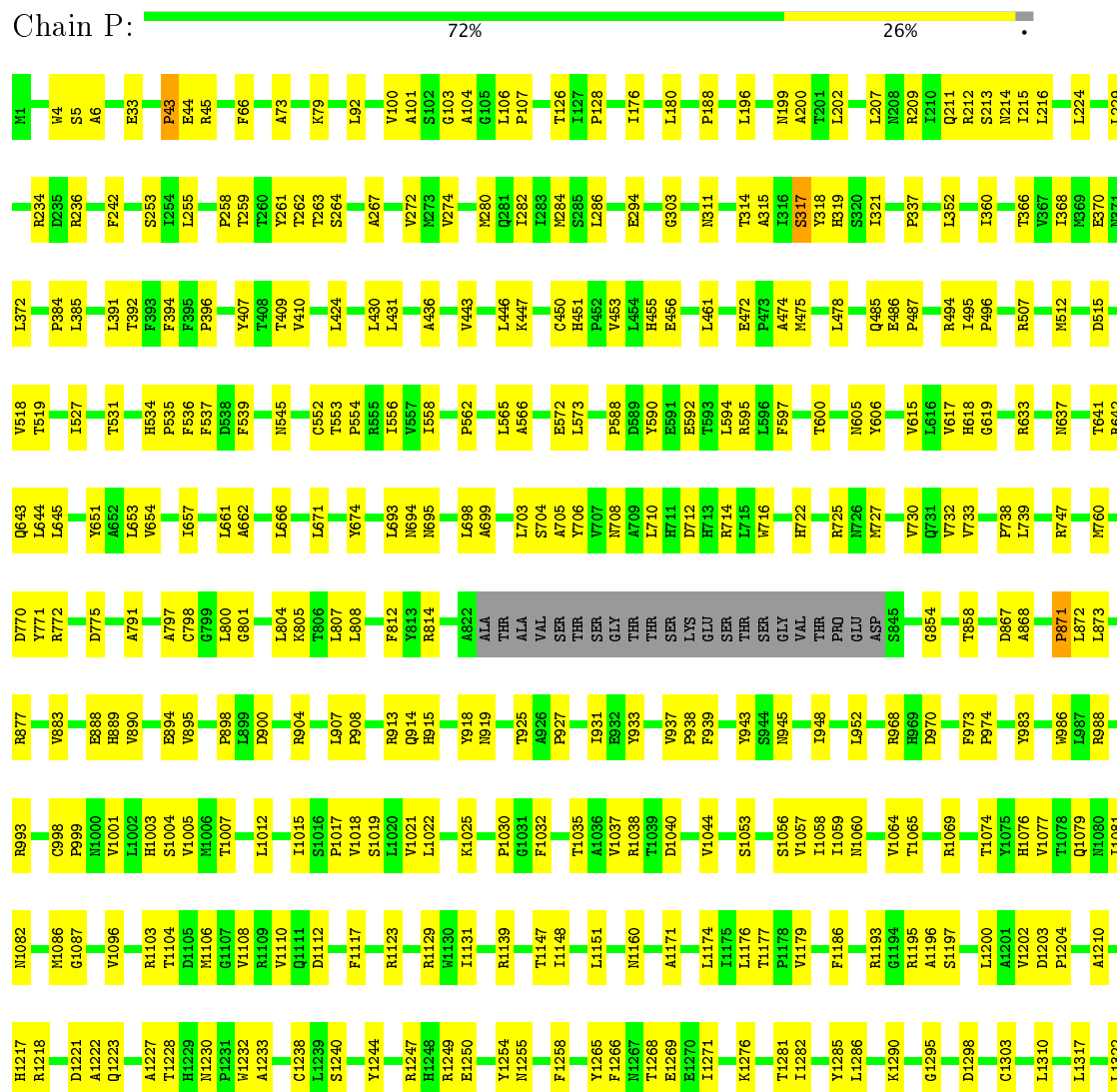
Chain N:  75% 24%

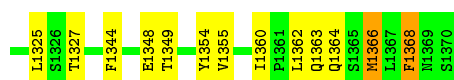
• Molecule 2: Major capsid protein

Chain O:  73% 25%

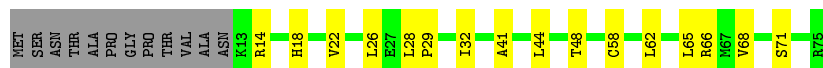


- Molecule 2: Major capsid protein





- Molecule 3: Small capsomere-interacting protein



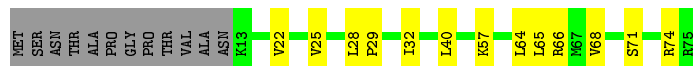
- Molecule 3: Small capsomere-interacting protein



- Molecule 3: Small capsomere-interacting protein



- Molecule 3: Small capsomere-interacting protein



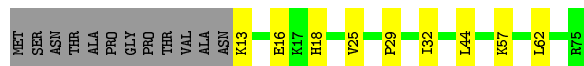
- Molecule 3: Small capsomere-interacting protein



- Molecule 3: Small capsomere-interacting protein

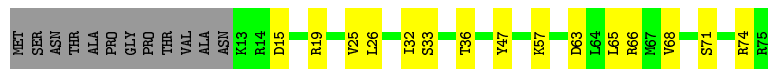


- Molecule 3: Small capsomere-interacting protein



- Molecule 3: Small capsomere-interacting protein

Chain X:  64% 20% 16%



- Molecule 3: Small capsomere-interacting protein

Chain Y:  71% 13% 16%




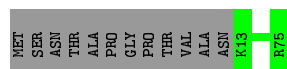
- Molecule 3: Small capsomere-interacting protein

Chain Z:  73% 11% 16%




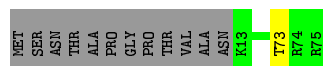
- Molecule 3: Small capsomere-interacting protein

Chain a:  84% 16%




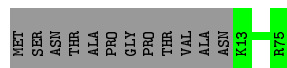
- Molecule 3: Small capsomere-interacting protein

Chain b:  83% 16%




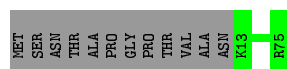
- Molecule 3: Small capsomere-interacting protein

Chain c:  84% 16%




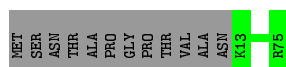
- Molecule 3: Small capsomere-interacting protein

Chain d:  84% 16%



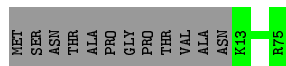
- Molecule 3: Small capsomere-interacting protein

Chain e:  84% 16%



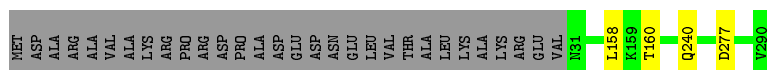
- Molecule 3: Small capsomere-interacting protein

Chain f: 84% 16%



- Molecule 4: Triplex capsid protein 1

Chain g: 88% 10%



- Molecule 4: Triplex capsid protein 1

Chain j: 98%



- Molecule 4: Triplex capsid protein 1

Chain m: 99%



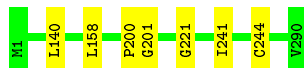
- Molecule 4: Triplex capsid protein 1

Chain p: 98%



- Molecule 4: Triplex capsid protein 1

Chain s: 98%



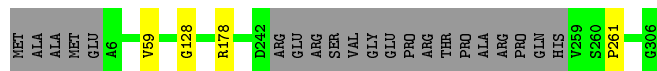
- Molecule 5: Triplex capsid protein 2

Chain h: 92% 5%



- Molecule 5: Triplex capsid protein 2

Chain i:  92% • 7%



- Molecule 5: Triplex capsid protein 2

Chain k:  93% • 5%



- Molecule 5: Triplex capsid protein 2

Chain l:  98% ••



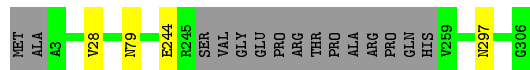
- Molecule 5: Triplex capsid protein 2

Chain n:  94% ••



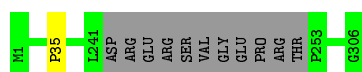
- Molecule 5: Triplex capsid protein 2

Chain o:  94% • 5%



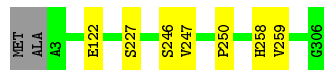
- Molecule 5: Triplex capsid protein 2

Chain q:  96% •



- Molecule 5: Triplex capsid protein 2

Chain r:  97% ••



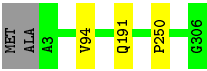
- Molecule 5: Triplex capsid protein 2

Chain t:  95% ..



• Molecule 5: Triplex capsid protein 2

Chain u:  98% ..



4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	39600	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2.7	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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 >2	RMSZ	# Z >2
1	0	0.23	0/2366	0.37	0/3192
1	1	0.23	0/2366	0.38	0/3192
1	2	0.23	0/2366	0.38	0/3192
1	3	0.23	0/2366	0.37	0/3192
1	4	0.23	0/2366	0.38	0/3192
1	5	0.23	0/2366	0.37	0/3192
1	6	0.23	0/2366	0.37	0/3192
1	7	0.23	0/2366	0.38	0/3192
1	8	0.23	0/2366	0.37	0/3192
1	9	0.23	0/2366	0.38	0/3192
1	v	0.23	0/2366	0.38	0/3192
1	w	0.23	0/2366	0.38	0/3192
1	x	0.23	0/2366	0.38	0/3192
1	y	0.23	0/2366	0.37	0/3192
1	z	0.23	0/2366	0.37	0/3192
2	A	0.25	0/10780	0.44	0/14685
2	B	0.25	0/10824	0.44	0/14743
2	C	0.25	0/10942	0.44	1/14906 (0.0%)
2	D	0.25	0/10926	0.44	0/14884
2	E	0.25	0/10932	0.44	0/14892
2	F	0.25	0/10949	0.43	0/14916
2	G	0.25	0/10962	0.43	0/14933
2	H	0.25	0/10967	0.43	0/14940
2	I	0.25	0/10932	0.43	1/14892 (0.0%)
2	J	0.25	0/10835	0.43	1/14757 (0.0%)
2	K	0.25	0/10937	0.44	0/14899
2	L	0.25	0/10974	0.43	0/14950
2	M	0.25	0/10974	0.43	0/14950
2	N	0.25	0/10949	0.43	0/14916
2	O	0.25	0/10937	0.43	0/14899
2	P	0.25	0/10937	0.43	0/14899
3	Q	0.22	0/520	0.38	0/697
3	R	0.23	0/520	0.38	0/697
3	S	0.24	0/520	0.38	0/697

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
3	T	0.24	0/520	0.38	0/697
3	U	0.23	0/520	0.38	0/697
3	V	0.23	0/520	0.37	0/697
3	W	0.23	0/520	0.37	0/697
3	X	0.23	0/520	0.38	0/697
3	Y	0.23	0/520	0.37	0/697
3	Z	0.23	0/520	0.38	0/697
3	a	0.23	0/520	0.37	0/697
3	b	0.23	0/520	0.37	0/697
3	c	0.23	0/520	0.38	0/697
3	d	0.23	0/520	0.37	0/697
3	e	0.23	0/520	0.37	0/697
3	f	0.23	0/520	0.37	0/697
4	g	0.24	0/2138	0.44	0/2903
4	j	0.25	0/2374	0.43	0/3221
4	m	0.24	0/2374	0.43	0/3221
4	p	0.25	0/2374	0.43	0/3221
4	s	0.25	0/2374	0.43	0/3221
5	h	0.25	0/2361	0.44	0/3206
5	i	0.25	0/2300	0.46	0/3124
5	k	0.25	0/2361	0.43	0/3207
5	l	0.24	0/2453	0.43	0/3332
5	n	0.24	0/2379	0.45	1/3230 (0.0%)
5	o	0.24	0/2353	0.42	0/3193
5	q	0.24	0/2379	0.43	0/3230
5	r	0.24	0/2458	0.43	0/3339
5	t	0.25	0/2387	0.45	0/3241
5	u	0.24	0/2458	0.43	0/3339
All	All	0.25	0/254090	0.42	4/345321 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1367	LEU	CB-CG-CD2	-6.90	99.26	111.00
2	J	1367	LEU	CB-CG-CD1	-6.42	100.09	111.00
2	I	1367	LEU	CB-CG-CD2	-5.55	101.56	111.00
5	n	124	LEU	CA-CB-CG	5.21	127.28	115.30

There are no chirality outliers.

There are no planarity outliers.

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	0	2328	0	2363	20	0
1	1	2328	0	2363	19	0
1	2	2328	0	2363	21	0
1	3	2328	0	2363	29	0
1	4	2328	0	2363	25	0
1	5	2328	0	2363	23	0
1	6	2328	0	2363	23	0
1	7	2328	0	2363	24	0
1	8	2328	0	2363	29	0
1	9	2328	0	2363	23	0
1	v	2328	0	2363	0	0
1	w	2328	0	2363	0	0
1	x	2328	0	2363	0	0
1	y	2328	0	2363	0	0
1	z	2328	0	2363	0	0
2	A	10527	0	10474	280	0
2	B	10574	0	10522	296	0
2	C	10686	0	10628	298	0
2	D	10670	0	10613	311	0
2	E	10676	0	10618	281	0
2	F	10693	0	10635	259	0
2	G	10705	0	10641	270	0
2	H	10710	0	10646	258	0
2	I	10676	0	10618	238	0
2	J	10581	0	10518	248	0
2	K	10681	0	10623	267	0
2	L	10717	0	10653	254	0
2	M	10717	0	10653	250	0
2	N	10693	0	10635	225	0
2	O	10681	0	10623	248	0
2	P	10681	0	10623	224	0
3	Q	513	0	539	14	0
3	R	513	0	539	9	0
3	S	513	0	539	7	0
3	T	513	0	539	10	0
3	U	513	0	539	11	0
3	V	513	0	539	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	W	513	0	539	5	0
3	X	513	0	539	11	0
3	Y	513	0	539	7	0
3	Z	513	0	539	7	0
3	a	513	0	539	0	0
3	b	513	0	539	0	0
3	c	513	0	539	0	0
3	d	513	0	539	0	0
3	e	513	0	539	0	0
3	f	513	0	539	0	0
4	g	2091	0	2120	0	0
4	j	2325	0	2363	0	0
4	m	2325	0	2363	0	0
4	p	2325	0	2363	0	0
4	s	2325	0	2363	0	0
5	h	2316	0	2409	0	0
5	i	2258	0	2350	0	0
5	k	2317	0	2415	0	0
5	l	2406	0	2495	0	0
5	n	2334	0	2431	0	0
5	o	2311	0	2402	0	0
5	q	2334	0	2431	0	0
5	r	2411	0	2500	0	0
5	t	2342	0	2435	0	0
5	u	2411	0	2500	0	0
All	All	248627	0	249732	4113	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 10.

All (4113) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:512:MET:CE	2:L:527:ILE:HD11	1.81	1.10
2:L:512:MET:HE2	2:L:527:ILE:HD11	1.33	1.08
2:A:475:MET:O	2:A:478:LEU:HG	1.64	0.95
2:A:1361:PRO:HB2	2:A:1364:GLN:HB3	1.49	0.92
2:D:478:LEU:HD13	2:D:512:MET:SD	2.12	0.90
2:B:1035:THR:HG23	2:B:1176:LEU:HD11	1.55	0.88
2:F:606:TYR:HB3	2:F:925:THR:HG21	1.57	0.85
2:F:435:ARG:HG3	2:F:1367:LEU:HD11	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:702:PRO:HB3	2:C:965:HIS:HB3	1.58	0.85
2:L:174:GLY:HA3	2:M:101:ALA:HB3	1.58	0.84
2:I:174:GLY:HA3	2:J:101:ALA:HB3	1.60	0.84
2:A:234:ARG:HH12	2:A:1369:ASN:HA	1.43	0.84
2:C:174:GLY:HA3	2:D:101:ALA:HB3	1.60	0.84
2:N:941:ARG:HH12	2:N:982:GLU:HG3	1.44	0.83
2:H:627:ILE:HD11	2:H:882:ALA:HB2	1.60	0.82
2:D:174:GLY:HA3	2:E:101:ALA:HB3	1.60	0.82
2:N:888:GLU:O	2:N:919:ASN:ND2	2.14	0.81
2:E:709:ALA:HB2	2:E:1014:LYS:HD3	1.62	0.80
2:F:578:ILE:HG23	2:F:689:ALA:HB2	1.64	0.80
2:K:1101:ARG:HH21	2:L:202:LEU:HD13	1.46	0.80
2:A:478:LEU:HD23	2:A:527:ILE:HD12	1.62	0.80
2:B:127:ILE:HD11	2:C:101:ALA:HA	1.64	0.79
2:F:174:GLY:HA3	2:G:101:ALA:HB3	1.64	0.79
2:F:212:ARG:HH22	2:F:1204:PRO:HD3	1.47	0.79
2:L:941:ARG:HH12	2:L:982:GLU:HG3	1.47	0.79
2:B:269:ILE:HG22	2:B:271:GLY:H	1.46	0.79
2:J:174:GLY:HA3	2:K:101:ALA:HB3	1.65	0.78
2:O:212:ARG:HH22	2:O:1204:PRO:HD3	1.48	0.78
2:B:446:LEU:HD11	2:B:1021:VAL:HG22	1.63	0.78
2:N:693:LEU:HD11	2:N:1026:ALA:HB2	1.65	0.78
2:C:1057:VAL:HG12	2:C:1083:THR:HG22	1.66	0.78
2:J:688:SER:HB3	2:J:708:ASN:HD22	1.49	0.78
2:D:1191:ASN:ND2	2:D:1195:ARG:O	2.16	0.78
2:K:174:GLY:HA3	2:L:101:ALA:HB3	1.65	0.77
2:M:478:LEU:HD13	2:M:512:MET:HE1	1.66	0.77
2:F:812:PHE:HB2	3:V:65:LEU:HD21	1.66	0.77
2:H:101:ALA:HB3	2:M:174:GLY:HA3	1.67	0.77
2:B:533:LEU:HD22	2:B:1235:GLN:HG2	1.66	0.77
2:C:122:LYS:HG2	2:C:124:PRO:HD3	1.65	0.77
2:H:694:ASN:O	2:I:968:ARG:NH2	2.16	0.77
2:G:559:GLY:HA3	2:G:1011:MET:HB3	1.67	0.77
2:D:662:ALA:HB1	2:E:605:ASN:HD22	1.49	0.77
2:D:204:ARG:O	2:L:22:HIS:ND1	2.18	0.77
2:L:212:ARG:HH22	2:L:1204:PRO:HD3	1.50	0.76
2:K:661:LEU:HD23	2:K:666:LEU:HD11	1.67	0.76
2:M:1059:ILE:HG22	2:M:1081:ILE:HG22	1.66	0.76
2:A:756:ARG:HH21	3:Q:66:ARG:HH12	1.34	0.76
2:N:1064:VAL:HG22	2:N:1077:VAL:HG12	1.66	0.76
2:L:748:HIS:HE1	2:L:751:VAL:HB	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:884:GLN:HA	3:V:66:ARG:HB2	1.68	0.76
2:F:698:LEU:HD21	2:F:1127:VAL:HG22	1.68	0.75
2:H:1059:ILE:HG22	2:H:1081:ILE:HG22	1.66	0.75
2:N:1104:THR:HG22	2:N:1106:MET:H	1.51	0.75
2:B:583:ARG:HE	2:C:999:PRO:HD3	1.51	0.75
2:H:888:GLU:O	2:H:919:ASN:ND2	2.19	0.75
2:J:693:LEU:HD11	2:J:1026:ALA:HB2	1.68	0.75
2:C:1048:LEU:HD11	2:C:1092:SER:HB3	1.69	0.75
2:C:749:HIS:HA	2:C:756:ARG:HH12	1.49	0.75
2:F:895:VAL:HB	2:F:914:GLN:HB2	1.68	0.75
2:A:475:MET:HG2	2:A:478:LEU:HD21	1.69	0.74
2:P:694:ASN:HD22	2:P:704:SER:HB3	1.52	0.74
2:M:212:ARG:HH22	2:M:1204:PRO:HD3	1.51	0.74
2:C:702:PRO:HB3	2:D:965:HIS:HB3	1.69	0.74
2:H:174:GLY:HA3	2:I:101:ALA:HB3	1.68	0.74
2:K:927:PRO:HD2	2:K:952:LEU:HD11	1.69	0.74
2:D:437:VAL:O	2:E:1184:ASN:ND2	2.19	0.74
2:F:543:GLN:HG2	2:F:548:THR:HG22	1.69	0.74
2:I:433:ARG:NH1	2:I:1165:VAL:O	2.19	0.74
2:M:927:PRO:HD2	2:M:952:LEU:HD11	1.68	0.74
2:D:702:PRO:HB3	2:E:965:HIS:HB3	1.69	0.74
2:F:1101:ARG:HH12	2:G:199:ASN:HD21	1.33	0.74
2:L:662:ALA:HA	2:L:671:LEU:HD11	1.69	0.74
2:C:1365:SER:O	2:C:1369:ASN:N	2.21	0.74
2:E:657:ILE:HG23	2:E:661:LEU:HD23	1.69	0.74
2:E:707:VAL:HG12	2:E:1019:SER:HA	1.69	0.73
2:F:1057:VAL:HG12	2:F:1083:THR:HG22	1.69	0.73
2:J:1059:ILE:HG22	2:J:1081:ILE:HG22	1.68	0.73
2:L:478:LEU:HD11	2:L:509:VAL:HG22	1.71	0.73
2:D:1057:VAL:HG12	2:D:1083:THR:HG22	1.71	0.73
2:D:1044:VAL:HG13	2:D:1096:VAL:HG13	1.71	0.73
2:F:887:GLY:O	2:F:919:ASN:ND2	2.22	0.73
2:E:261:TYR:HB3	2:E:269:ILE:HD12	1.70	0.73
2:E:716:TRP:HB2	2:E:914:GLN:HE21	1.53	0.73
2:F:527:ILE:HG23	2:F:1218:ARG:HH22	1.53	0.73
2:E:812:PHE:HB2	3:U:65:LEU:HD21	1.71	0.73
2:M:662:ALA:HA	2:M:671:LEU:HD11	1.70	0.73
2:H:1104:THR:HG22	2:H:1106:MET:H	1.54	0.72
2:M:478:LEU:HD13	2:M:512:MET:CE	2.18	0.72
2:C:20:LEU:HD23	2:C:21:THR:HG23	1.70	0.72
1:5:87:VAL:HG21	1:5:203:LEU:HD22	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:512:MET:HE1	2:L:527:ILE:HD11	1.67	0.72
2:M:1001:VAL:O	2:M:1003:HIS:N	2.22	0.72
2:I:495:ILE:HG23	2:I:496:PRO:HD3	1.72	0.72
2:L:263:THR:HG23	2:L:294:GLU:HG2	1.70	0.72
2:O:556:ILE:HG21	2:O:986:TRP:HZ3	1.54	0.72
2:A:748:HIS:O	2:A:756:ARG:NH1	2.22	0.72
2:G:1057:VAL:HG12	2:G:1083:THR:HG22	1.70	0.72
2:M:1021:VAL:HG11	2:M:1134:ALA:HB1	1.72	0.72
1:2:122:ALA:HB2	1:2:214:ARG:HG2	1.71	0.72
2:A:478:LEU:CD2	2:A:527:ILE:HD12	2.19	0.72
2:H:419:THR:HG22	2:H:421:ARG:H	1.54	0.72
2:E:945:ASN:HB3	2:E:948:ILE:HG22	1.70	0.72
2:N:419:THR:HG22	2:N:421:ARG:H	1.53	0.72
2:B:1344:PHE:HD1	2:B:1364:GLN:HE21	1.36	0.72
2:B:725:ARG:HA	2:B:771:TYR:HB3	1.72	0.72
2:G:246:LEU:O	2:G:1093:ASN:ND2	2.23	0.72
2:E:212:ARG:HH22	2:E:1204:PRO:HD3	1.54	0.72
2:O:583:ARG:HH12	2:P:998:CYS:HA	1.54	0.72
2:P:212:ARG:HH22	2:P:1204:PRO:HD3	1.54	0.71
2:A:1185:TYR:OH	2:A:1191:ASN:O	2.08	0.71
2:E:702:PRO:HG3	2:F:964:PRO:HG2	1.72	0.71
2:K:212:ARG:HH22	2:K:1204:PRO:HD3	1.54	0.71
2:P:888:GLU:O	2:P:919:ASN:ND2	2.23	0.71
2:B:712:ASP:O	2:B:782:LYS:NZ	2.23	0.71
2:P:705:ALA:HB1	2:P:712:ASP:HB3	1.72	0.71
2:G:1191:ASN:ND2	2:G:1319:GLN:O	2.24	0.71
2:G:451:HIS:HE1	2:G:1120:ASN:HD22	1.39	0.71
2:O:945:ASN:HB3	2:O:948:ILE:HG22	1.71	0.71
2:O:433:ARG:NH2	2:P:214:ASN:OD1	2.23	0.71
2:I:274:VAL:HG12	2:I:370:GLU:HB3	1.70	0.71
2:O:1104:THR:HG22	2:O:1106:MET:H	1.54	0.71
2:L:478:LEU:CD1	2:L:509:VAL:HG22	2.21	0.71
2:N:263:THR:HB	2:N:267:ALA:HB3	1.73	0.71
2:O:424:LEU:HD11	2:O:573:LEU:HB3	1.71	0.71
2:D:231:ASN:HB3	2:D:1366:MET:SD	2.30	0.71
2:K:1104:THR:HG22	2:K:1106:MET:H	1.56	0.71
2:G:433:ARG:HH11	2:G:1166:HIS:HA	1.56	0.71
2:M:425:PRO:HB3	2:M:1328:THR:HG23	1.73	0.71
2:D:695:ASN:HD21	2:E:507:ARG:HG3	1.53	0.71
2:A:110:ARG:HG3	2:A:112:THR:H	1.53	0.70
2:E:707:VAL:HG11	2:E:1022:LEU:HD23	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:425:PRO:HB3	2:F:1328:THR:HG23	1.73	0.70
2:K:733:VAL:HG12	2:K:738:PRO:HA	1.72	0.70
2:O:1193:ARG:HH21	2:O:1197:SER:HB3	1.56	0.70
2:E:796:ARG:HA	2:E:945:ASN:HD22	1.56	0.70
2:B:519:THR:OG1	2:G:439:LYS:NZ	2.24	0.70
2:B:1064:VAL:HG22	2:B:1077:VAL:HG12	1.73	0.70
2:C:430:LEU:HD12	2:C:1108:VAL:HG13	1.73	0.70
2:D:1115:ARG:HG3	2:D:1158:GLU:HG2	1.74	0.70
2:J:888:GLU:O	2:J:919:ASN:ND2	2.24	0.70
2:B:174:GLY:HA3	2:C:101:ALA:HB3	1.74	0.70
2:G:808:LEU:HD23	2:G:883:VAL:HG13	1.73	0.70
2:K:182:THR:HG21	2:K:1083:THR:HG21	1.73	0.70
2:D:1104:THR:HG22	2:D:1106:MET:H	1.56	0.70
2:E:1064:VAL:HG22	2:E:1077:VAL:HG12	1.73	0.70
2:A:1312:GLU:HG2	2:A:1315:CYS:HB2	1.74	0.70
2:B:583:ARG:NH2	2:C:572:GLU:OE2	2.24	0.70
2:I:927:PRO:HD2	2:I:952:LEU:HD11	1.74	0.70
2:M:63:TRP:HH2	2:M:165:LYS:HB3	1.57	0.70
2:O:888:GLU:O	2:O:919:ASN:ND2	2.24	0.70
2:D:1059:ILE:HG22	2:D:1081:ILE:HG22	1.72	0.70
2:H:1001:VAL:O	2:H:1003:HIS:N	2.24	0.70
2:P:274:VAL:HG12	2:P:370:GLU:HB3	1.74	0.70
2:J:1101:ARG:HH21	2:K:202:LEU:HD13	1.56	0.69
2:P:760:MET:HB3	2:P:889:HIS:HD2	1.55	0.69
2:B:457:PRO:HG3	2:B:907:LEU:HD12	1.73	0.69
2:L:1059:ILE:HG22	2:L:1081:ILE:HG22	1.74	0.69
2:H:694:ASN:HD22	2:H:704:SER:HB3	1.57	0.69
2:M:93:PHE:HB2	2:M:116:VAL:HG23	1.72	0.69
2:O:263:THR:HB	2:O:267:ALA:HB3	1.75	0.69
2:A:657:ILE:HG23	2:A:661:LEU:HD23	1.73	0.69
2:D:263:THR:HB	2:D:267:ALA:HB3	1.73	0.69
2:O:1060:ASN:O	2:O:1079:GLN:NE2	2.22	0.69
2:D:36:ARG:HD3	2:N:116:VAL:HG13	1.74	0.69
2:L:945:ASN:HB3	2:L:948:ILE:HG22	1.75	0.69
2:P:1104:THR:HG22	2:P:1106:MET:H	1.56	0.69
2:C:945:ASN:HB3	2:C:948:ILE:HG22	1.75	0.69
2:D:888:GLU:O	2:D:919:ASN:ND2	2.26	0.69
2:C:78:ILE:HB	2:C:1058:ILE:HG22	1.73	0.69
2:I:600:THR:OG1	2:I:645:LEU:O	2.11	0.69
2:H:999:PRO:HD3	2:M:583:ARG:HH12	1.58	0.69
2:G:717:PRO:HG3	2:G:781:GLN:HG3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:981:HIS:O	2:H:985:ASN:ND2	2.26	0.69
2:O:694:ASN:HD22	2:O:704:SER:HB3	1.58	0.69
2:D:457:PRO:HG3	2:D:907:LEU:HG	1.74	0.68
2:A:1104:THR:HG22	2:A:1106:MET:H	1.57	0.68
2:D:192:VAL:HG11	2:D:1282:ILE:HD12	1.73	0.68
2:D:705:ALA:HB1	2:D:712:ASP:HB3	1.74	0.68
2:D:433:ARG:NH2	2:E:214:ASN:OD1	2.20	0.68
2:K:657:ILE:HG23	2:K:661:LEU:HD22	1.74	0.68
1:7:55:GLU:OE1	1:7:231:ARG:NH1	2.27	0.68
2:A:901:HIS:HA	2:A:904:ARG:HG2	1.76	0.68
2:B:98:PRO:HG3	2:G:61:LEU:HD22	1.74	0.68
2:L:445:ALA:HA	2:L:1110:VAL:HG21	1.74	0.68
2:A:1191:ASN:HD21	2:A:1193:ARG:HE	1.41	0.68
2:L:748:HIS:CE1	2:L:751:VAL:HB	2.29	0.68
2:N:241:LYS:HE3	2:N:245:ARG:HH21	1.58	0.68
2:B:895:VAL:HB	2:B:914:GLN:HB2	1.75	0.68
2:I:127:ILE:HD11	2:J:101:ALA:HA	1.74	0.68
2:A:1182:ASP:HA	2:A:1185:TYR:HB3	1.74	0.68
2:B:605:ASN:O	2:B:642:ARG:NH2	2.26	0.68
2:C:1191:ASN:ND2	2:C:1319:GLN:O	2.27	0.68
2:G:985:ASN:O	2:G:988:ARG:NH1	2.27	0.68
1:0:190:ARG:NH2	2:N:743:ASN:OD1	2.27	0.68
2:F:486:GLU:HB3	2:F:978:ALA:HB2	1.73	0.68
2:I:439:LYS:NZ	2:J:519:THR:OG1	2.27	0.68
2:K:1059:ILE:HG22	2:K:1081:ILE:HG22	1.76	0.68
2:K:888:GLU:O	2:K:919:ASN:ND2	2.27	0.68
1:2:136:ALA:HB2	1:2:200:VAL:HG11	1.76	0.67
2:B:562:PRO:HD2	2:B:565:LEU:HD12	1.75	0.67
2:B:795:ASN:ND2	2:B:992:SER:OG	2.27	0.67
2:E:727:MET:HG3	2:E:730:VAL:HB	1.76	0.67
2:F:71:LEU:HD13	2:F:274:VAL:HG11	1.76	0.67
2:K:66:PHE:HA	2:K:176:ILE:HD11	1.76	0.67
2:O:1109:ARG:HH21	2:O:1169:LYS:HD3	1.59	0.67
2:K:760:MET:HB3	2:K:889:HIS:HD2	1.58	0.67
2:N:1154:GLY:HA3	2:N:1257:LYS:HG3	1.75	0.67
1:4:122:ALA:HB2	1:4:214:ARG:HG2	1.76	0.67
2:E:1057:VAL:HG12	2:E:1083:THR:HG22	1.76	0.67
3:Z:25:VAL:HA	3:Z:57:LYS:HD2	1.77	0.67
2:C:61:LEU:HG	2:D:98:PRO:HG3	1.75	0.67
2:M:760:MET:HB3	2:M:889:HIS:HD2	1.60	0.67
2:O:941:ARG:HH12	2:O:982:GLU:HG3	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:424:LEU:HD11	2:P:573:LEU:HB3	1.75	0.67
2:B:164:LEU:HD22	2:B:317:SER:HB2	1.76	0.67
2:F:494:ARG:HA	2:F:497:HIS:HD2	1.58	0.67
2:B:408:THR:HB	2:G:415:LYS:HB3	1.76	0.67
2:H:583:ARG:HH12	2:I:998:CYS:HA	1.59	0.67
2:D:28:GLY:HA3	2:N:206:ALA:HB2	1.77	0.67
2:O:945:ASN:ND2	2:O:947:THR:OG1	2.27	0.67
2:D:124:PRO:HB3	2:D:1080:ASN:HD22	1.59	0.67
2:E:120:SER:HB3	2:E:1084:VAL:HG12	1.77	0.67
2:G:186:LYS:NZ	2:G:1091:THR:OG1	2.28	0.67
2:I:234:ARG:HH22	2:I:282:ILE:HD13	1.58	0.67
2:C:419:THR:HG22	2:C:421:ARG:H	1.60	0.67
2:H:269:ILE:HD13	2:H:368:ILE:HD11	1.77	0.67
2:H:494:ARG:HA	2:H:497:HIS:HD2	1.60	0.67
2:A:890:VAL:HA	2:A:919:ASN:HB3	1.77	0.67
2:D:1185:TYR:OH	2:D:1191:ASN:O	2.10	0.67
2:F:446:LEU:HD21	2:F:1021:VAL:HG13	1.76	0.67
2:F:487:PRO:HG2	2:F:494:ARG:HH12	1.60	0.67
2:I:78:ILE:HB	2:I:1058:ILE:HG22	1.77	0.67
2:C:30:GLU:HB3	2:M:1277:THR:OG1	1.95	0.67
2:M:1044:VAL:HG11	2:M:1096:VAL:HG13	1.77	0.67
2:M:133:ALA:N	2:M:1071:ILE:O	2.20	0.67
2:D:689:ALA:O	2:D:694:ASN:ND2	2.28	0.66
2:F:931:ILE:HD11	2:F:952:LEU:HA	1.76	0.66
2:H:748:HIS:O	2:H:756:ARG:NH1	2.25	0.66
2:I:207:LEU:HD13	2:I:212:ARG:HB3	1.77	0.66
2:L:1336:LYS:HE3	2:L:1355:VAL:HG11	1.77	0.66
2:N:654:VAL:HG23	2:N:674:TYR:HD2	1.60	0.66
2:J:600:THR:OG1	2:J:645:LEU:O	2.13	0.66
2:B:1365:SER:O	2:B:1369:ASN:N	2.24	0.66
2:B:537:PHE:HA	2:B:554:PRO:HA	1.76	0.66
2:B:993:ARG:NH2	2:G:692:GLY:O	2.27	0.66
2:B:635:ILE:HG12	2:B:646:VAL:HB	1.77	0.66
2:E:733:VAL:HG12	2:E:738:PRO:HA	1.78	0.66
3:V:37:HIS:HD2	3:V:38:PRO:HD2	1.60	0.66
2:D:1115:ARG:HD2	2:D:1157:SER:HB2	1.77	0.66
2:E:1044:VAL:HG13	2:E:1096:VAL:HG13	1.78	0.66
2:F:1292:CYS:HB2	2:F:1310:LEU:HD23	1.78	0.66
2:G:488:MET:HG3	2:G:894:GLU:HB2	1.76	0.66
2:D:212:ARG:HH22	2:D:1204:PRO:HD3	1.61	0.66
1:O:88:ALA:HB2	1:O:109:LEU:HD22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:502:ARG:HH12	2:B:958:ARG:HB3	1.60	0.66
2:F:633:ARG:HD2	2:F:867:ASP:HB2	1.77	0.66
2:E:625:LEU:HD23	3:U:75:ARG:HH12	1.61	0.66
2:D:681:LEU:HB3	2:D:780:LEU:HD22	1.78	0.66
2:E:433:ARG:HH11	2:E:1166:HIS:HA	1.61	0.66
2:I:199:ASN:HD22	2:I:215:ILE:HD13	1.61	0.66
2:J:495:ILE:HG23	2:J:496:PRO:HD3	1.78	0.66
2:B:79:LYS:HE3	2:B:306:VAL:HG21	1.78	0.66
2:C:1035:THR:HG23	2:C:1176:LEU:HD22	1.78	0.66
2:C:1244:TYR:HB2	2:C:1266:PHE:HD2	1.59	0.66
2:C:66:PHE:HD1	2:C:176:ILE:HG12	1.60	0.66
2:D:216:LEU:HD13	2:D:1200:LEU:HD12	1.77	0.66
2:E:690:LEU:O	2:E:692:GLY:N	2.28	0.66
2:J:1327:THR:HG22	2:J:1355:VAL:HG22	1.76	0.66
2:A:1359:ILE:HG13	2:A:1360:ILE:HG12	1.78	0.66
2:B:380:ASP:HA	2:C:204:ARG:HG3	1.78	0.66
2:D:945:ASN:HB3	2:D:948:ILE:HG22	1.78	0.66
2:G:888:GLU:O	2:G:919:ASN:ND2	2.28	0.66
2:J:583:ARG:HH12	2:K:999:PRO:HD3	1.60	0.66
2:M:748:HIS:O	2:M:756:ARG:NH1	2.27	0.66
2:O:688:SER:HB3	2:O:708:ASN:HD22	1.60	0.66
2:I:888:GLU:O	2:I:919:ASN:ND2	2.30	0.65
2:L:733:VAL:HG12	2:L:738:PRO:HA	1.78	0.65
2:B:1327:THR:HG22	2:B:1355:VAL:HG22	1.77	0.65
2:D:553:THR:HG21	2:D:983:TYR:HB3	1.79	0.65
2:M:694:ASN:HD22	2:M:704:SER:HB3	1.61	0.65
2:B:419:THR:HG22	2:B:421:ARG:H	1.61	0.65
2:C:53:ILE:HG12	2:D:90:LYS:HD3	1.79	0.65
2:H:424:LEU:HD11	2:H:573:LEU:HB3	1.77	0.65
2:L:1154:GLY:HA3	2:L:1257:LYS:HG3	1.79	0.65
2:P:805:LYS:H	2:P:889:HIS:HE1	1.43	0.65
2:A:227:LEU:HD23	2:A:1360:ILE:HG21	1.76	0.65
2:F:798:CYS:SG	2:F:799:GLY:N	2.69	0.65
2:M:419:THR:HG22	2:M:421:ARG:H	1.61	0.65
2:N:315:ALA:HB2	2:N:321:ILE:HD11	1.78	0.65
2:O:435:ARG:HH21	2:O:1364:GLN:HA	1.61	0.65
2:E:66:PHE:HA	2:E:176:ILE:HD11	1.78	0.65
2:H:1341:ALA:HA	2:H:1364:GLN:HE22	1.62	0.65
2:L:127:ILE:HD11	2:M:101:ALA:HA	1.79	0.65
2:M:1104:THR:HG22	2:M:1106:MET:H	1.60	0.65
2:N:1336:LYS:HE3	2:N:1355:VAL:HG11	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:200:ALA:HB1	2:N:21:THR:H	1.60	0.65
2:O:694:ASN:O	2:P:968:ARG:NH1	2.30	0.65
2:C:538:ASP:OD1	2:C:555:ARG:NH2	2.30	0.65
2:I:534:HIS:HD2	2:I:537:PHE:HD1	1.44	0.65
2:M:888:GLU:O	2:M:919:ASN:ND2	2.30	0.65
2:E:272:VAL:HA	2:E:368:ILE:HB	1.78	0.65
2:J:124:PRO:HB3	2:J:1080:ASN:HD22	1.62	0.65
2:O:106:LEU:HD12	2:O:107:PRO:HD2	1.78	0.65
2:P:662:ALA:HA	2:P:671:LEU:HD11	1.78	0.65
3:U:22:VAL:HG13	3:U:28:LEU:HD12	1.78	0.65
2:B:1054:CYS:SG	2:B:1055:THR:N	2.69	0.65
2:B:1263:ALA:O	2:B:1267:ASN:ND2	2.30	0.65
2:G:190:TYR:N	2:G:1094:THR:O	2.29	0.65
2:A:4:TRP:HE1	2:G:171:MET:HG2	1.62	0.65
2:I:216:LEU:HD13	2:I:1200:LEU:HD12	1.79	0.65
2:J:705:ALA:HB1	2:J:712:ASP:HB3	1.78	0.65
2:L:654:VAL:HG23	2:L:674:TYR:HD1	1.62	0.65
2:P:945:ASN:HB3	2:P:948:ILE:HG22	1.79	0.65
1:3:178:MET:HB2	1:3:213:VAL:HG13	1.77	0.65
1:9:129:LEU:HD11	1:9:207:GLY:HA3	1.77	0.65
2:I:269:ILE:HD13	2:I:368:ILE:HD11	1.78	0.65
2:B:151:ILE:HD12	2:C:332:LEU:HG	1.78	0.65
2:D:127:ILE:HD11	2:E:101:ALA:HA	1.78	0.65
2:E:927:PRO:HD2	2:E:952:LEU:HD11	1.79	0.65
2:J:798:CYS:HB3	2:J:948:ILE:HG21	1.78	0.65
2:B:374:ARG:HG3	2:B:375:VAL:HG13	1.78	0.64
2:E:1193:ARG:NH1	2:E:1195:ARG:O	2.26	0.64
2:G:94:HIS:HA	2:G:115:MET:HG2	1.79	0.64
2:K:1264:GLN:OE1	2:K:1313:ASN:ND2	2.29	0.64
2:K:269:ILE:HD13	2:K:368:ILE:HD11	1.78	0.64
2:L:251:THR:HG21	2:L:1089:GLY:HA3	1.79	0.64
2:L:981:HIS:O	2:L:985:ASN:ND2	2.30	0.64
2:O:654:VAL:HG23	2:O:674:TYR:HD2	1.62	0.64
2:B:1125:ASP:O	2:B:1127:VAL:N	2.30	0.64
2:B:928:LYS:NZ	2:G:659:GLU:OE2	2.30	0.64
2:D:1244:TYR:HB2	2:D:1266:PHE:HD2	1.63	0.64
2:D:200:ALA:HB1	2:L:21:THR:H	1.62	0.64
2:H:461:LEU:HD13	2:H:552:CYS:HB2	1.77	0.64
2:O:710:LEU:HD11	2:O:783:VAL:HG22	1.79	0.64
1:4:41:CYS:O	1:4:54:ASN:ND2	2.30	0.64
2:A:562:PRO:HD2	2:A:565:LEU:HD12	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:748:HIS:O	2:D:756:ARG:NH1	2.30	0.64
2:G:216:LEU:HD13	2:G:1200:LEU:HD12	1.79	0.64
2:C:968:ARG:HG2	2:C:970:ASP:H	1.63	0.64
2:E:495:ILE:HD12	2:E:976:PRO:HG2	1.80	0.64
2:A:157:MET:HG3	2:G:23:VAL:HG11	1.77	0.64
1:9:88:ALA:HB2	1:9:109:LEU:HD22	1.78	0.64
2:D:895:VAL:HB	2:D:914:GLN:HB2	1.80	0.64
2:F:491:ALA:HA	2:F:494:ARG:HB2	1.79	0.64
2:J:125:ILE:HG22	2:K:103:GLY:HA2	1.80	0.64
2:K:698:LEU:HB2	2:K:706:TYR:HE2	1.61	0.64
2:M:945:ASN:HD22	2:M:948:ILE:HG12	1.62	0.64
2:N:1169:LYS:HE3	2:N:1299:THR:HG22	1.78	0.64
2:H:211:GLN:O	2:H:215:ILE:HG12	1.98	0.64
2:D:7:LEU:HD21	2:N:94:HIS:HB2	1.80	0.64
2:N:941:ARG:HG3	2:N:992:SER:HB3	1.80	0.64
2:P:600:THR:OG1	2:P:645:LEU:O	2.14	0.64
2:A:796:ARG:HA	2:A:945:ASN:HD22	1.63	0.64
2:C:1181:MET:HE3	2:C:1184:ASN:HB2	1.79	0.64
2:C:1336:LYS:HE3	2:C:1355:VAL:HG11	1.80	0.64
2:E:439:LYS:NZ	2:F:519:THR:OG1	2.31	0.64
2:K:1215:TYR:OH	2:K:1268:THR:OG1	2.13	0.64
2:K:315:ALA:HB2	2:K:321:ILE:HD11	1.79	0.64
2:B:515:ASP:OD1	2:B:993:ARG:NH1	2.30	0.64
2:D:617:VAL:HG12	2:D:619:GLY:H	1.62	0.64
2:E:1054:CYS:SG	2:E:1055:THR:N	2.71	0.64
2:E:554:PRO:O	2:E:988:ARG:NH2	2.31	0.64
2:I:601:VAL:HG21	2:I:793:THR:HG22	1.79	0.64
2:L:78:ILE:HB	2:L:1058:ILE:HG22	1.79	0.64
2:P:1364:GLN:O	2:P:1368:PHE:HB2	1.98	0.64
2:C:1331:ALA:HB2	2:D:407:TYR:HB2	1.78	0.64
2:F:1212:LYS:O	2:F:1216:ASP:N	2.23	0.64
2:H:800:LEU:HA	2:H:937:VAL:HG12	1.80	0.64
2:D:860:LEU:HD12	2:D:861:VAL:HG23	1.80	0.63
2:G:231:ASN:HD21	2:G:1366:MET:HB2	1.64	0.63
2:I:1164:THR:HB	2:J:209:ARG:CZ	2.28	0.63
2:A:1122:TYR:HB2	2:A:1128:ASP:HB2	1.78	0.63
2:A:226:THR:HG23	2:A:229:LEU:HB2	1.79	0.63
2:A:478:LEU:HD23	2:A:527:ILE:CD1	2.28	0.63
2:C:1039:THR:HB	2:C:1261:PRO:HB3	1.79	0.63
2:I:1247:ARG:HG3	2:I:1269:GLU:HG3	1.79	0.63
2:M:688:SER:HB3	2:M:708:ASN:HD22	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:127:ILE:HD11	2:P:101:ALA:HA	1.80	0.63
2:O:174:GLY:HA3	2:P:101:ALA:HB3	1.79	0.63
2:B:63:TRP:HH2	2:B:165:LYS:HB3	1.63	0.63
2:I:981:HIS:O	2:I:985:ASN:ND2	2.31	0.63
2:K:263:THR:HB	2:K:267:ALA:HB3	1.80	0.63
2:N:853:VAL:HB	2:N:857:LEU:HD23	1.79	0.63
2:N:51:GLU:H	2:O:320:SER:HA	1.63	0.63
2:C:2:GLU:OE2	2:M:90:LYS:NZ	2.31	0.63
2:D:574:ARG:NH2	2:D:1010:ALA:O	2.31	0.63
2:F:707:VAL:HG21	2:F:1022:LEU:HD23	1.81	0.63
2:H:534:HIS:HD2	2:H:537:PHE:HD2	1.46	0.63
2:K:805:LYS:H	2:K:889:HIS:HE1	1.46	0.63
2:L:269:ILE:HD13	2:L:368:ILE:HD11	1.79	0.63
2:M:486:GLU:OE2	2:M:494:ARG:NH2	2.30	0.63
2:P:4:TRP:O	2:P:6:ALA:N	2.32	0.63
2:G:424:LEU:HD12	2:G:425:PRO:HD2	1.80	0.63
2:G:632:ALA:HB2	2:G:661:LEU:HD11	1.81	0.63
2:H:1060:ASN:O	2:H:1079:GLN:NE2	2.24	0.63
2:H:605:ASN:HB3	2:M:662:ALA:HB1	1.80	0.63
2:O:601:VAL:HG21	2:O:793:THR:HG22	1.79	0.63
2:D:272:VAL:HA	2:D:368:ILE:HB	1.79	0.63
2:E:507:ARG:HH22	2:E:971:GLY:HA3	1.63	0.63
2:G:260:THR:HA	2:G:352:LEU:HD21	1.79	0.63
2:H:1103:ARG:HH22	2:H:1295:GLY:HA2	1.64	0.63
2:J:261:TYR:HB3	2:J:269:ILE:HD12	1.80	0.63
2:K:716:TRP:HZ2	2:K:730:VAL:HG11	1.62	0.63
2:M:733:VAL:HG12	2:M:738:PRO:HA	1.80	0.63
2:N:1001:VAL:O	2:N:1003:HIS:N	2.30	0.63
2:A:470:PRO:O	2:A:476:GLN:NE2	2.32	0.63
2:N:461:LEU:HD13	2:N:552:CYS:HB2	1.79	0.63
1:8:122:ALA:HB1	1:8:215:ARG:HE	1.63	0.63
2:J:553:THR:HG21	2:J:983:TYR:HB3	1.80	0.63
2:A:424:LEU:HD23	2:A:573:LEU:HG	1.81	0.63
2:B:71:LEU:HD12	2:B:274:VAL:HG11	1.78	0.63
2:E:420:VAL:HG21	2:E:576:TRP:HB3	1.80	0.63
2:E:3:ASN:ND2	2:F:316:ILE:O	2.32	0.63
2:H:1071:ILE:HG23	2:H:1072:SER:H	1.64	0.63
2:J:1103:ARG:HG3	2:K:210:ILE:HG21	1.80	0.63
2:L:1289:ALA:O	2:L:1316:ARG:NH1	2.32	0.63
2:A:445:ALA:HA	2:A:1110:VAL:HG11	1.81	0.62
2:D:1206:ASP:O	2:D:1275:ASN:ND2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:255:LEU:HD22	2:J:345:SER:HB2	1.81	0.62
2:L:667:PRO:HG2	2:L:670:LEU:HD12	1.81	0.62
2:O:1101:ARG:HD3	2:P:199:ASN:HD21	1.64	0.62
2:A:1244:TYR:HB2	2:A:1266:PHE:HD2	1.64	0.62
2:B:441:ASP:OD2	2:B:1027:HIS:ND1	2.31	0.62
2:B:538:ASP:O	2:B:983:TYR:OH	2.14	0.62
2:C:556:ILE:HG21	2:C:986:TRP:HZ3	1.63	0.62
2:D:798:CYS:SG	2:D:799:GLY:N	2.72	0.62
2:E:435:ARG:HG3	2:E:1367:LEU:HD11	1.82	0.62
2:E:715:LEU:HD23	2:E:782:LYS:HD3	1.80	0.62
2:G:717:PRO:HG2	2:G:720:VAL:HG22	1.79	0.62
2:L:440:ILE:HB	2:L:1108:VAL:HG21	1.82	0.62
2:P:556:ILE:HG21	2:P:986:TRP:HZ3	1.64	0.62
2:C:895:VAL:HB	2:C:914:GLN:HB2	1.80	0.62
2:F:793:THR:HG21	2:F:797:ALA:HB2	1.81	0.62
2:G:450:CYS:O	2:G:1122:TYR:OH	2.15	0.62
2:H:654:VAL:HG23	2:H:674:TYR:HD1	1.64	0.62
2:K:432:ASN:OD1	2:K:438:GLN:NE2	2.32	0.62
2:O:1001:VAL:O	2:O:1003:HIS:N	2.32	0.62
2:L:1139:ARG:NH1	2:L:1140:PRO:O	2.32	0.62
2:L:1244:TYR:HB2	2:L:1266:PHE:HD2	1.64	0.62
2:L:419:THR:HG22	2:L:421:ARG:H	1.64	0.62
2:M:1359:ILE:HG23	2:M:1360:ILE:HG13	1.82	0.62
2:O:748:HIS:O	2:O:756:ARG:NH1	2.32	0.62
2:E:1001:VAL:O	2:E:1003:HIS:N	2.27	0.62
2:G:565:LEU:HD22	2:G:1177:THR:HG21	1.81	0.62
2:I:556:ILE:HG21	2:I:986:TRP:HZ3	1.65	0.62
2:K:1156:MET:SD	2:K:1294:ARG:NH1	2.73	0.62
2:N:93:PHE:HB2	2:N:116:VAL:HG23	1.81	0.62
2:P:661:LEU:HD23	2:P:666:LEU:HD11	1.80	0.62
1:7:140:VAL:HB	1:7:142:GLU:HG3	1.82	0.62
2:A:936:PRO:HB3	2:A:952:LEU:HD23	1.80	0.62
2:B:392:THR:HA	2:B:1039:THR:HA	1.81	0.62
2:B:691:PRO:HG2	2:C:968:ARG:HD3	1.81	0.62
2:D:998:CYS:SG	2:D:1004:SER:OG	2.53	0.62
2:E:609:LEU:HB2	2:E:860:LEU:HB3	1.82	0.62
2:F:1313:ASN:HB3	2:F:1316:ARG:HG2	1.80	0.62
2:A:151:ILE:HG23	2:G:35:LEU:HD21	1.80	0.62
2:I:1110:VAL:HA	2:I:1171:ALA:HB3	1.81	0.62
2:L:600:THR:OG1	2:L:645:LEU:O	2.12	0.62
2:A:1057:VAL:HG12	2:A:1083:THR:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1194:GLY:HA3	2:B:1230:ASN:HB2	1.81	0.62
2:D:491:ALA:HA	2:D:494:ARG:HB3	1.81	0.62
2:J:487:PRO:O	2:J:494:ARG:NH2	2.33	0.62
2:M:727:MET:HB2	2:M:730:VAL:HB	1.80	0.62
2:N:1066:LYS:HG3	2:N:1075:TYR:HE1	1.64	0.62
2:B:707:VAL:HG11	2:B:1022:LEU:HD23	1.82	0.62
2:C:1104:THR:HG22	2:C:1106:MET:H	1.65	0.62
2:C:739:LEU:HD22	2:C:744:ILE:HG21	1.82	0.62
2:E:672:PHE:HA	2:E:675:ARG:HG2	1.80	0.62
2:F:617:VAL:HG12	2:F:619:GLY:H	1.63	0.62
2:H:945:ASN:HB3	2:H:948:ILE:HG22	1.80	0.62
2:J:461:LEU:HD13	2:J:552:CYS:HB2	1.81	0.62
2:N:1161:ALA:HB3	2:N:1164:THR:HG22	1.81	0.62
2:O:693:LEU:HD11	2:O:1026:ALA:HB2	1.82	0.62
2:C:688:SER:HB2	2:C:708:ASN:HD22	1.65	0.62
2:E:311:ASN:ND2	2:E:322:LEU:O	2.33	0.62
2:F:883:VAL:HG11	3:V:65:LEU:HG	1.82	0.62
2:M:341:ASN:OD1	2:M:342:ASP:N	2.32	0.62
2:O:260:THR:HG22	2:O:352:LEU:HD21	1.82	0.62
2:G:553:THR:HG21	2:G:983:TYR:HB3	1.81	0.62
2:H:1268:THR:HA	2:H:1271:ILE:HG22	1.82	0.62
2:J:1038:ARG:NH1	2:J:1107:GLY:O	2.32	0.62
2:L:66:PHE:HA	2:L:176:ILE:HD11	1.82	0.62
2:N:694:ASN:HD22	2:N:704:SER:HB3	1.63	0.62
2:P:654:VAL:HG23	2:P:674:TYR:HD1	1.65	0.62
2:A:565:LEU:HD22	2:A:1177:THR:HG21	1.82	0.61
2:E:712:ASP:O	2:E:782:LYS:NZ	2.33	0.61
2:L:1060:ASN:O	2:L:1079:GLN:NE2	2.27	0.61
2:M:1069:ARG:NH1	2:M:1074:THR:OG1	2.33	0.61
2:M:435:ARG:HG3	2:M:1367:LEU:HD13	1.82	0.61
2:N:931:ILE:HD11	2:N:952:LEU:HA	1.82	0.61
2:O:727:MET:HB2	2:O:730:VAL:HB	1.82	0.61
2:O:583:ARG:NH2	2:P:572:GLU:OE2	2.33	0.61
2:C:1327:THR:HG22	2:C:1355:VAL:HG22	1.81	0.61
2:C:263:THR:HB	2:C:267:ALA:HB3	1.82	0.61
2:F:733:VAL:HG23	2:F:894:GLU:HB3	1.81	0.61
2:H:524:VAL:HA	2:H:1227:ALA:HB2	1.82	0.61
2:P:430:LEU:HD12	2:P:1108:VAL:HG22	1.82	0.61
2:B:263:THR:HB	2:B:267:ALA:HB3	1.81	0.61
2:F:269:ILE:HD13	2:F:368:ILE:HD11	1.82	0.61
2:F:862:GLU:HA	2:F:872:LEU:HD21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1347:SER:HB3	2:G:1357:GLY:H	1.64	0.61
2:I:1336:LYS:HE3	2:I:1355:VAL:HG11	1.82	0.61
2:J:173:ARG:HB3	2:K:100:VAL:HG23	1.82	0.61
2:C:440:ILE:HB	2:C:1108:VAL:HG12	1.82	0.61
2:F:1064:VAL:HG22	2:F:1077:VAL:HG12	1.82	0.61
2:F:1191:ASN:ND2	2:F:1319:GLN:O	2.33	0.61
2:K:732:VAL:HG22	2:K:895:VAL:HG22	1.82	0.61
2:K:945:ASN:ND2	2:K:947:THR:OG1	2.34	0.61
2:E:884:GLN:HA	3:U:66:ARG:HB2	1.82	0.61
2:N:606:TYR:HB3	2:N:925:THR:HG21	1.81	0.61
1:6:88:ALA:HB2	1:6:109:LEU:HD22	1.83	0.61
2:A:1238:CYS:SG	2:A:1240:SER:OG	2.57	0.61
2:A:234:ARG:NH1	2:A:1369:ASN:HA	2.14	0.61
2:C:269:ILE:HA	2:C:366:THR:HB	1.82	0.61
2:E:558:ILE:HD11	2:E:1031:GLY:HA3	1.82	0.61
2:D:421:ARG:HD3	2:E:404:ASP:HB3	1.81	0.61
2:I:259:THR:HG22	2:I:352:LEU:HD11	1.83	0.61
2:K:770:ASP:O	2:K:772:ARG:N	2.32	0.61
2:L:657:ILE:HG23	2:L:661:LEU:HD22	1.82	0.61
2:M:1289:ALA:O	2:M:1316:ARG:NH1	2.33	0.61
2:M:447:LYS:HD2	2:M:1112:ASP:HB3	1.82	0.61
2:O:983:TYR:O	2:O:988:ARG:NH2	2.33	0.61
2:H:884:GLN:HA	3:X:66:ARG:HB2	1.83	0.61
1:7:129:LEU:HD11	1:7:207:GLY:HA3	1.83	0.61
2:A:426:THR:HG23	2:A:427:THR:HG23	1.82	0.61
2:F:446:LEU:HD11	2:F:1021:VAL:HG22	1.82	0.61
2:H:554:PRO:HD3	2:H:907:LEU:HD12	1.82	0.61
2:M:1064:VAL:HG22	2:M:1077:VAL:HG12	1.83	0.61
2:K:15:ILE:HG21	2:O:254:ILE:HG23	1.81	0.61
2:P:461:LEU:HD13	2:P:552:CYS:HB2	1.82	0.61
2:B:941:ARG:HD2	2:B:982:GLU:HG3	1.83	0.61
2:E:820:MET:HG3	2:E:877:ARG:HH21	1.65	0.61
2:F:417:ASN:OD1	2:F:422:ASN:ND2	2.33	0.61
2:G:1259:TYR:OH	2:G:1264:GLN:NE2	2.33	0.61
2:G:606:TYR:HB3	2:G:925:THR:HG21	1.82	0.61
2:P:1103:ARG:NH2	2:P:1295:GLY:O	2.33	0.61
1:6:28:ASP:OD1	1:6:176:ARG:NH1	2.31	0.61
1:8:105:HIS:O	1:8:131:SER:OG	2.18	0.61
2:F:475:MET:SD	2:F:1218:ARG:NH2	2.73	0.61
2:I:661:LEU:HD23	2:I:666:LEU:HD11	1.81	0.61
1:5:73:LEU:O	1:5:77:LEU:N	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1065:THR:HB	2:A:1076:HIS:HB2	1.83	0.61
2:C:216:LEU:HD13	2:C:1200:LEU:HD12	1.82	0.61
2:C:515:ASP:HA	2:C:993:ARG:HH22	1.65	0.61
2:D:494:ARG:HA	2:D:497:HIS:HD2	1.66	0.61
2:F:524:VAL:HA	2:F:1227:ALA:HB2	1.83	0.61
2:F:263:THR:HB	2:F:267:ALA:HB3	1.82	0.61
2:G:263:THR:HB	2:G:267:ALA:HB3	1.82	0.61
2:G:326:ASN:HA	2:G:329:LYS:HE2	1.83	0.61
2:H:1038:ARG:NH1	2:H:1107:GLY:O	2.33	0.61
2:J:475:MET:SD	2:J:1218:ARG:NH2	2.73	0.61
2:L:263:THR:HB	2:L:267:ALA:HB3	1.82	0.61
2:M:1250:GLU:HA	2:M:1254:TYR:HE1	1.66	0.61
2:M:698:LEU:HB2	2:M:706:TYR:HE2	1.66	0.61
2:N:1059:ILE:HG22	2:N:1081:ILE:HG22	1.83	0.61
2:A:926:ALA:H	2:A:948:ILE:HD11	1.64	0.60
2:E:1104:THR:HG22	2:E:1106:MET:H	1.63	0.60
2:E:1154:GLY:HA3	2:E:1257:LYS:HG3	1.82	0.60
2:F:1200:LEU:HD21	2:F:1281:THR:HG21	1.83	0.60
2:H:695:ASN:H	2:H:703:LEU:HD23	1.66	0.60
2:I:4:TRP:O	2:I:6:ALA:N	2.33	0.60
2:J:945:ASN:HB3	2:J:948:ILE:HG22	1.83	0.60
2:N:432:ASN:OD1	2:N:438:GLN:NE2	2.34	0.60
2:A:145:GLY:HA3	2:B:307:LEU:HD21	1.83	0.60
2:C:747:ARG:NH2	2:C:767:PHE:O	2.34	0.60
2:E:794:ASN:ND2	2:E:995:SER:O	2.34	0.60
2:I:968:ARG:HG3	2:I:972:GLY:HA2	1.82	0.60
2:J:760:MET:HB3	2:J:889:HIS:CD2	2.36	0.60
2:A:693:LEU:O	2:A:695:ASN:N	2.33	0.60
2:J:417:ASN:O	2:J:422:ASN:ND2	2.31	0.60
2:N:139:LEU:HD22	2:N:160:VAL:HG21	1.83	0.60
2:E:600:THR:OG1	2:E:645:LEU:O	2.17	0.60
2:G:212:ARG:HH22	2:G:1204:PRO:HD3	1.66	0.60
1:2:92:TYR:OH	1:2:110:ASP:OD2	2.18	0.60
2:B:1228:THR:HG23	2:B:1234:SER:HB3	1.84	0.60
2:B:610:CYS:HA	2:B:647:PHE:HE1	1.67	0.60
2:F:1054:CYS:SG	2:F:1055:THR:N	2.74	0.60
2:F:450:CYS:O	2:F:1122:TYR:OH	2.18	0.60
2:I:705:ALA:HB1	2:I:712:ASP:HB3	1.82	0.60
2:I:1044:VAL:HG11	2:I:1096:VAL:HG13	1.84	0.60
2:J:694:ASN:HD22	2:J:704:SER:HB3	1.66	0.60
2:K:600:THR:OG1	2:K:645:LEU:O	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:631:VAL:HG13	2:N:661:LEU:HD21	1.82	0.60
2:P:1001:VAL:O	2:P:1003:HIS:N	2.30	0.60
2:A:1309:GLN:HB2	2:A:1316:ARG:HG3	1.84	0.60
2:I:1059:ILE:HG22	2:I:1081:ILE:HG22	1.83	0.60
2:M:102:SER:HB3	2:M:108:THR:HG22	1.83	0.60
1:4:65:GLU:O	1:4:69:HIS:ND1	2.32	0.60
2:B:269:ILE:HG21	2:B:368:ILE:HG12	1.84	0.60
2:D:800:LEU:HD22	2:D:952:LEU:HD21	1.83	0.60
2:O:627:ILE:HD11	2:O:882:ALA:HB2	1.83	0.60
2:A:88:THR:HG22	2:A:90:LYS:H	1.66	0.60
2:B:195:THR:HG21	2:B:215:ILE:HG23	1.84	0.60
2:I:1064:VAL:HG22	2:I:1077:VAL:HG12	1.84	0.60
2:I:760:MET:HB3	2:I:889:HIS:HD2	1.66	0.60
2:D:1064:VAL:HG21	2:J:1:MET:HG3	137.17	0.60
2:N:1193:ARG:HH21	2:N:1197:SER:HB3	1.66	0.60
2:P:527:ILE:HG22	2:P:1218:ARG:HH22	1.66	0.60
2:B:422:ASN:ND2	2:C:404:ASP:O	2.34	0.60
2:D:717:PRO:HD3	2:D:782:LYS:HG2	1.84	0.60
2:H:435:ARG:HG3	2:H:1367:LEU:HD23	1.84	0.60
2:K:705:ALA:HB1	2:K:712:ASP:HB3	1.83	0.60
2:O:760:MET:HB3	2:O:889:HIS:CD2	2.37	0.60
2:O:1165:VAL:HG23	2:P:216:LEU:HD23	1.84	0.60
2:B:1156:MET:SD	2:B:1294:ARG:NH1	2.76	0.59
2:C:716:TRP:HB2	2:C:914:GLN:HE21	1.67	0.59
2:D:1250:GLU:HA	2:D:1254:TYR:HE1	1.67	0.59
2:E:127:ILE:HD12	2:E:128:PRO:HD2	1.84	0.59
2:L:115:MET:HE1	2:N:8:GLU:HG2	1.84	0.59
1:6:16:LEU:HD13	1:6:58:LEU:HD21	1.83	0.59
2:E:888:GLU:O	2:E:919:ASN:ND2	2.35	0.59
2:F:274:VAL:HA	2:F:370:GLU:HB3	1.84	0.59
2:F:274:VAL:HG12	2:F:370:GLU:HG2	1.84	0.59
2:F:606:TYR:HH	2:F:610:CYS:HG	1.45	0.59
2:K:694:ASN:HD22	2:K:704:SER:HB3	1.67	0.59
2:K:895:VAL:HB	2:K:914:GLN:HB2	1.83	0.59
2:L:64:VAL:HG11	2:L:375:VAL:HG12	1.84	0.59
2:D:1115:ARG:O	2:D:1255:ASN:ND2	2.36	0.59
2:D:1193:ARG:HH22	2:D:1214:ILE:HD11	1.67	0.59
2:D:514:GLN:HG3	2:D:563:ASP:H	1.67	0.59
2:H:315:ALA:HB2	2:H:321:ILE:HD11	1.83	0.59
2:L:611:TYR:CZ	2:L:923:VAL:HG13	2.37	0.59
2:P:1268:THR:HA	2:P:1271:ILE:HG22	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:446:LEU:HG	2:P:1021:VAL:HG22	1.84	0.59
1:9:49:ARG:HH21	1:9:241:MET:HB2	1.67	0.59
2:A:733:VAL:HG12	2:A:738:PRO:HA	1.84	0.59
2:D:565:LEU:HD22	2:D:1177:THR:HG21	1.84	0.59
2:D:227:LEU:HD21	2:D:391:LEU:HD21	1.82	0.59
2:D:708:ASN:HA	2:D:1013:TYR:HA	1.84	0.59
2:E:106:LEU:HD12	2:E:107:PRO:HD2	1.83	0.59
2:H:214:ASN:HB3	2:M:1101:ARG:HD2	1.84	0.59
2:H:79:LYS:N	2:H:303:GLY:O	2.32	0.59
2:H:556:ILE:HG21	2:H:986:TRP:HZ3	1.67	0.59
2:J:927:PRO:HD2	2:J:952:LEU:HD11	1.84	0.59
2:L:133:ALA:N	2:L:1071:ILE:O	2.31	0.59
2:M:705:ALA:HB1	2:M:712:ASP:HB3	1.83	0.59
2:B:725:ARG:HH21	2:B:774:THR:HG22	1.68	0.59
2:D:667:PRO:HD2	2:D:670:LEU:HD12	1.84	0.59
2:F:63:TRP:HH2	2:F:165:LYS:HD2	1.67	0.59
2:J:725:ARG:NH2	2:K:961:THR:OG1	2.35	0.59
2:C:378:ASN:HA	2:L:22:HIS:CD2	2.37	0.59
2:N:1103:ARG:HH22	2:N:1295:GLY:HA2	1.66	0.59
2:B:651:TYR:HB2	2:B:784:PHE:CG	2.38	0.59
2:D:23:VAL:HG21	2:D:36:ARG:HH21	1.67	0.59
2:F:54:PHE:HB2	2:G:91:MET:HG2	1.83	0.59
2:J:1057:VAL:HG12	2:J:1083:THR:HG22	1.85	0.59
2:L:760:MET:HB3	2:L:889:HIS:HD2	1.67	0.59
2:A:45:ARG:HH21	2:B:255:LEU:HB2	1.68	0.59
2:F:420:VAL:HG23	2:F:585:ARG:HH12	1.66	0.59
2:K:1044:VAL:HG11	2:K:1096:VAL:HG13	1.83	0.59
2:O:705:ALA:HB1	2:O:712:ASP:HB3	1.83	0.59
2:D:1101:ARG:HH11	2:E:214:ASN:HD22	1.49	0.59
2:E:1195:ARG:NH2	2:E:1216:ASP:O	2.36	0.59
2:E:705:ALA:HB1	2:E:712:ASP:HB3	1.85	0.59
2:F:554:PRO:HD3	2:F:907:LEU:HD12	1.85	0.59
2:N:600:THR:OG1	2:N:645:LEU:O	2.14	0.59
2:O:56:THR:HG22	2:P:92:LEU:HB2	1.85	0.59
2:A:1277:THR:HA	2:A:1280:LYS:HE2	1.85	0.59
2:D:1041:THR:N	2:D:1104:THR:OG1	2.32	0.59
2:F:1068:GLU:HG3	2:F:1073:THR:HG22	1.84	0.59
2:F:800:LEU:HA	2:F:937:VAL:HG12	1.84	0.59
2:G:1194:GLY:HA3	2:G:1230:ASN:HB2	1.83	0.59
2:J:945:ASN:ND2	2:J:947:THR:OG1	2.35	0.59
2:J:583:ARG:NH2	2:K:572:GLU:OE2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:654:VAL:HG23	2:K:674:TYR:HD1	1.66	0.59
2:L:291:ILE:HG12	2:L:360:ILE:HG22	1.85	0.59
2:L:747:ARG:NH2	2:L:918:TYR:OH	2.35	0.59
2:M:489:GLY:HA2	2:M:763:ASP:HB3	1.85	0.59
2:O:315:ALA:HB2	2:O:321:ILE:HD11	1.84	0.59
2:A:862:GLU:HA	2:A:872:LEU:HD21	1.85	0.59
2:E:1176:LEU:HD21	2:E:1233:ALA:HB2	1.85	0.59
2:F:50:PHE:HB2	2:G:86:LEU:HA	1.85	0.59
2:G:1193:ARG:NH2	2:G:1214:ILE:O	2.36	0.59
2:H:1109:ARG:NH2	2:I:1225:PHE:O	2.34	0.59
2:I:1285:TYR:HA	2:I:1289:ALA:HB3	1.84	0.59
2:J:1104:THR:HG22	2:J:1106:MET:H	1.68	0.59
2:J:1195:ARG:NH1	2:J:1227:ALA:O	2.36	0.59
2:K:662:ALA:O	2:L:642:ARG:NH1	2.35	0.59
2:N:698:LEU:HB2	2:N:706:TYR:HE2	1.68	0.59
2:O:341:ASN:OD1	2:O:342:ASP:N	2.35	0.59
1:3:105:HIS:HB3	1:3:131:SER:HA	1.85	0.58
2:D:224:LEU:HD22	2:D:1360:ILE:HD11	1.86	0.58
2:D:269:ILE:HG12	2:D:368:ILE:HD11	1.84	0.58
2:E:419:THR:HG22	2:E:421:ARG:H	1.67	0.58
2:E:808:LEU:HD23	2:E:883:VAL:HG13	1.85	0.58
2:G:295:THR:HA	2:G:356:SER:HA	1.85	0.58
2:G:970:ASP:HB3	2:G:996:ALA:HB3	1.84	0.58
2:L:1279:PHE:HD2	2:N:31:MET:HB2	1.66	0.58
2:N:1328:THR:HG21	2:N:1353:ASN:HA	1.85	0.58
2:P:1202:VAL:HG11	2:P:1210:ALA:HB2	1.85	0.58
2:G:130:GLU:HB3	2:G:1074:THR:HG22	1.84	0.58
1:5:70:ASN:ND2	1:6:189:ASP:OD2	2.36	0.58
2:L:554:PRO:HD3	2:L:907:LEU:HD12	1.86	0.58
2:K:59:ASN:HB3	2:L:95:VAL:HG22	1.85	0.58
1:8:88:ALA:HB2	1:8:109:LEU:HD22	1.85	0.58
2:A:435:ARG:CZ	2:A:1367:LEU:HB3	2.33	0.58
2:D:114:ILE:HD13	2:L:23:VAL:HG22	1.86	0.58
2:H:202:LEU:HD12	2:H:203:ALA:HB2	1.85	0.58
2:H:748:HIS:HE1	2:H:751:VAL:HB	1.68	0.58
2:A:1238:CYS:HG	2:A:1240:SER:HG	1.49	0.58
2:A:717:PRO:HD3	2:A:782:LYS:HG2	1.85	0.58
2:B:124:PRO:HB3	2:B:1080:ASN:HD22	1.68	0.58
2:B:1124:HIS:ND1	2:B:1125:ASP:O	2.35	0.58
2:D:514:GLN:HE21	2:D:563:ASP:HB2	1.67	0.58
2:A:3:ASN:HD21	2:G:1079:GLN:HE22	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:719:PHE:HE2	2:H:922:CYS:HB2	1.66	0.58
2:J:1215:TYR:HD1	2:J:1236:ALA:HB2	1.69	0.58
2:K:1124:HIS:CE1	2:K:1126:GLU:HB3	2.39	0.58
2:M:945:ASN:ND2	2:M:947:THR:OG1	2.36	0.58
2:P:800:LEU:HA	2:P:937:VAL:HG12	1.86	0.58
2:A:451:HIS:CD2	2:A:453:VAL:HG12	2.37	0.58
2:B:1290:LYS:HB3	2:B:1310:LEU:HB3	1.84	0.58
2:C:189:PRO:HD3	2:C:1286:LEU:HD21	1.84	0.58
2:F:647:PHE:HD2	2:F:653:LEU:HD13	1.69	0.58
2:G:478:LEU:HD11	2:G:509:VAL:HG13	1.85	0.58
2:H:457:PRO:HG3	2:H:907:LEU:HG	1.86	0.58
2:H:708:ASN:HB3	2:H:711:HIS:HD2	1.68	0.58
2:J:963:PHE:HB3	2:J:966:TYR:HD2	1.69	0.58
2:K:478:LEU:HD11	2:K:509:VAL:HG13	1.85	0.58
2:P:486:GLU:OE2	2:P:494:ARG:NH1	2.31	0.58
2:H:813:TYR:OH	3:X:26:LEU:O	2.21	0.58
2:B:1057:VAL:HG12	2:B:1083:THR:HG22	1.85	0.58
2:D:1110:VAL:HA	2:D:1171:ALA:HB3	1.84	0.58
2:D:647:PHE:HD1	2:D:653:LEU:HD23	1.68	0.58
2:F:1110:VAL:HA	2:F:1171:ALA:HB3	1.84	0.58
2:F:624:PHE:HB2	2:F:656:LEU:HD13	1.84	0.58
2:G:1122:TYR:HB2	2:G:1128:ASP:HB2	1.86	0.58
2:G:120:SER:HB3	2:G:1084:VAL:HG12	1.86	0.58
2:G:945:ASN:HB3	2:G:948:ILE:HG22	1.85	0.58
2:G:975:LEU:HB2	2:G:980:ALA:HB2	1.85	0.58
2:H:558:ILE:HA	2:H:1015:ILE:HD11	1.86	0.58
2:H:853:VAL:HB	2:H:857:LEU:HD23	1.84	0.58
2:K:124:PRO:HG2	3:T:40:LEU:HD21	184.98	0.58
2:L:1230:ASN:HB3	2:L:1233:ALA:HB3	1.85	0.58
2:O:1101:ARG:HD2	2:P:214:ASN:HB3	1.84	0.58
2:A:49:HIS:O	2:G:55:GLY:N	2.21	0.58
2:A:78:ILE:HB	2:A:1058:ILE:HG12	1.85	0.58
2:B:604:PRO:HA	2:B:925:THR:HG21	1.85	0.58
2:C:890:VAL:HA	2:C:919:ASN:HB2	1.86	0.58
2:C:1160:ASN:HB3	2:D:209:ARG:NH1	2.19	0.58
2:G:1115:ARG:HH12	2:G:1139:ARG:HD3	1.67	0.58
2:L:1027:HIS:HE1	2:M:520:ASP:HB2	1.69	0.58
2:M:941:ARG:HG3	2:M:992:SER:HB3	1.85	0.58
2:A:809:VAL:HG21	3:Q:58:CYS:HB3	1.84	0.58
2:C:667:PRO:HD2	2:C:670:LEU:HD12	1.86	0.58
2:D:451:HIS:CE1	2:D:1114:PHE:HA	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:739:LEU:HB3	2:G:744:ILE:HG21	1.85	0.58
2:H:608:GLU:HG2	2:H:927:PRO:HA	1.86	0.58
2:J:263:THR:HB	2:J:267:ALA:HB3	1.85	0.58
2:O:1059:ILE:HG22	2:O:1081:ILE:HG22	1.85	0.58
2:P:733:VAL:HG12	2:P:738:PRO:HA	1.86	0.58
3:S:28:LEU:HD13	3:S:32:ILE:HG21	1.85	0.58
2:B:800:LEU:HG	2:B:923:VAL:HG21	1.85	0.58
2:G:895:VAL:HB	2:G:914:GLN:HB2	1.86	0.58
2:M:527:ILE:HG22	2:M:1218:ARG:HH12	1.68	0.58
2:A:725:ARG:HG3	2:A:771:TYR:HE2	1.69	0.57
2:A:861:VAL:HG13	2:A:865:ALA:HB3	1.85	0.57
2:B:488:MET:HG3	2:B:894:GLU:HB2	1.85	0.57
2:E:941:ARG:HG3	2:E:992:SER:HB3	1.86	0.57
2:F:599:THR:O	2:F:603:SER:OG	2.19	0.57
2:H:1341:ALA:HA	2:H:1364:GLN:NE2	2.18	0.57
2:I:212:ARG:HH22	2:I:1204:PRO:HD3	1.69	0.57
2:I:861:VAL:HG13	2:I:865:ALA:HB3	1.85	0.57
2:J:435:ARG:HG3	2:J:1367:LEU:HD13	1.86	0.57
2:K:361:ARG:HG2	2:K:366:THR:HG22	1.85	0.57
2:O:816:ALA:HB2	2:O:852:ALA:HB1	1.85	0.57
2:P:747:ARG:NH2	2:P:918:TYR:OH	2.37	0.57
2:A:1037:VAL:HG21	2:A:1262:CYS:HB2	1.86	0.57
2:A:627:ILE:HD11	2:A:882:ALA:HB2	1.86	0.57
2:B:1217:HIS:NE2	2:B:1235:GLN:OE1	2.37	0.57
2:B:419:THR:HB	2:B:422:ASN:HD22	1.69	0.57
2:B:686:ARG:HA	2:B:690:LEU:HD11	1.84	0.57
2:C:1199:MET:HB3	2:C:1275:ASN:HB3	1.86	0.57
2:E:653:LEU:O	2:E:657:ILE:HG12	2.03	0.57
2:F:311:ASN:HB3	2:F:321:ILE:HD12	1.86	0.57
2:H:1327:THR:HA	2:H:1355:VAL:HG22	1.85	0.57
2:I:56:THR:HG22	2:J:92:LEU:HB2	1.85	0.57
2:J:605:ASN:HB2	2:J:642:ARG:HE	1.69	0.57
2:L:534:HIS:HD2	2:L:537:PHE:HD1	1.51	0.57
2:K:21:THR:H	2:O:200:ALA:HB1	1.69	0.57
2:N:56:THR:HG22	2:O:92:LEU:HB2	1.86	0.57
2:C:254:ILE:HD11	2:C:1088:LEU:HG	1.84	0.57
2:D:1182:ASP:HA	2:D:1186:PHE:HD2	1.70	0.57
2:D:212:ARG:HH12	2:D:1204:PRO:HD3	1.68	0.57
2:D:315:ALA:HB2	2:D:321:ILE:HD11	1.84	0.57
2:E:1103:ARG:HD3	2:E:1168:GLN:HE22	1.68	0.57
2:F:1109:ARG:NH1	2:F:1110:VAL:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:303:GLY:HA2	2:F:348:GLY:HA3	1.85	0.57
2:H:216:LEU:HD13	2:H:1200:LEU:HD12	1.86	0.57
2:J:56:THR:HG22	2:K:92:LEU:HB2	1.86	0.57
2:J:4:TRP:O	2:J:6:ALA:N	2.37	0.57
2:L:512:MET:HE2	2:L:527:ILE:CD1	2.21	0.57
2:O:574:ARG:NH2	2:O:1010:ALA:O	2.37	0.57
2:P:534:HIS:HD2	2:P:537:PHE:HD2	1.51	0.57
1:8:103:ARG:HA	1:8:106:LEU:HD12	1.87	0.57
1:8:63:TYR:HE1	1:8:221:GLU:HG3	1.69	0.57
2:F:870:THR:HG23	2:F:874:GLN:HB2	1.87	0.57
2:F:945:ASN:HB3	2:F:948:ILE:HG22	1.87	0.57
2:H:1195:ARG:NH1	2:H:1227:ALA:O	2.38	0.57
2:P:224:LEU:HD22	2:P:1360:ILE:HD11	1.85	0.57
2:F:127:ILE:HD11	2:G:101:ALA:HA	1.85	0.57
2:G:573:LEU:HA	2:G:576:TRP:HD1	1.70	0.57
2:G:733:VAL:HG23	2:G:894:GLU:HB3	1.86	0.57
2:I:419:THR:HG22	2:I:421:ARG:H	1.69	0.57
2:K:1115:ARG:HH22	2:K:1138:GLU:HB3	1.69	0.57
2:L:1104:THR:HG22	2:L:1106:MET:H	1.67	0.57
2:L:507:ARG:HE	2:L:512:MET:HB3	1.69	0.57
2:L:748:HIS:O	2:L:756:ARG:NH1	2.38	0.57
2:K:53:ILE:HG12	2:L:90:LYS:HD2	1.86	0.57
2:J:756:ARG:HH21	3:Z:66:ARG:HH12	1.50	0.57
2:B:227:LEU:HD22	2:B:1360:ILE:HD13	1.85	0.57
2:B:82:ASP:OD2	2:B:1060:ASN:ND2	2.38	0.57
2:C:21:THR:HA	2:M:200:ALA:HB1	1.87	0.57
2:D:422:ASN:ND2	2:E:404:ASP:O	2.38	0.57
2:H:798:CYS:HB2	2:H:945:ASN:H	1.68	0.57
2:J:311:ASN:HB3	2:J:321:ILE:HD12	1.86	0.57
2:M:216:LEU:HD13	2:M:1200:LEU:HD12	1.87	0.57
2:D:32:PHE:HZ	2:N:1088:LEU:HA	1.70	0.57
2:P:1035:THR:HG21	2:P:1176:LEU:HD12	1.86	0.57
2:P:1065:THR:HG23	2:P:1076:HIS:HB2	1.87	0.57
2:E:199:ASN:HA	2:E:202:LEU:HD12	1.86	0.57
2:G:690:LEU:HD13	2:G:693:LEU:HD22	1.87	0.57
2:H:212:ARG:HD3	2:H:1200:LEU:O	2.04	0.57
1:9:63:TYR:HE1	1:9:221:GLU:HG3	1.70	0.57
2:B:1195:ARG:NH1	2:B:1227:ALA:O	2.37	0.57
2:B:654:VAL:HA	2:B:657:ILE:HG22	1.87	0.57
2:B:991:PHE:HE1	2:B:1011:MET:HB3	1.69	0.57
2:D:1069:ARG:O	2:D:1071:ILE:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1245:ASN:O	2:E:1249:ARG:N	2.32	0.57
2:F:1157:SER:HB2	2:F:1258:PHE:HZ	1.70	0.57
2:G:800:LEU:HA	2:G:937:VAL:HG12	1.86	0.57
2:I:315:ALA:HB2	2:I:321:ILE:HD11	1.87	0.57
2:P:605:ASN:HB3	2:P:642:ARG:HE	1.70	0.57
1:3:88:ALA:HB2	1:3:109:LEU:HD22	1.84	0.57
1:5:118:VAL:O	1:5:214:ARG:NH1	2.38	0.57
2:D:1035:THR:HG23	2:D:1176:LEU:HD11	1.86	0.57
2:H:748:HIS:CE1	2:H:751:VAL:HB	2.40	0.57
2:I:66:PHE:HA	2:I:176:ILE:HD11	1.87	0.57
2:J:359:VAL:HG12	2:J:368:ILE:HD13	1.86	0.57
2:J:654:VAL:HG23	2:J:674:TYR:HD2	1.69	0.57
2:J:901:HIS:HA	2:J:904:ARG:HG2	1.86	0.57
2:L:510:ASN:HD21	2:L:982:GLU:HG2	1.70	0.57
2:C:941:ARG:NH1	2:C:989:SER:O	2.38	0.57
2:D:1064:VAL:HG22	2:D:1077:VAL:HG12	1.87	0.57
2:E:158:HIS:CD2	2:F:337:PRO:HB3	2.40	0.57
2:E:484:GLN:HB3	2:E:977:THR:HB	1.87	0.57
2:G:291:ILE:HG13	2:G:360:ILE:HG22	1.85	0.57
2:H:263:THR:HB	2:H:267:ALA:HB3	1.87	0.57
2:M:747:ARG:NH2	2:M:918:TYR:OH	2.38	0.57
2:O:667:PRO:HD2	2:O:670:LEU:HD12	1.87	0.57
3:Q:14:ARG:O	3:Q:18:HIS:ND1	2.36	0.57
2:D:7:LEU:HD12	2:N:92:LEU:HB3	1.87	0.56
2:E:1290:LYS:HE3	2:E:1312:GLU:HB3	1.86	0.56
2:F:681:LEU:HB3	2:F:780:LEU:HD22	1.86	0.56
2:K:1165:VAL:HG21	2:L:1223:GLN:H	1.70	0.56
2:K:37:ILE:HG22	2:O:114:ILE:HG12	1.86	0.56
2:H:527:ILE:HG22	2:H:1218:ARG:HH12	1.70	0.56
2:J:482:ARG:NH1	2:J:544:GLU:O	2.38	0.56
2:J:173:ARG:HH22	2:K:98:PRO:HB2	1.69	0.56
2:M:413:LYS:HD3	2:M:1335:THR:HG21	1.86	0.56
2:M:196:LEU:O	2:M:200:ALA:HB2	2.04	0.56
2:N:945:ASN:ND2	2:N:947:THR:OG1	2.38	0.56
2:C:130:GLU:HA	2:C:1074:THR:HA	1.88	0.56
2:E:804:LEU:HA	2:E:807:LEU:HB3	1.87	0.56
2:G:1041:THR:N	2:G:1104:THR:OG1	2.37	0.56
2:J:556:ILE:HG21	2:J:986:TRP:CZ3	2.40	0.56
2:N:66:PHE:HA	2:N:176:ILE:HD11	1.86	0.56
2:N:739:LEU:HD21	2:N:766:LEU:HD11	1.86	0.56
1:3:63:TYR:HE1	1:3:221:GLU:HG3	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1036:ALA:HB1	2:A:1171:ALA:HB1	1.87	0.56
2:A:220:LYS:HE3	2:A:1319:GLN:HG2	1.88	0.56
2:B:606:TYR:OH	2:B:649:HIS:ND1	2.39	0.56
2:B:95:VAL:HA	2:G:58:CYS:HB3	1.86	0.56
2:F:717:PRO:HG3	2:F:781:GLN:HG3	1.86	0.56
2:H:404:ASP:HB3	2:M:421:ARG:HD2	1.87	0.56
2:J:315:ALA:HB2	2:J:321:ILE:HD11	1.86	0.56
2:I:662:ALA:HB1	2:J:605:ASN:HB3	1.87	0.56
2:M:188:PRO:HA	2:M:1286:LEU:HD21	1.87	0.56
2:M:556:ILE:HG21	2:M:986:TRP:HZ3	1.70	0.56
1:7:172:GLU:OE1	1:7:175:ARG:NH2	2.38	0.56
2:A:798:CYS:SG	2:A:799:GLY:N	2.78	0.56
2:B:83:LEU:HB3	2:B:85:LYS:HG2	1.88	0.56
2:E:804:LEU:HD23	2:E:807:LEU:HD23	1.87	0.56
2:F:420:VAL:HG21	2:F:576:TRP:HB3	1.87	0.56
2:G:667:PRO:HD2	2:G:670:LEU:HD12	1.86	0.56
2:K:687:ILE:O	2:K:1013:TYR:OH	2.23	0.56
2:N:791:ALA:O	2:N:1000:ASN:ND2	2.39	0.56
2:O:1336:LYS:HE3	2:O:1355:VAL:HG11	1.88	0.56
1:3:28:ASP:HA	1:3:176:ARG:HB3	1.87	0.56
2:C:1177:THR:HG1	2:C:1180:THR:HG1	1.50	0.56
2:C:931:ILE:HD11	2:C:952:LEU:HA	1.88	0.56
2:D:478:LEU:CD1	2:D:512:MET:SD	2.91	0.56
2:E:1059:ILE:HG22	2:E:1081:ILE:HG22	1.88	0.56
2:E:1250:GLU:HA	2:E:1254:TYR:HE1	1.69	0.56
2:F:507:ARG:NH2	2:F:511:GLU:HB3	2.20	0.56
2:G:647:PHE:CD1	2:G:653:LEU:HD12	2.40	0.56
2:H:196:LEU:O	2:H:200:ALA:N	2.39	0.56
2:H:382:LYS:HZ3	2:I:202:LEU:HD23	1.70	0.56
2:I:429:TYR:HB3	2:I:437:VAL:HG13	1.87	0.56
2:K:536:PHE:O	2:K:555:ARG:N	2.33	0.56
2:L:1168:GLN:HG3	2:M:210:ILE:HD11	1.87	0.56
2:N:760:MET:HB3	2:N:889:HIS:HD2	1.70	0.56
2:O:1064:VAL:HG13	2:O:1075:TYR:HB3	1.87	0.56
2:O:1195:ARG:NH1	2:O:1227:ALA:O	2.38	0.56
2:P:126:THR:HG22	2:P:128:PRO:HD3	1.87	0.56
2:P:485:GLN:OE1	2:P:913:ARG:NH1	2.39	0.56
2:P:801:GLY:HA3	2:P:890:VAL:HG11	1.87	0.56
1:6:118:VAL:O	1:6:214:ARG:NH1	2.38	0.56
2:E:535:PRO:HD2	2:E:1239:LEU:HD23	1.88	0.56
2:H:698:LEU:HB2	2:H:706:TYR:HE2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:53:ILE:HG12	2:I:90:LYS:HD2	1.87	0.56
2:N:945:ASN:HB3	2:N:948:ILE:HG22	1.88	0.56
2:O:450:CYS:O	2:O:1122:TYR:OH	2.22	0.56
2:P:391:LEU:HD23	2:P:1322:LEU:HD12	1.88	0.56
2:D:139:LEU:HD22	2:D:160:VAL:HG21	1.87	0.56
2:D:495:ILE:HG23	2:D:496:PRO:HD3	1.86	0.56
2:E:931:ILE:HD11	2:E:952:LEU:HA	1.87	0.56
2:F:1244:TYR:HB2	2:F:1266:PHE:HD2	1.69	0.56
2:H:747:ARG:NH2	2:H:918:TYR:OH	2.38	0.56
2:J:730:VAL:HG13	2:J:895:VAL:HG13	1.88	0.56
2:K:475:MET:SD	2:K:1218:ARG:NH2	2.79	0.56
2:C:148:LEU:HD11	2:L:48:ILE:HG21	1.88	0.56
2:M:79:LYS:N	2:M:303:GLY:O	2.39	0.56
2:M:853:VAL:HB	2:M:857:LEU:HD23	1.87	0.56
1:O:172:GLU:OE2	1:O:175:ARG:NH2	2.39	0.56
2:A:667:PRO:HD2	2:A:670:LEU:HD12	1.87	0.56
2:B:66:PHE:HA	2:B:176:ILE:HD11	1.87	0.56
2:C:941:ARG:NH1	2:C:992:SER:OG	2.39	0.56
2:D:451:HIS:HB3	2:D:453:VAL:HG12	1.87	0.56
2:F:61:LEU:HD13	2:G:96:GLN:HE21	1.71	0.56
2:I:808:LEU:HD23	2:I:883:VAL:HG13	1.86	0.56
2:J:485:GLN:HE22	2:J:913:ARG:HH12	1.54	0.56
2:I:54:PHE:HB2	2:J:91:MET:HG2	1.87	0.56
2:K:1122:TYR:HB2	2:K:1128:ASP:HB2	1.88	0.56
2:M:609:LEU:HD13	2:M:860:LEU:HB3	1.88	0.56
2:P:1059:ILE:HG22	2:P:1081:ILE:HG22	1.88	0.56
2:O:439:LYS:NZ	2:P:519:THR:OG1	2.38	0.56
1:1:126:GLU:OE2	1:1:215:ARG:NH2	2.39	0.56
1:3:43:GLU:HG2	1:3:44:LYS:HG2	1.88	0.56
2:A:988:ARG:HB3	2:A:990:PRO:HD2	1.86	0.56
2:B:800:LEU:HA	2:B:937:VAL:HG12	1.88	0.56
2:C:605:ASN:OD1	2:C:642:ARG:NH2	2.39	0.56
2:C:127:ILE:HD11	2:D:101:ALA:HA	1.87	0.56
2:E:642:ARG:HE	2:E:644:LEU:HD21	1.71	0.56
2:F:1046:MET:HG2	2:F:1096:VAL:HA	1.87	0.56
2:F:537:PHE:HA	2:F:554:PRO:HA	1.87	0.56
2:G:1104:THR:HG22	2:G:1106:MET:H	1.70	0.56
2:G:554:PRO:HD3	2:G:907:LEU:HD12	1.87	0.56
2:G:555:ARG:HG3	2:G:560:ASN:HB2	1.87	0.56
2:H:600:THR:OG1	2:H:645:LEU:O	2.17	0.56
2:I:945:ASN:HD22	2:I:948:ILE:HG12	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:311:ASN:HB3	2:K:321:ILE:HD12	1.86	0.56
2:L:1185:TYR:OH	2:L:1191:ASN:O	2.16	0.56
2:M:434:ASP:HA	2:M:1367:LEU:HD21	1.87	0.56
2:O:927:PRO:HB2	2:O:930:LEU:HB2	1.87	0.56
2:B:85:LYS:HB3	2:B:88:THR:HG22	1.86	0.56
2:C:339:LEU:HD12	2:C:340:PRO:HD2	1.87	0.56
2:D:1241:ASP:OD2	2:D:1248:HIS:ND1	2.35	0.56
2:D:387:ARG:HH21	2:D:1312:GLU:HG2	1.71	0.56
2:F:707:VAL:HG22	2:F:1019:SER:HA	1.86	0.56
2:F:445:ALA:HA	2:F:1110:VAL:HG21	1.88	0.56
2:G:970:ASP:HB2	2:G:993:ARG:HA	1.88	0.56
2:I:212:ARG:NH2	2:I:1202:VAL:O	2.39	0.56
2:J:1172:CYS:SG	2:J:1173:GLU:N	2.77	0.56
2:J:435:ARG:N	2:J:1367:LEU:HD11	2.21	0.56
2:K:1039:THR:HB	2:K:1261:PRO:HB3	1.88	0.56
2:M:208:ASN:HB2	2:M:211:GLN:HG2	1.88	0.56
2:O:78:ILE:HB	2:O:1058:ILE:HG22	1.88	0.56
2:P:1244:TYR:HA	2:P:1249:ARG:HH21	1.71	0.56
2:C:315:ALA:HB2	2:C:321:ILE:HD11	1.88	0.55
2:C:857:LEU:HD21	2:C:876:CYS:HB2	1.87	0.55
2:E:1182:ASP:HA	2:E:1186:PHE:HD2	1.70	0.55
2:I:1104:THR:HG22	2:I:1106:MET:H	1.71	0.55
2:I:1289:ALA:O	2:I:1316:ARG:NH1	2.36	0.55
2:L:433:ARG:NH1	2:L:1165:VAL:O	2.37	0.55
2:L:421:ARG:HD3	2:M:404:ASP:HB3	1.88	0.55
2:L:486:GLU:OE2	2:L:494:ARG:NH1	2.39	0.55
2:M:661:LEU:HD23	2:M:666:LEU:HD11	1.87	0.55
2:O:681:LEU:HB3	2:O:780:LEU:HD22	1.87	0.55
1:6:49:ARG:NH2	1:6:238:GLU:O	2.38	0.55
1:8:184:LEU:HG	1:8:186:LEU:H	1.69	0.55
2:B:535:PRO:HD3	2:B:1232:TRP:CD1	2.42	0.55
2:G:524:VAL:O	2:G:1218:ARG:NH1	2.39	0.55
2:G:180:LEU:HD23	2:G:384:PRO:HG2	1.87	0.55
2:H:631:VAL:HG13	2:H:661:LEU:HD21	1.87	0.55
2:J:363:GLY:O	2:J:365:LYS:N	2.34	0.55
2:L:259:THR:HG22	2:L:352:LEU:HD11	1.88	0.55
2:M:556:ILE:HG21	2:M:986:TRP:CZ3	2.41	0.55
2:M:963:PHE:HB3	2:M:966:TYR:HD2	1.70	0.55
2:N:76:HIS:HB3	2:N:1056:SER:HA	1.87	0.55
2:O:130:GLU:HB3	2:O:1074:THR:HG22	1.88	0.55
2:O:642:ARG:HB3	2:O:644:LEU:HG	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1324:ILE:HA	2:A:1358:GLU:HG2	1.88	0.55
2:A:1327:THR:HG22	2:A:1355:VAL:HG22	1.87	0.55
2:C:1004:SER:HA	2:C:1007:THR:HG22	1.88	0.55
2:C:716:TRP:HB3	2:C:916:VAL:HG11	1.89	0.55
2:E:1124:HIS:CE1	2:E:1126:GLU:HB3	2.42	0.55
2:G:642:ARG:HE	2:G:644:LEU:HD21	1.71	0.55
2:L:1132:ARG:HH22	2:L:1140:PRO:HD2	1.70	0.55
2:P:1110:VAL:HA	2:P:1171:ALA:HB3	1.88	0.55
2:P:1193:ARG:HH21	2:P:1197:SER:HB3	1.71	0.55
2:B:976:PRO:O	2:B:980:ALA:N	2.39	0.55
2:F:1293:ILE:HD11	2:F:1300:GLN:HB3	1.89	0.55
2:J:695:ASN:H	2:J:703:LEU:HD23	1.69	0.55
2:L:384:PRO:O	2:L:387:ARG:HG3	2.06	0.55
2:M:277:ALA:HB2	2:M:371:ASN:HD21	1.71	0.55
2:C:120:SER:HB3	2:C:1084:VAL:HG12	1.89	0.55
2:C:899:LEU:HB3	2:C:903:GLN:HE21	1.71	0.55
2:D:180:LEU:HD23	2:D:384:PRO:HG2	1.88	0.55
2:D:705:ALA:HA	2:D:711:HIS:HB2	1.89	0.55
2:D:873:LEU:O	2:D:877:ARG:NH1	2.38	0.55
2:E:1169:LYS:HE3	2:E:1299:THR:HG22	1.89	0.55
2:E:489:GLY:HA2	2:E:763:ASP:HB3	1.89	0.55
2:E:556:ILE:HG21	2:E:986:TRP:CZ3	2.42	0.55
2:H:606:TYR:OH	2:H:610:CYS:SG	2.53	0.55
2:L:945:ASN:ND2	2:L:947:THR:OG1	2.40	0.55
2:M:647:PHE:HD1	2:M:653:LEU:HD13	1.71	0.55
2:O:793:THR:HG21	2:O:797:ALA:HB2	1.88	0.55
2:A:1310:LEU:HD12	2:A:1313:ASN:ND2	2.22	0.55
2:A:653:LEU:O	2:A:657:ILE:HG12	2.06	0.55
2:D:1217:HIS:NE2	2:D:1235:GLN:HG2	2.21	0.55
2:I:693:LEU:HB3	2:I:1022:LEU:HD11	1.87	0.55
2:I:518:VAL:HB	2:I:1179:VAL:HG11	1.88	0.55
2:I:662:ALA:HA	2:I:671:LEU:HD11	1.88	0.55
2:J:487:PRO:HG2	2:J:494:ARG:HH22	1.71	0.55
2:K:698:LEU:HD23	2:K:1127:VAL:HG22	1.87	0.55
2:D:1279:PHE:CD2	2:L:31:MET:HB2	2.40	0.55
2:A:433:ARG:NH1	2:A:1104:THR:O	2.40	0.55
2:A:774:THR:O	2:A:778:TRP:N	2.34	0.55
2:C:609:LEU:HD23	2:C:864:VAL:HG11	1.88	0.55
2:D:801:GLY:HA3	2:D:890:VAL:HG11	1.89	0.55
2:L:274:VAL:HG12	2:L:370:GLU:HB3	1.87	0.55
2:A:600:THR:OG1	2:A:645:LEU:O	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:733:VAL:HA	2:B:738:PRO:HA	1.89	0.55
2:F:514:GLN:HE22	2:F:990:PRO:HD3	1.71	0.55
2:I:626:LEU:HD13	2:I:881:LEU:HB3	1.87	0.55
2:J:805:LYS:H	2:J:889:HIS:HE1	1.55	0.55
2:K:26:SER:HA	2:O:1279:PHE:HE2	1.71	0.55
1:3:172:GLU:OE2	1:3:175:ARG:NH2	2.39	0.55
2:C:212:ARG:HH22	2:C:1203:ASP:HA	1.72	0.55
2:D:23:VAL:HG21	2:D:36:ARG:NH2	2.21	0.55
2:G:1044:VAL:HG13	2:G:1096:VAL:HG13	1.89	0.55
2:G:216:LEU:HD21	2:G:1198:CYS:HB3	1.89	0.55
2:H:1202:VAL:HG11	2:H:1210:ALA:HB2	1.89	0.55
2:H:705:ALA:HB1	2:H:712:ASP:HB3	1.88	0.55
2:I:617:VAL:HG12	2:I:619:GLY:H	1.71	0.55
2:K:583:ARG:NH2	2:L:572:GLU:OE2	2.39	0.55
2:M:145:GLY:O	2:M:150:LYS:NZ	2.39	0.55
2:N:554:PRO:HD3	2:N:907:LEU:HD12	1.88	0.55
2:P:618:HIS:O	2:P:722:HIS:NE2	2.40	0.55
1:1:235:LEU:HD23	1:1:254:LEU:HD21	1.88	0.55
2:B:707:VAL:HG12	2:B:1019:SER:HA	1.89	0.55
2:C:1147:THR:HG23	2:C:1150:MET:HE1	1.89	0.55
2:C:449:LEU:HD13	2:C:1020:LEU:HD21	1.88	0.55
2:C:491:ALA:HA	2:C:494:ARG:HG2	1.89	0.55
2:F:272:VAL:HG23	2:F:368:ILE:HB	1.88	0.55
2:F:657:ILE:HG23	2:F:661:LEU:HD23	1.89	0.55
2:G:212:ARG:NH2	2:G:1202:VAL:O	2.40	0.55
2:I:435:ARG:NH2	2:I:1364:GLN:OE1	2.40	0.55
2:K:717:PRO:HG2	2:K:720:VAL:HG22	1.89	0.55
2:K:127:ILE:HD11	2:L:101:ALA:HA	1.89	0.55
2:O:433:ARG:NH2	2:O:1166:HIS:O	2.40	0.55
2:P:196:LEU:O	2:P:200:ALA:N	2.40	0.55
2:B:626:LEU:HD23	3:R:75:ARG:HB3	1.88	0.55
2:A:747:ARG:HH22	2:A:887:GLY:HA2	1.71	0.54
2:B:633:ARG:HD3	2:B:867:ASP:H	1.72	0.54
2:B:873:LEU:O	2:B:877:ARG:HG2	2.07	0.54
2:B:800:LEU:HD22	2:B:952:LEU:HD21	1.88	0.54
2:D:1169:LYS:HE3	2:D:1299:THR:HG22	1.88	0.54
2:E:174:GLY:HA3	2:F:101:ALA:HB3	1.89	0.54
2:F:1001:VAL:HG12	2:F:1003:HIS:H	1.72	0.54
2:G:180:LEU:HD21	2:G:385:LEU:HG	1.87	0.54
2:G:431:LEU:HA	2:G:436:ALA:O	2.07	0.54
2:I:698:LEU:HB2	2:I:706:TYR:HE2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1331:ALA:HB2	2:L:407:TYR:HB2	1.89	0.54
2:M:315:ALA:HB2	2:M:321:ILE:HD11	1.89	0.54
2:M:535:PRO:HB3	2:M:1232:TRP:CZ2	2.42	0.54
2:P:43:PRO:O	2:P:45:ARG:N	2.40	0.54
2:P:556:ILE:O	2:P:1015:ILE:N	2.33	0.54
2:B:448:THR:HG23	2:B:1113:LEU:HD13	1.89	0.54
2:C:1037:VAL:HG23	2:C:1172:CYS:HB3	1.89	0.54
2:C:529:LEU:O	2:C:1235:GLN:NE2	2.40	0.54
2:E:1032:PHE:HA	2:E:1178:PRO:HD3	1.88	0.54
2:G:941:ARG:NH1	2:G:988:ARG:O	2.40	0.54
2:O:558:ILE:HA	2:O:1015:ILE:HD11	1.89	0.54
2:A:1224:THR:HG22	2:A:1226:ALA:H	1.70	0.54
2:C:1132:ARG:HH22	2:C:1140:PRO:HD3	1.71	0.54
2:C:25:THR:O	2:C:29:GLU:HG2	2.08	0.54
2:D:793:THR:HG21	2:D:797:ALA:HB2	1.88	0.54
2:E:686:ARG:HA	2:E:690:LEU:HD22	1.90	0.54
2:F:884:GLN:O	3:V:66:ARG:NH2	2.41	0.54
2:G:311:ASN:ND2	2:G:322:LEU:O	2.40	0.54
2:L:845:SER:HB2	2:L:848:ALA:HB3	1.89	0.54
2:M:78:ILE:HD13	2:M:347:ALA:HB3	1.89	0.54
2:P:854:GLY:O	2:P:858:THR:OG1	2.23	0.54
2:B:1193:ARG:NH2	2:B:1234:SER:O	2.41	0.54
2:B:202:LEU:O	2:B:205:GLN:HG2	2.07	0.54
2:D:556:ILE:O	2:D:1015:ILE:HG13	2.06	0.54
2:D:63:TRP:HH2	2:D:165:LYS:HB3	1.71	0.54
2:D:800:LEU:HA	2:D:937:VAL:HG12	1.90	0.54
2:E:1331:ALA:HB2	2:F:407:TYR:HB2	1.89	0.54
2:E:809:VAL:O	2:E:813:TYR:HB2	2.08	0.54
2:F:342:ASP:HB2	2:F:345:SER:HB3	1.90	0.54
2:I:434:ASP:HA	2:I:1367:LEU:HD13	1.90	0.54
2:J:450:CYS:O	2:J:1122:TYR:OH	2.24	0.54
2:K:1336:LYS:HE3	2:K:1355:VAL:HG11	1.89	0.54
2:K:941:ARG:NH1	2:K:992:SER:OG	2.38	0.54
2:L:1196:ALA:HB3	2:L:1222:ALA:HB3	1.89	0.54
2:L:211:GLN:O	2:L:215:ILE:HG12	2.07	0.54
2:M:805:LYS:H	2:M:889:HIS:HE1	1.54	0.54
1:9:124:ILE:HD13	1:9:127:ARG:HH21	1.72	0.54
2:C:1191:ASN:HD21	2:C:1319:GLN:HB3	1.72	0.54
2:C:311:ASN:HB3	2:C:321:ILE:HD12	1.88	0.54
2:D:424:LEU:HD11	2:D:573:LEU:HD13	1.90	0.54
2:E:1224:THR:HG22	2:E:1226:ALA:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:809:VAL:HG21	3:V:58:CYS:HB3	1.90	0.54
2:H:1150:MET:HA	2:H:1154:GLY:HA2	1.89	0.54
2:I:102:SER:HB3	2:I:108:THR:HG22	1.88	0.54
2:J:435:ARG:H	2:J:1367:LEU:HD11	1.72	0.54
2:J:432:ASN:OD1	2:J:438:GLN:NE2	2.41	0.54
2:J:816:ALA:HB2	2:J:852:ALA:HB1	1.90	0.54
2:L:62:GLU:OE2	2:L:173:ARG:NH1	2.40	0.54
2:L:318:TYR:CE2	2:L:320:SER:HB3	2.42	0.54
2:N:440:ILE:HB	2:N:1108:VAL:HG11	1.89	0.54
2:O:1313:ASN:HB3	2:O:1316:ARG:HG2	1.89	0.54
2:O:318:TYR:CE2	2:O:320:SER:HB3	2.43	0.54
2:O:512:MET:CE	2:O:527:ILE:HD11	2.38	0.54
2:P:657:ILE:HG23	2:P:661:LEU:HD22	1.89	0.54
2:P:898:PRO:HB2	2:P:904:ARG:HH12	1.73	0.54
1:O:49:ARG:HH21	1:O:241:MET:HB2	1.73	0.54
2:C:192:VAL:HG11	2:C:1282:ILE:HD12	1.90	0.54
2:D:532:GLU:OE2	2:D:555:ARG:NH1	2.40	0.54
2:E:1245:ASN:OD1	2:E:1266:PHE:HB3	2.07	0.54
2:H:443:VAL:HA	2:H:446:LEU:HD13	1.89	0.54
2:I:263:THR:HB	2:I:267:ALA:HB3	1.89	0.54
2:I:1161:ALA:HB3	2:J:209:ARG:NH2	2.22	0.54
2:L:747:ARG:HA	2:L:767:PHE:HD2	1.72	0.54
2:L:556:ILE:HG21	2:L:986:TRP:HZ3	1.73	0.54
2:M:207:LEU:HD13	2:M:212:ARG:HB3	1.89	0.54
2:M:263:THR:HB	2:M:267:ALA:HB3	1.88	0.54
1:5:105:HIS:O	1:5:131:SER:OG	2.23	0.54
2:A:1293:ILE:HG23	2:A:1294:ARG:HG3	1.90	0.54
2:A:718:PRO:HB3	2:A:939:PHE:HE2	1.72	0.54
2:A:927:PRO:HB2	2:A:930:LEU:HB2	1.90	0.54
2:B:472:GLU:OE1	2:B:1218:ARG:NH1	2.41	0.54
2:C:269:ILE:HG22	2:C:271:GLY:H	1.73	0.54
2:C:536:PHE:HZ	2:C:1032:PHE:HZ	1.54	0.54
2:C:554:PRO:O	2:C:988:ARG:NH2	2.40	0.54
2:D:1037:VAL:HG23	2:D:1172:CYS:HB3	1.89	0.54
2:E:169:ASP:OD2	2:E:173:ARG:NH2	2.41	0.54
2:G:207:LEU:HD13	2:G:212:ARG:HB3	1.90	0.54
2:I:605:ASN:HB3	2:I:642:ARG:HE	1.73	0.54
2:J:1190:ASN:OD1	2:J:1191:ASN:N	2.37	0.54
2:K:583:ARG:HH22	2:L:999:PRO:HD3	1.73	0.54
2:L:6:ALA:HB2	2:M:317:SER:HA	1.89	0.54
2:N:188:PRO:HA	2:N:1286:LEU:HD21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:695:ASN:H	2:P:703:LEU:HD23	1.70	0.54
2:A:1064:VAL:HG22	2:A:1077:VAL:HG12	1.90	0.54
2:B:801:GLY:HA3	2:B:890:VAL:HG11	1.90	0.54
2:D:573:LEU:HA	2:D:576:TRP:HD1	1.72	0.54
2:G:608:GLU:HG2	2:G:927:PRO:HA	1.89	0.54
2:I:1040:ASP:HA	2:I:1104:THR:HG21	1.90	0.54
2:I:377:LYS:NZ	2:I:378:ASN:OD1	2.39	0.54
2:K:970:ASP:HA	2:K:996:ALA:HB2	1.90	0.54
2:M:1109:ARG:HH22	2:M:1169:LYS:HE3	1.72	0.54
2:M:968:ARG:HG2	2:M:970:ASP:H	1.71	0.54
2:N:495:ILE:HG23	2:N:496:PRO:HD3	1.90	0.54
2:O:936:PRO:HD3	2:O:952:LEU:HB3	1.90	0.54
2:P:698:LEU:HB2	2:P:706:TYR:HE2	1.72	0.54
2:A:705:ALA:HB1	2:A:712:ASP:HB3	1.90	0.54
2:A:888:GLU:HG2	2:A:889:HIS:H	1.73	0.54
2:C:800:LEU:HA	2:C:937:VAL:HG12	1.90	0.54
2:F:1143:LEU:HB2	2:F:1146:GLU:HG2	1.89	0.54
2:H:1217:HIS:ND1	2:H:1228:THR:OG1	2.41	0.54
2:H:311:ASN:HB3	2:H:321:ILE:HD12	1.88	0.54
2:H:606:TYR:HB3	2:H:925:THR:HG21	1.87	0.54
2:I:1145:THR:HG22	2:I:1148:ILE:HG12	1.88	0.54
2:N:1196:ALA:HB3	2:N:1222:ALA:HB3	1.89	0.54
2:N:431:LEU:HD23	2:N:436:ALA:O	2.07	0.54
2:O:606:TYR:HH	2:O:610:CYS:HG	1.56	0.54
2:P:66:PHE:HA	2:P:176:ILE:HD11	1.90	0.54
2:A:49:HIS:HB2	2:G:57:PHE:CE2	2.43	0.54
2:B:1224:THR:HG22	2:B:1226:ALA:H	1.73	0.54
2:B:515:ASP:HA	2:B:993:ARG:HH22	1.73	0.54
2:F:268:LYS:O	2:F:366:THR:OG1	2.25	0.54
2:G:78:ILE:HB	2:G:1058:ILE:HG22	1.89	0.54
2:H:421:ARG:NH1	2:H:1027:HIS:O	2.38	0.54
2:J:392:THR:HA	2:J:1039:THR:HA	1.88	0.54
2:H:209:ARG:HH22	2:M:1298:ASP:N	2.06	0.54
2:N:475:MET:SD	2:N:1218:ARG:NH2	2.81	0.54
2:A:732:VAL:HA	2:A:895:VAL:HG22	1.89	0.53
2:A:756:ARG:HG3	2:A:767:PHE:CE2	2.43	0.53
2:B:691:PRO:O	2:C:968:ARG:NH2	2.41	0.53
2:C:1298:ASP:HB2	2:D:209:ARG:HH22	1.73	0.53
2:D:513:LYS:NZ	2:D:532:GLU:OE2	2.40	0.53
2:G:1110:VAL:HA	2:G:1171:ALA:HB3	1.91	0.53
2:G:1245:ASN:O	2:G:1249:ARG:N	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:232:ARG:HH21	2:G:1361:PRO:HD2	1.71	0.53
2:G:228:PHE:HB3	2:G:231:ASN:HB3	1.91	0.53
2:I:760:MET:HB3	2:I:889:HIS:CD2	2.42	0.53
2:K:130:GLU:HB3	2:K:1074:THR:HG22	1.89	0.53
2:K:341:ASN:OD1	2:K:342:ASP:N	2.40	0.53
2:K:534:HIS:HD2	2:K:537:PHE:HD1	1.55	0.53
2:L:1195:ARG:NH1	2:L:1227:ALA:O	2.41	0.53
2:O:125:ILE:HG22	2:P:103:GLY:HA2	1.89	0.53
1:5:166:ARG:HH11	1:5:186:LEU:HD21	1.73	0.53
2:A:905:GLN:HE22	2:A:1122:TYR:HA	1.72	0.53
2:B:1336:LYS:NZ	2:B:1346:THR:OG1	2.41	0.53
2:D:145:GLY:HA2	2:D:150:LYS:HE3	1.90	0.53
2:I:805:LYS:H	2:I:889:HIS:HE1	1.56	0.53
2:K:710:LEU:HB2	2:K:1012:LEU:HD23	1.91	0.53
2:O:760:MET:HB3	2:O:889:HIS:HD2	1.72	0.53
2:A:1208:GLU:O	2:A:1210:ALA:N	2.41	0.53
2:B:557:VAL:HG11	2:B:1012:LEU:HD12	1.91	0.53
2:D:1033:ALA:O	2:D:1176:LEU:N	2.41	0.53
2:D:395:PHE:CZ	2:D:430:LEU:HD11	2.44	0.53
2:D:701:GLU:HG3	2:D:714:ARG:HH12	1.73	0.53
2:D:611:TYR:CZ	2:D:923:VAL:HG13	2.43	0.53
2:E:693:LEU:HB3	2:E:1022:LEU:HD11	1.90	0.53
2:F:941:ARG:HB3	2:F:992:SER:HB3	1.90	0.53
2:G:698:LEU:HD11	2:G:1127:VAL:HA	1.89	0.53
2:I:106:LEU:HD12	2:I:107:PRO:HD2	1.90	0.53
2:L:21:THR:O	2:L:25:THR:HB	2.07	0.53
2:O:557:VAL:HG11	2:O:1012:LEU:HD12	1.91	0.53
2:O:227:LEU:HD21	2:O:391:LEU:HD21	1.88	0.53
1:9:140:VAL:HG21	1:9:158:HIS:NE2	2.24	0.53
2:B:524:VAL:HA	2:B:1227:ALA:HB2	1.90	0.53
2:C:130:GLU:HB3	2:C:1074:THR:HG22	1.89	0.53
2:C:438:GLN:HG2	2:C:1108:VAL:HG21	1.91	0.53
2:C:79:LYS:N	2:C:303:GLY:O	2.35	0.53
2:C:414:VAL:HG12	2:D:409:THR:HA	1.90	0.53
2:E:1232:TRP:O	2:E:1240:SER:OG	2.25	0.53
2:E:312:ALA:O	2:E:316:ILE:HG12	2.09	0.53
2:F:433:ARG:HH11	2:F:1166:HIS:HA	1.73	0.53
2:G:600:THR:HB	2:G:644:LEU:HB2	1.90	0.53
2:G:747:ARG:NH2	2:G:918:TYR:OH	2.42	0.53
2:J:1214:ILE:HG21	2:J:1272:ILE:HD11	1.89	0.53
2:M:657:ILE:HD12	2:M:661:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1165:VAL:HG11	2:P:1223:GLN:H	1.73	0.53
2:P:1230:ASN:HB3	2:P:1233:ALA:HB3	1.91	0.53
2:A:1070:ASP:H	2:A:1073:THR:HG22	1.73	0.53
2:A:1365:SER:O	2:A:1369:ASN:N	2.29	0.53
2:B:1195:ARG:NH2	2:B:1219:GLU:O	2.37	0.53
2:B:698:LEU:O	2:B:700:GLU:N	2.42	0.53
2:C:8:GLU:OE1	2:C:45:ARG:HB3	2.08	0.53
2:C:940:HIS:HD2	2:C:942:PHE:HB2	1.73	0.53
2:D:1122:TYR:HB2	2:D:1128:ASP:HB2	1.90	0.53
2:E:1327:THR:HG22	2:E:1355:VAL:HG22	1.89	0.53
2:E:936:PRO:HB3	2:E:952:LEU:HD22	1.90	0.53
2:F:219:PHE:HB3	2:F:223:MET:HE2	1.90	0.53
2:H:1069:ARG:HB2	2:H:1072:SER:O	2.08	0.53
2:I:416:LEU:HD12	2:I:1350:HIS:HD2	1.73	0.53
2:J:1064:VAL:HG22	2:J:1077:VAL:HG12	1.90	0.53
2:L:1245:ASN:ND2	2:L:1268:THR:OG1	2.42	0.53
2:L:478:LEU:HD13	2:L:512:MET:SD	2.48	0.53
2:L:798:CYS:HB3	2:L:948:ILE:HG21	1.91	0.53
2:N:133:ALA:HB2	2:N:1071:ILE:HA	1.89	0.53
2:N:941:ARG:NH1	2:N:982:GLU:HG3	2.21	0.53
1:3:190:ARG:HG3	1:3:191:HIS:H	1.74	0.53
2:A:798:CYS:HA	2:A:943:TYR:HA	1.89	0.53
2:B:3:ASN:ND2	2:C:317:SER:O	2.42	0.53
2:D:698:LEU:O	2:D:700:GLU:N	2.42	0.53
2:G:57:PHE:HB3	2:G:162:ARG:HH12	1.74	0.53
2:H:1190:ASN:OD1	2:H:1191:ASN:N	2.42	0.53
2:J:1247:ARG:HG3	2:J:1269:GLU:HG3	1.90	0.53
2:K:723:LEU:HG	2:K:768:VAL:HG21	1.89	0.53
2:L:1295:GLY:O	2:M:210:ILE:HD12	2.09	0.53
2:M:801:GLY:HA3	2:M:890:VAL:HG11	1.91	0.53
2:N:733:VAL:HG12	2:N:738:PRO:HA	1.91	0.53
2:P:1255:ASN:HD22	2:P:1258:PHE:HE2	1.55	0.53
2:P:264:SER:OG	2:P:294:GLU:OE2	2.20	0.53
2:P:556:ILE:HG21	2:P:986:TRP:CZ3	2.44	0.53
2:A:488:MET:HG2	2:A:978:ALA:HB1	1.91	0.53
2:B:1217:HIS:ND1	2:B:1228:THR:OG1	2.41	0.53
2:D:36:ARG:NE	2:N:114:ILE:HG12	2.23	0.53
2:D:970:ASP:N	2:D:970:ASP:OD1	2.42	0.53
2:E:1158:GLU:HG3	2:E:1299:THR:HG21	1.91	0.53
2:F:651:TYR:HB2	2:F:784:PHE:CG	2.44	0.53
2:G:1215:TYR:CE1	2:G:1236:ALA:HB2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:688:SER:HB3	2:H:708:ASN:HD22	1.74	0.53
2:L:478:LEU:HD11	2:L:509:VAL:HG13	1.91	0.53
2:N:748:HIS:O	2:N:756:ARG:NH1	2.39	0.53
1:5:107:ALA:HB1	1:5:111:ARG:HH12	1.74	0.53
2:A:495:ILE:HG23	2:A:496:PRO:HD3	1.90	0.53
2:B:558:ILE:N	2:B:1013:TYR:O	2.35	0.53
2:B:1182:ASP:HA	2:B:1186:PHE:HD2	1.74	0.53
2:D:430:LEU:HB2	2:D:438:GLN:HB3	1.91	0.53
2:D:431:LEU:HA	2:D:436:ALA:O	2.08	0.53
2:D:66:PHE:HA	2:D:176:ILE:HD11	1.89	0.53
2:G:558:ILE:HD13	2:G:1015:ILE:HG22	1.90	0.53
2:I:1244:TYR:HA	2:I:1249:ARG:HH21	1.73	0.53
2:J:647:PHE:HD1	2:J:653:LEU:HD13	1.73	0.53
2:L:556:ILE:HG21	2:L:986:TRP:CZ3	2.43	0.53
2:M:693:LEU:HD11	2:M:1026:ALA:HB2	1.90	0.53
2:M:601:VAL:HG23	2:M:924:VAL:HG21	1.89	0.53
2:B:455:HIS:NE2	2:B:1017:PRO:HG3	2.24	0.53
2:B:211:GLN:O	2:B:215:ILE:HG12	2.08	0.53
2:D:433:ARG:NH1	2:D:1166:HIS:O	2.42	0.53
2:D:59:ASN:HB2	2:E:95:VAL:HA	1.89	0.53
2:F:481:CYS:HB3	2:F:542:CYS:HA	1.90	0.53
2:H:59:ASN:HD22	2:I:96:GLN:H	1.57	0.53
2:H:733:VAL:HG12	2:H:738:PRO:HA	1.91	0.53
2:J:419:THR:HG21	2:K:404:ASP:HA	1.90	0.53
2:M:62:GLU:OE2	2:M:173:ARG:NH1	2.42	0.53
2:M:688:SER:HB3	2:M:708:ASN:ND2	2.23	0.53
2:O:695:ASN:H	2:O:703:LEU:HD23	1.74	0.53
2:P:315:ALA:HB2	2:P:321:ILE:HD11	1.90	0.53
2:B:295:THR:HA	2:B:356:SER:HA	1.89	0.53
2:B:669:GLN:O	2:B:673:HIS:ND1	2.42	0.53
2:D:554:PRO:HD3	2:D:907:LEU:HD12	1.91	0.53
2:D:437:VAL:N	2:E:1184:ASN:OD1	2.42	0.53
2:E:487:PRO:O	2:E:494:ARG:NH2	2.42	0.53
2:F:747:ARG:HE	2:F:767:PHE:HB3	1.74	0.53
2:G:1159:ARG:HH12	2:G:1169:LYS:HZ1	1.56	0.53
2:G:4:TRP:HE1	2:G:9:LEU:HD11	1.74	0.53
2:H:71:LEU:HD22	2:H:372:LEU:HD11	1.91	0.53
2:J:196:LEU:O	2:J:200:ALA:HB2	2.09	0.53
2:L:495:ILE:HG23	2:L:496:PRO:HD3	1.90	0.53
2:L:760:MET:HB3	2:L:889:HIS:CD2	2.44	0.53
2:N:705:ALA:HB1	2:N:712:ASP:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:63:TRP:HH2	2:O:165:LYS:HD2	1.74	0.53
2:D:419:THR:HB	2:D:422:ASN:HD22	1.74	0.52
2:G:631:VAL:HG13	2:G:661:LEU:HD22	1.91	0.52
2:I:756:ARG:HH21	3:Y:66:ARG:HH12	1.57	0.52
2:L:432:ASN:OD1	2:L:438:GLN:NE2	2.42	0.52
1:O:167:ILE:HD12	1:O:188:LEU:HD21	1.90	0.52
2:B:93:PHE:HB2	2:B:116:VAL:HB	1.90	0.52
2:D:1315:CYS:O	2:D:1319:GLN:N	2.40	0.52
2:F:1037:VAL:HG21	2:F:1262:CYS:HB2	1.90	0.52
2:F:1293:ILE:HG22	2:F:1311:ILE:HD13	1.91	0.52
2:A:1064:VAL:HB	2:G:12:LYS:HG2	1.90	0.52
2:I:251:THR:HG21	2:I:1089:GLY:HA3	1.91	0.52
2:J:556:ILE:HG21	2:J:986:TRP:HZ3	1.73	0.52
2:M:291:ILE:HA	2:M:360:ILE:HG22	1.90	0.52
2:M:760:MET:HB3	2:M:889:HIS:CD2	2.41	0.52
3:S:26:LEU:HB3	3:S:28:LEU:HG	1.89	0.52
1:7:235:LEU:HD23	1:7:254:LEU:HD21	1.91	0.52
1:9:172:GLU:OE2	1:9:175:ARG:NH2	2.42	0.52
2:A:71:LEU:HD13	2:A:274:VAL:HG21	1.92	0.52
2:B:1214:ILE:HG23	2:B:1215:TYR:H	1.74	0.52
2:B:63:TRP:CH2	2:B:165:LYS:HB3	2.43	0.52
2:C:1362:LEU:O	2:C:1366:MET:N	2.42	0.52
2:C:970:ASP:OD1	2:C:971:GLY:N	2.41	0.52
2:E:1122:TYR:HB2	2:E:1128:ASP:HB2	1.90	0.52
2:G:797:ALA:HA	2:G:924:VAL:HG22	1.91	0.52
2:H:212:ARG:HH22	2:H:1204:PRO:HD3	1.74	0.52
2:K:559:GLY:HA3	2:K:1011:MET:HB3	1.90	0.52
2:M:1004:SER:HA	2:M:1007:THR:HG22	1.91	0.52
2:N:452:PRO:HG3	2:N:1122:TYR:CE1	2.44	0.52
3:T:22:VAL:HG13	3:T:28:LEU:HD12	1.90	0.52
3:W:29:PRO:HG2	3:W:32:ILE:HG12	1.91	0.52
2:A:514:GLN:HE22	2:A:563:ASP:H	1.56	0.52
2:B:394:PHE:HB3	2:B:1037:VAL:HG12	1.90	0.52
2:B:59:ASN:HD22	2:C:95:VAL:HG13	1.74	0.52
2:D:540:THR:HG21	2:D:983:TYR:CE2	2.45	0.52
2:E:435:ARG:HG3	2:E:1367:LEU:HD21	1.91	0.52
2:G:630:PHE:HD1	2:G:633:ARG:HH21	1.56	0.52
2:I:527:ILE:HG22	2:I:1218:ARG:HH12	1.75	0.52
2:J:258:PRO:O	2:J:262:THR:OG1	2.27	0.52
2:J:853:VAL:HB	2:J:857:LEU:HD23	1.91	0.52
2:N:1195:ARG:NH1	2:N:1227:ALA:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1165:VAL:HG23	2:O:216:LEU:HD23	1.92	0.52
2:O:628:ARG:HA	2:O:631:VAL:HG12	1.91	0.52
2:P:558:ILE:HA	2:P:1015:ILE:HD11	1.92	0.52
2:P:188:PRO:HA	2:P:1286:LEU:HD21	1.91	0.52
3:R:37:HIS:CD2	3:R:39:VAL:HG12	2.44	0.52
3:W:18:HIS:CE1	3:W:44:LEU:HB3	2.44	0.52
2:A:441:ASP:OD1	2:A:442:PHE:N	2.42	0.52
2:A:44:GLU:O	2:A:46:TYR:N	2.39	0.52
2:C:251:THR:HG21	2:C:1089:GLY:HA3	1.92	0.52
2:D:1240:SER:HB2	2:D:1266:PHE:CE2	2.45	0.52
2:E:461:LEU:HD13	2:E:552:CYS:HB2	1.92	0.52
2:E:703:LEU:HA	2:E:706:TYR:HD2	1.75	0.52
2:I:64:VAL:HG11	2:I:375:VAL:HG12	1.92	0.52
2:J:210:ILE:O	2:J:213:SER:OG	2.24	0.52
2:L:450:CYS:O	2:L:1122:TYR:OH	2.28	0.52
2:L:888:GLU:O	2:L:919:ASN:ND2	2.42	0.52
2:O:1193:ARG:NH2	2:O:1195:ARG:O	2.42	0.52
2:O:493:ARG:HH11	2:O:935:LEU:HD11	1.74	0.52
1:4:256:HIS:CE1	2:H:748:HIS:HA	2.44	0.52
1:8:124:ILE:HD13	1:8:127:ARG:HH21	1.75	0.52
1:8:66:LEU:HB3	1:8:217:TRP:CH2	2.45	0.52
2:A:1182:ASP:HB3	2:A:1186:PHE:CE2	2.44	0.52
2:A:1217:HIS:CE1	2:A:1235:GLN:HE22	2.27	0.52
2:A:846:ILE:HA	2:A:849:GLN:HG2	1.92	0.52
2:C:118:LYS:HD3	2:C:1085:ASP:O	2.09	0.52
2:C:486:GLU:HB3	2:C:978:ALA:HB2	1.92	0.52
2:D:1166:HIS:HE1	2:E:1223:GLN:HA	1.75	0.52
2:E:1043:GLU:OE2	2:E:1103:ARG:NH2	2.42	0.52
2:H:1250:GLU:HA	2:H:1254:TYR:HE1	1.74	0.52
2:I:1041:THR:N	2:I:1104:THR:OG1	2.41	0.52
2:I:946:PRO:HG3	2:I:973:PHE:HD1	1.75	0.52
2:J:1341:ALA:HA	2:J:1364:GLN:NE2	2.25	0.52
2:J:445:ALA:HA	2:J:1110:VAL:HG21	1.89	0.52
2:L:92:LEU:HD23	2:N:7:LEU:HB2	1.92	0.52
2:N:1268:THR:HA	2:N:1271:ILE:HG22	1.92	0.52
2:N:494:ARG:HA	2:N:497:HIS:HD2	1.74	0.52
2:O:1214:ILE:HG21	2:O:1272:ILE:HD11	1.92	0.52
2:P:211:GLN:O	2:P:215:ILE:HG12	2.10	0.52
1:1:23:LEU:HD11	1:1:29:VAL:HG13	1.92	0.52
2:A:1029:HIS:ND1	2:A:1030:PRO:O	2.43	0.52
2:B:64:VAL:HG21	2:B:173:ARG:HE	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1276:LYS:HB2	2:C:1281:THR:HB	1.90	0.52
2:D:707:VAL:HA	2:D:1019:SER:HB2	1.91	0.52
2:D:120:SER:HB3	2:D:1084:VAL:HG12	1.92	0.52
2:E:940:HIS:CD2	2:E:942:PHE:H	2.28	0.52
2:F:409:THR:HG23	2:F:410:VAL:HG23	1.92	0.52
2:P:212:ARG:NH2	2:P:1202:VAL:O	2.43	0.52
2:P:1327:THR:HG22	2:P:1355:VAL:HG22	1.91	0.52
2:P:495:ILE:HG23	2:P:496:PRO:HD3	1.92	0.52
1:3:129:LEU:HD13	1:3:154:ILE:HG21	1.92	0.52
1:7:206:THR:O	1:7:210:ILE:HG12	2.10	0.52
2:D:1021:VAL:HG11	2:D:1134:ALA:HB1	1.91	0.52
2:F:998:CYS:SG	2:F:1004:SER:OG	2.67	0.52
2:G:64:VAL:HG11	2:G:375:VAL:HG12	1.92	0.52
2:H:388:ASN:HB2	2:H:1041:THR:HG23	1.92	0.52
2:I:688:SER:HB3	2:I:708:ASN:ND2	2.25	0.52
2:M:1035:THR:HG21	2:M:1176:LEU:HD12	1.91	0.52
1:1:125:VAL:HG21	1:1:210:ILE:HD13	1.92	0.52
1:6:172:GLU:OE2	1:6:175:ARG:NH2	2.43	0.52
2:A:475:MET:CG	2:A:478:LEU:HD21	2.39	0.52
2:C:22:HIS:CG	2:C:23:VAL:H	2.27	0.52
2:E:1285:TYR:HA	2:E:1289:ALA:HB3	1.92	0.52
2:F:1365:SER:O	2:F:1369:ASN:N	2.42	0.52
2:F:295:THR:HA	2:F:356:SER:HA	1.92	0.52
2:F:394:PHE:HB3	2:F:1037:VAL:HG12	1.91	0.52
2:I:154:VAL:O	2:I:158:HIS:ND1	2.43	0.52
2:J:1066:LYS:HG3	2:J:1075:TYR:HE1	1.75	0.52
2:K:1214:ILE:HG23	2:K:1215:TYR:CD2	2.45	0.52
2:D:1279:PHE:HD2	2:L:31:MET:HB2	1.74	0.52
2:L:601:VAL:HG21	2:L:793:THR:HG22	1.92	0.52
2:N:534:HIS:HD2	2:N:537:PHE:HD2	1.58	0.52
2:O:1250:GLU:HA	2:O:1254:TYR:HE1	1.74	0.52
3:T:25:VAL:HA	3:T:57:LYS:HD2	1.91	0.52
2:A:1177:THR:OG1	2:A:1180:THR:OG1	2.27	0.52
2:A:274:VAL:HG12	2:A:385:LEU:HD11	1.91	0.52
2:B:761:ASP:OD1	2:B:889:HIS:ND1	2.35	0.52
2:C:1054:CYS:SG	2:C:1055:THR:N	2.82	0.52
2:E:491:ALA:HA	2:E:494:ARG:HB2	1.92	0.52
2:G:998:CYS:SG	2:G:1004:SER:OG	2.50	0.52
2:G:1329:THR:HG22	2:G:1331:ALA:H	1.74	0.52
2:H:1214:ILE:HD13	2:H:1268:THR:HG23	1.92	0.52
2:H:380:ASP:O	2:I:204:ARG:HD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1322:LEU:HD22	2:J:1359:ILE:HG21	1.92	0.52
2:K:1060:ASN:O	2:K:1079:GLN:NE2	2.37	0.52
2:N:554:PRO:O	2:N:988:ARG:NH2	2.39	0.52
2:P:475:MET:SD	2:P:1218:ARG:NH2	2.82	0.52
1:3:193:ASN:HB2	1:3:198:ASN:HD21	1.75	0.51
2:A:430:LEU:HB2	2:A:438:GLN:HB3	1.91	0.51
2:A:633:ARG:HH22	2:A:878:GLU:HG3	1.75	0.51
2:B:555:ARG:NH1	2:B:560:ASN:O	2.43	0.51
2:C:202:LEU:HD12	2:C:203:ALA:HB2	1.93	0.51
2:D:747:ARG:HB2	2:D:767:PHE:HB3	1.93	0.51
2:F:609:LEU:HB2	2:F:860:LEU:HB3	1.92	0.51
2:I:947:THR:HG23	2:I:969:HIS:HE1	1.75	0.51
2:J:513:LYS:NZ	2:J:532:GLU:OE2	2.39	0.51
2:K:457:PRO:HD3	2:K:537:PHE:CZ	2.45	0.51
2:K:642:ARG:HD3	2:K:644:LEU:HD21	1.91	0.51
2:N:1244:TYR:HB2	2:N:1266:PHE:HD2	1.75	0.51
2:P:1058:ILE:HD11	2:P:1082:ASN:HB2	1.92	0.51
2:A:153:ASN:O	2:A:157:MET:HG2	2.09	0.51
2:A:983:TYR:HA	2:A:988:ARG:HH12	1.75	0.51
2:E:654:VAL:HG23	2:E:674:TYR:HD1	1.75	0.51
2:F:374:ARG:HG3	2:F:375:VAL:HG13	1.93	0.51
2:G:417:ASN:OD1	2:G:422:ASN:ND2	2.43	0.51
2:I:482:ARG:HH12	2:I:545:ASN:HA	1.76	0.51
2:I:931:ILE:HD11	2:I:952:LEU:HA	1.91	0.51
2:K:801:GLY:HA3	2:K:890:VAL:HG11	1.92	0.51
2:N:1162:ALA:HB3	2:O:1213:ALA:HB2	1.92	0.51
2:P:180:LEU:HD23	2:P:384:PRO:HG2	1.92	0.51
2:P:805:LYS:H	2:P:889:HIS:CE1	2.26	0.51
2:P:931:ILE:HD11	2:P:952:LEU:HA	1.93	0.51
1:1:20:LEU:HD22	1:1:65:GLU:HG3	1.92	0.51
1:3:190:ARG:O	1:3:192:ALA:N	2.40	0.51
2:A:250:ALA:HB2	2:A:1049:TYR:HE2	1.75	0.51
2:B:199:ASN:HD21	2:B:215:ILE:HD11	1.76	0.51
2:C:37:ILE:HG22	2:M:114:ILE:HA	1.90	0.51
2:C:653:LEU:O	2:C:657:ILE:HG12	2.09	0.51
2:D:1313:ASN:HB3	2:D:1316:ARG:HG2	1.93	0.51
2:D:733:VAL:HG12	2:D:738:PRO:HA	1.92	0.51
2:E:1264:GLN:OE1	2:E:1313:ASN:ND2	2.44	0.51
2:E:209:ARG:O	2:E:212:ARG:HG2	2.11	0.51
2:E:534:HIS:NE2	2:E:536:PHE:HB2	2.26	0.51
2:E:415:LYS:HB3	2:F:408:THR:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:981:HIS:HB3	2:F:984:HIS:HB2	1.93	0.51
2:G:1115:ARG:NH1	2:G:1139:ARG:HD3	2.26	0.51
2:G:186:LYS:HE3	2:G:1055:THR:HB	1.92	0.51
2:G:315:ALA:HB2	2:G:321:ILE:HD11	1.92	0.51
2:H:808:LEU:HD23	2:H:883:VAL:HG13	1.92	0.51
2:L:116:VAL:HG12	2:N:35:LEU:HB3	1.92	0.51
2:N:420:VAL:HG21	2:N:576:TRP:HB3	1.92	0.51
2:N:760:MET:HB3	2:N:889:HIS:CD2	2.46	0.51
2:O:1038:ARG:NH1	2:O:1107:GLY:O	2.41	0.51
2:P:983:TYR:O	2:P:988:ARG:NH2	2.42	0.51
2:A:1060:ASN:OD1	2:A:1061:ASN:N	2.43	0.51
2:A:478:LEU:CD2	2:A:527:ILE:CD1	2.89	0.51
2:A:747:ARG:HG3	2:A:767:PHE:HB3	1.92	0.51
2:B:1177:THR:HG1	2:B:1180:THR:HG1	1.56	0.51
2:B:657:ILE:HG13	2:B:661:LEU:HD22	1.92	0.51
2:B:822:ALA:HB3	3:R:72:ARG:HD2	1.91	0.51
2:D:1035:THR:HG22	2:D:1186:PHE:HE1	1.75	0.51
2:D:915:HIS:NE2	2:D:978:ALA:O	2.43	0.51
2:H:693:LEU:HD11	2:H:1026:ALA:HB2	1.91	0.51
2:J:913:ARG:H	2:J:984:HIS:HB3	1.75	0.51
2:M:139:LEU:HD22	2:M:160:VAL:HG21	1.92	0.51
2:N:130:GLU:HB3	2:N:1074:THR:HG22	1.93	0.51
2:O:1018:VAL:HG12	2:O:1131:ILE:HD11	1.92	0.51
2:O:1215:TYR:OH	2:O:1268:THR:OG1	2.23	0.51
2:O:914:GLN:HE22	2:O:985:ASN:HA	1.76	0.51
1:O:245:PHE:HB2	3:T:71:SER:HA	1.92	0.51
2:A:1224:THR:HG21	2:A:1229:HIS:CE1	2.46	0.51
2:A:976:PRO:O	2:A:980:ALA:N	2.44	0.51
2:B:1050:SER:HA	2:B:1092:SER:HA	1.93	0.51
2:B:253:SER:OG	2:B:256:ASP:OD1	2.29	0.51
2:C:396:PRO:HB3	2:C:1186:PHE:CZ	2.46	0.51
2:E:1241:ASP:OD2	2:E:1245:ASN:ND2	2.44	0.51
2:H:1205:TYR:HE2	2:H:1277:THR:HG23	1.74	0.51
2:H:450:CYS:O	2:H:1122:TYR:OH	2.29	0.51
2:I:606:TYR:OH	2:I:610:CYS:SG	2.57	0.51
2:K:1132:ARG:HH22	2:K:1140:PRO:HD2	1.73	0.51
2:P:1018:VAL:HG12	2:P:1131:ILE:HD11	1.93	0.51
2:B:346:GLN:HA	2:B:350:HIS:HB3	1.93	0.51
2:B:892:VAL:HG11	2:B:979:PHE:HE1	1.75	0.51
2:C:435:ARG:HG2	2:C:1367:LEU:HD13	1.93	0.51
2:C:7:LEU:HD22	2:M:92:LEU:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:29:GLU:HA	2:N:1277:THR:HB	1.93	0.51
2:E:1037:VAL:HG23	2:E:1261:PRO:HG2	1.92	0.51
2:E:1100:ASN:OD1	2:E:1101:ARG:N	2.43	0.51
2:E:207:LEU:HD13	2:E:212:ARG:HB3	1.93	0.51
2:G:273:MET:HG3	2:G:367:VAL:HG11	1.91	0.51
2:J:416:LEU:HD13	2:J:422:ASN:HB3	1.92	0.51
2:J:494:ARG:HA	2:J:497:HIS:HD2	1.75	0.51
2:K:1168:GLN:HG3	2:L:210:ILE:HD11	1.91	0.51
2:H:213:SER:OG	2:M:1164:THR:O	2.24	0.51
2:A:228:PHE:HE1	2:A:1044:VAL:HG22	1.76	0.51
2:A:430:LEU:HD12	2:A:1108:VAL:HG21	1.92	0.51
2:A:339:LEU:H	2:A:340:PRO:HD2	1.76	0.51
2:A:888:GLU:HG2	2:A:889:HIS:N	2.26	0.51
2:B:747:ARG:HD2	2:B:769:ASP:HB2	1.93	0.51
2:C:447:LYS:HE2	2:C:1112:ASP:HA	1.93	0.51
2:G:1246:THR:N	2:G:1267:ASN:OD1	2.35	0.51
2:B:643:GLN:HB3	2:G:672:PHE:HZ	1.76	0.51
2:H:130:GLU:HB3	2:H:1074:THR:HG22	1.93	0.51
2:H:625:LEU:HD11	2:H:660:HIS:CG	2.46	0.51
2:H:895:VAL:HB	2:H:914:GLN:HB2	1.93	0.51
2:K:1244:TYR:HB2	2:K:1266:PHE:HD2	1.75	0.51
2:L:1165:VAL:O	2:M:213:SER:HB2	2.11	0.51
2:K:583:ARG:HH12	2:L:999:PRO:HD3	1.75	0.51
1:2:129:LEU:HD11	1:2:204:VAL:HG13	1.93	0.51
1:4:181:VAL:HG12	1:4:183:PRO:HD3	1.92	0.51
1:8:76:VAL:HG11	1:8:209:LEU:HD23	1.93	0.51
2:A:733:VAL:HG23	2:A:894:GLU:HG3	1.93	0.51
2:D:733:VAL:HG23	2:D:894:GLU:HB2	1.92	0.51
2:G:461:LEU:HD13	2:G:552:CYS:HB2	1.91	0.51
2:I:1330:LEU:HD13	2:J:1183:VAL:HG11	1.93	0.51
2:I:507:ARG:HD3	2:I:512:MET:CE	2.41	0.51
2:I:606:TYR:OH	2:I:649:HIS:ND1	2.43	0.51
2:J:651:TYR:HA	2:J:654:VAL:HG12	1.92	0.51
2:K:692:GLY:O	2:L:993:ARG:NH1	2.44	0.51
2:M:617:VAL:HG12	2:M:619:GLY:H	1.76	0.51
2:M:601:VAL:HG21	2:M:793:THR:HG22	1.92	0.51
2:N:559:GLY:HA3	2:N:1011:MET:HB3	1.91	0.51
2:N:1244:TYR:HA	2:N:1249:ARG:HH21	1.76	0.51
2:P:642:ARG:HD3	2:P:644:LEU:HD21	1.92	0.51
2:P:770:ASP:O	2:P:772:ARG:N	2.44	0.51
1:6:32:GLU:OE2	1:6:223:LYS:NZ	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:36:ARG:HB3	2:N:114:ILE:CG1	2.40	0.51
2:H:695:ASN:OD1	2:I:507:ARG:NH1	2.44	0.51
2:I:733:VAL:HG12	2:I:738:PRO:HA	1.92	0.51
2:J:535:PRO:HB3	2:J:1232:TRP:CZ2	2.46	0.51
2:L:1214:ILE:HG23	2:L:1215:TYR:CD2	2.46	0.51
2:L:234:ARG:HH22	2:L:282:ILE:HD13	1.76	0.51
2:M:478:LEU:HD22	2:M:527:ILE:HD12	1.93	0.51
2:M:913:ARG:H	2:M:984:HIS:HB3	1.75	0.51
2:P:372:LEU:HD12	2:P:385:LEU:HD11	1.93	0.51
3:V:29:PRO:HG2	3:V:32:ILE:HG12	1.93	0.51
2:A:1054:CYS:SG	2:A:1055:THR:N	2.84	0.51
2:B:892:VAL:HG11	2:B:979:PHE:CE1	2.46	0.51
2:I:76:HIS:HB3	2:I:1056:SER:HA	1.92	0.51
2:I:1058:ILE:HD11	2:I:1082:ASN:HD22	1.75	0.51
2:K:1035:THR:HG21	2:K:1176:LEU:HD12	1.92	0.51
2:L:315:ALA:HB2	2:L:321:ILE:HD11	1.93	0.51
2:C:25:THR:OG1	2:M:203:ALA:O	2.22	0.51
2:N:1247:ARG:HG3	2:N:1269:GLU:HG3	1.92	0.51
2:N:1324:ILE:HA	2:N:1358:GLU:HG3	1.91	0.51
2:N:651:TYR:HB2	2:N:784:PHE:CD2	2.46	0.51
2:O:900:ASP:OD2	2:O:1014:LYS:NZ	2.44	0.51
2:P:1056:SER:OG	2:P:1086:MET:SD	2.68	0.51
1:2:154:ILE:HG21	1:2:208:ARG:HD3	1.93	0.50
1:4:246:ASP:HB3	1:4:281:SER:HB2	1.93	0.50
2:A:108:THR:HG22	2:A:110:ARG:H	1.75	0.50
2:A:269:ILE:HG12	2:A:368:ILE:HG13	1.92	0.50
2:C:1115:ARG:O	2:C:1255:ASN:ND2	2.44	0.50
2:D:182:THR:HG21	2:D:1083:THR:HG21	1.94	0.50
2:D:382:LYS:HE3	2:D:386:GLU:O	2.11	0.50
2:E:681:LEU:HA	2:E:783:VAL:HG11	1.93	0.50
2:E:611:TYR:CZ	2:E:923:VAL:HG13	2.46	0.50
2:F:224:LEU:HD22	2:F:1359:ILE:HG12	1.93	0.50
2:F:399:LEU:HD13	2:F:1182:ASP:HB3	1.93	0.50
2:H:647:PHE:HD2	2:H:653:LEU:HD13	1.76	0.50
2:I:1001:VAL:O	2:I:1003:HIS:N	2.36	0.50
2:J:598:LYS:HB3	2:J:792:MET:HE3	1.93	0.50
2:J:884:GLN:O	3:Z:66:ARG:NH2	2.44	0.50
2:K:1064:VAL:HG22	2:K:1077:VAL:HG12	1.92	0.50
2:L:129:PHE:HE1	2:L:1077:VAL:HG13	1.76	0.50
2:M:600:THR:OG1	2:M:645:LEU:O	2.19	0.50
2:N:251:THR:HG21	2:N:1089:GLY:HA3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:294:GLU:OE2	2:A:361:ARG:NH2	2.44	0.50
2:A:747:ARG:HE	2:A:749:HIS:CE1	2.29	0.50
2:C:574:ARG:NH2	2:C:1010:ALA:O	2.45	0.50
2:F:558:ILE:HG12	2:F:574:ARG:HH22	1.74	0.50
2:F:985:ASN:O	2:F:988:ARG:NH1	2.44	0.50
2:H:1290:LYS:HG2	2:H:1312:GLU:HA	1.93	0.50
2:H:642:ARG:NH1	2:M:662:ALA:O	2.44	0.50
2:J:1110:VAL:HA	2:J:1171:ALA:HB3	1.92	0.50
2:J:211:GLN:O	2:J:215:ILE:HG12	2.11	0.50
2:K:760:MET:HB3	2:K:889:HIS:CD2	2.42	0.50
2:N:226:THR:HG22	2:N:229:LEU:HD11	1.91	0.50
1:2:78:GLU:HA	1:3:190:ARG:HH12	1.75	0.50
2:D:657:ILE:HG23	2:D:661:LEU:HD22	1.94	0.50
2:E:273:MET:HB3	2:E:1049:TYR:HD1	1.77	0.50
2:F:988:ARG:HB2	2:F:990:PRO:HD2	1.94	0.50
2:J:120:SER:HB3	2:J:1084:VAL:HG12	1.92	0.50
2:L:753:ASP:HB3	2:L:756:ARG:HB3	1.93	0.50
2:M:212:ARG:HD3	2:M:1200:LEU:O	2.11	0.50
2:H:91:MET:HG2	2:M:54:PHE:HB2	1.93	0.50
2:O:733:VAL:HG12	2:O:738:PRO:HA	1.93	0.50
2:P:908:PRO:HB3	2:P:1123:ARG:HH12	1.76	0.50
2:A:564:GLY:H	2:A:567:PRO:HG3	1.76	0.50
2:C:733:VAL:HG23	2:C:738:PRO:HA	1.94	0.50
2:E:1348:GLU:H	2:E:1355:VAL:HB	1.77	0.50
2:D:1101:ARG:HH11	2:E:214:ASN:ND2	2.08	0.50
2:E:566:ALA:HB1	2:E:571:HIS:CE1	2.46	0.50
2:G:451:HIS:HA	2:G:1114:PHE:HE1	1.76	0.50
2:I:1035:THR:HG21	2:I:1176:LEU:HD12	1.93	0.50
2:I:212:ARG:HH12	2:I:1204:PRO:HD3	1.76	0.50
2:K:1325:LEU:HD22	2:K:1344:PHE:HD1	1.75	0.50
2:L:440:ILE:HG12	2:L:1108:VAL:HG11	1.93	0.50
2:M:975:LEU:HB3	2:M:979:PHE:HB2	1.94	0.50
2:N:514:GLN:HE22	2:N:562:PRO:HA	1.77	0.50
2:O:1189:PRO:HA	2:O:1323:PRO:HD3	1.94	0.50
2:O:536:PHE:O	2:O:555:ARG:N	2.34	0.50
3:V:29:PRO:HB2	3:V:31:GLU:HG2	1.93	0.50
2:A:1180:THR:C	2:A:1182:ASP:H	2.13	0.50
2:C:812:PHE:HB2	3:S:65:LEU:HD21	1.93	0.50
2:D:212:ARG:HD3	2:D:1200:LEU:O	2.11	0.50
2:D:318:TYR:CE2	2:D:320:SER:HB3	2.47	0.50
2:D:861:VAL:HG13	2:D:865:ALA:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:927:PRO:HD2	2:D:952:LEU:HD11	1.92	0.50
2:E:578:ILE:HD13	2:E:1028:ILE:HG12	1.94	0.50
2:F:1193:ARG:HG2	2:F:1266:PHE:HE1	1.77	0.50
2:F:1193:ARG:HG2	2:F:1266:PHE:CE1	2.47	0.50
2:F:684:VAL:O	2:F:687:ILE:HG22	2.12	0.50
2:G:514:GLN:NE2	2:G:563:ASP:OD2	2.40	0.50
2:G:803:ASN:HD22	2:G:889:HIS:CD2	2.29	0.50
2:J:1228:THR:HG23	2:J:1234:SER:HB3	1.93	0.50
2:J:1268:THR:HA	2:J:1271:ILE:HG22	1.93	0.50
2:J:397:VAL:HG13	2:J:1034:LEU:HB2	1.94	0.50
2:N:440:ILE:HD13	2:N:1108:VAL:HG12	1.92	0.50
2:N:626:LEU:HD13	2:N:881:LEU:HB3	1.93	0.50
2:N:651:TYR:HA	2:N:654:VAL:HG12	1.93	0.50
2:N:1103:ARG:HH21	2:O:210:ILE:HD12	1.77	0.50
1:9:159:LEU:HD23	1:9:190:ARG:HH22	1.77	0.50
2:B:433:ARG:HD2	2:B:1105:ASP:HA	1.94	0.50
2:B:662:ALA:O	2:C:642:ARG:NH2	2.45	0.50
2:C:710:LEU:HB2	2:C:1012:LEU:HD23	1.94	0.50
2:E:1004:SER:HA	2:E:1007:THR:HG22	1.93	0.50
2:E:571:HIS:ND1	2:E:1011:MET:SD	2.85	0.50
2:E:966:TYR:HB3	2:E:973:PHE:HB3	1.93	0.50
2:E:128:PRO:HG3	2:F:108:THR:HG21	1.94	0.50
2:F:653:LEU:O	2:F:657:ILE:HG12	2.12	0.50
2:G:698:LEU:HD21	2:G:1127:VAL:HG22	1.93	0.50
2:H:1244:TYR:HB2	2:H:1266:PHE:HD2	1.77	0.50
2:K:399:LEU:HD23	2:K:1033:ALA:HB1	1.93	0.50
2:N:342:ASP:O	2:N:344:LEU:N	2.42	0.50
2:O:733:VAL:HG12	2:O:739:LEU:H	1.76	0.50
1:0:118:VAL:O	1:0:214:ARG:NH1	2.44	0.50
1:7:16:LEU:HD13	1:7:58:LEU:HD21	1.94	0.50
2:A:1119:MET:HG3	2:A:1253:GLY:HA3	1.94	0.50
2:A:769:ASP:OD1	2:A:770:ASP:N	2.45	0.50
2:C:1298:ASP:HB2	2:D:209:ARG:NH2	2.26	0.50
2:C:180:LEU:HD23	2:C:384:PRO:HG2	1.93	0.50
2:D:1109:ARG:HH21	2:D:1169:LYS:HB3	1.77	0.50
2:E:651:TYR:HA	2:E:654:VAL:HG12	1.92	0.50
2:B:96:GLN:HE21	2:G:166:ASN:HB2	1.77	0.50
2:H:63:TRP:CZ3	2:H:169:ASP:HB2	2.47	0.50
2:I:1167:GLY:HA2	2:J:210:ILE:HG23	1.94	0.50
2:I:1214:ILE:HD13	2:I:1268:THR:HG23	1.93	0.50
2:J:1060:ASN:O	2:J:1079:GLN:NE2	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1244:TYR:HB2	2:J:1266:PHE:HD2	1.76	0.50
2:J:698:LEU:O	2:J:700:GLU:N	2.44	0.50
2:K:314:THR:O	2:K:319:HIS:N	2.44	0.50
2:M:1268:THR:HA	2:M:1271:ILE:HG22	1.94	0.50
2:N:455:HIS:NE2	2:N:1017:PRO:HB3	2.27	0.50
2:O:633:ARG:HH11	2:O:870:THR:HG21	1.77	0.50
2:B:705:ALA:HA	2:B:711:HIS:HB2	1.92	0.50
2:E:232:ARG:HG3	2:E:233:THR:HG23	1.93	0.50
2:F:1101:ARG:NH1	2:G:199:ASN:HD21	2.05	0.50
2:H:382:LYS:NZ	2:H:386:GLU:OE1	2.38	0.50
2:H:798:CYS:HA	2:H:943:TYR:HA	1.94	0.50
2:H:556:ILE:HG21	2:H:986:TRP:CZ3	2.47	0.50
2:K:212:ARG:NH2	2:K:1204:PRO:HD3	2.23	0.50
2:L:51:GLU:OE2	2:M:90:LYS:NZ	2.38	0.50
2:L:457:PRO:HG3	2:L:907:LEU:HG	1.93	0.50
2:N:271:GLY:HA2	2:N:1051:GLY:HA2	1.93	0.50
2:N:797:ALA:O	2:N:943:TYR:HA	2.11	0.50
2:O:1214:ILE:HG23	2:O:1215:TYR:CD2	2.46	0.50
2:O:32:PHE:HB2	2:O:35:LEU:HD23	1.94	0.50
1:2:164:VAL:HA	1:2:167:ILE:HG22	1.93	0.50
1:8:20:LEU:HB3	1:8:65:GLU:HG3	1.93	0.50
1:9:84:CYS:O	1:9:109:LEU:HD21	2.11	0.50
2:D:453:VAL:HA	2:D:456:GLU:HG2	1.93	0.50
2:E:1037:VAL:HG23	2:E:1172:CYS:HB3	1.94	0.50
2:F:664:GLY:O	2:F:666:LEU:N	2.45	0.50
2:H:710:LEU:HB2	2:H:1012:LEU:HD23	1.93	0.50
2:H:452:PRO:HG3	2:H:1122:TYR:CE2	2.47	0.50
2:I:537:PHE:HA	2:I:554:PRO:HA	1.93	0.50
2:I:945:ASN:ND2	2:I:947:THR:OG1	2.45	0.50
2:K:688:SER:HB3	2:K:708:ASN:HD22	1.77	0.50
2:L:854:GLY:O	2:L:858:THR:OG1	2.23	0.50
2:M:457:PRO:HD3	2:M:537:PHE:CZ	2.46	0.50
2:N:1238:CYS:HG	2:N:1240:SER:HG	1.60	0.50
2:P:536:PHE:HE1	2:P:1032:PHE:CZ	2.30	0.50
2:P:1053:SER:HB3	2:P:1086:MET:HE3	1.94	0.50
1:3:53:PHE:HE1	1:3:271:LEU:HD21	1.76	0.49
1:9:235:LEU:HD23	1:9:254:LEU:HD21	1.94	0.49
2:A:1047:LEU:HG	2:A:1097:ALA:HB2	1.94	0.49
2:B:1104:THR:HG22	2:B:1106:MET:H	1.77	0.49
2:D:698:LEU:HD11	2:D:1127:VAL:HA	1.93	0.49
2:D:1322:LEU:HD13	2:D:1360:ILE:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:232:ARG:NH2	2:F:1360:ILE:HG23	2.27	0.49
2:G:681:LEU:HB3	2:G:780:LEU:HD22	1.93	0.49
2:I:1177:THR:HG1	2:I:1180:THR:HG1	1.59	0.49
2:K:867:ASP:OD1	2:K:868:ALA:N	2.45	0.49
2:N:341:ASN:OD1	2:N:342:ASP:N	2.42	0.49
2:N:556:ILE:HG21	2:N:986:TRP:HZ3	1.77	0.49
2:O:719:PHE:HE2	2:O:922:CYS:HB2	1.77	0.49
2:P:535:PRO:HB3	2:P:1232:TRP:CZ2	2.47	0.49
2:A:1059:ILE:HA	2:A:1081:ILE:HG22	1.93	0.49
2:A:567:PRO:HG2	2:A:1179:VAL:HG11	1.94	0.49
2:A:716:TRP:CZ3	2:A:895:VAL:HG21	2.47	0.49
2:B:1157:SER:HB3	2:B:1258:PHE:HZ	1.76	0.49
2:C:1177:THR:HG22	2:C:1232:TRP:CZ3	2.46	0.49
2:C:747:ARG:HB2	2:C:767:PHE:HB3	1.92	0.49
2:D:3:ASN:ND2	2:E:317:SER:O	2.46	0.49
2:E:583:ARG:HH22	2:F:569:PRO:HD3	1.77	0.49
2:H:642:ARG:HD3	2:H:644:LEU:HD21	1.92	0.49
2:H:1297:THR:O	2:I:210:ILE:HD11	2.12	0.49
2:I:341:ASN:OD1	2:I:342:ASP:N	2.45	0.49
2:I:513:LYS:NZ	2:I:532:GLU:OE2	2.38	0.49
2:J:1041:THR:N	2:J:1104:THR:OG1	2.40	0.49
2:J:455:HIS:NE2	2:J:1017:PRO:HB3	2.27	0.49
2:M:1195:ARG:NH1	2:M:1227:ALA:O	2.46	0.49
2:N:690:LEU:HD13	2:N:693:LEU:HD12	1.94	0.49
2:N:739:LEU:HD22	2:N:766:LEU:HD21	1.94	0.49
2:N:1027:HIS:HE1	2:O:520:ASP:HB2	1.77	0.49
2:H:823:ALA:O	3:X:74:ARG:NH2	2.44	0.49
1:6:98:ASP:OD1	1:6:98:ASP:N	2.44	0.49
1:7:81:GLU:OE1	1:8:191:HIS:NE2	2.33	0.49
2:A:1312:GLU:O	2:A:1316:ARG:N	2.45	0.49
2:B:518:VAL:HB	2:B:1179:VAL:HG11	1.94	0.49
2:B:534:HIS:CD2	2:B:536:PHE:HB2	2.47	0.49
2:B:626:LEU:HD12	2:B:885:PHE:HE2	1.77	0.49
2:D:786:LEU:HD22	2:D:1012:LEU:HD11	1.95	0.49
2:D:291:ILE:HG12	2:D:360:ILE:HG22	1.94	0.49
2:E:505:VAL:HB	2:E:974:PRO:HG3	1.94	0.49
2:H:207:LEU:HD13	2:H:212:ARG:HB3	1.94	0.49
2:H:653:LEU:O	2:H:657:ILE:HG12	2.12	0.49
2:J:716:TRP:NE1	2:J:895:VAL:HG11	2.27	0.49
2:L:1264:GLN:OE1	2:L:1313:ASN:ND2	2.45	0.49
2:D:200:ALA:HA	2:L:21:THR:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:475:MET:SD	2:L:1218:ARG:NH2	2.85	0.49
2:M:1191:ASN:ND2	2:M:1197:SER:OG	2.46	0.49
2:L:1101:ARG:HH22	2:M:202:LEU:HD22	1.77	0.49
2:L:114:ILE:HG12	2:N:37:ILE:HG22	1.94	0.49
2:O:1035:THR:HG21	2:O:1176:LEU:HD12	1.94	0.49
2:O:342:ASP:O	2:O:344:LEU:N	2.40	0.49
1:7:74:SER:HA	1:7:77:LEU:HB3	1.94	0.49
2:A:1037:VAL:HG23	2:A:1261:PRO:HG2	1.93	0.49
2:A:762:ALA:O	2:A:891:LYS:NZ	2.45	0.49
2:B:941:ARG:HD2	2:B:982:GLU:CG	2.42	0.49
2:D:545:ASN:O	2:D:547:GLU:N	2.43	0.49
2:F:1327:THR:HG22	2:F:1355:VAL:HG22	1.95	0.49
2:F:578:ILE:HD13	2:F:1028:ILE:HG12	1.94	0.49
2:H:983:TYR:O	2:H:988:ARG:NH2	2.46	0.49
2:M:708:ASN:HB3	2:M:711:HIS:HD2	1.77	0.49
2:M:895:VAL:HB	2:M:914:GLN:HB2	1.94	0.49
2:N:1362:LEU:HD12	2:N:1363:GLN:HG3	1.95	0.49
2:O:1215:TYR:HH	2:O:1268:THR:HG1	1.54	0.49
2:O:657:ILE:HG23	2:O:661:LEU:HD22	1.94	0.49
2:B:645:LEU:HD13	2:B:674:TYR:HE1	1.77	0.49
2:C:94:HIS:HA	2:C:115:MET:HG2	1.93	0.49
2:F:687:ILE:HD13	2:F:1006:MET:HB3	1.92	0.49
2:G:1196:ALA:HB3	2:G:1222:ALA:HB3	1.94	0.49
2:G:1250:GLU:HA	2:G:1254:TYR:HE1	1.76	0.49
2:G:274:VAL:HG12	2:G:370:GLU:HB3	1.93	0.49
2:H:1065:THR:HG22	2:H:1076:HIS:O	2.13	0.49
2:H:125:ILE:HG22	2:I:103:GLY:HA2	1.94	0.49
2:M:1291:ASP:HB3	2:M:1316:ARG:HH22	1.77	0.49
2:M:562:PRO:O	2:M:566:ALA:N	2.43	0.49
2:N:102:SER:HB3	2:N:108:THR:HG22	1.95	0.49
2:O:1247:ARG:HG3	2:O:1269:GLU:HG3	1.94	0.49
1:1:63:TYR:HE1	1:1:221:GLU:HG3	1.77	0.49
1:4:235:LEU:HD23	1:4:254:LEU:HD21	1.94	0.49
2:C:269:ILE:HG12	2:C:368:ILE:HD11	1.94	0.49
2:C:433:ARG:O	2:C:1367:LEU:HD21	2.11	0.49
2:C:494:ARG:HA	2:C:497:HIS:HD2	1.78	0.49
2:F:555:ARG:HH21	2:F:561:LEU:HD23	1.76	0.49
2:F:616:LEU:HB3	2:F:882:ALA:HB1	1.95	0.49
2:I:601:VAL:HG23	2:I:924:VAL:HG21	1.95	0.49
2:J:64:VAL:HG11	2:J:375:VAL:HG12	1.94	0.49
2:M:212:ARG:NH2	2:M:1202:VAL:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:396:PRO:HB3	2:O:1186:PHE:CZ	2.47	0.49
2:P:450:CYS:SG	2:P:1131:ILE:HD12	2.53	0.49
3:Q:41:ALA:HA	3:Q:44:LEU:HG	1.94	0.49
3:R:18:HIS:CE1	3:R:44:LEU:HB3	2.48	0.49
1:4:52:LEU:HD13	1:4:234:LEU:HB3	1.93	0.49
2:A:710:LEU:HD11	2:A:783:VAL:HG22	1.94	0.49
2:C:488:MET:HG3	2:C:894:GLU:HB2	1.94	0.49
2:E:1060:ASN:O	2:E:1079:GLN:NE2	2.32	0.49
2:E:125:ILE:HG13	2:E:1079:GLN:HB3	1.93	0.49
2:E:1342:GLY:H	2:E:1364:GLN:HG2	1.77	0.49
2:G:693:LEU:HD23	2:G:1025:LYS:HB3	1.94	0.49
2:G:1290:LYS:HE2	2:G:1310:LEU:HB2	1.95	0.49
2:H:1193:ARG:NH2	2:H:1195:ARG:O	2.46	0.49
2:H:1244:TYR:HA	2:H:1249:ARG:HH21	1.75	0.49
2:I:1177:THR:HG22	2:I:1232:TRP:HZ3	1.77	0.49
2:J:1325:LEU:HD22	2:J:1344:PHE:HD2	1.78	0.49
2:J:519:THR:O	2:J:523:LYS:NZ	2.46	0.49
2:K:1057:VAL:HG12	2:K:1083:THR:HG22	1.93	0.49
2:K:805:LYS:H	2:K:889:HIS:CE1	2.27	0.49
2:L:299:PRO:HA	2:L:352:LEU:HD23	1.94	0.49
2:N:1004:SER:O	2:N:1007:THR:HG22	2.12	0.49
2:P:1038:ARG:NH1	2:P:1106:MET:O	2.46	0.49
1:5:92:TYR:CE1	1:5:106:LEU:HD13	2.48	0.49
1:8:49:ARG:HG2	1:8:238:GLU:HB3	1.95	0.49
2:B:941:ARG:NH1	2:B:992:SER:HB3	2.28	0.49
2:D:1365:SER:O	2:D:1369:ASN:N	2.44	0.49
2:D:534:HIS:ND1	2:D:535:PRO:HD2	2.28	0.49
2:F:1040:ASP:HA	2:F:1104:THR:HG21	1.93	0.49
2:F:180:LEU:HD23	2:F:384:PRO:HG2	1.94	0.49
2:G:419:THR:OG1	2:G:422:ASN:ND2	2.43	0.49
2:G:37:ILE:HD12	2:G:45:ARG:HB3	1.95	0.49
2:I:399:LEU:HD23	2:I:1033:ALA:HB1	1.95	0.49
2:I:220:LYS:HE3	2:I:1320:GLU:HG3	1.95	0.49
2:I:227:LEU:HD21	2:I:391:LEU:HD21	1.95	0.49
2:K:1190:ASN:OD1	2:K:1191:ASN:N	2.45	0.49
2:L:1221:ASP:OD1	2:L:1222:ALA:N	2.46	0.49
2:L:97:VAL:HG11	2:N:24:LYS:HZ2	1.78	0.49
2:D:884:GLN:HA	3:T:66:ARG:HB2	1.95	0.49
1:4:92:TYR:OH	1:4:110:ASP:OD2	2.31	0.49
2:A:567:PRO:CD	2:A:1179:VAL:HG21	2.42	0.49
2:A:587:PRO:HD3	2:A:683:LEU:HD11	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1215:TYR:CD1	2:B:1236:ALA:HB2	2.47	0.49
2:B:408:THR:HG23	2:B:1350:HIS:ND1	2.28	0.49
2:C:559:GLY:HA3	2:C:1011:MET:HB3	1.94	0.49
2:E:416:LEU:HD21	2:E:1329:THR:HG21	1.94	0.49
2:G:536:PHE:HB3	2:G:1015:ILE:HD13	1.94	0.49
2:G:1224:THR:HG21	2:G:1229:HIS:NE2	2.28	0.49
2:G:535:PRO:HB3	2:G:1232:TRP:CH2	2.48	0.49
2:I:556:ILE:O	2:I:1015:ILE:HG13	2.12	0.49
2:H:1163:ALA:HB2	2:I:1213:ALA:HB1	1.94	0.49
2:J:554:PRO:O	2:J:988:ARG:NH2	2.44	0.49
2:J:723:LEU:HG	2:J:768:VAL:HG21	1.95	0.49
2:K:1289:ALA:O	2:K:1316:ARG:NH1	2.45	0.49
2:K:208:ASN:HB2	2:K:211:GLN:HG2	1.95	0.49
2:K:373:ARG:NH1	2:L:201:THR:HG21	2.27	0.49
2:O:311:ASN:HB3	2:O:321:ILE:HD12	1.94	0.49
2:O:388:ASN:N	2:O:388:ASN:OD1	2.46	0.49
2:O:1103:ARG:HA	2:P:214:ASN:HD21	1.77	0.49
1:9:49:ARG:HG2	1:9:238:GLU:HB3	1.94	0.49
2:A:1113:LEU:HA	2:A:1116:VAL:HB	1.95	0.49
2:A:182:THR:HG21	2:A:1083:THR:HG21	1.95	0.49
2:A:470:PRO:HD2	2:A:479:LEU:HD11	1.94	0.49
2:B:446:LEU:HD21	2:B:1021:VAL:HG13	1.94	0.49
2:D:313:VAL:HG22	2:M:332:LEU:HD12	1.95	0.49
2:D:478:LEU:HD21	2:D:509:VAL:HG13	1.93	0.49
2:E:1189:PRO:HB3	2:E:1323:PRO:HD3	1.95	0.49
2:E:1119:MET:HG3	2:E:1253:GLY:HA3	1.95	0.49
2:H:1221:ASP:OD1	2:H:1222:ALA:N	2.46	0.49
2:H:572:GLU:OE2	2:M:583:ARG:NH2	2.46	0.49
2:I:190:TYR:HB2	2:I:1095:CYS:HB3	1.95	0.49
2:O:1177:THR:HG22	2:O:1232:TRP:CZ3	2.48	0.49
2:O:611:TYR:CZ	2:O:923:VAL:HG13	2.48	0.49
2:P:553:THR:HG21	2:P:983:TYR:HB3	1.94	0.49
3:Y:25:VAL:HA	3:Y:57:LYS:HD2	1.95	0.49
1:1:66:LEU:HB3	1:1:217:TRP:CH2	2.48	0.48
2:D:190:TYR:HD2	2:D:226:THR:HG21	1.77	0.48
2:D:461:LEU:HD13	2:D:552:CYS:HB2	1.95	0.48
2:F:936:PRO:HD3	2:F:952:LEU:HD22	1.93	0.48
2:H:99:ARG:NH1	2:H:111:GLN:HB3	2.28	0.48
2:H:59:ASN:HD22	2:I:95:VAL:HA	1.77	0.48
2:J:606:TYR:HB3	2:J:925:THR:HG21	1.95	0.48
2:K:1066:LYS:HG3	2:K:1075:TYR:HE1	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1189:PRO:HA	2:L:1323:PRO:HD3	1.95	0.48
2:K:668:PRO:HB2	2:L:643:GLN:HG3	1.95	0.48
2:M:209:ARG:O	2:M:212:ARG:HG2	2.13	0.48
2:M:633:ARG:HH22	2:M:870:THR:HG21	1.78	0.48
2:N:556:ILE:HG21	2:N:986:TRP:CZ3	2.48	0.48
2:O:666:LEU:HD12	2:O:671:LEU:HD12	1.95	0.48
2:A:1061:ASN:OD1	2:A:1062:PRO:HD2	2.13	0.48
2:A:890:VAL:HG11	2:A:935:LEU:HD23	1.95	0.48
2:C:211:GLN:O	2:C:215:ILE:HG12	2.13	0.48
2:C:631:VAL:HG23	2:C:647:PHE:CE2	2.48	0.48
2:E:1235:GLN:HB2	2:E:1238:CYS:HB3	1.95	0.48
2:F:188:PRO:HG3	2:F:1090:TYR:CD2	2.48	0.48
2:I:1214:ILE:HG21	2:I:1272:ILE:HD11	1.94	0.48
2:L:693:LEU:HB3	2:L:1022:LEU:HD11	1.95	0.48
2:N:431:LEU:HD22	2:N:435:ARG:HA	1.95	0.48
2:O:434:ASP:HA	2:O:1367:LEU:HD21	1.94	0.48
2:P:1040:ASP:HA	2:P:1104:THR:HG21	1.94	0.48
1:O:98:ASP:N	1:O:98:ASP:OD1	2.47	0.48
2:A:630:PHE:HZ	2:A:865:ALA:HB1	1.79	0.48
2:B:128:PRO:HB3	2:B:1076:HIS:CE1	2.48	0.48
2:B:544:GLU:HB3	2:B:547:GLU:HB2	1.94	0.48
2:D:559:GLY:HA3	2:D:1011:MET:HB3	1.96	0.48
2:D:1336:LYS:HE3	2:D:1355:VAL:HG11	1.96	0.48
2:F:124:PRO:HG2	2:G:104:ALA:HB2	1.96	0.48
2:F:1174:LEU:HD11	2:F:1262:CYS:SG	2.54	0.48
2:G:216:LEU:HD22	2:G:1200:LEU:HB2	1.95	0.48
2:H:1156:MET:SD	2:H:1294:ARG:NH1	2.86	0.48
2:H:1323:PRO:HG2	2:H:1359:ILE:HB	1.95	0.48
2:I:391:LEU:HD23	2:I:1322:LEU:HD12	1.94	0.48
2:H:1164:THR:O	2:I:213:SER:HB3	2.13	0.48
2:I:698:LEU:HB2	2:I:706:TYR:CE2	2.48	0.48
2:I:663:ASP:HA	2:J:642:ARG:NH1	2.29	0.48
2:K:808:LEU:HD21	2:K:886:VAL:HG21	1.94	0.48
2:L:535:PRO:HD2	2:L:1239:LEU:HD23	1.94	0.48
2:L:188:PRO:HA	2:L:1286:LEU:HD21	1.95	0.48
1:2:166:ARG:HH22	1:2:186:LEU:HD22	1.78	0.48
1:2:235:LEU:HD23	1:2:254:LEU:HD21	1.94	0.48
2:A:432:ASN:HB2	2:A:434:ASP:OD1	2.13	0.48
2:A:484:GLN:HB3	2:A:977:THR:HB	1.93	0.48
2:D:212:ARG:NH2	2:D:1204:PRO:HD3	2.27	0.48
2:E:1193:ARG:HG2	2:E:1266:PHE:HE1	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:437:VAL:HB	2:F:1184:ASN:OD1	2.13	0.48
2:F:430:LEU:HD12	2:F:1108:VAL:HG22	1.95	0.48
2:G:1103:ARG:O	2:G:1167:GLY:HA3	2.14	0.48
2:G:312:ALA:O	2:G:316:ILE:HG12	2.14	0.48
2:I:657:ILE:HD12	2:I:661:LEU:HD22	1.93	0.48
2:K:1124:HIS:HE1	2:K:1126:GLU:HB3	1.78	0.48
2:K:853:VAL:HB	2:K:857:LEU:HD23	1.95	0.48
2:M:731:GLN:HB2	2:M:896:ARG:HB2	1.96	0.48
2:O:601:VAL:HG23	2:O:924:VAL:HG21	1.94	0.48
2:O:941:ARG:NH1	2:O:982:GLU:HG3	2.27	0.48
2:P:1362:LEU:O	2:P:1366:MET:HB2	2.13	0.48
2:A:630:PHE:CZ	2:A:865:ALA:HB1	2.48	0.48
2:B:710:LEU:HB2	2:B:1012:LEU:HD23	1.94	0.48
2:C:359:VAL:HG12	2:C:368:ILE:HD13	1.95	0.48
2:C:631:VAL:HG13	2:C:661:LEU:HD21	1.96	0.48
2:E:396:PRO:HB3	2:E:1186:PHE:CE1	2.48	0.48
2:F:254:ILE:HG22	2:F:1086:MET:HB3	1.95	0.48
2:E:433:ARG:HH12	2:F:217:GLN:HB2	1.78	0.48
2:H:1183:VAL:HG21	2:M:1330:LEU:HD13	1.95	0.48
2:H:15:ILE:HD12	2:H:16:PRO:HD2	1.94	0.48
2:K:1121:VAL:HG12	2:K:1139:ARG:HH12	1.79	0.48
2:K:12:LYS:HE3	2:O:94:HIS:ND1	2.29	0.48
2:K:184:LEU:HD23	2:K:1048:LEU:HD13	1.95	0.48
2:L:1069:ARG:HB2	2:L:1072:SER:O	2.14	0.48
2:L:936:PRO:HD3	2:L:952:LEU:HD23	1.96	0.48
2:M:300:ALA:N	2:M:351:SER:O	2.36	0.48
2:M:559:GLY:HA3	2:M:1011:MET:HB3	1.95	0.48
2:O:537:PHE:HA	2:O:554:PRO:HA	1.96	0.48
2:O:698:LEU:O	2:O:700:GLU:N	2.46	0.48
2:P:727:MET:HB2	2:P:730:VAL:HB	1.95	0.48
2:P:606:TYR:HB3	2:P:925:THR:HG21	1.95	0.48
2:A:884:GLN:O	3:Q:66:ARG:NH2	2.46	0.48
1:4:17:VAL:HG12	1:4:21:ARG:HH12	1.79	0.48
1:4:243:LEU:HD13	3:X:74:ARG:HA	1.96	0.48
1:6:140:VAL:HG21	1:6:158:HIS:NE2	2.27	0.48
2:A:502:ARG:HH22	2:A:958:ARG:HH21	1.62	0.48
2:B:97:VAL:HG12	2:B:113:THR:H	1.79	0.48
2:D:995:SER:HA	2:D:998:CYS:HB2	1.95	0.48
2:E:226:THR:HG23	2:E:229:LEU:HD21	1.95	0.48
2:E:647:PHE:HD1	2:E:653:LEU:HD13	1.77	0.48
2:G:1058:ILE:HG12	2:G:1082:ASN:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:625:LEU:HD11	2:G:660:HIS:CE1	2.49	0.48
2:I:1190:ASN:OD1	2:I:1191:ASN:N	2.46	0.48
2:I:633:ARG:HH11	2:I:870:THR:HG21	1.79	0.48
2:J:642:ARG:HD3	2:J:644:LEU:HD21	1.94	0.48
2:J:690:LEU:HD13	2:J:693:LEU:HD12	1.95	0.48
2:K:280:MET:O	2:K:284:MET:HG2	2.13	0.48
2:K:716:TRP:NE1	2:K:895:VAL:HG11	2.28	0.48
2:L:272:VAL:HG23	2:L:368:ILE:HB	1.95	0.48
2:L:651:TYR:CD2	2:L:781:GLN:HG2	2.48	0.48
2:O:1221:ASP:OD1	2:O:1222:ALA:N	2.47	0.48
2:P:447:LYS:HD2	2:P:1112:ASP:HB3	1.96	0.48
1:4:129:LEU:HD11	1:4:207:GLY:HA3	1.95	0.48
1:5:195:ALA:HA	1:5:198:ASN:HD22	1.78	0.48
1:8:118:VAL:O	1:8:214:ARG:NH1	2.46	0.48
2:A:1244:TYR:HA	2:A:1249:ARG:HH21	1.79	0.48
2:B:1244:TYR:HA	2:B:1249:ARG:HH21	1.78	0.48
2:B:556:ILE:HG21	2:B:986:TRP:CZ3	2.48	0.48
2:D:452:PRO:HB3	2:D:905:GLN:HG2	1.96	0.48
2:F:194:GLN:HG3	2:F:222:LYS:HE2	1.96	0.48
2:G:710:LEU:HD21	2:G:783:VAL:HG22	1.96	0.48
2:H:583:ARG:NH2	2:I:572:GLU:OE2	2.47	0.48
2:J:565:LEU:HD22	2:J:1177:THR:HG21	1.95	0.48
2:J:718:PRO:HD2	2:J:785:TYR:HB2	1.96	0.48
2:K:173:ARG:HB3	2:L:100:VAL:HG23	1.95	0.48
2:K:798:CYS:HB2	2:K:945:ASN:H	1.79	0.48
2:L:941:ARG:NH1	2:L:982:GLU:HG3	2.23	0.48
2:M:1172:CYS:SG	2:M:1173:GLU:N	2.87	0.48
2:P:693:LEU:HD22	2:P:1025:LYS:HD2	1.95	0.48
3:R:22:VAL:HG13	3:R:28:LEU:HD12	1.96	0.48
1:2:90:ARG:O	1:2:93:THR:OG1	2.25	0.48
1:3:166:ARG:HH22	1:3:187:ASN:HD21	1.60	0.48
1:5:124:ILE:HD13	1:5:127:ARG:HH21	1.79	0.48
2:A:45:ARG:HG3	2:A:46:TYR:CD2	2.49	0.48
2:B:1349:THR:HA	2:B:1354:TYR:HA	1.96	0.48
2:C:125:ILE:HG13	2:C:1079:GLN:HB3	1.96	0.48
2:C:1111:GLN:NE2	2:C:1112:ASP:OD1	2.46	0.48
2:C:688:SER:HB2	2:C:708:ASN:ND2	2.29	0.48
2:D:1193:ARG:NH2	2:D:1197:SER:HB3	2.29	0.48
2:D:196:LEU:O	2:D:200:ALA:N	2.46	0.48
2:D:635:ILE:HG22	2:D:670:LEU:HD13	1.95	0.48
2:D:936:PRO:HD3	2:D:952:LEU:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:53:ILE:HG22	2:E:55:GLY:H	1.79	0.48
2:I:1139:ARG:O	2:I:1141:GLN:N	2.47	0.48
2:I:433:ARG:O	2:I:1367:LEU:HD21	2.13	0.48
2:J:1250:GLU:HA	2:J:1254:TYR:HE1	1.79	0.48
2:K:216:LEU:HD13	2:K:1200:LEU:HD12	1.95	0.48
2:K:63:TRP:HH2	2:K:165:LYS:HB3	1.78	0.48
2:K:708:ASN:ND2	2:K:710:LEU:HB3	2.29	0.48
2:L:698:LEU:HB2	2:L:706:TYR:HE2	1.79	0.48
2:M:1147:THR:O	2:M:1151:LEU:N	2.46	0.48
2:N:624:PHE:HZ	2:N:657:ILE:HD13	1.79	0.48
2:P:808:LEU:HD23	2:P:883:VAL:HG13	1.96	0.48
1:3:227:ARG:NH2	1:3:231:ARG:HH22	2.12	0.48
1:4:22:HIS:O	1:4:26:LYS:HG2	2.14	0.48
2:A:495:ILE:HD11	2:A:938:PRO:HD2	1.94	0.48
2:C:272:VAL:HA	2:C:368:ILE:HB	1.96	0.48
2:D:716:TRP:CZ2	2:D:730:VAL:HG11	2.48	0.48
2:E:1176:LEU:HD22	2:E:1230:ASN:HB3	1.96	0.48
2:E:280:MET:O	2:E:284:MET:HG2	2.14	0.48
2:B:94:HIS:HB2	2:G:57:PHE:HA	1.95	0.48
2:K:1069:ARG:O	2:K:1071:ILE:N	2.47	0.48
2:L:1033:ALA:HB2	2:L:1178:PRO:HA	1.95	0.48
2:M:732:VAL:HG22	2:M:895:VAL:HG22	1.96	0.48
2:M:890:VAL:HA	2:M:919:ASN:HB3	1.96	0.48
2:N:127:ILE:HD11	2:O:101:ALA:HA	1.96	0.48
2:N:695:ASN:OD1	2:O:507:ARG:NH1	2.47	0.48
2:P:1195:ARG:NH1	2:P:1227:ALA:O	2.47	0.48
2:P:1250:GLU:HA	2:P:1254:TYR:HE1	1.77	0.48
1:8:246:ASP:HB2	1:8:278:TYR:HA	1.95	0.48
2:C:1173:GLU:O	2:C:1244:TYR:OH	2.21	0.48
2:C:680:VAL:O	2:C:684:VAL:HG23	2.14	0.48
2:E:1195:ARG:NH1	2:E:1227:ALA:O	2.47	0.48
2:F:1348:GLU:HB2	2:F:1355:VAL:HB	1.95	0.48
2:F:207:LEU:HD13	2:F:212:ARG:HB3	1.95	0.48
2:J:518:VAL:HB	2:J:1179:VAL:HG11	1.96	0.48
2:K:557:VAL:HB	2:K:1012:LEU:HA	1.96	0.48
2:K:688:SER:HB3	2:K:708:ASN:ND2	2.29	0.48
2:M:1102:VAL:HG21	2:M:1366:MET:SD	2.54	0.48
2:M:1129:ARG:HG2	2:M:1139:ARG:NH2	2.29	0.48
2:M:133:ALA:HA	2:M:136:LEU:HB3	1.95	0.48
2:N:77:ALA:HA	2:N:1057:VAL:HG23	1.96	0.48
2:N:502:ARG:HD2	2:N:962:GLU:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:407:TYR:HE2	2:P:1349:THR:HG1	1.59	0.48
2:O:50:PHE:HA	2:P:319:HIS:HB3	1.94	0.48
1:1:55:GLU:HB3	1:1:59:TRP:CD1	2.49	0.47
2:B:229:LEU:HD21	2:B:242:PHE:CE2	2.49	0.47
2:B:733:VAL:HG13	2:B:894:GLU:HB3	1.95	0.47
2:C:606:TYR:CD1	2:C:607:PRO:HD2	2.49	0.47
2:D:1037:VAL:HG21	2:D:1262:CYS:HB2	1.95	0.47
2:E:1349:THR:HA	2:E:1354:TYR:HA	1.96	0.47
2:E:672:PHE:HD1	2:E:675:ARG:HD3	1.79	0.47
2:E:58:CYS:HA	2:F:94:HIS:HB3	1.96	0.47
2:H:936:PRO:HD3	2:H:952:LEU:HD23	1.96	0.47
2:I:507:ARG:HD3	2:I:512:MET:HE1	1.96	0.47
2:I:562:PRO:O	2:I:566:ALA:N	2.45	0.47
2:J:1255:ASN:HD22	2:J:1258:PHE:HE2	1.62	0.47
2:J:447:LYS:HD2	2:J:1112:ASP:HB3	1.95	0.47
2:O:698:LEU:HD11	2:O:1130:TRP:CD1	2.48	0.47
2:P:1247:ARG:HE	2:P:1269:GLU:HG3	1.79	0.47
1:0:49:ARG:HG2	1:0:238:GLU:HB3	1.95	0.47
1:6:121:ASP:HB2	1:6:214:ARG:HH12	1.79	0.47
1:7:64:ARG:HH21	1:7:268:LEU:HD23	1.79	0.47
2:A:220:LYS:O	2:A:224:LEU:HG	2.13	0.47
2:B:1212:LYS:HE3	2:B:1219:GLU:HG3	1.96	0.47
2:B:718:PRO:HD3	2:B:786:LEU:HD12	1.97	0.47
2:D:1155:SER:HB2	2:D:1257:LYS:HD2	1.96	0.47
2:D:598:LYS:HA	2:D:601:VAL:HG12	1.95	0.47
2:E:73:ALA:HA	2:E:261:TYR:CZ	2.49	0.47
2:F:419:THR:HG22	2:F:421:ARG:H	1.78	0.47
2:F:562:PRO:HG2	2:F:565:LEU:HD12	1.96	0.47
2:F:769:ASP:OD1	2:F:770:ASP:N	2.47	0.47
2:F:973:PHE:CD1	2:F:974:PRO:HD2	2.49	0.47
2:H:1033:ALA:HB2	2:H:1178:PRO:HA	1.95	0.47
2:H:77:ALA:HA	2:H:1057:VAL:HG23	1.96	0.47
2:J:419:THR:HG22	2:J:421:ARG:H	1.79	0.47
2:J:797:ALA:O	2:J:943:TYR:HA	2.14	0.47
2:N:131:LEU:O	2:N:1072:SER:HA	2.13	0.47
2:P:229:LEU:HD21	2:P:242:PHE:CE2	2.49	0.47
3:Q:22:VAL:HG13	3:Q:28:LEU:HB2	1.96	0.47
1:7:120:HIS:HB3	1:7:124:ILE:HG12	1.95	0.47
2:A:630:PHE:HA	2:A:633:ARG:HE	1.79	0.47
2:B:515:ASP:HA	2:B:993:ARG:NH2	2.30	0.47
2:C:1160:ASN:HB3	2:D:209:ARG:HH12	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:424:LEU:HD11	2:E:573:LEU:HB3	1.97	0.47
2:E:513:LYS:HB2	2:E:528:THR:HG21	1.96	0.47
2:F:450:CYS:SG	2:F:1131:ILE:HD12	2.54	0.47
2:G:624:PHE:CZ	2:G:631:VAL:HG11	2.49	0.47
2:G:708:ASN:OD1	2:G:709:ALA:N	2.48	0.47
2:G:514:GLN:HE22	2:G:990:PRO:HA	1.80	0.47
2:H:359:VAL:HG12	2:H:368:ILE:HD13	1.95	0.47
2:H:573:LEU:HA	2:H:576:TRP:HD1	1.80	0.47
2:H:642:ARG:HB3	2:H:644:LEU:HG	1.96	0.47
2:I:1060:ASN:O	2:I:1079:GLN:NE2	2.26	0.47
2:I:558:ILE:HA	2:I:1015:ILE:HD11	1.97	0.47
2:I:716:TRP:CE2	2:I:895:VAL:HG11	2.49	0.47
2:I:946:PRO:HG3	2:I:973:PHE:CD1	2.48	0.47
2:I:1295:GLY:O	2:J:210:ILE:HD12	2.14	0.47
2:J:693:LEU:HB3	2:J:1022:LEU:HD11	1.96	0.47
2:J:747:ARG:HE	2:J:767:PHE:HB3	1.79	0.47
2:L:1109:ARG:NH2	2:L:1169:LYS:HB3	2.29	0.47
2:M:1182:ASP:HA	2:M:1186:PHE:HD2	1.79	0.47
2:H:342:ASP:HB3	2:M:55:GLY:HA3	1.97	0.47
2:D:11:PRO:HB3	2:N:337:PRO:HA	1.95	0.47
2:N:627:ILE:HD11	2:N:882:ALA:HB2	1.96	0.47
2:O:1257:LYS:O	2:O:1302:VAL:N	2.39	0.47
3:R:68:VAL:O	3:R:71:SER:OG	2.26	0.47
2:A:518:VAL:HB	2:A:564:GLY:HA2	1.95	0.47
2:B:502:ARG:NH1	2:B:958:ARG:HB3	2.27	0.47
2:C:389:VAL:HG23	2:C:1044:VAL:HG21	1.97	0.47
2:D:387:ARG:HD3	2:D:1046:MET:SD	2.54	0.47
2:D:947:THR:HG22	2:D:967:HIS:CE1	2.48	0.47
2:E:128:PRO:HB3	2:E:1076:HIS:ND1	2.30	0.47
2:E:268:LYS:O	2:E:366:THR:OG1	2.32	0.47
2:E:573:LEU:HA	2:E:576:TRP:HD1	1.79	0.47
2:F:899:LEU:O	2:F:904:ARG:NE	2.45	0.47
2:I:1244:TYR:HB2	2:I:1266:PHE:HD2	1.79	0.47
2:I:1268:THR:HA	2:I:1271:ILE:HG22	1.97	0.47
2:J:862:GLU:HG3	2:J:863:ASP:H	1.80	0.47
2:L:451:HIS:CE1	2:L:1117:PHE:HB2	2.50	0.47
2:C:48:ILE:HD13	2:L:152:LEU:HD11	1.95	0.47
2:M:1265:TYR:OH	2:M:1320:GLU:O	2.28	0.47
2:N:443:VAL:HA	2:N:446:LEU:HD13	1.95	0.47
2:A:1191:ASN:OD1	2:A:1192:PRO:HD2	2.14	0.47
2:A:259:THR:HG22	2:A:352:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:618:HIS:ND1	2:A:618:HIS:O	2.48	0.47
2:A:67:LEU:HD11	2:A:299:PRO:HG2	1.96	0.47
2:B:884:GLN:HA	3:R:66:ARG:HB2	1.97	0.47
2:C:396:PRO:HB3	2:C:1186:PHE:CE1	2.49	0.47
2:C:216:LEU:HD21	2:C:1198:CYS:HB3	1.96	0.47
2:D:1164:THR:OG1	2:E:209:ARG:HG2	2.14	0.47
2:D:1244:TYR:HA	2:D:1249:ARG:NH2	2.30	0.47
2:D:703:LEU:HA	2:D:706:TYR:HD2	1.80	0.47
2:F:62:GLU:OE2	2:F:173:ARG:NH1	2.48	0.47
2:J:259:THR:HG22	2:J:352:LEU:HD11	1.96	0.47
2:J:732:VAL:HG22	2:J:895:VAL:HG22	1.94	0.47
2:K:1230:ASN:HB3	2:K:1233:ALA:HB3	1.95	0.47
2:K:1359:ILE:HG23	2:K:1360:ILE:HG13	1.97	0.47
2:L:1228:THR:HG23	2:L:1234:SER:HB3	1.97	0.47
2:M:300:ALA:HB2	2:M:353:THR:HB	1.96	0.47
2:N:294:GLU:N	2:N:357:MET:O	2.44	0.47
2:O:1176:LEU:HD22	2:O:1230:ASN:HB3	1.96	0.47
2:O:211:GLN:O	2:O:215:ILE:HG12	2.14	0.47
2:P:455:HIS:CD2	2:P:1017:PRO:HD3	2.50	0.47
2:P:653:LEU:O	2:P:657:ILE:HG12	2.13	0.47
3:U:63:ASP:HA	3:U:66:ARG:HG2	1.96	0.47
1:5:66:LEU:HB3	1:5:217:TRP:CH2	2.50	0.47
2:A:1182:ASP:HB3	2:A:1186:PHE:HE2	1.78	0.47
2:A:481:CYS:O	2:A:543:GLN:HB2	2.15	0.47
2:A:567:PRO:HD2	2:A:1179:VAL:HG21	1.96	0.47
2:B:22:HIS:CG	2:B:23:VAL:H	2.32	0.47
2:B:936:PRO:HD3	2:B:952:LEU:HD23	1.97	0.47
2:B:663:ASP:HA	2:C:642:ARG:HH22	1.79	0.47
2:F:556:ILE:HG21	2:F:986:TRP:CH2	2.50	0.47
2:H:947:THR:HG23	2:H:969:HIS:HE1	1.79	0.47
2:I:188:PRO:HD2	2:I:1092:SER:O	2.15	0.47
2:M:1196:ALA:HB3	2:M:1222:ALA:HB3	1.97	0.47
2:M:452:PRO:HG3	2:M:1122:TYR:CE2	2.49	0.47
2:M:461:LEU:HD13	2:M:552:CYS:HB2	1.97	0.47
2:L:57:PHE:HD2	2:M:93:PHE:CE1	2.32	0.47
2:N:299:PRO:HA	2:N:352:LEU:HA	1.96	0.47
2:N:747:ARG:HG2	2:N:767:PHE:HB3	1.95	0.47
2:P:258:PRO:O	2:P:262:THR:OG1	2.32	0.47
1:2:103:ARG:HH12	1:2:107:ALA:HB2	1.78	0.47
2:C:1100:ASN:OD1	2:C:1101:ARG:N	2.47	0.47
2:C:638:MET:HE3	2:C:642:ARG:HE	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:668:PRO:HB3	2:E:642:ARG:HA	1.97	0.47
2:E:401:LEU:HD11	2:E:1354:TYR:HB3	1.97	0.47
2:F:1290:LYS:HZ2	2:F:1312:GLU:HB3	1.80	0.47
2:B:642:ARG:HH11	2:G:663:ASP:HA	1.79	0.47
2:H:1193:ARG:HG3	2:H:1233:ALA:O	2.15	0.47
2:I:698:LEU:HD23	2:I:1127:VAL:HG22	1.97	0.47
2:J:782:LYS:O	2:J:786:LEU:HB3	2.15	0.47
2:K:518:VAL:HG11	2:K:567:PRO:HG3	1.96	0.47
2:M:936:PRO:HB3	2:M:952:LEU:HD22	1.97	0.47
2:P:207:LEU:HD13	2:P:212:ARG:HB3	1.97	0.47
2:P:554:PRO:HD3	2:P:907:LEU:HD12	1.96	0.47
3:Q:29:PRO:HG2	3:Q:32:ILE:HG12	1.97	0.47
1:6:99:ARG:O	1:6:103:ARG:N	2.45	0.47
2:A:534:HIS:HB3	2:A:537:PHE:HB2	1.97	0.47
2:A:716:TRP:CD1	2:A:778:TRP:HZ2	2.32	0.47
2:A:739:LEU:HD11	2:A:745:GLU:HB3	1.96	0.47
2:G:1276:LYS:HB3	2:G:1280:LYS:HB2	1.96	0.47
2:F:1165:VAL:HG23	2:G:216:LEU:HD23	1.96	0.47
2:H:212:ARG:NH2	2:H:1202:VAL:O	2.47	0.47
2:J:662:ALA:HA	2:J:671:LEU:HD11	1.95	0.47
2:J:747:ARG:NH2	2:J:918:TYR:OH	2.47	0.47
2:L:556:ILE:O	2:L:1015:ILE:HG13	2.15	0.47
2:L:941:ARG:HG3	2:L:992:SER:HB3	1.97	0.47
2:M:446:LEU:HD21	2:M:1021:VAL:HG13	1.97	0.47
2:N:188:PRO:HG3	2:N:1090:TYR:CD2	2.50	0.47
2:O:1101:ARG:HH21	2:P:202:LEU:HD22	1.80	0.47
2:O:1185:TYR:HD1	2:O:1190:ASN:HD22	1.59	0.47
2:O:337:PRO:HG2	2:O:338:HIS:HD2	1.79	0.47
2:P:259:THR:HG22	2:P:352:LEU:HD11	1.95	0.47
3:T:29:PRO:HG2	3:T:32:ILE:HG12	1.96	0.47
1:8:116:THR:HA	1:9:90:ARG:HD2	1.96	0.47
2:A:716:TRP:HE3	2:A:916:VAL:HG21	1.80	0.47
2:C:698:LEU:HD21	2:C:1130:TRP:CD1	2.50	0.47
2:C:657:ILE:HG23	2:C:661:LEU:HD22	1.97	0.47
2:C:800:LEU:HG	2:C:923:VAL:HG21	1.97	0.47
2:D:361:ARG:NH2	2:D:364:GLU:OE1	2.48	0.47
2:D:537:PHE:HD1	2:D:554:PRO:HA	1.79	0.47
2:E:1132:ARG:HD2	2:E:1137:VAL:HB	1.96	0.47
2:E:793:THR:O	2:E:796:ARG:HG2	2.14	0.47
2:G:445:ALA:HA	2:G:1110:VAL:HG21	1.97	0.47
2:G:624:PHE:HZ	2:G:631:VAL:HG11	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:680:VAL:O	2:G:684:VAL:HG23	2.15	0.47
2:H:212:ARG:HH12	2:H:1204:PRO:HD3	1.80	0.47
2:H:202:LEU:HD22	2:M:1101:ARG:CZ	2.44	0.47
2:H:518:VAL:HG11	2:H:567:PRO:HG3	1.97	0.47
2:H:931:ILE:HD11	2:H:952:LEU:HA	1.97	0.47
2:K:1268:THR:HA	2:K:1271:ILE:HG22	1.96	0.47
2:L:1066:LYS:HG3	2:L:1075:TYR:HE1	1.79	0.47
2:M:892:VAL:HG11	2:M:979:PHE:CE1	2.49	0.47
2:N:1172:CYS:SG	2:N:1173:GLU:N	2.85	0.47
2:O:791:ALA:O	2:O:1000:ASN:ND2	2.48	0.47
2:O:1041:THR:N	2:O:1104:THR:OG1	2.35	0.47
2:P:212:ARG:NH2	2:P:1204:PRO:HD3	2.27	0.47
2:P:710:LEU:HB2	2:P:1012:LEU:HD23	1.95	0.47
2:E:886:VAL:HG22	3:U:66:ARG:HH12	1.79	0.47
1:8:71:PRO:HG3	1:8:217:TRP:CD2	2.50	0.47
1:9:60:LEU:HD23	1:9:228:ILE:HD13	1.96	0.47
2:A:623:ALA:O	2:A:627:ILE:HG12	2.15	0.47
2:A:934:SER:HB2	2:A:952:LEU:HD21	1.97	0.47
2:C:122:LYS:HA	2:C:1082:ASN:HB3	1.97	0.47
2:D:846:ILE:O	2:D:849:GLN:HG2	2.15	0.47
2:E:698:LEU:O	2:E:700:GLU:N	2.48	0.47
2:F:1133:HIS:NE2	2:G:477:ARG:HD3	2.30	0.47
2:F:677:LEU:O	2:F:681:LEU:HG	2.15	0.47
2:F:457:PRO:HG3	2:F:907:LEU:HG	1.96	0.47
2:F:417:ASN:ND2	2:G:403:GLU:O	2.48	0.47
2:G:451:HIS:HE2	2:G:1117:PHE:HB2	1.80	0.47
2:H:727:MET:HB2	2:H:730:VAL:HB	1.96	0.47
2:I:1285:TYR:CG	2:I:1317:LEU:HD12	2.50	0.47
2:I:79:LYS:O	2:I:304:ASN:HA	2.15	0.47
2:J:1162:ALA:HB3	2:K:1213:ALA:HB2	1.97	0.47
2:J:77:ALA:HB2	2:J:1057:VAL:HG23	1.97	0.47
2:K:1139:ARG:HD2	2:K:1140:PRO:HD2	1.96	0.47
2:L:1065:THR:HG22	2:L:1076:HIS:O	2.14	0.47
2:M:651:TYR:HA	2:M:654:VAL:HG12	1.97	0.47
2:M:931:ILE:HD11	2:M:952:LEU:HA	1.97	0.47
2:N:756:ARG:HG3	2:N:767:PHE:CZ	2.50	0.47
2:O:534:HIS:HD2	2:O:537:PHE:HD1	1.62	0.47
2:P:693:LEU:HB3	2:P:1022:LEU:HD11	1.97	0.47
2:P:1238:CYS:HG	2:P:1240:SER:HG	1.59	0.47
2:P:236:ARG:NH1	2:P:286:LEU:O	2.47	0.47
2:P:451:HIS:ND1	2:P:453:VAL:HG12	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:105:HIS:O	1:0:131:SER:OG	2.32	0.47
2:A:1337:LEU:HD12	2:A:1338:LYS:HG3	1.96	0.47
2:A:534:HIS:ND1	2:A:535:PRO:HD2	2.30	0.47
2:B:396:PRO:HB3	2:B:1186:PHE:CE1	2.50	0.47
2:D:1033:ALA:HB3	2:D:1176:LEU:HB2	1.97	0.47
2:E:568:GLY:HA2	2:E:571:HIS:HD2	1.80	0.47
2:E:9:LEU:HD23	2:F:316:ILE:HD12	1.97	0.47
2:G:1109:ARG:NH2	2:G:1169:LYS:HB3	2.30	0.47
2:H:1247:ARG:HG3	2:H:1269:GLU:HG3	1.96	0.47
2:H:514:GLN:HE22	2:H:562:PRO:HA	1.79	0.47
2:H:86:LEU:HB3	2:M:50:PHE:CE2	2.50	0.47
2:I:455:HIS:NE2	2:I:1017:PRO:HB3	2.29	0.47
2:I:732:VAL:O	2:I:739:LEU:HB3	2.14	0.47
2:J:963:PHE:HB3	2:J:966:TYR:CD2	2.48	0.47
2:K:1247:ARG:HD2	2:K:1269:GLU:HG2	1.97	0.47
2:K:556:ILE:HG21	2:K:986:TRP:CE3	2.50	0.47
2:K:124:PRO:HD2	2:L:104:ALA:HB2	1.96	0.47
2:H:216:LEU:HD23	2:M:1165:VAL:HG23	1.96	0.47
2:M:63:TRP:CH2	2:M:165:LYS:HB3	2.45	0.47
2:M:963:PHE:HB3	2:M:966:TYR:CD2	2.48	0.47
2:N:693:LEU:HB3	2:N:1022:LEU:HD11	1.97	0.47
2:O:1035:THR:OG1	2:O:1174:LEU:O	2.31	0.47
2:P:311:ASN:HB3	2:P:321:ILE:HD12	1.97	0.47
1:1:49:ARG:HE	1:1:238:GLU:HB3	1.80	0.46
1:2:83:ARG:HD2	1:2:206:THR:HG21	1.97	0.46
1:8:9:GLN:OE1	1:8:11:ARG:NH2	2.48	0.46
1:8:178:MET:HB2	1:8:213:VAL:HG13	1.97	0.46
2:A:989:SER:OG	2:A:990:PRO:HD3	2.14	0.46
2:C:451:HIS:ND1	2:C:453:VAL:HG12	2.30	0.46
2:C:628:ARG:HH22	2:C:663:ASP:HB3	1.80	0.46
2:C:973:PHE:CD1	2:C:974:PRO:HD2	2.50	0.46
2:E:1347:SER:HB3	2:E:1357:GLY:H	1.79	0.46
2:E:211:GLN:O	2:E:215:ILE:HG12	2.15	0.46
2:E:884:GLN:O	3:U:66:ARG:NH2	2.47	0.46
2:F:300:ALA:HB3	2:F:351:SER:HB2	1.96	0.46
2:F:94:HIS:HA	2:F:115:MET:HG2	1.97	0.46
2:H:341:ASN:HD21	2:H:346:GLN:HA	1.80	0.46
2:I:359:VAL:HG12	2:I:368:ILE:HD13	1.97	0.46
2:J:559:GLY:HA3	2:J:1011:MET:HB3	1.97	0.46
2:J:1124:HIS:HE1	2:J:1126:GLU:HB3	1.80	0.46
2:K:1196:ALA:HB3	2:K:1222:ALA:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:227:LEU:HD21	2:L:391:LEU:HD21	1.96	0.46
2:M:211:GLN:O	2:M:215:ILE:HG12	2.14	0.46
2:M:475:MET:SD	2:M:1218:ARG:NH2	2.87	0.46
2:M:653:LEU:O	2:M:657:ILE:HG12	2.14	0.46
2:M:630:PHE:HE1	2:M:875:ALA:HB1	1.79	0.46
2:N:1101:ARG:HH21	2:O:202:LEU:HD12	1.80	0.46
2:O:451:HIS:ND1	2:O:453:VAL:HG12	2.30	0.46
2:O:747:ARG:NH2	2:O:918:TYR:OH	2.48	0.46
2:P:537:PHE:CE1	2:P:554:PRO:HB3	2.49	0.46
2:P:73:ALA:HA	2:P:261:TYR:CZ	2.50	0.46
1:5:88:ALA:HB2	1:5:109:LEU:HD22	1.97	0.46
2:A:1306:GLY:O	2:A:1309:GLN:HG2	2.15	0.46
2:B:555:ARG:HH11	2:B:560:ASN:HB3	1.78	0.46
2:D:19:PHE:HZ	2:D:23:VAL:HG23	1.80	0.46
2:E:767:PHE:O	2:E:918:TYR:OH	2.22	0.46
2:F:189:PRO:HD3	2:F:1286:LEU:HD21	1.97	0.46
2:F:801:GLY:HA3	2:F:890:VAL:HB	1.96	0.46
2:H:1255:ASN:HD22	2:H:1258:PHE:HE2	1.64	0.46
2:H:322:LEU:HD11	2:H:325:PHE:HD1	1.80	0.46
2:H:807:LEU:HD13	2:H:933:TYR:HD2	1.80	0.46
2:J:43:PRO:HA	2:J:46:TYR:HD2	1.80	0.46
2:J:451:HIS:ND1	2:J:453:VAL:HG12	2.30	0.46
2:K:419:THR:HG21	2:L:404:ASP:HA	1.97	0.46
2:K:718:PRO:HD2	2:K:785:TYR:HB2	1.97	0.46
2:L:208:ASN:HB2	2:L:211:GLN:HG2	1.96	0.46
2:M:1245:ASN:O	2:M:1249:ARG:N	2.38	0.46
2:M:234:ARG:HH22	2:M:282:ILE:HD13	1.80	0.46
1:4:94:TYR:CD1	1:4:95:PRO:HD2	2.49	0.46
1:8:188:LEU:HD11	1:8:205:TYR:HB2	1.97	0.46
2:A:1359:ILE:HG13	2:A:1360:ILE:N	2.30	0.46
2:A:257:ASN:HB2	2:A:260:THR:HG22	1.98	0.46
2:A:861:VAL:HG11	2:A:876:CYS:HB3	1.97	0.46
2:B:900:ASP:O	2:B:904:ARG:N	2.48	0.46
2:C:1244:TYR:HB2	2:C:1266:PHE:CD2	2.47	0.46
2:E:446:LEU:HD11	2:E:1021:VAL:HG22	1.97	0.46
2:E:786:LEU:HG	2:E:987:LEU:HD11	1.97	0.46
2:E:846:ILE:HA	2:E:849:GLN:HG2	1.97	0.46
2:F:1342:GLY:H	2:F:1364:GLN:HG2	1.80	0.46
2:F:312:ALA:O	2:F:316:ILE:HG12	2.15	0.46
2:F:849:GLN:HG3	2:F:872:LEU:HD12	1.97	0.46
2:H:397:VAL:HG13	2:H:1034:LEU:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:418:ASP:O	2:H:419:THR:OG1	2.30	0.46
2:I:130:GLU:HB3	2:I:1074:THR:HG22	1.97	0.46
2:I:1172:CYS:SG	2:I:1173:GLU:N	2.86	0.46
2:J:651:TYR:CD2	2:J:781:GLN:HG2	2.50	0.46
2:K:450:CYS:O	2:K:1122:TYR:OH	2.29	0.46
2:K:627:ILE:HD11	2:K:882:ALA:HB2	1.97	0.46
2:L:1174:LEU:HD11	2:L:1262:CYS:SG	2.56	0.46
2:K:1165:VAL:HG11	2:L:1223:GLN:H	1.79	0.46
2:N:1250:GLU:HA	2:N:1254:TYR:HE1	1.80	0.46
2:O:1060:ASN:ND2	2:O:1080:ASN:OD1	2.45	0.46
2:O:64:VAL:HG21	2:O:173:ARG:HE	1.81	0.46
2:P:1286:LEU:O	2:P:1290:LYS:NZ	2.48	0.46
2:A:1041:THR:HG21	2:A:1103:ARG:NH2	2.30	0.46
2:A:1194:GLY:HA3	2:A:1229:HIS:HB2	1.97	0.46
2:A:523:LYS:HG3	2:A:525:GLY:H	1.80	0.46
2:A:638:MET:SD	2:A:864:VAL:HG13	2.55	0.46
2:B:1212:LYS:O	2:B:1216:ASP:HB3	2.16	0.46
2:B:429:TYR:CE2	2:B:1330:LEU:HG	2.50	0.46
2:B:1326:SER:O	2:B:1355:VAL:HA	2.15	0.46
2:E:1111:GLN:NE2	2:E:1112:ASP:OD1	2.48	0.46
2:E:1112:ASP:OD1	2:E:1112:ASP:N	2.47	0.46
2:E:232:ARG:HH21	2:E:1366:MET:CE	2.29	0.46
2:E:229:LEU:O	2:E:231:ASN:N	2.43	0.46
2:E:635:ILE:HG22	2:E:670:LEU:HD13	1.97	0.46
2:F:212:ARG:NH2	2:F:1204:PRO:HD3	2.22	0.46
2:F:802:LEU:HD23	2:F:934:SER:HA	1.98	0.46
2:F:87:THR:HG22	2:F:88:THR:HG23	1.97	0.46
2:G:212:ARG:HD3	2:G:1200:LEU:O	2.16	0.46
2:G:751:VAL:O	2:G:752:SER:OG	2.32	0.46
2:H:1065:THR:CG2	2:H:1076:HIS:HB2	2.45	0.46
2:H:651:TYR:HB2	2:H:784:PHE:CD2	2.50	0.46
2:H:127:ILE:HD11	2:I:101:ALA:HA	1.97	0.46
2:I:272:VAL:HG23	2:I:368:ILE:HB	1.96	0.46
2:K:820:MET:HG3	2:K:877:ARG:HE	1.79	0.46
2:L:927:PRO:HD2	2:L:952:LEU:HD11	1.96	0.46
2:N:626:LEU:HD22	2:N:881:LEU:HD13	1.97	0.46
2:O:299:PRO:HA	2:O:352:LEU:HD23	1.97	0.46
2:P:633:ARG:O	2:P:637:ASN:ND2	2.45	0.46
1:3:235:LEU:HD23	1:3:254:LEU:HD21	1.98	0.46
1:7:23:LEU:HD22	1:7:65:GLU:HB3	1.97	0.46
2:A:1240:SER:HB2	2:A:1266:PHE:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:600:THR:OG1	2:C:645:LEU:O	2.26	0.46
2:E:359:VAL:HG12	2:E:368:ILE:HD13	1.96	0.46
2:E:684:VAL:O	2:E:687:ILE:HG22	2.15	0.46
2:E:940:HIS:HD2	2:E:942:PHE:HB2	1.80	0.46
2:F:497:HIS:HA	2:F:500:ARG:NH1	2.31	0.46
2:G:481:CYS:O	2:G:543:GLN:HB2	2.15	0.46
2:H:279:VAL:HG22	2:H:1098:TYR:HB3	1.97	0.46
2:H:451:HIS:ND1	2:H:453:VAL:HG12	2.31	0.46
2:H:713:HIS:HA	2:H:778:TRP:HE1	1.80	0.46
2:I:537:PHE:CE2	2:I:554:PRO:HB3	2.51	0.46
2:J:188:PRO:HG3	2:J:1090:TYR:CD2	2.51	0.46
2:I:1297:THR:O	2:J:210:ILE:HD11	2.16	0.46
2:J:207:LEU:HD13	2:J:212:ARG:HD3	1.98	0.46
2:J:127:ILE:HD11	2:K:102:SER:H	1.81	0.46
2:L:710:LEU:HB2	2:L:1012:LEU:HD23	1.97	0.46
2:L:707:VAL:HG22	2:L:1022:LEU:HD23	1.97	0.46
1:4:227:ARG:O	1:4:231:ARG:HG2	2.16	0.46
1:8:160:LYS:HG3	1:8:163:GLU:H	1.81	0.46
1:9:20:LEU:HB3	1:9:65:GLU:HG3	1.97	0.46
2:A:1187:LYS:NZ	2:A:1347:SER:HB2	2.30	0.46
2:A:451:HIS:HD2	2:A:453:VAL:HG12	1.79	0.46
2:B:444:ASP:O	2:B:1110:VAL:HG21	2.16	0.46
2:B:283:ILE:HG22	2:B:291:ILE:HD11	1.97	0.46
2:C:199:ASN:O	2:C:202:LEU:HG	2.15	0.46
2:D:538:ASP:N	2:D:553:THR:O	2.47	0.46
2:D:552:CYS:SG	2:D:907:LEU:HD11	2.56	0.46
2:E:1065:THR:HG22	2:E:1076:HIS:O	2.16	0.46
2:E:254:ILE:HG13	2:E:1087:GLY:HA2	1.98	0.46
2:E:432:ASN:OD1	2:E:438:GLN:NE2	2.46	0.46
2:F:261:TYR:HB3	2:F:269:ILE:HD12	1.98	0.46
2:F:668:PRO:HB3	2:G:642:ARG:HA	1.97	0.46
2:G:575:THR:O	2:G:579:MET:HG2	2.15	0.46
2:I:1193:ARG:HG2	2:I:1234:SER:HA	1.98	0.46
2:J:1068:GLU:HG2	2:J:1070:ASP:H	1.80	0.46
2:K:738:PRO:HG3	2:K:896:ARG:HH22	1.81	0.46
2:J:173:ARG:NH2	2:K:98:PRO:HB2	2.30	0.46
2:L:565:LEU:HD22	2:L:1177:THR:HG21	1.98	0.46
2:N:657:ILE:HD12	2:N:661:LEU:HD22	1.96	0.46
2:N:633:ARG:HH11	2:N:870:THR:HG21	1.80	0.46
2:P:209:ARG:HH22	2:P:1203:ASP:HB2	1.81	0.46
2:P:1285:TYR:CG	2:P:1317:LEU:HD12	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:263:THR:HG23	2:P:294:GLU:HG2	1.97	0.46
2:P:507:ARG:HD3	2:P:512:MET:CE	2.46	0.46
2:P:867:ASP:OD1	2:P:868:ALA:N	2.48	0.46
3:S:29:PRO:HG2	3:S:32:ILE:HG12	1.96	0.46
1:5:178:MET:HB2	1:5:213:VAL:HG13	1.97	0.46
2:B:1244:TYR:HB2	2:B:1266:PHE:HD2	1.81	0.46
2:B:184:LEU:HD11	2:B:384:PRO:HB2	1.96	0.46
2:D:1164:THR:O	2:E:213:SER:HB3	2.16	0.46
2:D:1341:ALA:O	2:D:1364:GLN:HG2	2.15	0.46
2:D:812:PHE:HB2	3:T:65:LEU:HD21	1.97	0.46
2:I:1124:HIS:HE1	2:I:1126:GLU:HB3	1.80	0.46
2:I:1250:GLU:HA	2:I:1254:TYR:HE1	1.80	0.46
2:J:391:LEU:HD23	2:J:1322:LEU:HD12	1.97	0.46
2:I:1165:VAL:HG23	2:J:216:LEU:HD23	1.97	0.46
2:K:534:HIS:CD2	2:K:537:PHE:HD1	2.33	0.46
2:L:341:ASN:OD1	2:L:342:ASP:N	2.49	0.46
2:L:57:PHE:HD2	2:M:93:PHE:HE1	1.62	0.46
2:M:947:THR:HG22	2:M:967:HIS:NE2	2.31	0.46
2:N:174:GLY:HA3	2:O:101:ALA:HB3	1.98	0.46
2:O:1026:ALA:HB3	2:O:1028:ILE:HG12	1.96	0.46
2:A:1195:ARG:NH1	2:A:1227:ALA:O	2.49	0.46
2:B:600:THR:HB	2:B:644:LEU:HB2	1.98	0.46
2:B:664:GLY:O	2:B:666:LEU:N	2.47	0.46
2:C:31:MET:HB2	2:M:1279:PHE:CD2	2.50	0.46
2:E:1132:ARG:O	2:E:1136:GLY:N	2.48	0.46
2:E:485:GLN:OE1	2:E:913:ARG:NH1	2.42	0.46
2:E:552:CYS:SG	2:E:907:LEU:HD11	2.56	0.46
2:H:391:LEU:HD23	2:H:1322:LEU:HD12	1.97	0.46
2:H:324:ASP:HB3	2:H:327:SER:HB3	1.98	0.46
2:H:617:VAL:HG12	2:H:619:GLY:H	1.80	0.46
2:I:421:ARG:HD3	2:J:405:ARG:HH21	1.81	0.46
2:J:277:ALA:HB2	2:J:371:ASN:ND2	2.30	0.46
2:J:553:THR:HG22	2:J:988:ARG:HH21	1.81	0.46
2:K:1105:ASP:OD1	2:K:1166:HIS:HB2	2.15	0.46
2:K:1165:VAL:HB	2:L:1222:ALA:HB1	1.97	0.46
2:K:76:HIS:HB3	2:K:1056:SER:OG	2.16	0.46
2:M:1235:GLN:HB2	2:M:1238:CYS:HB3	1.98	0.46
2:M:417:ASN:O	2:M:422:ASN:ND2	2.49	0.46
2:O:1193:ARG:HG2	2:O:1234:SER:HA	1.98	0.46
1:0:243:LEU:HD12	3:T:74:ARG:HE	1.80	0.46
2:B:1165:VAL:HG12	2:C:1222:ALA:HB1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1344:PHE:H	2:B:1364:GLN:NE2	2.13	0.46
2:B:388:ASN:HB2	2:B:1311:ILE:HG12	1.97	0.46
2:B:536:PHE:HA	2:B:1015:ILE:HD12	1.98	0.46
2:B:770:ASP:HB3	2:B:772:ARG:HG2	1.97	0.46
2:B:817:PHE:HZ	2:B:857:LEU:HD21	1.81	0.46
2:C:698:LEU:O	2:C:700:GLU:N	2.49	0.46
2:D:1161:ALA:HB3	2:D:1164:THR:HG22	1.96	0.46
2:D:188:PRO:HB3	2:D:1282:ILE:HD11	1.98	0.46
2:E:1132:ARG:NH2	2:E:1140:PRO:HD3	2.31	0.46
2:E:1365:SER:O	2:E:1369:ASN:N	2.48	0.46
2:E:963:PHE:HB3	2:E:966:TYR:HD2	1.80	0.46
2:F:707:VAL:HA	2:F:1019:SER:HB2	1.97	0.46
2:F:1176:LEU:HD22	2:F:1230:ASN:HB3	1.97	0.46
2:F:275:SER:HB2	2:F:280:MET:HG2	1.96	0.46
2:F:748:HIS:HB3	2:F:756:ARG:HD2	1.97	0.46
2:H:188:PRO:HA	2:H:1286:LEU:HD21	1.97	0.46
2:I:469:PRO:HB3	2:I:479:LEU:HD11	1.98	0.46
2:I:556:ILE:HG21	2:I:986:TRP:CZ3	2.49	0.46
2:J:698:LEU:HB2	2:J:706:TYR:HE2	1.80	0.46
2:L:207:LEU:HD13	2:L:212:ARG:HB3	1.97	0.46
2:L:653:LEU:O	2:L:657:ILE:HG12	2.16	0.46
2:O:534:HIS:CD2	2:O:537:PHE:HD1	2.33	0.46
2:P:1348:GLU:O	2:P:1355:VAL:N	2.44	0.46
1:O:140:VAL:HG21	1:O:158:HIS:NE2	2.30	0.46
2:B:1184:ASN:OD1	2:G:437:VAL:HB	2.16	0.46
2:B:1206:ASP:OD2	2:B:1209:ALA:HB3	2.16	0.46
2:C:1069:ARG:HB2	2:C:1072:SER:O	2.15	0.46
2:C:779:THR:HA	2:C:782:LYS:HE3	1.98	0.46
2:D:624:PHE:HZ	2:D:657:ILE:HD13	1.81	0.46
2:G:199:ASN:HD22	2:G:215:ILE:HD11	1.81	0.46
2:G:83:LEU:O	2:G:86:LEU:HG	2.16	0.46
2:I:1106:MET:SD	2:I:1363:GLN:NE2	2.79	0.46
2:I:387:ARG:HG2	2:I:1309:GLN:HG2	1.98	0.46
2:K:127:ILE:HG21	2:K:167:THR:HG23	1.98	0.46
2:K:417:ASN:OD1	2:K:418:ASP:N	2.49	0.46
2:K:445:ALA:HA	2:K:1110:VAL:HG21	1.98	0.46
2:K:565:LEU:HD22	2:K:1177:THR:HG21	1.97	0.46
2:L:452:PRO:HG3	2:L:1122:TYR:CE2	2.51	0.46
2:M:120:SER:HB3	2:M:1084:VAL:HG12	1.97	0.46
2:P:1037:VAL:HG13	2:P:1174:LEU:HD13	1.98	0.46
2:P:900:ASP:O	2:P:904:ARG:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:25:VAL:HA	3:W:57:LYS:HD2	1.96	0.46
1:7:36:LYS:O	1:7:40:LYS:HG2	2.16	0.45
1:9:64:ARG:HD2	1:9:268:LEU:HD21	1.97	0.45
2:B:1004:SER:HA	2:B:1007:THR:HG22	1.98	0.45
2:B:1033:ALA:HB3	2:B:1176:LEU:HB2	1.99	0.45
2:B:617:VAL:HG12	2:B:619:GLY:H	1.81	0.45
2:B:710:LEU:HD11	2:B:783:VAL:HG22	1.98	0.45
2:C:1101:ARG:CZ	2:D:214:ASN:HB3	2.46	0.45
2:D:556:ILE:HG21	2:D:986:TRP:CZ3	2.51	0.45
2:D:708:ASN:HB3	2:D:711:HIS:CD2	2.51	0.45
2:F:536:PHE:CD1	2:F:1015:ILE:HB	2.51	0.45
2:F:507:ARG:NH1	2:F:968:ARG:HH21	2.14	0.45
2:G:391:LEU:HB2	2:G:1042:PHE:HE2	1.81	0.45
2:I:1215:TYR:O	2:I:1217:HIS:ND1	2.49	0.45
2:I:631:VAL:HG13	2:I:661:LEU:HD21	1.98	0.45
2:I:78:ILE:O	2:I:1058:ILE:HA	2.16	0.45
2:K:798:CYS:HB3	2:K:948:ILE:HD11	1.97	0.45
2:L:433:ARG:O	2:L:1367:LEU:HD21	2.15	0.45
2:M:1190:ASN:OD1	2:M:1191:ASN:N	2.48	0.45
2:M:670:LEU:HA	2:M:673:HIS:HD2	1.81	0.45
2:N:211:GLN:O	2:N:215:ILE:HG12	2.15	0.45
2:N:94:HIS:HE2	2:N:113:THR:HG23	1.81	0.45
2:N:1168:GLN:HG3	2:O:210:ILE:HD11	1.97	0.45
2:O:698:LEU:HB2	2:O:706:TYR:HE2	1.80	0.45
2:O:915:HIS:NE2	2:O:978:ALA:O	2.49	0.45
2:P:1044:VAL:HG11	2:P:1096:VAL:HG13	1.98	0.45
2:P:807:LEU:HD13	2:P:933:TYR:HD2	1.81	0.45
2:G:757:LEU:HD22	3:W:62:LEU:HD23	1.98	0.45
1:3:252:ASN:HA	1:3:255:LYS:HG2	1.98	0.45
2:A:1119:MET:SD	2:A:1143:LEU:HD23	2.56	0.45
2:A:469:PRO:HB3	2:A:479:LEU:HD13	1.97	0.45
2:A:816:ALA:O	2:A:877:ARG:NH2	2.37	0.45
2:B:448:THR:HG21	2:B:1173:GLU:HB3	1.99	0.45
2:B:794:ASN:ND2	2:B:998:CYS:O	2.49	0.45
2:C:631:VAL:HG23	2:C:647:PHE:HE2	1.81	0.45
2:C:941:ARG:HH22	2:C:992:SER:H	1.64	0.45
2:D:93:PHE:HB2	2:D:116:VAL:HG23	1.98	0.45
2:D:1176:LEU:HD23	2:D:1230:ASN:ND2	2.32	0.45
2:D:1287:LEU:HA	2:D:1290:LYS:NZ	2.32	0.45
2:F:182:THR:HG21	2:F:1083:THR:HG21	1.97	0.45
2:H:1327:THR:HG21	2:H:1333:MET:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:419:THR:HG22	2:H:421:ARG:N	2.27	0.45
2:I:230:LEU:HB2	2:I:1098:TYR:HB2	1.98	0.45
2:I:431:LEU:HA	2:I:436:ALA:O	2.16	0.45
2:I:583:ARG:NH2	2:J:572:GLU:OE2	2.49	0.45
2:J:394:PHE:HB3	2:J:1037:VAL:HG12	1.98	0.45
2:J:79:LYS:N	2:J:303:GLY:O	2.39	0.45
2:K:534:HIS:ND1	2:K:1239:LEU:HB3	2.30	0.45
2:K:1244:TYR:HA	2:K:1249:ARG:HH21	1.81	0.45
2:K:653:LEU:O	2:K:657:ILE:HG12	2.16	0.45
2:N:513:LYS:HE2	2:N:528:THR:HB	1.98	0.45
2:N:553:THR:HG23	2:N:910:PHE:CE1	2.50	0.45
1:O:77:LEU:HD21	1:O:114:PHE:CG	2.51	0.45
2:A:522:TYR:HE2	2:A:1180:THR:HA	1.82	0.45
2:D:1296:ASP:OD1	2:D:1297:THR:N	2.49	0.45
2:F:1245:ASN:HB2	2:F:1248:HIS:HB3	1.98	0.45
2:F:243:LEU:HD23	2:F:246:LEU:HD12	1.99	0.45
2:A:45:ARG:N	2:G:59:ASN:HB2	2.31	0.45
2:G:733:VAL:HG12	2:G:738:PRO:HA	1.98	0.45
2:G:963:PHE:HB3	2:G:966:TYR:HD2	1.81	0.45
2:H:1035:THR:HG21	2:H:1176:LEU:HD12	1.98	0.45
2:K:647:PHE:HD1	2:K:653:LEU:HD13	1.81	0.45
2:L:451:HIS:ND1	2:L:453:VAL:HG12	2.31	0.45
2:M:1214:ILE:HD13	2:M:1268:THR:HG23	1.97	0.45
2:M:892:VAL:HG11	2:M:979:PHE:HE1	1.82	0.45
2:E:313:VAL:HG22	2:N:332:LEU:HD12	1.98	0.45
2:N:628:ARG:HG3	2:N:661:LEU:HD12	1.99	0.45
2:O:1362:LEU:O	2:O:1366:MET:HG2	2.16	0.45
2:O:196:LEU:O	2:O:200:ALA:N	2.48	0.45
2:O:994:TYR:OH	2:O:1007:THR:HG21	2.16	0.45
2:P:106:LEU:HD12	2:P:107:PRO:HD2	1.99	0.45
2:P:1290:LYS:HB3	2:P:1310:LEU:HB3	1.98	0.45
2:P:311:ASN:O	2:P:314:THR:OG1	2.25	0.45
1:3:77:LEU:HD21	1:3:114:PHE:CG	2.52	0.45
2:A:389:VAL:HG22	2:A:1310:LEU:HG	1.98	0.45
2:A:739:LEU:HD22	2:A:766:LEU:HD21	1.98	0.45
2:B:199:ASN:ND2	2:B:211:GLN:OE1	2.49	0.45
2:C:21:THR:O	2:C:25:THR:HB	2.17	0.45
2:C:574:ARG:O	2:C:578:ILE:HG12	2.17	0.45
2:D:1285:TYR:HA	2:D:1289:ALA:HB3	1.99	0.45
2:E:698:LEU:HD11	2:E:1127:VAL:HA	1.97	0.45
2:G:1362:LEU:O	2:G:1366:MET:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1332:LEU:HD13	2:J:1355:VAL:HG23	1.98	0.45
2:J:478:LEU:HD11	2:J:509:VAL:HG13	1.98	0.45
2:J:760:MET:HB3	2:J:889:HIS:HD2	1.80	0.45
2:J:485:GLN:NE2	2:J:913:ARG:HH12	2.15	0.45
2:N:294:GLU:O	2:N:357:MET:N	2.47	0.45
3:Z:29:PRO:HG2	3:Z:32:ILE:HG12	1.98	0.45
1:2:251:ARG:HG2	1:2:255:LYS:HE3	1.98	0.45
1:6:22:HIS:HB2	1:6:26:LYS:HE2	1.98	0.45
1:5:115:ASP:HA	1:6:93:THR:HG21	1.97	0.45
2:A:452:PRO:HG3	2:A:1122:TYR:CE2	2.52	0.45
2:A:274:VAL:HB	2:A:1048:LEU:HD23	1.98	0.45
2:A:397:VAL:HG12	2:A:1034:LEU:O	2.15	0.45
2:B:1026:ALA:HB3	2:B:1028:ILE:HG12	1.98	0.45
2:B:536:PHE:O	2:B:555:ARG:N	2.50	0.45
2:C:651:TYR:HB2	2:C:784:PHE:CG	2.52	0.45
2:D:1101:ARG:HD3	2:E:199:ASN:OD1	2.17	0.45
2:D:1331:ALA:HB2	2:E:407:TYR:CD2	2.51	0.45
2:E:556:ILE:O	2:E:1015:ILE:N	2.47	0.45
2:F:395:PHE:CZ	2:F:430:LEU:HD11	2.52	0.45
2:G:537:PHE:CD1	2:G:554:PRO:HA	2.50	0.45
2:H:812:PHE:HB2	3:X:65:LEU:HD21	1.98	0.45
2:I:698:LEU:HD11	2:I:1130:TRP:CD1	2.52	0.45
2:J:343:SER:OG	2:J:344:LEU:N	2.48	0.45
2:J:861:VAL:HG11	2:J:876:CYS:HB3	1.99	0.45
2:L:223:MET:O	2:L:227:LEU:HB2	2.17	0.45
2:L:627:ILE:HD11	2:L:882:ALA:HB2	1.99	0.45
2:N:1101:ARG:HH21	2:O:202:LEU:CD1	2.29	0.45
2:N:867:ASP:OD1	2:N:868:ALA:N	2.49	0.45
2:O:399:LEU:HD23	2:O:1033:ALA:HB1	1.99	0.45
2:O:173:ARG:HB3	2:P:100:VAL:HG23	1.98	0.45
2:P:1148:ILE:HD13	2:P:1151:LEU:HD12	1.98	0.45
2:P:1325:LEU:HD22	2:P:1344:PHE:HD2	1.81	0.45
2:P:791:ALA:HB3	2:P:1005:VAL:HG22	1.98	0.45
2:P:873:LEU:HD23	2:P:877:ARG:HH22	1.82	0.45
3:S:25:VAL:HA	3:S:57:LYS:HD2	1.99	0.45
2:A:1344:PHE:CD2	2:A:1364:GLN:HB2	2.52	0.45
2:B:1017:PRO:O	2:B:1021:VAL:HG23	2.16	0.45
2:C:1026:ALA:HB3	2:C:1028:ILE:HD12	1.99	0.45
2:D:1211:THR:HA	2:D:1214:ILE:HG22	1.99	0.45
2:F:211:GLN:O	2:F:215:ILE:HG12	2.17	0.45
2:F:491:ALA:O	2:F:495:ILE:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:461:LEU:HD13	2:F:552:CYS:HB2	1.99	0.45
2:G:153:ASN:O	2:G:157:MET:HG2	2.16	0.45
2:G:522:TYR:O	2:G:1227:ALA:HB3	2.17	0.45
2:I:1168:GLN:HG2	2:I:1298:ASP:O	2.16	0.45
2:I:240:LEU:HB2	2:I:287:LEU:HD21	1.97	0.45
2:I:457:PRO:HG3	2:I:537:PHE:CD2	2.52	0.45
2:J:1336:LYS:HE3	2:J:1355:VAL:HG11	1.98	0.45
2:K:375:VAL:HG23	2:K:376:TYR:CD2	2.52	0.45
2:K:8:GLU:HB3	2:O:115:MET:HE1	1.99	0.45
2:J:59:ASN:HB2	2:K:95:VAL:HG22	1.98	0.45
2:D:7:LEU:HB2	2:N:92:LEU:HD23	1.99	0.45
2:O:661:LEU:HD23	2:O:666:LEU:HD11	1.98	0.45
2:O:867:ASP:OD1	2:O:868:ALA:N	2.50	0.45
2:P:280:MET:O	2:P:284:MET:HG2	2.16	0.45
1:4:274:ASP:O	1:4:277:ILE:HG22	2.16	0.45
1:7:170:ASN:O	1:7:174:VAL:HG23	2.17	0.45
2:A:431:LEU:HB2	2:A:1363:GLN:NE2	2.31	0.45
2:B:596:LEU:HD21	2:B:645:LEU:H	1.82	0.45
2:C:866:THR:OG1	2:C:872:LEU:HD23	2.17	0.45
2:D:1150:MET:O	2:D:1154:GLY:N	2.50	0.45
2:D:682:ARG:HA	2:D:685:THR:HG22	1.99	0.45
2:E:212:ARG:NH2	2:E:1202:VAL:O	2.50	0.45
2:E:537:PHE:HA	2:E:554:PRO:HA	1.98	0.45
2:E:796:ARG:HA	2:E:945:ASN:ND2	2.30	0.45
2:G:269:ILE:HD13	2:G:368:ILE:HD11	1.99	0.45
2:G:388:ASN:HB3	2:G:1041:THR:HG23	1.98	0.45
2:F:672:PHE:HZ	2:G:643:GLN:H	1.65	0.45
2:H:450:CYS:SG	2:H:1131:ILE:HD12	2.57	0.45
2:H:537:PHE:CE1	2:H:554:PRO:HB3	2.52	0.45
2:H:615:VAL:HG12	2:H:804:LEU:HD11	1.99	0.45
2:I:1177:THR:HG22	2:I:1232:TRP:CZ3	2.51	0.45
2:K:212:ARG:HH12	2:K:1204:PRO:HD3	1.81	0.45
2:M:195:THR:HG21	2:M:215:ILE:HG23	1.98	0.45
2:N:583:ARG:HH12	2:O:999:PRO:HD3	1.81	0.45
2:O:134:ALA:O	2:O:137:THR:HG22	2.16	0.45
2:O:209:ARG:O	2:O:212:ARG:HG2	2.16	0.45
2:B:1177:THR:OG1	2:B:1180:THR:OG1	2.35	0.45
2:B:1233:ALA:HA	2:B:1240:SER:OG	2.16	0.45
2:B:618:HIS:CE1	2:B:887:GLY:HA3	2.52	0.45
2:C:590:TYR:HA	2:C:676:ASN:HD21	1.81	0.45
2:C:941:ARG:NH2	2:C:988:ARG:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:556:ILE:HG21	2:D:986:TRP:HZ3	1.82	0.45
2:E:1115:ARG:HG3	2:E:1158:GLU:OE2	2.16	0.45
2:E:311:ASN:HD21	2:E:325:PHE:HB2	1.81	0.45
2:G:184:LEU:HD23	2:G:1048:LEU:HD11	1.99	0.45
2:H:224:LEU:HD22	2:H:1360:ILE:HD11	1.97	0.45
2:H:435:ARG:H	2:H:1367:LEU:HD21	1.81	0.45
2:H:890:VAL:HA	2:H:919:ASN:HB3	1.99	0.45
2:I:1246:THR:HA	2:I:1249:ARG:HB3	1.98	0.45
2:K:1183:VAL:HG12	2:K:1187:LYS:HE2	1.99	0.45
2:K:611:TYR:HH	2:K:925:THR:HG1	1.57	0.45
2:O:450:CYS:SG	2:O:1131:ILE:HD12	2.57	0.45
1:1:274:ASP:O	1:1:277:ILE:HG22	2.17	0.45
1:3:98:ASP:N	1:3:98:ASP:OD1	2.50	0.45
1:7:73:LEU:O	1:7:77:LEU:N	2.42	0.45
2:B:1138:GLU:HG2	2:C:473:PRO:HG2	1.99	0.45
2:C:495:ILE:HG23	2:C:496:PRO:HD3	1.99	0.45
2:C:610:CYS:HB2	2:C:649:HIS:CE1	2.52	0.45
2:D:451:HIS:CD2	2:D:1113:LEU:HB3	2.52	0.45
2:D:211:GLN:O	2:D:215:ILE:HG12	2.17	0.45
2:D:638:MET:SD	2:D:864:VAL:HG13	2.57	0.45
2:D:884:GLN:O	3:T:66:ARG:NH2	2.50	0.45
2:E:794:ASN:HB3	2:E:996:ALA:HA	1.98	0.45
2:F:1127:VAL:O	2:F:1131:ILE:HG12	2.17	0.45
2:F:392:THR:HA	2:F:1039:THR:HA	1.98	0.45
2:F:63:TRP:CH2	2:F:165:LYS:HD2	2.50	0.45
2:B:202:LEU:HD22	2:G:378:ASN:HA	1.99	0.45
2:J:603:SER:HB3	2:J:605:ASN:OD1	2.17	0.45
2:K:524:VAL:HA	2:K:1227:ALA:HB2	1.99	0.45
2:K:1164:THR:O	2:L:213:SER:HB3	2.17	0.45
2:L:698:LEU:O	2:L:700:GLU:N	2.49	0.45
2:L:92:LEU:HB3	2:N:7:LEU:HD22	1.99	0.45
2:K:23:VAL:HG21	2:O:95:VAL:HG11	1.98	0.45
1:3:119:ARG:HA	1:3:214:ARG:HH21	1.81	0.45
1:8:120:HIS:O	1:8:124:ILE:HG12	2.17	0.45
2:A:1190:ASN:OD1	2:A:1191:ASN:N	2.49	0.45
2:B:890:VAL:HA	2:B:919:ASN:HB2	1.98	0.45
2:C:291:ILE:HG12	2:C:360:ILE:HG22	1.99	0.45
2:C:515:ASP:HA	2:C:993:ARG:NH2	2.31	0.45
2:C:811:LEU:HD11	2:C:857:LEU:HD13	1.98	0.45
2:D:1035:THR:HG22	2:D:1186:PHE:CE1	2.51	0.45
2:E:1233:ALA:HA	2:E:1240:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1330:LEU:HD13	2:F:1183:VAL:HG11	1.98	0.45
2:F:1105:ASP:OD2	2:F:1107:GLY:HA2	2.17	0.45
2:F:702:PRO:HG3	2:G:964:PRO:HG2	1.98	0.45
2:H:128:PRO:HA	2:H:1075:TYR:O	2.17	0.45
2:H:63:TRP:HZ3	2:H:169:ASP:HB2	1.81	0.45
2:I:723:LEU:HB2	2:I:771:TYR:CE1	2.52	0.45
2:I:537:PHE:CZ	2:I:906:GLY:HA3	2.52	0.45
2:J:1348:GLU:O	2:J:1355:VAL:N	2.50	0.45
2:J:388:ASN:N	2:J:388:ASN:OD1	2.50	0.45
2:K:1039:THR:HG21	2:K:1259:TYR:HE2	1.81	0.45
2:K:42:ASP:O	2:K:45:ARG:NH1	2.50	0.45
2:K:7:LEU:HD22	2:O:92:LEU:HD23	1.99	0.45
2:L:1103:ARG:HB2	2:M:210:ILE:HG21	1.99	0.45
2:L:1039:THR:HG21	2:L:1259:TYR:HE2	1.81	0.45
2:L:661:LEU:HD23	2:L:666:LEU:HD21	1.99	0.45
2:P:209:ARG:O	2:P:212:ARG:HG2	2.17	0.45
2:P:732:VAL:HG22	2:P:895:VAL:HG22	1.98	0.45
1:3:181:VAL:HG12	1:3:183:PRO:HD3	1.99	0.44
1:4:186:LEU:HD22	1:4:202:LYS:HG2	1.98	0.44
1:5:235:LEU:HD23	1:5:254:LEU:HD21	1.99	0.44
1:9:50:THR:OG1	1:9:283:PRO:O	2.26	0.44
2:A:568:GLY:HA2	2:A:571:HIS:HD2	1.82	0.44
2:A:64:VAL:HG21	2:A:375:VAL:HG12	1.99	0.44
2:B:551:LEU:O	2:B:983:TYR:OH	2.35	0.44
2:C:212:ARG:NH2	2:C:1203:ASP:HA	2.31	0.44
2:C:797:ALA:O	2:C:943:TYR:HA	2.17	0.44
2:D:134:ALA:HA	2:D:137:THR:HG22	1.98	0.44
2:D:2:GLU:OE2	2:N:90:LYS:NZ	2.49	0.44
2:E:450:CYS:O	2:E:1122:TYR:OH	2.34	0.44
2:F:859:GLU:HB3	2:F:929:THR:HG21	1.98	0.44
2:G:966:TYR:CD1	2:G:974:PRO:HD3	2.52	0.44
2:H:1285:TYR:HA	2:H:1289:ALA:HB3	1.97	0.44
2:H:299:PRO:HA	2:H:352:LEU:HD23	1.99	0.44
2:H:343:SER:OG	2:H:344:LEU:N	2.50	0.44
2:H:818:LEU:HD23	3:X:32:ILE:HG13	1.99	0.44
2:J:701:GLU:HG3	2:J:714:ARG:HH12	1.82	0.44
2:J:739:LEU:HD22	2:J:766:LEU:HD21	1.99	0.44
2:K:1041:THR:N	2:K:1104:THR:OG1	2.49	0.44
2:K:747:ARG:NH2	2:K:767:PHE:O	2.47	0.44
2:L:79:LYS:N	2:L:303:GLY:O	2.41	0.44
2:O:1193:ARG:NH2	2:O:1197:SER:HB3	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:416:LEU:HD13	2:O:422:ASN:HB3	1.98	0.44
2:P:212:ARG:HH12	2:P:1204:PRO:HD3	1.82	0.44
2:P:565:LEU:HD22	2:P:1177:THR:HG21	2.00	0.44
1:I:148:ILE:HG13	2:D:480:GLU:HG2	1.98	0.44
2:A:339:LEU:N	2:A:340:PRO:HD2	2.32	0.44
2:A:495:ILE:CG2	2:A:496:PRO:HD3	2.48	0.44
2:B:1133:HIS:NE2	2:C:477:ARG:HD3	2.33	0.44
2:D:400:TYR:HB3	2:D:1178:PRO:HB2	1.99	0.44
2:D:647:PHE:CD1	2:D:653:LEU:HD23	2.51	0.44
2:D:850:ARG:HA	2:D:853:VAL:HG22	1.99	0.44
2:F:457:PRO:HB3	2:F:537:PHE:CD2	2.53	0.44
2:G:1291:ASP:N	2:G:1311:ILE:O	2.46	0.44
2:H:901:HIS:HB3	2:H:1124:HIS:HB2	1.99	0.44
2:H:63:TRP:CH2	2:H:165:LYS:HB3	2.52	0.44
2:J:554:PRO:HD3	2:J:907:LEU:HD12	1.99	0.44
2:K:1163:ALA:HB2	2:L:1202:VAL:HG22	1.99	0.44
2:L:1057:VAL:HA	2:L:1082:ASN:O	2.17	0.44
2:L:264:SER:OG	2:L:294:GLU:OE2	2.27	0.44
2:M:976:PRO:HD2	2:M:979:PHE:HD2	1.82	0.44
2:M:940:HIS:HE1	2:M:987:LEU:HD12	1.82	0.44
2:O:128:PRO:HB3	2:O:1076:HIS:CE1	2.53	0.44
2:O:195:THR:HG23	2:O:218:SER:HB3	1.99	0.44
2:P:212:ARG:HD3	2:P:1200:LEU:O	2.16	0.44
2:O:668:PRO:HB2	2:P:643:GLN:HG3	1.98	0.44
1:5:173:GLY:HA2	1:5:176:ARG:HG2	1.99	0.44
2:B:461:LEU:HD13	2:B:552:CYS:HB2	2.00	0.44
2:B:770:ASP:OD1	2:B:771:TYR:N	2.50	0.44
2:C:1325:LEU:HA	2:C:1356:VAL:O	2.17	0.44
2:C:202:LEU:HD12	2:C:203:ALA:CB	2.48	0.44
2:C:457:PRO:HG3	2:C:907:LEU:HG	1.98	0.44
2:C:892:VAL:HG11	2:C:979:PHE:CE1	2.52	0.44
2:D:212:ARG:NH1	2:D:1204:PRO:HD3	2.32	0.44
2:E:556:ILE:O	2:E:1015:ILE:HG12	2.17	0.44
2:F:538:ASP:HB2	2:F:555:ARG:HG3	2.00	0.44
2:G:1044:VAL:HG11	2:G:1096:VAL:HG22	1.98	0.44
2:G:130:GLU:HA	2:G:1074:THR:HA	2.00	0.44
2:H:693:LEU:HB3	2:H:1022:LEU:HD11	1.98	0.44
2:H:1296:ASP:OD1	2:H:1297:THR:N	2.50	0.44
2:H:408:THR:HG23	2:H:1350:HIS:ND1	2.33	0.44
2:H:965:HIS:HB2	2:H:968:ARG:HH12	1.82	0.44
2:I:1066:LYS:HG3	2:I:1075:TYR:HE1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:188:PRO:HG3	2:I:1090:TYR:CD2	2.53	0.44
2:J:946:PRO:HG3	2:J:973:PHE:HD1	1.83	0.44
2:K:597:PHE:HE1	2:K:648:ALA:HB1	1.82	0.44
2:L:1165:VAL:HG23	2:M:216:LEU:HD23	1.99	0.44
2:M:375:VAL:HG23	2:M:376:TYR:CD2	2.53	0.44
2:M:716:TRP:CE2	2:M:895:VAL:HG11	2.52	0.44
2:P:431:LEU:HD23	2:P:436:ALA:O	2.17	0.44
3:Y:32:ILE:HG23	3:Y:37:HIS:CD2	2.52	0.44
1:5:246:ASP:HB2	1:5:278:TYR:HA	1.98	0.44
2:B:681:LEU:HB3	2:B:780:LEU:HD22	2.00	0.44
2:C:1122:TYR:HB2	2:C:1128:ASP:HB2	1.99	0.44
2:C:712:ASP:O	2:C:782:LYS:NZ	2.44	0.44
2:D:438:GLN:HG3	2:D:1108:VAL:HG23	1.99	0.44
2:D:543:GLN:HB2	2:D:548:THR:HG22	1.99	0.44
2:E:800:LEU:HD22	2:E:952:LEU:HD21	2.00	0.44
2:F:1177:THR:HG1	2:F:1180:THR:HG1	1.61	0.44
2:G:1115:ARG:NH2	2:G:1158:GLU:OE2	2.49	0.44
2:H:1182:ASP:HA	2:H:1186:PHE:HD2	1.81	0.44
2:I:1215:TYR:CD1	2:I:1236:ALA:HB2	2.53	0.44
2:I:1364:GLN:O	2:I:1368:PHE:HB3	2.17	0.44
2:I:136:LEU:HG	2:I:140:ARG:HH12	1.81	0.44
2:K:455:HIS:NE2	2:K:1017:PRO:HB3	2.33	0.44
2:L:1058:ILE:HD11	2:L:1082:ASN:HD22	1.82	0.44
2:L:130:GLU:HB3	2:L:1074:THR:HG22	2.00	0.44
2:K:583:ARG:HH12	2:L:998:CYS:HA	1.83	0.44
2:M:1193:ARG:HH12	2:M:1195:ARG:HD3	1.82	0.44
2:L:1027:HIS:CE1	2:M:520:ASP:HB2	2.50	0.44
2:N:1202:VAL:HG11	2:N:1210:ALA:HB2	1.98	0.44
2:O:1290:LYS:HG2	2:O:1312:GLU:HA	1.99	0.44
2:P:1060:ASN:O	2:P:1079:GLN:NE2	2.30	0.44
2:P:594:LEU:HA	2:P:597:PHE:HB3	1.99	0.44
2:P:708:ASN:ND2	2:P:710:LEU:HB3	2.32	0.44
3:U:26:LEU:HB3	3:U:28:LEU:HG	2.00	0.44
1:7:98:ASP:N	1:7:98:ASP:OD1	2.51	0.44
2:A:1310:LEU:HD12	2:A:1313:ASN:HD21	1.81	0.44
2:A:1325:LEU:HA	2:A:1356:VAL:O	2.18	0.44
2:B:147:ILE:O	2:B:151:ILE:HG12	2.18	0.44
2:B:257:ASN:N	2:B:257:ASN:OD1	2.50	0.44
2:B:227:LEU:HD21	2:B:391:LEU:HD21	1.99	0.44
2:C:1177:THR:HG22	2:C:1232:TRP:HZ3	1.82	0.44
2:C:224:LEU:HD22	2:C:1360:ILE:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:22:HIS:CD2	2:C:23:VAL:H	2.35	0.44
2:C:446:LEU:HD11	2:C:1021:VAL:HG22	1.99	0.44
2:D:1245:ASN:O	2:D:1249:ARG:N	2.41	0.44
2:D:724:PRO:HD3	2:D:778:TRP:CZ3	2.53	0.44
2:E:255:LEU:HD11	2:E:1053:SER:HB2	1.99	0.44
2:E:1244:TYR:HB2	2:E:1266:PHE:CD2	2.53	0.44
2:E:1285:TYR:CG	2:E:1317:LEU:HD12	2.52	0.44
2:E:1332:LEU:O	2:E:1336:LYS:HG2	2.17	0.44
2:E:495:ILE:HG23	2:E:496:PRO:HD3	1.99	0.44
2:F:359:VAL:HG12	2:F:368:ILE:HD13	2.00	0.44
2:G:945:ASN:ND2	2:G:947:THR:OG1	2.50	0.44
2:H:1124:HIS:HE1	2:H:1126:GLU:HB3	1.82	0.44
2:H:627:ILE:O	2:H:631:VAL:HG12	2.17	0.44
2:I:895:VAL:HB	2:I:914:GLN:HB2	1.98	0.44
2:J:1214:ILE:HD13	2:J:1268:THR:HG23	2.00	0.44
2:J:400:TYR:HB3	2:J:1178:PRO:HB2	1.98	0.44
2:K:1004:SER:HA	2:K:1007:THR:HG22	2.00	0.44
2:K:359:VAL:HG12	2:K:368:ILE:HD13	2.00	0.44
2:J:725:ARG:NH2	2:K:961:THR:O	2.51	0.44
2:L:295:THR:HA	2:L:356:SER:HA	1.99	0.44
2:L:533:LEU:HD12	2:L:539:PHE:CG	2.52	0.44
2:M:271:GLY:HA2	2:M:1051:GLY:HA2	2.00	0.44
2:H:643:GLN:HG3	2:M:668:PRO:HB2	1.99	0.44
2:N:527:ILE:HG22	2:N:1218:ARG:HH22	1.81	0.44
2:N:628:ARG:HA	2:N:631:VAL:HG12	1.98	0.44
2:N:66:PHE:HD1	2:N:176:ILE:HD13	1.82	0.44
2:O:87:THR:HG22	2:O:88:THR:HG23	2.00	0.44
2:P:1196:ALA:HB3	2:P:1222:ALA:HB3	1.99	0.44
2:A:607:PRO:HG2	2:A:610:CYS:HB2	2.00	0.44
2:B:760:MET:O	2:B:761:ASP:HB2	2.17	0.44
2:C:382:LYS:HE3	2:C:386:GLU:O	2.16	0.44
2:D:495:ILE:CG2	2:D:496:PRO:HD3	2.48	0.44
2:E:1177:THR:HG22	2:E:1232:TRP:CZ3	2.52	0.44
2:G:426:THR:HG22	2:G:427:THR:HG23	1.98	0.44
2:G:622:ASP:HA	2:G:625:LEU:HD13	1.98	0.44
2:G:947:THR:HG22	2:G:967:HIS:NE2	2.33	0.44
2:H:945:ASN:ND2	2:H:947:THR:OG1	2.50	0.44
2:I:424:LEU:HD11	2:I:573:LEU:HB3	1.99	0.44
2:J:1109:ARG:HH21	2:K:1225:PHE:HB3	1.82	0.44
2:J:1195:ARG:NE	2:J:1213:ALA:O	2.45	0.44
2:J:209:ARG:HG3	2:J:212:ARG:HH12	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:341:ASN:OD1	2:J:342:ASP:N	2.51	0.44
2:K:535:PRO:O	2:K:555:ARG:HD2	2.18	0.44
2:K:424:LEU:HD11	2:K:573:LEU:HB3	1.99	0.44
2:N:1165:VAL:O	2:O:213:SER:HB2	2.18	0.44
2:O:1065:THR:HG22	2:O:1076:HIS:O	2.17	0.44
2:O:732:VAL:O	2:O:739:LEU:HB3	2.18	0.44
2:P:1064:VAL:HG22	2:P:1077:VAL:HG12	1.98	0.44
2:P:732:VAL:O	2:P:739:LEU:HB3	2.18	0.44
2:P:716:TRP:NE1	2:P:895:VAL:HG11	2.32	0.44
1:0:142:GLU:HG2	2:N:738:PRO:HG2	1.98	0.44
1:7:43:GLU:O	1:7:45:ARG:N	2.46	0.44
2:A:1070:ASP:O	2:A:1072:SER:N	2.51	0.44
2:A:478:LEU:HD11	2:A:530:TYR:OH	2.17	0.44
2:A:478:LEU:HD12	2:A:479:LEU:N	2.33	0.44
2:A:722:HIS:CD2	2:A:769:ASP:HB3	2.52	0.44
2:A:926:ALA:HB1	2:A:952:LEU:HD13	2.00	0.44
2:B:437:VAL:HB	2:C:1184:ASN:OD1	2.18	0.44
2:C:277:ALA:O	2:C:281:GLN:HG2	2.17	0.44
2:C:518:VAL:HG23	2:C:519:THR:H	1.82	0.44
2:C:747:ARG:HH12	2:C:888:GLU:HG2	1.82	0.44
2:D:1109:ARG:HE	2:D:1169:LYS:HB3	1.82	0.44
2:D:1164:THR:HG21	2:D:1298:ASP:HB2	1.99	0.44
2:E:1118:PRO:HG3	2:E:1150:MET:SD	2.58	0.44
2:E:134:ALA:O	2:E:137:THR:HG22	2.17	0.44
2:F:54:PHE:HE2	2:G:1084:VAL:HG11	1.82	0.44
2:F:565:LEU:O	2:F:1178:PRO:HG2	2.18	0.44
2:F:716:TRP:HE3	2:F:916:VAL:HG21	1.82	0.44
2:G:63:TRP:HH2	2:G:165:LYS:HB3	1.83	0.44
2:H:210:ILE:HG21	2:M:1103:ARG:HB3	2.00	0.44
2:I:667:PRO:HG2	2:I:670:LEU:HD12	2.00	0.44
2:I:970:ASP:N	2:I:970:ASP:OD1	2.51	0.44
2:K:628:ARG:HA	2:K:631:VAL:HG12	1.99	0.44
2:L:387:ARG:HB2	2:L:1046:MET:HE3	2.00	0.44
2:L:800:LEU:HA	2:L:937:VAL:HG12	2.00	0.44
2:O:1183:VAL:HA	2:O:1187:LYS:HE2	1.99	0.44
2:O:535:PRO:HD3	2:O:1232:TRP:CD1	2.52	0.44
2:P:253:SER:HA	2:P:1087:GLY:HA2	1.99	0.44
2:P:518:VAL:HB	2:P:1179:VAL:HG11	2.00	0.44
2:P:895:VAL:HB	2:P:914:GLN:HB2	1.99	0.44
1:2:63:TYR:HE1	1:2:221:GLU:HG3	1.83	0.44
1:4:178:MET:HB2	1:4:213:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:16:LEU:HD13	1:9:58:LEU:HD21	1.99	0.44
2:A:329:LYS:O	2:A:333:THR:HG23	2.18	0.44
2:A:395:PHE:CZ	2:A:430:LEU:HD11	2.53	0.44
2:B:498:PHE:CE2	2:B:976:PRO:HA	2.52	0.44
2:C:1278:LEU:HA	2:C:1281:THR:HG22	1.99	0.44
2:B:53:ILE:HG22	2:C:321:ILE:O	2.18	0.44
2:D:1195:ARG:NH2	2:D:1216:ASP:O	2.50	0.44
2:D:243:LEU:HA	2:D:246:LEU:HD12	1.99	0.44
2:D:298:ALA:HB3	2:D:355:LEU:HD21	2.00	0.44
2:F:536:PHE:HB3	2:F:1015:ILE:HD13	1.99	0.44
2:G:83:LEU:HD11	2:G:1058:ILE:HG13	2.00	0.44
2:G:1182:ASP:N	2:G:1182:ASP:OD1	2.51	0.44
2:G:317:SER:OG	2:G:318:TYR:N	2.50	0.44
2:G:513:LYS:NZ	2:G:532:GLU:OE2	2.35	0.44
1:4:253:ILE:HD11	2:H:751:VAL:HG21	2.00	0.44
2:I:73:ALA:HA	2:I:261:TYR:CZ	2.53	0.44
2:J:277:ALA:HB2	2:J:371:ASN:HD21	1.83	0.44
2:J:455:HIS:CE1	2:J:1017:PRO:HB3	2.52	0.44
2:J:537:PHE:HB3	2:J:552:CYS:SG	2.57	0.44
2:J:534:HIS:HD2	2:J:537:PHE:HD1	1.65	0.44
2:M:698:LEU:HD11	2:M:1130:TRP:CD1	2.52	0.44
2:N:1189:PRO:HB3	2:N:1322:LEU:HD23	2.00	0.44
2:N:653:LEU:O	2:N:657:ILE:HG12	2.18	0.44
2:N:698:LEU:HD13	2:N:703:LEU:HD13	2.00	0.44
2:O:125:ILE:CG1	2:O:1079:GLN:HB3	2.48	0.44
2:O:556:ILE:HG21	2:O:986:TRP:CZ3	2.43	0.44
2:P:1217:HIS:ND1	2:P:1228:THR:OG1	2.51	0.44
1:2:67:ARG:HA	1:2:217:TRP:HH2	1.83	0.44
2:C:904:ARG:HB3	2:C:1123:ARG:HH21	1.83	0.44
2:C:209:ARG:O	2:C:212:ARG:HG2	2.18	0.44
2:C:435:ARG:CG	2:C:1367:LEU:HD13	2.48	0.44
2:D:1004:SER:HA	2:D:1007:THR:HG22	1.99	0.44
2:D:1155:SER:HB2	2:D:1257:LYS:HB2	1.98	0.44
2:D:446:LEU:HA	2:D:449:LEU:HB2	1.99	0.44
2:D:7:LEU:HD12	2:N:92:LEU:HD23	2.00	0.44
2:F:725:ARG:HH11	2:F:771:TYR:HB2	1.83	0.44
2:G:850:ARG:HA	2:G:853:VAL:HG22	2.00	0.44
2:H:83:LEU:HD22	2:H:1080:ASN:HB3	2.00	0.44
2:H:760:MET:HB3	2:H:889:HIS:ND1	2.33	0.44
2:I:880:PHE:HZ	3:Y:68:VAL:HB	1.83	0.44
2:J:1183:VAL:HG12	2:J:1187:LYS:HE2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1164:THR:CG2	2:J:209:ARG:HG2	2.48	0.44
2:J:537:PHE:CE2	2:J:554:PRO:HB3	2.53	0.44
2:K:1058:ILE:O	2:K:1081:ILE:HA	2.18	0.44
2:L:450:CYS:SG	2:L:1131:ILE:HD12	2.58	0.44
2:K:439:LYS:NZ	2:L:519:THR:OG1	2.50	0.44
2:M:269:ILE:HA	2:M:366:THR:OG1	2.18	0.44
2:D:39:TYR:HB3	2:N:110:ARG:HE	1.83	0.44
2:N:1177:THR:HG22	2:N:1232:TRP:CZ3	2.53	0.44
2:L:1277:THR:HB	2:N:29:GLU:HA	1.99	0.44
2:P:188:PRO:HB3	2:P:1282:ILE:HD13	2.00	0.44
2:P:487:PRO:O	2:P:494:ARG:NH2	2.51	0.44
2:P:798:CYS:HB3	2:P:948:ILE:HG21	2.00	0.44
3:Y:29:PRO:HG2	3:Y:32:ILE:HG12	2.00	0.44
1:5:194:THR:HB	1:5:197:VAL:HG23	2.00	0.43
1:7:8:LEU:HG	1:7:54:ASN:HD21	1.83	0.43
2:A:687:ILE:HD11	2:A:1006:MET:SD	2.57	0.43
2:A:534:HIS:CD2	2:A:536:PHE:H	2.36	0.43
2:A:65:TYR:HA	2:A:172:GLU:OE1	2.18	0.43
2:A:812:PHE:HA	2:A:817:PHE:HD2	1.83	0.43
2:B:926:ALA:HB3	2:B:952:LEU:HD11	2.00	0.43
2:C:707:VAL:HG12	2:C:1019:SER:HA	2.00	0.43
2:D:147:ILE:O	2:D:151:ILE:HG12	2.17	0.43
2:E:647:PHE:CD1	2:E:653:LEU:HD13	2.53	0.43
2:F:391:LEU:HB2	2:F:1042:PHE:HE2	1.83	0.43
2:F:472:GLU:OE2	2:F:1218:ARG:HG3	2.18	0.43
2:F:79:LYS:N	2:F:303:GLY:O	2.51	0.43
2:F:420:VAL:HG23	2:F:585:ARG:NH1	2.30	0.43
2:G:1150:MET:O	2:G:1152:THR:N	2.51	0.43
2:G:1263:ALA:HB1	2:G:1267:ASN:ND2	2.32	0.43
2:G:534:HIS:HB2	2:G:539:PHE:HE2	1.83	0.43
2:H:756:ARG:HG3	2:H:767:PHE:CZ	2.53	0.43
2:K:209:ARG:O	2:K:212:ARG:HG2	2.17	0.43
2:K:495:ILE:HG23	2:K:496:PRO:HD3	1.99	0.43
2:K:611:TYR:CZ	2:K:923:VAL:HG13	2.53	0.43
2:L:651:TYR:HB2	2:L:784:PHE:CG	2.53	0.43
2:L:748:HIS:ND1	2:L:753:ASP:OD1	2.51	0.43
2:L:756:ARG:HG3	2:L:767:PHE:CE1	2.53	0.43
2:M:425:PRO:HB3	2:M:1328:THR:CG2	2.45	0.43
2:M:534:HIS:HD2	2:M:537:PHE:HD2	1.64	0.43
2:M:572:GLU:OE2	2:M:994:TYR:OH	2.30	0.43
2:N:1233:ALA:HA	2:N:1240:SER:OG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:493:ARG:NH1	2:O:935:LEU:HD11	2.32	0.43
2:P:1221:ASP:OD1	2:P:1222:ALA:N	2.51	0.43
1:4:73:LEU:O	1:4:77:LEU:N	2.49	0.43
2:B:1044:VAL:HG11	2:B:1096:VAL:HG13	2.00	0.43
2:C:127:ILE:HD13	2:C:127:ILE:HA	1.78	0.43
2:C:261:TYR:HA	2:C:297:SER:O	2.17	0.43
2:D:624:PHE:HE2	2:D:660:HIS:HB2	1.84	0.43
2:E:1060:ASN:OD1	2:E:1079:GLN:NE2	2.51	0.43
2:E:597:PHE:HA	2:E:600:THR:HG22	1.99	0.43
2:E:716:TRP:HZ2	2:E:730:VAL:HG11	1.84	0.43
2:F:1104:THR:HG23	2:F:1106:MET:H	1.82	0.43
2:B:403:GLU:O	2:G:417:ASN:ND2	2.51	0.43
2:H:662:ALA:HB1	2:I:605:ASN:ND2	2.33	0.43
2:I:1233:ALA:HA	2:I:1240:SER:OG	2.17	0.43
2:J:299:PRO:HA	2:J:352:LEU:HA	1.98	0.43
2:J:805:LYS:H	2:J:889:HIS:CE1	2.36	0.43
2:K:394:PHE:HB3	2:K:1037:VAL:HG12	2.00	0.43
2:L:311:ASN:HB3	2:L:321:ILE:HD12	1.99	0.43
2:L:475:MET:HE1	2:L:527:ILE:O	2.18	0.43
2:N:1290:LYS:HG2	2:N:1312:GLU:HA	1.99	0.43
2:N:269:ILE:HA	2:N:366:THR:OG1	2.18	0.43
2:N:388:ASN:OD1	2:N:388:ASN:N	2.51	0.43
2:N:36:ARG:NH2	2:N:44:GLU:OE1	2.50	0.43
2:N:733:VAL:HB	2:N:735:ASP:O	2.17	0.43
2:O:1165:VAL:O	2:P:213:SER:HB2	2.18	0.43
2:O:973:PHE:HB2	2:O:974:PRO:HD2	2.00	0.43
2:P:904:ARG:O	2:P:1123:ARG:NH2	2.50	0.43
2:P:894:GLU:HG2	2:P:915:HIS:CE1	2.52	0.43
1:3:120:HIS:O	1:3:124:ILE:HG12	2.18	0.43
1:8:274:ASP:O	1:8:277:ILE:HG22	2.18	0.43
2:A:97:VAL:H	2:A:112:THR:HB	1.83	0.43
2:A:703:LEU:HA	2:A:706:TYR:HD2	1.83	0.43
2:A:807:LEU:O	2:A:811:LEU:HG	2.18	0.43
2:B:1168:GLN:HG2	2:B:1298:ASP:O	2.18	0.43
2:B:638:MET:O	2:B:642:ARG:N	2.51	0.43
2:C:397:VAL:HG13	2:C:1034:LEU:HB2	2.01	0.43
2:C:596:LEU:HD11	2:C:644:LEU:HA	2.01	0.43
2:D:440:ILE:HD13	2:D:1108:VAL:HG11	2.00	0.43
2:D:761:ASP:OD1	2:D:889:HIS:ND1	2.39	0.43
2:D:770:ASP:O	2:D:772:ARG:N	2.52	0.43
2:D:715:LEU:HB3	2:D:782:LYS:HZ1	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:716:TRP:CE2	2:E:895:VAL:HG11	2.53	0.43
2:E:861:VAL:HG12	2:E:872:LEU:HD22	1.99	0.43
2:G:372:LEU:HD12	2:G:385:LEU:HD11	2.00	0.43
2:B:641:THR:O	2:G:668:PRO:HB3	2.19	0.43
2:G:747:ARG:HD3	2:G:749:HIS:NE2	2.32	0.43
2:H:213:SER:HB3	2:M:1165:VAL:O	2.17	0.43
2:H:716:TRP:CD1	2:H:778:TRP:HZ2	2.36	0.43
2:K:128:PRO:HG3	2:L:108:THR:HB	2.01	0.43
2:L:1190:ASN:OD1	2:L:1191:ASN:N	2.50	0.43
2:M:805:LYS:H	2:M:889:HIS:CE1	2.33	0.43
2:N:1279:PHE:O	2:N:1282:ILE:HG13	2.17	0.43
2:N:695:ASN:H	2:N:703:LEU:HD23	1.83	0.43
2:O:556:ILE:O	2:O:1015:ILE:HG13	2.18	0.43
2:O:910:PHE:HE1	2:O:984:HIS:HD1	1.66	0.43
2:P:1004:SER:O	2:P:1007:THR:HG22	2.17	0.43
2:P:760:MET:HB3	2:P:889:HIS:CD2	2.43	0.43
1:2:137:LYS:HB3	1:2:142:GLU:HB3	2.00	0.43
1:8:84:CYS:O	1:8:109:LEU:HD21	2.18	0.43
2:A:475:MET:C	2:A:478:LEU:HG	2.32	0.43
2:A:946:PRO:HG3	2:A:973:PHE:CD1	2.53	0.43
2:A:946:PRO:HG2	2:A:966:TYR:O	2.18	0.43
2:B:623:ALA:O	2:B:627:ILE:HG12	2.17	0.43
2:D:90:LYS:HE2	2:D:92:LEU:HD11	2.01	0.43
2:E:216:LEU:HD13	2:E:1200:LEU:HD12	2.00	0.43
2:D:695:ASN:ND2	2:E:507:ARG:HG3	2.28	0.43
2:F:693:LEU:HB3	2:F:1022:LEU:HD11	1.99	0.43
2:G:440:ILE:HD13	2:G:1108:VAL:HB	2.00	0.43
2:H:455:HIS:NE2	2:H:1017:PRO:HB3	2.33	0.43
2:L:294:GLU:O	2:L:357:MET:N	2.43	0.43
2:L:495:ILE:CG2	2:L:496:PRO:HD3	2.48	0.43
2:M:247:ALA:HB1	2:M:365:LYS:HD3	2.00	0.43
2:N:1060:ASN:O	2:N:1079:GLN:NE2	2.33	0.43
2:O:1037:VAL:HG21	2:O:1262:CYS:HB2	1.99	0.43
2:O:199:ASN:HD22	2:O:215:ILE:HD13	1.83	0.43
2:A:611:TYR:OH	2:A:924:VAL:N	2.42	0.43
2:A:688:SER:HB3	2:A:711:HIS:NE2	2.34	0.43
2:A:960:VAL:HG12	2:A:967:HIS:CE1	2.53	0.43
2:B:435:ARG:H	2:B:1367:LEU:HD11	1.84	0.43
2:B:797:ALA:O	2:B:943:TYR:HA	2.17	0.43
2:C:128:PRO:HA	2:C:1075:TYR:O	2.19	0.43
2:C:272:VAL:HG23	2:C:368:ILE:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:714:ARG:NH1	2:C:900:ASP:OD1	2.51	0.43
2:C:815:PRO:HA	2:C:818:LEU:HB3	2.00	0.43
2:D:695:ASN:H	2:D:703:LEU:HD23	1.83	0.43
2:F:455:HIS:CE1	2:F:1017:PRO:HG3	2.54	0.43
2:F:188:PRO:HA	2:F:1286:LEU:HD21	1.99	0.43
2:F:558:ILE:HG12	2:F:574:ARG:NH2	2.33	0.43
2:F:867:ASP:OD1	2:F:868:ALA:N	2.50	0.43
2:F:987:LEU:HD22	2:F:991:PHE:CE2	2.53	0.43
2:G:731:GLN:HG3	2:G:896:ARG:HB2	2.00	0.43
2:G:867:ASP:HB2	2:G:870:THR:O	2.19	0.43
2:I:1039:THR:HG22	2:I:1261:PRO:HB3	2.01	0.43
2:I:1360:ILE:O	2:I:1362:LEU:N	2.48	0.43
2:I:196:LEU:O	2:I:200:ALA:N	2.52	0.43
2:J:522:TYR:OH	2:J:1179:VAL:HB	2.18	0.43
2:J:706:TYR:HB3	2:J:1018:VAL:HG23	2.00	0.43
2:K:606:TYR:HH	2:K:610:CYS:HG	1.62	0.43
2:L:1290:LYS:HG2	2:L:1312:GLU:HA	2.01	0.43
2:L:747:ARG:HB2	2:L:768:VAL:N	2.34	0.43
2:N:303:GLY:HA2	2:N:348:GLY:HA3	2.01	0.43
2:N:698:LEU:HD11	2:N:1130:TRP:CD1	2.53	0.43
2:O:606:TYR:HB3	2:O:925:THR:HG21	2.01	0.43
2:P:263:THR:HB	2:P:267:ALA:HB3	2.01	0.43
1:6:159:LEU:HD22	1:6:163:GLU:HG2	2.01	0.43
1:6:84:CYS:O	1:6:109:LEU:HD21	2.18	0.43
2:C:451:HIS:HE2	2:C:1117:PHE:HB2	1.84	0.43
2:C:195:THR:O	2:C:199:ASN:ND2	2.35	0.43
2:C:151:ILE:HD12	2:D:332:LEU:HG	2.01	0.43
2:F:600:THR:OG1	2:F:645:LEU:O	2.20	0.43
2:G:1001:VAL:HG13	2:G:1004:SER:H	1.84	0.43
2:G:433:ARG:HD3	2:G:1104:THR:O	2.18	0.43
2:H:445:ALA:HA	2:H:1110:VAL:HG21	2.01	0.43
2:J:1124:HIS:CE1	2:J:1126:GLU:HB3	2.54	0.43
2:J:597:PHE:HA	2:J:600:THR:HG22	2.01	0.43
2:J:608:GLU:CD	2:J:927:PRO:HA	2.39	0.43
2:K:433:ARG:NH2	2:K:1166:HIS:O	2.52	0.43
2:K:212:ARG:HD3	2:K:1200:LEU:O	2.18	0.43
2:K:495:ILE:CG2	2:K:496:PRO:HD3	2.48	0.43
2:K:597:PHE:HA	2:K:600:THR:HG22	2.00	0.43
2:L:1232:TRP:O	2:L:1238:CYS:HB2	2.19	0.43
2:M:556:ILE:O	2:M:1015:ILE:HG13	2.18	0.43
2:M:223:MET:O	2:M:227:LEU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:770:ASP:O	2:M:772:ARG:N	2.51	0.43
2:L:583:ARG:HH12	2:M:999:PRO:HD3	1.82	0.43
2:N:1164:THR:O	2:O:213:SER:HB3	2.18	0.43
2:O:791:ALA:HB3	2:O:1005:VAL:HG22	2.01	0.43
2:O:896:ARG:HA	2:O:912:SER:O	2.18	0.43
2:P:725:ARG:HE	2:P:775:ASP:H	1.65	0.43
2:A:1191:ASN:HD21	2:A:1193:ARG:NE	2.14	0.43
2:B:1122:TYR:CE2	2:B:1131:ILE:HG13	2.54	0.43
2:B:4:TRP:HZ2	2:B:34:ALA:HB1	1.84	0.43
2:C:606:TYR:OH	2:C:649:HIS:ND1	2.51	0.43
2:C:801:GLY:HA3	2:C:890:VAL:HG11	2.01	0.43
2:D:387:ARG:NH2	2:D:1310:LEU:O	2.52	0.43
2:D:1327:THR:HG22	2:D:1355:VAL:HG22	2.00	0.43
2:E:269:ILE:HD13	2:E:368:ILE:HD11	2.00	0.43
2:E:451:HIS:ND1	2:E:453:VAL:HG12	2.34	0.43
2:E:710:LEU:HB2	2:E:1012:LEU:HD23	2.00	0.43
2:F:1135:ALA:HB3	2:F:1137:VAL:HG23	1.99	0.43
2:F:535:PRO:O	2:F:555:ARG:HD2	2.18	0.43
2:F:400:TYR:HE1	2:F:573:LEU:HD12	1.83	0.43
2:F:73:ALA:HA	2:F:261:TYR:CZ	2.53	0.43
2:F:797:ALA:HA	2:F:924:VAL:HG22	1.99	0.43
2:F:966:TYR:CD1	2:F:974:PRO:HD3	2.54	0.43
2:H:210:ILE:O	2:H:214:ASN:ND2	2.52	0.43
2:H:300:ALA:HB3	2:H:351:SER:HB3	1.99	0.43
2:H:616:LEU:HD21	2:H:882:ALA:HB1	2.00	0.43
2:I:611:TYR:CE2	2:I:923:VAL:HG13	2.54	0.43
2:J:619:GLY:HA3	2:J:722:HIS:HE1	1.82	0.43
2:K:24:LYS:HZ1	2:O:97:VAL:HG21	1.83	0.43
2:L:254:ILE:HG23	2:N:15:ILE:HG21	2.00	0.43
2:N:1156:MET:SD	2:N:1294:ARG:NH1	2.91	0.43
2:O:137:THR:O	2:O:141:GLU:HB2	2.18	0.43
2:P:804:LEU:HA	2:P:807:LEU:HB3	2.00	0.43
1:O:32:GLU:OE1	1:O:223:LYS:NZ	2.43	0.43
2:A:793:THR:HG21	2:A:797:ALA:HB2	2.00	0.43
2:B:450:CYS:O	2:B:1122:TYR:OH	2.32	0.43
2:B:423:ALA:HB1	2:B:573:LEU:HD21	2.01	0.43
2:B:747:ARG:HE	2:B:768:VAL:HA	1.83	0.43
2:C:77:ALA:HA	2:C:1057:VAL:HG23	2.01	0.43
2:D:639:PHE:CD2	2:D:670:LEU:HD21	2.54	0.43
2:E:1242:VAL:HG12	2:E:1248:HIS:ND1	2.33	0.43
2:F:1182:ASP:HA	2:F:1186:PHE:HD2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1193:ARG:NH1	2:G:1195:ARG:HB2	2.33	0.43
2:H:77:ALA:HB1	2:H:302:TYR:CD2	2.53	0.43
2:H:480:GLU:OE1	2:H:506:PRO:HG2	2.18	0.43
2:I:606:TYR:HH	2:I:649:HIS:CG	2.37	0.43
2:J:757:LEU:HD22	3:Z:62:LEU:HD23	2.00	0.43
2:J:883:VAL:HG12	3:Z:66:ARG:HB3	2.01	0.43
2:K:633:ARG:O	2:K:637:ASN:HB2	2.19	0.43
2:N:684:VAL:HA	2:N:687:ILE:HG22	2.01	0.43
2:O:75:ALA:HB2	2:O:179:PHE:CE1	2.54	0.43
2:P:1349:THR:HA	2:P:1354:TYR:HA	2.01	0.43
2:P:552:CYS:SG	2:P:907:LEU:HD11	2.59	0.43
1:6:235:LEU:HD23	1:6:254:LEU:HD21	1.99	0.43
1:7:252:ASN:ND2	2:O:750:GLY:O	2.50	0.43
2:A:1124:HIS:HE1	2:A:1126:GLU:HB3	1.84	0.43
2:A:1333:MET:HG3	2:A:1337:LEU:HD23	2.00	0.43
2:A:891:LYS:HB2	2:A:918:TYR:HB3	2.00	0.43
2:B:1007:THR:O	2:B:1011:MET:HG3	2.19	0.43
2:C:1287:LEU:HD12	2:C:1288:ARG:HB2	2.01	0.43
2:C:1290:LYS:HG2	2:C:1312:GLU:HA	2.00	0.43
2:C:1187:LYS:NZ	2:C:1347:SER:HB2	2.34	0.43
2:C:202:LEU:HD12	2:C:203:ALA:N	2.33	0.43
2:C:22:HIS:CG	2:C:23:VAL:N	2.86	0.43
2:C:451:HIS:NE2	2:C:1117:PHE:HB2	2.34	0.43
2:C:534:HIS:CG	2:C:535:PRO:HD2	2.54	0.43
2:D:139:LEU:HD13	2:D:157:MET:HA	2.01	0.43
2:E:128:PRO:HB3	2:E:1076:HIS:CE1	2.53	0.43
2:D:1101:ARG:HE	2:E:202:LEU:HD13	1.84	0.43
2:F:388:ASN:HB2	2:F:1311:ILE:HG12	2.01	0.43
2:G:1294:ARG:HB3	2:G:1301:TYR:HB2	2.01	0.43
2:H:188:PRO:HD2	2:H:1092:SER:O	2.19	0.43
2:H:231:ASN:HD21	2:H:1366:MET:HB2	1.83	0.43
2:H:234:ARG:HH22	2:H:282:ILE:HD13	1.84	0.43
2:H:556:ILE:O	2:H:1015:ILE:HG13	2.18	0.43
2:I:617:VAL:HG12	2:I:619:GLY:N	2.34	0.43
2:K:998:CYS:HB2	2:K:1004:SER:OG	2.18	0.43
2:L:1193:ARG:HG2	2:L:1234:SER:HA	2.00	0.43
2:L:1224:THR:HB	2:L:1229:HIS:NE2	2.34	0.43
2:L:264:SER:O	2:L:265:SER:OG	2.34	0.43
2:M:393:PHE:N	2:M:1038:ARG:O	2.52	0.43
2:M:566:ALA:HB1	2:M:571:HIS:NE2	2.34	0.43
2:M:624:PHE:HZ	2:M:657:ILE:HD13	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1315:CYS:O	2:O:1319:GLN:N	2.44	0.43
2:O:600:THR:OG1	2:O:645:LEU:O	2.25	0.43
2:P:531:THR:HG23	2:P:539:PHE:O	2.19	0.43
3:Q:18:HIS:NE2	3:Q:48:THR:OG1	2.51	0.43
2:A:812:PHE:HB2	3:Q:65:LEU:HD21	2.00	0.43
1:1:269:GLU:O	1:1:273:GLU:HG2	2.19	0.43
1:2:70:ASN:OD1	1:2:71:PRO:HD2	2.19	0.43
1:3:84:CYS:O	1:3:109:LEU:HD21	2.19	0.43
1:7:182:LYS:HB3	1:7:184:LEU:HG	2.01	0.43
2:A:522:TYR:CE2	2:A:1180:THR:HA	2.54	0.43
2:A:1241:ASP:O	2:A:1245:ASN:HB3	2.19	0.43
2:B:1344:PHE:H	2:B:1364:GLN:HE21	1.66	0.43
2:B:698:LEU:O	2:B:706:TYR:OH	2.37	0.43
2:B:866:THR:HG21	2:B:872:LEU:HD23	1.99	0.43
2:C:707:VAL:HG11	2:C:1022:LEU:HD23	2.00	0.43
2:C:22:HIS:CD2	2:C:24:LYS:H	2.36	0.43
2:C:861:VAL:HG13	2:C:864:VAL:HB	2.01	0.43
2:D:1034:LEU:HD23	2:D:1173:GLU:HB3	2.01	0.43
2:D:947:THR:HG22	2:D:967:HIS:NE2	2.34	0.43
2:F:384:PRO:HA	2:F:1309:GLN:HE22	1.83	0.43
2:F:507:ARG:HH21	2:F:511:GLU:HB3	1.83	0.43
2:F:608:GLU:HG2	2:F:927:PRO:HA	2.01	0.43
2:G:1004:SER:O	2:G:1007:THR:HG22	2.19	0.43
2:G:470:PRO:HB2	2:G:475:MET:HG3	1.99	0.43
2:H:1010:ALA:HA	2:H:1013:TYR:CE2	2.54	0.43
2:H:425:PRO:HB3	2:H:1328:THR:CG2	2.49	0.43
2:H:662:ALA:HB1	2:I:605:ASN:HD21	1.84	0.43
2:J:686:ARG:NH2	2:K:796:ARG:HH21	2.17	0.43
2:K:433:ARG:O	2:K:1367:LEU:HD21	2.18	0.43
2:K:915:HIS:NE2	2:K:978:ALA:O	2.52	0.43
2:L:199:ASN:HA	2:L:202:LEU:HD12	2.01	0.43
2:M:372:LEU:HD12	2:M:385:LEU:HD11	2.00	0.43
2:M:399:LEU:HD13	2:M:1182:ASP:HB3	2.01	0.43
2:M:464:PHE:CD1	2:M:533:LEU:HD11	2.54	0.43
2:M:628:ARG:HA	2:M:631:VAL:HG12	2.00	0.43
2:M:651:TYR:CD2	2:M:781:GLN:HG2	2.54	0.43
2:K:21:THR:N	2:O:200:ALA:HB1	2.34	0.43
2:O:946:PRO:HG3	2:O:973:PHE:CD2	2.54	0.43
2:P:1069:ARG:NH2	2:P:1074:THR:HG21	2.34	0.43
2:P:234:ARG:HH22	2:P:282:ILE:HD13	1.84	0.43
3:X:25:VAL:HA	3:X:57:LYS:HD2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:194:THR:HB	1:0:197:VAL:HG23	2.01	0.42
1:0:274:ASP:O	1:0:277:ILE:HG22	2.19	0.42
1:4:98:ASP:N	1:4:98:ASP:OD1	2.52	0.42
1:5:184:LEU:HD11	1:5:205:TYR:OH	2.19	0.42
1:6:274:ASP:O	1:6:277:ILE:HG22	2.18	0.42
2:A:1089:GLY:HA2	2:A:1300:GLN:OE1	2.19	0.42
2:A:1250:GLU:HA	2:A:1254:TYR:HE1	1.84	0.42
2:A:387:ARG:HE	2:A:1310:LEU:HD23	1.84	0.42
2:A:560:ASN:CG	2:A:988:ARG:HG3	2.39	0.42
2:B:940:HIS:HE1	2:B:985:ASN:HD21	1.67	0.42
2:C:693:LEU:HD13	2:C:1025:LYS:HB2	2.00	0.42
2:D:1246:THR:HA	2:D:1249:ARG:HB3	2.00	0.42
2:E:1246:THR:HA	2:E:1249:ARG:HB3	2.01	0.42
2:F:322:LEU:HD22	2:F:325:PHE:HD1	1.84	0.42
2:F:361:ARG:O	2:F:362:LEU:HD12	2.19	0.42
2:G:451:HIS:CE1	2:G:1120:ASN:HD22	2.27	0.42
2:G:1191:ASN:HD21	2:G:1319:GLN:HB3	1.84	0.42
2:G:322:LEU:HD22	2:G:325:PHE:HD1	1.84	0.42
2:G:451:HIS:ND1	2:G:453:VAL:HG12	2.34	0.42
2:H:79:LYS:HG2	2:H:1059:ILE:HG13	2.01	0.42
2:I:600:THR:HA	2:I:644:LEU:HB2	2.01	0.42
2:I:799:GLY:H	2:I:943:TYR:HB3	1.84	0.42
2:J:1015:ILE:HG23	2:J:1032:PHE:HZ	1.84	0.42
2:J:122:LYS:HG2	2:J:1082:ASN:OD1	2.19	0.42
2:J:322:LEU:HD11	2:J:325:PHE:HD1	1.83	0.42
2:K:1173:GLU:O	2:K:1244:TYR:OH	2.22	0.42
2:J:53:ILE:O	2:K:322:LEU:HA	2.18	0.42
2:K:507:ARG:HD2	2:K:512:MET:CE	2.48	0.42
2:K:626:LEU:HD13	2:K:881:LEU:HB3	2.01	0.42
2:L:332:LEU:HD12	2:O:313:VAL:HG22	2.00	0.42
2:L:392:THR:HA	2:L:1039:THR:HA	2.00	0.42
2:M:633:ARG:O	2:M:637:ASN:ND2	2.41	0.42
2:N:1058:ILE:CG1	2:N:1082:ASN:HB2	2.48	0.42
2:N:216:LEU:HD13	2:N:1200:LEU:HD12	2.01	0.42
2:N:668:PRO:HB2	2:O:643:GLN:HG3	2.00	0.42
2:O:272:VAL:HG23	2:O:368:ILE:HB	2.01	0.42
2:O:62:GLU:OE2	2:O:173:ARG:NH1	2.44	0.42
2:P:453:VAL:HA	2:P:456:GLU:HG2	2.00	0.42
2:P:478:LEU:HD22	2:P:527:ILE:HD12	2.00	0.42
2:P:515:ASP:HA	2:P:993:ARG:NH2	2.34	0.42
3:U:29:PRO:HG2	3:U:32:ILE:HG12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:98:ASP:N	1:1:98:ASP:OD1	2.52	0.42
1:4:194:THR:HG23	1:4:197:VAL:H	1.84	0.42
2:A:230:LEU:HD12	2:A:1097:ALA:HB1	2.00	0.42
2:A:715:LEU:O	2:A:716:TRP:HD1	2.02	0.42
2:B:201:THR:HA	2:B:205:GLN:HG3	2.01	0.42
2:B:936:PRO:HB3	2:B:952:LEU:HD22	2.01	0.42
2:C:158:HIS:CE1	2:D:337:PRO:HD3	2.54	0.42
2:C:388:ASN:OD1	2:C:388:ASN:N	2.51	0.42
2:C:850:ARG:HG3	2:C:858:THR:HG21	2.01	0.42
2:D:1060:ASN:O	2:D:1079:GLN:NE2	2.42	0.42
2:E:1177:THR:HG22	2:E:1232:TRP:HZ3	1.84	0.42
2:F:1338:LYS:HE3	2:F:1338:LYS:HB2	1.83	0.42
2:F:534:HIS:CD2	2:F:536:PHE:HB2	2.54	0.42
2:F:540:THR:HG22	2:F:551:LEU:O	2.19	0.42
2:G:1138:GLU:HB3	2:G:1141:GLN:HB2	2.01	0.42
2:G:507:ARG:HH21	2:G:511:GLU:HB3	1.83	0.42
2:G:626:LEU:HD13	2:G:881:LEU:HB3	2.01	0.42
2:H:562:PRO:O	2:H:566:ALA:N	2.49	0.42
2:I:1332:LEU:HB3	2:I:1355:VAL:HG22	2.00	0.42
2:I:299:PRO:HA	2:I:352:LEU:HD23	1.99	0.42
2:I:478:LEU:HD11	2:I:509:VAL:HG13	2.01	0.42
2:J:638:MET:HE3	2:J:642:ARG:HD2	2.01	0.42
2:K:1249:ARG:HG2	2:K:1254:TYR:CD1	2.53	0.42
2:K:936:PRO:HD3	2:K:952:LEU:HB3	2.01	0.42
2:L:174:GLY:HA2	2:L:177:HIS:HB3	2.01	0.42
2:L:54:PHE:HB2	2:M:91:MET:HG2	2.01	0.42
2:N:1057:VAL:HG12	2:N:1083:THR:HG22	2.01	0.42
2:N:433:ARG:O	2:N:1367:LEU:HD21	2.19	0.42
2:O:182:THR:HG21	2:O:1083:THR:HG21	2.01	0.42
2:O:712:ASP:O	2:O:782:LYS:NZ	2.52	0.42
2:P:216:LEU:HD13	2:P:1200:LEU:HD12	2.00	0.42
2:C:1193:ARG:HG3	2:C:1266:PHE:HE1	1.84	0.42
2:D:207:LEU:HD13	2:D:212:ARG:HB3	2.01	0.42
2:E:397:VAL:HG12	2:E:1034:LEU:HD22	2.02	0.42
2:E:1332:LEU:HD13	2:E:1355:VAL:HG23	2.00	0.42
2:E:263:THR:HB	2:E:267:ALA:HB3	2.01	0.42
2:F:1069:ARG:HH21	2:F:1074:THR:HG23	1.84	0.42
2:G:698:LEU:HB3	2:G:706:TYR:HE2	1.84	0.42
2:H:1249:ARG:HG2	2:H:1254:TYR:CD1	2.55	0.42
2:H:628:ARG:NH1	2:H:663:ASP:OD2	2.52	0.42
2:I:188:PRO:HG2	2:I:193:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:871:PRO:HB2	2:I:872:LEU:H	1.67	0.42
2:J:534:HIS:CD2	2:J:537:PHE:HD1	2.36	0.42
2:K:211:GLN:O	2:K:215:ILE:HG12	2.18	0.42
2:K:492:ALA:O	2:K:495:ILE:HG22	2.19	0.42
2:L:1139:ARG:HD2	2:L:1140:PRO:HD2	2.00	0.42
2:L:212:ARG:NH2	2:L:1204:PRO:HD3	2.27	0.42
2:L:200:ALA:HB1	2:N:21:THR:N	2.31	0.42
2:M:611:TYR:CZ	2:M:923:VAL:HG13	2.54	0.42
2:N:1124:HIS:HE1	2:N:1126:GLU:HB3	1.84	0.42
2:O:1119:MET:HG3	2:O:1151:LEU:HD21	2.02	0.42
2:P:615:VAL:HG11	2:P:804:LEU:HD11	2.02	0.42
2:P:927:PRO:HD2	2:P:952:LEU:HD11	2.01	0.42
1:3:206:THR:O	1:3:210:ILE:HG12	2.19	0.42
2:A:537:PHE:O	2:A:555:ARG:NH2	2.52	0.42
2:B:559:GLY:HA3	2:B:1011:MET:HB3	2.01	0.42
2:C:1332:LEU:HD13	2:C:1355:VAL:HG23	2.00	0.42
2:C:30:GLU:HG3	2:C:30:GLU:O	2.20	0.42
2:C:556:ILE:HG21	2:C:986:TRP:CZ3	2.48	0.42
2:C:918:TYR:C	2:C:920:GLY:H	2.22	0.42
2:D:64:VAL:HG11	2:D:375:VAL:HG12	2.01	0.42
2:E:495:ILE:CG2	2:E:496:PRO:HD3	2.49	0.42
2:E:667:PRO:HG2	2:E:670:LEU:HB2	2.01	0.42
2:E:510:ASN:HB2	2:E:983:TYR:HE1	1.83	0.42
2:G:399:LEU:HD23	2:G:1033:ALA:HB1	2.00	0.42
2:G:209:ARG:HA	2:G:212:ARG:HG2	2.01	0.42
2:G:939:PHE:CG	2:G:940:HIS:N	2.87	0.42
2:H:76:HIS:HB3	2:H:1056:SER:HA	2.00	0.42
2:H:495:ILE:HB	2:H:496:PRO:HD3	2.02	0.42
2:H:537:PHE:HA	2:H:554:PRO:HA	2.02	0.42
2:I:1191:ASN:ND2	2:I:1197:SER:OG	2.53	0.42
2:I:884:GLN:O	3:Y:66:ARG:NH2	2.53	0.42
2:J:371:ASN:OD1	2:J:372:LEU:N	2.52	0.42
2:J:708:ASN:HB3	2:J:711:HIS:HD2	1.85	0.42
2:K:188:PRO:HG3	2:K:1090:TYR:CD2	2.54	0.42
2:K:24:LYS:HZ1	2:O:97:VAL:HG11	1.84	0.42
2:K:57:PHE:CD2	2:L:93:PHE:HE1	2.38	0.42
2:K:748:HIS:H	2:K:756:ARG:NH1	2.17	0.42
2:L:216:LEU:HD13	2:L:1200:LEU:HD12	2.01	0.42
2:L:63:TRP:CZ3	2:L:169:ASP:HB2	2.55	0.42
2:M:1182:ASP:OD1	2:M:1182:ASP:N	2.53	0.42
2:M:360:ILE:O	2:M:366:THR:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:144:GLU:O	2:N:146:THR:N	2.49	0.42
2:N:946:PRO:HG2	2:N:967:HIS:HA	2.00	0.42
2:O:633:ARG:HH22	2:O:878:GLU:HG3	1.85	0.42
2:O:124:PRO:HG2	2:P:104:ALA:HB2	2.01	0.42
2:P:562:PRO:O	2:P:566:ALA:N	2.48	0.42
2:P:588:PRO:HB2	2:P:590:TYR:CE2	2.53	0.42
1:O:124:ILE:HD13	1:O:127:ARG:HH21	1.85	0.42
1:5:206:THR:O	1:5:210:ILE:HG12	2.20	0.42
2:A:434:ASP:OD1	2:A:435:ARG:N	2.52	0.42
2:B:66:PHE:HD1	2:B:176:ILE:HD13	1.84	0.42
2:B:746:ALA:H	2:B:767:PHE:HB3	1.84	0.42
2:C:1041:THR:H	2:C:1104:THR:HG1	1.61	0.42
2:D:651:TYR:HB2	2:D:784:PHE:CG	2.54	0.42
2:D:59:ASN:ND2	2:E:96:GLN:O	2.51	0.42
2:G:1127:VAL:O	2:G:1131:ILE:HG12	2.19	0.42
2:G:1211:THR:HA	2:G:1214:ILE:HG22	2.01	0.42
2:H:1244:TYR:HA	2:H:1249:ARG:NH2	2.34	0.42
2:I:553:THR:HG21	2:I:983:TYR:O	2.19	0.42
2:J:1290:LYS:HG3	2:J:1310:LEU:HD13	2.01	0.42
2:J:190:TYR:HB2	2:J:1095:CYS:HB3	2.01	0.42
2:K:4:TRP:HZ2	2:K:34:ALA:HB1	1.84	0.42
2:L:559:GLY:HA3	2:L:1011:MET:HB3	2.01	0.42
2:M:1122:TYR:HE2	2:M:1131:ILE:HG21	1.85	0.42
2:M:182:THR:HA	2:M:185:ARG:HH21	1.85	0.42
2:M:687:ILE:O	2:M:1013:TYR:OH	2.37	0.42
2:N:1224:THR:HG22	2:N:1226:ALA:H	1.83	0.42
2:N:448:THR:HG22	2:N:1110:VAL:HG21	2.01	0.42
2:P:1129:ARG:HH11	2:P:1139:ARG:HH21	1.68	0.42
2:P:535:PRO:HB3	2:P:1232:TRP:CH2	2.54	0.42
2:P:409:THR:HG23	2:P:410:VAL:HG22	2.01	0.42
2:A:125:ILE:HB	2:A:1079:GLN:HB2	2.02	0.42
2:A:1180:THR:O	2:A:1182:ASP:N	2.45	0.42
2:B:1344:PHE:CD1	2:B:1364:GLN:HG2	2.55	0.42
2:B:269:ILE:HA	2:B:366:THR:HB	2.01	0.42
2:B:937:VAL:HG22	2:B:939:PHE:HB3	2.00	0.42
2:C:1212:LYS:O	2:C:1216:ASP:HB3	2.20	0.42
2:C:1360:ILE:O	2:C:1362:LEU:N	2.46	0.42
2:D:536:PHE:N	2:D:536:PHE:CD1	2.87	0.42
2:D:537:PHE:HA	2:D:554:PRO:HA	2.01	0.42
2:G:1347:SER:HB2	2:G:1355:VAL:O	2.19	0.42
2:G:682:ARG:O	2:G:685:THR:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:133:ALA:HB2	2:H:1071:ILE:O	2.20	0.42
2:H:779:THR:O	2:H:783:VAL:HG23	2.20	0.42
2:I:1249:ARG:HG2	2:I:1254:TYR:CE1	2.54	0.42
2:J:1065:THR:CG2	2:J:1076:HIS:HB2	2.50	0.42
2:J:705:ALA:HA	2:J:711:HIS:HB2	2.00	0.42
2:J:804:LEU:HA	2:J:807:LEU:HB3	2.02	0.42
2:K:22:HIS:CG	2:K:23:VAL:H	2.38	0.42
2:K:892:VAL:HG11	2:K:979:PHE:CE1	2.55	0.42
2:L:514:GLN:HE22	2:L:562:PRO:HA	1.83	0.42
2:M:983:TYR:O	2:M:988:ARG:NH2	2.52	0.42
2:N:1044:VAL:HG13	2:N:1096:VAL:HG13	2.01	0.42
2:N:538:ASP:N	2:N:553:THR:O	2.50	0.42
2:O:125:ILE:HG12	2:O:1079:GLN:HB3	2.02	0.42
2:O:127:ILE:HA	2:O:127:ILE:HD13	1.84	0.42
2:O:668:PRO:HB3	2:P:641:THR:O	2.20	0.42
3:Q:18:HIS:CD2	3:Q:44:LEU:HB3	2.55	0.42
3:V:21:VAL:HA	3:V:25:VAL:HB	2.02	0.42
1:4:50:THR:O	1:4:54:ASN:N	2.50	0.42
2:A:425:PRO:HG3	2:A:1354:TYR:HE1	1.84	0.42
2:B:127:ILE:HA	2:B:127:ILE:HD13	1.85	0.42
2:B:201:THR:O	2:B:1279:PHE:HZ	2.02	0.42
2:B:313:VAL:O	2:B:316:ILE:HG13	2.20	0.42
2:B:748:HIS:C	2:B:756:ARG:HH12	2.23	0.42
2:C:1114:PHE:CD2	2:C:1137:VAL:HG21	2.55	0.42
2:C:599:THR:O	2:C:603:SER:OG	2.26	0.42
2:C:800:LEU:HD22	2:C:952:LEU:HD21	2.02	0.42
2:D:1168:GLN:HG3	2:E:210:ILE:HD11	2.01	0.42
2:D:1205:TYR:HE2	2:D:1277:THR:HG23	1.85	0.42
2:E:342:ASP:HB2	2:E:345:SER:HB3	2.01	0.42
2:E:946:PRO:HG3	2:E:973:PHE:CD1	2.54	0.42
2:F:485:GLN:HE21	2:F:486:GLU:H	1.67	0.42
2:G:535:PRO:HD2	2:G:1239:LEU:HD23	2.02	0.42
2:G:552:CYS:SG	2:G:907:LEU:HD11	2.59	0.42
2:H:1004:SER:HA	2:H:1007:THR:HG22	2.01	0.42
2:I:721:THR:OG1	2:I:722:HIS:N	2.51	0.42
2:J:1138:GLU:HG2	2:J:1139:ARG:HG2	2.01	0.42
2:J:653:LEU:O	2:J:657:ILE:HG12	2.20	0.42
2:K:1018:VAL:HG12	2:K:1131:ILE:HD11	2.02	0.42
2:K:747:ARG:NH2	2:K:918:TYR:OH	2.53	0.42
2:L:1124:HIS:HB3	2:L:1127:VAL:HB	2.01	0.42
2:L:562:PRO:O	2:L:566:ALA:N	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:642:ARG:HB3	2:L:644:LEU:HG	2.01	0.42
2:M:259:THR:HG22	2:M:352:LEU:HD21	2.02	0.42
2:N:1257:LYS:HB3	2:N:1301:TYR:HD1	1.84	0.42
2:O:1212:LYS:HG3	2:O:1216:ASP:HB3	2.02	0.42
2:O:647:PHE:HD1	2:O:653:LEU:HD13	1.84	0.42
3:X:33:SER:HB2	3:X:36:THR:OG1	2.20	0.42
2:A:1298:ASP:OD1	2:A:1299:THR:N	2.53	0.42
2:A:180:LEU:HD11	2:A:372:LEU:HD13	2.02	0.42
2:A:457:PRO:O	2:A:460:CYS:N	2.51	0.42
2:B:1105:ASP:OD1	2:B:1166:HIS:HB3	2.20	0.42
2:B:478:LEU:HD11	2:B:509:VAL:HG13	2.02	0.42
2:C:1155:SER:OG	2:C:1255:ASN:OD1	2.33	0.42
2:C:578:ILE:HD13	2:C:1028:ILE:HG12	2.02	0.42
2:D:706:TYR:HB3	2:D:1018:VAL:HG21	2.00	0.42
2:D:524:VAL:HG23	2:D:1217:HIS:O	2.20	0.42
2:D:623:ALA:O	2:D:627:ILE:HG12	2.19	0.42
2:D:756:ARG:HG3	2:D:767:PHE:CE1	2.55	0.42
2:E:1199:MET:HB3	2:E:1275:ASN:HB3	2.01	0.42
2:G:963:PHE:HB3	2:G:966:TYR:CD2	2.55	0.42
2:I:1176:LEU:HD13	2:I:1230:ASN:ND2	2.34	0.42
2:J:1167:GLY:HA2	2:K:210:ILE:HG12	2.02	0.42
2:J:1221:ASP:OD1	2:J:1222:ALA:N	2.53	0.42
2:J:53:ILE:HG12	2:K:90:LYS:HD2	2.02	0.42
2:J:1164:THR:HG23	2:K:209:ARG:HD3	2.02	0.42
2:K:71:LEU:HD13	2:K:274:VAL:HG11	2.02	0.42
2:K:388:ASN:N	2:K:388:ASN:OD1	2.53	0.42
2:M:79:LYS:HG2	2:M:1059:ILE:HG13	2.01	0.42
2:M:180:LEU:HD23	2:M:384:PRO:HG2	2.02	0.42
2:M:478:LEU:HD13	2:M:512:MET:HE2	1.97	0.42
2:M:748:HIS:NE2	2:M:751:VAL:HB	2.34	0.42
2:N:455:HIS:CE1	2:N:1017:PRO:HB3	2.55	0.42
2:N:450:CYS:SG	2:N:1131:ILE:HG23	2.59	0.42
2:N:534:HIS:CD2	2:N:537:PHE:HD2	2.36	0.42
2:N:873:LEU:O	2:N:877:ARG:NH1	2.53	0.42
2:O:1165:VAL:HG13	2:O:1166:HIS:ND1	2.35	0.42
2:O:651:TYR:HA	2:O:654:VAL:HG12	2.01	0.42
2:P:1147:THR:O	2:P:1151:LEU:HG	2.20	0.42
2:P:392:THR:HG21	2:P:1265:TYR:HE2	1.85	0.42
2:P:79:LYS:N	2:P:303:GLY:O	2.30	0.42
3:T:64:LEU:O	3:T:68:VAL:HG23	2.19	0.42
1:8:77:LEU:HD22	1:9:89:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:211:GLN:HA	2:A:214:ASN:ND2	2.34	0.42
2:B:2:GLU:HB2	2:B:4:TRP:NE1	2.34	0.42
2:B:692:GLY:O	2:C:993:ARG:NH2	2.53	0.42
2:B:947:THR:HG22	2:B:967:HIS:NE2	2.35	0.42
2:C:1244:TYR:HA	2:C:1249:ARG:HH21	1.85	0.42
2:C:597:PHE:HA	2:C:600:THR:HG22	2.02	0.42
2:D:440:ILE:HB	2:D:1108:VAL:HG11	2.01	0.42
2:D:728:GLU:OE1	2:D:729:GLY:N	2.53	0.42
2:D:53:ILE:HG12	2:E:90:LYS:HD2	2.00	0.42
2:G:399:LEU:HD13	2:G:1182:ASP:HB3	2.02	0.42
2:G:429:TYR:CE2	2:G:1330:LEU:HG	2.55	0.42
2:G:287:LEU:O	2:G:291:ILE:HD12	2.20	0.42
2:H:66:PHE:HA	2:H:176:ILE:HD11	2.02	0.42
2:I:173:ARG:HB3	2:J:100:VAL:HG23	2.01	0.42
2:I:271:GLY:HA2	2:I:1051:GLY:HA2	2.01	0.42
2:I:651:TYR:HB2	2:I:784:PHE:CG	2.55	0.42
2:J:457:PRO:HG3	2:J:537:PHE:CD2	2.55	0.42
2:K:730:VAL:HG13	2:K:895:VAL:HG13	2.02	0.42
2:M:1147:THR:HA	2:M:1150:MET:HB3	2.02	0.42
2:M:188:PRO:HG2	2:M:193:VAL:HG22	2.02	0.42
2:N:706:TYR:HA	2:N:1014:LYS:HZ3	1.84	0.42
2:K:58:CYS:HB2	2:N:12:LYS:HD2	2.02	0.42
2:N:1306:GLY:O	2:O:106:LEU:HD13	2.18	0.42
2:N:428:ALA:O	2:N:440:ILE:HG22	2.20	0.42
2:N:718:PRO:HD2	2:N:785:TYR:HB2	2.02	0.42
2:O:1244:TYR:HB2	2:O:1266:PHE:HD2	1.84	0.42
2:P:443:VAL:HA	2:P:446:LEU:HD13	2.00	0.42
2:P:617:VAL:HG12	2:P:619:GLY:H	1.84	0.42
2:A:813:TYR:OH	3:Q:26:LEU:O	2.26	0.42
3:R:29:PRO:HG2	3:R:32:ILE:HG12	2.00	0.42
3:Y:34:GLU:HA	3:Y:40:LEU:HD23	2.01	0.42
1:2:75:SER:O	1:2:79:GLU:HG2	2.20	0.42
2:A:97:VAL:HG22	2:A:1293:ILE:HD11	2.02	0.42
2:B:1001:VAL:O	2:B:1002:LEU:HB2	2.19	0.42
2:B:675:ARG:HH22	2:C:599:THR:HG23	1.84	0.42
2:B:926:ALA:CB	2:B:952:LEU:HD11	2.50	0.42
2:C:1154:GLY:HA3	2:C:1257:LYS:HG3	2.00	0.42
2:B:682:ARG:HH12	2:C:796:ARG:HH12	1.66	0.42
2:E:677:LEU:O	2:E:681:LEU:HG	2.20	0.42
2:E:601:VAL:HG22	2:E:924:VAL:HG21	2.01	0.42
2:B:96:GLN:NE2	2:G:166:ASN:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:261:TYR:HB3	2:G:269:ILE:HD12	2.01	0.42
2:G:488:MET:HE1	2:G:978:ALA:O	2.19	0.42
2:I:1034:LEU:HG	2:I:1173:GLU:OE2	2.19	0.42
2:I:899:LEU:O	2:I:904:ARG:NH1	2.53	0.42
2:J:1167:GLY:HA3	2:K:210:ILE:HG23	2.02	0.42
2:K:1285:TYR:CE1	2:K:1317:LEU:HB2	2.55	0.42
2:K:429:TYR:HE1	2:K:439:LYS:HG3	1.84	0.42
2:K:931:ILE:HD11	2:K:952:LEU:HA	2.00	0.42
2:L:1127:VAL:O	2:L:1131:ILE:HG12	2.20	0.42
2:D:332:LEU:HD13	2:L:11:PRO:HD3	2.01	0.42
2:C:56:THR:HB	2:L:12:LYS:HG2	2.01	0.42
2:M:927:PRO:HB2	2:M:930:LEU:HB2	2.01	0.42
2:N:745:GLU:HB3	2:N:768:VAL:HG12	2.02	0.42
2:O:277:ALA:HA	2:O:371:ASN:HD21	1.85	0.42
3:Z:22:VAL:HG13	3:Z:28:LEU:HB2	2.02	0.42
1:3:227:ARG:HH21	1:3:231:ARG:HH22	1.67	0.41
1:7:274:ASP:O	1:7:277:ILE:HG22	2.21	0.41
1:9:140:VAL:HG21	1:9:158:HIS:HE2	1.85	0.41
2:A:748:HIS:NE2	2:A:751:VAL:HG12	2.35	0.41
2:B:1364:GLN:O	2:B:1368:PHE:HB3	2.20	0.41
2:B:188:PRO:HG2	2:B:193:VAL:CG2	2.50	0.41
2:C:936:PRO:HD3	2:C:952:LEU:HD23	2.02	0.41
2:D:802:LEU:HD23	2:D:934:SER:HA	2.01	0.41
2:E:387:ARG:HD3	2:E:1309:GLN:HG3	2.01	0.41
2:G:188:PRO:HG3	2:G:1090:TYR:CG	2.55	0.41
2:G:1146:GLU:O	2:G:1148:ILE:N	2.39	0.41
2:G:455:HIS:CE1	2:G:903:GLN:HA	2.55	0.41
2:G:717:PRO:HD3	2:G:782:LYS:HG2	2.02	0.41
2:G:941:ARG:HH12	2:G:987:LEU:HB3	1.85	0.41
2:G:946:PRO:HG3	2:G:973:PHE:CD1	2.55	0.41
2:I:440:ILE:HB	2:I:1108:VAL:CG1	2.50	0.41
2:I:443:VAL:HA	2:I:446:LEU:HD13	2.01	0.41
2:I:867:ASP:OD1	2:I:868:ALA:N	2.53	0.41
2:J:363:GLY:O	2:J:364:GLU:HG2	2.19	0.41
2:J:970:ASP:OD1	2:J:993:ARG:HA	2.20	0.41
2:K:397:VAL:HG13	2:K:1034:LEU:HB2	2.02	0.41
2:K:138:TYR:CZ	2:K:152:LEU:HD23	2.55	0.41
2:K:635:ILE:O	2:K:639:PHE:N	2.52	0.41
2:K:677:LEU:O	2:K:681:LEU:HG	2.20	0.41
2:K:715:LEU:HB3	2:K:782:LYS:HZ1	1.85	0.41
2:D:114:ILE:HG13	2:L:37:ILE:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:534:HIS:HD2	2:L:537:PHE:CD1	2.34	0.41
2:L:628:ARG:HA	2:L:631:VAL:HG12	2.01	0.41
2:M:1193:ARG:NH2	2:M:1214:ILE:HG13	2.35	0.41
2:M:322:LEU:HD11	2:M:325:PHE:HD1	1.85	0.41
2:N:1221:ASP:OD1	2:N:1222:ALA:N	2.52	0.41
2:N:431:LEU:HD23	2:N:436:ALA:H	1.83	0.41
2:N:783:VAL:O	2:N:787:CYS:HB2	2.20	0.41
2:O:1101:ARG:NH1	2:P:214:ASN:HD22	2.17	0.41
2:O:291:ILE:HG12	2:O:360:ILE:HG22	2.02	0.41
2:O:782:LYS:O	2:O:786:LEU:HB3	2.20	0.41
2:P:871:PRO:HB2	2:P:872:LEU:H	1.66	0.41
2:P:797:ALA:O	2:P:943:TYR:HA	2.19	0.41
1:6:140:VAL:HB	1:6:142:GLU:HG3	2.02	0.41
2:A:196:LEU:HD11	2:A:1289:ALA:HA	2.02	0.41
2:A:391:LEU:HA	2:A:1314:PRO:HG2	2.02	0.41
2:B:190:TYR:HB2	2:B:1095:CYS:HB3	2.02	0.41
2:B:1184:ASN:O	2:B:1188:ILE:HG22	2.20	0.41
2:B:435:ARG:N	2:B:1367:LEU:HD11	2.35	0.41
2:B:160:VAL:O	2:B:164:LEU:HG	2.20	0.41
2:B:164:LEU:HD21	2:B:321:ILE:HD11	2.01	0.41
2:C:188:PRO:HD2	2:C:1092:SER:O	2.20	0.41
2:C:715:LEU:HD23	2:C:782:LYS:HD2	2.02	0.41
2:D:769:ASP:OD1	2:D:770:ASP:N	2.51	0.41
2:E:1193:ARG:O	2:E:1230:ASN:HB2	2.19	0.41
2:E:295:THR:HA	2:E:356:SER:HA	2.01	0.41
2:F:1130:TRP:CE3	2:F:1131:ILE:HD13	2.55	0.41
2:F:534:HIS:ND1	2:F:535:PRO:HD2	2.36	0.41
2:F:917:LEU:HD21	2:F:920:GLY:HA3	2.01	0.41
2:G:1195:ARG:NH1	2:G:1227:ALA:O	2.54	0.41
2:G:1246:THR:HA	2:G:1249:ARG:HB3	2.01	0.41
2:G:469:PRO:HA	2:G:470:PRO:HD3	1.96	0.41
2:H:457:PRO:HD3	2:H:537:PHE:CZ	2.55	0.41
2:I:399:LEU:HD11	2:I:1186:PHE:CE2	2.55	0.41
2:J:1112:ASP:OD1	2:J:1112:ASP:N	2.52	0.41
2:J:1196:ALA:HB3	2:J:1222:ALA:HB3	2.01	0.41
2:J:394:PHE:CD1	2:J:1321:ALA:HB3	2.54	0.41
2:K:537:PHE:HA	2:K:554:PRO:HA	2.01	0.41
2:K:78:ILE:HB	2:K:1058:ILE:HG22	2.01	0.41
2:M:371:ASN:OD1	2:M:372:LEU:N	2.53	0.41
2:N:1132:ARG:NH2	2:N:1140:PRO:HD2	2.35	0.41
2:N:427:THR:HG22	2:N:441:ASP:OD1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:630:PHE:HA	2:O:633:ARG:HH21	1.84	0.41
2:O:905:GLN:OE1	2:O:1123:ARG:N	2.46	0.41
2:P:651:TYR:HA	2:P:654:VAL:HG12	2.02	0.41
2:P:714:ARG:CZ	2:P:900:ASP:HB3	2.50	0.41
3:U:18:HIS:ND1	3:U:44:LEU:HB3	2.35	0.41
3:X:68:VAL:O	3:X:71:SER:OG	2.32	0.41
1:3:274:ASP:O	1:3:277:ILE:HG22	2.20	0.41
2:A:1239:LEU:HA	2:A:1242:VAL:HG22	2.02	0.41
2:B:272:VAL:HA	2:B:368:ILE:HB	2.02	0.41
2:B:624:PHE:HZ	2:B:653:LEU:HG	1.85	0.41
2:C:15:ILE:O	2:L:60:ARG:HG2	2.20	0.41
2:D:1285:TYR:CG	2:D:1317:LEU:HD12	2.55	0.41
2:E:1047:LEU:HD23	2:E:1097:ALA:HB2	2.01	0.41
2:E:633:ARG:HH22	2:E:878:GLU:HG3	1.84	0.41
2:F:208:ASN:HB2	2:F:211:GLN:HG3	2.02	0.41
2:F:708:ASN:HB3	2:F:711:HIS:HD2	1.84	0.41
2:F:733:VAL:HG12	2:F:738:PRO:HA	2.01	0.41
2:H:73:ALA:HA	2:H:261:TYR:CZ	2.56	0.41
2:I:264:SER:OG	2:I:294:GLU:OE2	2.24	0.41
2:K:1240:SER:HB2	2:K:1266:PHE:HE2	1.85	0.41
2:K:143:PHE:HB3	2:K:144:GLU:OE1	2.19	0.41
2:K:947:THR:HG23	2:K:969:HIS:HE1	1.85	0.41
2:L:1035:THR:HG21	2:L:1176:LEU:HD12	2.02	0.41
2:L:1182:ASP:HA	2:L:1186:PHE:HD2	1.84	0.41
2:L:867:ASP:OD1	2:L:868:ALA:N	2.52	0.41
2:M:1026:ALA:HB3	2:M:1028:ILE:HG12	2.02	0.41
2:M:1059:ILE:HB	2:M:1079:GLN:HE21	1.85	0.41
2:M:182:THR:HG21	2:M:1083:THR:HG21	2.01	0.41
2:M:192:VAL:HA	2:M:219:PHE:CE1	2.55	0.41
2:M:812:PHE:C	2:M:814:ARG:H	2.24	0.41
2:N:1156:MET:HE1	2:N:1297:THR:HG21	2.02	0.41
2:O:694:ASN:ND2	2:O:704:SER:HB3	2.31	0.41
2:P:255:LEU:HD21	2:P:1086:MET:SD	2.60	0.41
2:P:973:PHE:HB2	2:P:974:PRO:HD2	2.02	0.41
1:1:55:GLU:HB3	1:1:59:TRP:HD1	1.85	0.41
1:2:55:GLU:HB3	1:2:59:TRP:CD1	2.54	0.41
2:A:1190:ASN:O	2:A:1320:GLU:HB3	2.20	0.41
2:B:247:ALA:HA	2:B:1049:TYR:CE2	2.55	0.41
2:B:1235:GLN:HG3	2:B:1236:ALA:O	2.21	0.41
2:B:618:HIS:NE2	2:B:887:GLY:HA3	2.34	0.41
2:E:253:SER:HB3	2:E:1054:CYS:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1103:ARG:HG2	2:E:1168:GLN:OE1	2.21	0.41
2:E:194:GLN:HA	2:E:197:VAL:HG12	2.02	0.41
2:J:1182:ASP:HA	2:J:1186:PHE:HD2	1.86	0.41
2:J:1264:GLN:OE1	2:J:1313:ASN:ND2	2.54	0.41
2:J:19:PHE:CZ	2:J:23:VAL:HG12	2.55	0.41
2:J:443:VAL:HA	2:J:446:LEU:HD13	2.01	0.41
2:J:514:GLN:HB3	2:J:993:ARG:HD2	2.02	0.41
2:J:628:ARG:HA	2:J:631:VAL:HG12	2.02	0.41
2:K:1338:LYS:HB2	2:K:1338:LYS:HE3	1.86	0.41
2:K:728:GLU:OE1	2:K:729:GLY:N	2.54	0.41
2:K:716:TRP:CZ2	2:K:730:VAL:HG11	2.49	0.41
1:8:249:TYR:OH	2:K:751:VAL:HG13	2.20	0.41
2:L:1360:ILE:O	2:L:1362:LEU:N	2.48	0.41
2:L:716:TRP:CE2	2:L:895:VAL:HG11	2.55	0.41
2:M:263:THR:OG1	2:M:269:ILE:HG13	2.20	0.41
2:M:940:HIS:CE1	2:M:987:LEU:HD12	2.55	0.41
2:M:946:PRO:HG3	2:M:973:PHE:HD1	1.86	0.41
2:N:94:HIS:NE2	2:N:113:THR:HG23	2.35	0.41
2:N:535:PRO:HD2	2:N:1239:LEU:HD23	2.02	0.41
2:N:733:VAL:HG23	2:N:894:GLU:HB2	2.02	0.41
2:O:716:TRP:CE2	2:O:895:VAL:HG11	2.55	0.41
2:P:1244:TYR:HB2	2:P:1266:PHE:HD2	1.85	0.41
1:1:94:TYR:CD1	1:1:95:PRO:HD2	2.56	0.41
1:5:16:LEU:HD13	1:5:58:LEU:HD21	2.01	0.41
2:A:400:TYR:H	2:A:1178:PRO:HB2	1.84	0.41
2:A:119:TYR:HD2	2:A:1299:THR:HG21	1.85	0.41
2:A:751:VAL:HG22	2:A:752:SER:H	1.85	0.41
2:B:1105:ASP:CG	2:B:1166:HIS:HB3	2.40	0.41
2:B:1348:GLU:O	2:B:1355:VAL:N	2.53	0.41
2:B:74:ALA:HB1	2:B:1054:CYS:SG	2.61	0.41
2:B:757:LEU:HD21	3:R:66:ARG:HH11	1.85	0.41
2:C:1217:HIS:NE2	2:C:1235:GLN:HG2	2.35	0.41
2:C:1174:LEU:HD11	2:C:1262:CYS:SG	2.60	0.41
2:C:207:LEU:HD13	2:C:212:ARG:HB3	2.01	0.41
2:C:451:HIS:CD2	2:C:1114:PHE:HA	2.55	0.41
2:E:1247:ARG:HG3	2:E:1269:GLU:HG3	2.03	0.41
2:E:522:TYR:HE1	2:E:1231:PRO:HD3	1.85	0.41
2:E:562:PRO:O	2:E:566:ALA:N	2.53	0.41
2:F:372:LEU:HD12	2:F:385:LEU:HD11	2.02	0.41
2:F:651:TYR:HA	2:F:654:VAL:HG12	2.03	0.41
2:F:756:ARG:HG3	2:F:767:PHE:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1124:HIS:CE1	2:G:1126:GLU:HB3	2.55	0.41
2:G:1234:SER:OG	2:G:1235:GLN:N	2.53	0.41
2:G:193:VAL:HG12	2:G:249:ALA:HB1	2.03	0.41
2:G:455:HIS:CD2	2:G:1017:PRO:HD3	2.54	0.41
2:H:1364:GLN:O	2:H:1368:PHE:HB3	2.21	0.41
2:H:651:TYR:HA	2:H:654:VAL:HG12	2.03	0.41
2:H:927:PRO:HD2	2:H:952:LEU:HD11	2.02	0.41
2:H:970:ASP:OD1	2:H:970:ASP:N	2.54	0.41
2:I:611:TYR:CZ	2:I:923:VAL:HG13	2.55	0.41
2:J:537:PHE:HA	2:J:554:PRO:HA	2.02	0.41
2:J:616:LEU:HB3	2:J:882:ALA:HB1	2.02	0.41
2:K:1367:LEU:HD23	2:K:1367:LEU:HA	1.90	0.41
2:N:651:TYR:CD2	2:N:781:GLN:HG2	2.54	0.41
3:U:34:GLU:HG2	3:U:41:ALA:HB2	2.02	0.41
1:3:87:VAL:HG22	1:3:199:ALA:HB1	2.03	0.41
1:5:18:ASN:OD1	1:5:21:ARG:NH2	2.54	0.41
1:6:105:HIS:O	1:6:131:SER:OG	2.39	0.41
2:A:517:VAL:O	2:A:521:PHE:N	2.53	0.41
2:B:1054:CYS:O	2:B:1086:MET:HB2	2.21	0.41
2:B:1285:TYR:CD2	2:B:1317:LEU:HD12	2.56	0.41
2:C:1195:ARG:HD3	2:C:1234:SER:OG	2.20	0.41
2:C:293:LYS:HG2	2:C:358:ASP:OD1	2.21	0.41
2:D:1244:TYR:HB2	2:D:1266:PHE:CD2	2.50	0.41
2:D:147:ILE:HG21	2:N:309:PRO:HA	2.02	0.41
2:D:473:PRO:HA	2:D:476:GLN:HB3	2.01	0.41
2:D:99:ARG:NH1	2:D:111:GLN:HG2	2.35	0.41
2:E:184:LEU:HD23	2:E:1048:LEU:HD13	2.02	0.41
2:E:1239:LEU:HD12	2:E:1240:SER:N	2.35	0.41
2:G:1059:ILE:HG22	2:G:1081:ILE:HG12	2.02	0.41
2:G:1150:MET:C	2:G:1152:THR:H	2.23	0.41
2:F:1166:HIS:CD2	2:G:1223:GLN:HA	2.54	0.41
2:G:62:GLU:O	2:G:62:GLU:HG2	2.21	0.41
2:G:715:LEU:HB2	2:G:986:TRP:CZ3	2.54	0.41
2:I:1039:THR:HG21	2:I:1259:TYR:HE2	1.85	0.41
2:J:706:TYR:O	2:J:1019:SER:HB2	2.21	0.41
2:K:1285:TYR:HA	2:K:1289:ALA:HB3	2.02	0.41
2:K:64:VAL:HG12	2:K:374:ARG:HE	1.85	0.41
2:K:556:ILE:O	2:K:1015:ILE:HG13	2.19	0.41
2:L:19:PHE:CZ	2:L:23:VAL:HB	2.56	0.41
2:M:399:LEU:HD11	2:M:1186:PHE:CE2	2.55	0.41
2:M:651:TYR:HB2	2:M:784:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:615:VAL:HG21	2:M:802:LEU:HD12	2.01	0.41
2:O:1133:HIS:ND1	2:P:474:ALA:HB1	2.35	0.41
2:O:453:VAL:HA	2:O:456:GLU:HG2	2.02	0.41
2:O:710:LEU:HB2	2:O:1012:LEU:HD23	2.02	0.41
2:P:394:PHE:HB3	2:P:1037:VAL:HG12	2.02	0.41
2:P:812:PHE:O	2:P:814:ARG:HG3	2.20	0.41
1:1:173:GLY:HA2	1:1:176:ARG:HB3	2.02	0.41
1:1:70:ASN:OD1	1:1:71:PRO:HD2	2.20	0.41
1:3:183:PRO:HB2	1:3:184:LEU:H	1.61	0.41
1:4:28:ASP:OD1	1:4:176:ARG:HG3	2.20	0.41
1:6:19:PHE:HA	1:6:26:LYS:HE3	2.02	0.41
2:A:1039:THR:OG1	2:A:1261:PRO:HB3	2.20	0.41
2:A:177:HIS:O	2:A:181:GLN:HG2	2.21	0.41
2:A:611:TYR:CZ	2:A:923:VAL:HA	2.56	0.41
2:B:536:PHE:CE1	2:B:1032:PHE:HZ	2.39	0.41
2:B:185:ARG:O	2:B:1286:LEU:HD13	2.20	0.41
2:B:896:ARG:HB2	2:B:911:ILE:HG21	2.02	0.41
2:C:455:HIS:CE1	2:C:1017:PRO:HG3	2.56	0.41
2:E:1038:ARG:HD2	2:E:1106:MET:HA	2.02	0.41
2:E:415:LYS:HD2	2:F:411:GLU:HG3	2.03	0.41
2:F:445:ALA:O	2:F:448:THR:HG22	2.20	0.41
2:G:1293:ILE:HG22	2:G:1311:ILE:HD13	2.03	0.41
2:G:452:PRO:HG3	2:G:1122:TYR:CE2	2.56	0.41
2:G:774:THR:HG23	2:G:777:GLU:H	1.85	0.41
2:G:803:ASN:HA	2:G:889:HIS:HD2	1.85	0.41
2:H:1232:TRP:HB3	2:H:1239:LEU:HD21	2.02	0.41
2:H:475:MET:SD	2:H:1218:ARG:NH2	2.93	0.41
2:H:537:PHE:HB3	2:H:552:CYS:SG	2.61	0.41
2:H:616:LEU:CD2	2:H:882:ALA:HB1	2.51	0.41
2:H:382:LYS:NZ	2:I:202:LEU:HD23	2.35	0.41
2:H:1165:VAL:HG23	2:I:216:LEU:HD23	2.02	0.41
2:I:451:HIS:ND1	2:I:453:VAL:HG12	2.36	0.41
2:I:50:PHE:HB2	2:J:321:ILE:HG12	2.03	0.41
2:L:699:ALA:H	2:L:1126:GLU:HG2	1.84	0.41
2:L:77:ALA:HB2	2:L:1057:VAL:HG23	2.02	0.41
2:M:527:ILE:HG22	2:M:1218:ARG:HH22	1.85	0.41
2:M:682:ARG:HA	2:M:685:THR:HG22	2.02	0.41
2:M:723:LEU:HG	2:M:768:VAL:HG21	2.03	0.41
2:N:280:MET:O	2:N:284:MET:HG2	2.21	0.41
2:N:312:ALA:O	2:N:316:ILE:HG13	2.21	0.41
2:N:73:ALA:HA	2:N:261:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:188:PRO:HB3	2:O:1282:ILE:HD13	2.01	0.41
2:O:229:LEU:HD21	2:O:242:PHE:CE2	2.56	0.41
2:O:760:MET:O	2:O:761:ASP:HB2	2.21	0.41
1:3:270:LEU:HD21	2:M:748:HIS:CE1	2.56	0.41
2:A:34:ALA:O	2:A:38:TYR:N	2.49	0.41
2:B:1185:TYR:O	2:B:1190:ASN:ND2	2.53	0.41
2:B:1206:ASP:O	2:B:1275:ASN:ND2	2.52	0.41
2:B:691:PRO:HB2	2:B:695:ASN:HB3	2.02	0.41
2:C:451:HIS:CE1	2:C:1117:PHE:HB2	2.55	0.41
2:C:138:TYR:CD2	2:C:152:LEU:HD21	2.55	0.41
2:C:448:THR:HG21	2:C:1173:GLU:HB3	2.03	0.41
2:C:514:GLN:NE2	2:C:563:ASP:OD2	2.46	0.41
2:C:58:CYS:O	2:L:14:GLY:HA2	2.21	0.41
2:C:760:MET:HB3	2:C:888:GLU:OE1	2.21	0.41
2:D:1176:LEU:HD23	2:D:1230:ASN:HD22	1.85	0.41
2:D:973:PHE:HB2	2:D:974:PRO:HD2	2.03	0.41
2:F:631:VAL:HG23	2:F:647:PHE:CZ	2.56	0.41
2:G:526:ASN:OD1	2:G:527:ILE:N	2.54	0.41
2:G:562:PRO:O	2:G:566:ALA:N	2.54	0.41
2:H:128:PRO:HB3	2:H:1076:HIS:CE1	2.55	0.41
2:H:688:SER:HB3	2:H:708:ASN:ND2	2.36	0.41
2:I:1367:LEU:HD23	2:I:1367:LEU:HA	1.37	0.41
2:K:535:PRO:HD2	2:K:1239:LEU:HD23	2.02	0.41
2:K:15:ILE:HG22	2:K:16:PRO:O	2.21	0.41
2:L:189:PRO:HG3	2:L:1285:TYR:CE2	2.56	0.41
2:L:601:VAL:HG23	2:L:924:VAL:HG21	2.03	0.41
2:M:512:MET:CE	2:M:527:ILE:HD11	2.50	0.41
2:N:605:ASN:HB3	2:N:642:ARG:HE	1.85	0.41
2:N:716:TRP:CE2	2:N:895:VAL:HG11	2.56	0.41
2:O:433:ARG:NH1	2:O:1166:HIS:HA	2.35	0.41
2:O:1176:LEU:HD23	2:O:1176:LEU:HA	1.93	0.41
2:O:1033:ALA:HB2	2:O:1178:PRO:HA	2.03	0.41
2:O:457:PRO:HD3	2:O:537:PHE:CZ	2.55	0.41
2:P:706:TYR:O	2:P:1019:SER:HB2	2.20	0.41
2:P:451:HIS:CE1	2:P:1117:PHE:HB2	2.55	0.41
1:2:184:LEU:HD13	1:2:205:TYR:OH	2.20	0.41
2:A:125:ILE:N	2:A:1079:GLN:O	2.45	0.41
2:A:1322:LEU:HD21	2:A:1360:ILE:HB	2.02	0.41
2:A:746:ALA:O	2:A:767:PHE:HA	2.21	0.41
2:A:919:ASN:OD1	2:A:920:GLY:N	2.54	0.41
2:B:680:VAL:O	2:B:684:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:729:GLY:O	2:B:898:PRO:HD2	2.21	0.41
2:B:940:HIS:HD2	2:B:942:PHE:HB2	1.86	0.41
2:C:892:VAL:HG11	2:C:979:PHE:HE1	1.84	0.41
2:D:1287:LEU:HA	2:D:1290:LYS:HZ1	1.85	0.41
2:D:1348:GLU:H	2:D:1355:VAL:HB	1.86	0.41
2:D:232:ARG:HH12	2:D:1361:PRO:HD2	1.85	0.41
2:D:284:MET:HA	2:D:291:ILE:HD12	2.02	0.41
2:D:545:ASN:OD1	2:D:545:ASN:N	2.54	0.41
2:E:1228:THR:HG22	2:E:1230:ASN:H	1.84	0.41
2:F:1103:ARG:NH2	2:F:1295:GLY:HA3	2.36	0.41
2:F:192:VAL:HA	2:F:219:PHE:HE1	1.85	0.41
2:F:555:ARG:NH2	2:F:561:LEU:HD23	2.36	0.41
2:F:896:ARG:HB3	2:F:911:ILE:HG21	2.02	0.41
2:G:122:LYS:HA	2:G:1082:ASN:OD1	2.20	0.41
2:G:1105:ASP:HB2	2:G:1167:GLY:O	2.21	0.41
2:G:779:THR:O	2:G:783:VAL:HG23	2.20	0.41
2:F:702:PRO:HG3	2:G:964:PRO:CG	2.50	0.41
2:H:1336:LYS:HZ2	2:H:1346:THR:HG23	1.86	0.41
2:H:698:LEU:HD11	2:H:1130:TRP:CD1	2.55	0.41
2:H:747:ARG:HG2	2:H:748:HIS:N	2.36	0.41
2:I:1182:ASP:N	2:I:1182:ASP:OD1	2.54	0.41
2:J:1295:GLY:O	2:K:210:ILE:HD12	2.21	0.41
2:J:601:VAL:HG22	2:J:924:VAL:HG21	2.02	0.41
2:K:651:TYR:HA	2:K:654:VAL:HG12	2.02	0.41
2:L:1110:VAL:HA	2:L:1171:ALA:HB3	2.02	0.41
2:L:375:VAL:HG23	2:L:376:TYR:CD2	2.55	0.41
2:L:461:LEU:HD13	2:L:552:CYS:HB2	2.02	0.41
2:H:968:ARG:NH2	2:M:694:ASN:O	2.54	0.41
2:M:894:GLU:HA	2:M:914:GLN:O	2.21	0.41
2:N:445:ALA:HA	2:N:1110:VAL:HG21	2.03	0.41
2:O:1215:TYR:CD1	2:O:1236:ALA:HB2	2.56	0.41
2:P:800:LEU:HD22	2:P:952:LEU:HD21	2.03	0.41
2:A:809:VAL:HG22	3:Q:62:LEU:HB2	2.03	0.41
3:X:47:TYR:OH	3:X:63:ASP:OD2	2.28	0.41
1:8:71:PRO:HG3	1:8:217:TRP:CE3	2.55	0.41
1:9:28:ASP:O	1:9:34:HIS:HE1	2.03	0.41
2:A:139:LEU:HD21	2:A:160:VAL:HG11	2.02	0.41
2:B:556:ILE:O	2:B:1015:ILE:HG12	2.21	0.41
2:B:724:PRO:HA	2:B:773:ALA:HB3	2.03	0.41
2:B:637:ASN:ND2	2:B:863:ASP:O	2.54	0.41
2:B:731:GLN:HB2	2:B:896:ARG:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1156:MET:SD	2:C:1294:ARG:NH1	2.91	0.41
2:C:241:LYS:HA	2:C:244:THR:HG22	2.03	0.41
2:C:940:HIS:CD2	2:C:942:PHE:H	2.39	0.41
2:D:890:VAL:HG23	2:D:918:TYR:O	2.20	0.41
2:E:1196:ALA:HB3	2:E:1223:GLN:HG3	2.03	0.41
2:E:940:HIS:NE2	2:E:987:LEU:HD12	2.36	0.41
2:F:388:ASN:ND2	2:F:1043:GLU:OE1	2.54	0.41
2:F:440:ILE:HB	2:F:1108:VAL:HG13	2.02	0.41
2:G:1267:ASN:HB3	2:G:1270:GLU:OE1	2.20	0.41
2:B:105:GLY:H	2:G:1307:THR:HG21	1.86	0.41
2:G:798:CYS:HB3	2:G:948:ILE:HG21	2.02	0.41
2:H:189:PRO:HD3	2:H:1286:LEU:HD21	2.03	0.41
2:H:446:LEU:HD21	2:H:1021:VAL:HG13	2.03	0.41
2:H:534:HIS:CD2	2:H:536:PHE:HB2	2.56	0.41
2:H:657:ILE:HD12	2:H:661:LEU:HD22	2.02	0.41
2:I:647:PHE:HD1	2:I:653:LEU:HD13	1.85	0.41
2:J:1066:LYS:HG3	2:J:1075:TYR:CE1	2.54	0.41
2:J:800:LEU:HD22	2:J:952:LEU:HD21	2.01	0.41
2:K:1165:VAL:HG13	2:K:1166:HIS:CD2	2.55	0.41
2:K:873:LEU:O	2:K:877:ARG:NH1	2.54	0.41
2:L:469:PRO:HA	2:L:470:PRO:HD3	1.99	0.41
2:L:947:THR:HG22	2:L:967:HIS:NE2	2.36	0.41
2:M:1279:PHE:O	2:M:1282:ILE:HG13	2.21	0.41
2:M:189:PRO:HG3	2:M:1285:TYR:CE2	2.55	0.41
2:N:724:PRO:HD3	2:N:778:TRP:CH2	2.56	0.41
2:O:337:PRO:HG2	2:O:338:HIS:CD2	2.56	0.41
2:O:756:ARG:HG3	2:O:767:PHE:CZ	2.56	0.41
2:O:960:VAL:HG11	2:O:967:HIS:HD2	1.86	0.41
2:P:396:PRO:HB3	2:P:1186:PHE:CZ	2.56	0.41
2:P:1276:LYS:HE2	2:P:1281:THR:HA	2.03	0.41
2:P:472:GLU:HB2	2:P:475:MET:HG2	2.03	0.41
2:P:592:GLU:HA	2:P:595:ARG:HE	1.85	0.41
1:0:246:ASP:HB2	1:0:281:SER:HB2	2.02	0.41
1:6:124:ILE:HD13	1:6:127:ARG:HH21	1.86	0.41
1:7:195:ALA:O	1:7:199:ALA:N	2.38	0.41
1:7:224:CYS:O	1:7:228:ILE:HG13	2.21	0.41
1:9:98:ASP:OD1	1:9:98:ASP:N	2.53	0.41
2:A:1128:ASP:O	2:A:1132:ARG:HG2	2.20	0.41
2:A:371:ASN:O	2:A:374:ARG:NH1	2.54	0.41
2:C:661:LEU:HB3	2:C:666:LEU:HD11	2.02	0.41
2:C:710:LEU:HD11	2:C:783:VAL:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:901:HIS:HA	2:C:904:ARG:HG2	2.03	0.41
2:C:1295:GLY:O	2:D:210:ILE:HD12	2.20	0.41
2:D:73:ALA:HA	2:D:261:TYR:CZ	2.55	0.41
2:D:855:GLU:O	2:D:859:GLU:HG2	2.21	0.41
2:E:41:ASP:OD1	2:E:45:ARG:NH2	2.50	0.41
2:E:583:ARG:NH2	2:F:569:PRO:HD3	2.36	0.41
2:E:672:PHE:HZ	2:F:643:GLN:HB2	1.86	0.41
2:J:457:PRO:HG3	2:J:537:PHE:CG	2.56	0.41
2:K:527:ILE:HG22	2:K:1218:ARG:HH12	1.85	0.41
2:K:79:LYS:HG2	2:K:1059:ILE:HG13	2.03	0.41
2:K:1101:ARG:NH2	2:L:202:LEU:HD13	2.26	0.41
2:L:553:THR:HG22	2:L:988:ARG:HH21	1.85	0.41
2:M:196:LEU:HD23	2:M:196:LEU:HA	1.92	0.41
2:M:553:THR:HG23	2:M:910:PHE:CZ	2.56	0.41
2:M:867:ASP:OD1	2:M:868:ALA:N	2.54	0.41
2:N:131:LEU:HD13	2:N:160:VAL:HG22	2.02	0.41
2:N:277:ALA:HB2	2:N:371:ASN:HD21	1.85	0.41
2:N:524:VAL:HA	2:N:1227:ALA:HB2	2.03	0.41
2:N:624:PHE:HE2	2:N:660:HIS:HB2	1.86	0.41
2:O:420:VAL:HG21	2:O:576:TRP:HB3	2.03	0.41
2:O:797:ALA:HA	2:O:924:VAL:HG22	2.03	0.41
2:O:798:CYS:HB3	2:O:948:ILE:HG21	2.01	0.41
2:P:360:ILE:O	2:P:366:THR:HA	2.20	0.41
1:1:105:HIS:O	1:1:131:SER:OG	2.29	0.40
1:8:171:LEU:HB3	1:8:212:ASN:ND2	2.37	0.40
2:A:884:GLN:HA	3:Q:66:ARG:HB2	2.03	0.40
2:B:77:ALA:HA	2:B:1057:VAL:O	2.21	0.40
2:B:447:LYS:HE2	2:B:1112:ASP:HB3	2.02	0.40
2:C:555:ARG:O	2:C:1015:ILE:HG12	2.20	0.40
2:C:1115:ARG:NH2	2:C:1138:GLU:HB3	2.36	0.40
2:C:518:VAL:HB	2:C:1179:VAL:HG11	2.03	0.40
2:C:433:ARG:HH22	2:C:1166:HIS:C	2.24	0.40
2:C:704:SER:O	2:C:707:VAL:HG22	2.21	0.40
2:D:1174:LEU:HD11	2:D:1262:CYS:SG	2.61	0.40
2:E:534:HIS:HD2	2:E:537:PHE:CG	2.39	0.40
2:F:297:SER:HA	2:F:354:PRO:HA	2.03	0.40
2:F:774:THR:O	2:F:778:TRP:N	2.45	0.40
2:G:1291:ASP:OD1	2:G:1316:ARG:NH2	2.54	0.40
2:G:1365:SER:O	2:G:1369:ASN:N	2.51	0.40
2:G:632:ALA:O	2:G:636:VAL:HG12	2.20	0.40
2:H:493:ARG:O	2:H:496:PRO:HD2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1109:ARG:HE	2:I:1225:PHE:HB3	1.86	0.40
2:I:594:LEU:HA	2:I:597:PHE:HB3	2.02	0.40
2:I:727:MET:HB2	2:I:730:VAL:HB	2.02	0.40
2:K:1221:ASP:OD1	2:K:1222:ALA:N	2.54	0.40
2:K:812:PHE:O	2:K:814:ARG:HG3	2.20	0.40
2:K:850:ARG:HE	2:K:858:THR:HG21	1.86	0.40
2:M:337:PRO:HG2	2:M:338:HIS:ND1	2.36	0.40
2:M:66:PHE:O	2:M:72:ALA:HB2	2.22	0.40
2:M:756:ARG:HG3	2:M:767:PHE:CZ	2.57	0.40
2:K:30:GLU:O	2:O:1280:LYS:HD3	2.21	0.40
2:O:756:ARG:HG3	2:O:767:PHE:CE1	2.56	0.40
2:P:948:ILE:O	2:P:952:LEU:HD13	2.21	0.40
3:Q:68:VAL:O	3:Q:71:SER:OG	2.25	0.40
1:2:274:ASP:O	1:2:277:ILE:HG22	2.21	0.40
1:4:60:LEU:HD23	1:4:228:ILE:HD13	2.03	0.40
2:A:459:PRO:HB2	2:A:1242:VAL:HB	2.02	0.40
2:A:514:GLN:HG2	2:A:993:ARG:HD2	2.03	0.40
2:B:597:PHE:O	2:B:601:VAL:HG12	2.21	0.40
2:C:4:TRP:O	2:C:8:GLU:HG3	2.22	0.40
2:C:555:ARG:HB3	2:C:560:ASN:HB2	2.03	0.40
1:1:256:HIS:NE2	2:C:748:HIS:HA	2.37	0.40
2:D:514:GLN:HE22	2:D:990:PRO:HA	1.86	0.40
2:E:1039:THR:HG21	2:E:1259:TYR:HE2	1.85	0.40
2:E:913:ARG:O	2:E:985:ASN:ND2	2.53	0.40
2:F:1199:MET:HB3	2:F:1275:ASN:HB3	2.04	0.40
2:F:573:LEU:HD23	2:F:576:TRP:CE3	2.57	0.40
2:H:942:PHE:HE1	2:H:992:SER:HA	1.86	0.40
2:I:733:VAL:HG21	2:I:896:ARG:NH1	2.36	0.40
2:J:450:CYS:SG	2:J:1131:ILE:HD12	2.62	0.40
2:K:77:ALA:HA	2:K:1057:VAL:O	2.21	0.40
2:K:808:LEU:HD23	2:K:883:VAL:HG13	2.02	0.40
2:L:457:PRO:HD3	2:L:537:PHE:CZ	2.56	0.40
2:M:535:PRO:HD2	2:M:1239:LEU:HD23	2.03	0.40
2:D:12:LYS:HE3	2:N:94:HIS:ND1	2.35	0.40
2:O:1182:ASP:N	2:O:1182:ASP:OD1	2.54	0.40
2:P:317:SER:OG	2:P:318:TYR:N	2.49	0.40
3:W:13:LYS:O	3:W:16:GLU:HG2	2.20	0.40
1:0:190:ARG:N	1:0:198:ASN:OD1	2.52	0.40
1:5:274:ASP:O	1:5:277:ILE:HG22	2.22	0.40
1:8:92:TYR:CE1	1:8:106:LEU:HD13	2.55	0.40
2:A:391:LEU:HD22	2:A:1042:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:431:LEU:HB2	2:A:1363:GLN:HE21	1.87	0.40
2:A:312:ALA:O	2:A:316:ILE:HG13	2.21	0.40
2:A:460:CYS:HA	2:A:1242:VAL:HG11	2.03	0.40
2:A:578:ILE:HG21	2:A:687:ILE:HG23	2.04	0.40
2:A:778:TRP:O	2:A:782:LYS:HG3	2.21	0.40
2:A:82:ASP:N	2:A:82:ASP:OD1	2.53	0.40
2:B:1021:VAL:O	2:B:1025:LYS:HG2	2.20	0.40
2:B:914:GLN:CD	2:B:986:TRP:HD1	2.25	0.40
2:C:1109:ARG:HH21	2:C:1169:LYS:HD2	1.86	0.40
2:C:1221:ASP:HB3	2:C:1224:THR:O	2.22	0.40
2:C:51:GLU:OE2	2:D:90:LYS:HD2	2.21	0.40
2:D:451:HIS:HE1	2:D:1114:PHE:HA	1.85	0.40
2:D:1279:PHE:HA	2:D:1282:ILE:HG22	2.03	0.40
2:C:58:CYS:HA	2:D:94:HIS:O	2.21	0.40
2:E:782:LYS:O	2:E:786:LEU:HB3	2.20	0.40
2:E:553:THR:HG23	2:E:910:PHE:CE1	2.57	0.40
2:F:779:THR:O	2:F:783:VAL:HG23	2.20	0.40
2:G:1204:PRO:C	2:G:1206:ASP:H	2.24	0.40
2:G:147:ILE:O	2:G:151:ILE:HG12	2.21	0.40
2:G:184:LEU:HB3	2:G:387:ARG:NH2	2.37	0.40
2:G:226:THR:HG23	2:G:242:PHE:CE1	2.57	0.40
2:H:1285:TYR:CG	2:H:1317:LEU:HD12	2.56	0.40
2:H:502:ARG:NH2	2:H:958:ARG:HD2	2.37	0.40
2:I:128:PRO:HA	2:I:1075:TYR:O	2.22	0.40
2:I:212:ARG:HH12	2:I:1204:PRO:CD	2.33	0.40
2:I:417:ASN:OD1	2:I:418:ASP:N	2.55	0.40
2:J:556:ILE:O	2:J:1015:ILE:HG13	2.21	0.40
2:J:1291:ASP:HB3	2:J:1316:ARG:HH22	1.86	0.40
2:J:518:VAL:HG12	2:J:564:GLY:HA2	2.03	0.40
2:J:553:THR:HG23	2:J:910:PHE:CE1	2.56	0.40
2:K:1010:ALA:HA	2:K:1013:TYR:CE2	2.56	0.40
2:K:451:HIS:CE1	2:K:1117:PHE:HB2	2.56	0.40
2:K:543:GLN:OE1	2:K:548:THR:HG22	2.21	0.40
2:K:597:PHE:CE1	2:K:648:ALA:HB1	2.56	0.40
2:K:927:PRO:HB2	2:K:930:LEU:HB2	2.04	0.40
2:M:1127:VAL:O	2:M:1131:ILE:HG12	2.21	0.40
2:H:101:ALA:HA	2:M:127:ILE:HD11	2.04	0.40
2:M:445:ALA:HA	2:M:1110:VAL:HG21	2.03	0.40
2:N:59:ASN:HB3	2:O:95:VAL:HG22	2.03	0.40
2:N:946:PRO:O	2:N:950:ALA:N	2.39	0.40
2:O:1062:PRO:HA	2:O:1078:THR:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:913:ARG:O	2:O:914:GLN:NE2	2.55	0.40
2:P:1160:ASN:OD1	2:P:1298:ASP:N	2.46	0.40
3:S:51:SER:HA	3:S:54:PHE:CZ	2.57	0.40
3:X:15:ASP:O	3:X:19:ARG:HG2	2.22	0.40
2:A:1004:SER:O	2:A:1007:THR:HG22	2.22	0.40
2:A:435:ARG:HD2	2:A:1367:LEU:HD22	2.02	0.40
2:B:1250:GLU:HB3	2:B:1254:TYR:HE1	1.87	0.40
2:B:701:GLU:HA	2:B:702:PRO:HD3	1.98	0.40
2:C:1033:ALA:C	2:C:1034:LEU:HD12	2.42	0.40
2:C:433:ARG:NH2	2:C:1166:HIS:O	2.54	0.40
2:C:1347:SER:HB3	2:C:1357:GLY:H	1.86	0.40
2:C:617:VAL:HG12	2:C:619:GLY:H	1.86	0.40
2:C:682:ARG:HA	2:C:685:THR:HG22	2.03	0.40
2:C:936:PRO:HB3	2:C:952:LEU:HD22	2.02	0.40
2:D:396:PRO:HB3	2:D:1186:PHE:CE1	2.57	0.40
2:E:651:TYR:HB2	2:E:784:PHE:CG	2.56	0.40
2:F:1113:LEU:HD21	2:F:1243:LEU:HD11	2.04	0.40
2:F:892:VAL:HG11	2:F:979:PHE:CZ	2.56	0.40
2:G:803:ASN:HD22	2:G:889:HIS:HD2	1.69	0.40
2:H:64:VAL:HG11	2:H:375:VAL:HG12	2.03	0.40
2:H:746:ALA:O	2:H:767:PHE:HA	2.21	0.40
2:H:796:ARG:HH21	2:M:686:ARG:NH2	2.18	0.40
2:I:1004:SER:HA	2:I:1007:THR:HG22	2.03	0.40
2:I:1165:VAL:HG13	2:I:1166:HIS:CD2	2.56	0.40
2:I:505:VAL:HB	2:I:974:PRO:HG3	2.02	0.40
2:I:724:PRO:HB3	2:I:778:TRP:CD2	2.57	0.40
2:J:1344:PHE:CD1	2:J:1364:GLN:NE2	2.89	0.40
2:J:867:ASP:OD1	2:J:868:ALA:N	2.55	0.40
2:K:106:LEU:HD12	2:K:107:PRO:HD2	2.02	0.40
2:K:800:LEU:HA	2:K:937:VAL:HG12	2.04	0.40
2:K:954:ASP:O	2:K:958:ARG:N	2.49	0.40
2:M:638:MET:CB	2:M:646:VAL:HG21	2.52	0.40
2:N:681:LEU:HB3	2:N:780:LEU:HD22	2.02	0.40
2:O:1069:ARG:O	2:O:1071:ILE:N	2.54	0.40
2:O:212:ARG:HH21	2:O:212:ARG:HD3	1.68	0.40
2:O:359:VAL:HG12	2:O:368:ILE:HD13	2.02	0.40
2:O:455:HIS:NE2	2:O:1017:PRO:HB3	2.36	0.40
2:O:518:VAL:HG11	2:O:567:PRO:HG3	2.02	0.40
2:O:946:PRO:HD2	2:O:969:HIS:HD1	1.86	0.40
2:P:272:VAL:HG23	2:P:368:ILE:HB	2.04	0.40
2:P:495:ILE:HD11	2:P:938:PRO:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:20:LEU:HB3	1:6:65:GLU:HG3	2.04	0.40
1:7:73:LEU:HD13	1:7:210:ILE:HD12	2.03	0.40
1:8:262:ASP:OD2	1:9:191:HIS:N	2.54	0.40
1:9:274:ASP:O	1:9:277:ILE:HG22	2.22	0.40
2:A:134:ALA:O	2:A:137:THR:HG22	2.22	0.40
2:A:183:LEU:HD22	2:A:1048:LEU:HD21	2.03	0.40
2:B:1239:LEU:HD12	2:B:1240:SER:N	2.37	0.40
2:B:164:LEU:HD11	2:B:321:ILE:HG13	2.03	0.40
2:B:437:VAL:O	2:C:1184:ASN:ND2	2.55	0.40
2:B:799:GLY:HA2	2:B:923:VAL:HB	2.03	0.40
2:B:817:PHE:HB3	2:B:880:PHE:CE1	2.56	0.40
2:C:747:ARG:HH11	2:C:756:ARG:NH2	2.20	0.40
2:C:914:GLN:OE1	2:C:986:TRP:HD1	2.04	0.40
2:B:53:ILE:HD11	2:C:92:LEU:HD13	2.03	0.40
2:D:63:TRP:CH2	2:D:165:LYS:HB3	2.52	0.40
2:D:382:LYS:HB2	2:E:204:ARG:NH1	2.36	0.40
2:D:440:ILE:HD11	2:D:444:ASP:HB2	2.04	0.40
2:D:894:GLU:HG2	2:D:915:HIS:CE1	2.57	0.40
2:D:989:SER:N	2:D:990:PRO:HD2	2.36	0.40
2:E:1132:ARG:HH22	2:E:1140:PRO:HD3	1.86	0.40
2:E:1103:ARG:CD	2:E:1168:GLN:HE22	2.32	0.40
2:E:1249:ARG:HG2	2:E:1254:TYR:CD1	2.56	0.40
2:E:694:ASN:HA	2:E:703:LEU:HD23	2.03	0.40
2:F:127:ILE:HD13	2:F:127:ILE:HA	1.83	0.40
2:G:394:PHE:HE2	2:G:1186:PHE:HD1	1.70	0.40
2:G:870:THR:HB	2:G:874:GLN:HB2	2.04	0.40
2:H:1066:LYS:HG3	2:H:1075:TYR:HE1	1.87	0.40
2:H:603:SER:HB3	2:H:605:ASN:OD1	2.21	0.40
2:I:452:PRO:HG3	2:I:1122:TYR:CE2	2.56	0.40
2:I:681:LEU:HB3	2:I:780:LEU:HD22	2.03	0.40
2:I:805:LYS:H	2:I:889:HIS:CE1	2.38	0.40
2:J:617:VAL:HG12	2:J:619:GLY:H	1.87	0.40
2:K:1101:ARG:HD3	2:L:199:ASN:HD21	1.86	0.40
2:K:804:LEU:HD13	2:K:886:VAL:HG13	2.04	0.40
2:L:1044:VAL:HG11	2:L:1096:VAL:HG13	2.04	0.40
2:L:698:LEU:HD23	2:L:1127:VAL:HG22	2.03	0.40
2:L:331:HIS:O	2:L:335:GLY:N	2.54	0.40
2:L:427:THR:HG22	2:L:441:ASP:OD1	2.21	0.40
2:M:433:ARG:NH1	2:M:1165:VAL:O	2.50	0.40
2:N:435:ARG:HG3	2:N:1367:LEU:HD13	2.03	0.40
2:N:495:ILE:CG2	2:N:496:PRO:HD3	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:812:PHE:O	2:N:814:ARG:HG3	2.21	0.40
2:O:360:ILE:O	2:O:366:THR:HA	2.21	0.40
2:P:1249:ARG:HG2	2:P:1254:TYR:CD1	2.57	0.40
2:P:1362:LEU:HD12	2:P:1363:GLN:HG3	2.04	0.40
3:S:40:LEU:O	3:S:44:LEU:HG	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	283/285 (99%)	274 (97%)	6 (2%)	3 (1%)	17	60
1	1	283/285 (99%)	267 (94%)	13 (5%)	3 (1%)	17	60
1	2	283/285 (99%)	267 (94%)	14 (5%)	2 (1%)	25	67
1	3	283/285 (99%)	266 (94%)	11 (4%)	6 (2%)	8	48
1	4	283/285 (99%)	271 (96%)	10 (4%)	2 (1%)	25	67
1	5	283/285 (99%)	272 (96%)	7 (2%)	4 (1%)	13	55
1	6	283/285 (99%)	271 (96%)	10 (4%)	2 (1%)	25	67
1	7	283/285 (99%)	267 (94%)	13 (5%)	3 (1%)	17	60
1	8	283/285 (99%)	275 (97%)	5 (2%)	3 (1%)	17	60
1	9	283/285 (99%)	271 (96%)	8 (3%)	4 (1%)	13	55
1	v	283/285 (99%)	262 (93%)	13 (5%)	8 (3%)	6	43
1	w	283/285 (99%)	269 (95%)	12 (4%)	2 (1%)	25	67
1	x	283/285 (99%)	264 (93%)	14 (5%)	5 (2%)	10	51
1	y	283/285 (99%)	270 (95%)	11 (4%)	2 (1%)	25	67
1	z	283/285 (99%)	272 (96%)	7 (2%)	4 (1%)	13	55
2	A	1321/1370 (96%)	1230 (93%)	78 (6%)	13 (1%)	18	61

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	1329/1370 (97%)	1226 (92%)	80 (6%)	23 (2%)	11	52
2	C	1345/1370 (98%)	1259 (94%)	71 (5%)	15 (1%)	17	60
2	D	1342/1370 (98%)	1233 (92%)	94 (7%)	15 (1%)	17	60
2	E	1343/1370 (98%)	1233 (92%)	90 (7%)	20 (2%)	12	54
2	F	1346/1370 (98%)	1242 (92%)	87 (6%)	17 (1%)	14	57
2	G	1347/1370 (98%)	1250 (93%)	82 (6%)	15 (1%)	17	60
2	H	1348/1370 (98%)	1253 (93%)	86 (6%)	9 (1%)	25	67
2	I	1343/1370 (98%)	1243 (93%)	88 (7%)	12 (1%)	20	63
2	J	1329/1370 (97%)	1239 (93%)	76 (6%)	14 (1%)	17	60
2	K	1344/1370 (98%)	1249 (93%)	87 (6%)	8 (1%)	28	70
2	L	1349/1370 (98%)	1259 (93%)	77 (6%)	13 (1%)	18	61
2	M	1349/1370 (98%)	1250 (93%)	89 (7%)	10 (1%)	25	67
2	N	1346/1370 (98%)	1256 (93%)	81 (6%)	9 (1%)	25	67
2	O	1344/1370 (98%)	1243 (92%)	84 (6%)	17 (1%)	14	57
2	P	1344/1370 (98%)	1249 (93%)	81 (6%)	14 (1%)	18	61
3	Q	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	R	61/75 (81%)	57 (93%)	4 (7%)	0	100	100
3	S	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	T	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	U	61/75 (81%)	56 (92%)	5 (8%)	0	100	100
3	V	61/75 (81%)	56 (92%)	4 (7%)	1 (2%)	11	53
3	W	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	X	61/75 (81%)	59 (97%)	2 (3%)	0	100	100
3	Y	61/75 (81%)	57 (93%)	4 (7%)	0	100	100
3	Z	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	a	61/75 (81%)	59 (97%)	2 (3%)	0	100	100
3	b	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	c	61/75 (81%)	60 (98%)	1 (2%)	0	100	100
3	d	61/75 (81%)	58 (95%)	3 (5%)	0	100	100
3	e	61/75 (81%)	57 (93%)	4 (7%)	0	100	100
3	f	61/75 (81%)	58 (95%)	3 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	g	258/290 (89%)	234 (91%)	21 (8%)	3 (1%)	15	58
4	j	288/290 (99%)	267 (93%)	17 (6%)	4 (1%)	13	55
4	m	288/290 (99%)	272 (94%)	14 (5%)	2 (1%)	25	67
4	p	288/290 (99%)	269 (93%)	16 (6%)	3 (1%)	18	61
4	s	288/290 (99%)	266 (92%)	17 (6%)	5 (2%)	11	52
5	h	288/306 (94%)	260 (90%)	21 (7%)	7 (2%)	7	45
5	i	281/306 (92%)	257 (92%)	20 (7%)	4 (1%)	13	55
5	k	288/306 (94%)	268 (93%)	14 (5%)	6 (2%)	8	48
5	l	301/306 (98%)	274 (91%)	24 (8%)	3 (1%)	18	61
5	n	291/306 (95%)	271 (93%)	15 (5%)	5 (2%)	11	52
5	o	287/306 (94%)	266 (93%)	18 (6%)	3 (1%)	18	61
5	q	291/306 (95%)	279 (96%)	11 (4%)	1 (0%)	44	80
5	r	302/306 (99%)	275 (91%)	21 (7%)	6 (2%)	9	49
5	t	292/306 (95%)	269 (92%)	19 (6%)	4 (1%)	13	55
5	u	302/306 (99%)	275 (91%)	24 (8%)	3 (1%)	18	61
All	All	31023/31905 (97%)	28879 (93%)	1807 (6%)	337 (1%)	21	60

All (337) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	3	183	PRO
2	A	694	ASN
2	A	805	LYS
2	B	203	ALA
2	B	844	ASP
2	B	1054	CYS
2	B	1162	ALA
2	C	254	ILE
2	C	1002	LEU
2	D	39	TYR
2	D	970	ASP
2	E	691	PRO
2	E	1162	ALA
2	E	1183	VAL
2	F	337	PRO
2	F	340	PRO
2	H	970	ASP

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Mol	Chain	Res	Type
2	J	862	GLU
2	J	970	ASP
2	K	771	TYR
2	K	970	ASP
2	N	970	ASP
2	N	1002	LEU
2	O	1002	LEU
2	P	337	PRO
5	l	250	PRO
1	1	6	ILE
1	2	74	SER
1	3	190	ARG
1	9	179	PHE
2	A	45	ARG
2	A	1052	LYS
2	A	1138	GLU
2	A	1204	PRO
2	B	198	GLU
2	B	689	ALA
2	B	699	ALA
2	B	763	ASP
2	B	862	GLU
2	B	1002	LEU
2	C	699	ALA
2	C	769	ASP
2	C	898	PRO
2	D	254	ILE
2	D	340	PRO
2	D	350	HIS
2	D	489	GLY
2	D	699	ALA
2	D	1071	ILE
2	D	1109	ARG
2	D	1193	ARG
2	E	23	VAL
2	E	33	GLU
2	E	693	LEU
2	E	699	ALA
2	E	970	ASP
2	E	1054	CYS
2	F	144	GLU
2	F	691	PRO

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Mol	Chain	Res	Type
2	F	728	GLU
2	F	1054	CYS
2	G	545	ASN
2	G	663	ASP
2	H	23	VAL
2	H	254	ILE
2	I	23	VAL
2	I	33	GLU
2	I	413	LYS
2	I	545	ASN
2	I	871	PRO
2	J	33	GLU
2	J	364	GLU
2	J	699	ALA
2	K	33	GLU
2	L	254	ILE
2	L	699	ALA
2	L	970	ASP
2	L	1002	LEU
2	M	33	GLU
2	M	272	VAL
2	M	771	TYR
2	M	970	ASP
2	M	1002	LEU
2	N	23	VAL
2	O	139	LEU
2	O	481	CYS
2	O	699	ALA
2	O	970	ASP
2	O	1070	ASP
2	P	43	PRO
2	P	317	SER
2	P	871	PRO
2	P	970	ASP
4	g	277	ASP
5	h	129	GLN
5	h	259	VAL
5	i	178	ARG
5	k	35	PRO
5	k	304	PHE
5	n	35	PRO
5	o	28	VAL

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Mol	Chain	Res	Type
5	o	244	GLU
4	p	73	GLY
5	q	35	PRO
5	r	259	VAL
4	s	200	PRO
5	t	75	ARG
1	v	74	SER
1	0	260	ASN
1	3	191	HIS
1	5	70	ASN
1	5	241	MET
1	8	6	ILE
2	A	168	ALA
2	A	1181	MET
2	B	746	ALA
2	B	991	PHE
2	C	337	PRO
2	C	862	GLU
2	C	1227	ALA
2	D	1002	LEU
2	E	3	ASN
2	E	349	ALA
2	E	518	VAL
2	E	688	SER
2	E	898	PRO
2	E	929	THR
2	F	862	GLU
2	G	518	VAL
2	G	752	SER
2	I	254	ILE
2	I	343	SER
2	I	970	ASP
2	J	404	ASP
2	J	413	LYS
2	J	1298	ASP
2	K	45	ARG
2	K	124	PRO
2	K	343	SER
2	K	1070	ASP
2	L	22	HIS
2	L	33	GLU
2	M	317	SER

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Mol	Chain	Res	Type
2	M	343	SER
2	M	489	GLY
2	N	812	PHE
2	N	847	ALA
2	O	545	ASN
2	O	939	PHE
2	O	1298	ASP
2	P	44	GLU
2	P	545	ASN
2	P	699	ALA
5	h	75	ARG
4	j	122	PRO
4	j	140	LEU
4	j	195	GLY
5	k	102	TRP
5	k	303	ILE
5	n	124	LEU
4	p	140	LEU
5	r	122	GLU
5	r	247	VAL
4	s	140	LEU
4	s	201	GLY
5	t	35	PRO
5	u	250	PRO
1	v	192	ALA
1	v	260	ASN
1	w	260	ASN
1	x	260	ASN
1	y	260	ASN
1	z	151	THR
1	z	260	ASN
1	0	70	ASN
1	1	70	ASN
1	1	260	ASN
1	3	70	ASN
1	5	260	ASN
1	7	176	ARG
1	8	260	ASN
1	9	6	ILE
1	9	70	ASN
2	B	413	LYS
2	B	436	ALA

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Mol	Chain	Res	Type
2	B	812	PHE
2	B	1126	GLU
2	C	847	ALA
2	C	1142	LEU
2	D	54	PHE
2	E	999	PRO
2	F	128	PRO
2	F	489	GLY
2	F	665	ALA
2	F	752	SER
2	F	939	PHE
2	F	1307	THR
2	G	140	ARG
2	G	337	PRO
2	G	1223	GLN
2	H	413	LYS
2	H	939	PHE
2	H	1002	LEU
2	J	939	PHE
2	J	1109	ARG
2	L	481	CYS
2	L	735	ASP
2	L	939	PHE
2	L	999	PRO
2	L	1268	THR
2	N	481	CYS
2	N	939	PHE
2	O	124	PRO
2	O	974	PRO
2	O	999	PRO
2	P	771	TYR
4	g	240	GLN
4	j	244	CYS
5	k	75	ARG
5	l	128	GLY
4	m	244	CYS
5	n	125	LEU
5	r	227	SER
5	r	258	HIS
4	s	244	CYS
1	x	74	SER
1	z	70	ASN

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Mol	Chain	Res	Type
1	3	6	ILE
1	4	6	ILE
1	4	70	ASN
1	5	6	ILE
1	7	187	ASN
1	8	70	ASN
1	9	260	ASN
2	A	1030	PRO
2	A	1202	VAL
2	A	1350	HIS
2	B	349	ALA
2	B	690	LEU
2	B	705	ALA
2	B	970	ASP
2	B	999	PRO
2	B	1143	LEU
2	C	695	ASN
2	C	1054	CYS
2	C	1109	ARG
2	D	939	PHE
2	E	939	PHE
2	E	1171	ALA
2	E	1323	PRO
2	F	1152	THR
2	G	349	ALA
2	H	54	PHE
2	H	999	PRO
2	I	124	PRO
2	I	1140	PRO
2	J	5	SER
2	J	905	GLN
2	K	999	PRO
2	L	124	PRO
2	L	1108	VAL
2	N	124	PRO
2	O	31	MET
2	O	337	PRO
2	O	1030	PRO
2	O	1171	ALA
2	P	5	SER
2	P	939	PHE
2	P	999	PRO

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Mol	Chain	Res	Type
3	V	38	PRO
4	g	160	THR
5	h	256	PRO
5	h	304	PHE
5	i	261	PRO
5	k	103	GLU
5	o	79	ASN
5	u	191	GLN
1	v	145	VAL
1	v	182	LYS
1	w	182	LYS
1	x	182	LYS
1	y	70	ASN
1	0	6	ILE
1	3	260	ASN
1	6	6	ILE
1	6	70	ASN
2	B	481	CYS
2	D	707	VAL
2	D	1030	PRO
2	G	128	PRO
2	G	410	VAL
2	G	535	PRO
2	G	687	ILE
2	H	343	SER
2	P	33	GLU
5	h	119	LEU
5	i	59	VAL
4	s	221	GLY
1	x	141	ARG
1	7	6	ILE
2	F	535	PRO
2	F	1030	PRO
2	G	457	PRO
2	J	1108	VAL
2	N	337	PRO
4	m	195	GLY
1	v	6	ILE
1	v	181	VAL
2	A	1071	ILE
5	h	188	VAL
5	l	78	GLY

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Mol	Chain	Res	Type
5	n	186	ASP
1	2	70	ASN
2	A	339	LEU
2	E	489	GLY
2	G	1030	PRO
2	G	1071	ILE
2	I	999	PRO
2	J	363	GLY
2	O	23	VAL
5	i	128	GLY
5	t	287	VAL
1	x	70	ASN
2	C	535	PRO
2	C	861	VAL
2	F	457	PRO
2	M	124	PRO
2	M	1030	PRO
2	P	1030	PRO
5	n	99	PRO
4	p	195	GLY
5	u	94	VAL
1	z	6	ILE
2	I	1030	PRO
5	t	128	GLY
1	v	70	ASN
5	r	250	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 PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	256/257 (100%)	256 (100%)	0	100	100
1	1	256/257 (100%)	256 (100%)	0	100	100
1	2	256/257 (100%)	256 (100%)	0	100	100
1	3	256/257 (100%)	256 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	4	256/257 (100%)	256 (100%)	0	100	100
1	5	256/257 (100%)	256 (100%)	0	100	100
1	6	256/257 (100%)	256 (100%)	0	100	100
1	7	256/257 (100%)	255 (100%)	1 (0%)	93	96
1	8	256/257 (100%)	256 (100%)	0	100	100
1	9	256/257 (100%)	256 (100%)	0	100	100
1	v	256/257 (100%)	256 (100%)	0	100	100
1	w	256/257 (100%)	256 (100%)	0	100	100
1	x	256/257 (100%)	256 (100%)	0	100	100
1	y	256/257 (100%)	256 (100%)	0	100	100
1	z	256/257 (100%)	256 (100%)	0	100	100
2	A	1156/1192 (97%)	1153 (100%)	3 (0%)	94	97
2	B	1162/1192 (98%)	1158 (100%)	4 (0%)	94	97
2	C	1174/1192 (98%)	1171 (100%)	3 (0%)	94	97
2	D	1173/1192 (98%)	1167 (100%)	6 (0%)	91	96
2	E	1174/1192 (98%)	1166 (99%)	8 (1%)	87	94
2	F	1175/1192 (99%)	1170 (100%)	5 (0%)	93	96
2	G	1177/1192 (99%)	1175 (100%)	2 (0%)	94	97
2	H	1177/1192 (99%)	1173 (100%)	4 (0%)	94	97
2	I	1174/1192 (98%)	1171 (100%)	3 (0%)	94	97
2	J	1161/1192 (97%)	1156 (100%)	5 (0%)	93	96
2	K	1174/1192 (98%)	1170 (100%)	4 (0%)	94	97
2	L	1178/1192 (99%)	1176 (100%)	2 (0%)	94	97
2	M	1178/1192 (99%)	1176 (100%)	2 (0%)	94	97
2	N	1175/1192 (99%)	1170 (100%)	5 (0%)	93	96
2	O	1174/1192 (98%)	1170 (100%)	4 (0%)	94	97
2	P	1174/1192 (98%)	1170 (100%)	4 (0%)	94	97
3	Q	59/68 (87%)	59 (100%)	0	100	100
3	R	59/68 (87%)	59 (100%)	0	100	100
3	S	59/68 (87%)	59 (100%)	0	100	100
3	T	59/68 (87%)	59 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	U	59/68 (87%)	59 (100%)	0	100	100
3	V	59/68 (87%)	59 (100%)	0	100	100
3	W	59/68 (87%)	59 (100%)	0	100	100
3	X	59/68 (87%)	59 (100%)	0	100	100
3	Y	59/68 (87%)	58 (98%)	1 (2%)	66	86
3	Z	59/68 (87%)	59 (100%)	0	100	100
3	a	59/68 (87%)	59 (100%)	0	100	100
3	b	59/68 (87%)	58 (98%)	1 (2%)	66	86
3	c	59/68 (87%)	59 (100%)	0	100	100
3	d	59/68 (87%)	59 (100%)	0	100	100
3	e	59/68 (87%)	59 (100%)	0	100	100
3	f	59/68 (87%)	59 (100%)	0	100	100
4	g	228/252 (90%)	227 (100%)	1 (0%)	93	96
4	j	252/252 (100%)	251 (100%)	1 (0%)	93	96
4	m	252/252 (100%)	250 (99%)	2 (1%)	85	93
4	p	252/252 (100%)	250 (99%)	2 (1%)	85	93
4	s	252/252 (100%)	250 (99%)	2 (1%)	85	93
5	h	262/273 (96%)	260 (99%)	2 (1%)	85	93
5	i	256/273 (94%)	256 (100%)	0	100	100
5	k	262/273 (96%)	260 (99%)	2 (1%)	85	93
5	l	272/273 (100%)	272 (100%)	0	100	100
5	n	263/273 (96%)	262 (100%)	1 (0%)	93	96
5	o	261/273 (96%)	260 (100%)	1 (0%)	93	96
5	q	263/273 (96%)	263 (100%)	0	100	100
5	r	272/273 (100%)	271 (100%)	1 (0%)	93	96
5	t	264/273 (97%)	263 (100%)	1 (0%)	93	96
5	u	272/273 (100%)	272 (100%)	0	100	100
All	All	27423/28005 (98%)	27340 (100%)	83 (0%)	94	97

All (83) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	7	170	ASN

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Mol	Chain	Res	Type
2	A	1362	LEU
2	A	1367	LEU
2	A	1370	SER
2	B	86	LEU
2	B	142	THR
2	B	231	ASN
2	B	1303	CYS
2	C	204	ARG
2	C	637	ASN
2	C	1370	SER
2	D	431	LEU
2	D	450	CYS
2	D	707	VAL
2	D	1303	CYS
2	D	1362	LEU
2	D	1370	SER
2	E	204	ARG
2	E	431	LEU
2	E	708	ASN
2	E	739	LEU
2	E	1183	VAL
2	E	1303	CYS
2	E	1362	LEU
2	E	1370	SER
2	F	207	LEU
2	F	226	THR
2	F	1303	CYS
2	F	1362	LEU
2	F	1367	LEU
2	G	1362	LEU
2	G	1370	SER
2	H	204	ARG
2	H	207	LEU
2	H	1303	CYS
2	H	1370	SER
2	I	431	LEU
2	I	1303	CYS
2	I	1370	SER
2	J	207	LEU
2	J	231	ASN
2	J	1057	VAL
2	J	1303	CYS

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Mol	Chain	Res	Type
2	J	1370	SER
2	K	207	LEU
2	K	212	ARG
2	K	1303	CYS
2	K	1370	SER
2	L	1057	VAL
2	L	1370	SER
2	M	1057	VAL
2	M	1364	GLN
2	N	116	VAL
2	N	226	THR
2	N	1057	VAL
2	N	1303	CYS
2	N	1370	SER
2	O	207	LEU
2	O	231	ASN
2	O	431	LEU
2	O	1370	SER
2	P	1057	VAL
2	P	1303	CYS
2	P	1366	MET
2	P	1368	PHE
3	Y	73	THR
3	b	73	THR
4	g	158	LEU
5	h	239	MET
5	h	241	LEU
4	j	158	LEU
5	k	82	LEU
5	k	238	LEU
4	m	158	LEU
4	m	241	ILE
5	n	297	ASN
5	o	297	ASN
4	p	158	LEU
4	p	241	ILE
5	r	246	SER
4	s	158	LEU
4	s	241	ILE
5	t	124	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (102) such sidechains are listed below:

Mol	Chain	Res	Type
2	A	534	HIS
2	A	560	ASN
2	A	984	HIS
2	A	1191	ASN
2	B	422	ASN
2	B	748	HIS
2	B	795	ASN
2	B	914	GLN
2	B	940	HIS
2	B	1080	ASN
2	B	1319	GLN
2	B	1364	GLN
2	C	22	HIS
2	C	903	GLN
2	C	914	GLN
2	C	940	HIS
2	C	1191	ASN
2	D	422	ASN
2	D	514	GLN
2	D	694	ASN
2	D	1080	ASN
2	E	534	HIS
2	E	605	ASN
2	E	903	GLN
2	E	914	GLN
2	E	940	HIS
2	E	1093	ASN
2	E	1264	GLN
2	E	1313	ASN
2	G	96	GLN
2	G	231	ASN
2	G	455	HIS
2	G	803	ASN
2	G	1079	GLN
2	G	1120	ASN
2	G	1264	GLN
2	G	1313	ASN
2	G	1353	ASN
2	H	59	ASN
2	H	214	ASN
2	H	618	HIS
2	H	711	HIS
2	H	919	ASN

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Mol	Chain	Res	Type
2	H	1133	HIS
2	I	605	ASN
2	I	889	HIS
2	I	901	HIS
2	I	985	ASN
2	J	199	ASN
2	J	560	ASN
2	J	889	HIS
2	J	901	HIS
2	J	945	ASN
2	J	969	HIS
2	J	1313	ASN
2	J	1364	GLN
2	K	438	GLN
2	K	749	HIS
2	K	889	HIS
2	K	901	HIS
2	K	919	ASN
2	K	945	ASN
2	K	969	HIS
2	K	1124	HIS
2	L	462	GLN
2	L	618	HIS
2	L	889	HIS
2	L	903	GLN
2	L	919	ASN
2	L	945	ASN
2	L	1027	HIS
2	L	1235	GLN
2	M	889	HIS
2	M	945	ASN
2	N	618	HIS
2	N	889	HIS
2	N	1023	GLN
2	O	889	HIS
2	O	914	GLN
2	O	1235	GLN
2	P	94	HIS
2	P	231	ASN
2	P	618	HIS
2	P	889	HIS
2	P	1223	GLN

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Mol	Chain	Res	Type
2	P	1235	GLN
2	P	1255	ASN
3	V	37	HIS
4	g	211	HIS
5	h	80	GLN
5	h	88	HIS
5	l	80	GLN
5	o	43	HIS
5	o	80	GLN
4	p	211	HIS
5	q	297	ASN
4	s	211	HIS
5	t	39	HIS
5	t	173	GLN
5	t	192	HIS
1	v	170	ASN
1	w	256	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.