



Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Feb 15, 2017 – 08:41 PM EST

PDB ID : 5JUL
EMDB ID: : EMD-8177
Title : Near atomic structure of the Dark apoptosome
Authors : Cheng, T.C.; Akey, I.V.; Yuan, S.; Yu, Z.; Ludtke, S.J.; Akey, C.W.
Deposited on : 2016-05-10
Resolution : 4.40 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
Mogul : 1.7.1 (RC1), CSD as537be (2016)
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20028442

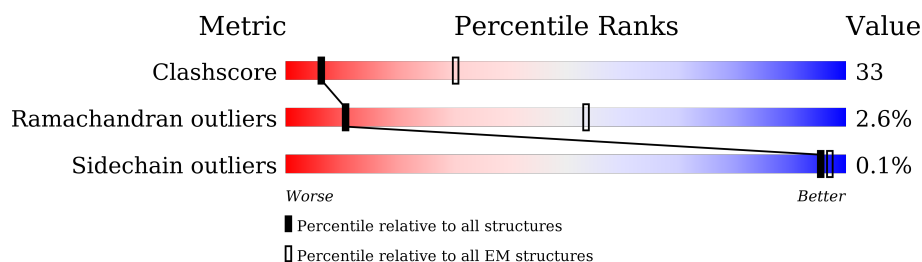
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.40 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	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

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	A	1440	48% 35% • 14%
1	B	1440	47% 36% • 14%
1	C	1440	47% 36% • 14%
1	D	1440	46% 36% • 14%
1	E	1440	48% 35% • 14%
1	F	1440	47% 36% • 14%
1	G	1440	47% 35% • 14%
1	H	1440	47% 35% • 14%
1	I	1440	47% 36% • 14%

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Mol	Chain	Length	Quality of chain
1	J	1440	<div><div></div><div>48%35%•14%</div></div>
1	K	1440	<div><div></div><div>47%36%•14%</div></div>
1	L	1440	<div><div></div><div>47%36%•14%</div></div>
1	M	1440	<div><div></div><div>47%36%•14%</div></div>
1	N	1440	<div><div></div><div>47%35%•14%</div></div>
1	O	1440	<div><div></div><div>47%36%•14%</div></div>
1	P	1440	<div><div></div><div>47%35%•14%</div></div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 161200 atoms, of which 0 are hydrogens and 0 are deuteriums.

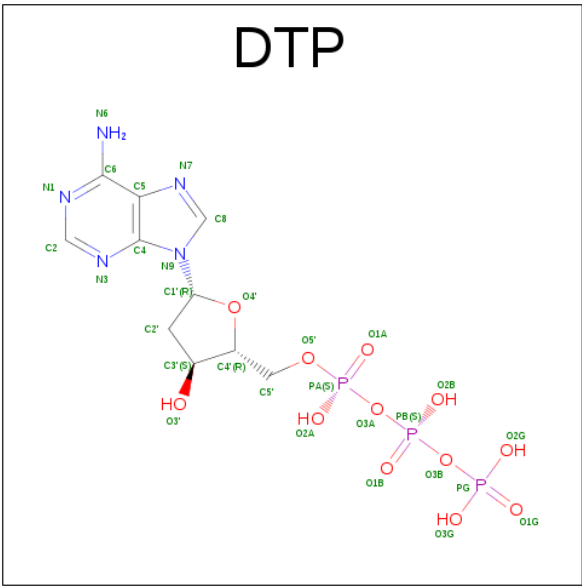
In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Apaf-1 related killer DARK.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	B	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	C	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	D	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	E	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	F	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	G	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	H	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	I	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	J	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	K	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	L	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	M	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	N	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	O	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	P	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		

- Molecule 2 is 2'-DEOXYADENOSINE 5'-TRIPHOSPHATE (three-letter code: DTP) (for-

mula: C₁₀H₁₆N₅O₁₂P₃).



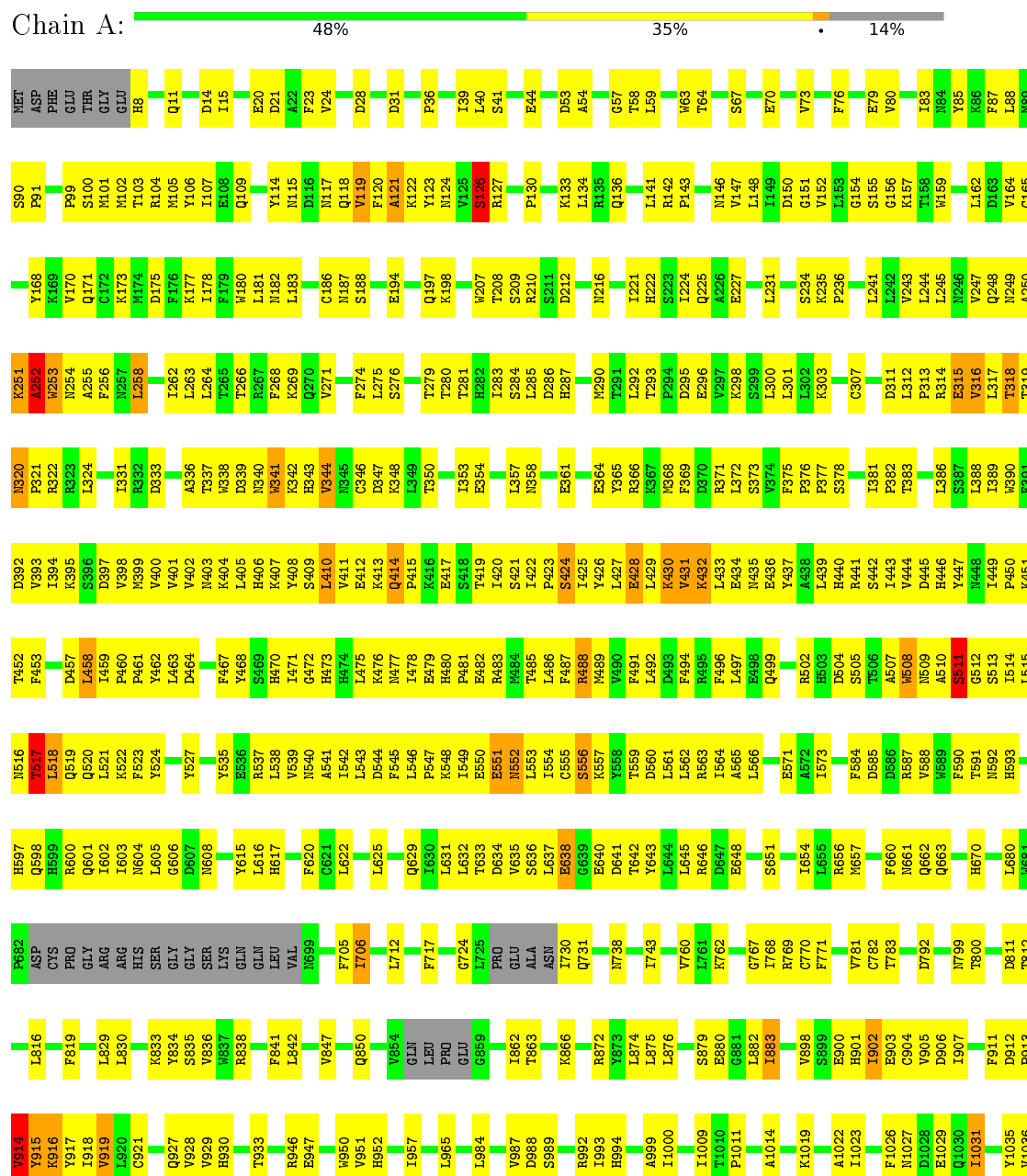
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Mol	Chain	Residues	Atoms					AltConf
2	N	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	O	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	P	1	Total	C	N	O	P	0
			30	10	5	12	3	

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: Apaf-1 related killer DARK



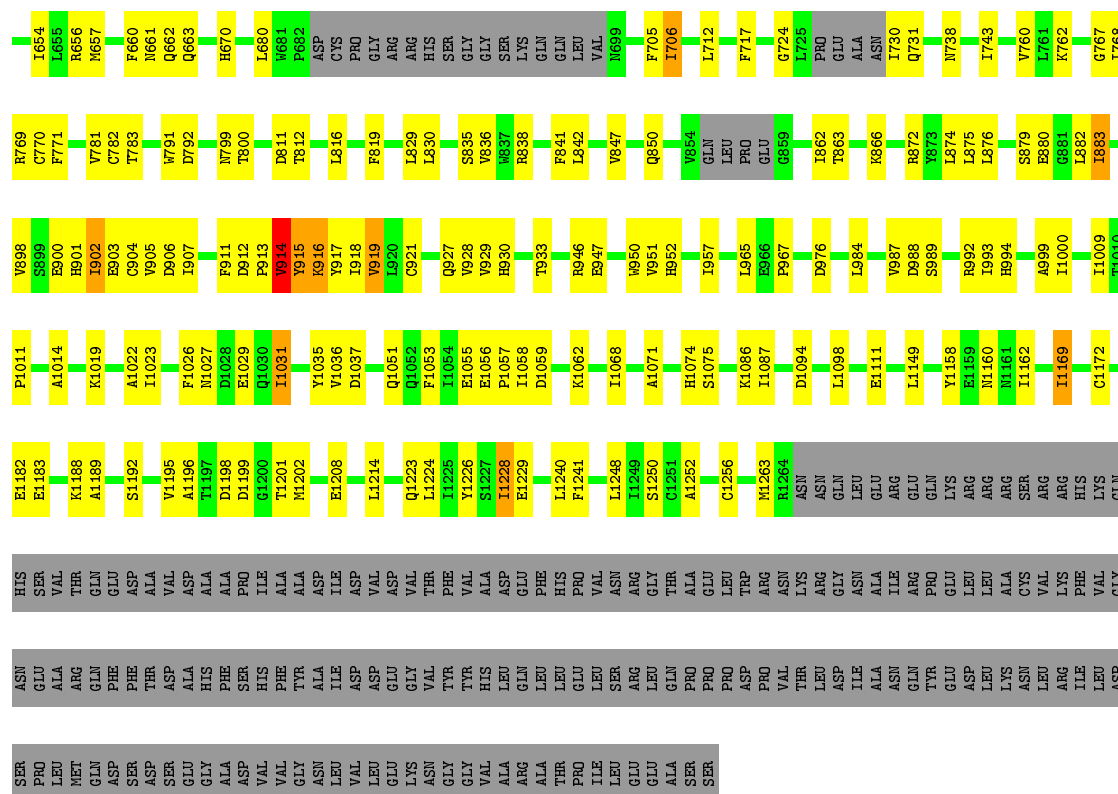
D1037	L1214	VAL	ASP	LEU
Q1051	Q1223	GLU	GLY	GLU
Q1052	Q1224	LYS	VAL	LYS
F1053	I1225	THR	GLU	ASN
I1054	Y1226	PHE	THR	GLY
E1055	Y1227	TYR	VAL	GLY
E1056	S1227	ALA	VAL	VAL
P1057	I1228	ASP	ALA	ARG
I1058	E1229	GLN	ARG	ARG
D1059	L1240	PHE	LEU	ALA
	F1241	HIS	LEU	ALA
		PRO	GLU	PRO
K1062		VAL	LEU	ILE
	L1248	SER	LEU	LEU
I1068	I1249	ARG	ARG	GLU
A1071	G1251	GLY	LEU	GLU
	C1252	THR	ALA	ALA
H1074		ALA	PRO	SER
S1075	C1256	GLU	PRO	SER
K1086	M1263	ASP	ASP	
I1087	R1264	PRO	PRO	
	ASN	THR	THR	
D1094	GLN	LYS	LEU	
L1098	LEU	GLY	ASP	
E1111	GLU	ILE	ILE	
	ARG	ALA	ASN	
D1139	GLU	ASN	GLN	
S1140	GLN	PRO	TYR	
	LYS	GLU	GLU	
L1149	ARG	LEU	ASP	
	ALA	LYS	LYS	
Y1158	SER	ASN	ASN	
E1159	ARG	VAL	LEU	
N1160	ARG	LYS	ARG	
R1161	HIS	PHE	ILE	
I1162	LYS	VAL	LEU	
	GLN	GLY	ASP	
I1169	HIS	ASN	SER	
	SER	PRO	PRO	
C1172	VAL	ALA	LEU	
	THR	ARG	MET	
E1182	GLN	GLN	GLN	
E1183	GLU	PHE	ASP	
	ASP	SER	SER	
K1188	ALA	THR	ASP	
A1189	VAL	ASP	SER	
	ASP	ALA	GLU	
V1195	ALA	HIS	GLY	
A1196	ALA	PHE	ALA	
T1197	PRO	SER	ASP	
D1198	ILE	HIS	VAL	
D1199	ALA	PHE	VAL	
G1200	ALA	THR	GLY	
T1201	ASP	ALA	ASN	
I1202	ILE	ILE	LEU	
	ASP	VAL	VAL	

• Molecule 1: Apaf-1 related killer DARK

Chain B: 47% 36% 14%

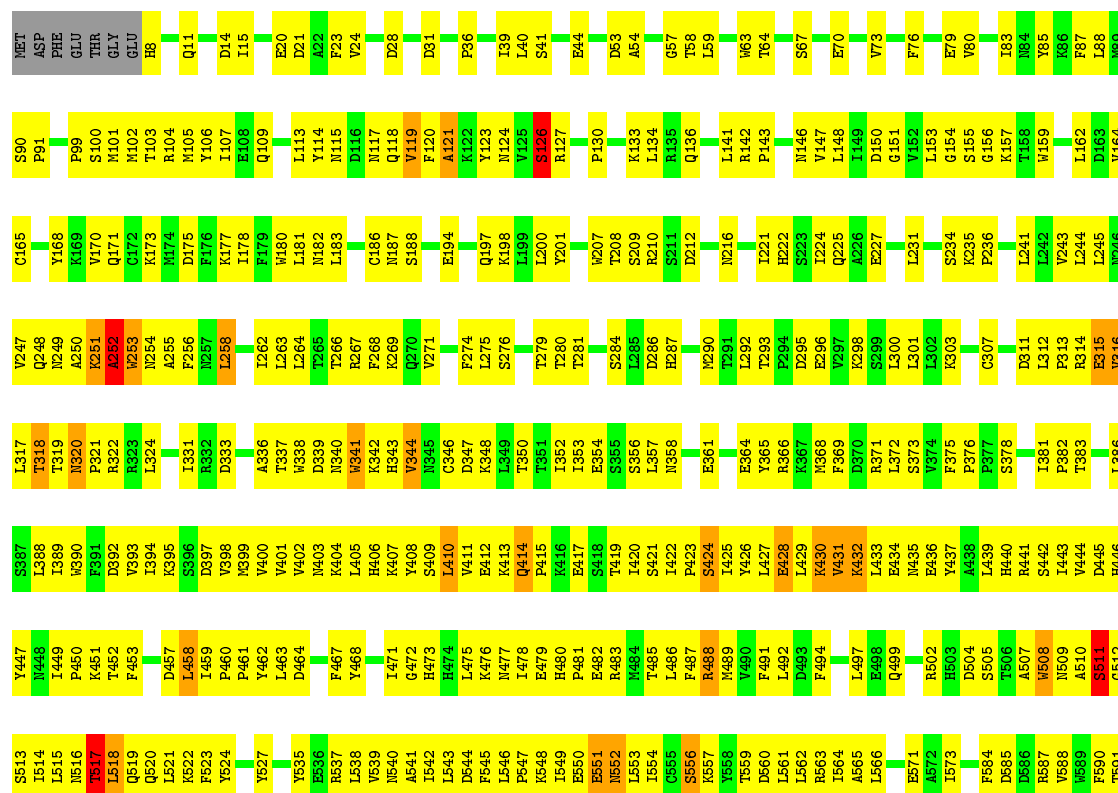
MET	K86	G156	L241	D311		T506	D585	M657	V781
ASP	F87	K157	L242	L312	I381	A507	D586	F660	C782
PHE	L88	K158	V243	P313	P382	M508	R587	M661	T783
GLU	M89	T159	L244	R314	T383	M509	V588	Q662	
THR	S90	W159	L245	E315	L386	A510	R589	Q663	W791
TYR	P91	L162	N246	V316	S287	S511	T591		D792
GLY	I92	D163	Y247	L317	L388	G512	M592	H670	N799
VAL	R93	V164	Q248	T318	L389	S513	H593		T800
ALA	T94	C165	N249	T319	W390	L514		L680	
ARG			A250	P320	K451	L515	H597	M681	D811
THR		Y168	K169	R321	F391	N516	P450	P682	T812
PRO		V170	M101	P322	D392	T517	T452	ASP	
LEU		Q171	M102	R323	V393	L518	F453	CYS	L816
SER		C172	T103	L324	I394	Q519	D457	PRO	
ARG		M174	M105	A252	D397	Q520	L458	GLY	F819
GLN		D175	Y106	R253	S396	L521	F602	ARG	
ALA		D176	I107	N254	D397	L522	P603	ARG	L829
PRO		P176	E108	K342	V398	T518	N604	HIS	L830
LEU		K177	Q109	K343	K399	Q519	G606	SER	
ASP		I178		A386	V400	Q520	L463	GLY	R833
PRO		F179	D28	L263	V401	Q521	D464	GLY	Y834
VAL		W180	D31	L264	M402	L521		SER	S835
THR		L113	P86	T265	K404	L522	F467	LYS	V836
LEU		Y114		R267	L405	E536	Y468	GLN	R837
GLY		N115		F268	H406	L538	S489	GLN	R838
ASP		D116		K342	K407	V539	H470	LEU	
ILE		N117		K343	K408	A541	I471	VAL	F841
ALA		Q118		V344	S409	T542	G472		L842
ASN		V119		C345	L410	I543	H473	M699	
GLN		S41		D347	V411	L544	H474	F705	V847
PRO		K42		K348	E412	D544	L475	I706	
GLU		K43		L349	K413	F545	K476	L712	Q850
LEU		E44		T350	P415	L546	I477		
LYS		D46		T351	K416	G557	I478	GLN	W854
ALA		D53		T279	E417	K558	E479	LEU	
SER		A54		T281	S418	E550	H480	PRO	F717
VAL		P130		S284	T419	N552	P481		G724
LYS		Y131		L285	L420	L553	E482		L725
PHE		L132		D286	S421	I554	R483	GLU	PRU
GLY		K133		H287	L422	G555	T485	ALA	
ASN		L134		D212	P423	S556	L486	ASN	I862
SER		R135		M290	S424	K557	F487		T863
PRO		Q136		T291	L425	K558	R488		
LEU		L141		L292	Y426	T559	M489		K866
MET		S67		T293	L427	D560	V490		R872
ARG		E70		P294	E428	L561	F491		Y873
ALA		V73		D295	L429	L562	L492		L875
GLY		F76		E296	K430	L563	F493		L876
THR		E79		Q225	V431	I564	F494		
PHE		V80		A226	K432	L566	L497		
VAL		G151		E227	L370	L567	E498		
GLY		V152		L231	L372	L568	Q499		
ASN		L153		S234	S373	L569	Q502		
LEU		P236		K235	V374	L570	H503		
VAL		Y85		C307	F375	L571	D504		
					P377	A572	L439		
					S378	I573	F771		
						F584	R656		





• Molecule 1: Apaf-1 related killer DARK

Chain E: 48% 35% 14%



H592	H593	H670	D811	D912	Q1030	T1197	ALA	HIS	GLY
H597	H598	I680	T812	F913	I1031	D198	ALA	PRE	ALA
D598	P882	W881	L816	Y914	Y1035	D199	PRO	SER	ASP
H599	ASP	P882	L819	X916	Y1036	T1201	ALA	HIS	ASP
R600	CYS	ASP	F819	Y917	D1037	M1202	GLY	THR	GLY
Q601	PRO	ASP	R822	Y918	Q1051	E1208	ALA	ASN	ASN
L602	GLY	PRO	L829	Y919	Q1052	L1214	ILE	LEU	VAL
L603	ARG	ARG	L830	C921	F1053	L1214	VAL	LEU	GLU
L604	ARG	ARG	L839	Q927	I1054	Q1223	VAL	GLY	GLY
L605	HIS	SER	S835	V928	E1055	L1224	THR	VAL	ASN
G606	SER	SER	V836	V929	E1056	I1225	THR	THR	GLY
D607	GLY	GLY	R837	H930	P1057	Y1226	VAL	TTR	GLY
H608	GLY	GLY	R838	H933	D1059	S1227	ALA	HIS	GLY
	SER	SER				E1228	ALA	GLN	ALA
	LYS	LYS	F841	T933	I1068	E1229	GLU	GLN	ARG
	GLN	GLN	L842	R946	A1071	L1240	LEU	LEU	ALA
	GLN	LEU	L847	E947	A1071	F1241	PRO	LEU	ALA
	VAL	VAL	Q850	Y950	H1074	L1248	VAL	GLU	THR
	N699	N699		Y951	S1075	L1249	ASN	LEU	ILE
	F705	F705		H952	K1086	S1250	ARG	GLY	GLU
	I706	I706			I1087	A1252	THR	GLN	ALA
	L712	L712		T957		C1256	ALA	PRO	SER
	G724	G724		L965	D1094		PRO	PRO	
	L725	L725		P966	L1098		LEU	ASP	
	PRO	PRO		P967		M1263	ASP	PRO	
	GLU	GLU		D976	E1111	R1264	ASN	VAL	
	ALA	ALA		L984	D1139	ASN	LYS	THR	
	ASN	ASN			S1140	ASN	ARG	LEU	
	I730	I730		Y987	L1149	GLU	GLN	ASP	
	Q731	Q731		D988	L1158	ARG	ILE	ILE	
				S989	E1159	GLU	ASN	ASN	
						GLN	GLN	GLN	
						LYS	PRO	TTR	
						LYS	GLU	GLU	
						ARG	LEU	ASP	
						ARG	LEU	LEU	
						ARG	ALA	LYS	
						SER	CYS	ASN	
							VAL	LEU	
							LYS	ARG	
							ILE	ILE	
							VAL	ASP	
							GLY	GLY	
							ASN	SER	
							GLU	PRO	
							ALA	MET	
							GLN	GLN	
							THR	GLY	
							ASP	SER	
							VAL	ASP	
							ASP	VAL	
							ASP	ASP	

• Molecule 1: Apaf-1 related killer DARK

Chain F:  47% 36% 14%

H440	H441	S378	C307	P236	S155	F67	MET
S442	I381		D311	L241	G156	L38	ASP
I443	P382		L312	L242	K157	M9	PRE
I444	T383		P313	V243	T158	S90	GLU
D445			R314	L244	H159	P81	THR
H446	L386		E315	L245		I92	GLY
I447	S387		V316	N246	D163	T93	GLU
H448	L388		L317	V247	V164	T94	H8
I449	L389		T318	Q248		R97	Q11
H450	H390		T319	N249		P98	
K451	F391		N320	A250	Y168	P99	D14
T452	D392		P321	K251	K169	S100	I15
F453	L393		R322	A252	V170	M101	
	H394		R323	R253	Q171	M102	E20
D457	K395		L324	A254	G172	T103	D21
I458	S396			A255	K173	R104	A22
I459	D397		T331	F256	H174	M105	F23
P460	V398		R332	N257	D175	Y106	V24
P461	H399		D333	L258	K177	I107	
I462	V400		G334		T176	E108	D28
K463	V401		L335	L262	K178	Q109	
L463	V402		A336	L263		R110	D31
D464	N403		T337	L264	F179	D111	
	K404		K338	T265			P36
F467	L405		D339	T266	L181	Y114	
Y468	H406		N340	R267	L183	M115	I39
S469	K407		N341	F268		D116	L40
H470	L408		K342	K269	C186	M117	S41
I471	L409		H343	Q270	M187	Q118	K42
G472	L410		V344	V271	S188	V119	E43
H473	V411		N345			F120	E44
H474	E412		K346	F274	E194	A121	I45
L475	K413		D347	L275		K122	D46
H476	Q414		K348	S276	Q197	Y123	
H477	L415		L349		L198	M124	
I478	F416		T350	T279	K199	V125	D83
E479	E417			T280	L200	S126	A54
H480	S418		L353	T281		R127	
P481	L419		E354		W207	P130	G57
E482	K420			S284	T208		T58
R483	S421		L357	L285	S209		L59
H484	L422		N358	D286	R210	K133	
T485	P423			H287	S211	L134	M63
L486	F424		E361		D212	R135	T64
F487	S424			M290		Q136	
R488	L425			T291	N216		S67
H489	Y426		E364	L292			
P490	L427		V365	T293		L141	E70
F491	E428		R366		T221	R142	
L492	L429		K367	P294	H222	P143	V73
D493	K430		N368	D295	S223		
F494	V431		F369	E296	R210	M146	F76
H495	K432		D370	V997	Q225	V147	
R496	L433		R371	K298	A236	L148	E79
L497	E434		L372	S299	E227	T149	V80
E498	N435		S373	L300		D150	
Q499	E436		V374	L301	L231	G151	I83
	Y437		F375	L302		V152	N84
R502	L438		R376	K303	S234	L153	Y85
F503	T439		E377			G154	

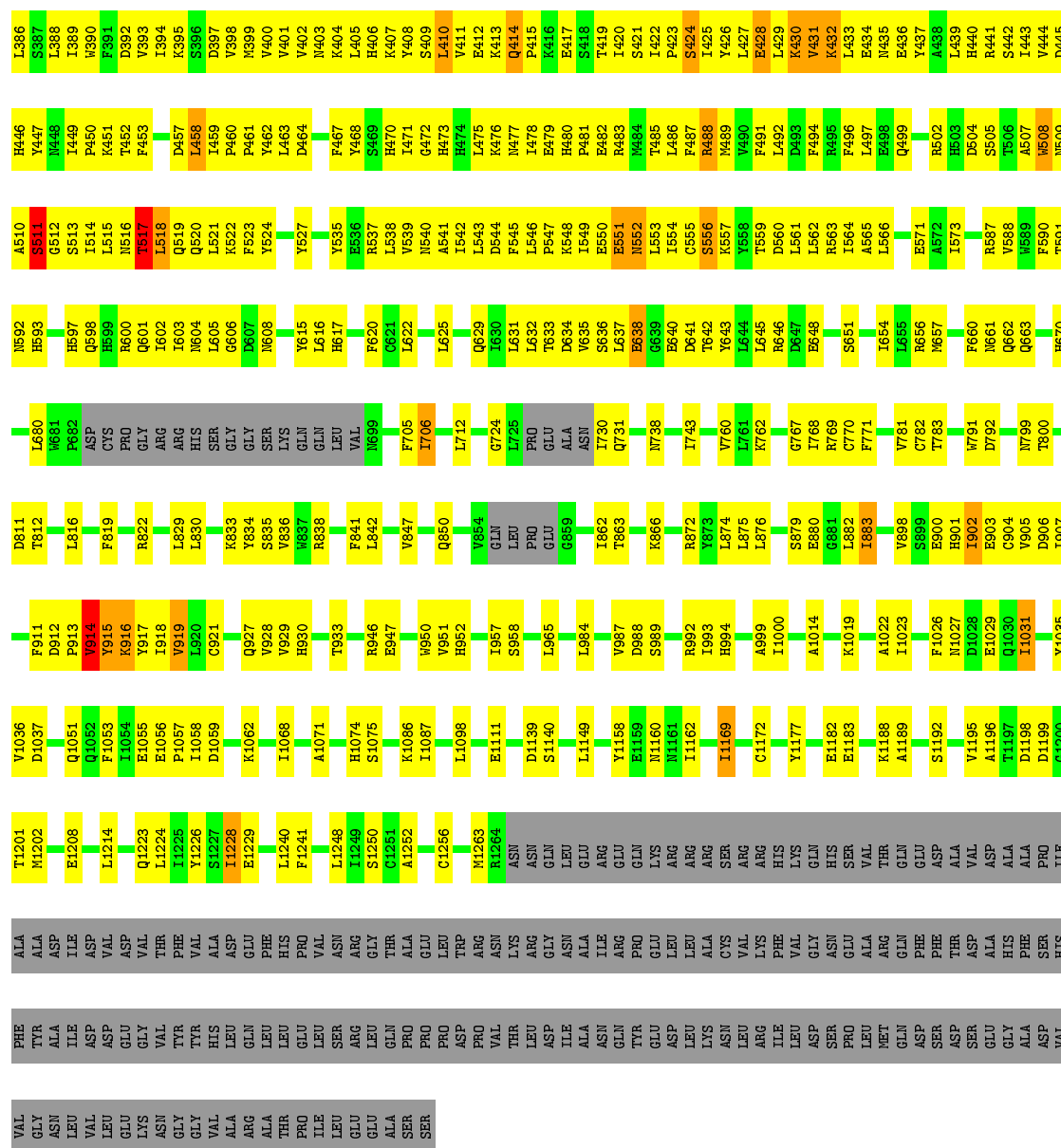


H446	A510	Q663	C904	D1028	A1196	ALA	PHE	ALA	PHE
Y447	S511	H799	V905	E1029	T1201	PRO	SER	ASP	SER
Y448	G512	T800	V906	Q1030	M1202	ILE	HIS	VAL	HIS
I449	S513	H592	I907	I1031		ALA	PHE	VAL	GLU
P450	I514	H593				ALA	TTR	GLY	TTR
K451	I515	H597	F911	Y1035	E1208	ASP	ILE	ASP	ILE
T452	N516	H598	D912	V1036	L1214	ILE	ASP	VAL	ASP
F453	T517	H599	F913	D1037		VAL	ASP	VAL	ASP
	L518	CYS	Y914	Q1051	Q1223	ASP	ASP	ASP	ASP
D457	Q519	PRO	Y915	Q1052	L1224	GLY	GLY	GLY	GLY
L458	Q520	GLY	X916	F1053	I1225	VAL	VAL	VAL	VAL
I459	L521	ARG	Y917	F1054	I1226	PHE	TTR	TTR	TTR
P460	K522	ARG	I918	E1055	S1227	VAL	TTR	VAL	VAL
P461	F523	HIS	Y919	E1056	I1228	ALA	HIS	ALA	ALA
Y462	Y524	SER	C921	P1057	E1229	ASP	LEU	ASP	LEU
L463		GLY		I1058	D1059	GLY	GLN	GLY	GLN
D464	Y527	GLY	Q927	D1059	L1240	PHE	LEU	LEU	LEU
		SER	V928	K1062	F1241	HIS	LEU	LEU	LEU
F467	Y535	LYS	V929			PRO	GLY	GLY	GLY
Y468	S536	GLN	H930	I1068	L1247	VAL	LEU	LEU	LEU
S469	R537	LEU	V931	I1068	I1249	ASN	SER	SER	SER
H470	L538	VAL	H932	I1067	C1250	ARG	ASP	ASP	ASP
I471	V539	VAL	T933	A1071	C1251	GLY	VAL	VAL	VAL
G472	N540	N699		H1074	A1252	ALA	ALA	ALA	ALA
H473	A541	F705	R946	E1074		GLY	THR	THR	THR
H474	I542	I706	E947	S1075	C1256	GLY	PRO	PRO	PRO
L475	L543	L712	N950	K1086		LEU	PRO	PRO	PRO
L476	D544	L717	V951	I1087	M1263	ASP	ASP	ASP	ASP
I477	F545	Q629	H952	D1094	R1264	VAL	VAL	VAL	VAL
I478	L546	L630			ASN	THR	THR	THR	THR
P479	P547	L631	T957	L1098	ASN	LYS	LYS	LYS	LYS
H480	K548	L632	D988	L1098	ASN	ARG	ARG	ARG	ARG
P481	L549	L633	L965	L1098	GLY	GLY	GLY	GLY	GLY
E482	E550	L634	H965	E1159	LEU	ILE	ILE	ILE	ILE
R483	E551	PRO	H962	E1111	GLY	ALA	ALA	ALA	ALA
H484	N552	GLY		L1149	ARG	ILE	ASN	ASN	ASN
T485	L553	ALA	V987	L1149	GLY	ARG	GLN	GLN	GLN
L486	I554	ASN	D989	Y1158	LYS	PRO	TTR	TTR	TTR
F487	C555	I730	S989	E1159	ARG	GLY	GLY	GLY	GLY
R488	S556	Q731		N1160	ARG	LEU	LEU	LEU	LEU
K489	K557	N738	R992	N1161	ARG	ALA	ALA	ALA	ALA
V490	Y558	T642	I993	E1162	SER	SER	CYS	CYS	CYS
F491	T559	T643	H994	I1169	ARG	VAL	VAL	VAL	VAL
L492	D560	L644	L995	G1172	HIS	PHE	PHE	PHE	PHE
D493	L561	L645	I996	Y1177	GLY	GLY	GLY	GLY	GLY
F494	R562	R646			ASN	ASN	ASN	ASN	ASN
R495	I564	R647	A999	E1182	VAL	GLY	GLY	GLY	GLY
F496	A565	E648	I1000	E1183	ALA	VAL	VAL	VAL	VAL
L497	L566	S651	A1014	I1020	THR	THR	THR	THR	THR
Q499				N1021	GLN	GLN	GLN	GLN	GLN
	E571	A572	K1019	A1022	GLY	ASP	ASP	ASP	ASP
R502	I573	I654	H988	I1023	ALA	ALA	ALA	ALA	ALA
H503	L573	R655	S989	S1192	VAL	ASP	ASP	ASP	ASP
D504	F584	R657	R901	V1195	ALA	ALA	ALA	ALA	ALA
S505	D585	F660	I902		HIS	HIS	HIS	HIS	HIS
T506	D586	T661	E903						
A507	R587	Q662							
W508	V588								

• Molecule 1: Apaf-1 related killer DARK

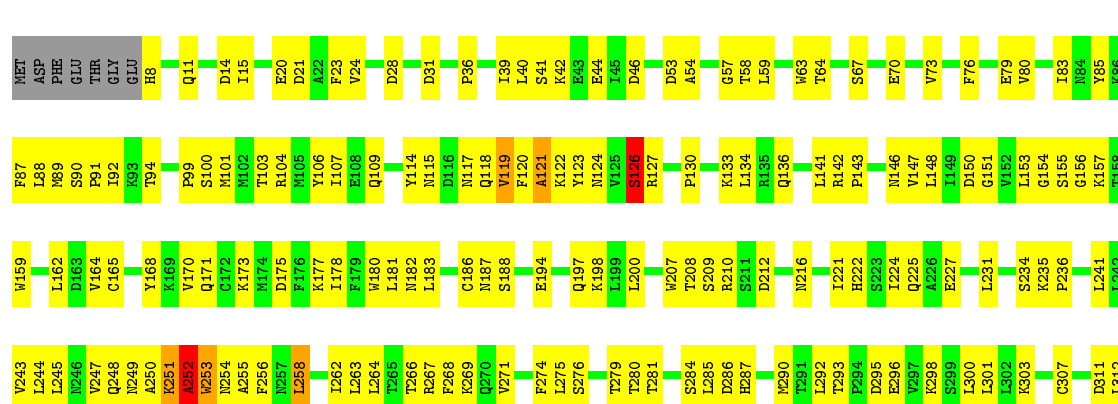
Chain H:  47% 35% 14%

MET	K86	T158	V247	R314
ASP	F87	W159	Q248	E315
PHE	L88	L162	N249	V316
GLY	M89	L163	A250	L317
TTR	S90	D163	K251	T318
GLY	P91	V164	A252	T319
GLY	I92	C165	K253	N320
HIS	K93		N254	P321
	T94	Y168	A255	R322
	P99	K169	H257	L324
	S100	Q171	L258	I331
	M101	K172	T262	R332
	M102	K173	L263	D333
	T103	H174	L264	
	R104	F176	T265	A336
	M105	K177	K266	T337
	GLN	I178	R267	K338
	LEU	F179	F268	D339
	LEU	W180	K269	N340
	LEU	N182	Q270	K341
	GLY	L183	V271	K342
	ALA		F274	H343
	SER		L275	V344
			S276	N345
			T279	C346
			K348	D347
			T280	K349
			T281	T350
			H282	
			L283	I353
			S284	E354
			L285	
			D286	L357
			H287	N358
			H290	E361
			T291	E364
			L292	Y365
			T293	R366
			P294	K367
			D295	K368
			E296	F369
			T297	D370
			K298	R371
			S299	L372
			L300	S373
			L301	V374
			L302	F375
			K303	P376
			Y304	P377
			L305	S378
			D306	
			C307	
				I381
				P382
				L312
				L313
				T383
				P313

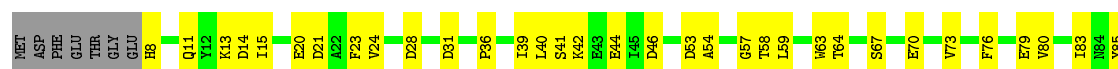


• Molecule 1: Apaf-1 related killer DARK

Chain I:



P313	L386	D445	N509	T591	H670	D611	P911	D1028	S1192	ASP	ALA	ALA	GLU
R314	L387	H446	A510	H592	H671	T512	D912	E1029	V1195	ALA	HIS	HIS	GLY
E315	S387	Y447	S511	H593	L660	T513	P913	Q1030	A1196	PRQ	PHE	ASP	ASP
V316	L388	N448	S512	H597	W681	L316	P914	I1031	A1197	ALA	THR	VAL	ALA
L317	L389	P450	S513	Q598	W682	L317	T915	Y1035	T1201	ALA	PHE	VAL	VAL
W318	W390	P451	I514	Q599	W683	L318	R916	Y1036	M1202	ALA	THR	VAL	VAL
T319	P391	K451	L515	H600	W684	P819	Y917	D1037	M1203	ALA	THR	VAL	VAL
N320	D392	F452	T517	H601	CYS	P820	V918	Q1038	E1208	ASP	ALA	ASP	ASN
P321	V393	F453	Q519	Q602	PRQ	L229	V919	Q1039	E1209	ILE	ALA	ILE	LEU
R322	K394	L395	Q520	L603	GLY	L330	L920	Q1040	L1214	ASP	VAL	VAL	VAL
K323	S396	D457	Q521	L604	ARG	K333	C921	F1053	L1215	ASP	VAL	VAL	VAL
L324	D397	L458	Q522	L605	HIS	S835	Q927	E1054	Q1223	ASP	VAL	VAL	VAL
T331	V398	L459	K522	L606	SER	S836	V928	E1055	L1224	THR	VAL	VAL	VAL
R332	W399	P460	F523	G607	GLY	W337	V929	E1056	I1225	PHE	THR	VAL	VAL
D333	W400	Y461	Y524	N608	GLY	W338	H930	P1057	I1226	VAL	THR	VAL	VAL
A336	V401	L463	Y527	L615	SER	P838	T933	I1058	S1227	ALA	ALA	ALA	ALA
T337	W402	D464	L527	L616	LYS	P839	V934	D1059	E1228	ASP	GLU	GLU	ARG
W338	W403	F467	Y535	L617	GLN	L342	R946	K1062	E1229	PHE	LEU	LEU	ALA
D339	K404	Y468	E536	H618	LEU	L343	E947	I1063	L1240	ALA	THR	THR	THR
W340	L405	F469	R537	L619	VAL	V847	P948	I1064	F1241	THR	THR	THR	THR
K341	K406	H470	L538	F620	N699	V848	N950	E1065	I1249	VAL	THR	THR	THR
K342	K407	L471	W539	G621	L705	Q850	V951	E1066	L1250	ARG	THR	THR	THR
K343	W408	G472	W540	L622	I706	W854	H952	E1067	S1251	GLY	THR	THR	THR
T344	S409	H473	A541	L623	L712	GLN	V957	E1068	C1256	THR	THR	THR	THR
K345	V411	H474	L542	L624	L713	LEU	P957	I1069	Q1257	ASP	THR	THR	THR
C346	L412	K476	D544	L625	L714	GLU	L965	K1070	G1258	ASP	THR	THR	THR
D347	K413	N477	F545	L626	L715	GLU	P966	E1071	G1259	ASP	THR	THR	THR
K348	Q414	L478	L546	L627	L716	GLU	P967	E1072	G1260	ASP	THR	THR	THR
L349	P415	E479	P547	L628	L717	GLU	P968	E1073	G1261	ASP	THR	THR	THR
T350	E417	H480	K548	L629	L718	GLU	D976	E1074	G1262	ASP	THR	THR	THR
T353	S418	L481	I549	L630	L719	GLU	P977	E1075	G1263	ASP	THR	THR	THR
E354	T419	E482	E550	L631	L720	GLU	D978	E1076	G1264	ASP	THR	THR	THR
I420	I420	R483	W551	L632	L721	GLU	P979	E1077	G1265	ASP	THR	THR	THR
S421	S421	L483	W552	L633	L722	GLU	D980	E1078	G1266	ASP	THR	THR	THR
L422	L422	T485	L553	L634	L723	GLU	P981	E1079	G1267	ASP	THR	THR	THR
P423	P423	L486	I554	L635	L724	GLU	D982	E1080	G1268	ASP	THR	THR	THR
S424	S424	F487	C555	L636	L725	GLU	P983	E1081	G1269	ASP	THR	THR	THR
I425	I425	R488	S556	L637	L726	GLU	D984	E1082	G1270	ASP	THR	THR	THR
Y426	Y426	W489	K557	L638	L727	GLU	P985	E1083	G1271	ASP	THR	THR	THR
L427	L427	L490	W558	L639	L728	GLU	D986	E1084	G1272	ASP	THR	THR	THR
E428	E428	F491	T559	L640	L729	GLU	P987	E1085	G1273	ASP	THR	THR	THR
L429	L429	L492	D600	L641	L730	GLU	D988	E1086	G1274	ASP	THR	THR	THR
K430	K430	P493	L561	L642	L731	GLU	P989	E1087	G1275	ASP	THR	THR	THR
W431	W431	F494	L562	L643	L732	GLU	D990	E1088	G1276	ASP	THR	THR	THR
D370	D370	R495	R563	L644	L733	GLU	P991	E1089	G1277	ASP	THR	THR	THR
R371	R371	F496	I564	L645	L734	GLU	D992	E1090	G1278	ASP	THR	THR	THR
L372	L372	L497	A565	L646	L735	GLU	P993	E1091	G1279	ASP	THR	THR	THR
S373	S373	E498	L566	L647	L736	GLU	D994	E1092	G1280	ASP	THR	THR	THR
V374	V374	Q499	E571	L648	L737	GLU	P995	E1093	G1281	ASP	THR	THR	THR
F375	F375	R502	A572	L649	L738	GLU	D996	E1094	G1282	ASP	THR	THR	THR
P376	P376	H503	I573	L650	L739	GLU	P997	E1095	G1283	ASP	THR	THR	THR
P377	P377	D504	W504	L651	L740	GLU	D998	E1096	G1284	ASP	THR	THR	THR
S378	S378	H440	R441	L652	L741	GLU	P999	E1097	G1285	ASP	THR	THR	THR
T381	T381	R442	S442	L653	L742	GLU	D1000	E1098	G1286	ASP	THR	THR	THR
P382	P382	I443	I443	L654	L743	GLU	P1001	E1099	G1287	ASP	THR	THR	THR
T383	T383	W505	F590	L655	L744	GLU	D1002	E1100	G1288	ASP	THR	THR	THR
				L656	L745	GLU	P1003	E1101	G1289	ASP	THR	THR	THR
				L657	L746	GLU	D1004	E1102	G1290	ASP	THR	THR	THR
				L658	L747	GLU	P1005	E1103	G1291	ASP	THR	THR	THR
				L659	L748	GLU	D1006	E1104	G1292	ASP	THR	THR	THR
				L660	L749	GLU	P1007	E1105	G1293	ASP	THR	THR	THR
				L661	L750	GLU	D1008	E1106	G1294	ASP	THR	THR	THR
				L662	L751	GLU	P1009	E1107	G1295	ASP	THR	THR	THR
				L663	L752	GLU	D1010	E1108	G1296	ASP	THR	THR	THR
				L664	L753	GLU	P1011	E1109	G1297	ASP	THR	THR	THR
				L665	L754	GLU	D1012	E1110	G1298	ASP	THR	THR	THR
				L666	L755	GLU	P1013	E1111	G1299	ASP	THR	THR	THR
				L667	L756	GLU	D1014	E1112	G1300	ASP	THR	THR	THR
				L668	L757	GLU	P1015	E1113	G1301	ASP	THR	THR	THR
				L669	L758	GLU	D1016	E1114	G1302	ASP	THR	THR	THR
				L670	L759	GLU	P1017	E1115	G1303	ASP	THR	THR	THR
				L671	L760	GLU	D1018	E1116	G1304	ASP	THR	THR	THR
				L672	L761	GLU	P1019	E1117	G1305	ASP	THR	THR	THR
				L673	L762	GLU	D1020	E1118	G1306	ASP	THR	THR	THR
				L674	L763	GLU	P1021	E1119	G1307	ASP	THR	THR	THR
				L675	L764	GLU	D1022	E1120	G1308	ASP	THR	THR	THR
				L676	L765	GLU	P1023	E1121	G1309	ASP	THR	THR	THR
				L677	L766	GLU	D1024	E1122	G1310	ASP	THR	THR	THR
				L678	L767	GLU	P1025	E1123	G1311	ASP	THR	THR	THR
				L679	L768	GLU	D1026	E1124	G1312	ASP	THR	THR	THR
				L680	L769	GLU	P1027	E1125	G1313	ASP	THR	THR	THR
				L681	L770	GLU	D1028	E1126	G1314	ASP	THR	THR	THR
				L682	L771	GLU	P1029	E1127	G1315	ASP	THR	THR	THR
				L683	L772	GLU	D1030	E1128	G1316	ASP	THR	THR	THR
				L684	L773	GLU	P1031	E1129	G1317	ASP	THR	THR	THR
				L685	L774	GLU	D1032	E1130	G1318	ASP	THR	THR	THR
				L686	L775	GLU	P1033	E1131	G1319	ASP	THR	THR	THR
				L687	L776	GLU	D1034	E1132	G1320	ASP	THR	THR	THR
				L688	L777	GLU	P1035	E1133	G1321	ASP	THR	THR	THR
				L689	L778	GLU	D1036	E1134	G1322	ASP	THR	THR	THR
				L690	L779	GLU	P1037	E1135	G1323	ASP	THR	THR	THR
				L691	L780	GLU	D1038	E1136	G1324	ASP	THR	THR	THR
				L692	L781	GLU	P1039	E1137	G1325	ASP	THR	THR	THR
				L693	L782	GLU	D1040	E1138	G1326	ASP	THR	THR	THR
				L694	L783	GLU	P1041	E1139	G1327	ASP	THR	THR	THR
				L695	L784	GLU	D1042	E1140	G1328	ASP	THR	THR	THR
				L696	L785	GLU	P1043	E1141	G1329	ASP	THR	THR	THR
				L697	L786	GLU	D1044	E1142	G1330	ASP	THR	THR	THR
				L698	L787	GLU	P1045	E1143	G1331	ASP	THR	THR	THR
				L699	L788	GLU	D1046	E1144	G1332	ASP	THR	THR	THR
				L700	L789	GLU	P1047	E1145	G1333	ASP	THR	THR	THR
				L701	L790	GLU	D1048	E1146	G1334	ASP	THR	THR	THR
				L702	L791	GLU	P1049	E1147	G1335	ASP	THR	THR	THR
				L703	L792	GLU	D1050	E1148	G1336	ASP	THR	THR	THR
				L704	L793	GLU	P1051	E1149	G1337	ASP	THR	THR	THR
				L705	L794	GLU	D1052	E1150	G1338	ASP	THR	THR	THR
				L706	L795	GLU	P1053	E1151	G1339	ASP	THR	THR	THR
				L707	L796	GLU	D1054	E1152	G1340	ASP	THR	THR	THR
				L708	L797	GLU	P1055	E1153	G1341	ASP	THR	THR	THR
				L709	L798	GLU	D1056	E1154	G1342	ASP	THR	THR	THR
				L710	L799	GLU	P1057	E1155	G1343	ASP	THR	THR	THR
				L711	L800	GLU	D1058	E1156	G1344	ASP	THR	THR	THR
				L712	L801	GLU	P1059	E1157	G1345	ASP	THR	THR	THR
				L713	L802	GLU	D1060	E1158	G1346	ASP	THR	THR	THR
				L714	L803	GLU	P1061	E1159	G1347	ASP	THR	THR	THR
				L715	L804	GLU	D1062	E1160	G1348	ASP	THR	THR	THR
				L716	L805	GLU	P1063	E1161	G1349	ASP	THR	THR	THR
				L717	L806	GLU	D1064	E1162	G1350	ASP	THR	THR	THR
	</												





- Molecule 1: Apaf-1 related killer DARK



VAL
VAL
GLY
ASN
LEU
VAL
LEU
GLU
LYS
ASN
GLY
GLY
VAL
ALA
ARG
ALA
ALA
THR
PRO
ILE
LEU
GLU
GLU
ALA
SER
SER

• Molecule 1: Apaf-1 related killer DARK

Chain O: 

MET	P87	K457	P246	P313	P382	I443	A507	H589	Q663	H799	I907	Y1035	G1200	PRO
ASP	L88	I158	V247	R314	I383	V444	M508	F590	H670	T800	F911	Y1036	T1201	ILE
PHE	R89	M159	Q248	E315	L386	D446	M509	T591		D811	D912	D1037	M1202	ALA
GLU	S90		N249	V316		H447	A510	N592		T812	P913	Q1051	E1208	ALA
THR	P91		A250	L317	S387	M448	G512	H593	L680	L816	Y914	Q1052	L1214	ASP
GLY	P92		K251	T318	L388	K449	S513	H597	M681		Y915	F1053		ASP
LEU	Y93		K252	T319	L389	K450	S514	Q598	Q682		K916	F1054		VAL
GLU	T94		K253	M320	W390	P451	L515	H599	CYS	F819	Y917	I1056	Q1223	ASP
			K254	P321	F391	K452	N516	R600	ASP	L829	P1057	P1057	L1224	VAL
			A255	R322	V393	F453	T517	Q601	GLY	L830	Y919	L1058	I1225	THR
			F256	R323	V392		L518	I602	ARG		L920	V1226	Y1226	PHE
			N257	L324	I394	D457	Q519	I603	ARG		C921	D1059	Y1227	VAL
			L258		K395	L458	Q520	I604	HIS	K833			I1228	ALA
				I331	S396	I459	L521	N604	SER	H834	Q927	K1062	E1229	ASP
				R332	V398	P460	K522	G606	GLY	S835	Y928	S1075	E1229	GLU
				D333	M399	P461	F523	D607	GLY	H836	Y929	I1068	L1240	PHE
				A336	V400	Y462	Y524	N608	SER	H837	H930		F1241	HIS
				T337	V401	L463			LYS	R838		A1071		PRO
				W338	V402	D464	Y527	Y615	GLN		T933		L1247	VAL
				K342	K407		Y535	L616	GLN	F841	Y933		L1247	ASN
				H343	K408	F467	E536	H617	LEU	L842	R946	H1074	L1249	ARG
				V344	Y403	H471	E537	G621	VAL		E947	S1075	S1250	GLY
				N345	S409	H474	L538	L622	N699	V847	W950	K1086	G1251	THR
				C346	A541	H475	L539	L625		Q850	Y951	I1087	A1252	ALA
				D347	N540	H476	V539	L626	F705		H952	I1088		GLU
				K348	V411	H477	A542	L629	I706		H953	E1111	C1256	LEU
				L349	K413	K476	L543	Q629	L712		W954	D1139	M1263	LEU
				T350	Q414	K477	D544	L631	G724	PRD	W955	S1140	R1264	ASN
				I351	P415	H478	F545	L632	L725	GLU	Y957			ASN
				I352	K416	H479	L546	L633			S958	L985		ARG
				I353	E417	H480	K548	T633	ALA	L862		L984		GLY
				E354	S418	H481	I549	D634	ASN	T863	V987	Y1158		ILE
				S355	T419	P482	E550	V635	LEU		D988	E1159		ARG
				S356	I420	R483	E551	S636	THR	K866		M1160		PRO
				L357	S421		N552	E638	Q731		R992	H1161		GLU
				N358	I422	T485	L553	G639	N738		Y993	I1162		LYS
				E361	P423	L486	I554	E640		H872				ARG
					S424	F487	C555	D641	I743	L874	H994	I1169		ALA
				E364	Y425	H488	S556	T642	V760	L875				CYS
				Y365	L427	H489	K557	Y643	L761	L876	A999	G1172		VAL
				R366	E428	F491	T559	L644	K762		I1000			LYS
				K367	L429	L492	D560	R646		S879	A1014	Y1177		PHE
				M368	K430	D493	L561	D647	G767	E880		E1182		VAL
				F369	V431	F494	L562	E648	I768	G881	K1019	E1183		GLY
				D370	K432	H495	R563		R769	L882				ASN
				R371	L433	F496	I564	S651	C770	I883				GLU
				L372	E434	L497	A565	L654	F771		A1022	K1188		ALA
				V374	N435	H498	L566	R655		V898	I1023	A1189		ARG
				F375	E436	Q499	L567	R656	V781	S899	F1026	S1192		THR
				P376	Y437		E571	M657	C782	E900	N1027			PHE
				F377	L439	R502	A572		T783	H901	D1028	V1195		PHE
				S378	H440	H503	I573			E903		A1196		ASP
				I381	R441	D504		F660	W791	C904		T1197		VAL
					S442	S505		M661	D792	V905		Q1030		ASP
						T506	V588	Q662		D906		I1031		HIS
												D1199		PHE
														ALA

SER	HIS	PHE	TRP	ALA	ILE	ASP	ASP	GLU	GLY	VAL	TYR	THR	HIS	LEU	GLN	LEU	GLY	PRO	GLU	LEU	SER	ARG	LEU	ALA	GLN	PRO	PRO	ASP	VAL	PRO	VAL	THR	LEU	ASP	ALA	ALA	ASN	GLN	TYR	GLU	ASP	LEU	LYS	ASN	LEU	ARG	VAL	ASP	VAL	VAL	GLY	ASN	ALA	ASP
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• Molecule 1: Apaf-1 related killer DARK

Chain P:  47% 35% 14%

MET	ASP	PHE	GLU	THR	GLY	H8	Q11	D14	I15	E20	D21	F23	V24	D28	D31	P36	I39	L40	S41	K42	E43	E44	I45	D46	D53	A54	Q57	T58	L59	M63	T64	S67	E70	V73	F76	E79	V80	I83	M84	T85	K86															
F87	L88	P89	S90	P91	T94	P99	S100	M101	M102	T103	R104	M105	Y106	E108	Q109	Y114	M115	N117	Q118	Y119	F120	K121	K122	Y123	N124	E125	S126	R127	P130	K133	L134	Q136	L141	R142	P143	M146	V147	L148	V149	D150	G151	L152	L153	G154	S155	G156	L157	T158	V159							
L162	D163	C165	Y168	K169	V170	C172	K173	M174	D175	F176	K177	F179	M180	L181	N182	L183	C186	N187	S188	E194	Q197	L200	W207	T208	S209	R210	S211	D212	N216	L221	H222	S223	L224	Q225	A226	E227	L231	S234	K235	P236	L241	L242	L244													
L245	M246	Q247	V248	N249	A250	K251	M252	N253	A255	F256	N257	L258	L262	L263	L264	T265	T266	T267	F268	K269	Q270	V271	F274	L275	L276	S277	T279	T280	L281	S284	L285	D286	H287	M290	T291	L292	T293	D295	E296	V297	K298	S299	L300	L301	L302	K303	C307	D311	L312	P313	R314					
E315	V316	L317	L318	T319	N320	P321	K322	L324	L331	F332	D333	A336	T337	K338	D339	N340	K341	K342	H343	V344	C345	C346	D347	K348	T350	L353	E354	L357	N358	E361	E364	Y365	R366	K367	M368	F369	L370	R371	L372	S373	V374	F375	P376	S378	L381	P382	T383	L386								
S387	L388	M389	V390	F391	D392	V393	L394	K395	D397	V398	K399	V400	V401	M403	K404	L405	H406	L407	L471	Y408	G472	H473	L474	L475	K476	M477	L478	E479	H480	P481	E482	M483	T485	L486	F487	R488	Y489	F490	L491	L492	M493	F494	M495	L496	E497	Q498	Q499	R502	H503	D504	H440	R441	S442	I443	V444	H446
Y447	M448	L449	P450	K451	T452	V453	F454	D457	L458	P459	K460	L461	L462	L463	D464	F467	Y468	S469	H470	L471	G472	H473	L474	L475	K476	M477	L478	E479	H480	P481	E482	M483	T485	L486	F487	R488	Y489	F490	L491	L492	M493	F494	M495	L496	E497	Q498	Q499	R502	H503	D504	H440	R441	S442	I443	V444	H446
S511	G512	S513	L514	L515	N516	T517	L518	Q519	K520	L521	K522	F523	Y524	Y527	Y535	E536	R537	L538	V539	N540	G541	I542	L543	D544	F545	L546	P547	K548	L549	E551	N552	L553	I554	C555	S556	E557	Y558	T559	L560	L561	L562	R563	L564	A565	L566	E571	A572	I573	F584	D585	E586	R587	V588	Q589	Q663	
F590	T591	M592	H593	H594	H595	Q596	R597	R600	Q601	L602	L603	M604	L605	G606	N608	Y615	L616	H617	F620	G621	L622	L625	Q629	L630	L631	L632	T633	D634	V635	S636	L637	E638	G639	E640	D641	T642	Y643	L644	L645	R646	D647	E648	S651	T654	L655	R656	M657	F660	M661	Q662	Q663					
H670	L680	M681	P682	ASP	CYS	PRO	GLY	ARG	ARG	ARG	HIS	SER	GLY	GLY	SER	LYS	GLN	GLN	VAL	M699	F705	I706	L712	F717	G724	L725	PRO	GLU	ASN	ALA	ASN	I730	Q731	E640	D641	T642	Y643	L644	L645	R646	D647	E648	S651	T654	L655	R656	M657	F660	M661	Q662	Q663					
N799	T800	D811	T812	L816	Y914	Y915	K916	F917	L918	L920	C921	Q927	Y928	E929	H930	T933	R946	E947	H950	Y951	H952	I957	L965	L964	V987	T988	D988	S989	R992	L993	H994	L995	L996	A999	I1000	N1009	N1010	P1011	A1014	K1019	E1020	H1021	C782	E903	C904	V905	D792	D906								
H1027	D1028	E1029	Q1030	I1031	Y1035	V1036	D1037	Q1051	F1052	F1053	I1054	E1055	E1056	I1057	I1058	D1059	K1062	I1068	A1071	H1074	S1075	K1086	I1087	D1094	L1098	E1111	D1139	S1140	L1149	Y1158	E1159	N1160	N1161	I1162	T1169	C1172	E1182	E1183	K1188	A1189	S1192															
V1195	A1196	T1201	M1202	E1208	L1214	Q1223	L1224	F1225	Y1226	I1227	E1229	L1240	F1241	L1247	L1248	I1249	S1250	A1252	C1256	M1263	A1264	ASN	GLN	LEU	GLU	ARG	GLU	GLN	LYS	ARG	ARG	SER	ARG	ARG	HIS	LYS	GLN	HIS	SER	VAL	THR	GLN	GLU	ASP	ALA	VAL										

ASP	ALA	ASP	ASP
ALA	HIS	GLU	GLY
ALA	PHE	ALA	ALA
PRO	SER	ASP	ASP
ILE	HIS	VAL	VAL
ALA	PHE	GLY	GLY
ALA	TYR	ASN	ASN
ASP	ALA	LEU	LEU
ILE	ILE	VAL	VAL
ASP	ASP	ASP	ASP
VAL	LEU	GLU	GLU
ASP	GLY	LYS	LYS
VAL	VAL	ASN	ASN
THR	PHE	THR	THR
PHE	TYR	GLY	GLY
VAL	TYR	HIS	HIS
ALA	HIS	LEU	LEU
ASP	ALA	GLN	GLN
GLU	LEU	LEU	LEU
THR	PHE	LEU	LEU
ILE	HIS	GLN	GLN
ALA	LEU	LEU	LEU
ASP	GLN	LEU	LEU
GLY	ARG	LEU	LEU
THR	ARG	GLN	GLN
ALA	ALA	PRO	PRO
GLU	GLU	PRO	PRO
LEU	LEU	ASP	ASP
TRP	TRP	PRO	PRO
ARG	ARG	VAL	VAL
ASN	ASN	THR	THR
LYS	LYS	LEU	LEU
GLY	GLY	ASP	ASP
ASN	ASN	ILE	ILE
ALA	ALA	ALA	ALA
ILE	ILE	ASN	ASN
ARG	ARG	GLN	GLN
PRO	PRO	TYR	TYR
GLU	GLU	GLU	GLU
LEU	LEU	ASP	ASP
LEU	LEU	LEU	LEU
ALA	ALA	LYS	LYS
CYS	CYS	ASN	ASN
VAL	VAL	LEU	LEU
LYS	LYS	ARG	ARG
PHE	PHE	ILE	ILE
VAL	VAL	LEU	LEU
GLY	GLY	ASP	ASP
ASN	ASN	SER	SER
GLU	GLU	PRO	PRO
ALA	ALA	LEU	LEU
ARG	ARG	MET	MET
GLN	GLN	GLN	GLN
PHE	PHE	ASP	ASP
THR	THR	SER	SER
ASP	ASP	ASP	ASP
		SER	SER

GLU	GLY	ALA	ASP	VAL	VAL	GLY	ASN	VAL	LEU	LEU	LYS	ASN	GLY	GLY	VAL	ALA	ARG	ALA	THR	PRO	ILE	LEU	GLU	GLU	ALA	SER	SER
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4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	17769	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2400	Depositor
Magnification	81000	Depositor
Image detector	Not provided	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	A	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	B	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	C	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	D	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	E	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	F	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	G	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	H	0.51	6/10231 (0.1%)	0.62	10/13873 (0.1%)
1	I	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	J	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	K	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	L	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	M	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	N	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	O	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	P	0.51	6/10231 (0.1%)	0.62	10/13873 (0.1%)
All	All	0.51	96/163696 (0.1%)	0.62	146/221968 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	15
1	B	0	15
1	C	0	15
1	D	0	15
1	E	0	15
1	F	0	15
1	G	0	15

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	H	0	15
1	I	0	15
1	J	0	15
1	K	0	15
1	L	0	15
1	M	0	15
1	N	0	15
1	O	0	15
1	P	0	15
All	All	0	240

All (96) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	250	ALA	CA-CB	-10.19	1.31	1.52
1	J	250	ALA	CA-CB	-10.19	1.31	1.52
1	F	250	ALA	CA-CB	-10.18	1.31	1.52
1	L	250	ALA	CA-CB	-10.17	1.31	1.52
1	B	250	ALA	CA-CB	-10.16	1.31	1.52
1	C	250	ALA	CA-CB	-10.16	1.31	1.52
1	E	250	ALA	CA-CB	-10.16	1.31	1.52
1	A	250	ALA	CA-CB	-10.15	1.31	1.52
1	H	250	ALA	CA-CB	-10.15	1.31	1.52
1	G	250	ALA	CA-CB	-10.15	1.31	1.52
1	I	250	ALA	CA-CB	-10.14	1.31	1.52
1	M	250	ALA	CA-CB	-10.14	1.31	1.52
1	O	250	ALA	CA-CB	-10.14	1.31	1.52
1	K	250	ALA	CA-CB	-10.14	1.31	1.52
1	D	250	ALA	CA-CB	-10.13	1.31	1.52
1	N	250	ALA	CA-CB	-10.12	1.31	1.52
1	L	252	ALA	CA-CB	-8.64	1.34	1.52
1	H	252	ALA	CA-CB	-8.64	1.34	1.52
1	J	252	ALA	CA-CB	-8.62	1.34	1.52
1	N	252	ALA	CA-CB	-8.62	1.34	1.52
1	P	252	ALA	CA-CB	-8.61	1.34	1.52
1	A	252	ALA	CA-CB	-8.60	1.34	1.52
1	B	252	ALA	CA-CB	-8.60	1.34	1.52
1	I	252	ALA	CA-CB	-8.60	1.34	1.52
1	C	252	ALA	CA-CB	-8.59	1.34	1.52
1	D	252	ALA	CA-CB	-8.59	1.34	1.52
1	G	252	ALA	CA-CB	-8.59	1.34	1.52
1	M	252	ALA	CA-CB	-8.58	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	252	ALA	CA-CB	-8.58	1.34	1.52
1	K	252	ALA	CA-CB	-8.58	1.34	1.52
1	F	252	ALA	CA-CB	-8.58	1.34	1.52
1	E	252	ALA	CA-CB	-8.57	1.34	1.52
1	O	414	GLN	C-N	6.97	1.47	1.34
1	P	414	GLN	C-N	6.94	1.47	1.34
1	D	414	GLN	C-N	6.94	1.47	1.34
1	I	414	GLN	C-N	6.93	1.47	1.34
1	F	414	GLN	C-N	6.92	1.47	1.34
1	B	414	GLN	C-N	6.92	1.47	1.34
1	G	414	GLN	C-N	6.92	1.47	1.34
1	A	414	GLN	C-N	6.92	1.47	1.34
1	E	414	GLN	C-N	6.92	1.47	1.34
1	M	414	GLN	C-N	6.91	1.47	1.34
1	K	414	GLN	C-N	6.91	1.47	1.34
1	J	414	GLN	C-N	6.91	1.47	1.34
1	N	414	GLN	C-N	6.91	1.47	1.34
1	C	414	GLN	C-N	6.89	1.47	1.34
1	H	414	GLN	C-N	6.88	1.47	1.34
1	L	414	GLN	C-N	6.87	1.47	1.34
1	E	559	THR	C-N	6.71	1.49	1.34
1	M	559	THR	C-N	6.71	1.49	1.34
1	D	559	THR	C-N	6.70	1.49	1.34
1	L	559	THR	C-N	6.70	1.49	1.34
1	N	559	THR	C-N	6.70	1.49	1.34
1	C	559	THR	C-N	6.69	1.49	1.34
1	I	559	THR	C-N	6.68	1.49	1.34
1	A	559	THR	C-N	6.68	1.49	1.34
1	B	559	THR	C-N	6.67	1.49	1.34
1	K	559	THR	C-N	6.66	1.49	1.34
1	P	559	THR	C-N	6.66	1.49	1.34
1	J	559	THR	C-N	6.66	1.49	1.34
1	H	559	THR	C-N	6.66	1.49	1.34
1	O	559	THR	C-N	6.66	1.49	1.34
1	F	559	THR	C-N	6.64	1.49	1.34
1	G	559	THR	C-N	6.64	1.49	1.34
1	K	250	ALA	CA-C	-5.75	1.38	1.52
1	G	250	ALA	CA-C	-5.74	1.38	1.52
1	B	250	ALA	CA-C	-5.73	1.38	1.52
1	M	250	ALA	CA-C	-5.73	1.38	1.52
1	O	250	ALA	CA-C	-5.73	1.38	1.52
1	E	250	ALA	CA-C	-5.73	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	250	ALA	CA-C	-5.72	1.38	1.52
1	A	250	ALA	CA-C	-5.72	1.38	1.52
1	J	250	ALA	CA-C	-5.72	1.38	1.52
1	D	250	ALA	CA-C	-5.72	1.38	1.52
1	C	250	ALA	CA-C	-5.71	1.38	1.52
1	P	250	ALA	CA-C	-5.71	1.38	1.52
1	H	250	ALA	CA-C	-5.70	1.38	1.52
1	L	250	ALA	CA-C	-5.70	1.38	1.52
1	F	250	ALA	CA-C	-5.70	1.38	1.52
1	I	250	ALA	CA-C	-5.68	1.38	1.52
1	H	508	TRP	CB-CG	-5.49	1.40	1.50
1	I	508	TRP	CB-CG	-5.47	1.40	1.50
1	E	508	TRP	CB-CG	-5.46	1.40	1.50
1	A	508	TRP	CB-CG	-5.44	1.40	1.50
1	K	508	TRP	CB-CG	-5.44	1.40	1.50
1	D	508	TRP	CB-CG	-5.44	1.40	1.50
1	J	508	TRP	CB-CG	-5.44	1.40	1.50
1	N	508	TRP	CB-CG	-5.44	1.40	1.50
1	F	508	TRP	CB-CG	-5.44	1.40	1.50
1	C	508	TRP	CB-CG	-5.43	1.40	1.50
1	L	508	TRP	CB-CG	-5.43	1.40	1.50
1	B	508	TRP	CB-CG	-5.42	1.40	1.50
1	M	508	TRP	CB-CG	-5.42	1.40	1.50
1	O	508	TRP	CB-CG	-5.42	1.40	1.50
1	G	508	TRP	CB-CG	-5.40	1.40	1.50
1	P	508	TRP	CB-CG	-5.39	1.40	1.50

All (146) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	559	THR	O-C-N	-7.67	110.42	122.70
1	L	559	THR	O-C-N	-7.66	110.44	122.70
1	N	559	THR	O-C-N	-7.66	110.44	122.70
1	J	559	THR	O-C-N	-7.65	110.46	122.70
1	D	559	THR	O-C-N	-7.65	110.46	122.70
1	I	559	THR	O-C-N	-7.65	110.47	122.70
1	C	559	THR	O-C-N	-7.64	110.47	122.70
1	A	559	THR	O-C-N	-7.64	110.48	122.70
1	O	559	THR	O-C-N	-7.64	110.48	122.70
1	P	559	THR	O-C-N	-7.64	110.48	122.70
1	F	559	THR	O-C-N	-7.64	110.48	122.70
1	G	559	THR	O-C-N	-7.63	110.49	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	559	THR	O-C-N	-7.63	110.49	122.70
1	B	559	THR	O-C-N	-7.62	110.51	122.70
1	H	559	THR	O-C-N	-7.62	110.52	122.70
1	K	559	THR	O-C-N	-7.61	110.52	122.70
1	L	414	GLN	O-C-N	7.59	135.52	121.10
1	I	414	GLN	O-C-N	7.58	135.50	121.10
1	P	414	GLN	O-C-N	7.57	135.49	121.10
1	C	414	GLN	O-C-N	7.57	135.49	121.10
1	K	414	GLN	O-C-N	7.57	135.49	121.10
1	F	414	GLN	O-C-N	7.57	135.48	121.10
1	J	414	GLN	O-C-N	7.56	135.46	121.10
1	A	414	GLN	O-C-N	7.56	135.46	121.10
1	N	414	GLN	O-C-N	7.56	135.46	121.10
1	G	414	GLN	O-C-N	7.55	135.45	121.10
1	M	414	GLN	O-C-N	7.55	135.44	121.10
1	E	414	GLN	O-C-N	7.54	135.43	121.10
1	O	414	GLN	O-C-N	7.54	135.43	121.10
1	B	414	GLN	O-C-N	7.54	135.42	121.10
1	D	414	GLN	O-C-N	7.53	135.41	121.10
1	H	414	GLN	O-C-N	7.53	135.41	121.10
1	N	559	THR	C-N-CA	7.42	140.24	121.70
1	M	559	THR	C-N-CA	7.41	140.23	121.70
1	P	559	THR	C-N-CA	7.41	140.23	121.70
1	C	559	THR	C-N-CA	7.40	140.20	121.70
1	J	559	THR	C-N-CA	7.40	140.20	121.70
1	F	559	THR	C-N-CA	7.40	140.20	121.70
1	I	559	THR	C-N-CA	7.40	140.20	121.70
1	L	559	THR	C-N-CA	7.40	140.20	121.70
1	K	559	THR	C-N-CA	7.40	140.19	121.70
1	A	559	THR	C-N-CA	7.39	140.19	121.70
1	O	559	THR	C-N-CA	7.39	140.19	121.70
1	B	559	THR	C-N-CA	7.39	140.18	121.70
1	D	559	THR	C-N-CA	7.39	140.17	121.70
1	G	559	THR	C-N-CA	7.39	140.17	121.70
1	H	559	THR	C-N-CA	7.39	140.17	121.70
1	E	559	THR	C-N-CA	7.38	140.16	121.70
1	J	458	LEU	CA-CB-CG	6.47	130.19	115.30
1	E	458	LEU	CA-CB-CG	6.47	130.18	115.30
1	G	458	LEU	CA-CB-CG	6.46	130.16	115.30
1	N	458	LEU	CA-CB-CG	6.46	130.15	115.30
1	D	458	LEU	CA-CB-CG	6.46	130.15	115.30
1	O	458	LEU	CA-CB-CG	6.45	130.14	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	458	LEU	CA-CB-CG	6.45	130.13	115.30
1	H	458	LEU	CA-CB-CG	6.45	130.13	115.30
1	B	458	LEU	CA-CB-CG	6.45	130.13	115.30
1	L	458	LEU	CA-CB-CG	6.45	130.12	115.30
1	K	458	LEU	CA-CB-CG	6.44	130.12	115.30
1	C	458	LEU	CA-CB-CG	6.44	130.11	115.30
1	F	458	LEU	CA-CB-CG	6.44	130.11	115.30
1	P	458	LEU	CA-CB-CG	6.43	130.09	115.30
1	I	458	LEU	CA-CB-CG	6.42	130.08	115.30
1	M	458	LEU	CA-CB-CG	6.42	130.08	115.30
1	N	559	THR	CA-C-N	5.74	129.82	117.20
1	C	559	THR	CA-C-N	5.74	129.82	117.20
1	F	559	THR	CA-C-N	5.74	129.82	117.20
1	H	559	THR	CA-C-N	5.73	129.81	117.20
1	L	559	THR	CA-C-N	5.73	129.81	117.20
1	O	559	THR	CA-C-N	5.73	129.81	117.20
1	B	559	THR	CA-C-N	5.73	129.80	117.20
1	J	559	THR	CA-C-N	5.73	129.80	117.20
1	A	559	THR	CA-C-N	5.72	129.79	117.20
1	G	559	THR	CA-C-N	5.72	129.79	117.20
1	P	559	THR	CA-C-N	5.72	129.79	117.20
1	M	559	THR	CA-C-N	5.72	129.78	117.20
1	I	559	THR	CA-C-N	5.72	129.78	117.20
1	E	559	THR	CA-C-N	5.71	129.77	117.20
1	K	559	THR	CA-C-N	5.71	129.77	117.20
1	D	559	THR	CA-C-N	5.71	129.76	117.20
1	C	252	ALA	C-N-CA	-5.27	108.53	121.70
1	B	252	ALA	C-N-CA	-5.26	108.55	121.70
1	E	252	ALA	C-N-CA	-5.26	108.55	121.70
1	G	252	ALA	C-N-CA	-5.26	108.55	121.70
1	A	252	ALA	C-N-CA	-5.26	108.56	121.70
1	I	252	ALA	C-N-CA	-5.26	108.56	121.70
1	O	252	ALA	C-N-CA	-5.25	108.56	121.70
1	D	252	ALA	C-N-CA	-5.25	108.56	121.70
1	F	252	ALA	C-N-CA	-5.25	108.57	121.70
1	K	252	ALA	C-N-CA	-5.25	108.57	121.70
1	M	252	ALA	C-N-CA	-5.25	108.57	121.70
1	N	252	ALA	C-N-CA	-5.25	108.57	121.70
1	P	252	ALA	C-N-CA	-5.25	108.57	121.70
1	H	252	ALA	C-N-CA	-5.25	108.57	121.70
1	J	252	ALA	C-N-CA	-5.25	108.58	121.70
1	L	252	ALA	C-N-CA	-5.24	108.60	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	258	LEU	CA-CB-CG	-5.17	103.41	115.30
1	D	258	LEU	CA-CB-CG	-5.16	103.42	115.30
1	G	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	J	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	L	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	N	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	A	258	LEU	CA-CB-CG	-5.15	103.45	115.30
1	K	258	LEU	CA-CB-CG	-5.15	103.45	115.30
1	P	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	C	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	H	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	I	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	M	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	F	258	LEU	CA-CB-CG	-5.14	103.47	115.30
1	O	258	LEU	CA-CB-CG	-5.14	103.47	115.30
1	E	258	LEU	CA-CB-CG	-5.14	103.48	115.30
1	E	517	THR	N-CA-C	5.13	124.86	111.00
1	J	517	THR	N-CA-C	5.13	124.86	111.00
1	F	517	THR	N-CA-C	5.12	124.84	111.00
1	D	517	THR	N-CA-C	5.12	124.82	111.00
1	A	517	THR	N-CA-C	5.12	124.82	111.00
1	L	517	THR	N-CA-C	5.12	124.82	111.00
1	C	517	THR	N-CA-C	5.11	124.80	111.00
1	K	517	THR	N-CA-C	5.11	124.81	111.00
1	I	517	THR	N-CA-C	5.11	124.80	111.00
1	B	517	THR	N-CA-C	5.10	124.78	111.00
1	H	517	THR	N-CA-C	5.10	124.78	111.00
1	N	517	THR	N-CA-C	5.10	124.77	111.00
1	P	517	THR	N-CA-C	5.10	124.77	111.00
1	M	517	THR	N-CA-C	5.10	124.77	111.00
1	O	517	THR	N-CA-C	5.10	124.77	111.00
1	G	517	THR	N-CA-C	5.10	124.76	111.00
1	C	320	ASN	N-CA-C	-5.09	97.25	111.00
1	P	320	ASN	N-CA-C	-5.08	97.28	111.00
1	G	320	ASN	N-CA-C	-5.08	97.28	111.00
1	M	320	ASN	N-CA-C	-5.08	97.29	111.00
1	D	320	ASN	N-CA-C	-5.08	97.30	111.00
1	L	320	ASN	N-CA-C	-5.08	97.29	111.00
1	N	320	ASN	N-CA-C	-5.08	97.30	111.00
1	O	320	ASN	N-CA-C	-5.07	97.30	111.00
1	E	320	ASN	N-CA-C	-5.07	97.30	111.00
1	H	320	ASN	N-CA-C	-5.07	97.31	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	320	ASN	N-CA-C	-5.07	97.31	111.00
1	F	320	ASN	N-CA-C	-5.07	97.31	111.00
1	B	320	ASN	N-CA-C	-5.06	97.33	111.00
1	J	320	ASN	N-CA-C	-5.06	97.33	111.00
1	I	320	ASN	N-CA-C	-5.06	97.35	111.00
1	K	320	ASN	N-CA-C	-5.06	97.35	111.00
1	P	241	LEU	CA-CB-CG	5.00	126.81	115.30
1	H	241	LEU	CA-CB-CG	5.00	126.80	115.30

There are no chirality outliers.

All (240) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	115	ASN	Peptide
1	A	123	TYR	Peptide
1	A	126	SER	Peptide
1	A	143	PRO	Peptide
1	A	236	PRO	Peptide
1	A	251	APK	Mainchain
1	A	252	ALA	Mainchain
1	A	428	GLU	Mainchain
1	A	431	VAL	Peptide
1	A	488	ARG	Peptide
1	A	511	SER	Peptide
1	A	551	GLU	Peptide
1	A	552	ASN	Peptide
1	A	556	SER	Peptide
1	A	8	HIS	Peptide
1	B	115	ASN	Peptide
1	B	123	TYR	Peptide
1	B	126	SER	Peptide
1	B	143	PRO	Peptide
1	B	236	PRO	Peptide
1	B	251	APK	Mainchain
1	B	252	ALA	Mainchain
1	B	428	GLU	Mainchain
1	B	431	VAL	Peptide
1	B	488	ARG	Peptide
1	B	511	SER	Peptide
1	B	551	GLU	Peptide
1	B	552	ASN	Peptide
1	B	556	SER	Peptide

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Mol	Chain	Res	Type	Group
1	B	8	HIS	Peptide
1	C	115	ASN	Peptide
1	C	123	TYR	Peptide
1	C	126	SER	Peptide
1	C	143	PRO	Peptide
1	C	236	PRO	Peptide
1	C	251	APK	Mainchain
1	C	252	ALA	Mainchain
1	C	428	GLU	Mainchain
1	C	431	VAL	Peptide
1	C	488	ARG	Peptide
1	C	511	SER	Peptide
1	C	551	GLU	Peptide
1	C	552	ASN	Peptide
1	C	556	SER	Peptide
1	C	8	HIS	Peptide
1	D	115	ASN	Peptide
1	D	123	TYR	Peptide
1	D	126	SER	Peptide
1	D	143	PRO	Peptide
1	D	236	PRO	Peptide
1	D	251	APK	Mainchain
1	D	252	ALA	Mainchain
1	D	428	GLU	Mainchain
1	D	431	VAL	Peptide
1	D	488	ARG	Peptide
1	D	511	SER	Peptide
1	D	551	GLU	Peptide
1	D	552	ASN	Peptide
1	D	556	SER	Peptide
1	D	8	HIS	Peptide
1	E	115	ASN	Peptide
1	E	123	TYR	Peptide
1	E	126	SER	Peptide
1	E	143	PRO	Peptide
1	E	236	PRO	Peptide
1	E	251	APK	Mainchain
1	E	252	ALA	Mainchain
1	E	428	GLU	Mainchain
1	E	431	VAL	Peptide
1	E	488	ARG	Peptide
1	E	511	SER	Peptide

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Mol	Chain	Res	Type	Group
1	E	551	GLU	Peptide
1	E	552	ASN	Peptide
1	E	556	SER	Peptide
1	E	8	HIS	Peptide
1	F	115	ASN	Peptide
1	F	123	TYR	Peptide
1	F	126	SER	Peptide
1	F	143	PRO	Peptide
1	F	236	PRO	Peptide
1	F	251	APK	Mainchain
1	F	252	ALA	Mainchain
1	F	428	GLU	Mainchain
1	F	431	VAL	Peptide
1	F	488	ARG	Peptide
1	F	511	SER	Peptide
1	F	551	GLU	Peptide
1	F	552	ASN	Peptide
1	F	556	SER	Peptide
1	F	8	HIS	Peptide
1	G	115	ASN	Peptide
1	G	123	TYR	Peptide
1	G	126	SER	Peptide
1	G	143	PRO	Peptide
1	G	236	PRO	Peptide
1	G	251	APK	Mainchain
1	G	252	ALA	Mainchain
1	G	428	GLU	Mainchain
1	G	431	VAL	Peptide
1	G	488	ARG	Peptide
1	G	511	SER	Peptide
1	G	551	GLU	Peptide
1	G	552	ASN	Peptide
1	G	556	SER	Peptide
1	G	8	HIS	Peptide
1	H	115	ASN	Peptide
1	H	123	TYR	Peptide
1	H	126	SER	Peptide
1	H	143	PRO	Peptide
1	H	236	PRO	Peptide
1	H	251	APK	Mainchain
1	H	252	ALA	Mainchain
1	H	428	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	H	431	VAL	Peptide
1	H	488	ARG	Peptide
1	H	511	SER	Peptide
1	H	551	GLU	Peptide
1	H	552	ASN	Peptide
1	H	556	SER	Peptide
1	H	8	HIS	Peptide
1	I	115	ASN	Peptide
1	I	123	TYR	Peptide
1	I	126	SER	Peptide
1	I	143	PRO	Peptide
1	I	236	PRO	Peptide
1	I	251	APK	Mainchain
1	I	252	ALA	Mainchain
1	I	428	GLU	Mainchain
1	I	431	VAL	Peptide
1	I	488	ARG	Peptide
1	I	511	SER	Peptide
1	I	551	GLU	Peptide
1	I	552	ASN	Peptide
1	I	556	SER	Peptide
1	I	8	HIS	Peptide
1	J	115	ASN	Peptide
1	J	123	TYR	Peptide
1	J	126	SER	Peptide
1	J	143	PRO	Peptide
1	J	236	PRO	Peptide
1	J	251	APK	Mainchain
1	J	252	ALA	Mainchain
1	J	428	GLU	Mainchain
1	J	431	VAL	Peptide
1	J	488	ARG	Peptide
1	J	511	SER	Peptide
1	J	551	GLU	Peptide
1	J	552	ASN	Peptide
1	J	556	SER	Peptide
1	J	8	HIS	Peptide
1	K	115	ASN	Peptide
1	K	123	TYR	Peptide
1	K	126	SER	Peptide
1	K	143	PRO	Peptide
1	K	236	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	K	251	APK	Mainchain
1	K	252	ALA	Mainchain
1	K	428	GLU	Mainchain
1	K	431	VAL	Peptide
1	K	488	ARG	Peptide
1	K	511	SER	Peptide
1	K	551	GLU	Peptide
1	K	552	ASN	Peptide
1	K	556	SER	Peptide
1	K	8	HIS	Peptide
1	L	115	ASN	Peptide
1	L	123	TYR	Peptide
1	L	126	SER	Peptide
1	L	143	PRO	Peptide
1	L	236	PRO	Peptide
1	L	251	APK	Mainchain
1	L	252	ALA	Mainchain
1	L	428	GLU	Mainchain
1	L	431	VAL	Peptide
1	L	488	ARG	Peptide
1	L	511	SER	Peptide
1	L	551	GLU	Peptide
1	L	552	ASN	Peptide
1	L	556	SER	Peptide
1	L	8	HIS	Peptide
1	M	115	ASN	Peptide
1	M	123	TYR	Peptide
1	M	126	SER	Peptide
1	M	143	PRO	Peptide
1	M	236	PRO	Peptide
1	M	251	APK	Mainchain
1	M	252	ALA	Mainchain
1	M	428	GLU	Mainchain
1	M	431	VAL	Peptide
1	M	488	ARG	Peptide
1	M	511	SER	Peptide
1	M	551	GLU	Peptide
1	M	552	ASN	Peptide
1	M	556	SER	Peptide
1	M	8	HIS	Peptide
1	N	115	ASN	Peptide
1	N	123	TYR	Peptide

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Mol	Chain	Res	Type	Group
1	N	126	SER	Peptide
1	N	143	PRO	Peptide
1	N	236	PRO	Peptide
1	N	251	APK	Mainchain
1	N	252	ALA	Mainchain
1	N	428	GLU	Mainchain
1	N	431	VAL	Peptide
1	N	488	ARG	Peptide
1	N	511	SER	Peptide
1	N	551	GLU	Peptide
1	N	552	ASN	Peptide
1	N	556	SER	Peptide
1	N	8	HIS	Peptide
1	O	115	ASN	Peptide
1	O	123	TYR	Peptide
1	O	126	SER	Peptide
1	O	143	PRO	Peptide
1	O	236	PRO	Peptide
1	O	251	APK	Mainchain
1	O	252	ALA	Mainchain
1	O	428	GLU	Mainchain
1	O	431	VAL	Peptide
1	O	488	ARG	Peptide
1	O	511	SER	Peptide
1	O	551	GLU	Peptide
1	O	552	ASN	Peptide
1	O	556	SER	Peptide
1	O	8	HIS	Peptide
1	P	115	ASN	Peptide
1	P	123	TYR	Peptide
1	P	126	SER	Peptide
1	P	143	PRO	Peptide
1	P	236	PRO	Peptide
1	P	251	APK	Mainchain
1	P	252	ALA	Mainchain
1	P	428	GLU	Mainchain
1	P	431	VAL	Peptide
1	P	488	ARG	Peptide
1	P	511	SER	Peptide
1	P	551	GLU	Peptide
1	P	552	ASN	Peptide
1	P	556	SER	Peptide

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Mol	Chain	Res	Type	Group
1	P	8	HIS	Peptide

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	A	10045	0	10046	666	0
1	B	10045	0	10046	684	0
1	C	10045	0	10046	679	0
1	D	10045	0	10046	692	0
1	E	10045	0	10046	670	0
1	F	10045	0	10046	692	0
1	G	10045	0	10046	683	0
1	H	10045	0	10046	661	0
1	I	10045	0	10046	671	0
1	J	10045	0	10046	666	0
1	K	10045	0	10046	694	0
1	L	10045	0	10046	686	0
1	M	10045	0	10045	674	0
1	N	10045	0	10046	662	0
1	O	10045	0	10046	666	0
1	P	10045	0	10046	672	0
2	A	30	0	9	6	0
2	B	30	0	9	7	0
2	C	30	0	9	6	0
2	D	30	0	9	6	0
2	E	30	0	9	6	0
2	F	30	0	9	6	0
2	G	30	0	9	6	0
2	H	30	0	9	6	0
2	I	30	0	9	6	0
2	J	30	0	9	6	0
2	K	30	0	9	6	0
2	L	30	0	9	6	0
2	M	30	0	9	6	0
2	N	30	0	9	6	0
2	O	30	0	9	6	0
2	P	30	0	9	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	161200	0	160879	10606	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 33.

All (10606) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:875:LEU:HD11	1:I:911:PHE:CE2	1.25	1.72
1:E:875:LEU:HD11	1:E:911:PHE:CE2	1.25	1.72
1:J:875:LEU:HD11	1:J:911:PHE:CE2	1.25	1.71
1:F:875:LEU:HD11	1:F:911:PHE:CE2	1.25	1.71
1:C:875:LEU:HD11	1:C:911:PHE:CE2	1.25	1.71
1:D:875:LEU:HD11	1:D:911:PHE:CE2	1.25	1.70
1:K:875:LEU:HD11	1:K:911:PHE:CE2	1.25	1.70
1:L:875:LEU:HD11	1:L:911:PHE:CE2	1.25	1.69
1:B:875:LEU:HD11	1:B:911:PHE:CE2	1.25	1.67
1:C:875:LEU:CD1	1:C:911:PHE:CE2	1.77	1.67
1:P:875:LEU:HD11	1:P:911:PHE:CE2	1.25	1.67
1:G:875:LEU:HD11	1:G:911:PHE:CE2	1.25	1.67
1:M:875:LEU:HD11	1:M:911:PHE:CE2	1.25	1.67
1:H:875:LEU:CD1	1:H:911:PHE:CE2	1.77	1.66
1:O:875:LEU:CD1	1:O:911:PHE:CE2	1.77	1.66
1:B:875:LEU:CD1	1:B:911:PHE:CE2	1.77	1.66
1:N:875:LEU:CD1	1:N:911:PHE:CE2	1.77	1.66
1:M:875:LEU:CD1	1:M:911:PHE:CE2	1.77	1.66
1:I:518:LEU:HD22	1:I:643:TYR:CD1	1.32	1.65
1:F:518:LEU:HD22	1:F:643:TYR:CD1	1.32	1.65
1:L:875:LEU:CD1	1:L:911:PHE:CE2	1.77	1.65
1:J:518:LEU:HD22	1:J:643:TYR:CD1	1.32	1.64
1:G:518:LEU:HD22	1:G:643:TYR:CD1	1.32	1.63
1:P:518:LEU:HD22	1:P:643:TYR:CD1	1.32	1.63
1:E:518:LEU:HD22	1:E:643:TYR:CD1	1.32	1.63
1:O:875:LEU:HD11	1:O:911:PHE:CE2	1.25	1.63
1:H:875:LEU:HD11	1:H:911:PHE:CE2	1.25	1.62
1:D:875:LEU:CD1	1:D:911:PHE:CE2	1.77	1.61
1:B:518:LEU:HD22	1:B:643:TYR:CD1	1.32	1.61
1:A:875:LEU:CD1	1:A:911:PHE:CE2	1.77	1.61
1:M:518:LEU:HD22	1:M:643:TYR:CD1	1.32	1.61
1:K:518:LEU:HD22	1:K:643:TYR:CD1	1.32	1.60
1:K:875:LEU:CD1	1:K:911:PHE:CE2	1.77	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:875:LEU:HD11	1:F:911:PHE:CD2	1.36	1.60
1:G:875:LEU:HD11	1:G:911:PHE:CD2	1.36	1.60
1:D:518:LEU:HD22	1:D:643:TYR:CD1	1.32	1.60
1:L:518:LEU:HD22	1:L:643:TYR:CD1	1.32	1.60
1:P:875:LEU:HD11	1:P:911:PHE:CD2	1.36	1.60
1:C:518:LEU:HD22	1:C:643:TYR:CD1	1.32	1.59
1:I:875:LEU:HD11	1:I:911:PHE:CD2	1.36	1.59
1:E:875:LEU:HD11	1:E:911:PHE:CD2	1.36	1.59
1:H:875:LEU:HD11	1:H:911:PHE:CD2	1.36	1.59
1:O:875:LEU:HD11	1:O:911:PHE:CD2	1.36	1.59
1:N:518:LEU:HD22	1:N:643:TYR:CD1	1.32	1.59
1:J:875:LEU:HD11	1:J:911:PHE:CD2	1.36	1.59
1:O:875:LEU:CD1	1:O:911:PHE:HE2	1.08	1.59
1:A:518:LEU:HD22	1:A:643:TYR:CD1	1.32	1.58
1:H:875:LEU:CD1	1:H:911:PHE:HE2	1.08	1.58
1:N:875:LEU:HD11	1:N:911:PHE:CE2	1.25	1.58
1:P:875:LEU:CD1	1:P:911:PHE:HE2	1.08	1.58
1:G:875:LEU:CD1	1:G:911:PHE:HE2	1.08	1.58
1:H:518:LEU:HD22	1:H:643:TYR:CD1	1.32	1.58
1:A:875:LEU:HD11	1:A:911:PHE:CE2	1.25	1.58
1:D:875:LEU:HD11	1:D:911:PHE:CD2	1.36	1.57
1:O:518:LEU:HD22	1:O:643:TYR:CD1	1.32	1.57
1:E:875:LEU:CD1	1:E:911:PHE:CE2	1.77	1.57
1:F:875:LEU:CD1	1:F:911:PHE:CE2	1.77	1.57
1:K:875:LEU:HD11	1:K:911:PHE:CD2	1.36	1.57
1:N:875:LEU:HD11	1:N:911:PHE:CD2	1.36	1.57
1:A:875:LEU:HD11	1:A:911:PHE:CD2	1.36	1.57
1:J:875:LEU:CD1	1:J:911:PHE:CE2	1.77	1.56
1:G:875:LEU:CD1	1:G:911:PHE:CE2	1.77	1.56
1:P:875:LEU:CD1	1:P:911:PHE:CE2	1.77	1.56
1:B:875:LEU:HD11	1:B:911:PHE:CD2	1.36	1.55
1:M:875:LEU:HD11	1:M:911:PHE:CD2	1.36	1.55
1:N:875:LEU:CD1	1:N:911:PHE:HE2	1.08	1.55
1:F:875:LEU:CD1	1:F:911:PHE:HE2	1.08	1.55
1:I:875:LEU:CD1	1:I:911:PHE:CE2	1.77	1.55
1:A:875:LEU:CD1	1:A:911:PHE:HE2	1.08	1.54
1:I:875:LEU:CD1	1:I:911:PHE:HE2	1.08	1.54
1:L:875:LEU:HD11	1:L:911:PHE:CD2	1.36	1.54
1:C:875:LEU:HD11	1:C:911:PHE:CD2	1.36	1.53
1:K:875:LEU:CD1	1:K:911:PHE:HE2	1.08	1.51
1:E:875:LEU:CD1	1:E:911:PHE:HE2	1.08	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:875:LEU:CD1	1:D:911:PHE:HE2	1.08	1.50
1:J:875:LEU:CD1	1:J:911:PHE:HE2	1.08	1.50
1:M:875:LEU:CD1	1:M:911:PHE:HE2	1.08	1.50
1:C:875:LEU:CD1	1:C:911:PHE:HE2	1.08	1.50
1:B:875:LEU:CD1	1:B:911:PHE:HE2	1.08	1.49
1:L:875:LEU:CD1	1:L:911:PHE:HE2	1.08	1.49
1:J:313:PRO:CB	1:J:338:TRP:HZ2	1.39	1.36
1:B:313:PRO:CB	1:B:338:TRP:HZ2	1.39	1.36
1:C:313:PRO:CB	1:C:338:TRP:HZ2	1.39	1.36
1:L:313:PRO:CB	1:L:338:TRP:HZ2	1.39	1.36
1:M:313:PRO:CB	1:M:338:TRP:HZ2	1.39	1.36
1:E:313:PRO:CB	1:E:338:TRP:HZ2	1.39	1.36
1:K:313:PRO:CB	1:K:338:TRP:HZ2	1.39	1.36
1:D:313:PRO:CB	1:D:338:TRP:HZ2	1.39	1.36
1:I:313:PRO:CB	1:I:338:TRP:HZ2	1.39	1.36
1:F:313:PRO:CB	1:F:338:TRP:HZ2	1.39	1.36
1:A:313:PRO:CB	1:A:338:TRP:HZ2	1.39	1.35
1:N:313:PRO:CB	1:N:338:TRP:HZ2	1.39	1.35
1:P:313:PRO:CB	1:P:338:TRP:HZ2	1.39	1.35
1:G:313:PRO:CB	1:G:338:TRP:HZ2	1.39	1.35
1:O:313:PRO:CB	1:O:338:TRP:HZ2	1.39	1.35
1:H:313:PRO:CB	1:H:338:TRP:HZ2	1.39	1.35
1:F:389:ILE:HD13	1:F:446:HIS:NE2	1.42	1.35
1:M:633:THR:HG21	1:M:642:THR:O	1.20	1.35
1:B:633:THR:HG21	1:B:642:THR:O	1.20	1.35
1:I:389:ILE:HD13	1:I:446:HIS:NE2	1.42	1.35
1:N:518:LEU:CD2	1:N:643:TYR:HD1	1.40	1.34
1:P:518:LEU:CD2	1:P:643:TYR:HD1	1.40	1.34
1:G:518:LEU:CD2	1:G:643:TYR:HD1	1.40	1.34
1:A:518:LEU:CD2	1:A:643:TYR:HD1	1.40	1.34
1:B:518:LEU:CD2	1:B:643:TYR:HD1	1.40	1.34
1:G:633:THR:HG21	1:G:642:THR:O	1.20	1.34
1:H:389:ILE:HD13	1:H:446:HIS:NE2	1.42	1.34
1:M:518:LEU:CD2	1:M:643:TYR:HD1	1.40	1.34
1:O:389:ILE:HD13	1:O:446:HIS:NE2	1.42	1.34
1:P:633:THR:HG21	1:P:642:THR:O	1.20	1.34
1:H:518:LEU:CD2	1:H:643:TYR:HD1	1.40	1.34
1:L:389:ILE:HD13	1:L:446:HIS:NE2	1.42	1.34
1:F:248:GLN:OE1	1:F:268:PHE:CE2	1.81	1.33
1:I:248:GLN:OE1	1:I:268:PHE:CE2	1.81	1.33
1:J:389:ILE:HD13	1:J:446:HIS:NE2	1.42	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:518:LEU:CD2	1:O:643:TYR:HD1	1.40	1.33
1:G:248:GLN:OE1	1:G:268:PHE:CE2	1.81	1.33
1:P:248:GLN:OE1	1:P:268:PHE:CE2	1.81	1.33
1:B:248:GLN:OE1	1:B:268:PHE:CE2	1.81	1.33
1:E:389:ILE:HD13	1:E:446:HIS:NE2	1.42	1.33
1:C:248:GLN:OE1	1:C:268:PHE:CE2	1.81	1.33
1:D:389:ILE:HD13	1:D:446:HIS:NE2	1.42	1.33
1:M:248:GLN:OE1	1:M:268:PHE:CE2	1.81	1.33
1:C:389:ILE:HD13	1:C:446:HIS:NE2	1.42	1.33
1:O:633:THR:HG21	1:O:642:THR:O	1.20	1.33
1:D:518:LEU:CD2	1:D:643:TYR:HD1	1.40	1.33
1:K:518:LEU:CD2	1:K:643:TYR:HD1	1.40	1.33
1:K:389:ILE:HD13	1:K:446:HIS:NE2	1.42	1.33
1:L:248:GLN:OE1	1:L:268:PHE:CE2	1.81	1.32
1:O:248:GLN:OE1	1:O:268:PHE:HE2	1.06	1.32
1:E:518:LEU:CD2	1:E:643:TYR:HD1	1.40	1.32
1:J:518:LEU:CD2	1:J:643:TYR:HD1	1.40	1.32
1:C:518:LEU:CD2	1:C:643:TYR:HD1	1.40	1.32
1:H:633:THR:HG21	1:H:642:THR:O	1.20	1.32
1:B:389:ILE:HD13	1:B:446:HIS:NE2	1.42	1.32
1:L:518:LEU:CD2	1:L:643:TYR:HD1	1.40	1.32
1:B:462:TYR:CE2	1:B:494:PHE:HE1	1.47	1.32
1:M:462:TYR:CE2	1:M:494:PHE:HE1	1.47	1.32
1:M:389:ILE:HD13	1:M:446:HIS:NE2	1.42	1.32
1:N:462:TYR:CE2	1:N:494:PHE:HE1	1.47	1.32
1:E:248:GLN:OE1	1:E:268:PHE:CE2	1.81	1.32
1:H:248:GLN:OE1	1:H:268:PHE:HE2	1.06	1.32
1:A:462:TYR:CE2	1:A:494:PHE:HE1	1.47	1.32
1:C:462:TYR:CE2	1:C:494:PHE:HE1	1.47	1.31
1:J:248:GLN:OE1	1:J:268:PHE:CE2	1.81	1.31
1:N:248:GLN:OE1	1:N:268:PHE:HE2	1.06	1.31
1:A:248:GLN:OE1	1:A:268:PHE:CE2	1.81	1.31
1:O:248:GLN:OE1	1:O:268:PHE:CE2	1.81	1.31
1:I:518:LEU:CD2	1:I:643:TYR:HD1	1.40	1.31
1:P:248:GLN:OE1	1:P:268:PHE:HE2	1.06	1.31
1:H:248:GLN:OE1	1:H:268:PHE:CE2	1.81	1.31
1:N:248:GLN:OE1	1:N:268:PHE:CE2	1.81	1.31
1:O:462:TYR:CE2	1:O:494:PHE:HE1	1.47	1.31
1:D:462:TYR:CE2	1:D:494:PHE:HE1	1.47	1.31
1:F:518:LEU:CD2	1:F:643:TYR:HD1	1.40	1.31
1:K:462:TYR:CE2	1:K:494:PHE:HE1	1.47	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:462:TYR:CE2	1:H:494:PHE:HE1	1.47	1.31
1:L:462:TYR:CE2	1:L:494:PHE:HE1	1.47	1.31
1:A:248:GLN:OE1	1:A:268:PHE:HE2	1.06	1.31
1:G:389:ILE:HD13	1:G:446:HIS:NE2	1.42	1.31
1:G:248:GLN:OE1	1:G:268:PHE:HE2	1.06	1.30
1:I:462:TYR:CE2	1:I:494:PHE:HE1	1.47	1.30
1:G:462:TYR:CE2	1:G:494:PHE:HE1	1.47	1.30
1:K:248:GLN:OE1	1:K:268:PHE:CE2	1.81	1.30
1:P:389:ILE:HD13	1:P:446:HIS:NE2	1.42	1.30
1:P:462:TYR:CE2	1:P:494:PHE:HE1	1.47	1.30
1:D:248:GLN:OE1	1:D:268:PHE:CE2	1.81	1.30
1:E:462:TYR:CE2	1:E:494:PHE:HE1	1.47	1.30
1:N:389:ILE:HD13	1:N:446:HIS:NE2	1.42	1.30
1:A:633:THR:HG21	1:A:642:THR:O	1.20	1.30
1:F:462:TYR:CE2	1:F:494:PHE:HE1	1.47	1.30
1:I:248:GLN:OE1	1:I:268:PHE:HE2	1.06	1.30
1:J:462:TYR:CE2	1:J:494:PHE:HE1	1.47	1.30
1:A:389:ILE:HD13	1:A:446:HIS:NE2	1.42	1.30
1:M:248:GLN:OE1	1:M:268:PHE:HE2	1.06	1.30
1:N:633:THR:HG21	1:N:642:THR:O	1.20	1.29
1:J:248:GLN:OE1	1:J:268:PHE:HE2	1.06	1.29
1:B:248:GLN:OE1	1:B:268:PHE:HE2	1.06	1.29
1:L:248:GLN:OE1	1:L:268:PHE:HE2	1.06	1.29
1:K:248:GLN:OE1	1:K:268:PHE:HE2	1.06	1.29
1:F:248:GLN:OE1	1:F:268:PHE:HE2	1.06	1.29
1:E:248:GLN:OE1	1:E:268:PHE:HE2	1.06	1.28
1:C:248:GLN:OE1	1:C:268:PHE:HE2	1.06	1.28
1:D:248:GLN:OE1	1:D:268:PHE:HE2	1.06	1.28
1:D:633:THR:HG21	1:D:642:THR:O	1.20	1.28
1:K:633:THR:HG21	1:K:642:THR:O	1.20	1.27
1:E:633:THR:HG21	1:E:642:THR:O	1.20	1.27
1:D:313:PRO:CA	1:D:338:TRP:HZ2	1.48	1.27
1:F:633:THR:HG21	1:F:642:THR:O	1.20	1.27
1:I:633:THR:HG21	1:I:642:THR:O	1.20	1.27
1:K:313:PRO:CA	1:K:338:TRP:HZ2	1.48	1.27
1:J:633:THR:HG21	1:J:642:THR:O	1.20	1.27
1:O:313:PRO:CA	1:O:338:TRP:HZ2	1.48	1.27
1:J:313:PRO:CA	1:J:338:TRP:HZ2	1.48	1.27
1:E:313:PRO:CA	1:E:338:TRP:HZ2	1.48	1.26
1:H:313:PRO:CA	1:H:338:TRP:HZ2	1.48	1.26
1:C:633:THR:HG21	1:C:642:THR:O	1.20	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:313:PRO:CA	1:N:338:TRP:HZ2	1.48	1.26
1:A:313:PRO:CA	1:A:338:TRP:HZ2	1.48	1.26
1:C:313:PRO:CA	1:C:338:TRP:HZ2	1.48	1.26
1:I:313:PRO:CA	1:I:338:TRP:HZ2	1.48	1.26
1:L:313:PRO:CA	1:L:338:TRP:HZ2	1.48	1.26
1:F:313:PRO:CA	1:F:338:TRP:HZ2	1.48	1.26
1:G:313:PRO:CA	1:G:338:TRP:HZ2	1.48	1.26
1:P:313:PRO:CA	1:P:338:TRP:HZ2	1.48	1.26
1:L:633:THR:HG21	1:L:642:THR:O	1.20	1.25
1:M:313:PRO:CA	1:M:338:TRP:HZ2	1.48	1.25
1:B:313:PRO:CA	1:B:338:TRP:HZ2	1.48	1.25
1:B:121:ALA:HB1	1:C:276:SER:CB	1.67	1.23
1:L:212:ASP:OD2	1:M:209:SER:OG	1.57	1.23
1:B:508:TRP:CA	1:B:606:GLY:HA3	1.70	1.22
1:M:508:TRP:CA	1:M:606:GLY:HA3	1.70	1.22
1:L:508:TRP:CA	1:L:606:GLY:HA3	1.70	1.22
1:C:508:TRP:CA	1:C:606:GLY:HA3	1.70	1.22
1:E:508:TRP:CA	1:E:606:GLY:HA3	1.70	1.22
1:I:508:TRP:CA	1:I:606:GLY:HA3	1.70	1.22
1:J:508:TRP:CA	1:J:606:GLY:HA3	1.70	1.22
1:D:508:TRP:CA	1:D:606:GLY:HA3	1.70	1.21
1:K:508:TRP:CA	1:K:606:GLY:HA3	1.70	1.21
1:A:508:TRP:CA	1:A:606:GLY:HA3	1.70	1.21
1:N:508:TRP:CA	1:N:606:GLY:HA3	1.70	1.21
1:F:508:TRP:CA	1:F:606:GLY:HA3	1.70	1.21
1:P:508:TRP:CA	1:P:606:GLY:HA3	1.70	1.21
1:B:313:PRO:HA	1:B:338:TRP:CZ2	1.77	1.20
1:G:508:TRP:CA	1:G:606:GLY:HA3	1.70	1.20
1:M:313:PRO:HA	1:M:338:TRP:CZ2	1.77	1.20
1:C:313:PRO:HA	1:C:338:TRP:CZ2	1.77	1.20
1:D:251:APK:O	1:D:253:TRP:N	1.75	1.20
1:K:251:APK:O	1:K:253:TRP:N	1.75	1.20
1:L:313:PRO:HA	1:L:338:TRP:CZ2	1.77	1.20
1:A:313:PRO:HA	1:A:338:TRP:CZ2	1.77	1.20
1:H:508:TRP:CA	1:H:606:GLY:HA3	1.70	1.20
1:N:313:PRO:HA	1:N:338:TRP:CZ2	1.77	1.20
1:O:508:TRP:CA	1:O:606:GLY:HA3	1.70	1.20
1:L:276:SER:HB3	1:M:121:ALA:HB1	1.20	1.20
1:D:313:PRO:HA	1:D:338:TRP:CZ2	1.77	1.20
1:I:313:PRO:CA	1:I:338:TRP:CZ2	2.25	1.20
1:F:313:PRO:CA	1:F:338:TRP:CZ2	2.25	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:313:PRO:CA	1:H:338:TRP:CZ2	2.25	1.19
1:I:313:PRO:HA	1:I:338:TRP:CZ2	1.77	1.19
1:N:251:APK:O	1:N:253:TRP:N	1.75	1.19
1:A:251:APK:O	1:A:253:TRP:N	1.75	1.19
1:F:251:APK:O	1:F:253:TRP:N	1.75	1.19
1:F:313:PRO:HA	1:F:338:TRP:CZ2	1.77	1.19
1:K:313:PRO:HA	1:K:338:TRP:CZ2	1.77	1.19
1:J:313:PRO:CB	1:J:338:TRP:CZ2	2.26	1.19
1:O:313:PRO:CA	1:O:338:TRP:CZ2	2.25	1.19
1:C:313:PRO:CB	1:C:338:TRP:CZ2	2.26	1.19
1:E:313:PRO:CB	1:E:338:TRP:CZ2	2.26	1.19
1:L:313:PRO:CB	1:L:338:TRP:CZ2	2.26	1.19
1:G:251:APK:O	1:G:253:TRP:N	1.75	1.19
1:A:313:PRO:CB	1:A:338:TRP:CZ2	2.26	1.19
1:G:313:PRO:HA	1:G:338:TRP:CZ2	1.77	1.19
1:J:251:APK:O	1:J:253:TRP:N	1.75	1.19
1:P:251:APK:O	1:P:253:TRP:N	1.75	1.19
1:H:251:APK:O	1:H:253:TRP:N	1.75	1.19
1:N:313:PRO:CB	1:N:338:TRP:CZ2	2.26	1.19
1:O:313:PRO:HA	1:O:338:TRP:CZ2	1.77	1.19
1:P:313:PRO:CB	1:P:338:TRP:CZ2	2.26	1.19
1:E:251:APK:O	1:E:253:TRP:N	1.75	1.19
1:F:313:PRO:CB	1:F:338:TRP:CZ2	2.26	1.19
1:G:313:PRO:CB	1:G:338:TRP:CZ2	2.26	1.19
1:I:251:APK:O	1:I:253:TRP:N	1.75	1.19
1:P:313:PRO:HA	1:P:338:TRP:CZ2	1.77	1.19
1:E:313:PRO:CA	1:E:338:TRP:CZ2	2.25	1.19
1:J:313:PRO:HA	1:J:338:TRP:CZ2	1.77	1.19
1:O:251:APK:O	1:O:253:TRP:N	1.75	1.19
1:H:313:PRO:HA	1:H:338:TRP:CZ2	1.77	1.18
1:C:251:APK:O	1:C:253:TRP:N	1.75	1.18
1:J:313:PRO:CA	1:J:338:TRP:CZ2	2.25	1.18
1:M:313:PRO:CB	1:M:338:TRP:CZ2	2.26	1.18
1:N:313:PRO:CA	1:N:338:TRP:CZ2	2.25	1.18
1:B:313:PRO:CB	1:B:338:TRP:CZ2	2.26	1.18
1:I:313:PRO:CB	1:I:338:TRP:CZ2	2.26	1.18
1:A:313:PRO:CA	1:A:338:TRP:CZ2	2.25	1.18
1:E:313:PRO:HA	1:E:338:TRP:CZ2	1.77	1.18
1:C:313:PRO:CA	1:C:338:TRP:CZ2	2.25	1.17
1:D:313:PRO:CA	1:D:338:TRP:CZ2	2.25	1.17
1:G:313:PRO:CA	1:G:338:TRP:CZ2	2.25	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:313:PRO:CA	1:K:338:TRP:CZ2	2.25	1.17
1:L:251:APK:O	1:L:253:TRP:N	1.75	1.17
1:M:251:APK:O	1:M:253:TRP:N	1.75	1.17
1:B:251:APK:O	1:B:253:TRP:N	1.75	1.17
1:D:313:PRO:CB	1:D:338:TRP:CZ2	2.26	1.17
1:K:313:PRO:CB	1:K:338:TRP:CZ2	2.26	1.17
1:P:313:PRO:CA	1:P:338:TRP:CZ2	2.25	1.17
1:B:313:PRO:CA	1:B:338:TRP:CZ2	2.25	1.17
1:L:313:PRO:CA	1:L:338:TRP:CZ2	2.25	1.17
1:M:313:PRO:CA	1:M:338:TRP:CZ2	2.25	1.17
1:C:209:SER:OG	1:D:212:ASP:OD2	1.62	1.17
1:G:508:TRP:HA	1:G:606:GLY:CA	1.75	1.17
1:P:508:TRP:HA	1:P:606:GLY:CA	1.75	1.17
1:H:313:PRO:CB	1:H:338:TRP:CZ2	2.26	1.17
1:N:389:ILE:HD13	1:N:446:HIS:CE1	1.80	1.17
1:O:313:PRO:CB	1:O:338:TRP:CZ2	2.26	1.17
1:A:389:ILE:HD13	1:A:446:HIS:CE1	1.80	1.16
1:F:508:TRP:HA	1:F:606:GLY:CA	1.75	1.16
1:P:442:SER:O	1:P:446:HIS:CD2	1.98	1.16
1:E:389:ILE:HD13	1:E:446:HIS:CE1	1.80	1.16
1:G:442:SER:O	1:G:446:HIS:CD2	1.98	1.16
1:H:442:SER:O	1:H:446:HIS:CD2	1.98	1.16
1:I:508:TRP:HA	1:I:606:GLY:CA	1.75	1.16
1:J:389:ILE:HD13	1:J:446:HIS:CE1	1.80	1.16
1:O:442:SER:O	1:O:446:HIS:CD2	1.98	1.16
1:F:389:ILE:HD13	1:F:446:HIS:CE1	1.80	1.16
1:O:508:TRP:HA	1:O:606:GLY:CA	1.75	1.16
1:O:389:ILE:HD13	1:O:446:HIS:CE1	1.80	1.16
1:H:508:TRP:HA	1:H:606:GLY:CA	1.75	1.16
1:E:508:TRP:HA	1:E:606:GLY:CA	1.75	1.16
1:H:389:ILE:HD13	1:H:446:HIS:CE1	1.80	1.16
1:M:442:SER:O	1:M:446:HIS:CD2	1.98	1.16
1:A:442:SER:O	1:A:446:HIS:CD2	1.98	1.16
1:B:442:SER:O	1:B:446:HIS:CD2	1.98	1.16
1:E:209:SER:OG	1:F:212:ASP:OD2	1.63	1.16
1:K:389:ILE:HD13	1:K:446:HIS:CE1	1.80	1.16
1:B:389:ILE:HD13	1:B:446:HIS:CE1	1.80	1.16
1:D:389:ILE:HD13	1:D:446:HIS:CE1	1.80	1.16
1:J:508:TRP:HA	1:J:606:GLY:CA	1.75	1.16
1:M:389:ILE:HD13	1:M:446:HIS:CE1	1.80	1.16
1:N:442:SER:O	1:N:446:HIS:CD2	1.98	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:389:ILE:HD13	1:I:446:HIS:CE1	1.80	1.16
1:O:276:SER:HB3	1:P:121:ALA:HB1	1.24	1.16
1:C:442:SER:O	1:C:446:HIS:CD2	1.98	1.15
1:C:508:TRP:HA	1:C:606:GLY:CA	1.75	1.15
1:K:276:SER:HB3	1:L:121:ALA:HB1	1.23	1.15
1:B:508:TRP:HA	1:B:606:GLY:CA	1.75	1.15
1:D:508:TRP:HA	1:D:606:GLY:CA	1.75	1.15
1:F:442:SER:O	1:F:446:HIS:CD2	1.98	1.15
1:I:442:SER:O	1:I:446:HIS:CD2	1.98	1.15
1:K:508:TRP:HA	1:K:606:GLY:CA	1.75	1.15
1:L:508:TRP:HA	1:L:606:GLY:CA	1.75	1.15
1:M:508:TRP:HA	1:M:606:GLY:CA	1.75	1.15
1:K:442:SER:O	1:K:446:HIS:CD2	1.98	1.15
1:L:442:SER:O	1:L:446:HIS:CD2	1.98	1.15
1:D:442:SER:O	1:D:446:HIS:CD2	1.98	1.15
1:N:508:TRP:HA	1:N:606:GLY:CA	1.75	1.15
1:P:389:ILE:HD13	1:P:446:HIS:CE1	1.80	1.15
1:G:389:ILE:HD13	1:G:446:HIS:CE1	1.80	1.15
1:A:508:TRP:HA	1:A:606:GLY:CA	1.75	1.15
1:A:276:SER:HB3	1:H:121:ALA:HB1	1.21	1.14
1:G:121:ALA:HB1	1:H:276:SER:HB3	1.21	1.14
1:E:442:SER:O	1:E:446:HIS:CD2	1.98	1.14
1:J:442:SER:O	1:J:446:HIS:CD2	1.98	1.14
1:L:389:ILE:HD13	1:L:446:HIS:CE1	1.80	1.14
1:M:276:SER:HB3	1:N:121:ALA:HB1	1.21	1.14
1:F:633:THR:CG2	1:F:642:THR:O	1.96	1.14
1:G:633:THR:CG2	1:G:642:THR:O	1.96	1.14
1:P:633:THR:CG2	1:P:642:THR:O	1.96	1.14
1:I:633:THR:CG2	1:I:642:THR:O	1.96	1.14
1:C:389:ILE:HD13	1:C:446:HIS:CE1	1.80	1.13
1:N:276:SER:HB3	1:O:121:ALA:HB1	1.19	1.13
1:N:633:THR:CG2	1:N:642:THR:O	1.96	1.13
1:A:633:THR:CG2	1:A:642:THR:O	1.96	1.13
1:N:622:LEU:HB2	1:N:634:ASP:HB2	1.31	1.13
1:D:121:ALA:HB1	1:E:276:SER:HB3	1.14	1.12
1:F:622:LEU:HB2	1:F:634:ASP:HB2	1.31	1.12
1:I:622:LEU:HB2	1:I:634:ASP:HB2	1.31	1.12
1:H:622:LEU:HB2	1:H:634:ASP:HB2	1.31	1.12
1:A:622:LEU:HB2	1:A:634:ASP:HB2	1.31	1.12
1:E:622:LEU:HB2	1:E:634:ASP:HB2	1.31	1.12
1:O:622:LEU:HB2	1:O:634:ASP:HB2	1.31	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:622:LEU:HB2	1:J:634:ASP:HB2	1.31	1.12
1:H:633:THR:CG2	1:H:642:THR:O	1.96	1.12
1:P:622:LEU:HB2	1:P:634:ASP:HB2	1.31	1.12
1:B:633:THR:CG2	1:B:642:THR:O	1.96	1.12
1:E:504:ASP:OD1	1:E:608:ASN:ND2	1.83	1.12
1:G:622:LEU:HB2	1:G:634:ASP:HB2	1.31	1.12
1:J:504:ASP:OD1	1:J:608:ASN:ND2	1.83	1.12
1:A:378:SER:H	1:A:422:ILE:CD1	1.63	1.12
1:K:633:THR:CG2	1:K:642:THR:O	1.96	1.12
1:O:633:THR:CG2	1:O:642:THR:O	1.96	1.12
1:M:633:THR:CG2	1:M:642:THR:O	1.96	1.12
1:D:633:THR:CG2	1:D:642:THR:O	1.96	1.12
1:H:378:SER:H	1:H:422:ILE:CD1	1.63	1.12
1:J:633:THR:CG2	1:J:642:THR:O	1.96	1.12
1:N:378:SER:H	1:N:422:ILE:CD1	1.63	1.12
1:O:378:SER:H	1:O:422:ILE:CD1	1.63	1.12
1:E:633:THR:CG2	1:E:642:THR:O	1.96	1.11
1:B:378:SER:H	1:B:422:ILE:CD1	1.63	1.11
1:G:378:SER:H	1:G:422:ILE:CD1	1.63	1.11
1:N:504:ASP:OD1	1:N:608:ASN:ND2	1.83	1.11
1:O:504:ASP:OD1	1:O:608:ASN:ND2	1.83	1.11
1:A:504:ASP:OD1	1:A:608:ASN:ND2	1.83	1.11
1:C:633:THR:CG2	1:C:642:THR:O	1.96	1.11
1:F:462:TYR:CE2	1:F:494:PHE:CE1	2.39	1.11
1:F:504:ASP:OD1	1:F:608:ASN:ND2	1.83	1.11
1:I:462:TYR:CE2	1:I:494:PHE:CE1	2.39	1.11
1:J:462:TYR:CE2	1:J:494:PHE:CE1	2.39	1.11
1:M:378:SER:H	1:M:422:ILE:CD1	1.63	1.11
1:P:378:SER:H	1:P:422:ILE:CD1	1.63	1.11
1:D:504:ASP:OD1	1:D:608:ASN:ND2	1.83	1.11
1:E:462:TYR:CE2	1:E:494:PHE:CE1	2.39	1.11
1:H:504:ASP:OD1	1:H:608:ASN:ND2	1.83	1.11
1:K:504:ASP:OD1	1:K:608:ASN:ND2	1.83	1.11
1:I:504:ASP:OD1	1:I:608:ASN:ND2	1.83	1.11
1:L:633:THR:CG2	1:L:642:THR:O	1.96	1.11
1:I:276:SER:HB3	1:J:121:ALA:HB1	1.21	1.11
1:L:504:ASP:OD1	1:L:608:ASN:ND2	1.83	1.11
1:C:378:SER:H	1:C:422:ILE:CD1	1.63	1.11
1:F:378:SER:H	1:F:422:ILE:CD1	1.63	1.11
1:L:622:LEU:HB2	1:L:634:ASP:HB2	1.31	1.11
1:M:504:ASP:OD1	1:M:608:ASN:ND2	1.83	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:504:ASP:OD1	1:B:608:ASN:ND2	1.83	1.11
1:I:314:ARG:O	1:I:315:GLU:HG3	1.51	1.11
1:E:314:ARG:O	1:E:315:GLU:HG3	1.51	1.10
1:H:314:ARG:O	1:H:315:GLU:HG3	1.51	1.10
1:L:462:TYR:CE2	1:L:494:PHE:CE1	2.39	1.10
1:F:314:ARG:O	1:F:315:GLU:HG3	1.51	1.10
1:I:378:SER:H	1:I:422:ILE:CD1	1.63	1.10
1:J:314:ARG:O	1:J:315:GLU:HG3	1.51	1.10
1:K:378:SER:H	1:K:422:ILE:CD1	1.63	1.10
1:L:378:SER:H	1:L:422:ILE:CD1	1.63	1.10
1:C:504:ASP:OD1	1:C:608:ASN:ND2	1.83	1.10
1:D:378:SER:H	1:D:422:ILE:CD1	1.63	1.10
1:J:378:SER:H	1:J:422:ILE:CD1	1.63	1.10
1:O:314:ARG:O	1:O:315:GLU:HG3	1.51	1.10
1:E:378:SER:H	1:E:422:ILE:CD1	1.63	1.10
1:C:462:TYR:CE2	1:C:494:PHE:CE1	2.39	1.10
1:M:622:LEU:HB2	1:M:634:ASP:HB2	1.31	1.10
1:C:622:LEU:HB2	1:C:634:ASP:HB2	1.31	1.10
1:K:462:TYR:CE2	1:K:494:PHE:CE1	2.39	1.10
1:K:622:LEU:HB2	1:K:634:ASP:HB2	1.31	1.10
1:P:504:ASP:OD1	1:P:608:ASN:ND2	1.83	1.10
1:D:462:TYR:CE2	1:D:494:PHE:CE1	2.39	1.10
1:D:622:LEU:HB2	1:D:634:ASP:HB2	1.31	1.10
1:G:462:TYR:CE2	1:G:494:PHE:CE1	2.39	1.10
1:A:462:TYR:CE2	1:A:494:PHE:CE1	2.39	1.09
1:B:462:TYR:CE2	1:B:494:PHE:CE1	2.38	1.09
1:G:504:ASP:OD1	1:G:608:ASN:ND2	1.83	1.09
1:K:314:ARG:O	1:K:315:GLU:HG3	1.51	1.09
1:M:462:TYR:CE2	1:M:494:PHE:CE1	2.39	1.09
1:N:462:TYR:CE2	1:N:494:PHE:CE1	2.38	1.09
1:O:462:TYR:CE2	1:O:494:PHE:CE1	2.39	1.09
1:P:314:ARG:O	1:P:315:GLU:HG3	1.51	1.09
1:P:462:TYR:CE2	1:P:494:PHE:CE1	2.38	1.09
1:B:622:LEU:HB2	1:B:634:ASP:HB2	1.31	1.09
1:F:14:ASP:OD2	1:G:142:ARG:NH1	1.83	1.09
1:G:314:ARG:O	1:G:315:GLU:HG3	1.51	1.09
1:H:462:TYR:CE2	1:H:494:PHE:CE1	2.39	1.09
1:C:462:TYR:CZ	1:C:494:PHE:CE1	2.41	1.09
1:D:314:ARG:O	1:D:315:GLU:HG3	1.51	1.09
1:O:462:TYR:CZ	1:O:494:PHE:CE1	2.41	1.09
1:H:462:TYR:CZ	1:H:494:PHE:CE1	2.41	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:462:TYR:CZ	1:L:494:PHE:CE1	2.41	1.09
1:P:462:TYR:CZ	1:P:494:PHE:CE1	2.41	1.09
1:D:462:TYR:CZ	1:D:494:PHE:CE1	2.41	1.09
1:G:462:TYR:CZ	1:G:494:PHE:CE1	2.41	1.09
1:K:462:TYR:CZ	1:K:494:PHE:CE1	2.41	1.09
1:O:378:SER:N	1:O:422:ILE:CD1	2.16	1.09
1:H:378:SER:N	1:H:422:ILE:CD1	2.16	1.09
1:A:314:ARG:O	1:A:315:GLU:HG3	1.51	1.09
1:B:378:SER:N	1:B:422:ILE:CD1	2.16	1.09
1:M:378:SER:N	1:M:422:ILE:CD1	2.16	1.09
1:E:121:ALA:HB1	1:F:276:SER:HB3	1.09	1.08
1:I:121:ALA:HB1	1:P:276:SER:HB3	1.27	1.08
1:N:314:ARG:O	1:N:315:GLU:HG3	1.51	1.08
1:N:462:TYR:CZ	1:N:494:PHE:CE1	2.41	1.08
1:B:462:TYR:CZ	1:B:494:PHE:CE1	2.41	1.08
1:G:313:PRO:HB3	1:G:338:TRP:CZ2	1.88	1.08
1:P:313:PRO:HB3	1:P:338:TRP:CZ2	1.88	1.08
1:A:378:SER:N	1:A:422:ILE:CD1	2.16	1.08
1:A:462:TYR:CZ	1:A:494:PHE:CE1	2.41	1.08
1:F:462:TYR:CZ	1:F:494:PHE:CE1	2.41	1.08
1:M:462:TYR:CZ	1:M:494:PHE:CE1	2.41	1.08
1:C:378:SER:N	1:C:422:ILE:CD1	2.16	1.08
1:J:276:SER:HB3	1:K:121:ALA:HB1	1.14	1.08
1:N:378:SER:N	1:N:422:ILE:CD1	2.16	1.08
1:A:313:PRO:HB3	1:A:338:TRP:CZ2	1.88	1.08
1:E:378:SER:N	1:E:422:ILE:CD1	2.16	1.08
1:J:462:TYR:CZ	1:J:494:PHE:CE1	2.41	1.08
1:L:875:LEU:HD13	1:L:911:PHE:CE2	1.64	1.08
1:N:313:PRO:HB3	1:N:338:TRP:CZ2	1.88	1.08
1:J:378:SER:N	1:J:422:ILE:CD1	2.16	1.08
1:A:121:ALA:HB1	1:B:276:SER:HB3	1.34	1.07
1:E:462:TYR:CZ	1:E:494:PHE:CE1	2.41	1.07
1:I:462:TYR:CZ	1:I:494:PHE:CE1	2.41	1.07
1:G:378:SER:N	1:G:422:ILE:CD1	2.16	1.07
1:L:378:SER:N	1:L:422:ILE:CD1	2.16	1.07
1:L:314:ARG:O	1:L:315:GLU:HG3	1.51	1.07
1:P:378:SER:N	1:P:422:ILE:CD1	2.16	1.07
1:F:378:SER:N	1:F:422:ILE:CD1	2.16	1.07
1:I:378:SER:N	1:I:422:ILE:CD1	2.16	1.07
1:B:314:ARG:O	1:B:315:GLU:HG3	1.51	1.07
1:O:313:PRO:HB3	1:O:338:TRP:CZ2	1.88	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:313:PRO:HB3	1:H:338:TRP:CZ2	1.88	1.07
1:D:378:SER:N	1:D:422:ILE:CD1	2.16	1.07
1:M:314:ARG:O	1:M:315:GLU:HG3	1.51	1.07
1:K:378:SER:N	1:K:422:ILE:CD1	2.16	1.07
1:C:314:ARG:O	1:C:315:GLU:HG3	1.51	1.06
1:I:373:SER:CB	1:I:433:LEU:HD12	1.85	1.06
1:F:373:SER:CB	1:F:433:LEU:HD12	1.85	1.06
1:K:313:PRO:HB3	1:K:338:TRP:CZ2	1.88	1.06
1:B:373:SER:CB	1:B:433:LEU:HD12	1.85	1.06
1:D:313:PRO:HB3	1:D:338:TRP:CZ2	1.88	1.06
1:E:875:LEU:HD13	1:E:911:PHE:CE2	1.64	1.06
1:F:313:PRO:HB3	1:F:338:TRP:CZ2	1.88	1.06
1:G:373:SER:CB	1:G:433:LEU:HD12	1.85	1.06
1:H:313:PRO:HA	1:H:338:TRP:CH2	1.90	1.06
1:J:313:PRO:HB3	1:J:338:TRP:CZ2	1.88	1.06
1:O:313:PRO:HA	1:O:338:TRP:CH2	1.90	1.06
1:C:313:PRO:HA	1:C:338:TRP:CH2	1.90	1.06
1:M:373:SER:CB	1:M:433:LEU:HD12	1.85	1.06
1:C:313:PRO:HB3	1:C:338:TRP:CZ2	1.88	1.06
1:G:313:PRO:HA	1:G:338:TRP:CH2	1.90	1.06
1:L:313:PRO:HA	1:L:338:TRP:CH2	1.90	1.06
1:P:313:PRO:HA	1:P:338:TRP:CH2	1.90	1.06
1:P:373:SER:CB	1:P:433:LEU:HD12	1.85	1.06
1:A:373:SER:CB	1:A:433:LEU:HD12	1.85	1.06
1:N:373:SER:CB	1:N:433:LEU:HD12	1.85	1.05
1:C:373:SER:CB	1:C:433:LEU:HD12	1.85	1.05
1:E:313:PRO:HB3	1:E:338:TRP:CZ2	1.88	1.05
1:L:313:PRO:HB3	1:L:338:TRP:CZ2	1.88	1.05
1:A:313:PRO:HA	1:A:338:TRP:CH2	1.90	1.05
1:E:373:SER:CB	1:E:433:LEU:HD12	1.85	1.05
1:I:313:PRO:HB3	1:I:338:TRP:CZ2	1.88	1.05
1:J:875:LEU:HD13	1:J:911:PHE:CE2	1.64	1.05
1:N:313:PRO:HA	1:N:338:TRP:CH2	1.90	1.05
1:I:313:PRO:HA	1:I:338:TRP:CH2	1.90	1.05
1:J:373:SER:CB	1:J:433:LEU:HD12	1.85	1.05
1:D:313:PRO:HA	1:D:338:TRP:CH2	1.90	1.05
1:F:313:PRO:HA	1:F:338:TRP:CH2	1.90	1.05
1:K:373:SER:CB	1:K:433:LEU:HD12	1.85	1.05
1:D:373:SER:CB	1:D:433:LEU:HD12	1.85	1.05
1:L:373:SER:CB	1:L:433:LEU:HD12	1.85	1.05
1:J:313:PRO:HA	1:J:338:TRP:CH2	1.90	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:313:PRO:HA	1:K:338:TRP:CH2	1.91	1.05
1:O:373:SER:CB	1:O:433:LEU:HD12	1.85	1.05
1:E:313:PRO:HA	1:E:338:TRP:CH2	1.90	1.05
1:F:916:LYS:HE2	1:G:1177:TYR:HE2	1.22	1.05
1:H:373:SER:CB	1:H:433:LEU:HD12	1.85	1.05
1:P:378:SER:N	1:P:422:ILE:HD12	1.73	1.04
1:G:378:SER:N	1:G:422:ILE:HD12	1.73	1.04
1:B:313:PRO:HA	1:B:338:TRP:CH2	1.90	1.04
1:C:378:SER:N	1:C:422:ILE:HD12	1.73	1.04
1:N:462:TYR:CZ	1:N:494:PHE:HE1	1.76	1.04
1:K:378:SER:N	1:K:422:ILE:HD12	1.73	1.04
1:M:313:PRO:HA	1:M:338:TRP:CH2	1.91	1.04
1:L:378:SER:N	1:L:422:ILE:HD12	1.73	1.04
1:D:378:SER:N	1:D:422:ILE:HD12	1.73	1.04
1:E:378:SER:N	1:E:422:ILE:HD12	1.73	1.04
1:I:378:SER:N	1:I:422:ILE:HD12	1.73	1.04
1:D:209:SER:OG	1:E:212:ASP:OD2	1.76	1.03
1:J:378:SER:N	1:J:422:ILE:HD12	1.73	1.03
1:A:378:SER:N	1:A:422:ILE:HD12	1.73	1.03
1:B:313:PRO:HB3	1:B:338:TRP:CZ2	1.88	1.03
1:M:313:PRO:HB3	1:M:338:TRP:CZ2	1.88	1.03
1:C:508:TRP:HA	1:C:606:GLY:HA3	1.03	1.03
1:F:509:ASN:HD21	1:F:632:LEU:HD13	1.23	1.03
1:G:509:ASN:HD21	1:G:632:LEU:HD13	1.23	1.03
1:N:378:SER:N	1:N:422:ILE:HD12	1.73	1.03
1:O:509:ASN:HD21	1:O:632:LEU:HD13	1.23	1.03
1:P:509:ASN:HD21	1:P:632:LEU:HD13	1.23	1.03
1:F:378:SER:N	1:F:422:ILE:HD12	1.73	1.03
1:H:508:TRP:HA	1:H:606:GLY:HA3	1.03	1.03
1:B:508:TRP:HA	1:B:606:GLY:HA3	1.03	1.03
1:H:509:ASN:HD21	1:H:632:LEU:HD13	1.23	1.03
1:O:508:TRP:HA	1:O:606:GLY:HA3	1.03	1.03
1:L:508:TRP:HA	1:L:606:GLY:HA3	1.03	1.03
1:M:508:TRP:HA	1:M:606:GLY:HA3	1.03	1.03
1:N:508:TRP:HA	1:N:606:GLY:HA3	1.03	1.03
1:A:508:TRP:HA	1:A:606:GLY:HA3	1.03	1.03
1:A:875:LEU:HD13	1:A:911:PHE:CE2	1.64	1.03
1:F:508:TRP:HA	1:F:606:GLY:HA3	1.04	1.03
1:I:509:ASN:HD21	1:I:632:LEU:HD13	1.23	1.03
1:I:508:TRP:HA	1:I:606:GLY:HA3	1.03	1.03
1:P:508:TRP:HA	1:P:606:GLY:HA3	1.03	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:508:TRP:HA	1:G:606:GLY:HA3	1.03	1.02
1:D:508:TRP:HA	1:D:606:GLY:HA3	1.03	1.02
1:E:509:ASN:HD21	1:E:632:LEU:HD13	1.23	1.02
1:N:509:ASN:HD21	1:N:632:LEU:HD13	1.23	1.02
1:K:508:TRP:HA	1:K:606:GLY:HA3	1.03	1.02
1:A:509:ASN:HD21	1:A:632:LEU:HD13	1.23	1.02
1:E:557:LYS:HB3	1:E:1226:TYR:CZ	1.95	1.02
1:J:557:LYS:HB3	1:J:1226:TYR:CZ	1.95	1.02
1:B:557:LYS:HB3	1:B:1226:TYR:CZ	1.95	1.02
1:J:508:TRP:HA	1:J:606:GLY:HA3	1.03	1.02
1:C:557:LYS:HB3	1:C:1226:TYR:CZ	1.95	1.02
1:E:508:TRP:HA	1:E:606:GLY:HA3	1.03	1.02
1:J:509:ASN:HD21	1:J:632:LEU:HD13	1.23	1.02
1:L:557:LYS:HB3	1:L:1226:TYR:CZ	1.95	1.02
1:M:557:LYS:HB3	1:M:1226:TYR:CZ	1.95	1.02
1:N:875:LEU:HD13	1:N:911:PHE:CE2	1.64	1.02
1:F:121:ALA:HB1	1:G:276:SER:HB3	1.41	1.02
1:C:121:ALA:HB1	1:D:276:SER:HB3	1.39	1.02
1:I:557:LYS:HB3	1:I:1226:TYR:CZ	1.95	1.01
1:L:509:ASN:HD21	1:L:632:LEU:HD13	1.23	1.01
1:E:121:ALA:HB1	1:F:276:SER:CB	1.90	1.01
1:G:209:SER:OG	1:H:212:ASP:OD2	1.77	1.01
1:F:557:LYS:HB3	1:F:1226:TYR:CZ	1.95	1.01
1:N:389:ILE:CD1	1:N:446:HIS:NE2	2.23	1.01
1:A:389:ILE:CD1	1:A:446:HIS:NE2	2.23	1.01
1:G:389:ILE:CD1	1:G:446:HIS:NE2	2.23	1.01
1:K:389:ILE:CD1	1:K:446:HIS:NE2	2.24	1.01
1:L:389:ILE:CD1	1:L:446:HIS:NE2	2.23	1.01
1:P:389:ILE:CD1	1:P:446:HIS:NE2	2.23	1.01
1:C:389:ILE:CD1	1:C:446:HIS:NE2	2.23	1.01
1:D:389:ILE:CD1	1:D:446:HIS:NE2	2.24	1.01
1:B:378:SER:N	1:B:422:ILE:HD12	1.73	1.01
1:D:509:ASN:HD21	1:D:632:LEU:HD13	1.23	1.01
1:E:389:ILE:CD1	1:E:446:HIS:NE2	2.24	1.01
1:H:557:LYS:HB3	1:H:1226:TYR:CZ	1.95	1.01
1:H:389:ILE:CD1	1:H:446:HIS:NE2	2.24	1.01
1:J:389:ILE:CD1	1:J:446:HIS:NE2	2.23	1.01
1:K:557:LYS:HB3	1:K:1226:TYR:CZ	1.95	1.01
1:M:378:SER:N	1:M:422:ILE:HD12	1.73	1.01
1:M:509:ASN:HD21	1:M:632:LEU:HD13	1.23	1.01
1:O:557:LYS:HB3	1:O:1226:TYR:CZ	1.95	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:389:ILE:CD1	1:O:446:HIS:NE2	2.23	1.01
1:B:509:ASN:HD21	1:B:632:LEU:HD13	1.23	1.01
1:D:557:LYS:HB3	1:D:1226:TYR:CZ	1.95	1.01
1:K:509:ASN:HD21	1:K:632:LEU:HD13	1.23	1.00
1:G:875:LEU:HD13	1:G:911:PHE:CE2	1.64	1.00
1:P:557:LYS:HB3	1:P:1226:TYR:CZ	1.95	1.00
1:F:875:LEU:HD13	1:F:911:PHE:CE2	1.64	1.00
1:G:557:LYS:HB3	1:G:1226:TYR:CZ	1.95	1.00
1:I:389:ILE:CD1	1:I:446:HIS:NE2	2.24	1.00
1:A:557:LYS:HB3	1:A:1226:TYR:CZ	1.95	1.00
1:F:389:ILE:CD1	1:F:446:HIS:NE2	2.23	1.00
1:C:509:ASN:HD21	1:C:632:LEU:HD13	1.23	1.00
1:N:557:LYS:HB3	1:N:1226:TYR:CZ	1.95	1.00
1:O:378:SER:N	1:O:422:ILE:HD12	1.73	1.00
1:P:875:LEU:HD13	1:P:911:PHE:CE2	1.64	1.00
1:H:378:SER:N	1:H:422:ILE:HD12	1.73	1.00
1:H:875:LEU:HD13	1:H:911:PHE:CE2	1.64	1.00
1:M:875:LEU:CD1	1:M:911:PHE:CD2	2.23	1.00
1:I:212:ASP:OD2	1:J:209:SER:OG	1.80	1.00
1:I:875:LEU:CD1	1:I:911:PHE:CD2	2.24	1.00
1:F:518:LEU:CD2	1:F:643:TYR:CD1	2.27	0.99
1:I:875:LEU:HD13	1:I:911:PHE:CE2	1.64	0.99
1:B:389:ILE:CD1	1:B:446:HIS:NE2	2.23	0.99
1:D:875:LEU:HD13	1:D:911:PHE:CE2	1.64	0.99
1:J:462:TYR:CZ	1:J:494:PHE:HE1	1.76	0.99
1:M:389:ILE:CD1	1:M:446:HIS:NE2	2.23	0.99
1:O:875:LEU:HD13	1:O:911:PHE:CE2	1.64	0.99
1:E:462:TYR:CZ	1:E:494:PHE:HE1	1.76	0.99
1:I:462:TYR:CZ	1:I:494:PHE:HE1	1.76	0.99
1:D:462:TYR:CZ	1:D:494:PHE:HE1	1.76	0.99
1:K:875:LEU:HD13	1:K:911:PHE:CE2	1.64	0.99
1:C:462:TYR:CZ	1:C:494:PHE:HE1	1.76	0.99
1:B:121:ALA:HB1	1:C:276:SER:HB3	1.02	0.99
1:H:251:APK:C	1:H:253:TRP:N	2.26	0.99
1:M:212:ASP:OD2	1:N:209:SER:OG	1.80	0.99
1:O:251:APK:C	1:O:253:TRP:N	2.26	0.99
1:D:313:PRO:HG3	1:D:338:TRP:HE1	1.28	0.99
1:K:462:TYR:CZ	1:K:494:PHE:HE1	1.76	0.99
1:N:212:ASP:OD2	1:O:209:SER:OG	1.79	0.99
1:N:251:APK:C	1:N:253:TRP:N	2.26	0.99
1:B:462:TYR:CZ	1:B:494:PHE:HE1	1.76	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:251:APK:C	1:G:253:TRP:N	2.26	0.98
1:K:313:PRO:HG3	1:K:338:TRP:HE1	1.28	0.98
1:L:462:TYR:CZ	1:L:494:PHE:HE1	1.76	0.98
1:P:251:APK:C	1:P:253:TRP:N	2.26	0.98
1:A:251:APK:C	1:A:253:TRP:N	2.26	0.98
1:A:298:LYS:HG3	1:A:312:LEU:HD12	1.44	0.98
1:F:313:PRO:HG3	1:F:338:TRP:NE1	1.79	0.98
1:F:462:TYR:CZ	1:F:494:PHE:HE1	1.76	0.98
1:I:518:LEU:CD2	1:I:643:TYR:CD1	2.27	0.98
1:I:313:PRO:HG3	1:I:338:TRP:NE1	1.79	0.98
1:N:298:LYS:HG3	1:N:312:LEU:HD12	1.44	0.98
1:B:313:PRO:HG3	1:B:338:TRP:NE1	1.79	0.98
1:H:298:LYS:HG3	1:H:312:LEU:HD12	1.44	0.98
1:L:313:PRO:HG3	1:L:338:TRP:NE1	1.79	0.98
1:M:313:PRO:HG3	1:M:338:TRP:NE1	1.79	0.98
1:M:462:TYR:CZ	1:M:494:PHE:HE1	1.76	0.98
1:C:313:PRO:HG3	1:C:338:TRP:NE1	1.79	0.98
1:I:301:LEU:HD21	1:I:313:PRO:HG2	1.45	0.98
1:J:251:APK:C	1:J:253:TRP:N	2.26	0.98
1:O:298:LYS:HG3	1:O:312:LEU:HD12	1.44	0.98
1:E:251:APK:C	1:E:253:TRP:N	2.26	0.98
1:M:251:APK:C	1:M:253:TRP:N	2.26	0.98
1:A:462:TYR:CZ	1:A:494:PHE:HE1	1.76	0.98
1:F:301:LEU:HD21	1:F:313:PRO:HG2	1.45	0.98
1:J:313:PRO:HG3	1:J:338:TRP:NE1	1.79	0.98
1:A:508:TRP:CE3	1:A:927:GLN:O	2.17	0.98
1:B:251:APK:C	1:B:253:TRP:N	2.26	0.98
1:D:251:APK:C	1:D:253:TRP:N	2.26	0.98
1:E:313:PRO:HG3	1:E:338:TRP:NE1	1.79	0.98
1:E:509:ASN:ND2	1:E:632:LEU:HD13	1.79	0.98
1:F:509:ASN:ND2	1:F:632:LEU:HD13	1.79	0.98
1:K:298:LYS:HG3	1:K:312:LEU:HD12	1.44	0.98
1:N:508:TRP:CE3	1:N:927:GLN:O	2.17	0.98
1:A:313:PRO:HG3	1:A:338:TRP:NE1	1.79	0.98
1:B:508:TRP:CE3	1:B:927:GLN:O	2.17	0.98
1:E:508:TRP:CE3	1:E:927:GLN:O	2.17	0.98
1:K:251:APK:C	1:K:253:TRP:N	2.26	0.98
1:K:317:LEU:O	1:K:318:THR:OG1	1.82	0.98
1:M:508:TRP:CE3	1:M:927:GLN:O	2.17	0.98
1:D:298:LYS:HG3	1:D:312:LEU:HD12	1.44	0.97
1:D:317:LEU:O	1:D:318:THR:OG1	1.82	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:462:TYR:CZ	1:G:494:PHE:HE1	1.76	0.97
1:J:317:LEU:O	1:J:318:THR:OG1	1.82	0.97
1:J:509:ASN:ND2	1:J:632:LEU:HD13	1.79	0.97
1:J:508:TRP:CE3	1:J:927:GLN:O	2.17	0.97
1:K:508:TRP:CE3	1:K:927:GLN:O	2.17	0.97
1:N:313:PRO:HG3	1:N:338:TRP:NE1	1.79	0.97
1:P:462:TYR:CZ	1:P:494:PHE:HE1	1.76	0.97
1:B:298:LYS:HG3	1:B:312:LEU:HD12	1.44	0.97
1:D:508:TRP:CE3	1:D:927:GLN:O	2.17	0.97
1:D:509:ASN:ND2	1:D:632:LEU:HD13	1.79	0.97
1:H:462:TYR:CZ	1:H:494:PHE:HE1	1.76	0.97
1:I:509:ASN:ND2	1:I:632:LEU:HD13	1.79	0.97
1:P:509:ASN:ND2	1:P:632:LEU:HD13	1.79	0.97
1:E:317:LEU:O	1:E:318:THR:OG1	1.82	0.97
1:G:509:ASN:ND2	1:G:632:LEU:HD13	1.79	0.97
1:H:508:TRP:CE3	1:H:927:GLN:O	2.17	0.97
1:M:298:LYS:HG3	1:M:312:LEU:HD12	1.44	0.97
1:E:637:LEU:O	1:E:638:GLU:HB2	1.65	0.97
1:G:792:ASP:OD2	1:G:799:ASN:ND2	1.98	0.97
1:K:313:PRO:HG3	1:K:338:TRP:NE1	1.79	0.97
1:K:509:ASN:ND2	1:K:632:LEU:HD13	1.79	0.97
1:O:508:TRP:CE3	1:O:927:GLN:O	2.17	0.97
1:P:792:ASP:OD2	1:P:799:ASN:ND2	1.98	0.97
1:D:313:PRO:HG3	1:D:338:TRP:NE1	1.79	0.97
1:G:301:LEU:HD21	1:G:313:PRO:HG2	1.45	0.97
1:I:508:TRP:CE3	1:I:927:GLN:O	2.17	0.97
1:J:301:LEU:HD21	1:J:313:PRO:HG2	1.45	0.97
1:J:637:LEU:O	1:J:638:GLU:HB2	1.65	0.97
1:B:792:ASP:OD2	1:B:799:ASN:ND2	1.98	0.97
1:L:251:APK:C	1:L:253:TRP:N	2.26	0.97
1:M:792:ASP:OD2	1:M:799:ASN:ND2	1.98	0.97
1:O:462:TYR:CZ	1:O:494:PHE:HE1	1.76	0.97
1:O:509:ASN:ND2	1:O:632:LEU:HD13	1.79	0.97
1:P:301:LEU:HD21	1:P:313:PRO:HG2	1.45	0.97
1:P:373:SER:HB3	1:P:433:LEU:HD12	1.46	0.97
1:A:875:LEU:CD1	1:A:911:PHE:CD2	2.23	0.97
1:E:301:LEU:HD21	1:E:313:PRO:HG2	1.45	0.97
1:F:508:TRP:CE3	1:F:927:GLN:O	2.17	0.97
1:G:298:LYS:HG3	1:G:312:LEU:HD12	1.44	0.97
1:G:373:SER:HB3	1:G:433:LEU:HD12	1.46	0.97
1:H:313:PRO:HG3	1:H:338:TRP:NE1	1.79	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:298:LYS:HG3	1:P:312:LEU:HD12	1.44	0.97
1:F:373:SER:HB3	1:F:433:LEU:HD12	1.46	0.97
1:F:637:LEU:O	1:F:638:GLU:HB2	1.65	0.97
1:G:313:PRO:HG3	1:G:338:TRP:NE1	1.79	0.97
1:H:509:ASN:ND2	1:H:632:LEU:HD13	1.79	0.97
1:I:373:SER:HB3	1:I:433:LEU:HD12	1.46	0.97
1:L:508:TRP:CE3	1:L:927:GLN:O	2.17	0.97
1:P:313:PRO:HG3	1:P:338:TRP:NE1	1.79	0.97
1:C:509:ASN:ND2	1:C:632:LEU:HD13	1.79	0.97
1:I:251:APK:C	1:I:253:TRP:N	2.26	0.97
1:P:313:PRO:HG3	1:P:338:TRP:HE1	1.28	0.97
1:C:251:APK:C	1:C:253:TRP:N	2.26	0.97
1:G:313:PRO:HG3	1:G:338:TRP:HE1	1.29	0.97
1:I:298:LYS:HG3	1:I:312:LEU:HD12	1.44	0.97
1:M:313:PRO:HG3	1:M:338:TRP:HE1	1.28	0.97
1:O:313:PRO:HG3	1:O:338:TRP:NE1	1.79	0.97
1:O:373:SER:HB3	1:O:433:LEU:HD12	1.46	0.97
1:A:317:LEU:O	1:A:318:THR:OG1	1.82	0.96
1:B:313:PRO:HG3	1:B:338:TRP:HE1	1.28	0.96
1:C:508:TRP:CE3	1:C:927:GLN:O	2.17	0.96
1:D:792:ASP:OD2	1:D:799:ASN:ND2	1.98	0.96
1:L:509:ASN:ND2	1:L:632:LEU:HD13	1.79	0.96
1:N:317:LEU:O	1:N:318:THR:OG1	1.82	0.96
1:N:792:ASP:OD2	1:N:799:ASN:ND2	1.98	0.96
1:A:451:LYS:HD3	1:A:486:LEU:HD21	1.47	0.96
1:A:792:ASP:OD2	1:A:799:ASN:ND2	1.98	0.96
1:B:509:ASN:ND2	1:B:632:LEU:HD13	1.79	0.96
1:F:251:APK:C	1:F:253:TRP:N	2.26	0.96
1:K:792:ASP:OD2	1:K:799:ASN:ND2	1.98	0.96
1:L:313:PRO:HG3	1:L:338:TRP:HE1	1.28	0.96
1:N:451:LYS:HD3	1:N:486:LEU:HD21	1.47	0.96
1:A:313:PRO:HG3	1:A:338:TRP:HE1	1.28	0.96
1:E:313:PRO:HG3	1:E:338:TRP:HE1	1.28	0.96
1:E:373:SER:HB3	1:E:433:LEU:HD12	1.46	0.96
1:H:317:LEU:O	1:H:318:THR:OG1	1.82	0.96
1:I:637:LEU:O	1:I:638:GLU:HB2	1.65	0.96
1:J:313:PRO:HG3	1:J:338:TRP:HE1	1.28	0.96
1:N:509:ASN:ND2	1:N:632:LEU:HD13	1.79	0.96
1:O:317:LEU:O	1:O:318:THR:OG1	1.82	0.96
1:P:502:ARG:HB3	1:P:516:ASN:OD1	1.66	0.96
1:G:502:ARG:HB3	1:G:516:ASN:OD1	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:518:LEU:CD2	1:L:643:TYR:CD1	2.27	0.96
1:A:509:ASN:ND2	1:A:632:LEU:HD13	1.79	0.96
1:B:301:LEU:HD21	1:B:313:PRO:HG2	1.45	0.96
1:D:508:TRP:O	1:D:606:GLY:N	1.98	0.96
1:E:792:ASP:OD2	1:E:799:ASN:ND2	1.98	0.96
1:F:298:LYS:HG3	1:F:312:LEU:HD12	1.44	0.96
1:H:373:SER:HB3	1:H:433:LEU:HD12	1.46	0.96
1:J:373:SER:HB3	1:J:433:LEU:HD12	1.46	0.96
1:J:792:ASP:OD2	1:J:799:ASN:ND2	1.98	0.96
1:K:508:TRP:O	1:K:606:GLY:N	1.98	0.96
1:M:509:ASN:ND2	1:M:632:LEU:HD13	1.79	0.96
1:N:313:PRO:HG3	1:N:338:TRP:HE1	1.28	0.96
1:P:508:TRP:CE3	1:P:927:GLN:O	2.17	0.96
1:L:276:SER:CB	1:M:121:ALA:HB1	1.95	0.96
1:N:875:LEU:CD1	1:N:911:PHE:CD2	2.24	0.96
1:D:373:SER:HB3	1:D:433:LEU:HD12	1.46	0.96
1:G:508:TRP:CE3	1:G:927:GLN:O	2.17	0.96
1:K:637:LEU:O	1:K:638:GLU:HB2	1.65	0.96
1:M:301:LEU:HD21	1:M:313:PRO:HG2	1.45	0.96
1:A:502:ARG:HB3	1:A:516:ASN:OD1	1.66	0.96
1:C:301:LEU:HD21	1:C:313:PRO:HG2	1.45	0.96
1:C:502:ARG:HB3	1:C:516:ASN:OD1	1.66	0.96
1:D:637:LEU:O	1:D:638:GLU:HB2	1.65	0.96
1:H:792:ASP:OD2	1:H:799:ASN:ND2	1.98	0.96
1:L:317:LEU:O	1:L:318:THR:OG1	1.82	0.96
1:L:792:ASP:OD2	1:L:799:ASN:ND2	1.98	0.96
1:N:373:SER:HB3	1:N:433:LEU:HD12	1.46	0.96
1:C:298:LYS:HG3	1:C:312:LEU:HD12	1.44	0.96
1:C:508:TRP:O	1:C:606:GLY:N	1.98	0.96
1:H:451:LYS:HD3	1:H:486:LEU:HD21	1.47	0.96
1:H:502:ARG:HB3	1:H:516:ASN:OD1	1.66	0.96
1:O:502:ARG:HB3	1:O:516:ASN:OD1	1.66	0.96
1:A:301:LEU:HD21	1:A:313:PRO:HG2	1.45	0.96
1:B:875:LEU:HD13	1:B:911:PHE:CE2	1.64	0.96
1:I:317:LEU:O	1:I:318:THR:OG1	1.82	0.96
1:M:451:LYS:HD3	1:M:486:LEU:HD21	1.47	0.96
1:N:502:ARG:HB3	1:N:516:ASN:OD1	1.66	0.96
1:N:505:SER:HG	1:N:513:SER:HG	1.02	0.96
1:B:451:LYS:HD3	1:B:486:LEU:HD21	1.47	0.95
1:C:313:PRO:HG3	1:C:338:TRP:HE1	1.28	0.95
1:C:317:LEU:O	1:C:318:THR:OG1	1.82	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:451:LYS:HD3	1:G:486:LEU:HD21	1.47	0.95
1:G:508:TRP:O	1:G:606:GLY:N	1.99	0.95
1:H:313:PRO:HG3	1:H:338:TRP:HE1	1.28	0.95
1:O:451:LYS:HD3	1:O:486:LEU:HD21	1.47	0.95
1:O:792:ASP:OD2	1:O:799:ASN:ND2	1.98	0.95
1:P:451:LYS:HD3	1:P:486:LEU:HD21	1.47	0.95
1:P:508:TRP:O	1:P:606:GLY:N	1.98	0.95
1:A:373:SER:HB3	1:A:433:LEU:HD12	1.46	0.95
1:D:502:ARG:HB3	1:D:516:ASN:OD1	1.66	0.95
1:F:792:ASP:OD2	1:F:799:ASN:ND2	1.98	0.95
1:K:502:ARG:HB3	1:K:516:ASN:OD1	1.66	0.95
1:L:378:SER:H	1:L:422:ILE:HD12	1.27	0.95
1:L:508:TRP:O	1:L:606:GLY:N	1.98	0.95
1:O:314:ARG:O	1:O:315:GLU:CG	2.14	0.95
1:G:317:LEU:O	1:G:318:THR:OG1	1.82	0.95
1:H:314:ARG:O	1:H:315:GLU:CG	2.15	0.95
1:K:373:SER:HB3	1:K:433:LEU:HD12	1.46	0.95
1:L:314:ARG:O	1:L:315:GLU:CG	2.14	0.95
1:N:301:LEU:HD21	1:N:313:PRO:HG2	1.45	0.95
1:B:378:SER:H	1:B:422:ILE:HD12	1.27	0.95
1:B:373:SER:HB3	1:B:433:LEU:HD12	1.46	0.95
1:C:378:SER:H	1:C:422:ILE:HD12	1.27	0.95
1:C:792:ASP:OD2	1:C:799:ASN:ND2	1.98	0.95
1:J:508:TRP:O	1:J:606:GLY:N	1.98	0.95
1:M:378:SER:H	1:M:422:ILE:HD12	1.27	0.95
1:P:317:LEU:O	1:P:318:THR:OG1	1.82	0.95
1:C:875:LEU:HD13	1:C:911:PHE:CE2	1.64	0.95
1:E:508:TRP:O	1:E:606:GLY:N	1.98	0.95
1:M:373:SER:HB3	1:M:433:LEU:HD12	1.46	0.95
1:O:508:TRP:O	1:O:606:GLY:N	1.99	0.95
1:C:314:ARG:O	1:C:315:GLU:CG	2.15	0.95
1:E:314:ARG:O	1:E:315:GLU:CG	2.14	0.95
1:H:508:TRP:O	1:H:606:GLY:N	1.99	0.95
1:I:314:ARG:O	1:I:315:GLU:CG	2.15	0.95
1:L:298:LYS:HG3	1:L:312:LEU:HD12	1.44	0.95
1:L:502:ARG:HB3	1:L:516:ASN:OD1	1.66	0.95
1:M:875:LEU:HD13	1:M:911:PHE:CE2	1.64	0.95
1:O:313:PRO:HG3	1:O:338:TRP:HE1	1.28	0.95
1:O:637:LEU:O	1:O:638:GLU:HB2	1.65	0.95
1:B:314:ARG:O	1:B:315:GLU:CG	2.14	0.95
1:D:518:LEU:CD2	1:D:643:TYR:CD1	2.27	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:314:ARG:O	1:F:315:GLU:CG	2.15	0.95
1:F:502:ARG:HB3	1:F:516:ASN:OD1	1.66	0.95
1:F:508:TRP:O	1:F:606:GLY:N	1.98	0.95
1:I:792:ASP:OD2	1:I:799:ASN:ND2	1.98	0.95
1:M:314:ARG:O	1:M:315:GLU:CG	2.15	0.95
1:F:317:LEU:O	1:F:318:THR:OG1	1.82	0.95
1:I:508:TRP:O	1:I:606:GLY:N	1.98	0.95
1:J:314:ARG:O	1:J:315:GLU:CG	2.14	0.95
1:K:378:SER:H	1:K:422:ILE:HD12	1.27	0.95
1:C:518:LEU:CD2	1:C:643:TYR:CD1	2.27	0.95
1:E:298:LYS:HG3	1:E:312:LEU:HD12	1.44	0.95
1:G:637:LEU:O	1:G:638:GLU:HB2	1.65	0.95
1:H:637:LEU:O	1:H:638:GLU:HB2	1.65	0.95
1:L:301:LEU:HD21	1:L:313:PRO:HG2	1.45	0.95
1:L:637:LEU:O	1:L:638:GLU:HB2	1.65	0.95
1:M:317:LEU:O	1:M:318:THR:OG1	1.82	0.95
1:A:508:TRP:O	1:A:606:GLY:N	1.98	0.94
1:B:317:LEU:O	1:B:318:THR:OG1	1.82	0.94
1:C:373:SER:HB3	1:C:433:LEU:HD12	1.46	0.94
1:J:502:ARG:HB3	1:J:516:ASN:OD1	1.66	0.94
1:K:314:ARG:O	1:K:315:GLU:CG	2.15	0.94
1:N:508:TRP:O	1:N:606:GLY:N	1.98	0.94
1:N:637:LEU:O	1:N:638:GLU:HB2	1.65	0.94
1:I:209:SER:OG	1:P:212:ASP:OD2	1.81	0.94
1:C:14:ASP:OD2	1:D:142:ARG:NH1	2.00	0.94
1:D:314:ARG:O	1:D:315:GLU:CG	2.15	0.94
1:D:378:SER:H	1:D:422:ILE:HD12	1.27	0.94
1:J:378:SER:H	1:J:422:ILE:HD12	1.27	0.94
1:J:212:ASP:OD2	1:K:209:SER:OG	1.85	0.94
1:K:518:LEU:CD2	1:K:643:TYR:CD1	2.27	0.94
1:M:508:TRP:O	1:M:606:GLY:N	1.98	0.94
1:B:508:TRP:O	1:B:606:GLY:N	1.98	0.94
1:E:502:ARG:HB3	1:E:516:ASN:OD1	1.66	0.94
1:G:314:ARG:O	1:G:315:GLU:CG	2.15	0.94
1:J:276:SER:CB	1:K:121:ALA:HB1	1.98	0.94
1:L:373:SER:HB3	1:L:433:LEU:HD12	1.46	0.94
1:P:314:ARG:O	1:P:315:GLU:CG	2.14	0.94
1:P:637:LEU:O	1:P:638:GLU:HB2	1.65	0.94
1:A:637:LEU:O	1:A:638:GLU:HB2	1.65	0.94
1:B:502:ARG:HB3	1:B:516:ASN:OD1	1.66	0.94
1:F:451:LYS:HD3	1:F:486:LEU:HD21	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:518:LEU:CD2	1:E:643:TYR:CD1	2.27	0.94
1:H:301:LEU:HD21	1:H:313:PRO:HG2	1.45	0.94
1:H:463:LEU:HD22	1:H:467:PHE:CE2	2.03	0.94
1:H:518:LEU:CD2	1:H:643:TYR:CD1	2.27	0.94
1:I:502:ARG:HB3	1:I:516:ASN:OD1	1.66	0.94
1:M:502:ARG:HB3	1:M:516:ASN:OD1	1.66	0.94
1:O:505:SER:HG	1:O:513:SER:HG	0.98	0.94
1:J:298:LYS:HG3	1:J:312:LEU:HD12	1.44	0.94
1:N:314:ARG:O	1:N:315:GLU:CG	2.15	0.94
1:N:378:SER:H	1:N:422:ILE:HD12	1.27	0.94
1:O:463:LEU:HD22	1:O:467:PHE:CE2	2.03	0.94
1:C:451:LYS:HD3	1:C:486:LEU:HD21	1.47	0.94
1:E:875:LEU:CD1	1:E:911:PHE:CD2	2.23	0.94
1:I:451:LYS:HD3	1:I:486:LEU:HD21	1.47	0.94
1:K:301:LEU:HD21	1:K:313:PRO:HG2	1.45	0.94
1:F:463:LEU:HD22	1:F:467:PHE:CE2	2.03	0.94
1:F:916:LYS:CE	1:G:1177:TYR:HE2	1.81	0.94
1:H:557:LYS:O	1:H:1226:TYR:OH	1.86	0.94
1:I:378:SER:H	1:I:422:ILE:HD12	1.27	0.94
1:I:463:LEU:HD22	1:I:467:PHE:CE2	2.03	0.94
1:A:314:ARG:O	1:A:315:GLU:CG	2.14	0.94
1:A:378:SER:H	1:A:422:ILE:HD12	1.27	0.94
1:A:557:LYS:O	1:A:1226:TYR:OH	1.86	0.94
1:B:463:LEU:HD22	1:B:467:PHE:CE2	2.03	0.94
1:E:378:SER:H	1:E:422:ILE:HD12	1.27	0.94
1:N:557:LYS:O	1:N:1226:TYR:OH	1.86	0.94
1:O:557:LYS:O	1:O:1226:TYR:OH	1.86	0.94
1:P:557:LYS:O	1:P:1226:TYR:OH	1.86	0.94
1:D:547:PRO:HB3	1:D:603:ILE:HG13	1.50	0.94
1:G:557:LYS:O	1:G:1226:TYR:OH	1.86	0.94
1:M:463:LEU:HD22	1:M:467:PHE:CE2	2.03	0.94
1:M:637:LEU:O	1:M:638:GLU:HB2	1.65	0.94
1:O:301:LEU:HD21	1:O:313:PRO:HG2	1.45	0.94
1:C:637:LEU:O	1:C:638:GLU:HB2	1.65	0.94
1:J:518:LEU:CD2	1:J:643:TYR:CD1	2.27	0.94
1:J:875:LEU:CD1	1:J:911:PHE:CD2	2.23	0.94
1:K:463:LEU:HD22	1:K:467:PHE:CE2	2.03	0.94
1:N:463:LEU:HD22	1:N:467:PHE:CE2	2.03	0.94
1:O:518:LEU:CD2	1:O:643:TYR:CD1	2.27	0.94
1:B:557:LYS:O	1:B:1226:TYR:OH	1.86	0.93
1:B:637:LEU:O	1:B:638:GLU:HB2	1.65	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:875:LEU:CD1	1:B:911:PHE:CD2	2.23	0.93
1:K:451:LYS:HD3	1:K:486:LEU:HD21	1.47	0.93
1:K:547:PRO:HB3	1:K:603:ILE:HG13	1.51	0.93
1:A:463:LEU:HD22	1:A:467:PHE:CE2	2.03	0.93
1:D:301:LEU:HD21	1:D:313:PRO:HG2	1.45	0.93
1:D:463:LEU:HD22	1:D:467:PHE:CE2	2.03	0.93
1:M:557:LYS:O	1:M:1226:TYR:OH	1.86	0.93
1:D:451:LYS:HD3	1:D:486:LEU:HD21	1.47	0.93
1:G:463:LEU:HD22	1:G:467:PHE:CE2	2.03	0.93
1:B:518:LEU:CD2	1:B:643:TYR:CD1	2.27	0.93
1:C:463:LEU:HD22	1:C:467:PHE:CE2	2.03	0.93
1:L:451:LYS:HD3	1:L:486:LEU:HD21	1.47	0.93
1:O:378:SER:H	1:O:422:ILE:HD12	1.27	0.93
1:P:463:LEU:HD22	1:P:467:PHE:CE2	2.03	0.93
1:M:518:LEU:CD2	1:M:643:TYR:CD1	2.27	0.93
1:E:463:LEU:HD22	1:E:467:PHE:CE2	2.03	0.93
1:F:547:PRO:HB3	1:F:603:ILE:HG13	1.50	0.93
1:O:212:ASP:OD2	1:P:209:SER:OG	1.85	0.93
1:P:378:SER:H	1:P:422:ILE:HD12	1.27	0.93
1:A:505:SER:HG	1:A:513:SER:HG	1.04	0.93
1:B:547:PRO:HB3	1:B:603:ILE:HG13	1.50	0.93
1:F:545:PHE:CZ	1:F:565:ALA:HA	2.04	0.93
1:I:557:LYS:O	1:I:1226:TYR:OH	1.86	0.93
1:I:545:PHE:CZ	1:I:565:ALA:HA	2.04	0.93
1:L:463:LEU:HD22	1:L:467:PHE:CE2	2.03	0.93
1:F:378:SER:H	1:F:422:ILE:HD12	1.27	0.93
1:F:557:LYS:O	1:F:1226:TYR:OH	1.86	0.93
1:G:547:PRO:HB3	1:G:603:ILE:HG13	1.51	0.93
1:M:547:PRO:HB3	1:M:603:ILE:HG13	1.51	0.93
1:P:547:PRO:HB3	1:P:603:ILE:HG13	1.51	0.93
1:A:875:LEU:HD13	1:A:911:PHE:HE2	0.76	0.93
1:G:378:SER:H	1:G:422:ILE:HD12	1.27	0.93
1:H:378:SER:H	1:H:422:ILE:HD12	1.27	0.93
1:J:451:LYS:HD3	1:J:486:LEU:HD21	1.47	0.93
1:J:463:LEU:HD22	1:J:467:PHE:CE2	2.03	0.93
1:N:875:LEU:HD13	1:N:911:PHE:HE2	0.76	0.93
1:P:545:PHE:CZ	1:P:565:ALA:HA	2.04	0.93
1:E:451:LYS:HD3	1:E:486:LEU:HD21	1.47	0.93
1:E:545:PHE:CZ	1:E:565:ALA:HA	2.04	0.93
1:C:557:LYS:O	1:C:1226:TYR:OH	1.86	0.92
1:D:121:ALA:HB1	1:E:276:SER:CB	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:545:PHE:CZ	1:G:565:ALA:HA	2.04	0.92
1:H:875:LEU:CD1	1:H:911:PHE:CD2	2.24	0.92
1:I:547:PRO:HB3	1:I:603:ILE:HG13	1.51	0.92
1:A:483:ARG:O	1:A:487:PHE:N	2.03	0.92
1:E:875:LEU:HD13	1:E:911:PHE:HE2	0.76	0.92
1:J:545:PHE:CZ	1:J:565:ALA:HA	2.04	0.92
1:B:875:LEU:HD11	1:B:911:PHE:HD2	1.34	0.92
1:D:312:LEU:HD23	1:D:313:PRO:N	1.85	0.92
1:D:483:ARG:O	1:D:487:PHE:N	2.03	0.92
1:E:333:ASP:OD2	1:F:403:ASN:ND2	2.01	0.92
1:J:875:LEU:HD13	1:J:911:PHE:HE2	0.76	0.92
1:K:483:ARG:O	1:K:487:PHE:N	2.03	0.92
1:M:875:LEU:HD11	1:M:911:PHE:HD2	1.34	0.92
1:N:483:ARG:O	1:N:487:PHE:N	2.03	0.92
1:B:382:PRO:HA	1:B:419:THR:HG22	1.52	0.92
1:B:875:LEU:HD13	1:B:911:PHE:HE2	0.76	0.92
1:F:875:LEU:HD13	1:F:911:PHE:HE2	0.76	0.92
1:J:547:PRO:HB3	1:J:603:ILE:HG13	1.50	0.92
1:K:312:LEU:HD23	1:K:313:PRO:N	1.85	0.92
1:O:382:PRO:HA	1:O:419:THR:HG22	1.52	0.92
1:O:545:PHE:CZ	1:O:565:ALA:HA	2.04	0.92
1:B:545:PHE:CZ	1:B:565:ALA:HA	2.04	0.92
1:H:382:PRO:HA	1:H:419:THR:HG22	1.52	0.92
1:I:875:LEU:HD13	1:I:911:PHE:HE2	0.76	0.92
1:L:312:LEU:HD23	1:L:313:PRO:N	1.85	0.92
1:M:483:ARG:O	1:M:487:PHE:N	2.03	0.92
1:M:545:PHE:CZ	1:M:565:ALA:HA	2.04	0.92
1:A:382:PRO:HA	1:A:419:THR:HG22	1.52	0.92
1:B:483:ARG:O	1:B:487:PHE:N	2.03	0.92
1:C:312:LEU:HD23	1:C:313:PRO:N	1.85	0.92
1:D:545:PHE:CZ	1:D:565:ALA:HA	2.04	0.92
1:E:312:LEU:HD23	1:E:313:PRO:N	1.85	0.92
1:H:545:PHE:CZ	1:H:565:ALA:HA	2.04	0.92
1:H:875:LEU:HD13	1:H:911:PHE:HE2	0.76	0.92
1:M:382:PRO:HA	1:M:419:THR:HG22	1.52	0.92
1:M:875:LEU:HD13	1:M:911:PHE:HE2	0.76	0.92
1:N:312:LEU:HD23	1:N:313:PRO:CD	2.00	0.92
1:O:875:LEU:CD1	1:O:911:PHE:CD2	2.23	0.92
1:O:875:LEU:HD13	1:O:911:PHE:HE2	0.76	0.92
1:A:312:LEU:HD23	1:A:313:PRO:CD	2.00	0.92
1:B:312:LEU:HD23	1:B:313:PRO:N	1.85	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:547:PRO:HB3	1:E:603:ILE:HG13	1.50	0.92
1:G:382:PRO:HA	1:G:419:THR:HG22	1.52	0.92
1:H:547:PRO:HB3	1:H:603:ILE:HG13	1.50	0.92
1:I:313:PRO:HG3	1:I:338:TRP:HE1	1.28	0.92
1:L:557:LYS:O	1:L:1226:TYR:OH	1.86	0.92
1:P:382:PRO:HA	1:P:419:THR:HG22	1.52	0.92
1:B:312:LEU:HD23	1:B:313:PRO:CD	2.00	0.92
1:C:547:PRO:HB3	1:C:603:ILE:HG13	1.50	0.92
1:F:916:LYS:HE2	1:G:1177:TYR:CE2	2.04	0.92
1:H:483:ARG:O	1:H:487:PHE:N	2.03	0.92
1:J:312:LEU:HD23	1:J:313:PRO:N	1.85	0.92
1:K:545:PHE:CZ	1:K:565:ALA:HA	2.04	0.92
1:M:312:LEU:HD23	1:M:313:PRO:CD	2.00	0.92
1:O:547:PRO:HB3	1:O:603:ILE:HG13	1.50	0.92
1:B:209:SER:OG	1:C:212:ASP:OD2	1.87	0.92
1:C:545:PHE:CZ	1:C:565:ALA:HA	2.04	0.92
1:D:875:LEU:HD13	1:D:911:PHE:HE2	0.76	0.92
1:K:557:LYS:HB3	1:K:1226:TYR:CE1	2.05	0.92
1:K:875:LEU:HD13	1:K:911:PHE:HE2	0.76	0.92
1:L:557:LYS:HB3	1:L:1226:TYR:CE1	2.05	0.92
1:M:312:LEU:HD23	1:M:313:PRO:N	1.85	0.92
1:O:483:ARG:O	1:O:487:PHE:N	2.03	0.92
1:F:875:LEU:CD1	1:F:911:PHE:CD2	2.23	0.92
1:N:382:PRO:HA	1:N:419:THR:HG22	1.52	0.92
1:O:312:LEU:HD23	1:O:313:PRO:CD	2.00	0.92
1:P:505:SER:HG	1:P:513:SER:HG	1.12	0.92
1:A:212:ASP:OD2	1:H:209:SER:OG	1.87	0.91
1:C:312:LEU:HD23	1:C:313:PRO:CD	2.00	0.91
1:D:557:LYS:HB3	1:D:1226:TYR:CE1	2.05	0.91
1:G:518:LEU:CD2	1:G:643:TYR:CD1	2.27	0.91
1:J:483:ARG:O	1:J:487:PHE:N	2.03	0.91
1:J:557:LYS:HB3	1:J:1226:TYR:CE1	2.05	0.91
1:L:483:ARG:O	1:L:487:PHE:N	2.03	0.91
1:L:545:PHE:CZ	1:L:565:ALA:HA	2.04	0.91
1:C:557:LYS:HB3	1:C:1226:TYR:CE1	2.05	0.91
1:E:557:LYS:HB3	1:E:1226:TYR:CE1	2.05	0.91
1:H:312:LEU:HD23	1:H:313:PRO:CD	2.00	0.91
1:J:557:LYS:O	1:J:1226:TYR:OH	1.86	0.91
1:L:875:LEU:HD13	1:L:911:PHE:HE2	0.76	0.91
1:N:545:PHE:CZ	1:N:565:ALA:HA	2.04	0.91
1:O:557:LYS:HB3	1:O:1226:TYR:CE1	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:875:LEU:HD13	1:C:911:PHE:HE2	0.76	0.91
1:E:483:ARG:O	1:E:487:PHE:N	2.03	0.91
1:G:483:ARG:O	1:G:487:PHE:N	2.03	0.91
1:H:557:LYS:HB3	1:H:1226:TYR:CE1	2.05	0.91
1:L:312:LEU:HD23	1:L:313:PRO:CD	2.00	0.91
1:P:483:ARG:O	1:P:487:PHE:N	2.03	0.91
1:A:545:PHE:CZ	1:A:565:ALA:HA	2.04	0.91
1:B:557:LYS:HB3	1:B:1226:TYR:CE1	2.05	0.91
1:B:121:ALA:CB	1:C:276:SER:HB3	1.97	0.91
1:C:382:PRO:HA	1:C:419:THR:HG22	1.52	0.91
1:C:483:ARG:O	1:C:487:PHE:N	2.03	0.91
1:E:557:LYS:O	1:E:1226:TYR:OH	1.86	0.91
1:F:382:PRO:HA	1:F:419:THR:HG22	1.52	0.91
1:F:483:ARG:O	1:F:487:PHE:N	2.03	0.91
1:K:453:PHE:CZ	1:K:460:PRO:HB3	2.06	0.91
1:L:382:PRO:HA	1:L:419:THR:HG22	1.52	0.91
1:M:557:LYS:HB3	1:M:1226:TYR:CE1	2.05	0.91
1:P:518:LEU:CD2	1:P:643:TYR:CD1	2.27	0.91
1:A:557:LYS:HB3	1:A:1226:TYR:CE1	2.05	0.91
1:D:453:PHE:CZ	1:D:460:PRO:HB3	2.06	0.91
1:F:313:PRO:HG3	1:F:338:TRP:HE1	1.28	0.91
1:H:518:LEU:O	1:H:522:LYS:N	2.04	0.91
1:N:557:LYS:HB3	1:N:1226:TYR:CE1	2.05	0.91
1:O:518:LEU:O	1:O:522:LYS:N	2.04	0.91
1:I:483:ARG:O	1:I:487:PHE:N	2.03	0.91
1:B:453:PHE:CZ	1:B:460:PRO:HB3	2.06	0.91
1:F:312:LEU:HD23	1:F:313:PRO:N	1.85	0.91
1:I:312:LEU:HD23	1:I:313:PRO:N	1.85	0.91
1:I:518:LEU:O	1:I:522:LYS:N	2.04	0.91
1:K:557:LYS:O	1:K:1226:TYR:OH	1.86	0.91
1:L:547:PRO:HB3	1:L:603:ILE:HG13	1.50	0.91
1:M:453:PHE:CZ	1:M:460:PRO:HB3	2.06	0.91
1:D:382:PRO:HA	1:D:419:THR:HG22	1.52	0.91
1:D:557:LYS:O	1:D:1226:TYR:OH	1.86	0.91
1:F:518:LEU:O	1:F:522:LYS:N	2.04	0.91
1:B:518:LEU:O	1:B:522:LYS:N	2.04	0.91
1:G:453:PHE:CZ	1:G:460:PRO:HB3	2.06	0.91
1:I:382:PRO:HA	1:I:419:THR:HG22	1.52	0.91
1:M:518:LEU:O	1:M:522:LYS:N	2.04	0.91
1:A:312:LEU:HD23	1:A:313:PRO:N	1.85	0.91
1:C:875:LEU:HD11	1:C:911:PHE:HD2	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:557:LYS:HB3	1:I:1226:TYR:CE1	2.05	0.91
1:K:382:PRO:HA	1:K:419:THR:HG22	1.52	0.91
1:N:312:LEU:HD23	1:N:313:PRO:N	1.85	0.91
1:P:557:LYS:HB3	1:P:1226:TYR:CE1	2.05	0.91
1:G:312:LEU:HD23	1:G:313:PRO:N	1.85	0.90
1:P:312:LEU:HD23	1:P:313:PRO:N	1.85	0.90
1:P:453:PHE:CZ	1:P:460:PRO:HB3	2.06	0.90
1:D:518:LEU:O	1:D:522:LYS:N	2.04	0.90
1:G:557:LYS:HB3	1:G:1226:TYR:CE1	2.05	0.90
1:G:875:LEU:CD1	1:G:911:PHE:CD2	2.23	0.90
1:A:453:PHE:CZ	1:A:460:PRO:HB3	2.06	0.90
1:E:382:PRO:HA	1:E:419:THR:HG22	1.52	0.90
1:K:518:LEU:O	1:K:522:LYS:N	2.04	0.90
1:L:557:LYS:HE3	1:L:1224:LEU:O	1.72	0.90
1:N:518:LEU:O	1:N:522:LYS:N	2.04	0.90
1:N:547:PRO:HB3	1:N:603:ILE:HG13	1.50	0.90
1:P:557:LYS:HE3	1:P:1224:LEU:O	1.72	0.90
1:P:312:LEU:HD23	1:P:313:PRO:CD	2.00	0.90
1:A:518:LEU:O	1:A:522:LYS:N	2.04	0.90
1:C:518:LEU:O	1:C:522:LYS:N	2.04	0.90
1:E:557:LYS:HE3	1:E:1224:LEU:O	1.72	0.90
1:F:312:LEU:HD23	1:F:313:PRO:CD	2.00	0.90
1:G:312:LEU:HD23	1:G:313:PRO:CD	2.00	0.90
1:J:557:LYS:HE3	1:J:1224:LEU:O	1.72	0.90
1:N:453:PHE:CZ	1:N:460:PRO:HB3	2.06	0.90
1:D:312:LEU:HD23	1:D:313:PRO:CD	2.00	0.90
1:F:557:LYS:HB3	1:F:1226:TYR:CE1	2.05	0.90
1:G:518:LEU:O	1:G:522:LYS:N	2.04	0.90
1:G:557:LYS:HE3	1:G:1224:LEU:O	1.72	0.90
1:H:453:PHE:CZ	1:H:460:PRO:HB3	2.06	0.90
1:I:453:PHE:CZ	1:I:460:PRO:HB3	2.06	0.90
1:O:453:PHE:CZ	1:O:460:PRO:HB3	2.06	0.90
1:P:875:LEU:CD1	1:P:911:PHE:CD2	2.24	0.90
1:A:547:PRO:HB3	1:A:603:ILE:HG13	1.50	0.90
1:C:557:LYS:HE3	1:C:1224:LEU:O	1.72	0.90
1:E:518:LEU:O	1:E:522:LYS:N	2.04	0.90
1:I:312:LEU:HD23	1:I:313:PRO:CD	2.00	0.90
1:J:382:PRO:HA	1:J:419:THR:HG22	1.52	0.90
1:P:518:LEU:O	1:P:522:LYS:N	2.04	0.90
1:G:875:LEU:HD13	1:G:911:PHE:HE2	0.76	0.90
1:K:312:LEU:HD23	1:K:313:PRO:CD	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:312:LEU:HD23	1:H:313:PRO:N	1.85	0.90
1:J:312:LEU:HD23	1:J:313:PRO:CD	2.00	0.90
1:J:518:LEU:O	1:J:522:LYS:N	2.04	0.90
1:L:518:LEU:O	1:L:522:LYS:N	2.04	0.90
1:N:557:LYS:HE3	1:N:1224:LEU:O	1.72	0.90
1:O:312:LEU:HD23	1:O:313:PRO:N	1.85	0.90
1:C:453:PHE:CZ	1:C:460:PRO:HB3	2.06	0.90
1:F:916:LYS:CE	1:G:1177:TYR:CE2	2.55	0.90
1:A:557:LYS:HE3	1:A:1224:LEU:O	1.72	0.90
1:E:312:LEU:HD23	1:E:313:PRO:CD	2.00	0.90
1:F:453:PHE:CZ	1:F:460:PRO:HB3	2.06	0.90
1:H:557:LYS:HE3	1:H:1224:LEU:O	1.72	0.90
1:P:875:LEU:HD13	1:P:911:PHE:HE2	0.76	0.90
1:O:557:LYS:HE3	1:O:1224:LEU:O	1.72	0.89
1:B:557:LYS:HE3	1:B:1224:LEU:O	1.72	0.89
1:E:453:PHE:CZ	1:E:460:PRO:HB3	2.06	0.89
1:J:453:PHE:CZ	1:J:460:PRO:HB3	2.06	0.89
1:L:453:PHE:CZ	1:L:460:PRO:HB3	2.06	0.89
1:M:557:LYS:HE3	1:M:1224:LEU:O	1.72	0.89
1:B:333:ASP:OD2	1:C:403:ASN:ND2	2.04	0.89
1:K:222:HIS:CG	1:L:198:LYS:HZ1	1.91	0.89
1:I:276:SER:CB	1:J:121:ALA:HB1	2.03	0.89
1:A:518:LEU:CD2	1:A:643:TYR:CD1	2.27	0.89
1:J:504:ASP:HB3	1:J:509:ASN:O	1.73	0.89
1:B:504:ASP:HB3	1:B:509:ASN:O	1.73	0.89
1:C:505:SER:HG	1:C:513:SER:HG	1.12	0.89
1:G:121:ALA:HB1	1:H:276:SER:CB	2.03	0.89
1:I:557:LYS:HE3	1:I:1224:LEU:O	1.72	0.89
1:I:504:ASP:HB3	1:I:509:ASN:O	1.73	0.89
1:M:504:ASP:HB3	1:M:509:ASN:O	1.73	0.89
1:N:518:LEU:CD2	1:N:643:TYR:CD1	2.27	0.89
1:E:504:ASP:HB3	1:E:509:ASN:O	1.73	0.88
1:H:504:ASP:HB3	1:H:509:ASN:O	1.73	0.88
1:K:557:LYS:HE3	1:K:1224:LEU:O	1.72	0.88
1:O:504:ASP:HB3	1:O:509:ASN:O	1.73	0.88
1:F:504:ASP:HB3	1:F:509:ASN:O	1.73	0.88
1:C:875:LEU:CD1	1:C:911:PHE:CD2	2.23	0.88
1:G:914:VAL:HG13	1:G:917:TYR:O	1.73	0.88
1:K:222:HIS:CG	1:L:198:LYS:NZ	2.41	0.88
1:H:914:VAL:HG13	1:H:917:TYR:O	1.74	0.88
1:P:914:VAL:HG13	1:P:917:TYR:O	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:557:LYS:HE3	1:D:1224:LEU:O	1.72	0.88
1:E:914:VAL:HG13	1:E:917:TYR:O	1.74	0.88
1:F:557:LYS:HE3	1:F:1224:LEU:O	1.72	0.88
1:J:914:VAL:HG13	1:J:917:TYR:O	1.73	0.88
1:K:504:ASP:HB3	1:K:509:ASN:O	1.73	0.88
1:O:914:VAL:HG13	1:O:917:TYR:O	1.74	0.88
1:B:914:VAL:HG13	1:B:917:TYR:O	1.73	0.88
1:M:914:VAL:HG13	1:M:917:TYR:O	1.73	0.88
1:K:875:LEU:HD11	1:K:911:PHE:HD2	1.35	0.88
1:N:276:SER:CB	1:O:121:ALA:HB1	2.02	0.88
1:D:504:ASP:HB3	1:D:509:ASN:O	1.73	0.88
1:L:505:SER:HG	1:L:513:SER:HG	1.12	0.88
1:L:875:LEU:CD1	1:L:911:PHE:CD2	2.24	0.88
1:M:276:SER:CB	1:N:121:ALA:HB1	2.03	0.88
1:D:875:LEU:HD11	1:D:911:PHE:HD2	1.35	0.88
1:G:504:ASP:HB3	1:G:509:ASN:O	1.73	0.88
1:L:442:SER:O	1:L:446:HIS:HD2	1.57	0.88
1:P:504:ASP:HB3	1:P:509:ASN:O	1.73	0.88
1:G:505:SER:HG	1:G:513:SER:HG	1.16	0.87
1:A:504:ASP:HB3	1:A:509:ASN:O	1.73	0.87
1:D:509:ASN:HD21	1:D:632:LEU:CD1	1.88	0.87
1:H:442:SER:O	1:H:446:HIS:HD2	1.57	0.87
1:K:509:ASN:HD21	1:K:632:LEU:CD1	1.88	0.87
1:N:504:ASP:HB3	1:N:509:ASN:O	1.73	0.87
1:C:442:SER:O	1:C:446:HIS:HD2	1.57	0.87
1:G:509:ASN:HD21	1:G:632:LEU:CD1	1.88	0.87
1:N:914:VAL:HG13	1:N:917:TYR:O	1.74	0.87
1:O:442:SER:O	1:O:446:HIS:HD2	1.57	0.87
1:P:509:ASN:HD21	1:P:632:LEU:CD1	1.88	0.87
1:C:504:ASP:HB3	1:C:509:ASN:O	1.73	0.87
1:J:505:SER:HG	1:J:513:SER:HG	1.17	0.87
1:L:914:VAL:HG13	1:L:917:TYR:O	1.73	0.87
1:N:509:ASN:HD21	1:N:632:LEU:CD1	1.88	0.87
1:A:509:ASN:HD21	1:A:632:LEU:CD1	1.88	0.87
1:B:509:ASN:HD21	1:B:632:LEU:CD1	1.88	0.87
1:F:509:ASN:HD21	1:F:632:LEU:CD1	1.88	0.87
1:F:914:VAL:HG13	1:F:917:TYR:O	1.74	0.87
1:I:509:ASN:HD21	1:I:632:LEU:CD1	1.88	0.87
1:A:914:VAL:HG13	1:A:917:TYR:O	1.74	0.87
1:M:509:ASN:HD21	1:M:632:LEU:CD1	1.88	0.87
1:L:504:ASP:HB3	1:L:509:ASN:O	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:875:LEU:HD11	1:N:911:PHE:HD2	1.34	0.87
1:J:442:SER:O	1:J:446:HIS:HD2	1.57	0.87
1:D:914:VAL:HG13	1:D:917:TYR:O	1.74	0.86
1:E:442:SER:O	1:E:446:HIS:HD2	1.57	0.86
1:I:914:VAL:HG13	1:I:917:TYR:O	1.74	0.86
1:C:914:VAL:HG13	1:C:917:TYR:O	1.73	0.86
1:F:442:SER:O	1:F:446:HIS:HD2	1.57	0.86
1:L:509:ASN:HD21	1:L:632:LEU:CD1	1.88	0.86
1:H:509:ASN:HD21	1:H:632:LEU:CD1	1.88	0.86
1:K:914:VAL:HG13	1:K:917:TYR:O	1.74	0.86
1:A:875:LEU:HD11	1:A:911:PHE:HD2	1.35	0.86
1:O:509:ASN:HD21	1:O:632:LEU:CD1	1.88	0.86
1:C:509:ASN:HD21	1:C:632:LEU:CD1	1.88	0.86
1:E:509:ASN:HD21	1:E:632:LEU:CD1	1.88	0.86
1:O:508:TRP:C	1:O:606:GLY:HA3	1.96	0.86
1:I:442:SER:O	1:I:446:HIS:HD2	1.57	0.86
1:H:508:TRP:C	1:H:606:GLY:HA3	1.97	0.86
1:J:509:ASN:HD21	1:J:632:LEU:CD1	1.88	0.86
1:J:403:ASN:ND2	1:K:333:ASP:OD2	2.09	0.86
1:F:508:TRP:C	1:F:606:GLY:HA3	1.97	0.85
1:A:276:SER:CB	1:H:121:ALA:HB1	2.04	0.85
1:E:505:SER:HG	1:E:513:SER:HG	1.18	0.85
1:E:508:TRP:C	1:E:606:GLY:HA3	1.96	0.85
1:G:875:LEU:HD11	1:G:911:PHE:HD2	1.34	0.85
1:I:508:TRP:C	1:I:606:GLY:HA3	1.96	0.85
1:J:508:TRP:C	1:J:606:GLY:HA3	1.97	0.85
1:M:508:TRP:C	1:M:606:GLY:HA3	1.96	0.85
1:B:508:TRP:C	1:B:606:GLY:HA3	1.97	0.85
1:O:276:SER:CB	1:P:121:ALA:HB1	2.06	0.85
1:P:875:LEU:HD11	1:P:911:PHE:HD2	1.35	0.85
1:D:298:LYS:HG3	1:D:312:LEU:CD1	2.07	0.85
1:H:505:SER:HG	1:H:513:SER:HG	1.07	0.85
1:K:298:LYS:HG3	1:K:312:LEU:CD1	2.07	0.85
1:N:442:SER:O	1:N:446:HIS:HD2	1.58	0.85
1:P:508:TRP:C	1:P:606:GLY:HA3	1.96	0.85
1:G:508:TRP:C	1:G:606:GLY:HA3	1.96	0.85
1:L:633:THR:HG21	1:L:643:TYR:HA	1.59	0.85
1:B:298:LYS:HG3	1:B:312:LEU:CD1	2.07	0.85
1:C:633:THR:HG21	1:C:643:TYR:HA	1.59	0.85
1:F:633:THR:HG21	1:F:643:TYR:HA	1.59	0.85
1:G:298:LYS:HG3	1:G:312:LEU:CD1	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:633:THR:HG21	1:I:643:TYR:HA	1.59	0.85
1:L:508:TRP:C	1:L:606:GLY:HA3	1.97	0.85
1:P:298:LYS:HG3	1:P:312:LEU:CD1	2.07	0.85
1:C:508:TRP:C	1:C:606:GLY:HA3	1.97	0.85
1:E:633:THR:HG21	1:E:643:TYR:HA	1.59	0.85
1:F:300:LEU:HD13	2:F:1501:DTP:H2	1.59	0.85
1:I:389:ILE:HD13	1:I:446:HIS:HE2	1.42	0.85
1:I:463:LEU:HD22	1:I:467:PHE:CD2	2.12	0.85
1:J:633:THR:HG21	1:J:643:TYR:HA	1.59	0.85
1:M:298:LYS:HG3	1:M:312:LEU:CD1	2.07	0.85
1:A:442:SER:O	1:A:446:HIS:HD2	1.57	0.84
1:E:463:LEU:HD22	1:E:467:PHE:CD2	2.12	0.84
1:I:300:LEU:HD13	2:I:1501:DTP:H2	1.60	0.84
1:P:442:SER:O	1:P:446:HIS:HD2	1.57	0.84
1:A:298:LYS:HG3	1:A:312:LEU:CD1	2.07	0.84
1:A:508:TRP:C	1:A:606:GLY:HA3	1.97	0.84
1:F:389:ILE:HD13	1:F:446:HIS:HE2	1.42	0.84
1:F:463:LEU:HD22	1:F:467:PHE:CD2	2.12	0.84
1:I:298:LYS:HG3	1:I:312:LEU:CD1	2.07	0.84
1:N:298:LYS:HG3	1:N:312:LEU:CD1	2.07	0.84
1:D:633:THR:HG21	1:D:643:TYR:HA	1.59	0.84
1:F:298:LYS:HG3	1:F:312:LEU:CD1	2.07	0.84
1:J:463:LEU:HD22	1:J:467:PHE:CD2	2.12	0.84
1:K:300:LEU:HD13	2:K:1501:DTP:H2	1.60	0.84
1:M:252:ALA:O	1:M:253:TRP:C	2.15	0.84
1:N:508:TRP:C	1:N:606:GLY:HA3	1.96	0.84
1:D:389:ILE:HD13	1:D:446:HIS:HE2	1.42	0.84
1:K:389:ILE:HD13	1:K:446:HIS:HE2	1.42	0.84
1:K:633:THR:HG21	1:K:643:TYR:HA	1.59	0.84
1:L:300:LEU:HD13	2:L:1501:DTP:H2	1.60	0.84
1:O:298:LYS:HG3	1:O:312:LEU:CD1	2.07	0.84
1:B:252:ALA:O	1:B:253:TRP:C	2.15	0.84
1:B:505:SER:HG	1:B:513:SER:HG	1.21	0.84
1:C:300:LEU:HD13	2:C:1501:DTP:H2	1.60	0.84
1:D:300:LEU:HD13	2:D:1501:DTP:H2	1.60	0.84
1:D:463:LEU:HD22	1:D:467:PHE:CD2	2.12	0.84
1:E:492:LEU:CD2	1:E:562:LEU:HD23	2.08	0.84
1:J:492:LEU:CD2	1:J:562:LEU:HD23	2.08	0.84
1:K:463:LEU:HD22	1:K:467:PHE:CD2	2.12	0.84
1:P:492:LEU:CD2	1:P:562:LEU:HD23	2.08	0.84
1:A:633:THR:HG21	1:A:643:TYR:HA	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:LEU:HD22	1:G:164:VAL:HG11	1.60	0.84
1:G:442:SER:O	1:G:446:HIS:HD2	1.57	0.84
1:G:492:LEU:CD2	1:G:562:LEU:HD23	2.08	0.84
1:H:298:LYS:HG3	1:H:312:LEU:CD1	2.07	0.84
1:N:633:THR:HG21	1:N:643:TYR:HA	1.59	0.84
1:A:252:ALA:O	1:A:253:TRP:C	2.15	0.84
1:E:300:LEU:HD13	2:E:1501:DTP:H2	1.60	0.84
1:E:875:LEU:HD11	1:E:911:PHE:HD2	1.35	0.84
1:G:300:LEU:HD13	2:G:1501:DTP:H2	1.60	0.84
1:J:875:LEU:HD11	1:J:911:PHE:HD2	1.34	0.84
1:M:492:LEU:CD2	1:M:562:LEU:HD23	2.08	0.84
1:O:134:LEU:HD22	1:O:164:VAL:HG11	1.59	0.84
1:P:134:LEU:HD22	1:P:164:VAL:HG11	1.60	0.84
1:B:492:LEU:CD2	1:B:562:LEU:HD23	2.08	0.84
1:E:252:ALA:O	1:E:253:TRP:C	2.15	0.84
1:J:300:LEU:HD13	2:J:1501:DTP:H2	1.60	0.84
1:J:252:ALA:O	1:J:253:TRP:C	2.15	0.84
1:M:505:SER:HG	1:M:513:SER:HG	1.21	0.84
1:P:300:LEU:HD13	2:P:1501:DTP:H2	1.60	0.84
1:D:492:LEU:CD2	1:D:562:LEU:HD23	2.08	0.84
1:G:633:THR:HG21	1:G:643:TYR:HA	1.59	0.84
1:H:134:LEU:HD22	1:H:164:VAL:HG11	1.60	0.84
1:H:389:ILE:HD13	1:H:446:HIS:HE2	1.42	0.84
1:K:492:LEU:CD2	1:K:562:LEU:HD23	2.08	0.84
1:L:492:LEU:CD2	1:L:562:LEU:HD23	2.08	0.84
1:N:252:ALA:O	1:N:253:TRP:C	2.15	0.84
1:N:389:ILE:HD13	1:N:446:HIS:HE2	1.42	0.84
1:O:492:LEU:CD2	1:O:562:LEU:HD23	2.08	0.84
1:A:389:ILE:HD13	1:A:446:HIS:HE2	1.42	0.84
1:A:492:LEU:CD2	1:A:562:LEU:HD23	2.08	0.84
1:B:389:ILE:HD13	1:B:446:HIS:HE2	1.42	0.84
1:B:442:SER:O	1:B:446:HIS:HD2	1.57	0.84
1:C:492:LEU:CD2	1:C:562:LEU:HD23	2.08	0.84
1:E:298:LYS:HG3	1:E:312:LEU:CD1	2.07	0.84
1:K:249:ASN:HB2	1:K:252:ALA:HB2	1.60	0.84
1:O:633:THR:HG21	1:O:643:TYR:HA	1.59	0.84
1:A:463:LEU:HD22	1:A:467:PHE:CD2	2.12	0.83
1:B:300:LEU:HD13	2:B:1501:DTP:H2	1.59	0.83
1:D:249:ASN:HB2	1:D:252:ALA:HB2	1.60	0.83
1:F:492:LEU:CD2	1:F:562:LEU:HD23	2.08	0.83
1:H:492:LEU:CD2	1:H:562:LEU:HD23	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:492:LEU:CD2	1:N:562:LEU:HD23	2.08	0.83
1:P:633:THR:HG21	1:P:643:TYR:HA	1.59	0.83
1:F:134:LEU:HD22	1:F:164:VAL:HG11	1.60	0.83
1:G:249:ASN:HB2	1:G:252:ALA:HB2	1.60	0.83
1:I:134:LEU:HD22	1:I:164:VAL:HG11	1.60	0.83
1:M:389:ILE:HD13	1:M:446:HIS:HE2	1.42	0.83
1:M:463:LEU:HD22	1:M:467:PHE:CD2	2.12	0.83
1:N:463:LEU:HD22	1:N:467:PHE:CD2	2.12	0.83
1:P:249:ASN:HB2	1:P:252:ALA:HB2	1.60	0.83
1:B:463:LEU:HD22	1:B:467:PHE:CD2	2.12	0.83
1:C:298:LYS:HG3	1:C:312:LEU:CD1	2.07	0.83
1:D:252:ALA:O	1:D:253:TRP:C	2.15	0.83
1:H:548:LYS:HZ2	1:H:601:GLN:HA	1.43	0.83
1:H:633:THR:HG21	1:H:643:TYR:HA	1.59	0.83
1:I:492:LEU:CD2	1:I:562:LEU:HD23	2.08	0.83
1:J:298:LYS:HG3	1:J:312:LEU:CD1	2.07	0.83
1:O:389:ILE:HD13	1:O:446:HIS:HE2	1.42	0.83
1:O:548:LYS:HZ2	1:O:601:GLN:HA	1.43	0.83
1:E:378:SER:CA	1:E:422:ILE:HD12	2.09	0.83
1:F:875:LEU:HD11	1:F:911:PHE:HD2	1.35	0.83
1:H:463:LEU:HD22	1:H:467:PHE:CD2	2.12	0.83
1:I:249:ASN:HB2	1:I:252:ALA:HB2	1.60	0.83
1:K:252:ALA:O	1:K:253:TRP:C	2.15	0.83
1:K:508:TRP:C	1:K:606:GLY:HA3	1.97	0.83
1:L:298:LYS:HG3	1:L:312:LEU:CD1	2.07	0.83
1:L:463:LEU:HD22	1:L:467:PHE:CD2	2.12	0.83
1:M:300:LEU:HD13	2:M:1501:DTP:H2	1.60	0.83
1:C:252:ALA:O	1:C:253:TRP:C	2.15	0.83
1:C:463:LEU:HD22	1:C:467:PHE:CD2	2.12	0.83
1:D:508:TRP:C	1:D:606:GLY:HA3	1.97	0.83
1:J:378:SER:CA	1:J:422:ILE:HD12	2.09	0.83
1:P:463:LEU:HD22	1:P:467:PHE:CD2	2.12	0.83
1:F:249:ASN:HB2	1:F:252:ALA:HB2	1.60	0.83
1:G:463:LEU:HD22	1:G:467:PHE:CD2	2.12	0.83
1:H:875:LEU:HD11	1:H:911:PHE:HD2	1.35	0.83
1:O:875:LEU:HD11	1:O:911:PHE:HD2	1.35	0.83
1:E:194:GLU:OE2	1:F:216:ASN:ND2	2.10	0.83
1:K:442:SER:O	1:K:446:HIS:HD2	1.58	0.83
1:L:914:VAL:CG1	1:L:917:TYR:O	2.27	0.83
1:O:300:LEU:HD13	2:O:1501:DTP:H2	1.60	0.83
1:O:463:LEU:HD22	1:O:467:PHE:CD2	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:633:THR:HG21	1:G:642:THR:C	1.99	0.83
1:G:914:VAL:CG1	1:G:917:TYR:O	2.27	0.83
1:N:134:LEU:HD22	1:N:164:VAL:HG11	1.60	0.83
1:C:914:VAL:CG1	1:C:917:TYR:O	2.27	0.83
1:F:622:LEU:CB	1:F:634:ASP:HB2	2.09	0.83
1:F:633:THR:HG21	1:F:642:THR:C	1.99	0.83
1:H:300:LEU:HD13	2:H:1501:DTP:H2	1.60	0.83
1:I:633:THR:HG21	1:I:642:THR:C	1.99	0.83
1:I:914:VAL:CG1	1:I:917:TYR:O	2.27	0.83
1:L:252:ALA:O	1:L:253:TRP:C	2.15	0.83
1:M:622:LEU:CB	1:M:634:ASP:HB2	2.09	0.83
1:P:633:THR:HG21	1:P:642:THR:C	1.99	0.83
1:A:300:LEU:HD13	2:A:1501:DTP:H2	1.60	0.83
1:B:622:LEU:CB	1:B:634:ASP:HB2	2.09	0.83
1:D:914:VAL:CG1	1:D:917:TYR:O	2.27	0.83
1:F:914:VAL:CG1	1:F:917:TYR:O	2.27	0.83
1:I:622:LEU:CB	1:I:634:ASP:HB2	2.09	0.83
1:P:378:SER:CA	1:P:422:ILE:HD12	2.09	0.83
1:P:914:VAL:CG1	1:P:917:TYR:O	2.27	0.83
1:A:134:LEU:HD22	1:A:164:VAL:HG11	1.60	0.82
1:A:186:CYS:O	1:A:249:ASN:ND2	2.12	0.82
1:G:378:SER:CA	1:G:422:ILE:HD12	2.09	0.82
1:J:186:CYS:O	1:J:249:ASN:ND2	2.12	0.82
1:K:914:VAL:CG1	1:K:917:TYR:O	2.27	0.82
1:N:300:LEU:HD13	2:N:1501:DTP:H2	1.60	0.82
1:N:186:CYS:O	1:N:249:ASN:ND2	2.12	0.82
1:C:389:ILE:HD13	1:C:446:HIS:HE2	1.42	0.82
1:C:622:LEU:CB	1:C:634:ASP:HB2	2.09	0.82
1:D:442:SER:O	1:D:446:HIS:HD2	1.57	0.82
1:E:186:CYS:O	1:E:249:ASN:ND2	2.13	0.82
1:E:413:LYS:HD3	1:E:422:ILE:O	1.79	0.82
1:F:186:CYS:O	1:F:249:ASN:ND2	2.12	0.82
1:H:413:LYS:HD3	1:H:422:ILE:O	1.79	0.82
1:H:457:ASP:OD1	1:H:587:ARG:HB2	1.80	0.82
1:H:633:THR:HG21	1:H:642:THR:C	1.99	0.82
1:I:186:CYS:O	1:I:249:ASN:ND2	2.12	0.82
1:I:875:LEU:HD11	1:I:911:PHE:HD2	1.35	0.82
1:M:413:LYS:HD3	1:M:422:ILE:O	1.79	0.82
1:M:457:ASP:OD1	1:M:587:ARG:HB2	1.80	0.82
1:N:622:LEU:CB	1:N:634:ASP:HB2	2.09	0.82
1:O:413:LYS:HD3	1:O:422:ILE:O	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:ASN:HB2	1:A:252:ALA:HB2	1.60	0.82
1:A:622:LEU:CB	1:A:634:ASP:HB2	2.09	0.82
1:B:413:LYS:HD3	1:B:422:ILE:O	1.79	0.82
1:B:457:ASP:OD1	1:B:587:ARG:HB2	1.80	0.82
1:E:633:THR:HG21	1:E:642:THR:C	1.99	0.82
1:G:186:CYS:O	1:G:249:ASN:ND2	2.12	0.82
1:G:622:LEU:CB	1:G:634:ASP:HB2	2.09	0.82
1:H:622:LEU:CB	1:H:634:ASP:HB2	2.09	0.82
1:J:413:LYS:HD3	1:J:422:ILE:O	1.79	0.82
1:L:378:SER:CA	1:L:422:ILE:HD12	2.09	0.82
1:L:457:ASP:OD1	1:L:587:ARG:HB2	1.80	0.82
1:L:622:LEU:CB	1:L:634:ASP:HB2	2.09	0.82
1:O:457:ASP:OD1	1:O:587:ARG:HB2	1.80	0.82
1:O:633:THR:HG21	1:O:642:THR:C	1.99	0.82
1:P:186:CYS:O	1:P:249:ASN:ND2	2.12	0.82
1:P:622:LEU:CB	1:P:634:ASP:HB2	2.09	0.82
1:B:249:ASN:HB2	1:B:252:ALA:HB2	1.60	0.82
1:B:633:THR:HG21	1:B:642:THR:C	1.99	0.82
1:C:134:LEU:HD22	1:C:164:VAL:HG11	1.60	0.82
1:C:413:LYS:HD3	1:C:422:ILE:O	1.79	0.82
1:J:633:THR:HG21	1:J:642:THR:C	1.99	0.82
1:M:249:ASN:HB2	1:M:252:ALA:HB2	1.60	0.82
1:N:249:ASN:HB2	1:N:252:ALA:HB2	1.60	0.82
1:O:252:ALA:O	1:O:253:TRP:C	2.15	0.82
1:A:548:LYS:HZ2	1:A:601:GLN:HA	1.43	0.82
1:B:517:THR:O	1:B:520:GLN:N	2.13	0.82
1:C:186:CYS:O	1:C:249:ASN:ND2	2.12	0.82
1:C:457:ASP:OD1	1:C:587:ARG:HB2	1.80	0.82
1:D:505:SER:HG	1:D:513:SER:HG	1.26	0.82
1:D:875:LEU:CD1	1:D:911:PHE:CD2	2.24	0.82
1:E:249:ASN:HB2	1:E:252:ALA:HB2	1.60	0.82
1:H:252:ALA:O	1:H:253:TRP:C	2.15	0.82
1:K:457:ASP:OD1	1:K:587:ARG:HB2	1.80	0.82
1:L:389:ILE:HD13	1:L:446:HIS:HE2	1.42	0.82
1:L:413:LYS:HD3	1:L:422:ILE:O	1.79	0.82
1:M:517:THR:O	1:M:520:GLN:N	2.13	0.82
1:M:633:THR:HG21	1:M:642:THR:C	1.99	0.82
1:M:914:VAL:CG1	1:M:917:TYR:O	2.27	0.82
1:O:622:LEU:CB	1:O:634:ASP:HB2	2.09	0.82
1:D:186:CYS:O	1:D:249:ASN:ND2	2.12	0.82
1:D:457:ASP:OD1	1:D:587:ARG:HB2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:389:ILE:HD13	1:E:446:HIS:HE2	1.42	0.82
1:F:517:THR:O	1:F:520:GLN:N	2.13	0.82
1:H:517:THR:O	1:H:520:GLN:N	2.13	0.82
1:I:378:SER:CA	1:I:422:ILE:HD12	2.09	0.82
1:I:457:ASP:OD1	1:I:587:ARG:HB2	1.80	0.82
1:K:186:CYS:O	1:K:249:ASN:ND2	2.12	0.82
1:L:186:CYS:O	1:L:249:ASN:ND2	2.12	0.82
1:N:252:ALA:O	1:N:254:ASN:N	2.13	0.82
1:O:249:ASN:HB2	1:O:252:ALA:HB2	1.60	0.82
1:O:517:THR:O	1:O:520:GLN:N	2.13	0.82
1:A:252:ALA:O	1:A:254:ASN:N	2.13	0.82
1:A:378:SER:CA	1:A:422:ILE:HD12	2.09	0.82
1:B:914:VAL:CG1	1:B:917:TYR:O	2.27	0.82
1:D:134:LEU:HD22	1:D:164:VAL:HG11	1.60	0.82
1:E:134:LEU:HD22	1:E:164:VAL:HG11	1.60	0.82
1:F:457:ASP:OD1	1:F:587:ARG:HB2	1.80	0.82
1:H:249:ASN:HB2	1:H:252:ALA:HB2	1.60	0.82
1:H:914:VAL:CG1	1:H:917:TYR:O	2.27	0.82
1:K:134:LEU:HD22	1:K:164:VAL:HG11	1.60	0.82
1:L:134:LEU:HD22	1:L:164:VAL:HG11	1.60	0.82
1:N:378:SER:CA	1:N:422:ILE:HD12	2.09	0.82
1:N:548:LYS:HZ2	1:N:601:GLN:HA	1.43	0.82
1:O:378:SER:CA	1:O:422:ILE:HD12	2.09	0.82
1:A:312:LEU:HD23	1:A:313:PRO:HD2	1.62	0.82
1:B:252:ALA:O	1:B:254:ASN:N	2.13	0.82
1:B:633:THR:HG21	1:B:643:TYR:HA	1.59	0.82
1:C:378:SER:CA	1:C:422:ILE:HD12	2.09	0.82
1:D:252:ALA:O	1:D:254:ASN:N	2.13	0.82
1:H:378:SER:CA	1:H:422:ILE:HD12	2.09	0.82
1:I:517:THR:O	1:I:520:GLN:N	2.13	0.82
1:J:914:VAL:CG1	1:J:917:TYR:O	2.27	0.82
1:K:875:LEU:CD1	1:K:911:PHE:CD2	2.23	0.82
1:L:517:THR:O	1:L:520:GLN:N	2.13	0.82
1:M:252:ALA:O	1:M:254:ASN:N	2.13	0.82
1:N:312:LEU:HD23	1:N:313:PRO:HD2	1.62	0.82
1:E:914:VAL:CG1	1:E:917:TYR:O	2.27	0.82
1:G:517:THR:O	1:G:520:GLN:N	2.13	0.82
1:H:492:LEU:HD23	1:H:562:LEU:HD23	1.62	0.82
1:K:252:ALA:O	1:K:254:ASN:N	2.13	0.82
1:K:517:THR:O	1:K:520:GLN:N	2.13	0.82
1:N:507:ALA:O	1:N:608:ASN:HB2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:914:VAL:CG1	1:N:917:TYR:O	2.27	0.82
1:O:492:LEU:HD23	1:O:562:LEU:HD23	1.62	0.82
1:O:914:VAL:CG1	1:O:917:TYR:O	2.27	0.82
1:P:517:THR:O	1:P:520:GLN:N	2.13	0.82
1:A:507:ALA:O	1:A:608:ASN:HB2	1.80	0.82
1:A:914:VAL:CG1	1:A:917:TYR:O	2.27	0.82
1:C:517:THR:O	1:C:520:GLN:N	2.13	0.82
1:D:378:SER:CA	1:D:422:ILE:HD12	2.09	0.82
1:D:517:THR:O	1:D:520:GLN:N	2.13	0.82
1:E:252:ALA:O	1:E:254:ASN:N	2.13	0.82
1:E:457:ASP:OD1	1:E:587:ARG:HB2	1.80	0.82
1:H:252:ALA:O	1:H:254:ASN:N	2.13	0.82
1:J:134:LEU:HD22	1:J:164:VAL:HG11	1.60	0.82
1:J:249:ASN:HB2	1:J:252:ALA:HB2	1.60	0.82
1:J:457:ASP:OD1	1:J:587:ARG:HB2	1.80	0.82
1:M:633:THR:HG21	1:M:643:TYR:HA	1.59	0.82
1:O:507:ALA:O	1:O:608:ASN:HB2	1.80	0.82
1:F:378:SER:CA	1:F:422:ILE:HD12	2.09	0.81
1:I:413:LYS:HD3	1:I:422:ILE:O	1.79	0.81
1:J:252:ALA:O	1:J:254:ASN:N	2.13	0.81
1:J:389:ILE:HD13	1:J:446:HIS:HE2	1.42	0.81
1:K:378:SER:CA	1:K:422:ILE:HD12	2.09	0.81
1:L:604:ASN:HD22	1:L:929:VAL:H	1.28	0.81
1:O:186:CYS:O	1:O:249:ASN:ND2	2.12	0.81
1:O:252:ALA:O	1:O:254:ASN:N	2.13	0.81
1:P:252:ALA:O	1:P:253:TRP:C	2.15	0.81
1:B:186:CYS:O	1:B:249:ASN:ND2	2.12	0.81
1:C:604:ASN:HD22	1:C:929:VAL:H	1.28	0.81
1:H:186:CYS:O	1:H:249:ASN:ND2	2.12	0.81
1:K:413:LYS:HD3	1:K:422:ILE:O	1.79	0.81
1:M:186:CYS:O	1:M:249:ASN:ND2	2.12	0.81
1:N:633:THR:HG21	1:N:642:THR:C	1.99	0.81
1:A:633:THR:HG21	1:A:642:THR:C	1.99	0.81
1:D:413:LYS:HD3	1:D:422:ILE:O	1.79	0.81
1:F:413:LYS:HD3	1:F:422:ILE:O	1.79	0.81
1:F:508:TRP:CA	1:F:606:GLY:CA	2.48	0.81
1:G:252:ALA:O	1:G:253:TRP:C	2.15	0.81
1:H:507:ALA:O	1:H:608:ASN:HB2	1.80	0.81
1:K:507:ALA:O	1:K:608:ASN:HB2	1.80	0.81
1:L:875:LEU:HD11	1:L:911:PHE:HD2	1.34	0.81
1:P:492:LEU:HD23	1:P:562:LEU:HD23	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:633:THR:HG21	1:C:642:THR:C	1.99	0.81
1:D:633:THR:HG21	1:D:642:THR:C	1.99	0.81
1:K:633:THR:HG21	1:K:642:THR:C	1.99	0.81
1:K:622:LEU:CB	1:K:634:ASP:HB2	2.09	0.81
1:L:252:ALA:O	1:L:254:ASN:N	2.13	0.81
1:B:134:LEU:HD22	1:B:164:VAL:HG11	1.60	0.81
1:F:252:ALA:O	1:F:253:TRP:C	2.15	0.81
1:G:492:LEU:HD23	1:G:562:LEU:HD23	1.62	0.81
1:O:312:LEU:HD23	1:O:313:PRO:HD2	1.62	0.81
1:A:413:LYS:HD3	1:A:422:ILE:O	1.79	0.81
1:A:508:TRP:CA	1:A:606:GLY:CA	2.48	0.81
1:C:194:GLU:OE2	1:D:216:ASN:ND2	2.14	0.81
1:D:507:ALA:O	1:D:608:ASN:HB2	1.80	0.81
1:D:622:LEU:CB	1:D:634:ASP:HB2	2.09	0.81
1:G:413:LYS:HD3	1:G:422:ILE:O	1.79	0.81
1:H:312:LEU:HD23	1:H:313:PRO:HD2	1.62	0.81
1:M:134:LEU:HD22	1:M:164:VAL:HG11	1.60	0.81
1:M:312:LEU:HD23	1:M:313:PRO:HD2	1.62	0.81
1:N:548:LYS:HZ2	1:N:601:GLN:CA	1.94	0.81
1:P:413:LYS:HD3	1:P:422:ILE:O	1.79	0.81
1:A:457:ASP:OD1	1:A:587:ARG:HB2	1.79	0.81
1:A:548:LYS:HZ2	1:A:601:GLN:CA	1.94	0.81
1:B:507:ALA:O	1:B:608:ASN:HB2	1.80	0.81
1:C:249:ASN:HB2	1:C:252:ALA:HB2	1.60	0.81
1:C:252:ALA:O	1:C:254:ASN:N	2.13	0.81
1:F:252:ALA:O	1:F:254:ASN:N	2.13	0.81
1:H:548:LYS:HZ2	1:H:601:GLN:CA	1.94	0.81
1:I:252:ALA:O	1:I:253:TRP:C	2.15	0.81
1:L:249:ASN:HB2	1:L:252:ALA:HB2	1.60	0.81
1:B:312:LEU:HD23	1:B:313:PRO:HD2	1.62	0.81
1:B:378:SER:CA	1:B:422:ILE:HD12	2.09	0.81
1:E:517:THR:O	1:E:520:GLN:N	2.13	0.81
1:I:508:TRP:CA	1:I:606:GLY:CA	2.48	0.81
1:J:517:THR:O	1:J:520:GLN:N	2.13	0.81
1:L:633:THR:HG21	1:L:642:THR:C	1.99	0.81
1:M:378:SER:CA	1:M:422:ILE:HD12	2.09	0.81
1:M:507:ALA:O	1:M:608:ASN:HB2	1.80	0.81
1:N:508:TRP:CA	1:N:606:GLY:CA	2.48	0.81
1:E:492:LEU:HD23	1:E:562:LEU:HD23	1.62	0.81
1:J:492:LEU:HD23	1:J:562:LEU:HD23	1.62	0.81
1:L:440:HIS:O	1:L:444:VAL:N	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:413:LYS:HD3	1:N:422:ILE:O	1.79	0.81
1:O:548:LYS:HZ2	1:O:601:GLN:CA	1.94	0.81
1:A:440:HIS:O	1:A:444:VAL:N	2.14	0.81
1:I:252:ALA:O	1:I:254:ASN:N	2.13	0.81
1:J:507:ALA:O	1:J:608:ASN:HB2	1.80	0.81
1:N:440:HIS:O	1:N:444:VAL:N	2.14	0.81
1:N:517:THR:O	1:N:520:GLN:N	2.13	0.81
1:N:457:ASP:OD1	1:N:587:ARG:HB2	1.80	0.81
1:A:517:THR:O	1:A:520:GLN:N	2.13	0.81
1:C:440:HIS:O	1:C:444:VAL:N	2.14	0.81
1:E:354:GLU:OE1	1:E:430:LYS:HE3	1.81	0.81
1:E:604:ASN:HD22	1:E:929:VAL:H	1.28	0.81
1:G:252:ALA:O	1:G:254:ASN:N	2.13	0.81
1:G:548:LYS:HZ2	1:G:601:GLN:HA	1.45	0.81
1:J:312:LEU:HD23	1:J:313:PRO:HD2	1.62	0.81
1:J:354:GLU:OE1	1:J:430:LYS:HE3	1.81	0.81
1:P:252:ALA:O	1:P:254:ASN:N	2.13	0.81
1:P:457:ASP:OD1	1:P:587:ARG:HB2	1.80	0.81
1:P:507:ALA:O	1:P:608:ASN:HB2	1.80	0.81
1:E:507:ALA:O	1:E:608:ASN:HB2	1.80	0.80
1:G:457:ASP:OD1	1:G:587:ARG:HB2	1.80	0.80
1:G:507:ALA:O	1:G:608:ASN:HB2	1.80	0.80
1:J:604:ASN:HD22	1:J:929:VAL:H	1.28	0.80
1:L:507:ALA:O	1:L:608:ASN:HB2	1.80	0.80
1:M:508:TRP:CA	1:M:606:GLY:CA	2.48	0.80
1:P:548:LYS:HZ2	1:P:601:GLN:HA	1.46	0.80
1:B:508:TRP:CA	1:B:606:GLY:CA	2.48	0.80
1:F:492:LEU:HD23	1:F:562:LEU:HD23	1.62	0.80
1:C:402:VAL:O	1:C:406:HIS:N	2.14	0.80
1:E:312:LEU:HD23	1:E:313:PRO:HD2	1.62	0.80
1:A:604:ASN:HD22	1:A:929:VAL:H	1.28	0.80
1:N:604:ASN:HD22	1:N:929:VAL:H	1.28	0.80
1:B:604:ASN:HD22	1:B:929:VAL:H	1.28	0.80
1:F:545:PHE:O	1:F:549:ILE:N	2.13	0.80
1:I:354:GLU:OE1	1:I:430:LYS:HE3	1.81	0.80
1:I:492:LEU:HD23	1:I:562:LEU:HD23	1.62	0.80
1:I:915:TYR:O	1:I:916:LYS:HB2	1.82	0.80
1:K:313:PRO:HG3	1:K:338:TRP:CE2	2.17	0.80
1:L:402:VAL:O	1:L:406:HIS:N	2.14	0.80
1:B:425:ILE:O	1:B:429:LEU:N	2.15	0.80
1:C:507:ALA:O	1:C:608:ASN:HB2	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:915:TYR:O	1:C:916:LYS:HB2	1.82	0.80
1:D:313:PRO:HG3	1:D:338:TRP:CE2	2.17	0.80
1:F:915:TYR:O	1:F:916:LYS:HB2	1.82	0.80
1:I:373:SER:HB3	1:I:433:LEU:CD1	2.12	0.80
1:M:425:ILE:O	1:M:429:LEU:N	2.15	0.80
1:D:312:LEU:HD23	1:D:313:PRO:HD2	1.62	0.80
1:E:915:TYR:O	1:E:916:LYS:HB2	1.82	0.80
1:F:373:SER:HB3	1:F:433:LEU:CD1	2.12	0.80
1:J:313:PRO:HG3	1:J:338:TRP:CE2	2.17	0.80
1:K:212:ASP:OD2	1:L:209:SER:OG	1.98	0.80
1:K:312:LEU:HD23	1:K:313:PRO:HD2	1.62	0.80
1:F:440:HIS:O	1:F:444:VAL:N	2.14	0.80
1:G:312:LEU:HD23	1:G:313:PRO:HD2	1.62	0.80
1:I:440:HIS:O	1:I:444:VAL:N	2.14	0.80
1:J:915:TYR:O	1:J:916:LYS:HB2	1.82	0.80
1:L:313:PRO:HG3	1:L:338:TRP:CE2	2.17	0.80
1:L:915:TYR:O	1:L:916:LYS:HB2	1.82	0.80
1:A:545:PHE:O	1:A:549:ILE:N	2.13	0.80
1:C:313:PRO:HG3	1:C:338:TRP:CE2	2.17	0.80
1:D:915:TYR:O	1:D:916:LYS:HB2	1.82	0.80
1:E:313:PRO:HG3	1:E:338:TRP:CE2	2.17	0.80
1:E:373:SER:HB3	1:E:433:LEU:CD1	2.12	0.80
1:E:508:TRP:HE3	1:E:927:GLN:O	1.65	0.80
1:F:209:SER:OG	1:G:212:ASP:OD2	1.98	0.80
1:F:312:LEU:HD23	1:F:313:PRO:HD2	1.62	0.80
1:F:354:GLU:OE1	1:F:430:LYS:HE3	1.81	0.80
1:G:354:GLU:OE1	1:G:430:LYS:HE3	1.81	0.80
1:G:373:SER:HB3	1:G:433:LEU:CD1	2.12	0.80
1:J:508:TRP:HE3	1:J:927:GLN:O	1.65	0.80
1:K:915:TYR:O	1:K:916:LYS:HB2	1.82	0.80
1:M:604:ASN:HD22	1:M:929:VAL:H	1.28	0.80
1:P:312:LEU:HD23	1:P:313:PRO:HD2	1.62	0.80
1:P:354:GLU:OE1	1:P:430:LYS:HE3	1.81	0.80
1:P:373:SER:HB3	1:P:433:LEU:CD1	2.12	0.80
1:I:545:PHE:O	1:I:549:ILE:N	2.13	0.80
1:J:373:SER:HB3	1:J:433:LEU:CD1	2.12	0.80
1:A:492:LEU:HD23	1:A:562:LEU:HD23	1.62	0.79
1:D:354:GLU:OE1	1:D:430:LYS:HE3	1.81	0.79
1:F:507:ALA:O	1:F:608:ASN:HB2	1.80	0.79
1:G:915:TYR:O	1:G:916:LYS:HB2	1.82	0.79
1:I:507:ALA:O	1:I:608:ASN:HB2	1.80	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:622:LEU:CB	1:J:634:ASP:HB2	2.09	0.79
1:K:354:GLU:OE1	1:K:430:LYS:HE3	1.81	0.79
1:N:545:PHE:O	1:N:549:ILE:N	2.13	0.79
1:O:314:ARG:O	1:O:315:GLU:CB	2.30	0.79
1:B:915:TYR:O	1:B:916:LYS:HB2	1.82	0.79
1:H:314:ARG:O	1:H:315:GLU:CB	2.30	0.79
1:N:492:LEU:HD23	1:N:562:LEU:HD23	1.62	0.79
1:O:373:SER:HB3	1:O:433:LEU:CD1	2.12	0.79
1:P:314:ARG:O	1:P:315:GLU:CB	2.30	0.79
1:P:915:TYR:O	1:P:916:LYS:HB2	1.82	0.79
1:B:402:VAL:O	1:B:406:HIS:N	2.14	0.79
1:D:373:SER:HB3	1:D:433:LEU:CD1	2.12	0.79
1:D:492:LEU:HD23	1:D:562:LEU:HD23	1.62	0.79
1:G:314:ARG:O	1:G:315:GLU:CB	2.30	0.79
1:I:312:LEU:HD23	1:I:313:PRO:HD2	1.62	0.79
1:K:492:LEU:HD23	1:K:562:LEU:HD23	1.62	0.79
1:M:402:VAL:O	1:M:406:HIS:N	2.14	0.79
1:M:915:TYR:O	1:M:916:LYS:HB2	1.82	0.79
1:A:403:ASN:ND2	1:H:333:ASP:OD2	2.14	0.79
1:C:314:ARG:O	1:C:315:GLU:CB	2.30	0.79
1:E:622:LEU:CB	1:E:634:ASP:HB2	2.09	0.79
1:F:313:PRO:HG3	1:F:338:TRP:CE2	2.17	0.79
1:I:313:PRO:HG3	1:I:338:TRP:CE2	2.17	0.79
1:K:314:ARG:O	1:K:315:GLU:CB	2.30	0.79
1:K:604:ASN:HD22	1:K:929:VAL:H	1.28	0.79
1:L:314:ARG:O	1:L:315:GLU:CB	2.30	0.79
1:P:443:ILE:HG21	1:P:477:ASN:HD22	1.48	0.79
1:B:313:PRO:HG3	1:B:338:TRP:CE2	2.17	0.79
1:B:373:SER:HB3	1:B:433:LEU:CD1	2.12	0.79
1:D:314:ARG:O	1:D:315:GLU:CB	2.30	0.79
1:G:443:ILE:HG21	1:G:477:ASN:HD22	1.48	0.79
1:G:548:LYS:HZ2	1:G:601:GLN:CA	1.95	0.79
1:H:373:SER:HB3	1:H:433:LEU:CD1	2.12	0.79
1:H:443:ILE:HG21	1:H:477:ASN:HD22	1.48	0.79
1:M:313:PRO:HG3	1:M:338:TRP:CE2	2.17	0.79
1:M:373:SER:HB3	1:M:433:LEU:CD1	2.12	0.79
1:M:442:SER:O	1:M:446:HIS:HD2	1.57	0.79
1:N:373:SER:HB3	1:N:433:LEU:CD1	2.12	0.79
1:O:443:ILE:HG21	1:O:477:ASN:HD22	1.48	0.79
1:G:389:ILE:HD13	1:G:446:HIS:HE2	1.42	0.79
1:A:314:ARG:O	1:A:315:GLU:CB	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:373:SER:HB3	1:A:433:LEU:CD1	2.12	0.79
1:A:443:ILE:HG21	1:A:477:ASN:HD22	1.48	0.79
1:E:508:TRP:CA	1:E:606:GLY:CA	2.48	0.79
1:H:354:GLU:OE1	1:H:430:LYS:HE3	1.81	0.79
1:H:508:TRP:HE3	1:H:927:GLN:O	1.65	0.79
1:K:373:SER:HB3	1:K:433:LEU:CD1	2.12	0.79
1:K:440:HIS:O	1:K:444:VAL:N	2.14	0.79
1:L:373:SER:HB3	1:L:433:LEU:CD1	2.12	0.79
1:N:314:ARG:O	1:N:315:GLU:CB	2.30	0.79
1:N:402:VAL:O	1:N:406:HIS:N	2.14	0.79
1:N:443:ILE:HG21	1:N:477:ASN:HD22	1.48	0.79
1:D:440:HIS:O	1:D:444:VAL:N	2.14	0.79
1:G:604:ASN:HD22	1:G:929:VAL:H	1.28	0.79
1:H:313:PRO:HG3	1:H:338:TRP:CE2	2.17	0.79
1:I:314:ARG:O	1:I:315:GLU:CB	2.30	0.79
1:L:312:LEU:HD23	1:L:313:PRO:HD2	1.61	0.79
1:M:354:GLU:OE1	1:M:430:LYS:HE3	1.81	0.79
1:O:354:GLU:OE1	1:O:430:LYS:HE3	1.81	0.79
1:P:313:PRO:HG3	1:P:338:TRP:CE2	2.17	0.79
1:P:548:LYS:HZ2	1:P:601:GLN:CA	1.96	0.79
1:P:604:ASN:HD22	1:P:929:VAL:H	1.28	0.79
1:A:313:PRO:HG3	1:A:338:TRP:CE2	2.17	0.79
1:B:354:GLU:OE1	1:B:430:LYS:HE3	1.82	0.79
1:C:312:LEU:HD23	1:C:313:PRO:HD2	1.62	0.79
1:D:425:ILE:O	1:D:429:LEU:N	2.15	0.79
1:D:604:ASN:HD22	1:D:929:VAL:H	1.28	0.79
1:G:545:PHE:O	1:G:549:ILE:N	2.13	0.79
1:H:425:ILE:O	1:H:429:LEU:N	2.15	0.79
1:I:508:TRP:HE3	1:I:927:GLN:O	1.65	0.79
1:J:508:TRP:CA	1:J:606:GLY:CA	2.48	0.79
1:K:20:GLU:O	1:K:24:VAL:N	2.16	0.79
1:K:425:ILE:O	1:K:429:LEU:N	2.15	0.79
1:L:354:GLU:OE1	1:L:430:LYS:HE3	1.81	0.79
1:L:492:LEU:HD23	1:L:562:LEU:HD23	1.62	0.79
1:L:545:PHE:O	1:L:549:ILE:N	2.13	0.79
1:M:492:LEU:HD23	1:M:562:LEU:HD23	1.62	0.79
1:O:425:ILE:O	1:O:429:LEU:N	2.15	0.79
1:O:403:ASN:ND2	1:P:333:ASP:OD2	2.16	0.79
1:P:440:HIS:O	1:P:444:VAL:N	2.14	0.79
1:A:354:GLU:OE1	1:A:430:LYS:HE3	1.81	0.79
1:C:373:SER:HB3	1:C:433:LEU:CD1	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:425:ILE:O	1:E:429:LEU:N	2.15	0.79
1:F:314:ARG:O	1:F:315:GLU:CB	2.30	0.79
1:G:313:PRO:HG3	1:G:338:TRP:CE2	2.17	0.79
1:G:440:HIS:O	1:G:444:VAL:N	2.14	0.79
1:H:604:ASN:HD22	1:H:929:VAL:H	1.28	0.79
1:M:440:HIS:O	1:M:444:VAL:N	2.14	0.79
1:N:313:PRO:HG3	1:N:338:TRP:CE2	2.17	0.79
1:N:354:GLU:OE1	1:N:430:LYS:HE3	1.81	0.79
1:P:402:VAL:O	1:P:406:HIS:N	2.14	0.79
1:P:545:PHE:O	1:P:549:ILE:N	2.13	0.79
1:A:402:VAL:O	1:A:406:HIS:N	2.14	0.78
1:B:492:LEU:HD23	1:B:562:LEU:HD23	1.62	0.78
1:C:545:PHE:O	1:C:549:ILE:N	2.13	0.78
1:D:20:GLU:O	1:D:24:VAL:N	2.16	0.78
1:G:402:VAL:O	1:G:406:HIS:N	2.14	0.78
1:J:425:ILE:O	1:J:429:LEU:N	2.15	0.78
1:M:548:LYS:HZ2	1:M:601:GLN:HA	1.48	0.78
1:O:508:TRP:HE3	1:O:927:GLN:O	1.66	0.78
1:C:492:LEU:HD23	1:C:562:LEU:HD23	1.62	0.78
1:H:20:GLU:O	1:H:24:VAL:N	2.16	0.78
1:O:20:GLU:O	1:O:24:VAL:N	2.16	0.78
1:O:313:PRO:HG3	1:O:338:TRP:CE2	2.17	0.78
1:O:604:ASN:HD22	1:O:929:VAL:H	1.28	0.78
1:P:389:ILE:HD13	1:P:446:HIS:HE2	1.42	0.78
1:B:440:HIS:O	1:B:444:VAL:N	2.14	0.78
1:C:354:GLU:OE1	1:C:430:LYS:HE3	1.82	0.78
1:G:20:GLU:O	1:G:24:VAL:N	2.16	0.78
1:P:20:GLU:O	1:P:24:VAL:N	2.16	0.78
1:N:508:TRP:HE3	1:N:927:GLN:O	1.65	0.78
1:D:508:TRP:HE3	1:D:927:GLN:O	1.65	0.78
1:I:425:ILE:O	1:I:429:LEU:N	2.15	0.78
1:K:508:TRP:HE3	1:K:927:GLN:O	1.65	0.78
1:M:403:ASN:ND2	1:N:333:ASP:OD2	2.17	0.78
1:O:915:TYR:O	1:O:916:LYS:HB2	1.82	0.78
1:A:508:TRP:HE3	1:A:927:GLN:O	1.65	0.78
1:B:443:ILE:HG21	1:B:477:ASN:HD22	1.48	0.78
1:F:443:ILE:HG21	1:F:477:ASN:HD22	1.48	0.78
1:F:508:TRP:HE3	1:F:927:GLN:O	1.65	0.78
1:H:915:TYR:O	1:H:916:LYS:HB2	1.82	0.78
1:K:402:VAL:O	1:K:406:HIS:N	2.14	0.78
1:M:443:ILE:HG21	1:M:477:ASN:HD22	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:425:ILE:O	1:F:429:LEU:N	2.15	0.78
1:G:157:LYS:NZ	2:G:1501:DTP:O3B	2.17	0.78
1:H:157:LYS:NZ	2:H:1501:DTP:O3B	2.17	0.78
1:O:157:LYS:NZ	2:O:1501:DTP:O3B	2.17	0.78
1:P:157:LYS:NZ	2:P:1501:DTP:O3B	2.17	0.78
1:D:402:VAL:O	1:D:406:HIS:N	2.14	0.78
1:I:604:ASN:HD22	1:I:929:VAL:H	1.28	0.78
1:N:425:ILE:O	1:N:429:LEU:N	2.15	0.78
1:B:187:ASN:HA	1:B:249:ASN:HD21	1.49	0.78
1:B:458:LEU:HD23	1:B:459:ILE:H	1.49	0.78
1:H:373:SER:OG	1:H:433:LEU:HD12	1.84	0.78
1:I:443:ILE:HG21	1:I:477:ASN:HD22	1.48	0.78
1:L:20:GLU:O	1:L:24:VAL:N	2.16	0.78
1:M:314:ARG:O	1:M:315:GLU:CB	2.30	0.78
1:M:458:LEU:HD23	1:M:459:ILE:H	1.49	0.78
1:O:373:SER:OG	1:O:433:LEU:HD12	1.84	0.78
1:P:425:ILE:O	1:P:429:LEU:N	2.15	0.78
1:A:425:ILE:O	1:A:429:LEU:N	2.15	0.78
1:B:314:ARG:O	1:B:315:GLU:CB	2.30	0.78
1:G:425:ILE:O	1:G:429:LEU:N	2.15	0.78
1:M:187:ASN:HA	1:M:249:ASN:HD21	1.49	0.78
1:B:301:LEU:HD21	1:B:313:PRO:CG	2.14	0.77
1:C:187:ASN:HA	1:C:249:ASN:HD21	1.50	0.77
1:C:333:ASP:OD2	1:D:403:ASN:ND2	2.17	0.77
1:F:20:GLU:O	1:F:24:VAL:N	2.16	0.77
1:M:301:LEU:HD21	1:M:313:PRO:CG	2.14	0.77
1:N:915:TYR:O	1:N:916:LYS:HB2	1.82	0.77
1:A:301:LEU:HD21	1:A:313:PRO:CG	2.14	0.77
1:C:20:GLU:O	1:C:24:VAL:N	2.16	0.77
1:C:458:LEU:HD23	1:C:459:ILE:H	1.49	0.77
1:E:545:PHE:O	1:E:549:ILE:N	2.13	0.77
1:F:604:ASN:HD22	1:F:929:VAL:H	1.28	0.77
1:L:187:ASN:HA	1:L:249:ASN:HD21	1.49	0.77
1:N:157:LYS:NZ	2:N:1501:DTP:O3B	2.17	0.77
1:N:20:GLU:O	1:N:24:VAL:N	2.16	0.77
1:N:301:LEU:HD21	1:N:313:PRO:CG	2.14	0.77
1:A:157:LYS:NZ	2:A:1501:DTP:O3B	2.17	0.77
1:A:915:TYR:O	1:A:916:LYS:HB2	1.82	0.77
1:E:314:ARG:O	1:E:315:GLU:CB	2.30	0.77
1:H:545:PHE:O	1:H:549:ILE:N	2.13	0.77
1:J:314:ARG:O	1:J:315:GLU:CB	2.30	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:458:LEU:HD23	1:L:459:ILE:H	1.49	0.77
1:L:508:TRP:CA	1:L:606:GLY:CA	2.48	0.77
1:M:548:LYS:HZ2	1:M:601:GLN:CA	1.97	0.77
1:A:20:GLU:O	1:A:24:VAL:N	2.16	0.77
1:A:458:LEU:HD23	1:A:459:ILE:H	1.49	0.77
1:C:313:PRO:CG	1:C:338:TRP:CZ2	2.68	0.77
1:E:443:ILE:HG21	1:E:477:ASN:HD22	1.48	0.77
1:F:122:LYS:HG3	1:G:276:SER:CB	2.15	0.77
1:G:373:SER:OG	1:G:433:LEU:HD12	1.84	0.77
1:J:915:TYR:CZ	1:J:916:LYS:HE3	2.20	0.77
1:O:545:PHE:O	1:O:549:ILE:N	2.13	0.77
1:P:373:SER:OG	1:P:433:LEU:HD12	1.84	0.77
1:B:548:LYS:HZ2	1:B:601:GLN:HA	1.49	0.77
1:D:508:TRP:CE3	1:D:927:GLN:C	2.58	0.77
1:F:157:LYS:NZ	2:F:1501:DTP:O3B	2.17	0.77
1:F:458:LEU:HD23	1:F:459:ILE:H	1.49	0.77
1:H:313:PRO:CG	1:H:338:TRP:CZ2	2.67	0.77
1:I:20:GLU:O	1:I:24:VAL:N	2.16	0.77
1:J:545:PHE:O	1:J:549:ILE:N	2.13	0.77
1:M:313:PRO:CG	1:M:338:TRP:CZ2	2.67	0.77
1:A:313:PRO:CG	1:A:338:TRP:CZ2	2.68	0.77
1:B:313:PRO:CG	1:B:338:TRP:CZ2	2.68	0.77
1:C:508:TRP:CE3	1:C:927:GLN:C	2.58	0.77
1:E:187:ASN:HA	1:E:249:ASN:HD21	1.49	0.77
1:E:915:TYR:CZ	1:E:916:LYS:HE3	2.20	0.77
1:F:548:LYS:HZ2	1:F:601:GLN:HA	1.48	0.77
1:G:458:LEU:HD23	1:G:459:ILE:H	1.49	0.77
1:I:458:LEU:HD23	1:I:459:ILE:H	1.49	0.77
1:L:313:PRO:CG	1:L:338:TRP:CZ2	2.68	0.77
1:L:915:TYR:CZ	1:L:916:LYS:HE3	2.20	0.77
1:N:187:ASN:HA	1:N:249:ASN:HD21	1.49	0.77
1:N:313:PRO:CG	1:N:338:TRP:CZ2	2.67	0.77
1:N:373:SER:OG	1:N:433:LEU:HD12	1.84	0.77
1:N:458:LEU:HD23	1:N:459:ILE:H	1.50	0.77
1:O:313:PRO:CG	1:O:338:TRP:CZ2	2.68	0.77
1:P:313:PRO:CG	1:P:338:TRP:CZ2	2.67	0.77
1:A:187:ASN:HA	1:A:249:ASN:HD21	1.49	0.77
1:A:373:SER:OG	1:A:433:LEU:HD12	1.84	0.77
1:B:508:TRP:CE3	1:B:927:GLN:C	2.58	0.77
1:C:508:TRP:CA	1:C:606:GLY:CA	2.48	0.77
1:C:915:TYR:CZ	1:C:916:LYS:HE3	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:915:TYR:CZ	1:D:916:LYS:HE3	2.20	0.77
1:F:402:VAL:O	1:F:406:HIS:N	2.14	0.77
1:F:548:LYS:HZ2	1:F:601:GLN:CA	1.97	0.77
1:G:313:PRO:CG	1:G:338:TRP:CZ2	2.68	0.77
1:I:157:LYS:NZ	2:I:1501:DTP:O3B	2.17	0.77
1:J:187:ASN:HA	1:J:249:ASN:HD21	1.49	0.77
1:K:915:TYR:CZ	1:K:916:LYS:HE3	2.20	0.77
1:M:508:TRP:CE3	1:M:927:GLN:C	2.58	0.77
1:B:1169:ILE:HD11	1:B:1172:CYS:HB2	1.67	0.77
1:C:157:LYS:NZ	2:C:1501:DTP:O3B	2.17	0.77
1:C:301:LEU:HD21	1:C:313:PRO:CG	2.14	0.77
1:E:313:PRO:CG	1:E:338:TRP:HZ2	1.98	0.77
1:E:440:HIS:O	1:E:444:VAL:N	2.14	0.77
1:F:187:ASN:HA	1:F:249:ASN:HD21	1.49	0.77
1:F:301:LEU:HD21	1:F:313:PRO:CG	2.14	0.77
1:H:458:LEU:HD23	1:H:459:ILE:H	1.49	0.77
1:I:301:LEU:HD21	1:I:313:PRO:CG	2.14	0.77
1:J:313:PRO:CG	1:J:338:TRP:HZ2	1.98	0.77
1:J:440:HIS:O	1:J:444:VAL:N	2.14	0.77
1:J:443:ILE:HG21	1:J:477:ASN:HD22	1.48	0.77
1:K:157:LYS:NZ	2:K:1501:DTP:O3B	2.17	0.77
1:L:157:LYS:NZ	2:L:1501:DTP:O3B	2.17	0.77
1:L:508:TRP:CE3	1:L:927:GLN:C	2.58	0.77
1:O:301:LEU:HD21	1:O:313:PRO:CG	2.14	0.77
1:O:440:HIS:O	1:O:444:VAL:N	2.14	0.77
1:O:458:LEU:HD23	1:O:459:ILE:H	1.49	0.77
1:P:458:LEU:HD23	1:P:459:ILE:H	1.49	0.77
1:P:508:TRP:HE3	1:P:927:GLN:O	1.65	0.77
1:B:633:THR:CG2	1:B:643:TYR:HA	2.15	0.77
1:D:157:LYS:NZ	2:D:1501:DTP:O3B	2.17	0.77
1:D:313:PRO:CG	1:D:338:TRP:CZ2	2.68	0.77
1:G:508:TRP:HE3	1:G:927:GLN:O	1.65	0.77
1:H:301:LEU:HD21	1:H:313:PRO:CG	2.14	0.77
1:I:187:ASN:HA	1:I:249:ASN:HD21	1.49	0.77
1:K:443:ILE:HG21	1:K:477:ASN:HD22	1.48	0.77
1:L:443:ILE:HG21	1:L:477:ASN:HD22	1.48	0.77
1:M:915:TYR:CZ	1:M:916:LYS:HE3	2.20	0.77
1:N:633:THR:CG2	1:N:643:TYR:HA	2.15	0.77
1:A:508:TRP:CE3	1:A:927:GLN:C	2.58	0.77
1:A:633:THR:CG2	1:A:643:TYR:HA	2.15	0.77
1:A:209:SER:OG	1:B:212:ASP:OD2	2.03	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:463:LEU:HB3	1:B:467:PHE:CD2	2.20	0.77
1:C:1169:ILE:HD11	1:C:1172:CYS:HB2	1.67	0.77
1:D:1169:ILE:HD11	1:D:1172:CYS:HB2	1.67	0.77
1:D:443:ILE:HG21	1:D:477:ASN:HD22	1.48	0.77
1:E:157:LYS:NZ	2:E:1501:DTP:O3B	2.17	0.77
1:F:633:THR:CG2	1:F:643:TYR:HA	2.15	0.77
1:G:508:TRP:CE3	1:G:927:GLN:C	2.58	0.77
1:I:548:LYS:HZ2	1:I:601:GLN:CA	1.97	0.77
1:J:157:LYS:NZ	2:J:1501:DTP:O3B	2.17	0.77
1:I:403:ASN:ND2	1:J:333:ASP:OD2	2.17	0.77
1:J:402:VAL:O	1:J:406:HIS:N	2.14	0.77
1:K:1169:ILE:HD11	1:K:1172:CYS:HB2	1.67	0.77
1:K:313:PRO:CG	1:K:338:TRP:CZ2	2.68	0.77
1:K:313:PRO:CG	1:K:338:TRP:HZ2	1.98	0.77
1:K:633:THR:CG2	1:K:643:TYR:HA	2.15	0.77
1:M:1169:ILE:HD11	1:M:1172:CYS:HB2	1.67	0.77
1:B:915:TYR:CZ	1:B:916:LYS:HE3	2.20	0.76
1:D:313:PRO:CG	1:D:338:TRP:HZ2	1.98	0.76
1:D:633:THR:CG2	1:D:643:TYR:HA	2.15	0.76
1:G:127:ARG:HE	1:G:130:PRO:HG3	1.51	0.76
1:G:301:LEU:HD21	1:G:313:PRO:CG	2.14	0.76
1:G:633:THR:CG2	1:G:643:TYR:HA	2.15	0.76
1:I:548:LYS:HZ2	1:I:601:GLN:HA	1.48	0.76
1:I:633:THR:CG2	1:I:643:TYR:HA	2.15	0.76
1:L:1169:ILE:HD11	1:L:1172:CYS:HB2	1.67	0.76
1:M:463:LEU:HB3	1:M:467:PHE:CD2	2.20	0.76
1:M:633:THR:CG2	1:M:643:TYR:HA	2.15	0.76
1:N:508:TRP:CE3	1:N:927:GLN:C	2.58	0.76
1:P:313:PRO:CG	1:P:338:TRP:HZ2	1.98	0.76
1:P:633:THR:CG2	1:P:643:TYR:HA	2.15	0.76
1:A:1169:ILE:HD11	1:A:1172:CYS:HB2	1.67	0.76
1:C:633:THR:CG2	1:C:643:TYR:HA	2.15	0.76
1:D:508:TRP:CA	1:D:606:GLY:CA	2.48	0.76
1:E:301:LEU:HD21	1:E:313:PRO:CG	2.14	0.76
1:E:402:VAL:O	1:E:406:HIS:N	2.14	0.76
1:F:915:TYR:CZ	1:F:916:LYS:HE3	2.20	0.76
1:G:463:LEU:HB3	1:G:467:PHE:CD2	2.20	0.76
1:G:915:TYR:CZ	1:G:916:LYS:HE3	2.20	0.76
1:H:127:ARG:HE	1:H:130:PRO:HG3	1.51	0.76
1:H:440:HIS:O	1:H:444:VAL:N	2.14	0.76
1:H:633:THR:CG2	1:H:643:TYR:HA	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:560:ASP:HA	1:J:592:ASN:HD21	1.50	0.76
1:L:301:LEU:HD21	1:L:313:PRO:CG	2.14	0.76
1:L:633:THR:CG2	1:L:643:TYR:HA	2.15	0.76
1:P:301:LEU:HD21	1:P:313:PRO:CG	2.14	0.76
1:P:463:LEU:HB3	1:P:467:PHE:CD2	2.20	0.76
1:B:157:LYS:NZ	2:B:1501:DTP:O3B	2.17	0.76
1:B:313:PRO:CG	1:B:338:TRP:HZ2	1.98	0.76
1:B:548:LYS:HZ2	1:B:601:GLN:CA	1.98	0.76
1:C:443:ILE:HG21	1:C:477:ASN:HD22	1.48	0.76
1:D:127:ARG:HE	1:D:130:PRO:HG3	1.51	0.76
1:E:458:LEU:HD23	1:E:459:ILE:H	1.49	0.76
1:E:560:ASP:HA	1:E:592:ASN:HD21	1.50	0.76
1:H:915:TYR:CZ	1:H:916:LYS:HE3	2.20	0.76
1:J:548:LYS:HZ2	1:J:601:GLN:HA	1.51	0.76
1:L:463:LEU:HB3	1:L:467:PHE:CD2	2.20	0.76
1:M:313:PRO:CG	1:M:338:TRP:HZ2	1.98	0.76
1:N:1169:ILE:HD11	1:N:1172:CYS:HB2	1.67	0.76
1:N:127:ARG:HE	1:N:130:PRO:HG3	1.51	0.76
1:O:127:ARG:HE	1:O:130:PRO:HG3	1.51	0.76
1:O:633:THR:CG2	1:O:643:TYR:HA	2.15	0.76
1:O:915:TYR:CZ	1:O:916:LYS:HE3	2.20	0.76
1:P:187:ASN:HA	1:P:249:ASN:HD21	1.49	0.76
1:P:508:TRP:CA	1:P:606:GLY:CA	2.48	0.76
1:P:915:TYR:CZ	1:P:916:LYS:HE3	2.20	0.76
1:A:127:ARG:HE	1:A:130:PRO:HG3	1.51	0.76
1:A:915:TYR:CZ	1:A:916:LYS:HE3	2.20	0.76
1:C:425:ILE:O	1:C:429:LEU:N	2.15	0.76
1:C:463:LEU:HB3	1:C:467:PHE:CD2	2.20	0.76
1:D:301:LEU:HD21	1:D:313:PRO:CG	2.14	0.76
1:E:548:LYS:HZ2	1:E:601:GLN:HA	1.51	0.76
1:G:313:PRO:CG	1:G:338:TRP:HZ2	1.98	0.76
1:G:508:TRP:CA	1:G:606:GLY:CA	2.48	0.76
1:H:313:PRO:CG	1:H:338:TRP:HZ2	1.98	0.76
1:J:301:LEU:HD21	1:J:313:PRO:CG	2.14	0.76
1:K:301:LEU:HD21	1:K:313:PRO:CG	2.14	0.76
1:K:508:TRP:CE3	1:K:927:GLN:C	2.58	0.76
1:M:157:LYS:NZ	2:M:1501:DTP:O3B	2.17	0.76
1:M:508:TRP:HE3	1:M:927:GLN:O	1.65	0.76
1:N:915:TYR:CZ	1:N:916:LYS:HE3	2.20	0.76
1:N:403:ASN:ND2	1:O:333:ASP:OD2	2.18	0.76
1:O:313:PRO:CG	1:O:338:TRP:HZ2	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:518:LEU:HD12	1:O:518:LEU:H	1.51	0.76
1:P:127:ARG:HE	1:P:130:PRO:HG3	1.51	0.76
1:A:463:LEU:HB3	1:A:467:PHE:CD2	2.20	0.76
1:C:373:SER:OG	1:C:433:LEU:HD12	1.84	0.76
1:C:560:ASP:HA	1:C:592:ASN:HD21	1.50	0.76
1:E:1169:ILE:HD11	1:E:1172:CYS:HB2	1.67	0.76
1:E:313:PRO:CG	1:E:338:TRP:CZ2	2.68	0.76
1:F:313:PRO:CG	1:F:338:TRP:CZ2	2.67	0.76
1:F:373:SER:OG	1:F:433:LEU:HD12	1.84	0.76
1:G:187:ASN:HA	1:G:249:ASN:HD21	1.49	0.76
1:F:122:LYS:HG3	1:G:276:SER:HB2	1.66	0.76
1:H:187:ASN:HA	1:H:249:ASN:HD21	1.49	0.76
1:H:518:LEU:H	1:H:518:LEU:HD12	1.51	0.76
1:I:915:TYR:CZ	1:I:916:LYS:HE3	2.20	0.76
1:J:1169:ILE:HD11	1:J:1172:CYS:HB2	1.67	0.76
1:J:313:PRO:CG	1:J:338:TRP:CZ2	2.68	0.76
1:K:127:ARG:HE	1:K:130:PRO:HG3	1.51	0.76
1:K:508:TRP:CA	1:K:606:GLY:CA	2.48	0.76
1:N:463:LEU:HB3	1:N:467:PHE:CD2	2.20	0.76
1:O:187:ASN:HA	1:O:249:ASN:HD21	1.49	0.76
1:B:508:TRP:HE3	1:B:927:GLN:O	1.65	0.76
1:D:187:ASN:HA	1:D:249:ASN:HD21	1.49	0.76
1:F:508:TRP:CE3	1:F:927:GLN:C	2.58	0.76
1:I:463:LEU:HB3	1:I:467:PHE:CD2	2.20	0.76
1:L:127:ARG:HE	1:L:130:PRO:HG3	1.51	0.76
1:P:508:TRP:CE3	1:P:927:GLN:C	2.58	0.76
1:B:560:ASP:HA	1:B:592:ASN:HD21	1.50	0.76
1:C:127:ARG:HE	1:C:130:PRO:HG3	1.51	0.76
1:E:548:LYS:HZ2	1:E:601:GLN:CA	1.99	0.76
1:F:127:ARG:HE	1:F:130:PRO:HG3	1.51	0.76
1:F:313:PRO:CG	1:F:338:TRP:HZ2	1.98	0.76
1:I:508:TRP:CE3	1:I:927:GLN:C	2.58	0.76
1:J:458:LEU:HD23	1:J:459:ILE:H	1.50	0.76
1:J:548:LYS:HZ2	1:J:601:GLN:CA	1.99	0.76
1:J:633:THR:CG2	1:J:643:TYR:HA	2.15	0.76
1:K:458:LEU:HD23	1:K:459:ILE:H	1.49	0.76
1:K:276:SER:CB	1:L:121:ALA:HB1	2.12	0.76
1:D:458:LEU:HD23	1:D:459:ILE:H	1.50	0.76
1:E:633:THR:CG2	1:E:643:TYR:HA	2.15	0.76
1:G:518:LEU:H	1:G:518:LEU:HD12	1.51	0.76
1:H:560:ASP:HA	1:H:592:ASN:HD21	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:425:ILE:O	1:L:429:LEU:N	2.15	0.76
1:M:560:ASP:HA	1:M:592:ASN:HD21	1.50	0.76
1:P:518:LEU:HD12	1:P:518:LEU:H	1.51	0.76
1:P:560:ASP:HA	1:P:592:ASN:HD21	1.50	0.76
1:A:560:ASP:HA	1:A:592:ASN:HD21	1.50	0.76
1:B:20:GLU:O	1:B:24:VAL:N	2.16	0.76
1:E:373:SER:OG	1:E:433:LEU:HD12	1.84	0.76
1:G:560:ASP:HA	1:G:592:ASN:HD21	1.50	0.76
1:H:508:TRP:CA	1:H:606:GLY:CA	2.48	0.76
1:I:127:ARG:HE	1:I:130:PRO:HG3	1.51	0.76
1:I:313:PRO:CG	1:I:338:TRP:CZ2	2.68	0.76
1:J:373:SER:OG	1:J:433:LEU:HD12	1.84	0.76
1:K:187:ASN:HA	1:K:249:ASN:HD21	1.49	0.76
1:L:373:SER:OG	1:L:433:LEU:HD12	1.84	0.76
1:M:20:GLU:O	1:M:24:VAL:N	2.16	0.76
1:F:463:LEU:HB3	1:F:467:PHE:CD2	2.20	0.76
1:F:545:PHE:HA	1:F:548:LYS:HB2	1.68	0.76
1:K:463:LEU:HB3	1:K:467:PHE:CD2	2.20	0.76
1:L:560:ASP:HA	1:L:592:ASN:HD21	1.50	0.76
1:M:373:SER:OG	1:M:433:LEU:HD12	1.84	0.76
1:P:545:PHE:HA	1:P:548:LYS:HB2	1.68	0.76
1:D:463:LEU:HB3	1:D:467:PHE:CD2	2.20	0.75
1:D:545:PHE:HA	1:D:548:LYS:HB2	1.68	0.75
1:D:560:ASP:HA	1:D:592:ASN:HD21	1.50	0.75
1:E:20:GLU:O	1:E:24:VAL:N	2.16	0.75
1:F:560:ASP:HA	1:F:592:ASN:HD21	1.50	0.75
1:G:333:ASP:OD2	1:H:403:ASN:ND2	2.19	0.75
1:H:1169:ILE:HD11	1:H:1172:CYS:HB2	1.67	0.75
1:H:508:TRP:CE3	1:H:927:GLN:C	2.58	0.75
1:I:373:SER:OG	1:I:433:LEU:HD12	1.84	0.75
1:M:127:ARG:HE	1:M:130:PRO:HG3	1.51	0.75
1:N:146:ASN:HD22	1:N:280:THR:HG22	1.51	0.75
1:N:560:ASP:HA	1:N:592:ASN:HD21	1.50	0.75
1:O:508:TRP:CE3	1:O:927:GLN:C	2.58	0.75
1:O:560:ASP:HA	1:O:592:ASN:HD21	1.50	0.75
1:B:127:ARG:HE	1:B:130:PRO:HG3	1.51	0.75
1:G:545:PHE:HA	1:G:548:LYS:HB2	1.69	0.75
1:I:333:ASP:OD2	1:P:403:ASN:ND2	2.18	0.75
1:I:545:PHE:HA	1:I:548:LYS:HB2	1.68	0.75
1:N:518:LEU:HD12	1:N:518:LEU:H	1.51	0.75
1:A:146:ASN:HD22	1:A:280:THR:HG22	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:373:SER:OG	1:B:433:LEU:HD12	1.84	0.75
1:E:545:PHE:HA	1:E:548:LYS:HB2	1.69	0.75
1:I:560:ASP:HA	1:I:592:ASN:HD21	1.50	0.75
1:J:127:ARG:HE	1:J:130:PRO:HG3	1.51	0.75
1:K:545:PHE:HA	1:K:548:LYS:HB2	1.69	0.75
1:O:1169:ILE:HD11	1:O:1172:CYS:HB2	1.67	0.75
1:O:402:VAL:O	1:O:406:HIS:N	2.14	0.75
1:E:508:TRP:CE3	1:E:927:GLN:C	2.58	0.75
1:I:402:VAL:O	1:I:406:HIS:N	2.14	0.75
1:J:545:PHE:HA	1:J:548:LYS:HB2	1.69	0.75
1:K:373:SER:OG	1:K:433:LEU:HD12	1.84	0.75
1:L:545:PHE:HA	1:L:548:LYS:HB2	1.68	0.75
1:O:146:ASN:HD22	1:O:280:THR:HG22	1.51	0.75
1:O:508:TRP:CA	1:O:606:GLY:CA	2.48	0.75
1:C:548:LYS:NZ	1:C:601:GLN:HA	2.01	0.75
1:H:146:ASN:HD22	1:H:280:THR:HG22	1.51	0.75
1:H:463:LEU:HB3	1:H:467:PHE:CD2	2.20	0.75
1:J:20:GLU:O	1:J:24:VAL:N	2.16	0.75
1:K:560:ASP:HA	1:K:592:ASN:HD21	1.50	0.75
1:N:313:PRO:CG	1:N:338:TRP:HZ2	1.98	0.75
1:O:463:LEU:HB3	1:O:467:PHE:CD2	2.20	0.75
1:A:518:LEU:H	1:A:518:LEU:HD12	1.51	0.75
1:B:146:ASN:HD22	1:B:280:THR:HG22	1.51	0.75
1:D:548:LYS:NZ	1:D:601:GLN:HA	2.01	0.75
1:F:1169:ILE:HD11	1:F:1172:CYS:HB2	1.67	0.75
1:H:402:VAL:O	1:H:406:HIS:N	2.14	0.75
1:H:545:PHE:HA	1:H:548:LYS:HB2	1.69	0.75
1:J:508:TRP:CE3	1:J:927:GLN:C	2.58	0.75
1:M:146:ASN:HD22	1:M:280:THR:HG22	1.51	0.75
1:M:545:PHE:HA	1:M:548:LYS:HB2	1.69	0.75
1:O:545:PHE:HA	1:O:548:LYS:HB2	1.69	0.75
1:A:313:PRO:CG	1:A:338:TRP:HZ2	1.98	0.75
1:B:545:PHE:HA	1:B:548:LYS:HB2	1.69	0.75
1:C:545:PHE:HA	1:C:548:LYS:HB2	1.69	0.75
1:D:373:SER:OG	1:D:433:LEU:HD12	1.84	0.75
1:E:463:LEU:HB3	1:E:467:PHE:CD2	2.20	0.75
1:I:1169:ILE:HD11	1:I:1172:CYS:HB2	1.67	0.75
1:J:463:LEU:HB3	1:J:467:PHE:CD2	2.20	0.75
1:L:508:TRP:HE3	1:L:927:GLN:O	1.65	0.75
1:B:548:LYS:NZ	1:B:601:GLN:HA	2.01	0.75
1:D:505:SER:OG	1:D:513:SER:OG	2.05	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:548:LYS:HA	1:D:602:ILE:O	1.87	0.75
1:E:127:ARG:HE	1:E:130:PRO:HG3	1.51	0.75
1:F:518:LEU:H	1:F:518:LEU:HD12	1.51	0.75
1:K:548:LYS:HA	1:K:602:ILE:O	1.87	0.75
1:K:548:LYS:NZ	1:K:601:GLN:HA	2.01	0.75
1:K:403:ASN:ND2	1:L:333:ASP:OD2	2.20	0.75
1:L:313:PRO:CG	1:L:338:TRP:HZ2	1.98	0.74
1:M:548:LYS:NZ	1:M:601:GLN:HA	2.01	0.74
1:A:545:PHE:HA	1:A:548:LYS:HB2	1.68	0.74
1:E:548:LYS:NZ	1:E:601:GLN:HA	2.01	0.74
1:I:902:ILE:HD13	1:I:930:HIS:HE1	1.52	0.74
1:J:902:ILE:HD13	1:J:930:HIS:HE1	1.53	0.74
1:K:505:SER:OG	1:K:513:SER:OG	2.05	0.74
1:L:548:LYS:NZ	1:L:601:GLN:HA	2.01	0.74
1:O:548:LYS:NZ	1:O:601:GLN:HA	2.01	0.74
1:P:146:ASN:HD22	1:P:280:THR:HG22	1.51	0.74
1:C:313:PRO:CG	1:C:338:TRP:HZ2	1.98	0.74
1:E:119:VAL:HG23	1:E:120:PHE:H	1.53	0.74
1:E:902:ILE:HD13	1:E:930:HIS:HE1	1.53	0.74
1:G:146:ASN:HD22	1:G:280:THR:HG22	1.51	0.74
1:G:492:LEU:HD23	1:G:562:LEU:CD2	2.17	0.74
1:H:548:LYS:NZ	1:H:601:GLN:HA	2.01	0.74
1:J:548:LYS:NZ	1:J:601:GLN:HA	2.01	0.74
1:L:548:LYS:HZ2	1:L:601:GLN:HA	1.52	0.74
1:C:508:TRP:HE3	1:C:927:GLN:O	1.65	0.74
1:C:548:LYS:HZ2	1:C:601:GLN:HA	1.52	0.74
1:F:902:ILE:HD13	1:F:930:HIS:HE1	1.53	0.74
1:J:119:VAL:HG23	1:J:120:PHE:H	1.53	0.74
1:L:146:ASN:HD22	1:L:280:THR:HG22	1.51	0.74
1:N:545:PHE:HA	1:N:548:LYS:HB2	1.68	0.74
1:P:492:LEU:HD23	1:P:562:LEU:CD2	2.17	0.74
1:D:333:ASP:OD2	1:E:403:ASN:ND2	2.21	0.74
1:D:548:LYS:HZ2	1:D:601:GLN:HA	1.52	0.74
1:F:207:TRP:CD1	1:F:227:GLU:OE2	2.41	0.74
1:I:207:TRP:CD1	1:I:227:GLU:OE2	2.41	0.74
1:K:548:LYS:HZ2	1:K:601:GLN:HA	1.52	0.74
1:C:492:LEU:HD23	1:C:562:LEU:CD2	2.17	0.74
1:F:548:LYS:NZ	1:F:601:GLN:HA	2.01	0.74
1:G:1169:ILE:HD11	1:G:1172:CYS:HB2	1.67	0.74
1:G:207:TRP:CD1	1:G:227:GLU:OE2	2.41	0.74
1:I:518:LEU:HD12	1:I:518:LEU:H	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:518:LEU:HD12	1:J:518:LEU:H	1.51	0.74
1:M:548:LYS:HA	1:M:602:ILE:O	1.87	0.74
1:P:1169:ILE:HD11	1:P:1172:CYS:HB2	1.67	0.74
1:B:548:LYS:HA	1:B:602:ILE:O	1.87	0.74
1:D:146:ASN:HD22	1:D:280:THR:HG22	1.51	0.74
1:F:548:LYS:HA	1:F:602:ILE:O	1.87	0.74
1:H:207:TRP:CD1	1:H:227:GLU:OE2	2.41	0.74
1:L:492:LEU:HD23	1:L:562:LEU:CD2	2.17	0.74
1:L:548:LYS:HZ2	1:L:601:GLN:CA	2.00	0.74
1:M:207:TRP:CD1	1:M:227:GLU:OE2	2.41	0.74
1:O:207:TRP:CD1	1:O:227:GLU:OE2	2.41	0.74
1:O:492:LEU:HD23	1:O:562:LEU:CD2	2.17	0.74
1:P:207:TRP:CD1	1:P:227:GLU:OE2	2.41	0.74
1:P:902:ILE:HD13	1:P:930:HIS:HE1	1.53	0.74
1:A:902:ILE:HD13	1:A:930:HIS:HE1	1.52	0.74
1:B:207:TRP:CD1	1:B:227:GLU:OE2	2.41	0.74
1:C:146:ASN:HD22	1:C:280:THR:HG22	1.51	0.74
1:C:548:LYS:HA	1:C:602:ILE:O	1.87	0.74
1:E:517:THR:HG23	1:E:518:LEU:HD12	1.70	0.74
1:G:119:VAL:HG23	1:G:120:PHE:H	1.53	0.74
1:G:902:ILE:HD13	1:G:930:HIS:HE1	1.53	0.74
1:H:492:LEU:HD23	1:H:562:LEU:CD2	2.17	0.74
1:H:517:THR:HG23	1:H:518:LEU:HD12	1.70	0.74
1:I:548:LYS:NZ	1:I:601:GLN:HA	2.01	0.74
1:J:517:THR:HG23	1:J:518:LEU:HD12	1.70	0.74
1:J:548:LYS:HA	1:J:602:ILE:O	1.87	0.74
1:K:146:ASN:HD22	1:K:280:THR:HG22	1.51	0.74
1:M:511:SER:C	1:M:513:SER:H	1.91	0.74
1:M:518:LEU:HD12	1:M:518:LEU:H	1.51	0.74
1:N:902:ILE:HD13	1:N:930:HIS:HE1	1.53	0.74
1:O:517:THR:HG23	1:O:518:LEU:HD12	1.70	0.74
1:O:902:ILE:HD13	1:O:930:HIS:HE1	1.52	0.74
1:B:518:LEU:H	1:B:518:LEU:HD12	1.51	0.74
1:D:902:ILE:HD13	1:D:930:HIS:HE1	1.52	0.74
1:H:119:VAL:HG23	1:H:120:PHE:H	1.52	0.74
1:I:517:THR:HG23	1:I:518:LEU:HD12	1.70	0.74
1:J:207:TRP:CD1	1:J:227:GLU:OE2	2.41	0.74
1:K:902:ILE:HD13	1:K:930:HIS:HE1	1.52	0.74
1:N:517:THR:HG23	1:N:518:LEU:HD12	1.70	0.74
1:P:119:VAL:HG23	1:P:120:PHE:H	1.53	0.74
1:P:511:SER:C	1:P:513:SER:H	1.91	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:THR:HG23	1:A:518:LEU:HD12	1.70	0.74
1:B:511:SER:C	1:B:513:SER:H	1.90	0.74
1:B:492:LEU:HD23	1:B:562:LEU:CD2	2.17	0.74
1:E:207:TRP:CD1	1:E:227:GLU:OE2	2.41	0.74
1:E:518:LEU:H	1:E:518:LEU:HD12	1.51	0.74
1:F:146:ASN:HD22	1:F:280:THR:HG22	1.51	0.74
1:H:902:ILE:HD13	1:H:930:HIS:HE1	1.52	0.74
1:L:511:SER:C	1:L:513:SER:H	1.91	0.74
1:L:39:ILE:HD11	1:L:76:PHE:HB2	1.70	0.74
1:A:119:VAL:HG23	1:A:120:PHE:H	1.52	0.73
1:A:548:LYS:NZ	1:A:601:GLN:HA	2.01	0.73
1:B:119:VAL:HG23	1:B:120:PHE:H	1.53	0.73
1:C:39:ILE:HD11	1:C:76:PHE:HB2	1.70	0.73
1:D:548:LYS:HZ2	1:D:601:GLN:CA	2.00	0.73
1:F:517:THR:HG23	1:F:518:LEU:HD12	1.70	0.73
1:F:39:ILE:HD11	1:F:76:PHE:HB2	1.70	0.73
1:I:548:LYS:HA	1:I:602:ILE:O	1.87	0.73
1:J:39:ILE:HD11	1:J:76:PHE:HB2	1.70	0.73
1:L:119:VAL:HG23	1:L:120:PHE:H	1.53	0.73
1:M:119:VAL:HG23	1:M:120:PHE:H	1.53	0.73
1:M:492:LEU:HD23	1:M:562:LEU:CD2	2.17	0.73
1:M:902:ILE:HD13	1:M:930:HIS:HE1	1.52	0.73
1:N:119:VAL:HG23	1:N:120:PHE:H	1.53	0.73
1:O:119:VAL:HG23	1:O:120:PHE:H	1.53	0.73
1:O:511:SER:C	1:O:513:SER:H	1.91	0.73
1:A:492:LEU:HD23	1:A:562:LEU:CD2	2.17	0.73
1:C:207:TRP:CD1	1:C:227:GLU:OE2	2.41	0.73
1:C:511:SER:C	1:C:513:SER:H	1.91	0.73
1:E:548:LYS:HA	1:E:602:ILE:O	1.87	0.73
1:G:511:SER:C	1:G:513:SER:H	1.91	0.73
1:G:548:LYS:NZ	1:G:601:GLN:HA	2.01	0.73
1:I:39:ILE:HD11	1:I:76:PHE:HB2	1.70	0.73
1:I:511:SER:C	1:I:513:SER:H	1.91	0.73
1:K:518:LEU:H	1:K:518:LEU:HD12	1.51	0.73
1:L:207:TRP:CD1	1:L:227:GLU:OE2	2.41	0.73
1:P:548:LYS:NZ	1:P:601:GLN:HA	2.01	0.73
1:B:902:ILE:HD13	1:B:930:HIS:HE1	1.53	0.73
1:C:548:LYS:HZ2	1:C:601:GLN:CA	2.00	0.73
1:D:517:THR:HG23	1:D:518:LEU:HD12	1.70	0.73
1:D:39:ILE:HD11	1:D:76:PHE:HB2	1.70	0.73
1:I:146:ASN:HD22	1:I:280:THR:HG22	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:207:TRP:CD1	1:K:227:GLU:OE2	2.41	0.73
1:N:492:LEU:HD23	1:N:562:LEU:CD2	2.17	0.73
1:B:545:PHE:O	1:B:549:ILE:N	2.13	0.73
1:C:119:VAL:HG23	1:C:120:PHE:H	1.52	0.73
1:D:207:TRP:CD1	1:D:227:GLU:OE2	2.41	0.73
1:E:492:LEU:HD23	1:E:562:LEU:CD2	2.17	0.73
1:E:39:ILE:HD11	1:E:76:PHE:HB2	1.70	0.73
1:F:119:VAL:HG23	1:F:120:PHE:H	1.52	0.73
1:F:53:ASP:OD1	1:F:54:ALA:N	2.22	0.73
1:G:517:THR:HG23	1:G:518:LEU:HD12	1.70	0.73
1:I:53:ASP:OD1	1:I:54:ALA:N	2.22	0.73
1:I:492:LEU:HD23	1:I:562:LEU:CD2	2.17	0.73
1:K:119:VAL:HG23	1:K:120:PHE:H	1.52	0.73
1:K:517:THR:HG23	1:K:518:LEU:HD12	1.70	0.73
1:K:548:LYS:HZ2	1:K:601:GLN:CA	2.00	0.73
1:L:902:ILE:HD13	1:L:930:HIS:HE1	1.52	0.73
1:N:511:SER:C	1:N:513:SER:H	1.91	0.73
1:N:548:LYS:NZ	1:N:601:GLN:HA	2.01	0.73
1:P:517:THR:HG23	1:P:518:LEU:HD12	1.70	0.73
1:C:902:ILE:HD13	1:C:930:HIS:HE1	1.53	0.73
1:D:492:LEU:HD23	1:D:562:LEU:CD2	2.17	0.73
1:E:53:ASP:OD1	1:E:54:ALA:N	2.22	0.73
1:F:511:SER:C	1:F:513:SER:H	1.91	0.73
1:J:492:LEU:HD23	1:J:562:LEU:CD2	2.17	0.73
1:K:492:LEU:HD23	1:K:562:LEU:CD2	2.17	0.73
1:M:517:THR:HG23	1:M:518:LEU:HD12	1.70	0.73
1:N:207:TRP:CD1	1:N:227:GLU:OE2	2.41	0.73
1:D:518:LEU:H	1:D:518:LEU:HD12	1.51	0.73
1:E:146:ASN:HD22	1:E:280:THR:HG22	1.51	0.73
1:G:383:THR:H	1:G:419:THR:HA	1.54	0.73
1:H:511:SER:C	1:H:513:SER:H	1.91	0.73
1:K:39:ILE:HD11	1:K:76:PHE:HB2	1.70	0.73
1:K:521:LEU:HA	1:K:524:TYR:CD2	2.23	0.73
1:L:548:LYS:HA	1:L:602:ILE:O	1.87	0.73
1:P:383:THR:H	1:P:419:THR:HA	1.54	0.73
1:A:207:TRP:CD1	1:A:227:GLU:OE2	2.41	0.73
1:A:511:SER:C	1:A:513:SER:H	1.90	0.73
1:B:517:THR:HG23	1:B:518:LEU:HD12	1.70	0.73
1:C:517:THR:HG23	1:C:518:LEU:HD12	1.70	0.73
1:C:518:LEU:HD12	1:C:518:LEU:H	1.51	0.73
1:D:119:VAL:HG23	1:D:120:PHE:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:492:LEU:HD23	1:F:562:LEU:CD2	2.17	0.73
1:H:548:LYS:HA	1:H:602:ILE:O	1.87	0.73
1:J:53:ASP:OD1	1:J:54:ALA:N	2.22	0.73
1:P:53:ASP:OD1	1:P:54:ALA:N	2.22	0.73
1:D:521:LEU:HA	1:D:524:TYR:CD2	2.23	0.73
1:G:53:ASP:OD1	1:G:54:ALA:N	2.22	0.73
1:J:146:ASN:HD22	1:J:280:THR:HG22	1.51	0.73
1:L:517:THR:HG23	1:L:518:LEU:HD12	1.70	0.73
1:M:545:PHE:O	1:M:549:ILE:N	2.13	0.73
1:N:53:ASP:OD1	1:N:54:ALA:N	2.22	0.73
1:O:548:LYS:HA	1:O:602:ILE:O	1.87	0.73
1:G:39:ILE:HD11	1:G:76:PHE:HB2	1.70	0.73
1:I:119:VAL:HG23	1:I:120:PHE:H	1.53	0.73
1:J:511:SER:C	1:J:513:SER:H	1.91	0.73
1:K:511:SER:C	1:K:513:SER:H	1.91	0.73
1:O:53:ASP:OD1	1:O:54:ALA:N	2.22	0.73
1:P:548:LYS:HA	1:P:602:ILE:O	1.87	0.73
1:P:39:ILE:HD11	1:P:76:PHE:HB2	1.70	0.73
1:A:53:ASP:OD1	1:A:54:ALA:N	2.22	0.73
1:A:548:LYS:HA	1:A:602:ILE:O	1.87	0.73
1:A:14:ASP:OD2	1:B:142:ARG:NH1	2.21	0.73
1:C:521:LEU:HA	1:C:524:TYR:CD2	2.23	0.73
1:D:511:SER:C	1:D:513:SER:H	1.91	0.73
1:H:53:ASP:OD1	1:H:54:ALA:N	2.22	0.73
1:L:518:LEU:HD12	1:L:518:LEU:H	1.51	0.73
1:D:545:PHE:O	1:D:549:ILE:N	2.13	0.72
1:F:14:ASP:CG	1:G:142:ARG:HH12	1.92	0.72
1:G:548:LYS:HA	1:G:602:ILE:O	1.87	0.72
1:K:545:PHE:O	1:K:549:ILE:N	2.13	0.72
1:L:403:ASN:ND2	1:M:333:ASP:OD2	2.21	0.72
1:B:383:THR:H	1:B:419:THR:HA	1.54	0.72
1:D:53:ASP:OD1	1:D:54:ALA:N	2.22	0.72
1:H:502:ARG:NH2	1:H:519:GLN:OE1	2.22	0.72
1:L:521:LEU:HA	1:L:524:TYR:CD2	2.23	0.72
1:N:383:THR:H	1:N:419:THR:HA	1.54	0.72
1:O:502:ARG:NH2	1:O:519:GLN:OE1	2.22	0.72
1:P:521:LEU:HA	1:P:524:TYR:CD2	2.23	0.72
1:A:458:LEU:HG	1:A:587:ARG:NH2	2.05	0.72
1:A:521:LEU:HA	1:A:524:TYR:CD2	2.23	0.72
1:E:511:SER:C	1:E:513:SER:H	1.91	0.72
1:G:521:LEU:HA	1:G:524:TYR:CD2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:39:ILE:HD11	1:H:76:PHE:HB2	1.70	0.72
1:K:53:ASP:OD1	1:K:54:ALA:N	2.22	0.72
1:M:383:THR:H	1:M:419:THR:HA	1.54	0.72
1:N:458:LEU:HG	1:N:587:ARG:NH2	2.05	0.72
1:N:548:LYS:HA	1:N:602:ILE:O	1.87	0.72
1:A:39:ILE:HD11	1:A:76:PHE:HB2	1.70	0.72
1:B:521:LEU:HA	1:B:524:TYR:CD2	2.23	0.72
1:B:39:ILE:HD11	1:B:76:PHE:HB2	1.70	0.72
1:H:521:LEU:HA	1:H:524:TYR:CD2	2.23	0.72
1:I:502:ARG:NH2	1:I:519:GLN:OE1	2.22	0.72
1:J:521:LEU:HA	1:J:524:TYR:CD2	2.23	0.72
1:M:53:ASP:OD1	1:M:54:ALA:N	2.22	0.72
1:M:39:ILE:HD11	1:M:76:PHE:HB2	1.70	0.72
1:N:39:ILE:HD11	1:N:76:PHE:HB2	1.70	0.72
1:A:383:THR:H	1:A:419:THR:HA	1.54	0.72
1:B:53:ASP:OD1	1:B:54:ALA:N	2.22	0.72
1:D:383:THR:H	1:D:419:THR:HA	1.54	0.72
1:E:502:ARG:NH2	1:E:519:GLN:OE1	2.22	0.72
1:F:502:ARG:NH2	1:F:519:GLN:OE1	2.22	0.72
1:F:544:ASP:OD1	1:F:545:PHE:N	2.23	0.72
1:I:544:ASP:OD1	1:I:545:PHE:N	2.23	0.72
1:J:502:ARG:NH2	1:J:519:GLN:OE1	2.22	0.72
1:M:521:LEU:HA	1:M:524:TYR:CD2	2.23	0.72
1:O:521:LEU:HA	1:O:524:TYR:CD2	2.23	0.72
1:E:521:LEU:HA	1:E:524:TYR:CD2	2.23	0.72
1:H:383:THR:H	1:H:419:THR:HA	1.54	0.72
1:N:521:LEU:HA	1:N:524:TYR:CD2	2.23	0.72
1:O:39:ILE:HD11	1:O:76:PHE:HB2	1.70	0.72
1:B:513:SER:HB3	1:B:514:ILE:HD12	1.72	0.72
1:C:458:LEU:HG	1:C:587:ARG:NH2	2.05	0.72
1:C:502:ARG:NH2	1:C:519:GLN:OE1	2.22	0.72
1:C:544:ASP:OD1	1:C:545:PHE:N	2.23	0.72
1:D:544:ASP:OD1	1:D:545:PHE:N	2.23	0.72
1:E:383:THR:H	1:E:419:THR:HA	1.54	0.72
1:F:521:LEU:HA	1:F:524:TYR:CD2	2.23	0.72
1:K:383:THR:H	1:K:419:THR:HA	1.54	0.72
1:K:544:ASP:OD1	1:K:545:PHE:N	2.23	0.72
1:L:544:ASP:OD1	1:L:545:PHE:N	2.23	0.72
1:L:458:LEU:HG	1:L:587:ARG:NH2	2.05	0.72
1:O:383:THR:H	1:O:419:THR:HA	1.54	0.72
1:P:502:ARG:NH2	1:P:519:GLN:OE1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:502:ARG:NH2	1:G:519:GLN:OE1	2.22	0.72
1:J:383:THR:H	1:J:419:THR:HA	1.54	0.72
1:K:502:ARG:NH2	1:K:519:GLN:OE1	2.22	0.72
1:M:513:SER:HB3	1:M:514:ILE:HD12	1.72	0.72
1:N:513:SER:HB3	1:N:514:ILE:HD12	1.72	0.72
1:O:544:ASP:OD1	1:O:545:PHE:N	2.23	0.72
1:C:53:ASP:OD1	1:C:54:ALA:N	2.22	0.72
1:D:502:ARG:NH2	1:D:519:GLN:OE1	2.22	0.72
1:D:121:ALA:CB	1:E:276:SER:HB3	2.08	0.72
1:G:547:PRO:CB	1:G:603:ILE:HG13	2.20	0.72
1:H:544:ASP:OD1	1:H:545:PHE:N	2.23	0.72
1:I:521:LEU:HA	1:I:524:TYR:CD2	2.23	0.72
1:L:502:ARG:NH2	1:L:519:GLN:OE1	2.22	0.72
1:L:53:ASP:OD1	1:L:54:ALA:N	2.22	0.72
1:A:513:SER:HB3	1:A:514:ILE:HD12	1.72	0.71
1:B:544:ASP:OD1	1:B:545:PHE:N	2.23	0.71
1:C:383:THR:H	1:C:419:THR:HA	1.54	0.71
1:D:458:LEU:HG	1:D:587:ARG:NH2	2.05	0.71
1:G:458:LEU:HG	1:G:587:ARG:NH2	2.05	0.71
1:I:121:ALA:HB1	1:P:276:SER:CB	2.12	0.71
1:I:636:SER:O	1:I:637:LEU:C	2.29	0.71
1:J:207:TRP:NE1	1:J:227:GLU:OE1	2.23	0.71
1:P:547:PRO:CB	1:P:603:ILE:HG13	2.20	0.71
1:E:207:TRP:NE1	1:E:227:GLU:OE1	2.23	0.71
1:M:544:ASP:OD1	1:M:545:PHE:N	2.23	0.71
1:P:458:LEU:HG	1:P:587:ARG:NH2	2.05	0.71
1:A:502:ARG:NH2	1:A:519:GLN:OE1	2.22	0.71
1:F:458:LEU:HG	1:F:587:ARG:NH2	2.05	0.71
1:F:636:SER:O	1:F:637:LEU:C	2.29	0.71
1:K:458:LEU:HG	1:K:587:ARG:NH2	2.05	0.71
1:M:502:ARG:NH2	1:M:519:GLN:OE1	2.22	0.71
1:O:458:LEU:HG	1:O:587:ARG:NH2	2.05	0.71
1:B:502:ARG:NH2	1:B:519:GLN:OE1	2.22	0.71
1:L:383:THR:H	1:L:419:THR:HA	1.54	0.71
1:N:547:PRO:CB	1:N:603:ILE:HG13	2.20	0.71
1:D:1149:LEU:H	1:D:1196:ALA:HB2	1.56	0.71
1:F:248:GLN:OE1	1:F:268:PHE:CZ	2.44	0.71
1:H:458:LEU:HG	1:H:587:ARG:NH2	2.05	0.71
1:I:458:LEU:HG	1:I:587:ARG:NH2	2.05	0.71
1:K:1149:LEU:H	1:K:1196:ALA:HB2	1.56	0.71
1:M:458:LEU:HG	1:M:587:ARG:NH2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:502:ARG:NH2	1:N:519:GLN:OE1	2.22	0.71
1:B:458:LEU:HG	1:B:587:ARG:NH2	2.05	0.71
1:G:544:ASP:OD1	1:G:545:PHE:N	2.23	0.71
1:I:248:GLN:OE1	1:I:268:PHE:CZ	2.43	0.71
1:L:207:TRP:HD1	1:L:227:GLU:OE2	1.74	0.71
1:L:284:SER:OG	1:L:286:ASP:OD1	2.09	0.71
1:O:284:SER:OG	1:O:286:ASP:OD1	2.09	0.71
1:C:1149:LEU:H	1:C:1196:ALA:HB2	1.56	0.71
1:C:207:TRP:HD1	1:C:227:GLU:OE2	1.74	0.71
1:D:513:SER:HB3	1:D:514:ILE:HD12	1.72	0.71
1:E:636:SER:O	1:E:637:LEU:C	2.29	0.71
1:G:248:GLN:OE1	1:G:268:PHE:CZ	2.43	0.71
1:H:284:SER:OG	1:H:286:ASP:OD1	2.09	0.71
1:J:636:SER:O	1:J:637:LEU:C	2.29	0.71
1:K:207:TRP:NE1	1:K:227:GLU:OE1	2.23	0.71
1:C:284:SER:OG	1:C:286:ASP:OD1	2.09	0.71
1:D:207:TRP:NE1	1:D:227:GLU:OE1	2.23	0.71
1:E:284:SER:OG	1:E:286:ASP:OD1	2.09	0.71
1:E:121:ALA:CB	1:F:276:SER:HB3	2.05	0.71
1:J:544:ASP:OD1	1:J:545:PHE:N	2.23	0.71
1:L:1149:LEU:H	1:L:1196:ALA:HB2	1.56	0.71
1:M:101:MET:SD	1:M:104:ARG:NH2	2.64	0.71
1:P:248:GLN:OE1	1:P:268:PHE:CZ	2.44	0.71
1:P:463:LEU:HD22	1:P:467:PHE:HE2	1.55	0.71
1:P:544:ASP:OD1	1:P:545:PHE:N	2.23	0.71
1:B:101:MET:SD	1:B:104:ARG:NH2	2.64	0.71
1:E:547:PRO:CB	1:E:603:ILE:HG13	2.20	0.71
1:F:383:THR:H	1:F:419:THR:HA	1.54	0.71
1:G:389:ILE:CD1	1:G:446:HIS:CE1	2.70	0.71
1:H:547:PRO:CB	1:H:603:ILE:HG13	2.20	0.71
1:I:383:THR:H	1:I:419:THR:HA	1.54	0.71
1:J:284:SER:OG	1:J:286:ASP:OD1	2.09	0.71
1:L:207:TRP:NE1	1:L:227:GLU:OE1	2.23	0.71
1:P:1149:LEU:H	1:P:1196:ALA:HB2	1.56	0.71
1:P:389:ILE:CD1	1:P:446:HIS:CE1	2.70	0.71
1:C:207:TRP:NE1	1:C:227:GLU:OE1	2.23	0.71
1:E:544:ASP:OD1	1:E:545:PHE:N	2.23	0.71
1:G:1149:LEU:H	1:G:1196:ALA:HB2	1.56	0.71
1:G:284:SER:OG	1:G:286:ASP:OD1	2.09	0.71
1:G:463:LEU:HD22	1:G:467:PHE:HE2	1.55	0.71
1:H:513:SER:HB3	1:H:514:ILE:HD12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:284:SER:OG	1:I:286:ASP:OD1	2.09	0.71
1:J:101:MET:SD	1:J:104:ARG:NH2	2.64	0.71
1:J:248:GLN:OE1	1:J:268:PHE:CZ	2.43	0.71
1:J:276:SER:HB3	1:K:121:ALA:CB	2.09	0.71
1:J:547:PRO:CB	1:J:603:ILE:HG13	2.20	0.71
1:K:513:SER:HB3	1:K:514:ILE:HD12	1.72	0.71
1:N:544:ASP:OD1	1:N:545:PHE:N	2.23	0.71
1:O:547:PRO:CB	1:O:603:ILE:HG13	2.20	0.71
1:P:284:SER:OG	1:P:286:ASP:OD1	2.09	0.71
1:P:513:SER:HB3	1:P:514:ILE:HD12	1.72	0.71
1:E:101:MET:SD	1:E:104:ARG:NH2	2.64	0.70
1:D:14:ASP:OD2	1:E:142:ARG:NH1	2.24	0.70
1:F:207:TRP:HD1	1:F:227:GLU:OE2	1.74	0.70
1:F:463:LEU:HD22	1:F:467:PHE:HE2	1.55	0.70
1:I:389:ILE:CD1	1:I:446:HIS:CE1	2.70	0.70
1:I:463:LEU:HD22	1:I:467:PHE:HE2	1.55	0.70
1:M:207:TRP:NE1	1:M:227:GLU:OE1	2.23	0.70
1:O:513:SER:HB3	1:O:514:ILE:HD12	1.72	0.70
1:A:544:ASP:OD1	1:A:545:PHE:N	2.23	0.70
1:B:207:TRP:NE1	1:B:227:GLU:OE1	2.23	0.70
1:D:248:GLN:OE1	1:D:268:PHE:CZ	2.43	0.70
1:E:1149:LEU:H	1:E:1196:ALA:HB2	1.56	0.70
1:E:248:GLN:OE1	1:E:268:PHE:CZ	2.44	0.70
1:F:284:SER:OG	1:F:286:ASP:OD1	2.09	0.70
1:G:101:MET:SD	1:G:104:ARG:NH2	2.64	0.70
1:G:513:SER:HB3	1:G:514:ILE:HD12	1.72	0.70
1:I:207:TRP:HD1	1:I:227:GLU:OE2	1.74	0.70
1:K:248:GLN:OE1	1:K:268:PHE:CZ	2.44	0.70
1:K:284:SER:OG	1:K:286:ASP:OD1	2.09	0.70
1:L:101:MET:SD	1:L:104:ARG:NH2	2.64	0.70
1:P:101:MET:SD	1:P:104:ARG:NH2	2.64	0.70
1:D:284:SER:OG	1:D:286:ASP:OD1	2.09	0.70
1:D:547:PRO:CB	1:D:603:ILE:HG13	2.20	0.70
1:K:547:PRO:CB	1:K:603:ILE:HG13	2.20	0.70
1:B:547:PRO:CB	1:B:603:ILE:HG13	2.20	0.70
1:C:101:MET:SD	1:C:104:ARG:NH2	2.64	0.70
1:C:547:PRO:CB	1:C:603:ILE:HG13	2.20	0.70
1:F:101:MET:SD	1:F:104:ARG:NH2	2.64	0.70
1:F:389:ILE:CD1	1:F:446:HIS:CE1	2.70	0.70
1:H:101:MET:SD	1:H:104:ARG:NH2	2.64	0.70
1:H:248:GLN:OE1	1:H:268:PHE:CZ	2.43	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:636:SER:O	1:H:637:LEU:C	2.29	0.70
1:I:101:MET:SD	1:I:104:ARG:NH2	2.64	0.70
1:J:1149:LEU:H	1:J:1196:ALA:HB2	1.56	0.70
1:J:207:TRP:HD1	1:J:227:GLU:OE2	1.74	0.70
1:L:636:SER:O	1:L:637:LEU:C	2.29	0.70
1:M:1149:LEU:H	1:M:1196:ALA:HB2	1.56	0.70
1:O:101:MET:SD	1:O:104:ARG:NH2	2.64	0.70
1:B:207:TRP:HD1	1:B:227:GLU:OE2	1.74	0.70
1:I:313:PRO:CG	1:I:338:TRP:HZ2	1.98	0.70
1:K:636:SER:O	1:K:637:LEU:C	2.29	0.70
1:L:547:PRO:CB	1:L:603:ILE:HG13	2.20	0.70
1:M:207:TRP:HD1	1:M:227:GLU:OE2	1.74	0.70
1:M:547:PRO:CB	1:M:603:ILE:HG13	2.20	0.70
1:O:636:SER:O	1:O:637:LEU:C	2.29	0.70
1:B:1149:LEU:H	1:B:1196:ALA:HB2	1.56	0.70
1:D:207:TRP:HD1	1:D:227:GLU:OE2	1.74	0.70
1:E:207:TRP:HD1	1:E:227:GLU:OE2	1.74	0.70
1:K:207:TRP:HD1	1:K:227:GLU:OE2	1.74	0.70
1:N:1149:LEU:H	1:N:1196:ALA:HB2	1.56	0.70
1:O:248:GLN:OE1	1:O:268:PHE:CZ	2.44	0.70
1:A:1149:LEU:H	1:A:1196:ALA:HB2	1.56	0.70
1:D:101:MET:SD	1:D:104:ARG:NH2	2.64	0.70
1:D:383:THR:HG23	1:D:419:THR:C	2.12	0.70
1:D:636:SER:O	1:D:637:LEU:C	2.29	0.70
1:G:636:SER:O	1:G:637:LEU:C	2.29	0.70
1:J:458:LEU:HG	1:J:587:ARG:NH2	2.05	0.70
1:K:101:MET:SD	1:K:104:ARG:NH2	2.64	0.70
1:K:383:THR:HG23	1:K:419:THR:C	2.12	0.70
1:N:248:GLN:OE1	1:N:268:PHE:CZ	2.43	0.70
1:O:207:TRP:HD1	1:O:227:GLU:OE2	1.74	0.70
1:P:636:SER:O	1:P:637:LEU:C	2.29	0.70
1:A:248:GLN:OE1	1:A:268:PHE:CZ	2.43	0.70
1:A:636:SER:O	1:A:637:LEU:C	2.29	0.70
1:B:284:SER:OG	1:B:286:ASP:OD1	2.09	0.70
1:E:383:THR:HG23	1:E:419:THR:C	2.12	0.70
1:E:513:SER:HB3	1:E:514:ILE:HD12	1.72	0.70
1:G:383:THR:HG23	1:G:419:THR:C	2.13	0.70
1:H:1149:LEU:H	1:H:1196:ALA:HB2	1.56	0.70
1:N:207:TRP:HD1	1:N:227:GLU:OE2	1.74	0.70
1:N:636:SER:O	1:N:637:LEU:C	2.29	0.70
1:P:383:THR:HG23	1:P:419:THR:C	2.12	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:TRP:HD1	1:A:227:GLU:OE2	1.74	0.70
1:C:513:SER:HB3	1:C:514:ILE:HD12	1.72	0.70
1:C:636:SER:O	1:C:637:LEU:C	2.29	0.70
1:E:458:LEU:HG	1:E:587:ARG:NH2	2.05	0.70
1:F:513:SER:HB3	1:F:514:ILE:HD12	1.72	0.70
1:H:207:TRP:HD1	1:H:227:GLU:OE2	1.74	0.70
1:I:513:SER:HB3	1:I:514:ILE:HD12	1.72	0.70
1:J:513:SER:HB3	1:J:514:ILE:HD12	1.72	0.70
1:L:383:THR:HG23	1:L:419:THR:C	2.12	0.70
1:L:513:SER:HB3	1:L:514:ILE:HD12	1.72	0.70
1:M:284:SER:OG	1:M:286:ASP:OD1	2.09	0.70
1:M:636:SER:O	1:M:637:LEU:C	2.29	0.70
1:N:284:SER:OG	1:N:286:ASP:OD1	2.09	0.70
1:O:389:ILE:CD1	1:O:446:HIS:CE1	2.70	0.70
1:B:636:SER:O	1:B:637:LEU:C	2.29	0.69
1:H:383:THR:HG23	1:H:419:THR:C	2.12	0.69
1:K:222:HIS:CD2	1:L:198:LYS:NZ	2.59	0.69
1:O:1149:LEU:H	1:O:1196:ALA:HB2	1.56	0.69
1:P:317:LEU:HD21	1:P:341:TRP:CZ2	2.27	0.69
1:B:317:LEU:HD21	1:B:341:TRP:CZ2	2.28	0.69
1:C:545:PHE:HZ	1:C:565:ALA:HA	1.57	0.69
1:G:317:LEU:HD21	1:G:341:TRP:CZ2	2.27	0.69
1:J:383:THR:HG23	1:J:419:THR:C	2.13	0.69
1:L:545:PHE:HZ	1:L:565:ALA:HA	1.57	0.69
1:M:317:LEU:HD21	1:M:341:TRP:CZ2	2.28	0.69
1:O:383:THR:HG23	1:O:419:THR:C	2.12	0.69
1:A:284:SER:OG	1:A:286:ASP:OD1	2.09	0.69
1:B:517:THR:O	1:B:518:LEU:C	2.30	0.69
1:F:505:SER:OG	1:F:513:SER:OG	2.05	0.69
1:H:389:ILE:CD1	1:H:446:HIS:CE1	2.70	0.69
1:I:1149:LEU:H	1:I:1196:ALA:HB2	1.56	0.69
1:M:517:THR:O	1:M:518:LEU:C	2.30	0.69
1:N:101:MET:SD	1:N:104:ARG:NH2	2.64	0.69
1:N:207:TRP:NE1	1:N:227:GLU:OE1	2.23	0.69
1:A:101:MET:SD	1:A:104:ARG:NH2	2.64	0.69
1:A:207:TRP:NE1	1:A:227:GLU:OE1	2.23	0.69
1:B:476:LYS:HA	1:B:483:ARG:HH12	1.58	0.69
1:B:505:SER:OG	1:B:513:SER:OG	2.05	0.69
1:C:383:THR:HG23	1:C:419:THR:C	2.12	0.69
1:D:279:THR:HG23	1:D:280:THR:HG23	1.74	0.69
1:E:279:THR:HG23	1:E:280:THR:HG23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:547:PRO:CB	1:F:603:ILE:HG13	2.20	0.69
1:H:317:LEU:HD21	1:H:341:TRP:CZ2	2.27	0.69
1:I:383:THR:HG23	1:I:419:THR:C	2.12	0.69
1:K:279:THR:HG23	1:K:280:THR:HG23	1.74	0.69
1:M:476:LYS:HA	1:M:483:ARG:HH12	1.58	0.69
1:M:505:SER:OG	1:M:513:SER:OG	2.05	0.69
1:A:476:LYS:HA	1:A:483:ARG:HH12	1.58	0.69
1:C:476:LYS:HA	1:C:483:ARG:HH12	1.58	0.69
1:F:1149:LEU:H	1:F:1196:ALA:HB2	1.56	0.69
1:F:383:THR:HG23	1:F:419:THR:C	2.12	0.69
1:G:301:LEU:CD2	1:G:313:PRO:HG2	2.22	0.69
1:J:317:LEU:HD21	1:J:341:TRP:CZ2	2.27	0.69
1:K:463:LEU:HD22	1:K:467:PHE:HE2	1.54	0.69
1:N:476:LYS:HA	1:N:483:ARG:HH12	1.58	0.69
1:O:317:LEU:HD21	1:O:341:TRP:CZ2	2.27	0.69
1:A:383:THR:HG23	1:A:419:THR:C	2.12	0.69
1:D:517:THR:O	1:D:518:LEU:C	2.30	0.69
1:E:317:LEU:HD21	1:E:341:TRP:CZ2	2.28	0.69
1:F:301:LEU:CD2	1:F:313:PRO:HG2	2.22	0.69
1:L:301:LEU:CD2	1:L:313:PRO:HG2	2.22	0.69
1:P:301:LEU:CD2	1:P:313:PRO:HG2	2.22	0.69
1:D:916:LYS:CE	1:E:1177:TYR:HE2	2.06	0.69
1:H:476:LYS:HA	1:H:483:ARG:HH12	1.58	0.69
1:I:279:THR:HG23	1:I:280:THR:HG23	1.74	0.69
1:I:617:HIS:HE1	1:I:663:GLN:HB3	1.58	0.69
1:J:279:THR:HG23	1:J:280:THR:HG23	1.74	0.69
1:J:463:LEU:HD22	1:J:467:PHE:HE2	1.55	0.69
1:K:517:THR:O	1:K:518:LEU:C	2.30	0.69
1:N:317:LEU:HD21	1:N:341:TRP:CZ2	2.27	0.69
1:A:317:LEU:HD21	1:A:341:TRP:CZ2	2.27	0.69
1:A:517:THR:O	1:A:518:LEU:C	2.30	0.69
1:A:918:ILE:O	1:A:919:VAL:HG13	1.93	0.69
1:B:248:GLN:OE1	1:B:268:PHE:CZ	2.43	0.69
1:E:617:HIS:HE1	1:E:663:GLN:HB3	1.58	0.69
1:F:279:THR:HG23	1:F:280:THR:HG23	1.74	0.69
1:I:301:LEU:CD2	1:I:313:PRO:HG2	2.22	0.69
1:L:248:GLN:OE1	1:L:268:PHE:CZ	2.43	0.69
1:L:317:LEU:HD21	1:L:341:TRP:CZ2	2.27	0.69
1:L:476:LYS:HA	1:L:483:ARG:HH12	1.58	0.69
1:N:279:THR:HG23	1:N:280:THR:HG23	1.74	0.69
1:N:918:ILE:O	1:N:919:VAL:HG13	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:279:THR:HG23	1:A:280:THR:HG23	1.74	0.69
1:B:504:ASP:CB	1:B:509:ASN:O	2.41	0.69
1:C:317:LEU:HD21	1:C:341:TRP:CZ2	2.27	0.69
1:D:463:LEU:HD22	1:D:467:PHE:HE2	1.55	0.69
1:E:517:THR:O	1:E:518:LEU:C	2.30	0.69
1:F:617:HIS:HE1	1:F:663:GLN:HB3	1.58	0.69
1:G:918:ILE:O	1:G:919:VAL:HG13	1.93	0.69
1:J:517:THR:O	1:J:518:LEU:C	2.30	0.69
1:J:617:HIS:HE1	1:J:663:GLN:HB3	1.58	0.69
1:L:279:THR:HG23	1:L:280:THR:HG23	1.74	0.69
1:M:248:GLN:OE1	1:M:268:PHE:CZ	2.44	0.69
1:M:313:PRO:HG3	1:M:338:TRP:CZ2	2.28	0.69
1:M:504:ASP:CB	1:M:509:ASN:O	2.41	0.69
1:N:383:THR:HG23	1:N:419:THR:C	2.13	0.69
1:N:517:THR:O	1:N:518:LEU:C	2.30	0.69
1:O:476:LYS:HA	1:O:483:ARG:HH12	1.58	0.69
1:B:313:PRO:HG3	1:B:338:TRP:CZ2	2.28	0.69
1:D:317:LEU:HD21	1:D:341:TRP:CZ2	2.27	0.69
1:E:476:LYS:HA	1:E:483:ARG:HH12	1.58	0.69
1:H:301:LEU:CD2	1:H:313:PRO:HG2	2.22	0.69
1:I:508:TRP:HA	1:I:606:GLY:C	2.14	0.69
1:I:547:PRO:CB	1:I:603:ILE:HG13	2.20	0.69
1:J:389:ILE:CD1	1:J:446:HIS:CE1	2.70	0.69
1:J:476:LYS:HA	1:J:483:ARG:HH12	1.58	0.69
1:J:545:PHE:HZ	1:J:565:ALA:HA	1.57	0.69
1:K:317:LEU:HD21	1:K:341:TRP:CZ2	2.27	0.69
1:P:504:ASP:CB	1:P:509:ASN:O	2.41	0.69
1:P:918:ILE:O	1:P:919:VAL:HG13	1.93	0.69
1:B:383:THR:HG23	1:B:419:THR:C	2.12	0.69
1:C:301:LEU:CD2	1:C:313:PRO:HG2	2.22	0.69
1:E:545:PHE:HZ	1:E:565:ALA:HA	1.57	0.69
1:G:504:ASP:CB	1:G:509:ASN:O	2.41	0.69
1:G:508:TRP:HA	1:G:606:GLY:C	2.13	0.69
1:K:216:ASN:ND2	1:L:194:GLU:OE2	2.26	0.69
1:M:383:THR:HG23	1:M:419:THR:C	2.12	0.69
1:M:918:ILE:O	1:M:919:VAL:HG13	1.93	0.69
1:N:508:TRP:HA	1:N:606:GLY:C	2.13	0.69
1:O:301:LEU:CD2	1:O:313:PRO:HG2	2.22	0.69
1:A:508:TRP:HA	1:A:606:GLY:C	2.13	0.68
1:B:617:HIS:HE1	1:B:663:GLN:HB3	1.58	0.68
1:B:918:ILE:O	1:B:919:VAL:HG13	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:248:GLN:OE1	1:C:268:PHE:CZ	2.43	0.68
1:C:918:ILE:O	1:C:919:VAL:HG13	1.93	0.68
1:E:313:PRO:HG3	1:E:338:TRP:CZ2	2.28	0.68
1:E:389:ILE:CD1	1:E:446:HIS:CE1	2.70	0.68
1:F:122:LYS:HG3	1:G:276:SER:OG	1.93	0.68
1:F:508:TRP:HA	1:F:606:GLY:C	2.13	0.68
1:H:918:ILE:O	1:H:919:VAL:HG13	1.93	0.68
1:I:505:SER:OG	1:I:513:SER:OG	2.05	0.68
1:J:313:PRO:HG3	1:J:338:TRP:CZ2	2.28	0.68
1:O:508:TRP:HA	1:O:606:GLY:C	2.13	0.68
1:O:918:ILE:O	1:O:919:VAL:HG13	1.93	0.68
1:P:508:TRP:HA	1:P:606:GLY:C	2.13	0.68
1:A:617:HIS:HE1	1:A:663:GLN:HB3	1.58	0.68
1:B:301:LEU:CD2	1:B:313:PRO:HG2	2.22	0.68
1:E:523:PHE:HD1	1:E:527:TYR:HE2	1.42	0.68
1:F:317:LEU:HD21	1:F:341:TRP:CZ2	2.27	0.68
1:F:383:THR:HG22	1:F:420:ILE:HG23	1.76	0.68
1:F:504:ASP:CB	1:F:509:ASN:O	2.41	0.68
1:G:207:TRP:HD1	1:G:227:GLU:OE2	1.74	0.68
1:G:382:PRO:CA	1:G:419:THR:HG22	2.24	0.68
1:G:383:THR:HG22	1:G:420:ILE:HG23	1.76	0.68
1:H:313:PRO:HG3	1:H:338:TRP:CZ2	2.28	0.68
1:H:463:LEU:HD22	1:H:467:PHE:HE2	1.55	0.68
1:H:508:TRP:HA	1:H:606:GLY:C	2.13	0.68
1:I:383:THR:HG22	1:I:420:ILE:HG23	1.76	0.68
1:J:523:PHE:HD1	1:J:527:TYR:HE2	1.42	0.68
1:L:918:ILE:O	1:L:919:VAL:HG13	1.93	0.68
1:M:617:HIS:HE1	1:M:663:GLN:HB3	1.58	0.68
1:N:617:HIS:HE1	1:N:663:GLN:HB3	1.58	0.68
1:P:382:PRO:CA	1:P:419:THR:HG22	2.23	0.68
1:A:504:ASP:CB	1:A:509:ASN:O	2.41	0.68
1:C:279:THR:HG23	1:C:280:THR:HG23	1.74	0.68
1:D:504:ASP:CB	1:D:509:ASN:O	2.41	0.68
1:I:194:GLU:OE2	1:P:216:ASN:ND2	2.26	0.68
1:I:317:LEU:HD21	1:I:341:TRP:CZ2	2.27	0.68
1:M:301:LEU:CD2	1:M:313:PRO:HG2	2.22	0.68
1:N:383:THR:HG22	1:N:420:ILE:HG23	1.76	0.68
1:P:207:TRP:HD1	1:P:227:GLU:OE2	1.74	0.68
1:P:383:THR:HG22	1:P:420:ILE:HG23	1.76	0.68
1:A:383:THR:HG22	1:A:420:ILE:HG23	1.76	0.68
1:B:383:THR:HG22	1:B:420:ILE:HG23	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:476:LYS:HA	1:D:483:ARG:HH12	1.58	0.68
1:D:523:PHE:HD1	1:D:527:TYR:HE2	1.42	0.68
1:E:382:PRO:CA	1:E:419:THR:HG22	2.23	0.68
1:E:508:TRP:HA	1:E:606:GLY:C	2.13	0.68
1:G:476:LYS:HA	1:G:483:ARG:HH12	1.58	0.68
1:H:279:THR:HG23	1:H:280:THR:HG23	1.74	0.68
1:I:504:ASP:CB	1:I:509:ASN:O	2.41	0.68
1:K:476:LYS:HA	1:K:483:ARG:HH12	1.58	0.68
1:K:504:ASP:CB	1:K:509:ASN:O	2.41	0.68
1:K:523:PHE:HD1	1:K:527:TYR:HE2	1.42	0.68
1:O:313:PRO:HG3	1:O:338:TRP:CZ2	2.28	0.68
1:O:463:LEU:HD22	1:O:467:PHE:HE2	1.55	0.68
1:A:301:LEU:CD2	1:A:313:PRO:HG2	2.22	0.68
1:A:523:PHE:HD1	1:A:527:TYR:HE2	1.42	0.68
1:A:547:PRO:CB	1:A:603:ILE:HG13	2.20	0.68
1:F:545:PHE:HZ	1:F:565:ALA:HA	1.57	0.68
1:H:207:TRP:NE1	1:H:227:GLU:OE1	2.23	0.68
1:I:14:ASP:OD2	1:P:142:ARG:NH1	2.27	0.68
1:I:313:PRO:HG3	1:I:338:TRP:CZ2	2.28	0.68
1:I:545:PHE:HZ	1:I:565:ALA:HA	1.57	0.68
1:J:382:PRO:CA	1:J:419:THR:HG22	2.24	0.68
1:M:383:THR:HG22	1:M:420:ILE:HG23	1.76	0.68
1:N:301:LEU:CD2	1:N:313:PRO:HG2	2.22	0.68
1:N:504:ASP:CB	1:N:509:ASN:O	2.41	0.68
1:O:383:THR:HG22	1:O:420:ILE:HG23	1.76	0.68
1:P:476:LYS:HA	1:P:483:ARG:HH12	1.58	0.68
1:B:523:PHE:HD1	1:B:527:TYR:HE2	1.42	0.68
1:C:504:ASP:CB	1:C:509:ASN:O	2.41	0.68
1:C:517:THR:O	1:C:518:LEU:C	2.30	0.68
1:C:617:HIS:HE1	1:C:663:GLN:HB3	1.58	0.68
1:I:523:PHE:HD1	1:I:527:TYR:HE2	1.42	0.68
1:J:508:TRP:HA	1:J:606:GLY:C	2.13	0.68
1:M:523:PHE:HD1	1:M:527:TYR:HE2	1.42	0.68
1:N:523:PHE:HD1	1:N:527:TYR:HE2	1.42	0.68
1:B:508:TRP:HA	1:B:606:GLY:C	2.13	0.68
1:D:508:TRP:HA	1:D:606:GLY:C	2.13	0.68
1:E:918:ILE:O	1:E:919:VAL:HG13	1.93	0.68
1:F:523:PHE:HD1	1:F:527:TYR:HE2	1.42	0.68
1:F:918:ILE:O	1:F:919:VAL:HG13	1.93	0.68
1:H:383:THR:HG22	1:H:420:ILE:HG23	1.76	0.68
1:K:508:TRP:HA	1:K:606:GLY:C	2.14	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:504:ASP:CB	1:L:509:ASN:O	2.41	0.68
1:M:508:TRP:HA	1:M:606:GLY:C	2.14	0.68
1:O:279:THR:HG23	1:O:280:THR:HG23	1.74	0.68
1:O:617:HIS:HE1	1:O:663:GLN:HB3	1.58	0.68
1:E:383:THR:HG22	1:E:420:ILE:HG23	1.76	0.68
1:F:313:PRO:HG3	1:F:338:TRP:CZ2	2.28	0.68
1:G:207:TRP:NE1	1:G:227:GLU:OE1	2.23	0.68
1:G:617:HIS:HE1	1:G:663:GLN:HB3	1.58	0.68
1:J:918:ILE:O	1:J:919:VAL:HG13	1.93	0.68
1:O:207:TRP:NE1	1:O:227:GLU:OE1	2.23	0.68
1:O:523:PHE:HD1	1:O:527:TYR:HE2	1.42	0.68
1:P:207:TRP:NE1	1:P:227:GLU:OE1	2.23	0.68
1:P:523:PHE:HD1	1:P:527:TYR:HE2	1.42	0.68
1:P:617:HIS:HE1	1:P:663:GLN:HB3	1.58	0.68
1:D:617:HIS:HE1	1:D:663:GLN:HB3	1.58	0.68
1:E:301:LEU:CD2	1:E:313:PRO:HG2	2.22	0.68
1:E:463:LEU:HD22	1:E:467:PHE:HE2	1.55	0.68
1:F:517:THR:HG23	1:F:518:LEU:N	2.09	0.68
1:F:517:THR:O	1:F:518:LEU:C	2.30	0.68
1:H:523:PHE:HD1	1:H:527:TYR:HE2	1.42	0.68
1:H:617:HIS:HE1	1:H:663:GLN:HB3	1.58	0.68
1:I:517:THR:HG23	1:I:518:LEU:N	2.09	0.68
1:I:517:THR:O	1:I:518:LEU:C	2.30	0.68
1:L:517:THR:O	1:L:518:LEU:C	2.30	0.68
1:N:463:LEU:HD22	1:N:467:PHE:HE2	1.55	0.68
1:A:463:LEU:HD22	1:A:467:PHE:HE2	1.55	0.68
1:C:508:TRP:HA	1:C:606:GLY:C	2.13	0.68
1:D:517:THR:HG23	1:D:518:LEU:N	2.09	0.68
1:G:279:THR:HG23	1:G:280:THR:HG23	1.74	0.68
1:G:523:PHE:HD1	1:G:527:TYR:HE2	1.42	0.68
1:J:383:THR:HG22	1:J:420:ILE:HG23	1.76	0.68
1:K:617:HIS:HE1	1:K:663:GLN:HB3	1.58	0.68
1:L:383:THR:HG22	1:L:420:ILE:HG23	1.76	0.68
1:L:508:TRP:HA	1:L:606:GLY:C	2.13	0.68
1:L:617:HIS:HE1	1:L:663:GLN:HB3	1.58	0.68
1:N:517:THR:HG23	1:N:518:LEU:N	2.09	0.68
1:P:279:THR:HG23	1:P:280:THR:HG23	1.74	0.67
1:A:517:THR:HG23	1:A:518:LEU:N	2.09	0.67
1:C:383:THR:HG22	1:C:420:ILE:HG23	1.76	0.67
1:F:476:LYS:HA	1:F:483:ARG:HH12	1.58	0.67
1:H:398:VAL:HG23	1:H:399:MET:H	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:918:ILE:O	1:I:919:VAL:HG13	1.93	0.67
1:J:301:LEU:CD2	1:J:313:PRO:HG2	2.22	0.67
1:K:517:THR:HG23	1:K:518:LEU:N	2.09	0.67
1:L:382:PRO:CA	1:L:419:THR:HG22	2.24	0.67
1:N:389:ILE:CD1	1:N:446:HIS:CE1	2.70	0.67
1:O:504:ASP:CB	1:O:509:ASN:O	2.41	0.67
1:P:517:THR:HG23	1:P:518:LEU:N	2.09	0.67
1:B:517:THR:HG23	1:B:518:LEU:N	2.09	0.67
1:C:517:THR:HG23	1:C:518:LEU:N	2.09	0.67
1:D:313:PRO:HG3	1:D:338:TRP:CZ2	2.28	0.67
1:G:517:THR:HG23	1:G:518:LEU:N	2.09	0.67
1:H:504:ASP:CB	1:H:509:ASN:O	2.41	0.67
1:H:517:THR:HG23	1:H:518:LEU:N	2.09	0.67
1:I:476:LYS:HA	1:I:483:ARG:HH12	1.58	0.67
1:L:517:THR:HG23	1:L:518:LEU:N	2.09	0.67
1:N:398:VAL:HG23	1:N:399:MET:H	1.60	0.67
1:O:398:VAL:HG23	1:O:399:MET:H	1.60	0.67
1:O:517:THR:O	1:O:518:LEU:C	2.30	0.67
1:A:398:VAL:HG23	1:A:399:MET:H	1.60	0.67
1:A:545:PHE:HZ	1:A:565:ALA:HA	1.57	0.67
1:D:405:LEU:HG	1:D:411:VAL:HG23	1.77	0.67
1:D:383:THR:HG22	1:D:420:ILE:HG23	1.76	0.67
1:G:398:VAL:HG23	1:G:399:MET:H	1.60	0.67
1:H:517:THR:O	1:H:518:LEU:C	2.30	0.67
1:K:313:PRO:HG3	1:K:338:TRP:CZ2	2.28	0.67
1:K:383:THR:HG22	1:K:420:ILE:HG23	1.76	0.67
1:L:523:PHE:HD1	1:L:527:TYR:HE2	1.42	0.67
1:M:517:THR:HG23	1:M:518:LEU:N	2.09	0.67
1:O:517:THR:HG23	1:O:518:LEU:N	2.09	0.67
1:B:279:THR:HG23	1:B:280:THR:HG23	1.74	0.67
1:B:398:VAL:HG23	1:B:399:MET:H	1.60	0.67
1:C:313:PRO:HG3	1:C:338:TRP:CZ2	2.28	0.67
1:C:523:PHE:HD1	1:C:527:TYR:HE2	1.42	0.67
1:I:207:TRP:NE1	1:I:227:GLU:OE1	2.23	0.67
1:L:398:VAL:HG23	1:L:399:MET:H	1.60	0.67
1:M:398:VAL:HG23	1:M:399:MET:H	1.60	0.67
1:I:398:VAL:HG23	1:I:399:MET:H	1.60	0.67
1:J:517:THR:HG23	1:J:518:LEU:N	2.09	0.67
1:K:276:SER:HB3	1:L:121:ALA:CB	2.14	0.67
1:K:405:LEU:HG	1:K:411:VAL:HG23	1.77	0.67
1:O:382:PRO:CA	1:O:419:THR:HG22	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:142:ARG:NH1	1:P:14:ASP:OD2	2.28	0.67
1:P:398:VAL:HG23	1:P:399:MET:H	1.60	0.67
1:P:517:THR:O	1:P:518:LEU:C	2.30	0.67
1:A:389:ILE:CD1	1:A:446:HIS:CE1	2.70	0.67
1:B:545:PHE:HZ	1:B:565:ALA:HA	1.57	0.67
1:C:398:VAL:HG23	1:C:399:MET:H	1.60	0.67
1:C:382:PRO:CA	1:C:419:THR:HG22	2.24	0.67
1:E:517:THR:HG23	1:E:518:LEU:N	2.09	0.67
1:G:517:THR:O	1:G:518:LEU:C	2.30	0.67
1:K:142:ARG:NH1	1:L:14:ASP:OD2	2.27	0.67
1:M:279:THR:HG23	1:M:280:THR:HG23	1.74	0.67
1:M:545:PHE:HZ	1:M:565:ALA:HA	1.58	0.67
1:N:545:PHE:HZ	1:N:565:ALA:HA	1.57	0.67
1:A:11:GLN:HE21	1:A:70:GLU:HB3	1.60	0.67
1:A:382:PRO:CA	1:A:419:THR:HG22	2.23	0.67
1:B:382:PRO:CA	1:B:419:THR:HG22	2.23	0.67
1:F:207:TRP:NE1	1:F:227:GLU:OE1	2.23	0.67
1:H:382:PRO:CA	1:H:419:THR:HG22	2.23	0.67
1:H:11:GLN:HE21	1:H:70:GLU:HB3	1.60	0.67
1:K:918:ILE:O	1:K:919:VAL:HG13	1.93	0.67
1:L:313:PRO:HG3	1:L:338:TRP:CZ2	2.28	0.67
1:L:405:LEU:HG	1:L:411:VAL:HG23	1.77	0.67
1:M:11:GLN:HE21	1:M:70:GLU:HB3	1.60	0.67
1:B:11:GLN:HE21	1:B:70:GLU:HB3	1.60	0.67
1:D:918:ILE:O	1:D:919:VAL:HG13	1.93	0.67
1:E:398:VAL:HG23	1:E:399:MET:H	1.60	0.67
1:J:398:VAL:HG23	1:J:399:MET:H	1.60	0.67
1:L:11:GLN:HE21	1:L:70:GLU:HB3	1.60	0.67
1:N:11:GLN:HE21	1:N:70:GLU:HB3	1.60	0.67
1:O:11:GLN:HE21	1:O:70:GLU:HB3	1.60	0.67
1:P:313:PRO:HG3	1:P:338:TRP:CZ2	2.28	0.67
1:P:11:GLN:HE21	1:P:70:GLU:HB3	1.60	0.67
1:C:317:LEU:CD2	1:C:341:TRP:CZ2	2.78	0.67
1:K:398:VAL:HG23	1:K:399:MET:H	1.60	0.67
1:M:382:PRO:CA	1:M:419:THR:HG22	2.24	0.67
1:N:382:PRO:CA	1:N:419:THR:HG22	2.24	0.67
1:O:545:PHE:HZ	1:O:565:ALA:HA	1.57	0.67
1:P:598:GLN:HG2	1:P:1228:ILE:HG23	1.77	0.67
1:C:11:GLN:HE21	1:C:70:GLU:HB3	1.60	0.66
1:F:398:VAL:HG23	1:F:399:MET:H	1.60	0.66
1:F:598:GLN:HG2	1:F:1228:ILE:HG23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:313:PRO:HG3	1:G:338:TRP:CZ2	2.28	0.66
1:G:11:GLN:HE21	1:G:70:GLU:HB3	1.60	0.66
1:H:598:GLN:HG2	1:H:1228:ILE:HG23	1.78	0.66
1:I:317:LEU:CD2	1:I:341:TRP:CZ2	2.79	0.66
1:I:382:PRO:CA	1:I:419:THR:HG22	2.23	0.66
1:J:317:LEU:CD2	1:J:341:TRP:CZ2	2.78	0.66
1:J:598:GLN:HG2	1:J:1228:ILE:HG23	1.78	0.66
1:L:317:LEU:CD2	1:L:341:TRP:CZ2	2.79	0.66
1:M:520:GLN:HB3	1:M:524:TYR:OH	1.95	0.66
1:O:598:GLN:HG2	1:O:1228:ILE:HG23	1.78	0.66
1:A:313:PRO:HG3	1:A:338:TRP:CZ2	2.28	0.66
1:B:520:GLN:HB3	1:B:524:TYR:OH	1.95	0.66
1:C:405:LEU:HG	1:C:411:VAL:HG23	1.77	0.66
1:D:398:VAL:HG23	1:D:399:MET:H	1.60	0.66
1:E:317:LEU:CD2	1:E:341:TRP:CZ2	2.79	0.66
1:E:598:GLN:HG2	1:E:1228:ILE:HG23	1.78	0.66
1:F:317:LEU:CD2	1:F:341:TRP:CZ2	2.79	0.66
1:G:598:GLN:HG2	1:G:1228:ILE:HG23	1.78	0.66
1:H:545:PHE:HZ	1:H:565:ALA:HA	1.57	0.66
1:I:598:GLN:HG2	1:I:1228:ILE:HG23	1.78	0.66
1:K:11:GLN:HE21	1:K:70:GLU:HB3	1.60	0.66
1:L:914:VAL:CG2	1:L:917:TYR:O	2.44	0.66
1:M:637:LEU:O	1:M:638:GLU:CB	2.43	0.66
1:B:314:ARG:C	1:B:315:GLU:HG3	2.15	0.66
1:B:121:ALA:CB	1:C:276:SER:CB	2.61	0.66
1:C:914:VAL:CG2	1:C:917:TYR:O	2.44	0.66
1:D:520:GLN:HB3	1:D:524:TYR:OH	1.96	0.66
1:D:11:GLN:HE21	1:D:70:GLU:HB3	1.60	0.66
1:E:914:VAL:CG2	1:E:917:TYR:O	2.44	0.66
1:F:122:LYS:CG	1:G:276:SER:OG	2.43	0.66
1:J:1177:TYR:HE2	1:K:916:LYS:CE	2.08	0.66
1:J:914:VAL:CG2	1:J:917:TYR:O	2.44	0.66
1:L:463:LEU:HD22	1:L:467:PHE:HE2	1.55	0.66
1:N:313:PRO:HG3	1:N:338:TRP:CZ2	2.28	0.66
1:A:520:GLN:HB3	1:A:524:TYR:OH	1.95	0.66
1:K:520:GLN:HB3	1:K:524:TYR:OH	1.96	0.66
1:M:314:ARG:C	1:M:315:GLU:HG3	2.15	0.66
1:N:598:GLN:HG2	1:N:1228:ILE:HG23	1.77	0.66
1:A:314:ARG:C	1:A:315:GLU:HG3	2.16	0.66
1:B:463:LEU:HD22	1:B:467:PHE:HE2	1.55	0.66
1:F:382:PRO:CA	1:F:419:THR:HG22	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:314:ARG:C	1:N:315:GLU:HG3	2.16	0.66
1:N:520:GLN:HB3	1:N:524:TYR:OH	1.95	0.66
1:C:314:ARG:C	1:C:315:GLU:HG3	2.16	0.66
1:D:266:THR:HG21	1:D:271:VAL:HB	1.78	0.66
1:H:1214:LEU:HB3	1:H:1223:GLN:HA	1.78	0.66
1:I:464:ASP:O	1:I:468:TYR:CE2	2.49	0.66
1:K:266:THR:HG21	1:K:271:VAL:HB	1.78	0.66
1:K:389:ILE:CD1	1:K:446:HIS:CE1	2.70	0.66
1:O:1214:LEU:HB3	1:O:1223:GLN:HA	1.78	0.66
1:A:598:GLN:HG2	1:A:1228:ILE:HG23	1.78	0.66
1:B:317:LEU:CD2	1:B:341:TRP:CZ2	2.79	0.66
1:C:14:ASP:CG	1:D:142:ARG:HH22	1.98	0.66
1:D:916:LYS:HE2	1:E:1177:TYR:HE2	1.60	0.66
1:F:198:LYS:HZ1	1:G:222:HIS:CG	2.14	0.66
1:G:1214:LEU:HB3	1:G:1223:GLN:HA	1.78	0.66
1:G:464:ASP:O	1:G:468:TYR:CE2	2.49	0.66
1:O:413:LYS:O	1:O:421:SER:HB3	1.95	0.66
1:C:266:THR:HG21	1:C:271:VAL:HB	1.78	0.66
1:E:314:ARG:C	1:E:315:GLU:HG3	2.15	0.66
1:F:464:ASP:O	1:F:468:TYR:CE2	2.49	0.66
1:G:499:GLN:NE2	1:G:516:ASN:HB3	2.11	0.66
1:H:405:LEU:HG	1:H:411:VAL:HG23	1.77	0.66
1:H:413:LYS:O	1:H:421:SER:HB3	1.96	0.66
1:I:914:VAL:CG2	1:I:917:TYR:O	2.44	0.66
1:J:1214:LEU:HB3	1:J:1223:GLN:HA	1.78	0.66
1:J:266:THR:HG21	1:J:271:VAL:HB	1.78	0.66
1:J:464:ASP:O	1:J:468:TYR:CE2	2.49	0.66
1:K:492:LEU:HD11	1:K:561:LEU:HD21	1.78	0.66
1:L:266:THR:HG21	1:L:271:VAL:HB	1.78	0.66
1:L:313:PRO:CG	1:L:338:TRP:HE1	2.07	0.66
1:L:216:ASN:ND2	1:M:194:GLU:OE2	2.29	0.66
1:M:317:LEU:CD2	1:M:341:TRP:CZ2	2.79	0.66
1:P:464:ASP:O	1:P:468:TYR:CE2	2.49	0.66
1:A:914:VAL:CG2	1:A:917:TYR:O	2.44	0.66
1:D:598:GLN:HG2	1:D:1228:ILE:HG23	1.78	0.66
1:D:317:LEU:CD2	1:D:341:TRP:CZ2	2.79	0.66
1:D:389:ILE:CD1	1:D:446:HIS:CE1	2.70	0.66
1:D:492:LEU:HD11	1:D:561:LEU:HD21	1.78	0.66
1:D:637:LEU:O	1:D:638:GLU:CB	2.43	0.66
1:E:1214:LEU:HB3	1:E:1223:GLN:HA	1.78	0.66
1:E:464:ASP:O	1:E:468:TYR:CE2	2.49	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:637:LEU:O	1:E:638:GLU:CB	2.43	0.66
1:F:914:VAL:CG2	1:F:917:TYR:O	2.44	0.66
1:G:314:ARG:C	1:G:315:GLU:HG3	2.15	0.66
1:I:1214:LEU:HB3	1:I:1223:GLN:HA	1.78	0.66
1:J:314:ARG:C	1:J:315:GLU:HG3	2.16	0.66
1:K:317:LEU:CD2	1:K:341:TRP:CZ2	2.79	0.66
1:K:598:GLN:HG2	1:K:1228:ILE:HG23	1.78	0.66
1:N:914:VAL:CG2	1:N:917:TYR:O	2.44	0.66
1:O:405:LEU:HG	1:O:411:VAL:HG23	1.77	0.66
1:P:1214:LEU:HB3	1:P:1223:GLN:HA	1.78	0.66
1:P:405:LEU:HG	1:P:411:VAL:HG23	1.77	0.66
1:P:492:LEU:HD11	1:P:561:LEU:HD21	1.78	0.66
1:P:499:GLN:NE2	1:P:516:ASN:HB3	2.11	0.66
1:A:1214:LEU:HB3	1:A:1223:GLN:HA	1.78	0.66
1:A:317:LEU:C	1:A:318:THR:HG1	1.94	0.66
1:A:413:LYS:O	1:A:421:SER:HB3	1.96	0.66
1:B:413:LYS:O	1:B:421:SER:HB3	1.96	0.66
1:C:413:LYS:O	1:C:421:SER:HB3	1.96	0.66
1:D:914:VAL:CG2	1:D:917:TYR:O	2.44	0.66
1:E:266:THR:HG21	1:E:271:VAL:HB	1.78	0.66
1:E:413:LYS:O	1:E:421:SER:HB3	1.96	0.66
1:E:504:ASP:CB	1:E:509:ASN:O	2.41	0.66
1:F:1214:LEU:HB3	1:F:1223:GLN:HA	1.78	0.66
1:F:492:LEU:HD11	1:F:561:LEU:HD21	1.78	0.66
1:F:11:GLN:HE21	1:F:70:GLU:HB3	1.60	0.66
1:G:405:LEU:HG	1:G:411:VAL:HG23	1.77	0.66
1:G:520:GLN:HB3	1:G:524:TYR:OH	1.96	0.66
1:J:142:ARG:NH1	1:K:14:ASP:OD2	2.29	0.66
1:J:504:ASP:CB	1:J:509:ASN:O	2.41	0.66
1:J:637:LEU:O	1:J:638:GLU:CB	2.43	0.66
1:K:637:LEU:O	1:K:638:GLU:CB	2.43	0.66
1:K:914:VAL:CG2	1:K:917:TYR:O	2.44	0.66
1:M:413:LYS:O	1:M:421:SER:HB3	1.96	0.66
1:M:463:LEU:HD22	1:M:467:PHE:HE2	1.55	0.66
1:N:1214:LEU:HB3	1:N:1223:GLN:HA	1.78	0.66
1:O:499:GLN:NE2	1:O:516:ASN:HB3	2.11	0.66
1:P:314:ARG:C	1:P:315:GLU:HG3	2.16	0.66
1:P:317:LEU:CD2	1:P:341:TRP:CZ2	2.78	0.66
1:P:520:GLN:HB3	1:P:524:TYR:OH	1.96	0.66
1:A:405:LEU:HG	1:A:411:VAL:HG23	1.77	0.65
1:B:598:GLN:HG2	1:B:1228:ILE:HG23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:313:PRO:CG	1:C:338:TRP:HE1	2.07	0.65
1:D:301:LEU:CD2	1:D:313:PRO:HG2	2.22	0.65
1:G:317:LEU:CD2	1:G:341:TRP:CZ2	2.79	0.65
1:G:492:LEU:HD11	1:G:561:LEU:HD21	1.78	0.65
1:G:914:VAL:CG2	1:G:917:TYR:O	2.44	0.65
1:H:451:LYS:HD3	1:H:486:LEU:CD2	2.26	0.65
1:J:413:LYS:O	1:J:421:SER:HB3	1.96	0.65
1:J:499:GLN:NE2	1:J:516:ASN:HB3	2.11	0.65
1:M:598:GLN:HG2	1:M:1228:ILE:HG23	1.78	0.65
1:N:317:LEU:C	1:N:318:THR:HG1	1.94	0.65
1:N:492:LEU:HD11	1:N:561:LEU:HD21	1.78	0.65
1:O:520:GLN:HB3	1:O:524:TYR:OH	1.96	0.65
1:E:499:GLN:NE2	1:E:516:ASN:HB3	2.11	0.65
1:F:413:LYS:O	1:F:421:SER:HB3	1.95	0.65
1:F:520:GLN:HB3	1:F:524:TYR:OH	1.95	0.65
1:H:499:GLN:NE2	1:H:516:ASN:HB3	2.11	0.65
1:H:520:GLN:HB3	1:H:524:TYR:OH	1.95	0.65
1:H:914:VAL:CG2	1:H:917:TYR:O	2.44	0.65
1:I:492:LEU:HD11	1:I:561:LEU:HD21	1.78	0.65
1:J:517:THR:HG23	1:J:518:LEU:H	1.62	0.65
1:K:464:ASP:O	1:K:468:TYR:CE2	2.49	0.65
1:L:598:GLN:HG2	1:L:1228:ILE:HG23	1.78	0.65
1:M:389:ILE:CD1	1:M:446:HIS:CE1	2.70	0.65
1:O:451:LYS:HD3	1:O:486:LEU:CD2	2.26	0.65
1:O:464:ASP:O	1:O:468:TYR:CE2	2.49	0.65
1:O:517:THR:HG23	1:O:518:LEU:H	1.62	0.65
1:P:914:VAL:CG2	1:P:917:TYR:O	2.44	0.65
1:A:492:LEU:HD11	1:A:561:LEU:HD21	1.78	0.65
1:B:266:THR:HG21	1:B:271:VAL:HB	1.78	0.65
1:C:315:GLU:O	1:C:316:VAL:HG22	1.97	0.65
1:E:517:THR:HG23	1:E:518:LEU:H	1.62	0.65
1:E:11:GLN:HE21	1:E:70:GLU:HB3	1.60	0.65
1:F:266:THR:HG21	1:F:271:VAL:HB	1.78	0.65
1:H:464:ASP:O	1:H:468:TYR:CE2	2.49	0.65
1:H:517:THR:HG23	1:H:518:LEU:H	1.62	0.65
1:K:301:LEU:CD2	1:K:313:PRO:HG2	2.22	0.65
1:L:413:LYS:O	1:L:421:SER:HB3	1.96	0.65
1:L:389:ILE:CD1	1:L:446:HIS:CE1	2.70	0.65
1:M:266:THR:HG21	1:M:271:VAL:HB	1.78	0.65
1:N:266:THR:HG21	1:N:271:VAL:HB	1.78	0.65
1:N:405:LEU:HG	1:N:411:VAL:HG23	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:413:LYS:O	1:N:421:SER:HB3	1.96	0.65
1:O:914:VAL:CG2	1:O:917:TYR:O	2.44	0.65
1:A:266:THR:HG21	1:A:271:VAL:HB	1.78	0.65
1:C:598:GLN:HG2	1:C:1228:ILE:HG23	1.78	0.65
1:C:463:LEU:HD22	1:C:467:PHE:HE2	1.55	0.65
1:D:1214:LEU:HB3	1:D:1223:GLN:HA	1.78	0.65
1:D:315:GLU:O	1:D:316:VAL:HG22	1.97	0.65
1:D:464:ASP:O	1:D:468:TYR:CE2	2.49	0.65
1:D:499:GLN:NE2	1:D:516:ASN:HB3	2.11	0.65
1:D:517:THR:HG23	1:D:518:LEU:H	1.62	0.65
2:F:1501:DTP:O2A	2:F:1501:DTP:H8	1.96	0.65
1:G:315:GLU:O	1:G:316:VAL:HG22	1.97	0.65
1:H:252:ALA:O	1:H:255:ALA:N	2.25	0.65
2:I:1501:DTP:H8	2:I:1501:DTP:O1A	1.97	0.65
1:I:520:GLN:HB3	1:I:524:TYR:OH	1.96	0.65
1:K:1214:LEU:HB3	1:K:1223:GLN:HA	1.78	0.65
1:K:315:GLU:O	1:K:316:VAL:HG22	1.97	0.65
1:K:499:GLN:NE2	1:K:516:ASN:HB3	2.11	0.65
1:L:315:GLU:O	1:L:316:VAL:HG22	1.97	0.65
1:L:520:GLN:HB3	1:L:524:TYR:OH	1.95	0.65
1:M:373:SER:OG	1:M:433:LEU:HB2	1.97	0.65
1:B:405:LEU:HG	1:B:411:VAL:HG23	1.77	0.65
1:B:373:SER:OG	1:B:433:LEU:HB2	1.97	0.65
1:B:389:ILE:CD1	1:B:446:HIS:CE1	2.70	0.65
1:C:520:GLN:HB3	1:C:524:TYR:OH	1.95	0.65
1:I:266:THR:HG21	1:I:271:VAL:HB	1.78	0.65
1:I:405:LEU:HG	1:I:411:VAL:HG23	1.77	0.65
1:I:413:LYS:O	1:I:421:SER:HB3	1.96	0.65
2:K:1501:DTP:H8	2:K:1501:DTP:O1A	1.97	0.65
1:K:517:THR:HG23	1:K:518:LEU:H	1.62	0.65
1:M:405:LEU:HG	1:M:411:VAL:HG23	1.77	0.65
1:O:252:ALA:O	1:O:255:ALA:N	2.25	0.65
1:A:315:GLU:O	1:A:316:VAL:HG22	1.97	0.65
1:A:373:SER:OG	1:A:433:LEU:HB2	1.97	0.65
1:A:464:ASP:O	1:A:468:TYR:CE2	2.49	0.65
1:A:499:GLN:NE2	1:A:516:ASN:HB3	2.11	0.65
1:B:464:ASP:O	1:B:468:TYR:CE2	2.49	0.65
1:B:538:LEU:HG	1:B:571:GLU:OE2	1.97	0.65
1:C:464:ASP:O	1:C:468:TYR:CE2	2.49	0.65
1:E:315:GLU:O	1:E:316:VAL:HG22	1.97	0.65
1:F:378:SER:N	1:F:422:ILE:HD11	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:413:LYS:O	1:G:421:SER:HB3	1.96	0.65
1:G:538:LEU:HG	1:G:571:GLU:OE2	1.97	0.65
1:H:914:VAL:HG22	1:H:917:TYR:O	1.97	0.65
1:I:314:ARG:C	1:I:315:GLU:HG3	2.15	0.65
1:I:482:GLU:O	1:I:485:THR:OG1	2.15	0.65
1:I:11:GLN:HE21	1:I:70:GLU:HB3	1.60	0.65
1:J:313:PRO:CG	1:J:338:TRP:HE1	2.07	0.65
1:J:11:GLN:HE21	1:J:70:GLU:HB3	1.60	0.65
1:L:464:ASP:O	1:L:468:TYR:CE2	2.49	0.65
1:M:315:GLU:O	1:M:316:VAL:HG22	1.97	0.65
1:M:538:LEU:HG	1:M:571:GLU:OE2	1.97	0.65
1:N:315:GLU:O	1:N:316:VAL:HG22	1.97	0.65
1:N:499:GLN:NE2	1:N:516:ASN:HB3	2.11	0.65
1:O:914:VAL:HG22	1:O:917:TYR:O	1.97	0.65
1:P:315:GLU:O	1:P:316:VAL:HG22	1.97	0.65
1:P:413:LYS:O	1:P:421:SER:HB3	1.96	0.65
1:B:315:GLU:O	1:B:316:VAL:HG22	1.97	0.65
1:B:482:GLU:O	1:B:485:THR:OG1	2.15	0.65
1:B:492:LEU:HD11	1:B:561:LEU:HD21	1.78	0.65
1:C:389:ILE:CD1	1:C:446:HIS:CE1	2.70	0.65
2:D:1501:DTP:O2A	2:D:1501:DTP:H8	1.97	0.65
1:E:405:LEU:HG	1:E:411:VAL:HG23	1.77	0.65
1:F:405:LEU:HG	1:F:411:VAL:HG23	1.77	0.65
1:F:482:GLU:O	1:F:485:THR:OG1	2.15	0.65
1:F:517:THR:HG23	1:F:518:LEU:H	1.62	0.65
1:G:266:THR:HG21	1:G:271:VAL:HB	1.78	0.65
1:G:482:GLU:O	1:G:485:THR:OG1	2.15	0.65
1:I:517:THR:HG23	1:I:518:LEU:H	1.62	0.65
1:K:545:PHE:HZ	1:K:565:ALA:HA	1.57	0.65
1:J:1177:TYR:HE2	1:K:916:LYS:HE2	1.61	0.65
1:L:517:THR:HG23	1:L:518:LEU:H	1.62	0.65
1:M:1214:LEU:HB3	1:M:1223:GLN:HA	1.78	0.65
1:M:464:ASP:O	1:M:468:TYR:CE2	2.49	0.65
1:N:373:SER:OG	1:N:433:LEU:HB2	1.97	0.65
1:O:317:LEU:CD2	1:O:341:TRP:CZ2	2.79	0.65
1:P:538:LEU:HG	1:P:571:GLU:OE2	1.97	0.65
1:A:317:LEU:CD2	1:A:341:TRP:CZ2	2.79	0.65
1:C:482:GLU:O	1:C:485:THR:OG1	2.15	0.65
1:C:517:THR:HG23	1:C:518:LEU:H	1.62	0.65
1:C:538:LEU:HG	1:C:571:GLU:OE2	1.97	0.65
1:E:313:PRO:CG	1:E:338:TRP:HE1	2.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:378:SER:N	1:G:422:ILE:HD11	2.10	0.65
1:G:373:SER:OG	1:G:433:LEU:HB2	1.97	0.65
1:H:317:LEU:CD2	1:H:341:TRP:CZ2	2.79	0.65
1:H:492:LEU:HD11	1:H:561:LEU:HD21	1.78	0.65
1:I:315:GLU:O	1:I:316:VAL:HG22	1.97	0.65
1:I:447:TYR:OH	1:I:486:LEU:HD23	1.97	0.65
1:J:315:GLU:O	1:J:316:VAL:HG22	1.97	0.65
1:J:405:LEU:HG	1:J:411:VAL:HG23	1.77	0.65
1:K:314:ARG:C	1:K:315:GLU:HG3	2.16	0.65
1:L:378:SER:N	1:L:422:ILE:HD11	2.10	0.65
1:L:499:GLN:NE2	1:L:516:ASN:HB3	2.11	0.65
1:L:538:LEU:HG	1:L:571:GLU:OE2	1.97	0.65
1:M:482:GLU:O	1:M:485:THR:OG1	2.15	0.65
1:N:464:ASP:O	1:N:468:TYR:CE2	2.49	0.65
1:O:266:THR:HG21	1:O:271:VAL:HB	1.78	0.65
1:P:266:THR:HG21	1:P:271:VAL:HB	1.78	0.65
1:P:482:GLU:O	1:P:485:THR:OG1	2.15	0.65
1:B:1214:LEU:HB3	1:B:1223:GLN:HA	1.78	0.65
2:B:1501:DTP:H8	2:B:1501:DTP:O2A	1.97	0.65
1:B:914:VAL:CG2	1:B:917:TYR:O	2.44	0.65
1:B:914:VAL:HG22	1:B:917:TYR:O	1.97	0.65
1:D:314:ARG:C	1:D:315:GLU:HG3	2.15	0.65
1:F:315:GLU:O	1:F:316:VAL:HG22	1.97	0.65
1:F:637:LEU:O	1:F:638:GLU:CB	2.43	0.65
1:H:266:THR:HG21	1:H:271:VAL:HB	1.78	0.65
1:H:317:LEU:C	1:H:318:THR:HG1	1.94	0.65
2:M:1501:DTP:O1A	2:M:1501:DTP:H8	1.97	0.65
1:M:492:LEU:HD11	1:M:561:LEU:HD21	1.78	0.65
1:M:914:VAL:HG22	1:M:917:TYR:O	1.97	0.65
1:M:914:VAL:CG2	1:M:917:TYR:O	2.44	0.65
2:N:1501:DTP:O1A	2:N:1501:DTP:H8	1.97	0.65
1:N:317:LEU:CD2	1:N:341:TRP:CZ2	2.79	0.65
1:P:378:SER:N	1:P:422:ILE:HD11	2.10	0.65
1:C:1214:LEU:HB3	1:C:1223:GLN:HA	1.78	0.65
1:C:447:TYR:OH	1:C:486:LEU:HD23	1.97	0.65
1:D:383:THR:HG23	1:D:419:THR:CA	2.27	0.65
1:D:545:PHE:HZ	1:D:565:ALA:HA	1.57	0.65
1:E:482:GLU:O	1:E:485:THR:OG1	2.15	0.65
1:F:314:ARG:C	1:F:315:GLU:HG3	2.15	0.65
1:G:451:LYS:HD3	1:G:486:LEU:CD2	2.26	0.65
1:I:373:SER:OG	1:I:433:LEU:HB2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:482:GLU:O	1:J:485:THR:OG1	2.15	0.65
1:L:1214:LEU:HB3	1:L:1223:GLN:HA	1.78	0.65
1:L:383:THR:HG23	1:L:419:THR:CA	2.27	0.65
1:N:447:TYR:OH	1:N:486:LEU:HD23	1.97	0.65
1:O:317:LEU:C	1:O:318:THR:HG1	1.94	0.65
1:O:538:LEU:HG	1:O:571:GLU:OE2	1.97	0.65
1:P:373:SER:OG	1:P:433:LEU:HB2	1.97	0.65
2:A:1501:DTP:H8	2:A:1501:DTP:O2A	1.97	0.64
1:A:447:TYR:OH	1:A:486:LEU:HD23	1.97	0.64
1:A:482:GLU:O	1:A:485:THR:OG1	2.15	0.64
1:B:499:GLN:NE2	1:B:516:ASN:HB3	2.11	0.64
1:E:378:SER:N	1:E:422:ILE:HD11	2.10	0.64
1:E:447:TYR:OH	1:E:486:LEU:HD23	1.97	0.64
1:F:373:SER:OG	1:F:433:LEU:HB2	1.97	0.64
1:H:378:SER:N	1:H:422:ILE:HD11	2.10	0.64
1:H:538:LEU:HG	1:H:571:GLU:OE2	1.97	0.64
1:J:447:TYR:OH	1:J:486:LEU:HD23	1.97	0.64
1:K:413:LYS:O	1:K:421:SER:HB3	1.95	0.64
1:K:383:THR:HG23	1:K:419:THR:CA	2.27	0.64
1:M:499:GLN:NE2	1:M:516:ASN:HB3	2.11	0.64
1:O:492:LEU:HD11	1:O:561:LEU:HD21	1.78	0.64
1:P:451:LYS:HD3	1:P:486:LEU:CD2	2.26	0.64
1:A:378:SER:N	1:A:422:ILE:HD11	2.10	0.64
1:A:538:LEU:HG	1:A:571:GLU:OE2	1.97	0.64
2:C:1501:DTP:H8	2:C:1501:DTP:O2A	1.97	0.64
1:D:378:SER:N	1:D:422:ILE:HD11	2.10	0.64
1:E:373:SER:OG	1:E:433:LEU:HB2	1.97	0.64
1:E:520:GLN:HB3	1:E:524:TYR:OH	1.95	0.64
1:E:53:ASP:O	1:E:57:GLY:N	2.27	0.64
1:F:447:TYR:OH	1:F:486:LEU:HD23	1.97	0.64
1:F:547:PRO:HB2	1:F:603:ILE:HA	1.80	0.64
1:G:547:PRO:HB2	1:G:603:ILE:HA	1.80	0.64
1:H:373:SER:OG	1:H:433:LEU:HB2	1.97	0.64
1:I:378:SER:N	1:I:422:ILE:HD11	2.10	0.64
1:I:499:GLN:NE2	1:I:516:ASN:HB3	2.11	0.64
1:J:492:LEU:HD11	1:J:561:LEU:HD21	1.78	0.64
1:J:520:GLN:HB3	1:J:524:TYR:OH	1.96	0.64
1:L:482:GLU:O	1:L:485:THR:OG1	2.15	0.64
1:M:313:PRO:CG	1:M:338:TRP:HE1	2.07	0.64
1:P:517:THR:HG23	1:P:518:LEU:H	1.62	0.64
1:P:545:PHE:HZ	1:P:565:ALA:HA	1.57	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:989:SER:HB2	1:A:1027:ASN:HD22	1.63	0.64
1:C:373:SER:OG	1:C:433:LEU:HB2	1.97	0.64
1:C:383:THR:HG23	1:C:419:THR:CA	2.27	0.64
2:E:1501:DTP:O2A	2:E:1501:DTP:H8	1.96	0.64
1:F:499:GLN:NE2	1:F:516:ASN:HB3	2.11	0.64
1:F:635:VAL:HB	1:F:641:ASP:OD1	1.98	0.64
1:I:547:PRO:HB2	1:I:603:ILE:HA	1.80	0.64
1:I:637:LEU:O	1:I:638:GLU:CB	2.43	0.64
1:J:378:SER:N	1:J:422:ILE:HD11	2.10	0.64
1:J:383:THR:HG23	1:J:419:THR:CA	2.27	0.64
1:J:373:SER:OG	1:J:433:LEU:HB2	1.97	0.64
1:K:382:PRO:CA	1:K:419:THR:HG22	2.23	0.64
1:L:373:SER:OG	1:L:433:LEU:HB2	1.97	0.64
1:L:492:LEU:HD11	1:L:561:LEU:HD21	1.78	0.64
1:N:482:GLU:O	1:N:485:THR:OG1	2.15	0.64
1:O:373:SER:OG	1:O:433:LEU:HB2	1.97	0.64
1:P:313:PRO:CG	1:P:338:TRP:HE1	2.07	0.64
1:P:547:PRO:HB2	1:P:603:ILE:HA	1.80	0.64
1:B:313:PRO:CG	1:B:338:TRP:HE1	2.08	0.64
1:E:383:THR:HG23	1:E:419:THR:CA	2.27	0.64
1:E:548:LYS:HZ2	1:E:601:GLN:N	1.96	0.64
1:G:383:THR:HG23	1:G:419:THR:CA	2.27	0.64
1:G:517:THR:HG23	1:G:518:LEU:H	1.62	0.64
1:H:547:PRO:HB2	1:H:603:ILE:HA	1.80	0.64
1:I:635:VAL:HB	1:I:641:ASP:OD1	1.98	0.64
1:J:635:VAL:HB	1:J:641:ASP:OD1	1.98	0.64
1:K:378:SER:N	1:K:422:ILE:HD11	2.11	0.64
1:L:447:TYR:OH	1:L:486:LEU:HD23	1.97	0.64
1:N:538:LEU:HG	1:N:571:GLU:OE2	1.97	0.64
1:N:989:SER:HB2	1:N:1027:ASN:HD22	1.63	0.64
1:O:378:SER:N	1:O:422:ILE:HD11	2.10	0.64
1:O:547:PRO:HB2	1:O:603:ILE:HA	1.80	0.64
1:P:383:THR:HG23	1:P:419:THR:CA	2.27	0.64
1:P:447:TYR:OH	1:P:486:LEU:HD23	1.97	0.64
1:A:53:ASP:O	1:A:57:GLY:N	2.27	0.64
1:C:499:GLN:NE2	1:C:516:ASN:HB3	2.11	0.64
1:D:413:LYS:O	1:D:421:SER:HB3	1.96	0.64
1:D:538:LEU:HG	1:D:571:GLU:OE2	1.97	0.64
1:E:104:ARG:HA	1:E:107:ILE:HG22	1.80	0.64
1:E:492:LEU:HD11	1:E:561:LEU:HD21	1.78	0.64
1:E:635:VAL:HB	1:E:641:ASP:OD1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:914:VAL:HG22	1:F:917:TYR:O	1.97	0.64
1:G:447:TYR:OH	1:G:486:LEU:HD23	1.97	0.64
1:G:545:PHE:HZ	1:G:565:ALA:HA	1.58	0.64
1:H:989:SER:HB2	1:H:1027:ASN:HD22	1.63	0.64
1:H:482:GLU:O	1:H:485:THR:OG1	2.15	0.64
1:I:538:LEU:HG	1:I:571:GLU:OE2	1.97	0.64
2:J:1501:DTP:O1A	2:J:1501:DTP:H8	1.97	0.64
1:K:464:ASP:O	1:K:468:TYR:HE2	1.81	0.64
2:L:1501:DTP:O1A	2:L:1501:DTP:H8	1.97	0.64
1:L:464:ASP:O	1:L:468:TYR:HE2	1.81	0.64
1:M:989:SER:HB2	1:M:1027:ASN:HD22	1.63	0.64
1:N:378:SER:N	1:N:422:ILE:HD11	2.10	0.64
2:O:1501:DTP:H8	2:O:1501:DTP:O1A	1.96	0.64
1:O:482:GLU:O	1:O:485:THR:OG1	2.15	0.64
1:O:989:SER:HB2	1:O:1027:ASN:HD22	1.63	0.64
1:A:547:PRO:HB2	1:A:603:ILE:HA	1.80	0.64
1:B:464:ASP:O	1:B:468:TYR:HE2	1.81	0.64
1:B:989:SER:HB2	1:B:1027:ASN:HD22	1.63	0.64
1:C:464:ASP:O	1:C:468:TYR:HE2	1.81	0.64
1:D:464:ASP:O	1:D:468:TYR:HE2	1.81	0.64
1:G:313:PRO:CG	1:G:338:TRP:HE1	2.08	0.64
1:I:104:ARG:HA	1:I:107:ILE:HG22	1.80	0.64
1:I:914:VAL:HG22	1:I:917:TYR:O	1.97	0.64
1:J:548:LYS:HZ2	1:J:601:GLN:N	1.96	0.64
1:K:104:ARG:HA	1:K:107:ILE:HG22	1.80	0.64
1:K:538:LEU:HG	1:K:571:GLU:OE2	1.97	0.64
1:L:314:ARG:C	1:L:315:GLU:HG3	2.16	0.64
1:M:464:ASP:O	1:M:468:TYR:HE2	1.81	0.64
1:N:53:ASP:O	1:N:57:GLY:N	2.27	0.64
1:B:447:TYR:OH	1:B:486:LEU:HD23	1.97	0.64
1:D:382:PRO:CA	1:D:419:THR:HG22	2.24	0.64
1:D:373:SER:OG	1:D:433:LEU:HB2	1.97	0.64
1:F:383:THR:HG23	1:F:419:THR:CA	2.27	0.64
2:H:1501:DTP:H8	2:H:1501:DTP:O2A	1.96	0.64
1:H:383:THR:HG23	1:H:419:THR:CA	2.27	0.64
1:H:447:TYR:OH	1:H:486:LEU:HD23	1.97	0.64
1:J:104:ARG:HA	1:J:107:ILE:HG22	1.80	0.64
1:K:165:CYS:SG	1:K:178:ILE:HD13	2.38	0.64
1:L:104:ARG:HA	1:L:107:ILE:HG22	1.80	0.64
1:L:208:THR:OG1	1:L:210:ARG:NH1	2.31	0.64
1:N:165:CYS:SG	1:N:178:ILE:HD13	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:547:PRO:HB2	1:N:603:ILE:HA	1.80	0.64
1:A:121:ALA:HB1	1:B:276:SER:CB	2.20	0.64
1:A:165:CYS:SG	1:A:178:ILE:HD13	2.38	0.64
1:A:333:ASP:OD2	1:B:403:ASN:ND2	2.31	0.64
1:C:208:THR:OG1	1:C:210:ARG:NH1	2.31	0.64
1:C:492:LEU:HD11	1:C:561:LEU:HD21	1.78	0.64
1:C:587:ARG:HG3	1:C:588:VAL:H	1.63	0.64
1:D:104:ARG:HA	1:D:107:ILE:HG22	1.80	0.64
1:D:165:CYS:SG	1:D:178:ILE:HD13	2.38	0.64
1:D:208:THR:OG1	1:D:210:ARG:NH1	2.31	0.64
1:D:635:VAL:HB	1:D:641:ASP:OD1	1.98	0.64
1:E:464:ASP:O	1:E:468:TYR:HE2	1.81	0.64
1:E:538:LEU:HG	1:E:571:GLU:OE2	1.97	0.64
1:E:547:PRO:HB2	1:E:603:ILE:HA	1.80	0.64
1:F:104:ARG:HA	1:F:107:ILE:HG22	1.80	0.64
1:F:451:LYS:HD3	1:F:486:LEU:CD2	2.26	0.64
1:F:538:LEU:HG	1:F:571:GLU:OE2	1.97	0.64
1:G:548:LYS:NZ	1:G:601:GLN:CA	2.61	0.64
1:G:914:VAL:HG22	1:G:917:TYR:O	1.97	0.64
1:H:165:CYS:SG	1:H:178:ILE:HD13	2.38	0.64
1:H:386:LEU:CD1	1:H:420:ILE:HD13	2.28	0.64
1:J:989:SER:HB2	1:J:1027:ASN:HD22	1.63	0.64
1:J:464:ASP:O	1:J:468:TYR:HE2	1.81	0.64
1:K:208:THR:OG1	1:K:210:ARG:NH1	2.31	0.64
1:K:373:SER:OG	1:K:433:LEU:HB2	1.97	0.64
1:K:447:TYR:OH	1:K:486:LEU:HD23	1.97	0.64
1:K:635:VAL:HB	1:K:641:ASP:OD1	1.98	0.64
1:L:635:VAL:HB	1:L:641:ASP:OD1	1.98	0.64
1:M:517:THR:HG23	1:M:518:LEU:H	1.62	0.64
1:N:464:ASP:O	1:N:468:TYR:HE2	1.81	0.64
1:O:165:CYS:SG	1:O:178:ILE:HD13	2.38	0.64
1:O:208:THR:OG1	1:O:210:ARG:NH1	2.31	0.64
1:O:386:LEU:CD1	1:O:420:ILE:HD13	2.28	0.64
1:O:383:THR:HG23	1:O:419:THR:CA	2.27	0.64
1:O:447:TYR:OH	1:O:486:LEU:HD23	1.97	0.64
1:O:635:VAL:HB	1:O:641:ASP:OD1	1.98	0.64
1:B:383:THR:HG23	1:B:419:THR:CA	2.27	0.64
1:B:517:THR:HG23	1:B:518:LEU:H	1.62	0.64
1:C:989:SER:HB2	1:C:1027:ASN:HD22	1.63	0.64
1:C:104:ARG:HA	1:C:107:ILE:HG22	1.80	0.64
1:C:437:TYR:O	1:C:441:ARG:NH1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:482:GLU:O	1:D:485:THR:OG1	2.15	0.64
1:E:208:THR:OG1	1:E:210:ARG:NH1	2.31	0.64
1:E:989:SER:HB2	1:E:1027:ASN:HD22	1.63	0.64
1:G:104:ARG:HA	1:G:107:ILE:HG22	1.80	0.64
1:H:208:THR:OG1	1:H:210:ARG:NH1	2.31	0.64
1:H:635:VAL:HB	1:H:641:ASP:OD1	1.98	0.64
1:J:437:TYR:O	1:J:441:ARG:NH1	2.31	0.64
1:J:538:LEU:HG	1:J:571:GLU:OE2	1.97	0.64
1:J:547:PRO:HB2	1:J:603:ILE:HA	1.80	0.64
1:K:989:SER:HB2	1:K:1027:ASN:HD22	1.63	0.64
1:M:383:THR:HG23	1:M:419:THR:CA	2.27	0.64
1:M:447:TYR:OH	1:M:486:LEU:HD23	1.97	0.64
1:O:499:GLN:HB2	1:O:520:GLN:HE22	1.63	0.64
1:P:989:SER:HB2	1:P:1027:ASN:HD22	1.63	0.64
1:P:548:LYS:NZ	1:P:601:GLN:CA	2.61	0.64
1:P:914:VAL:HG22	1:P:917:TYR:O	1.97	0.64
1:A:386:LEU:CD1	1:A:420:ILE:HD13	2.28	0.64
1:B:437:TYR:O	1:B:441:ARG:NH1	2.31	0.64
1:D:989:SER:HB2	1:D:1027:ASN:HD22	1.63	0.64
1:D:447:TYR:OH	1:D:486:LEU:HD23	1.97	0.64
1:D:914:VAL:HG22	1:D:917:TYR:O	1.97	0.64
1:E:165:CYS:SG	1:E:178:ILE:HD13	2.38	0.64
1:E:437:TYR:O	1:E:441:ARG:NH1	2.31	0.64
1:F:208:THR:OG1	1:F:210:ARG:NH1	2.31	0.64
1:G:989:SER:HB2	1:G:1027:ASN:HD22	1.63	0.64
1:H:104:ARG:HA	1:H:107:ILE:HG22	1.80	0.64
1:H:315:GLU:O	1:H:316:VAL:HG22	1.97	0.64
1:I:383:THR:HG23	1:I:419:THR:CA	2.27	0.64
1:I:548:LYS:HZ2	1:I:601:GLN:N	1.96	0.64
1:J:208:THR:OG1	1:J:210:ARG:NH1	2.31	0.64
1:N:386:LEU:CD1	1:N:420:ILE:HD13	2.28	0.64
1:O:315:GLU:O	1:O:316:VAL:HG22	1.97	0.64
1:P:104:ARG:HA	1:P:107:ILE:HG22	1.80	0.64
1:A:475:LEU:HD23	1:A:478:ILE:HD12	1.80	0.63
1:A:517:THR:HG23	1:A:518:LEU:H	1.62	0.63
1:B:208:THR:OG1	1:B:210:ARG:NH1	2.31	0.63
1:D:603:ILE:HD11	1:D:635:VAL:CG1	2.29	0.63
1:H:499:GLN:HB2	1:H:520:GLN:HE22	1.64	0.63
1:J:165:CYS:SG	1:J:178:ILE:HD13	2.38	0.63
1:K:437:TYR:O	1:K:441:ARG:NH1	2.31	0.63
1:K:482:GLU:O	1:K:485:THR:OG1	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:603:ILE:HD11	1:K:635:VAL:CG1	2.29	0.63
1:L:587:ARG:HG3	1:L:588:VAL:H	1.63	0.63
1:M:165:CYS:SG	1:M:178:ILE:HD13	2.38	0.63
1:M:437:TYR:O	1:M:441:ARG:NH1	2.31	0.63
1:O:104:ARG:HA	1:O:107:ILE:HG22	1.80	0.63
1:A:208:THR:OG1	1:A:210:ARG:NH1	2.31	0.63
1:A:635:VAL:HB	1:A:641:ASP:OD1	1.98	0.63
1:A:914:VAL:HG22	1:A:917:TYR:O	1.97	0.63
1:B:165:CYS:SG	1:B:178:ILE:HD13	2.38	0.63
1:B:603:ILE:HD11	1:B:635:VAL:CG1	2.29	0.63
1:D:437:TYR:O	1:D:441:ARG:NH1	2.31	0.63
1:F:165:CYS:SG	1:F:178:ILE:HD13	2.38	0.63
1:I:208:THR:OG1	1:I:210:ARG:NH1	2.31	0.63
1:J:386:LEU:CD1	1:J:420:ILE:HD13	2.28	0.63
1:K:914:VAL:HG22	1:K:917:TYR:O	1.97	0.63
1:L:165:CYS:SG	1:L:178:ILE:HD13	2.38	0.63
1:L:437:TYR:O	1:L:441:ARG:NH1	2.31	0.63
1:M:208:THR:OG1	1:M:210:ARG:NH1	2.31	0.63
1:M:603:ILE:HD11	1:M:635:VAL:CG1	2.29	0.63
1:N:517:THR:HG23	1:N:518:LEU:H	1.62	0.63
1:A:548:LYS:NZ	1:A:601:GLN:CA	2.61	0.63
1:C:165:CYS:SG	1:C:178:ILE:HD13	2.38	0.63
1:E:386:LEU:CD1	1:E:420:ILE:HD13	2.28	0.63
1:F:548:LYS:HZ2	1:F:601:GLN:N	1.96	0.63
1:G:208:THR:OG1	1:G:210:ARG:NH1	2.31	0.63
1:G:386:LEU:CD1	1:G:420:ILE:HD13	2.28	0.63
1:H:552:ASN:HB3	1:H:1226:TYR:HE1	1.64	0.63
1:H:603:ILE:HD11	1:H:635:VAL:CG1	2.29	0.63
1:J:411:VAL:O	1:J:423:PRO:HB3	1.99	0.63
1:L:989:SER:HB2	1:L:1027:ASN:HD22	1.63	0.63
1:L:552:ASN:HB3	1:L:1226:TYR:HE1	1.64	0.63
1:N:104:ARG:HA	1:N:107:ILE:HG22	1.80	0.63
1:N:208:THR:OG1	1:N:210:ARG:NH1	2.31	0.63
1:N:383:THR:HG23	1:N:419:THR:CA	2.27	0.63
1:N:475:LEU:HD23	1:N:478:ILE:HD12	1.80	0.63
1:O:603:ILE:HD11	1:O:635:VAL:CG1	2.29	0.63
1:P:208:THR:OG1	1:P:210:ARG:NH1	2.31	0.63
1:A:383:THR:HG23	1:A:419:THR:CA	2.27	0.63
1:A:587:ARG:HG3	1:A:588:VAL:H	1.63	0.63
1:B:104:ARG:HA	1:B:107:ILE:HG22	1.80	0.63
1:B:378:SER:N	1:B:422:ILE:HD11	2.10	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:552:ASN:HB3	1:C:1226:TYR:HE1	1.64	0.63
1:C:548:LYS:HZ2	1:C:601:GLN:N	1.96	0.63
1:C:635:VAL:HB	1:C:641:ASP:OD1	1.98	0.63
1:E:411:VAL:O	1:E:423:PRO:HB3	1.99	0.63
1:F:41:SER:HB3	1:F:44:GLU:HG2	1.81	0.63
1:G:548:LYS:HZ2	1:G:601:GLN:N	1.96	0.63
1:I:437:TYR:O	1:I:441:ARG:NH1	2.31	0.63
1:I:451:LYS:HD3	1:I:486:LEU:CD2	2.26	0.63
1:M:104:ARG:HA	1:M:107:ILE:HG22	1.80	0.63
1:M:378:SER:N	1:M:422:ILE:HD11	2.10	0.63
1:M:547:PRO:HB2	1:M:603:ILE:HA	1.80	0.63
1:N:914:VAL:HG22	1:N:917:TYR:O	1.97	0.63
1:O:552:ASN:HB3	1:O:1226:TYR:HE1	1.64	0.63
1:P:386:LEU:CD1	1:P:420:ILE:HD13	2.28	0.63
1:B:547:PRO:HB2	1:B:603:ILE:HA	1.80	0.63
1:C:41:SER:HB3	1:C:44:GLU:HG2	1.81	0.63
1:F:989:SER:HB2	1:F:1027:ASN:HD22	1.63	0.63
1:F:437:TYR:O	1:F:441:ARG:NH1	2.31	0.63
1:F:603:ILE:HD11	1:F:635:VAL:CG1	2.29	0.63
1:G:552:ASN:HB3	1:G:1226:TYR:HE1	1.63	0.63
2:G:1501:DTP:H8	2:G:1501:DTP:O2A	1.97	0.63
1:H:314:ARG:C	1:H:315:GLU:HG3	2.15	0.63
1:I:165:CYS:SG	1:I:178:ILE:HD13	2.38	0.63
1:I:41:SER:HB3	1:I:44:GLU:HG2	1.81	0.63
1:I:475:LEU:HD23	1:I:478:ILE:HD12	1.80	0.63
1:I:603:ILE:HD11	1:I:635:VAL:CG1	2.29	0.63
1:J:914:VAL:HG22	1:J:917:TYR:O	1.97	0.63
1:K:548:LYS:HZ2	1:K:601:GLN:N	1.96	0.63
1:L:41:SER:HB3	1:L:44:GLU:HG2	1.81	0.63
1:N:548:LYS:NZ	1:N:601:GLN:CA	2.61	0.63
1:N:635:VAL:HB	1:N:641:ASP:OD1	1.98	0.63
1:P:552:ASN:HB3	1:P:1226:TYR:HE1	1.64	0.63
1:A:104:ARG:HA	1:A:107:ILE:HG22	1.80	0.63
1:B:386:LEU:CD1	1:B:420:ILE:HD13	2.28	0.63
1:B:475:LEU:HD23	1:B:478:ILE:HD12	1.80	0.63
1:D:411:VAL:O	1:D:423:PRO:HB3	1.99	0.63
1:D:386:LEU:CD1	1:D:420:ILE:HD13	2.28	0.63
1:F:475:LEU:HD23	1:F:478:ILE:HD12	1.80	0.63
1:F:499:GLN:HB2	1:F:520:GLN:HE22	1.63	0.63
1:G:635:VAL:HB	1:G:641:ASP:OD1	1.98	0.63
1:H:437:TYR:O	1:H:441:ARG:NH1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:198:LYS:NZ	1:P:222:HIS:CG	2.66	0.63
1:I:499:GLN:HB2	1:I:520:GLN:HE22	1.63	0.63
1:K:411:VAL:O	1:K:423:PRO:HB3	1.99	0.63
1:K:547:PRO:HB2	1:K:603:ILE:HA	1.80	0.63
1:L:411:VAL:O	1:L:423:PRO:HB3	1.99	0.63
1:L:547:PRO:HB2	1:L:603:ILE:HA	1.80	0.63
1:L:914:VAL:HG22	1:L:917:TYR:O	1.97	0.63
1:M:386:LEU:CD1	1:M:420:ILE:HD13	2.28	0.63
1:M:587:ARG:HG3	1:M:588:VAL:H	1.63	0.63
1:N:587:ARG:HG3	1:N:588:VAL:H	1.63	0.63
1:O:437:TYR:O	1:O:441:ARG:NH1	2.31	0.63
1:P:548:LYS:HZ2	1:P:601:GLN:N	1.96	0.63
1:P:635:VAL:HB	1:P:641:ASP:OD1	1.98	0.63
1:A:437:TYR:O	1:A:441:ARG:NH1	2.31	0.63
1:B:587:ARG:HG3	1:B:588:VAL:H	1.63	0.63
1:C:371:ARG:HG3	1:C:390:TRP:CD1	2.34	0.63
1:D:548:LYS:HZ2	1:D:601:GLN:N	1.96	0.63
1:D:547:PRO:HB2	1:D:603:ILE:HA	1.80	0.63
1:E:378:SER:H	1:E:422:ILE:HD13	1.61	0.63
1:E:499:GLN:HB2	1:E:520:GLN:HE22	1.63	0.63
1:E:914:VAL:HG22	1:E:917:TYR:O	1.97	0.63
1:G:411:VAL:O	1:G:423:PRO:HB3	1.99	0.63
1:J:41:SER:HB3	1:J:44:GLU:HG2	1.81	0.63
1:J:499:GLN:HB2	1:J:520:GLN:HE22	1.63	0.63
1:K:386:LEU:CD1	1:K:420:ILE:HD13	2.28	0.63
1:L:371:ARG:HG3	1:L:390:TRP:CD1	2.34	0.63
1:L:548:LYS:HZ2	1:L:601:GLN:N	1.96	0.63
1:M:475:LEU:HD23	1:M:478:ILE:HD12	1.80	0.63
2:P:1501:DTP:O1A	2:P:1501:DTP:H8	1.97	0.63
1:P:411:VAL:O	1:P:423:PRO:HB3	1.99	0.63
1:A:252:ALA:O	1:A:255:ALA:N	2.25	0.63
1:C:411:VAL:O	1:C:423:PRO:HB3	1.99	0.63
1:E:475:LEU:HD23	1:E:478:ILE:HD12	1.80	0.63
1:G:165:CYS:SG	1:G:178:ILE:HD13	2.38	0.63
1:I:989:SER:HB2	1:I:1027:ASN:HD22	1.63	0.63
1:K:371:ARG:HG3	1:K:390:TRP:CD1	2.34	0.63
1:L:458:LEU:CB	1:L:587:ARG:HH21	2.12	0.63
1:N:41:SER:HB3	1:N:44:GLU:HG2	1.81	0.63
1:O:314:ARG:C	1:O:315:GLU:HG3	2.16	0.63
1:P:165:CYS:SG	1:P:178:ILE:HD13	2.38	0.63
1:A:41:SER:HB3	1:A:44:GLU:HG2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:LEU:CB	1:A:587:ARG:HH21	2.12	0.63
1:A:603:ILE:HD11	1:A:635:VAL:CG1	2.29	0.63
1:B:517:THR:HA	1:B:520:GLN:CD	2.20	0.63
1:C:914:VAL:HG22	1:C:917:TYR:O	1.97	0.63
1:D:371:ARG:HG3	1:D:390:TRP:CD1	2.34	0.63
1:D:499:GLN:HB2	1:D:520:GLN:HE22	1.63	0.63
1:E:913:PRO:O	1:E:914:VAL:HG12	1.99	0.63
1:G:475:LEU:HD23	1:G:478:ILE:HD12	1.80	0.63
1:G:637:LEU:O	1:G:638:GLU:CB	2.43	0.63
1:H:475:LEU:HD23	1:H:478:ILE:HD12	1.80	0.63
1:J:475:LEU:HD23	1:J:478:ILE:HD12	1.80	0.63
1:J:913:PRO:O	1:J:914:VAL:HG12	1.99	0.63
1:K:499:GLN:HB2	1:K:520:GLN:HE22	1.63	0.63
1:N:252:ALA:O	1:N:255:ALA:N	2.25	0.63
1:N:437:TYR:O	1:N:441:ARG:NH1	2.31	0.63
1:N:458:LEU:CB	1:N:587:ARG:HH21	2.12	0.63
1:N:216:ASN:ND2	1:O:194:GLU:OE2	2.32	0.63
1:O:915:TYR:O	1:O:916:LYS:CB	2.47	0.63
1:A:371:ARG:HG3	1:A:390:TRP:CD1	2.34	0.62
1:A:913:PRO:O	1:A:914:VAL:HG12	1.99	0.62
1:B:838:ARG:HB2	1:B:847:VAL:HB	1.81	0.62
1:C:499:GLN:HB2	1:C:520:GLN:HE22	1.64	0.62
1:C:547:PRO:HB2	1:C:603:ILE:HA	1.80	0.62
1:D:41:SER:HB3	1:D:44:GLU:HG2	1.81	0.62
1:E:41:SER:HB3	1:E:44:GLU:HG2	1.81	0.62
1:F:371:ARG:HG3	1:F:390:TRP:CD1	2.34	0.62
1:F:386:LEU:CD1	1:F:420:ILE:HD13	2.28	0.62
1:F:53:ASP:O	1:F:57:GLY:N	2.27	0.62
1:F:548:LYS:NZ	1:F:601:GLN:CA	2.61	0.62
1:G:41:SER:HB3	1:G:44:GLU:HG2	1.81	0.62
1:G:437:TYR:O	1:G:441:ARG:NH1	2.31	0.62
1:H:41:SER:HB3	1:H:44:GLU:HG2	1.81	0.62
1:H:838:ARG:HB2	1:H:847:VAL:HB	1.81	0.62
1:H:915:TYR:O	1:H:916:LYS:CB	2.47	0.62
1:I:552:ASN:HB3	1:I:1226:TYR:HE1	1.64	0.62
1:J:371:ARG:HG3	1:J:390:TRP:CD1	2.34	0.62
1:L:499:GLN:HB2	1:L:520:GLN:HE22	1.63	0.62
1:M:517:THR:HA	1:M:520:GLN:CD	2.20	0.62
1:N:371:ARG:HG3	1:N:390:TRP:CD1	2.34	0.62
1:N:603:ILE:HD11	1:N:635:VAL:CG1	2.29	0.62
1:N:913:PRO:O	1:N:914:VAL:HG12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:475:LEU:HD23	1:O:478:ILE:HD12	1.80	0.62
1:O:838:ARG:HB2	1:O:847:VAL:HB	1.81	0.62
1:P:371:ARG:HG3	1:P:390:TRP:CD1	2.34	0.62
1:P:41:SER:HB3	1:P:44:GLU:HG2	1.81	0.62
1:P:475:LEU:HD23	1:P:478:ILE:HD12	1.80	0.62
1:P:499:GLN:HB2	1:P:520:GLN:HE22	1.63	0.62
1:A:411:VAL:O	1:A:423:PRO:HB3	1.99	0.62
1:A:517:THR:HA	1:A:520:GLN:CD	2.20	0.62
1:B:41:SER:HB3	1:B:44:GLU:HG2	1.81	0.62
1:C:458:LEU:CB	1:C:587:ARG:HH21	2.12	0.62
1:D:194:GLU:OE2	1:E:216:ASN:ND2	2.33	0.62
1:E:371:ARG:HG3	1:E:390:TRP:CD1	2.34	0.62
1:F:464:ASP:O	1:F:468:TYR:HE2	1.81	0.62
1:G:371:ARG:HG3	1:G:390:TRP:CD1	2.34	0.62
1:G:458:LEU:CB	1:G:587:ARG:HH21	2.12	0.62
1:G:499:GLN:HB2	1:G:520:GLN:HE22	1.63	0.62
1:I:371:ARG:HG3	1:I:390:TRP:CD1	2.34	0.62
1:J:518:LEU:HD22	1:J:643:TYR:CE1	2.22	0.62
1:K:913:PRO:O	1:K:914:VAL:HG12	1.99	0.62
1:M:552:ASN:HB3	1:M:1226:TYR:HE1	1.64	0.62
1:M:838:ARG:HB2	1:M:847:VAL:HB	1.81	0.62
1:N:411:VAL:O	1:N:423:PRO:HB3	1.99	0.62
1:P:437:TYR:O	1:P:441:ARG:NH1	2.31	0.62
1:P:458:LEU:CB	1:P:587:ARG:HH21	2.12	0.62
1:P:637:LEU:O	1:P:638:GLU:CB	2.43	0.62
1:A:499:GLN:HB2	1:A:520:GLN:HE22	1.63	0.62
1:A:548:LYS:HG2	1:A:601:GLN:HA	1.81	0.62
1:B:499:GLN:HB2	1:B:520:GLN:HE22	1.63	0.62
1:B:548:LYS:HG2	1:B:601:GLN:HA	1.81	0.62
1:C:517:THR:HA	1:C:520:GLN:CD	2.20	0.62
1:D:913:PRO:O	1:D:914:VAL:HG12	1.99	0.62
1:F:312:LEU:CD2	1:F:313:PRO:HD2	2.30	0.62
1:G:517:THR:HA	1:G:520:GLN:CD	2.19	0.62
1:I:411:VAL:O	1:I:423:PRO:HB3	1.99	0.62
1:K:41:SER:HB3	1:K:44:GLU:HG2	1.81	0.62
1:M:41:SER:HB3	1:M:44:GLU:HG2	1.81	0.62
1:M:499:GLN:HB2	1:M:520:GLN:HE22	1.63	0.62
1:N:548:LYS:HG2	1:N:601:GLN:HA	1.81	0.62
1:O:41:SER:HB3	1:O:44:GLU:HG2	1.81	0.62
1:A:915:TYR:O	1:A:916:LYS:CB	2.47	0.62
1:C:603:ILE:HD11	1:C:635:VAL:CG1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:552:ASN:HB3	1:E:1226:TYR:HE1	1.64	0.62
1:E:451:LYS:HD3	1:E:486:LEU:CD2	2.26	0.62
1:F:552:ASN:HB3	1:F:1226:TYR:HE1	1.64	0.62
1:F:411:VAL:O	1:F:423:PRO:HB3	1.99	0.62
1:I:198:LYS:HZ1	1:P:222:HIS:CG	2.17	0.62
1:I:53:ASP:O	1:I:57:GLY:N	2.27	0.62
1:J:552:ASN:HB3	1:J:1226:TYR:HE1	1.64	0.62
1:L:312:LEU:CD2	1:L:313:PRO:HD2	2.30	0.62
1:M:548:LYS:HG2	1:M:601:GLN:HA	1.81	0.62
1:N:517:THR:HA	1:N:520:GLN:CD	2.19	0.62
1:N:915:TYR:O	1:N:916:LYS:CB	2.47	0.62
1:O:411:VAL:O	1:O:423:PRO:HB3	1.99	0.62
1:P:517:THR:HA	1:P:520:GLN:CD	2.20	0.62
1:B:552:ASN:HB3	1:B:1226:TYR:HE1	1.64	0.62
1:D:552:ASN:HB3	1:D:1226:TYR:HE1	1.64	0.62
1:G:603:ILE:HD11	1:G:635:VAL:CG1	2.29	0.62
1:H:548:LYS:HZ2	1:H:601:GLN:N	1.97	0.62
1:I:312:LEU:CD2	1:I:313:PRO:HD2	2.30	0.62
1:I:386:LEU:CD1	1:I:420:ILE:HD13	2.28	0.62
1:K:378:SER:H	1:K:422:ILE:HD13	1.62	0.62
1:L:517:THR:HA	1:L:520:GLN:CD	2.19	0.62
1:M:635:VAL:HB	1:M:641:ASP:OD1	1.98	0.62
1:N:313:PRO:CG	1:N:338:TRP:HE1	2.07	0.62
1:O:587:ARG:HG3	1:O:588:VAL:H	1.63	0.62
1:O:548:LYS:HZ2	1:O:601:GLN:N	1.97	0.62
1:P:603:ILE:HD11	1:P:635:VAL:CG1	2.29	0.62
1:A:552:ASN:HB3	1:A:1226:TYR:HE1	1.64	0.62
1:B:411:VAL:O	1:B:423:PRO:HB3	1.99	0.62
1:B:548:LYS:HZ2	1:B:601:GLN:N	1.96	0.62
1:B:635:VAL:HB	1:B:641:ASP:OD1	1.98	0.62
1:C:244:LEU:HD21	1:C:256:PHE:HD2	1.64	0.62
1:D:312:LEU:CD2	1:D:313:PRO:HD2	2.30	0.62
1:F:913:PRO:O	1:F:914:VAL:HG12	1.99	0.62
1:G:312:LEU:CD2	1:G:313:PRO:HD2	2.30	0.62
1:H:371:ARG:HG3	1:H:390:TRP:CD1	2.34	0.62
1:H:411:VAL:O	1:H:423:PRO:HB3	1.99	0.62
1:H:517:THR:HA	1:H:520:GLN:CD	2.19	0.62
1:I:464:ASP:O	1:I:468:TYR:HE2	1.81	0.62
1:I:517:THR:HA	1:I:520:GLN:CD	2.19	0.62
1:I:548:LYS:NZ	1:I:601:GLN:CA	2.61	0.62
1:I:216:ASN:ND2	1:J:194:GLU:OE2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:451:LYS:HD3	1:J:486:LEU:CD2	2.26	0.62
1:K:276:SER:OG	1:L:122:LYS:HG3	2.00	0.62
1:L:603:ILE:HD11	1:L:635:VAL:CG1	2.29	0.62
1:N:499:GLN:HB2	1:N:520:GLN:HE22	1.64	0.62
1:B:371:ARG:HG3	1:B:390:TRP:CD1	2.34	0.62
1:B:538:LEU:HG	1:B:571:GLU:HG2	1.82	0.62
1:D:458:LEU:CB	1:D:587:ARG:HH21	2.12	0.62
1:E:587:ARG:HG3	1:E:588:VAL:H	1.63	0.62
1:E:603:ILE:HD11	1:E:635:VAL:CG1	2.29	0.62
1:F:517:THR:HA	1:F:520:GLN:CD	2.20	0.62
1:H:587:ARG:HG3	1:H:588:VAL:H	1.63	0.62
1:I:313:PRO:HA	1:I:338:TRP:HH2	1.63	0.62
1:I:913:PRO:O	1:I:914:VAL:HG12	1.99	0.62
1:J:587:ARG:HG3	1:J:588:VAL:H	1.63	0.62
1:J:458:LEU:CB	1:J:587:ARG:HH21	2.12	0.62
1:J:603:ILE:HD11	1:J:635:VAL:CG1	2.29	0.62
1:K:312:LEU:CD2	1:K:313:PRO:HD2	2.30	0.62
1:L:386:LEU:CD1	1:L:420:ILE:HD13	2.28	0.62
1:M:244:LEU:HD21	1:M:256:PHE:HD2	1.64	0.62
1:M:411:VAL:O	1:M:423:PRO:HB3	1.99	0.62
1:M:538:LEU:HG	1:M:571:GLU:HG2	1.82	0.62
1:M:548:LYS:HZ2	1:M:601:GLN:N	1.96	0.62
1:O:244:LEU:HD21	1:O:256:PHE:HD2	1.64	0.62
1:O:517:THR:HA	1:O:520:GLN:CD	2.19	0.62
1:P:312:LEU:CD2	1:P:313:PRO:HD2	2.30	0.62
1:P:913:PRO:O	1:P:914:VAL:HG12	1.99	0.62
1:A:313:PRO:CG	1:A:338:TRP:HE1	2.07	0.62
1:A:538:LEU:HG	1:A:571:GLU:HG2	1.82	0.62
1:A:916:LYS:HE2	1:B:1177:TYR:HE2	1.63	0.62
1:B:244:LEU:HD21	1:B:256:PHE:HD2	1.64	0.62
1:B:312:LEU:CD2	1:B:313:PRO:HD2	2.30	0.62
1:B:458:LEU:CB	1:B:587:ARG:HH21	2.12	0.62
1:C:475:LEU:HD23	1:C:478:ILE:HD12	1.80	0.62
1:C:538:LEU:HG	1:C:571:GLU:HG2	1.82	0.62
1:D:451:LYS:HD3	1:D:486:LEU:CD2	2.26	0.62
1:D:475:LEU:HD23	1:D:478:ILE:HD12	1.80	0.62
1:D:517:THR:HA	1:D:520:GLN:CD	2.20	0.62
1:E:458:LEU:CB	1:E:587:ARG:HH21	2.12	0.62
1:E:548:LYS:HG2	1:E:601:GLN:HA	1.81	0.62
1:F:198:LYS:NZ	1:G:222:HIS:CG	2.68	0.62
1:K:552:ASN:HB3	1:K:1226:TYR:HE1	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:475:LEU:HD23	1:K:478:ILE:HD12	1.80	0.62
1:M:371:ARG:HG3	1:M:390:TRP:CD1	2.34	0.62
1:M:458:LEU:CB	1:M:587:ARG:HH21	2.12	0.62
1:N:552:ASN:HB3	1:N:1226:TYR:HE1	1.63	0.62
1:N:538:LEU:HG	1:N:571:GLU:HG2	1.82	0.62
1:O:371:ARG:HG3	1:O:390:TRP:CD1	2.34	0.62
1:O:458:LEU:CB	1:O:587:ARG:HH21	2.12	0.62
1:O:53:ASP:O	1:O:57:GLY:N	2.27	0.62
1:P:587:ARG:HG3	1:P:588:VAL:H	1.63	0.62
1:D:378:SER:H	1:D:422:ILE:HD13	1.62	0.62
1:G:587:ARG:HG3	1:G:588:VAL:H	1.63	0.62
1:G:913:PRO:O	1:G:914:VAL:HG12	1.99	0.62
1:H:244:LEU:HD21	1:H:256:PHE:HD2	1.64	0.62
1:H:53:ASP:O	1:H:57:GLY:N	2.27	0.62
1:I:458:LEU:CB	1:I:587:ARG:HH21	2.12	0.62
1:I:548:LYS:HG2	1:I:601:GLN:HA	1.81	0.62
1:J:548:LYS:HG2	1:J:601:GLN:HA	1.81	0.62
1:K:458:LEU:CB	1:K:587:ARG:HH21	2.12	0.62
1:K:587:ARG:HG3	1:K:588:VAL:H	1.63	0.62
1:N:312:LEU:CD2	1:N:313:PRO:HD2	2.30	0.62
1:O:378:SER:H	1:O:422:ILE:HD13	1.61	0.62
1:P:518:LEU:CD1	1:P:518:LEU:H	2.13	0.62
1:A:835:SER:OG	1:A:850:GLN:NE2	2.33	0.62
1:B:915:TYR:O	1:B:916:LYS:CB	2.47	0.62
1:C:386:LEU:CD1	1:C:420:ILE:HD13	2.28	0.62
1:C:548:LYS:HG2	1:C:601:GLN:HA	1.81	0.62
1:D:244:LEU:HD21	1:D:256:PHE:HD2	1.64	0.62
1:D:587:ARG:HG3	1:D:588:VAL:H	1.63	0.62
1:F:313:PRO:HA	1:F:338:TRP:HH2	1.63	0.62
1:G:518:LEU:CD1	1:G:518:LEU:H	2.13	0.62
1:H:458:LEU:CB	1:H:587:ARG:HH21	2.12	0.62
1:H:548:LYS:HG2	1:H:601:GLN:HA	1.81	0.62
1:N:835:SER:OG	1:N:850:GLN:NE2	2.33	0.62
1:O:518:LEU:CD1	1:O:518:LEU:H	2.13	0.62
1:A:312:LEU:CD2	1:A:313:PRO:HD2	2.30	0.61
1:C:451:LYS:HD3	1:C:486:LEU:CD2	2.26	0.61
1:E:517:THR:HA	1:E:520:GLN:CD	2.20	0.61
1:F:587:ARG:HG3	1:F:588:VAL:H	1.63	0.61
1:F:458:LEU:CB	1:F:587:ARG:HH21	2.12	0.61
1:H:518:LEU:H	1:H:518:LEU:CD1	2.13	0.61
1:I:587:ARG:HG3	1:I:588:VAL:H	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:451:LYS:HD3	1:K:486:LEU:CD2	2.26	0.61
1:L:244:LEU:HD21	1:L:256:PHE:HD2	1.64	0.61
1:L:538:LEU:HG	1:L:571:GLU:HG2	1.82	0.61
1:M:913:PRO:O	1:M:914:VAL:HG12	1.99	0.61
1:M:915:TYR:O	1:M:916:LYS:CB	2.47	0.61
1:P:244:LEU:HD21	1:P:256:PHE:HD2	1.64	0.61
1:B:835:SER:OG	1:B:850:GLN:NE2	2.33	0.61
1:C:378:SER:N	1:C:422:ILE:HD11	2.10	0.61
1:D:518:LEU:CD1	1:D:518:LEU:H	2.13	0.61
1:D:838:ARG:HB2	1:D:847:VAL:HB	1.81	0.61
1:F:333:ASP:OD2	1:G:403:ASN:ND2	2.33	0.61
1:F:548:LYS:HG2	1:F:601:GLN:HA	1.81	0.61
1:H:913:PRO:O	1:H:914:VAL:HG12	1.99	0.61
1:J:312:LEU:CD2	1:J:313:PRO:HD2	2.30	0.61
1:K:222:HIS:CG	1:L:198:LYS:HZ2	2.16	0.61
1:K:244:LEU:HD21	1:K:256:PHE:HD2	1.64	0.61
1:K:518:LEU:H	1:K:518:LEU:CD1	2.13	0.61
1:K:517:THR:HA	1:K:520:GLN:CD	2.20	0.61
1:M:216:ASN:ND2	1:N:194:GLU:OE2	2.33	0.61
1:M:835:SER:OG	1:M:850:GLN:NE2	2.33	0.61
1:O:548:LYS:HG2	1:O:601:GLN:HA	1.81	0.61
1:B:913:PRO:O	1:B:914:VAL:HG12	1.99	0.61
1:C:397:ASP:O	1:C:401:VAL:N	2.28	0.61
1:C:838:ARG:HB2	1:C:847:VAL:HB	1.81	0.61
1:F:244:LEU:HD21	1:F:256:PHE:HD2	1.64	0.61
1:G:244:LEU:HD21	1:G:256:PHE:HD2	1.64	0.61
1:L:518:LEU:CD1	1:L:518:LEU:H	2.13	0.61
1:L:548:LYS:HG2	1:L:601:GLN:HA	1.81	0.61
1:N:244:LEU:HD21	1:N:256:PHE:HD2	1.64	0.61
1:P:53:ASP:O	1:P:57:GLY:N	2.27	0.61
1:A:244:LEU:HD21	1:A:256:PHE:HD2	1.64	0.61
1:A:464:ASP:O	1:A:468:TYR:HE2	1.81	0.61
1:A:548:LYS:HZ2	1:A:601:GLN:N	1.97	0.61
1:A:838:ARG:HB2	1:A:847:VAL:HB	1.81	0.61
1:D:130:PRO:HA	1:D:290:MET:CE	2.31	0.61
1:E:130:PRO:HA	1:E:290:MET:CE	2.31	0.61
1:E:312:LEU:CD2	1:E:313:PRO:HD2	2.30	0.61
1:F:838:ARG:HB2	1:F:847:VAL:HB	1.81	0.61
1:G:464:ASP:O	1:G:468:TYR:HE2	1.81	0.61
1:J:244:LEU:HD21	1:J:256:PHE:HD2	1.64	0.61
1:K:276:SER:CB	1:L:122:LYS:HG3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:838:ARG:HB2	1:K:847:VAL:HB	1.81	0.61
1:M:130:PRO:HA	1:M:290:MET:CE	2.31	0.61
1:O:913:PRO:O	1:O:914:VAL:HG12	1.99	0.61
1:B:130:PRO:HA	1:B:290:MET:CE	2.31	0.61
1:B:88:LEU:O	1:B:91:PRO:HD2	2.01	0.61
1:C:130:PRO:HA	1:C:290:MET:CE	2.31	0.61
1:C:518:LEU:CD1	1:C:518:LEU:H	2.13	0.61
1:C:88:LEU:O	1:C:91:PRO:HD2	2.01	0.61
1:C:913:PRO:O	1:C:914:VAL:HG12	1.99	0.61
1:E:244:LEU:HD21	1:E:256:PHE:HD2	1.64	0.61
1:G:53:ASP:O	1:G:57:GLY:N	2.27	0.61
1:G:194:GLU:OE2	1:H:216:ASN:ND2	2.33	0.61
1:H:378:SER:H	1:H:422:ILE:HD13	1.62	0.61
1:I:244:LEU:HD21	1:I:256:PHE:HD2	1.64	0.61
1:I:838:ARG:HB2	1:I:847:VAL:HB	1.81	0.61
1:J:130:PRO:HA	1:J:290:MET:CE	2.31	0.61
1:K:130:PRO:HA	1:K:290:MET:CE	2.31	0.61
1:L:475:LEU:HD23	1:L:478:ILE:HD12	1.80	0.61
1:L:590:PHE:HD2	1:L:1263:MET:HA	1.66	0.61
1:M:88:LEU:O	1:M:91:PRO:HD2	2.01	0.61
1:N:548:LYS:HZ2	1:N:601:GLN:N	1.97	0.61
1:O:312:LEU:CD2	1:O:313:PRO:HD2	2.30	0.61
1:O:557:LYS:HZ2	1:O:1223:GLN:HG3	1.64	0.61
1:B:252:ALA:O	1:B:255:ALA:N	2.25	0.61
1:C:590:PHE:HD2	1:C:1263:MET:HA	1.66	0.61
1:F:518:LEU:H	1:F:518:LEU:CD1	2.13	0.61
1:H:538:LEU:HG	1:H:571:GLU:HG2	1.82	0.61
1:H:548:LYS:NZ	1:H:601:GLN:CA	2.61	0.61
1:J:517:THR:HA	1:J:520:GLN:CD	2.20	0.61
1:K:835:SER:OG	1:K:850:GLN:NE2	2.33	0.61
1:L:913:PRO:O	1:L:914:VAL:HG12	1.99	0.61
1:N:838:ARG:HB2	1:N:847:VAL:HB	1.81	0.61
1:O:835:SER:OG	1:O:850:GLN:NE2	2.33	0.61
1:P:464:ASP:O	1:P:468:TYR:HE2	1.81	0.61
1:A:590:PHE:HD2	1:A:1263:MET:HA	1.66	0.61
1:B:590:PHE:HD2	1:B:1263:MET:HA	1.66	0.61
1:D:548:LYS:HG2	1:D:601:GLN:HA	1.81	0.61
1:D:835:SER:OG	1:D:850:GLN:NE2	2.33	0.61
1:E:252:ALA:O	1:E:255:ALA:N	2.25	0.61
1:F:378:SER:H	1:F:422:ILE:HD13	1.62	0.61
1:H:557:LYS:HZ2	1:H:1223:GLN:HG3	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:312:LEU:CD2	1:H:313:PRO:HD2	2.30	0.61
1:H:464:ASP:O	1:H:468:TYR:HE2	1.81	0.61
1:H:88:LEU:O	1:H:91:PRO:HD2	2.01	0.61
1:K:548:LYS:HG2	1:K:601:GLN:HA	1.81	0.61
1:K:590:PHE:HD2	1:K:1263:MET:HA	1.66	0.61
1:L:130:PRO:HA	1:L:290:MET:CE	2.31	0.61
1:L:631:LEU:HD23	1:L:646:ARG:HH21	1.66	0.61
1:L:88:LEU:O	1:L:91:PRO:HD2	2.01	0.61
1:M:590:PHE:HD2	1:M:1263:MET:HA	1.66	0.61
1:N:590:PHE:HD2	1:N:1263:MET:HA	1.66	0.61
1:O:538:LEU:HG	1:O:571:GLU:HG2	1.82	0.61
1:C:915:TYR:O	1:C:916:LYS:CB	2.47	0.61
1:D:590:PHE:HD2	1:D:1263:MET:HA	1.66	0.61
1:F:130:PRO:HA	1:F:290:MET:CE	2.31	0.61
1:H:835:SER:OG	1:H:850:GLN:NE2	2.33	0.61
1:I:130:PRO:HA	1:I:290:MET:CE	2.31	0.61
1:I:518:LEU:CD1	1:I:518:LEU:H	2.13	0.61
1:K:538:LEU:HG	1:K:571:GLU:HG2	1.82	0.61
1:M:252:ALA:O	1:M:255:ALA:N	2.25	0.61
1:O:88:LEU:O	1:O:91:PRO:HD2	2.01	0.61
1:A:130:PRO:HA	1:A:290:MET:CE	2.31	0.61
1:B:631:LEU:HD23	1:B:646:ARG:HH21	1.66	0.61
1:C:378:SER:H	1:C:422:ILE:HD13	1.61	0.61
1:C:631:LEU:HD23	1:C:646:ARG:HH21	1.66	0.61
1:C:919:VAL:HG12	1:C:933:THR:HG22	1.83	0.61
1:D:538:LEU:HG	1:D:571:GLU:HG2	1.82	0.61
1:E:548:LYS:NZ	1:E:601:GLN:CA	2.61	0.61
1:H:631:LEU:HD23	1:H:646:ARG:HH21	1.66	0.61
1:I:357:LEU:HD21	1:I:427:LEU:HD22	1.83	0.61
1:K:313:PRO:CG	1:K:338:TRP:HE1	2.08	0.61
1:L:378:SER:H	1:L:422:ILE:HD13	1.62	0.61
1:L:451:LYS:HD3	1:L:486:LEU:CD2	2.26	0.61
1:L:838:ARG:HB2	1:L:847:VAL:HB	1.81	0.61
1:L:915:TYR:O	1:L:916:LYS:CB	2.47	0.61
1:M:631:LEU:HD23	1:M:646:ARG:HH21	1.66	0.61
1:O:464:ASP:O	1:O:468:TYR:HE2	1.81	0.61
1:O:548:LYS:NZ	1:O:601:GLN:CA	2.61	0.61
1:O:631:LEU:HD23	1:O:646:ARG:HH21	1.66	0.61
1:P:548:LYS:HG2	1:P:601:GLN:HA	1.81	0.61
1:E:835:SER:OG	1:E:850:GLN:NE2	2.33	0.61
1:F:357:LEU:HD21	1:F:427:LEU:HD22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:548:LYS:HG2	1:G:601:GLN:HA	1.81	0.61
1:J:835:SER:OG	1:J:850:GLN:NE2	2.33	0.61
1:L:252:ALA:O	1:L:255:ALA:N	2.25	0.61
1:N:130:PRO:HA	1:N:290:MET:CE	2.31	0.61
1:N:518:LEU:CD1	1:N:518:LEU:H	2.13	0.61
1:B:919:VAL:HG12	1:B:933:THR:HG22	1.83	0.60
1:C:835:SER:OG	1:C:850:GLN:NE2	2.33	0.60
1:D:252:ALA:O	1:D:255:ALA:N	2.25	0.60
1:D:313:PRO:CG	1:D:338:TRP:HE1	2.07	0.60
1:E:590:PHE:HD2	1:E:1263:MET:HA	1.66	0.60
1:G:88:LEU:O	1:G:91:PRO:HD2	2.01	0.60
1:H:412:GLU:O	1:H:421:SER:O	2.19	0.60
1:J:590:PHE:HD2	1:J:1263:MET:HA	1.66	0.60
1:K:357:LEU:HD21	1:K:427:LEU:HD22	1.83	0.60
1:K:631:LEU:HD23	1:K:646:ARG:HH21	1.66	0.60
1:L:919:VAL:HG12	1:L:933:THR:HG22	1.83	0.60
1:O:412:GLU:O	1:O:421:SER:O	2.19	0.60
1:P:313:PRO:HA	1:P:338:TRP:HH2	1.63	0.60
1:P:88:LEU:O	1:P:91:PRO:HD2	2.01	0.60
1:A:412:GLU:O	1:A:421:SER:O	2.19	0.60
1:A:508:TRP:C	1:A:606:GLY:CA	2.69	0.60
1:A:631:LEU:HD23	1:A:646:ARG:HH21	1.66	0.60
1:B:412:GLU:O	1:B:421:SER:O	2.19	0.60
1:D:631:LEU:HD23	1:D:646:ARG:HH21	1.66	0.60
1:E:838:ARG:HB2	1:E:847:VAL:HB	1.81	0.60
1:F:590:PHE:HD2	1:F:1263:MET:HA	1.66	0.60
1:F:252:ALA:O	1:F:255:ALA:N	2.25	0.60
1:F:631:LEU:HD23	1:F:646:ARG:HH21	1.66	0.60
1:H:130:PRO:HA	1:H:290:MET:CE	2.31	0.60
1:H:637:LEU:O	1:H:638:GLU:CB	2.43	0.60
1:J:548:LYS:NZ	1:J:601:GLN:CA	2.61	0.60
1:M:412:GLU:O	1:M:421:SER:O	2.19	0.60
1:N:412:GLU:O	1:N:421:SER:O	2.19	0.60
1:N:508:TRP:C	1:N:606:GLY:CA	2.69	0.60
1:O:590:PHE:HD2	1:O:1263:MET:HA	1.66	0.60
1:O:357:LEU:HD21	1:O:427:LEU:HD22	1.83	0.60
1:B:451:LYS:HD3	1:B:486:LEU:CD2	2.26	0.60
1:E:357:LEU:HD21	1:E:427:LEU:HD22	1.83	0.60
1:G:590:PHE:HD2	1:G:1263:MET:HA	1.66	0.60
1:G:488:ARG:HG2	1:G:491:PHE:CD2	2.36	0.60
1:H:357:LEU:HD21	1:H:427:LEU:HD22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:590:PHE:HD2	1:H:1263:MET:HA	1.66	0.60
1:H:663:GLN:HB2	1:H:680:LEU:HD12	1.83	0.60
1:H:712:LEU:HD13	1:H:738:ASN:HD22	1.67	0.60
1:K:252:ALA:O	1:K:255:ALA:N	2.25	0.60
1:L:357:LEU:HD21	1:L:427:LEU:HD22	1.83	0.60
1:L:835:SER:OG	1:L:850:GLN:NE2	2.33	0.60
1:O:663:GLN:HB2	1:O:680:LEU:HD12	1.83	0.60
1:O:712:LEU:HD13	1:O:738:ASN:HD22	1.67	0.60
1:A:518:LEU:H	1:A:518:LEU:CD1	2.13	0.60
1:A:663:GLN:HB2	1:A:680:LEU:HD12	1.83	0.60
1:C:412:GLU:O	1:C:421:SER:O	2.19	0.60
1:D:357:LEU:HD21	1:D:427:LEU:HD22	1.83	0.60
1:D:412:GLU:O	1:D:421:SER:O	2.19	0.60
1:D:915:TYR:O	1:D:916:LYS:CB	2.47	0.60
1:G:313:PRO:HA	1:G:338:TRP:HH2	1.63	0.60
1:G:412:GLU:O	1:G:421:SER:O	2.19	0.60
1:G:538:LEU:HG	1:G:571:GLU:HG2	1.82	0.60
1:G:838:ARG:HB2	1:G:847:VAL:HB	1.81	0.60
1:H:488:ARG:HG2	1:H:491:PHE:CD2	2.37	0.60
1:J:252:ALA:O	1:J:255:ALA:N	2.25	0.60
1:J:357:LEU:HD21	1:J:427:LEU:HD22	1.83	0.60
1:J:838:ARG:HB2	1:J:847:VAL:HB	1.81	0.60
1:K:53:ASP:O	1:K:57:GLY:N	2.27	0.60
1:L:412:GLU:O	1:L:421:SER:O	2.20	0.60
1:M:919:VAL:HG12	1:M:933:THR:HG22	1.84	0.60
1:O:130:PRO:HA	1:O:290:MET:CE	2.31	0.60
1:O:637:LEU:O	1:O:638:GLU:CB	2.43	0.60
1:P:590:PHE:HD2	1:P:1263:MET:HA	1.66	0.60
1:P:412:GLU:O	1:P:421:SER:O	2.19	0.60
1:P:488:ARG:HG2	1:P:491:PHE:CD2	2.37	0.60
1:P:838:ARG:HB2	1:P:847:VAL:HB	1.81	0.60
1:P:835:SER:OG	1:P:850:GLN:NE2	2.33	0.60
1:B:518:LEU:H	1:B:518:LEU:CD1	2.13	0.60
1:C:357:LEU:HD21	1:C:427:LEU:HD22	1.83	0.60
1:D:548:LYS:NZ	1:D:601:GLN:CA	2.61	0.60
1:D:919:VAL:HG12	1:D:933:THR:HG22	1.83	0.60
1:D:916:LYS:CE	1:E:1177:TYR:CE2	2.85	0.60
1:E:915:TYR:O	1:E:916:LYS:CB	2.47	0.60
1:F:915:TYR:O	1:F:916:LYS:CB	2.47	0.60
1:G:835:SER:OG	1:G:850:GLN:NE2	2.33	0.60
1:J:53:ASP:O	1:J:57:GLY:N	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:412:GLU:O	1:K:421:SER:O	2.19	0.60
1:K:919:VAL:HG12	1:K:933:THR:HG22	1.83	0.60
1:C:97:ARG:NH2	1:L:97:ARG:NH2	2.49	0.60
1:M:451:LYS:HD3	1:M:486:LEU:CD2	2.26	0.60
1:N:631:LEU:HD23	1:N:646:ARG:HH21	1.66	0.60
1:O:488:ARG:HG2	1:O:491:PHE:CD2	2.37	0.60
1:P:130:PRO:HA	1:P:290:MET:CE	2.31	0.60
1:P:663:GLN:HB2	1:P:680:LEU:HD12	1.83	0.60
1:A:488:ARG:HG2	1:A:491:PHE:CD2	2.36	0.60
1:C:488:ARG:HG2	1:C:491:PHE:CD2	2.36	0.60
1:C:53:ASP:O	1:C:57:GLY:N	2.27	0.60
1:D:53:ASP:O	1:D:57:GLY:N	2.27	0.60
1:F:397:ASP:O	1:F:401:VAL:N	2.28	0.60
1:F:835:SER:OG	1:F:850:GLN:NE2	2.33	0.60
1:G:130:PRO:HA	1:G:290:MET:CE	2.31	0.60
1:G:186:CYS:O	1:G:187:ASN:ND2	2.35	0.60
1:G:712:LEU:HD13	1:G:738:ASN:HD22	1.67	0.60
1:I:590:PHE:HD2	1:I:1263:MET:HA	1.66	0.60
1:I:538:LEU:HG	1:I:571:GLU:HG2	1.82	0.60
1:I:631:LEU:HD23	1:I:646:ARG:HH21	1.66	0.60
1:I:835:SER:OG	1:I:850:GLN:NE2	2.33	0.60
1:J:631:LEU:HD23	1:J:646:ARG:HH21	1.66	0.60
1:K:915:TYR:O	1:K:916:LYS:CB	2.47	0.60
1:L:397:ASP:O	1:L:401:VAL:N	2.28	0.60
1:M:508:TRP:C	1:M:606:GLY:CA	2.69	0.60
1:M:518:LEU:CD1	1:M:518:LEU:H	2.13	0.60
1:N:663:GLN:HB2	1:N:680:LEU:HD12	1.83	0.60
1:P:538:LEU:HG	1:P:571:GLU:HG2	1.82	0.60
1:B:508:TRP:C	1:B:606:GLY:CA	2.69	0.60
1:C:121:ALA:HB1	1:D:276:SER:CB	2.22	0.60
1:C:252:ALA:O	1:C:255:ALA:N	2.25	0.60
1:C:712:LEU:HD13	1:C:738:ASN:HD22	1.67	0.60
1:E:518:LEU:H	1:E:518:LEU:CD1	2.13	0.60
1:E:538:LEU:HG	1:E:571:GLU:HG2	1.82	0.60
1:E:631:LEU:HD23	1:E:646:ARG:HH21	1.66	0.60
1:F:88:LEU:O	1:F:91:PRO:HD2	2.01	0.60
1:G:357:LEU:HD21	1:G:427:LEU:HD22	1.83	0.60
1:G:663:GLN:HB2	1:G:680:LEU:HD12	1.83	0.60
1:I:252:ALA:O	1:I:255:ALA:N	2.25	0.60
1:J:317:LEU:C	1:J:318:THR:HG1	1.96	0.60
1:J:538:LEU:HG	1:J:571:GLU:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:488:ARG:HG2	1:N:491:PHE:CD2	2.37	0.60
1:P:186:CYS:O	1:P:187:ASN:ND2	2.35	0.60
1:B:357:LEU:HD21	1:B:427:LEU:HD22	1.83	0.60
1:B:712:LEU:HD13	1:B:738:ASN:HD22	1.67	0.60
1:C:548:LYS:NZ	1:C:601:GLN:CA	2.61	0.60
1:D:712:LEU:HD13	1:D:738:ASN:HD22	1.67	0.60
1:E:198:LYS:NZ	1:F:222:HIS:CG	2.70	0.60
1:E:188:SER:N	1:E:251:APK:O2P	2.31	0.60
1:E:412:GLU:O	1:E:421:SER:O	2.19	0.60
1:E:88:LEU:O	1:E:91:PRO:HD2	2.01	0.60
1:I:88:LEU:O	1:I:91:PRO:HD2	2.01	0.60
1:J:412:GLU:O	1:J:421:SER:O	2.19	0.60
1:J:518:LEU:CD1	1:J:518:LEU:H	2.13	0.60
1:J:915:TYR:O	1:J:916:LYS:CB	2.47	0.60
1:M:357:LEU:HD21	1:M:427:LEU:HD22	1.83	0.60
1:M:663:GLN:HB2	1:M:680:LEU:HD12	1.83	0.60
1:N:186:CYS:O	1:N:187:ASN:ND2	2.35	0.60
1:N:518:LEU:HA	1:N:521:LEU:HB3	1.84	0.60
1:N:712:LEU:HD13	1:N:738:ASN:HD22	1.67	0.60
1:P:357:LEU:HD21	1:P:427:LEU:HD22	1.83	0.60
1:P:712:LEU:HD13	1:P:738:ASN:HD22	1.67	0.60
1:A:186:CYS:O	1:A:187:ASN:ND2	2.35	0.60
1:A:397:ASP:O	1:A:401:VAL:N	2.28	0.60
1:A:518:LEU:HA	1:A:521:LEU:HB3	1.84	0.60
1:A:88:LEU:O	1:A:91:PRO:HD2	2.01	0.60
1:B:663:GLN:HB2	1:B:680:LEU:HD12	1.83	0.60
1:D:88:LEU:O	1:D:91:PRO:HD2	2.01	0.60
1:E:508:TRP:C	1:E:606:GLY:CA	2.69	0.60
1:F:538:LEU:HG	1:F:571:GLU:HG2	1.82	0.60
1:I:186:CYS:O	1:I:187:ASN:ND2	2.35	0.60
1:I:412:GLU:O	1:I:421:SER:O	2.19	0.60
1:I:915:TYR:O	1:I:916:LYS:CB	2.47	0.60
1:N:88:LEU:O	1:N:91:PRO:HD2	2.01	0.60
1:O:313:PRO:HA	1:O:338:TRP:HH2	1.63	0.60
1:P:518:LEU:HA	1:P:521:LEU:HB3	1.84	0.60
1:A:378:SER:HA	1:A:422:ILE:HD12	1.84	0.60
1:A:712:LEU:HD13	1:A:738:ASN:HD22	1.67	0.60
1:A:919:VAL:HG12	1:A:933:THR:HG22	1.83	0.60
1:E:317:LEU:C	1:E:318:THR:HG1	1.97	0.60
1:F:186:CYS:O	1:F:187:ASN:ND2	2.35	0.60
1:F:412:GLU:O	1:F:421:SER:O	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:216:ASN:ND2	1:H:194:GLU:OE2	2.35	0.60
1:I:313:PRO:CG	1:I:338:TRP:HE1	2.07	0.60
1:J:769:ARG:HH12	1:J:771:PHE:HB2	1.67	0.60
1:K:519:GLN:HG2	1:K:523:PHE:CE2	2.37	0.60
1:K:548:LYS:NZ	1:K:601:GLN:CA	2.61	0.60
1:K:712:LEU:HD13	1:K:738:ASN:HD22	1.67	0.60
1:L:712:LEU:HD13	1:L:738:ASN:HD22	1.67	0.60
1:M:712:LEU:HD13	1:M:738:ASN:HD22	1.67	0.60
1:B:519:GLN:HG2	1:B:523:PHE:CE2	2.37	0.59
1:D:663:GLN:HB2	1:D:680:LEU:HD12	1.83	0.59
1:D:769:ARG:HH12	1:D:771:PHE:HB2	1.67	0.59
1:E:663:GLN:HB2	1:E:680:LEU:HD12	1.83	0.59
1:E:769:ARG:HH12	1:E:771:PHE:HB2	1.67	0.59
1:F:316:VAL:O	1:F:316:VAL:HG23	2.02	0.59
1:G:557:LYS:HZ2	1:G:1223:GLN:HG3	1.67	0.59
1:G:518:LEU:HA	1:G:521:LEU:HB3	1.84	0.59
1:I:511:SER:HA	1:I:514:ILE:N	2.17	0.59
1:I:769:ARG:HH12	1:I:771:PHE:HB2	1.67	0.59
1:J:188:SER:N	1:J:251:APK:O2P	2.31	0.59
1:J:508:TRP:C	1:J:606:GLY:CA	2.69	0.59
1:K:663:GLN:HB2	1:K:680:LEU:HD12	1.83	0.59
1:K:88:LEU:O	1:K:91:PRO:HD2	2.01	0.59
1:L:53:ASP:O	1:L:57:GLY:N	2.27	0.59
1:M:519:GLN:HG2	1:M:523:PHE:CE2	2.37	0.59
1:N:378:SER:HA	1:N:422:ILE:HD12	1.84	0.59
1:P:557:LYS:HZ2	1:P:1223:GLN:HG3	1.67	0.59
1:B:488:ARG:HG2	1:B:491:PHE:CD2	2.37	0.59
1:D:519:GLN:HG2	1:D:523:PHE:CE2	2.37	0.59
1:F:511:SER:HA	1:F:514:ILE:N	2.17	0.59
1:H:313:PRO:HA	1:H:338:TRP:HH2	1.63	0.59
1:I:316:VAL:O	1:I:316:VAL:HG23	2.02	0.59
1:I:488:ARG:HG2	1:I:491:PHE:CD2	2.36	0.59
1:J:663:GLN:HB2	1:J:680:LEU:HD12	1.83	0.59
1:J:88:LEU:O	1:J:91:PRO:HD2	2.01	0.59
1:J:919:VAL:HG12	1:J:933:THR:HG22	1.83	0.59
1:K:365:TYR:O	1:K:368:MET:N	2.21	0.59
1:K:769:ARG:HH12	1:K:771:PHE:HB2	1.67	0.59
1:L:488:ARG:HG2	1:L:491:PHE:CD2	2.37	0.59
1:L:508:TRP:C	1:L:606:GLY:CA	2.69	0.59
1:M:511:SER:HA	1:M:514:ILE:N	2.17	0.59
1:N:365:TYR:O	1:N:368:MET:N	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:919:VAL:HG12	1:N:933:THR:HG22	1.83	0.59
1:A:357:LEU:HD21	1:A:427:LEU:HD22	1.83	0.59
1:A:916:LYS:CE	1:B:1177:TYR:HE2	2.15	0.59
1:B:511:SER:HA	1:B:514:ILE:N	2.17	0.59
1:E:519:GLN:HG2	1:E:523:PHE:CE2	2.37	0.59
1:E:919:VAL:HG12	1:E:933:THR:HG22	1.83	0.59
1:F:313:PRO:CG	1:F:338:TRP:HE1	2.07	0.59
1:H:511:SER:HA	1:H:514:ILE:N	2.17	0.59
1:I:142:ARG:NH1	1:J:14:ASP:OD2	2.35	0.59
1:I:365:TYR:O	1:I:368:MET:N	2.21	0.59
1:I:517:THR:O	1:I:519:GLN:N	2.35	0.59
1:J:488:ARG:HG2	1:J:491:PHE:CD2	2.37	0.59
1:J:511:SER:HA	1:J:514:ILE:N	2.18	0.59
1:J:517:THR:O	1:J:519:GLN:N	2.35	0.59
1:K:508:TRP:C	1:K:606:GLY:CA	2.69	0.59
1:M:488:ARG:HG2	1:M:491:PHE:CD2	2.37	0.59
1:M:518:LEU:HA	1:M:521:LEU:HB3	1.84	0.59
1:N:519:GLN:HG2	1:N:523:PHE:CE2	2.37	0.59
1:O:511:SER:HA	1:O:514:ILE:N	2.17	0.59
1:A:519:GLN:HG2	1:A:523:PHE:CE2	2.37	0.59
1:B:518:LEU:HA	1:B:521:LEU:HB3	1.84	0.59
1:C:518:LEU:HA	1:C:521:LEU:HB3	1.84	0.59
1:C:508:TRP:C	1:C:606:GLY:CA	2.70	0.59
1:D:488:ARG:HG2	1:D:491:PHE:CD2	2.37	0.59
1:D:508:TRP:C	1:D:606:GLY:CA	2.69	0.59
1:E:186:CYS:O	1:E:187:ASN:ND2	2.35	0.59
1:E:488:ARG:HG2	1:E:491:PHE:CD2	2.37	0.59
1:E:511:SER:HA	1:E:514:ILE:N	2.18	0.59
1:E:517:THR:O	1:E:519:GLN:N	2.35	0.59
1:E:712:LEU:HD13	1:E:738:ASN:HD22	1.67	0.59
1:F:769:ARG:HH12	1:F:771:PHE:HB2	1.67	0.59
1:J:519:GLN:HG2	1:J:523:PHE:CE2	2.37	0.59
1:K:548:LYS:HZ2	1:K:601:GLN:H	1.51	0.59
1:L:663:GLN:HB2	1:L:680:LEU:HD12	1.83	0.59
1:N:397:ASP:O	1:N:401:VAL:N	2.28	0.59
1:N:142:ARG:NH1	1:O:14:ASP:OD2	2.33	0.59
1:C:769:ARG:HH12	1:C:771:PHE:HB2	1.67	0.59
1:D:365:TYR:O	1:D:368:MET:N	2.21	0.59
1:D:511:SER:HA	1:D:514:ILE:N	2.18	0.59
1:F:130:PRO:HA	1:F:290:MET:HE1	1.84	0.59
1:F:663:GLN:HB2	1:F:680:LEU:HD12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:397:ASP:O	1:I:401:VAL:N	2.28	0.59
1:J:712:LEU:HD13	1:J:738:ASN:HD22	1.67	0.59
1:J:216:ASN:ND2	1:K:194:GLU:OE2	2.36	0.59
1:K:276:SER:HB2	1:L:122:LYS:HG3	1.84	0.59
1:K:488:ARG:HG2	1:K:491:PHE:CD2	2.37	0.59
1:K:511:SER:HA	1:K:514:ILE:N	2.18	0.59
1:L:186:CYS:O	1:L:187:ASN:ND2	2.35	0.59
1:M:142:ARG:NH1	1:N:14:ASP:OD2	2.34	0.59
1:N:357:LEU:HD21	1:N:427:LEU:HD22	1.83	0.59
1:A:365:TYR:O	1:A:368:MET:N	2.21	0.59
1:B:188:SER:N	1:B:251:APK:O2P	2.31	0.59
1:B:316:VAL:O	1:B:316:VAL:HG23	2.02	0.59
1:C:312:LEU:CD2	1:C:313:PRO:HD2	2.30	0.59
1:C:517:THR:O	1:C:519:GLN:N	2.35	0.59
1:E:316:VAL:HG23	1:E:316:VAL:O	2.02	0.59
1:H:378:SER:HA	1:H:422:ILE:HD12	1.84	0.59
1:I:663:GLN:HB2	1:I:680:LEU:HD12	1.83	0.59
1:J:186:CYS:O	1:J:187:ASN:ND2	2.35	0.59
1:J:316:VAL:HG23	1:J:316:VAL:O	2.02	0.59
1:K:518:LEU:HA	1:K:521:LEU:HB3	1.84	0.59
1:L:518:LEU:HA	1:L:521:LEU:HB3	1.84	0.59
1:M:186:CYS:O	1:M:187:ASN:ND2	2.35	0.59
1:M:188:SER:N	1:M:251:APK:O2P	2.31	0.59
1:M:316:VAL:HG23	1:M:316:VAL:O	2.02	0.59
1:N:24:VAL:HA	1:N:58:THR:HG21	1.85	0.59
1:B:186:CYS:O	1:B:187:ASN:ND2	2.35	0.59
1:B:24:VAL:HA	1:B:58:THR:HG21	1.85	0.59
1:B:499:GLN:HB2	1:B:520:GLN:NE2	2.18	0.59
1:C:186:CYS:O	1:C:187:ASN:ND2	2.35	0.59
1:C:365:TYR:O	1:C:368:MET:N	2.21	0.59
1:C:663:GLN:HB2	1:C:680:LEU:HD12	1.83	0.59
1:D:517:THR:O	1:D:519:GLN:N	2.35	0.59
1:E:442:SER:O	1:E:446:HIS:CG	2.55	0.59
1:F:314:ARG:O	1:F:315:GLU:HB2	2.03	0.59
1:F:517:THR:O	1:F:519:GLN:N	2.35	0.59
1:F:712:LEU:HD13	1:F:738:ASN:HD22	1.67	0.59
1:F:14:ASP:CG	1:G:142:ARG:HH22	2.06	0.59
1:G:316:VAL:HG23	1:G:316:VAL:O	2.02	0.59
1:G:915:TYR:O	1:G:916:LYS:CB	2.47	0.59
1:L:769:ARG:HH12	1:L:771:PHE:HB2	1.67	0.59
1:M:378:SER:HA	1:M:422:ILE:HD12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:499:GLN:HB2	1:M:520:GLN:NE2	2.18	0.59
1:O:499:GLN:HB2	1:O:520:GLN:NE2	2.18	0.59
1:A:24:VAL:HA	1:A:58:THR:HG21	1.85	0.59
1:B:378:SER:HA	1:B:422:ILE:HD12	1.84	0.59
1:C:511:SER:HA	1:C:514:ILE:N	2.17	0.59
1:D:518:LEU:HA	1:D:521:LEU:HB3	1.84	0.59
1:E:499:GLN:HB2	1:E:520:GLN:NE2	2.18	0.59
1:E:518:LEU:HA	1:E:521:LEU:HB3	1.84	0.59
1:F:444:VAL:HG22	1:F:478:ILE:HG12	1.85	0.59
1:F:488:ARG:HG2	1:F:491:PHE:CD2	2.37	0.59
1:F:504:ASP:OD2	1:F:509:ASN:O	2.21	0.59
1:F:919:VAL:HG12	1:F:933:THR:HG22	1.83	0.59
1:H:442:SER:O	1:H:446:HIS:CG	2.55	0.59
1:H:517:THR:O	1:H:519:GLN:N	2.35	0.59
1:I:314:ARG:O	1:I:315:GLU:HB2	2.03	0.59
1:I:444:VAL:HG22	1:I:478:ILE:HG12	1.85	0.59
1:I:504:ASP:OD2	1:I:509:ASN:O	2.21	0.59
1:J:518:LEU:HA	1:J:521:LEU:HB3	1.84	0.59
1:K:517:THR:O	1:K:519:GLN:N	2.35	0.59
1:L:442:SER:O	1:L:446:HIS:CG	2.55	0.59
1:L:511:SER:HA	1:L:514:ILE:N	2.17	0.59
1:M:24:VAL:HA	1:M:58:THR:HG21	1.85	0.59
1:M:312:LEU:CD2	1:M:313:PRO:HD2	2.30	0.59
1:O:378:SER:HA	1:O:422:ILE:HD12	1.84	0.59
1:O:517:THR:O	1:O:519:GLN:N	2.35	0.59
1:P:316:VAL:O	1:P:316:VAL:HG23	2.02	0.59
1:P:915:TYR:O	1:P:916:LYS:CB	2.47	0.59
1:A:188:SER:N	1:A:251:APK:O2P	2.31	0.59
1:A:637:LEU:O	1:A:638:GLU:CB	2.43	0.59
1:C:24:VAL:HA	1:C:58:THR:HG21	1.85	0.59
1:F:371:ARG:HB3	1:F:389:ILE:HG21	1.85	0.59
1:G:252:ALA:O	1:G:255:ALA:N	2.25	0.59
1:G:371:ARG:HB3	1:G:389:ILE:HG21	1.85	0.59
1:G:444:VAL:HG22	1:G:478:ILE:HG12	1.85	0.59
1:G:631:LEU:HD23	1:G:646:ARG:HH21	1.66	0.59
1:H:313:PRO:CG	1:H:338:TRP:HE1	2.07	0.59
1:H:504:ASP:OD2	1:H:509:ASN:O	2.21	0.59
1:H:499:GLN:HB2	1:H:520:GLN:NE2	2.18	0.59
1:H:919:VAL:HG12	1:H:933:THR:HG22	1.83	0.59
1:I:371:ARG:HB3	1:I:389:ILE:HG21	1.85	0.59
1:I:499:GLN:HB2	1:I:520:GLN:NE2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:442:SER:O	1:J:446:HIS:CG	2.55	0.59
1:J:499:GLN:HB2	1:J:520:GLN:NE2	2.18	0.59
1:L:517:THR:O	1:L:519:GLN:N	2.35	0.59
1:L:548:LYS:HZ2	1:L:601:GLN:H	1.51	0.59
1:M:11:GLN:NE2	1:M:70:GLU:OE1	2.36	0.59
1:O:1177:TYR:HE2	1:P:916:LYS:CE	2.16	0.59
1:O:24:VAL:HA	1:O:58:THR:HG21	1.85	0.59
1:O:313:PRO:CG	1:O:338:TRP:HE1	2.07	0.59
1:O:442:SER:O	1:O:446:HIS:CG	2.55	0.59
1:O:919:VAL:HG12	1:O:933:THR:HG22	1.83	0.59
1:P:371:ARG:HB3	1:P:389:ILE:HG21	1.85	0.59
1:P:444:VAL:HG22	1:P:478:ILE:HG12	1.85	0.59
1:P:504:ASP:OD2	1:P:509:ASN:O	2.21	0.59
1:A:451:LYS:HD3	1:A:486:LEU:CD2	2.26	0.59
1:B:11:GLN:NE2	1:B:70:GLU:OE1	2.36	0.59
1:B:130:PRO:HA	1:B:290:MET:HE1	1.85	0.59
1:B:53:ASP:O	1:B:57:GLY:N	2.27	0.59
1:C:442:SER:O	1:C:446:HIS:CG	2.55	0.59
1:C:548:LYS:HZ2	1:C:601:GLN:H	1.51	0.59
1:D:186:CYS:O	1:D:187:ASN:ND2	2.35	0.59
1:D:248:GLN:CD	1:D:268:PHE:CE2	2.74	0.59
1:D:819:PHE:HD1	1:D:830:LEU:HD13	1.68	0.59
1:E:444:VAL:HG22	1:E:478:ILE:HG12	1.85	0.59
1:E:819:PHE:HD1	1:E:830:LEU:HD13	1.68	0.59
1:F:11:GLN:NE2	1:F:70:GLU:OE1	2.36	0.59
1:G:504:ASP:OD2	1:G:509:ASN:O	2.21	0.59
1:G:499:GLN:HB2	1:G:520:GLN:NE2	2.18	0.59
1:H:186:CYS:O	1:H:187:ASN:ND2	2.35	0.59
1:H:24:VAL:HA	1:H:58:THR:HG21	1.85	0.59
1:I:919:VAL:HG12	1:I:933:THR:HG22	1.83	0.59
1:J:444:VAL:HG22	1:J:478:ILE:HG12	1.85	0.59
1:J:633:THR:HG21	1:J:643:TYR:CA	2.33	0.59
1:J:819:PHE:HD1	1:J:830:LEU:HD13	1.68	0.59
1:K:1055:GLU:HG3	1:K:1056:GLU:H	1.68	0.59
1:K:186:CYS:O	1:K:187:ASN:ND2	2.35	0.59
1:K:819:PHE:HD1	1:K:830:LEU:HD13	1.68	0.59
1:M:130:PRO:HA	1:M:290:MET:HE1	1.85	0.59
1:M:53:ASP:O	1:M:57:GLY:N	2.27	0.59
1:O:504:ASP:OD2	1:O:509:ASN:O	2.21	0.59
1:P:499:GLN:HB2	1:P:520:GLN:NE2	2.18	0.59
1:P:11:GLN:NE2	1:P:70:GLU:OE1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:769:ARG:HH12	1:P:771:PHE:HB2	1.67	0.59
1:A:316:VAL:O	1:A:316:VAL:HG23	2.02	0.58
1:A:371:ARG:HB3	1:A:389:ILE:HG21	1.85	0.58
1:A:511:SER:HA	1:A:514:ILE:N	2.17	0.58
1:A:499:GLN:HB2	1:A:520:GLN:NE2	2.18	0.58
1:D:24:VAL:HA	1:D:58:THR:HG21	1.85	0.58
1:D:444:VAL:HG22	1:D:478:ILE:HG12	1.85	0.58
1:E:314:ARG:O	1:E:315:GLU:HB2	2.03	0.58
1:F:365:TYR:O	1:F:368:MET:N	2.21	0.58
1:F:499:GLN:HB2	1:F:520:GLN:NE2	2.18	0.58
1:F:519:GLN:HG2	1:F:523:PHE:CE2	2.37	0.58
1:G:11:GLN:NE2	1:G:70:GLU:OE1	2.36	0.58
1:G:769:ARG:HH12	1:G:771:PHE:HB2	1.67	0.58
1:H:518:LEU:HA	1:H:521:LEU:HB3	1.84	0.58
1:I:712:LEU:HD13	1:I:738:ASN:HD22	1.67	0.58
1:J:314:ARG:O	1:J:315:GLU:HB2	2.03	0.58
1:J:504:ASP:OD2	1:J:509:ASN:O	2.21	0.58
1:K:248:GLN:CD	1:K:268:PHE:CE2	2.74	0.58
1:K:444:VAL:HG22	1:K:478:ILE:HG12	1.85	0.58
1:K:499:GLN:HB2	1:K:520:GLN:NE2	2.18	0.58
1:L:548:LYS:NZ	1:L:601:GLN:CA	2.61	0.58
1:M:769:ARG:HH12	1:M:771:PHE:HB2	1.67	0.58
1:M:819:PHE:HD1	1:M:830:LEU:HD13	1.68	0.58
1:N:188:SER:N	1:N:251:APK:O2P	2.31	0.58
1:N:637:LEU:O	1:N:638:GLU:CB	2.43	0.58
1:N:11:GLN:NE2	1:N:70:GLU:OE1	2.36	0.58
1:O:186:CYS:O	1:O:187:ASN:ND2	2.35	0.58
1:O:519:GLN:HG2	1:O:523:PHE:CE2	2.37	0.58
1:O:11:GLN:NE2	1:O:70:GLU:OE1	2.36	0.58
1:P:314:ARG:O	1:P:315:GLU:HB2	2.03	0.58
1:P:919:VAL:HG12	1:P:933:THR:HG22	1.83	0.58
1:A:11:GLN:NE2	1:A:70:GLU:OE1	2.36	0.58
1:A:819:PHE:HD1	1:A:830:LEU:HD13	1.68	0.58
1:B:365:TYR:O	1:B:368:MET:N	2.21	0.58
1:B:517:THR:O	1:B:519:GLN:N	2.35	0.58
1:B:819:PHE:HD1	1:B:830:LEU:HD13	1.68	0.58
1:C:819:PHE:HD1	1:C:830:LEU:HD13	1.68	0.58
1:D:1055:GLU:HG3	1:D:1056:GLU:H	1.68	0.58
1:D:499:GLN:HB2	1:D:520:GLN:NE2	2.18	0.58
1:E:130:PRO:HA	1:E:290:MET:HE1	1.85	0.58
1:E:504:ASP:OD2	1:E:509:ASN:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:314:ARG:O	1:G:315:GLU:HB2	2.03	0.58
1:H:11:GLN:NE2	1:H:70:GLU:OE1	2.36	0.58
1:I:11:GLN:NE2	1:I:70:GLU:OE1	2.36	0.58
1:L:24:VAL:HA	1:L:58:THR:HG21	1.85	0.58
1:L:519:GLN:HG2	1:L:523:PHE:CE2	2.37	0.58
1:L:819:PHE:HD1	1:L:830:LEU:HD13	1.68	0.58
1:M:365:TYR:O	1:M:368:MET:N	2.21	0.58
1:M:517:THR:O	1:M:519:GLN:N	2.35	0.58
1:N:316:VAL:O	1:N:316:VAL:HG23	2.02	0.58
1:N:371:ARG:HB3	1:N:389:ILE:HG21	1.85	0.58
1:N:819:PHE:HD1	1:N:830:LEU:HD13	1.68	0.58
1:P:252:ALA:O	1:P:255:ALA:N	2.25	0.58
1:P:631:LEU:HD23	1:P:646:ARG:HH21	1.66	0.58
1:A:130:PRO:HA	1:A:290:MET:HE1	1.85	0.58
1:B:769:ARG:HH12	1:B:771:PHE:HB2	1.67	0.58
1:C:519:GLN:HG2	1:C:523:PHE:CE2	2.37	0.58
1:E:371:ARG:HB3	1:E:389:ILE:HG21	1.85	0.58
1:E:633:THR:HG21	1:E:643:TYR:CA	2.33	0.58
1:F:557:LYS:HZ2	1:F:1223:GLN:HG3	1.68	0.58
1:F:458:LEU:HA	1:F:587:ARG:NH2	2.19	0.58
1:G:919:VAL:HG12	1:G:933:THR:HG22	1.83	0.58
1:H:519:GLN:HG2	1:H:523:PHE:CE2	2.37	0.58
1:J:130:PRO:HA	1:J:290:MET:HE1	1.85	0.58
1:J:371:ARG:HB3	1:J:389:ILE:HG21	1.85	0.58
1:K:24:VAL:HA	1:K:58:THR:HG21	1.85	0.58
1:L:499:GLN:HB2	1:L:520:GLN:NE2	2.18	0.58
1:N:511:SER:HA	1:N:514:ILE:N	2.17	0.58
1:N:499:GLN:HB2	1:N:520:GLN:NE2	2.18	0.58
1:O:371:ARG:HB3	1:O:389:ILE:HG21	1.85	0.58
1:P:1055:GLU:HG3	1:P:1056:GLU:H	1.68	0.58
1:P:819:PHE:HD1	1:P:830:LEU:HD13	1.68	0.58
1:A:517:THR:O	1:A:519:GLN:N	2.35	0.58
1:C:194:GLU:O	1:C:197:GLN:N	2.37	0.58
1:C:313:PRO:HA	1:C:338:TRP:HH2	1.63	0.58
1:C:316:VAL:O	1:C:316:VAL:HG23	2.02	0.58
1:C:499:GLN:HB2	1:C:520:GLN:NE2	2.18	0.58
1:C:637:LEU:O	1:C:638:GLU:CB	2.43	0.58
1:E:198:LYS:HZ1	1:F:222:HIS:CG	2.22	0.58
1:E:336:ALA:HA	1:E:340:ASN:HB3	1.85	0.58
1:G:1055:GLU:HG3	1:G:1056:GLU:H	1.68	0.58
1:F:111:ASP:HB3	1:G:144:ALA:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:14:ASP:OD2	1:H:142:ARG:NH1	2.36	0.58
1:G:194:GLU:O	1:G:197:GLN:N	2.37	0.58
1:G:511:SER:HA	1:G:514:ILE:N	2.18	0.58
1:G:458:LEU:HA	1:G:587:ARG:NH2	2.19	0.58
1:G:819:PHE:HD1	1:G:830:LEU:HD13	1.68	0.58
1:H:371:ARG:HB3	1:H:389:ILE:HG21	1.85	0.58
1:H:444:VAL:HG22	1:H:478:ILE:HG12	1.85	0.58
1:I:194:GLU:O	1:I:197:GLN:N	2.37	0.58
1:I:519:GLN:HG2	1:I:523:PHE:CE2	2.37	0.58
1:J:336:ALA:HA	1:J:340:ASN:HB3	1.85	0.58
1:L:1055:GLU:HG3	1:L:1056:GLU:H	1.68	0.58
1:N:194:GLU:O	1:N:197:GLN:N	2.37	0.58
1:N:130:PRO:HA	1:N:290:MET:HE1	1.85	0.58
1:N:451:LYS:HD3	1:N:486:LEU:CD2	2.26	0.58
1:N:517:THR:O	1:N:519:GLN:N	2.35	0.58
1:O:1055:GLU:HG3	1:O:1056:GLU:H	1.68	0.58
1:O:444:VAL:HG22	1:O:478:ILE:HG12	1.85	0.58
1:O:518:LEU:HA	1:O:521:LEU:HB3	1.84	0.58
1:P:511:SER:HA	1:P:514:ILE:N	2.17	0.58
1:P:458:LEU:HA	1:P:587:ARG:NH2	2.19	0.58
1:A:194:GLU:O	1:A:197:GLN:N	2.37	0.58
1:A:458:LEU:HA	1:A:587:ARG:NH2	2.19	0.58
1:B:121:ALA:HB1	1:C:276:SER:HB2	1.79	0.58
1:D:319:THR:O	1:D:320:ASN:ND2	2.37	0.58
1:E:882:LEU:HG	1:E:883:ILE:HG13	1.86	0.58
1:F:1055:GLU:HG3	1:F:1056:GLU:H	1.68	0.58
1:F:194:GLU:O	1:F:197:GLN:N	2.37	0.58
1:H:1055:GLU:HG3	1:H:1056:GLU:H	1.68	0.58
1:H:314:ARG:O	1:H:315:GLU:HB2	2.03	0.58
1:I:458:LEU:HA	1:I:587:ARG:NH2	2.19	0.58
1:K:314:ARG:O	1:K:315:GLU:HB2	2.03	0.58
1:K:319:THR:O	1:K:320:ASN:ND2	2.37	0.58
1:K:371:ARG:HB3	1:K:389:ILE:HG21	1.85	0.58
1:N:504:ASP:OD2	1:N:509:ASN:O	2.21	0.58
1:P:194:GLU:O	1:P:197:GLN:N	2.37	0.58
1:P:519:GLN:HG2	1:P:523:PHE:CE2	2.37	0.58
1:A:1055:GLU:HG3	1:A:1056:GLU:H	1.68	0.58
1:B:319:THR:O	1:B:320:ASN:ND2	2.37	0.58
1:B:637:LEU:O	1:B:638:GLU:CB	2.43	0.58
1:F:518:LEU:HA	1:F:521:LEU:HB3	1.84	0.58
1:G:24:VAL:HA	1:G:58:THR:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:319:THR:O	1:G:320:ASN:ND2	2.37	0.58
1:I:1055:GLU:HG3	1:I:1056:GLU:H	1.68	0.58
1:I:130:PRO:HA	1:I:290:MET:HE1	1.85	0.58
1:J:1055:GLU:HG3	1:J:1056:GLU:H	1.68	0.58
1:J:882:LEU:HG	1:J:883:ILE:HG13	1.86	0.58
1:L:194:GLU:O	1:L:197:GLN:N	2.37	0.58
1:L:313:PRO:HA	1:L:338:TRP:HH2	1.63	0.58
1:L:371:ARG:HB3	1:L:389:ILE:HG21	1.85	0.58
1:L:444:VAL:HG22	1:L:478:ILE:HG12	1.85	0.58
1:M:1055:GLU:HG3	1:M:1056:GLU:H	1.68	0.58
1:M:319:THR:O	1:M:320:ASN:ND2	2.37	0.58
1:M:371:ARG:HB3	1:M:389:ILE:HG21	1.85	0.58
1:N:1055:GLU:HG3	1:N:1056:GLU:H	1.68	0.58
1:N:458:LEU:HA	1:N:587:ARG:NH2	2.19	0.58
1:O:319:THR:O	1:O:320:ASN:ND2	2.37	0.58
1:P:24:VAL:HA	1:P:58:THR:HG21	1.85	0.58
1:P:319:THR:O	1:P:320:ASN:ND2	2.37	0.58
1:A:504:ASP:OD2	1:A:509:ASN:O	2.21	0.58
1:A:492:LEU:HD21	1:A:562:LEU:HD23	1.86	0.58
1:B:1055:GLU:HG3	1:B:1056:GLU:H	1.68	0.58
1:B:371:ARG:HB3	1:B:389:ILE:HG21	1.85	0.58
1:B:548:LYS:HZ2	1:B:601:GLN:H	1.52	0.58
1:C:882:LEU:HG	1:C:883:ILE:HG13	1.86	0.58
1:D:194:GLU:O	1:D:197:GLN:N	2.37	0.58
1:D:314:ARG:O	1:D:315:GLU:HB2	2.03	0.58
1:D:371:ARG:HB3	1:D:389:ILE:HG21	1.85	0.58
1:E:24:VAL:HA	1:E:58:THR:HG21	1.85	0.58
1:G:336:ALA:HA	1:G:340:ASN:HB3	1.85	0.58
1:G:519:GLN:HG2	1:G:523:PHE:CE2	2.37	0.58
1:G:563:ARG:HD3	1:G:566:LEU:HD12	1.86	0.58
1:H:319:THR:O	1:H:320:ASN:ND2	2.37	0.58
1:I:819:PHE:HD1	1:I:830:LEU:HD13	1.68	0.58
1:J:24:VAL:HA	1:J:58:THR:HG21	1.85	0.58
1:L:11:GLN:NE2	1:L:70:GLU:OE1	2.36	0.58
1:L:882:LEU:HG	1:L:883:ILE:HG13	1.86	0.58
1:M:317:LEU:C	1:M:318:THR:HG1	1.95	0.58
1:N:492:LEU:HD21	1:N:562:LEU:HD23	1.86	0.58
1:O:316:VAL:HG23	1:O:316:VAL:O	2.02	0.58
1:P:553:LEU:HB3	1:P:556:SER:OG	2.04	0.58
1:P:563:ARG:HD3	1:P:566:LEU:HD12	1.86	0.58
1:B:548:LYS:NZ	1:B:601:GLN:CA	2.61	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1055:GLU:HG3	1:C:1056:GLU:H	1.68	0.58
1:C:11:GLN:NE2	1:C:70:GLU:OE1	2.36	0.58
1:D:397:ASP:O	1:D:401:VAL:N	2.28	0.58
1:D:458:LEU:HA	1:D:587:ARG:NH2	2.19	0.58
1:E:1055:GLU:HG3	1:E:1056:GLU:H	1.68	0.58
1:G:553:LEU:HB3	1:G:556:SER:OG	2.04	0.58
1:I:518:LEU:HA	1:I:521:LEU:HB3	1.84	0.58
1:I:492:LEU:HD21	1:I:562:LEU:HD23	1.85	0.58
1:J:194:GLU:O	1:J:197:GLN:N	2.37	0.58
1:J:319:THR:O	1:J:320:ASN:ND2	2.37	0.58
1:K:194:GLU:O	1:K:197:GLN:N	2.37	0.58
1:M:194:GLU:O	1:M:197:GLN:N	2.37	0.58
1:M:458:LEU:HA	1:M:587:ARG:NH2	2.19	0.58
1:N:248:GLN:CD	1:N:268:PHE:CE2	2.74	0.58
1:P:517:THR:O	1:P:519:GLN:N	2.35	0.58
1:B:194:GLU:O	1:B:197:GLN:N	2.37	0.58
1:B:444:VAL:HG22	1:B:478:ILE:HG12	1.85	0.58
1:B:553:LEU:HB3	1:B:556:SER:OG	2.04	0.58
1:B:882:LEU:HG	1:B:883:ILE:HG13	1.86	0.58
1:D:316:VAL:O	1:D:316:VAL:HG23	2.02	0.58
1:E:194:GLU:O	1:E:197:GLN:N	2.37	0.58
1:F:492:LEU:HD21	1:F:562:LEU:HD23	1.86	0.58
1:G:517:THR:O	1:G:519:GLN:N	2.35	0.58
1:H:316:VAL:O	1:H:316:VAL:HG23	2.02	0.58
1:H:553:LEU:HB3	1:H:556:SER:OG	2.04	0.58
1:K:316:VAL:O	1:K:316:VAL:HG23	2.03	0.58
1:K:458:LEU:HA	1:K:587:ARG:NH2	2.19	0.58
1:L:365:TYR:O	1:L:368:MET:N	2.21	0.58
1:L:458:LEU:HA	1:L:587:ARG:NH2	2.19	0.58
1:M:444:VAL:HG22	1:M:478:ILE:HG12	1.85	0.58
1:M:553:LEU:HB3	1:M:556:SER:OG	2.04	0.58
1:M:882:LEU:HG	1:M:883:ILE:HG13	1.86	0.58
1:O:194:GLU:O	1:O:197:GLN:N	2.37	0.58
1:P:336:ALA:HA	1:P:340:ASN:HB3	1.85	0.58
1:A:553:LEU:HB3	1:A:556:SER:OG	2.04	0.58
1:B:458:LEU:HA	1:B:587:ARG:NH2	2.19	0.58
1:C:444:VAL:HG22	1:C:478:ILE:HG12	1.85	0.58
1:C:499:GLN:HA	1:C:502:ARG:HD2	1.86	0.58
1:C:458:LEU:HA	1:C:587:ARG:NH2	2.19	0.58
1:E:319:THR:O	1:E:320:ASN:ND2	2.37	0.58
1:F:819:PHE:HD1	1:F:830:LEU:HD13	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:194:GLU:O	1:H:197:GLN:N	2.37	0.58
1:H:188:SER:N	1:H:251:APK:O2P	2.31	0.58
1:H:819:PHE:HD1	1:H:830:LEU:HD13	1.68	0.58
1:I:1031:ILE:HD11	1:I:1068:ILE:HD13	1.86	0.58
1:I:882:LEU:HG	1:I:883:ILE:HG13	1.86	0.58
1:L:314:ARG:O	1:L:315:GLU:HB2	2.03	0.58
1:L:316:VAL:HG23	1:L:316:VAL:O	2.03	0.58
1:N:319:THR:O	1:N:320:ASN:ND2	2.37	0.58
1:N:553:LEU:HB3	1:N:556:SER:OG	2.04	0.58
1:O:492:LEU:HD21	1:O:562:LEU:HD23	1.86	0.58
1:O:553:LEU:HB3	1:O:556:SER:OG	2.04	0.58
1:P:378:SER:HA	1:P:422:ILE:HD12	1.84	0.58
1:A:319:THR:O	1:A:320:ASN:ND2	2.37	0.57
1:B:336:ALA:HA	1:B:340:ASN:HB3	1.85	0.57
1:C:371:ARG:HB3	1:C:389:ILE:HG21	1.85	0.57
1:D:553:LEU:HB3	1:D:556:SER:OG	2.04	0.57
1:D:882:LEU:HG	1:D:883:ILE:HG13	1.86	0.57
1:E:458:LEU:HA	1:E:587:ARG:NH2	2.19	0.57
1:F:1031:ILE:HD11	1:F:1068:ILE:HD13	1.86	0.57
1:F:114:TYR:O	1:F:117:ASN:N	2.36	0.57
1:G:378:SER:HA	1:G:422:ILE:HD12	1.84	0.57
1:I:600:ARG:NE	1:I:1229:GLU:OE1	2.37	0.57
1:J:458:LEU:HA	1:J:587:ARG:NH2	2.19	0.57
1:K:553:LEU:HB3	1:K:556:SER:OG	2.04	0.57
1:K:882:LEU:HG	1:K:883:ILE:HG13	1.86	0.57
1:L:369:PHE:O	1:L:372:LEU:N	2.37	0.57
1:M:336:ALA:HA	1:M:340:ASN:HB3	1.85	0.57
1:M:378:SER:H	1:M:422:ILE:HD13	1.62	0.57
1:M:548:LYS:NZ	1:M:601:GLN:CA	2.61	0.57
1:N:336:ALA:HA	1:N:340:ASN:HB3	1.85	0.57
1:O:769:ARG:HH12	1:O:771:PHE:HB2	1.67	0.57
1:A:369:PHE:O	1:A:372:LEU:N	2.37	0.57
1:A:444:VAL:HG22	1:A:478:ILE:HG12	1.85	0.57
1:A:633:THR:HG21	1:A:643:TYR:CA	2.33	0.57
1:B:369:PHE:O	1:B:372:LEU:N	2.37	0.57
1:B:499:GLN:HA	1:B:502:ARG:HD2	1.86	0.57
1:B:504:ASP:OD2	1:B:509:ASN:O	2.21	0.57
1:C:314:ARG:O	1:C:315:GLU:HB2	2.03	0.57
1:C:336:ALA:HA	1:C:340:ASN:HB3	1.85	0.57
1:C:553:LEU:HB3	1:C:556:SER:OG	2.04	0.57
1:D:11:GLN:NE2	1:D:70:GLU:OE1	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:553:LEU:HB3	1:F:556:SER:OG	2.04	0.57
1:F:600:ARG:NE	1:F:1229:GLU:OE1	2.37	0.57
1:F:882:LEU:HG	1:F:883:ILE:HG13	1.86	0.57
1:G:492:LEU:HD21	1:G:562:LEU:HD23	1.85	0.57
1:H:492:LEU:HD21	1:H:562:LEU:HD23	1.86	0.57
1:H:769:ARG:HH12	1:H:771:PHE:HB2	1.67	0.57
1:I:553:LEU:HB3	1:I:556:SER:OG	2.04	0.57
1:K:1031:ILE:HD11	1:K:1068:ILE:HD13	1.86	0.57
1:K:499:GLN:HA	1:K:502:ARG:HD2	1.86	0.57
1:K:504:ASP:OD2	1:K:509:ASN:O	2.21	0.57
1:K:11:GLN:NE2	1:K:70:GLU:OE1	2.36	0.57
1:L:557:LYS:HZ2	1:L:1223:GLN:HG3	1.68	0.57
1:M:369:PHE:O	1:M:372:LEU:N	2.37	0.57
1:M:499:GLN:HA	1:M:502:ARG:HD2	1.86	0.57
1:M:504:ASP:OD2	1:M:509:ASN:O	2.21	0.57
1:N:369:PHE:O	1:N:372:LEU:N	2.37	0.57
1:N:444:VAL:HG22	1:N:478:ILE:HG12	1.85	0.57
1:O:819:PHE:HD1	1:O:830:LEU:HD13	1.68	0.57
1:P:365:TYR:O	1:P:368:MET:N	2.21	0.57
1:P:492:LEU:HD21	1:P:562:LEU:HD23	1.85	0.57
1:A:336:ALA:HA	1:A:340:ASN:HB3	1.85	0.57
1:C:369:PHE:O	1:C:372:LEU:N	2.38	0.57
1:D:1031:ILE:HD11	1:D:1068:ILE:HD13	1.86	0.57
1:D:369:PHE:O	1:D:372:LEU:N	2.38	0.57
1:D:504:ASP:OD2	1:D:509:ASN:O	2.21	0.57
1:E:11:GLN:NE2	1:E:70:GLU:OE1	2.36	0.57
1:F:603:ILE:HD11	1:F:635:VAL:HG13	1.87	0.57
1:H:458:LEU:HA	1:H:587:ARG:NH2	2.19	0.57
1:I:319:THR:O	1:I:320:ASN:ND2	2.37	0.57
1:I:603:ILE:HD11	1:I:635:VAL:HG13	1.87	0.57
1:K:369:PHE:O	1:K:372:LEU:N	2.38	0.57
1:K:397:ASP:O	1:K:401:VAL:N	2.28	0.57
1:L:114:TYR:O	1:L:117:ASN:N	2.36	0.57
1:L:319:THR:O	1:L:320:ASN:ND2	2.37	0.57
1:L:499:GLN:HA	1:L:502:ARG:HD2	1.86	0.57
1:M:548:LYS:HZ2	1:M:601:GLN:H	1.53	0.57
1:N:633:THR:HG21	1:N:643:TYR:CA	2.33	0.57
1:C:319:THR:O	1:C:320:ASN:ND2	2.37	0.57
1:D:499:GLN:HA	1:D:502:ARG:HD2	1.86	0.57
1:G:365:TYR:O	1:G:368:MET:N	2.21	0.57
1:A:142:ARG:NH1	1:H:14:ASP:OD2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:24:VAL:HA	1:I:58:THR:HG21	1.85	0.57
1:J:369:PHE:O	1:J:372:LEU:N	2.37	0.57
1:L:378:SER:HA	1:L:422:ILE:HD12	1.84	0.57
1:L:504:ASP:OD2	1:L:509:ASN:O	2.21	0.57
1:O:188:SER:N	1:O:251:APK:O2P	2.31	0.57
1:O:603:ILE:HD11	1:O:635:VAL:HG13	1.87	0.57
1:A:518:LEU:HD22	1:A:643:TYR:CE1	2.22	0.57
1:B:378:SER:H	1:B:422:ILE:HD13	1.62	0.57
1:B:951:VAL:HA	1:B:987:VAL:HG11	1.87	0.57
1:C:378:SER:HA	1:C:422:ILE:HD12	1.84	0.57
1:C:504:ASP:OD2	1:C:509:ASN:O	2.21	0.57
1:E:369:PHE:O	1:E:372:LEU:N	2.37	0.57
1:H:603:ILE:HD11	1:H:635:VAL:HG13	1.87	0.57
1:I:563:ARG:HD3	1:I:566:LEU:HD12	1.86	0.57
1:J:11:GLN:NE2	1:J:70:GLU:OE1	2.36	0.57
1:L:553:LEU:HB3	1:L:556:SER:OG	2.04	0.57
1:M:518:LEU:HD22	1:M:643:TYR:CE1	2.22	0.57
1:B:423:PRO:O	1:B:424:SER:HB3	2.05	0.57
1:B:518:LEU:HD22	1:B:643:TYR:CE1	2.22	0.57
1:C:423:PRO:O	1:C:424:SER:HB3	2.05	0.57
1:D:557:LYS:HZ2	1:D:1223:GLN:HG3	1.69	0.57
1:D:548:LYS:HZ2	1:D:601:GLN:H	1.51	0.57
1:D:553:LEU:HB3	1:D:556:SER:HG	1.69	0.57
1:E:557:LYS:CE	1:E:1224:LEU:O	2.51	0.57
1:F:24:VAL:HA	1:F:58:THR:HG21	1.85	0.57
1:F:563:ARG:HD3	1:F:566:LEU:HD12	1.86	0.57
1:H:248:GLN:CD	1:H:268:PHE:CE2	2.74	0.57
1:H:369:PHE:O	1:H:372:LEU:N	2.38	0.57
1:I:423:PRO:O	1:I:424:SER:HB3	2.05	0.57
1:M:314:ARG:O	1:M:315:GLU:HB2	2.03	0.57
1:M:951:VAL:HA	1:M:987:VAL:HG11	1.87	0.57
1:N:124:ASN:H	1:N:303:LYS:HZ3	1.53	0.57
1:N:472:GLY:HA2	1:N:475:LEU:HD12	1.87	0.57
1:N:518:LEU:HD22	1:N:643:TYR:CE1	2.22	0.57
1:N:563:ARG:HD3	1:N:566:LEU:HD12	1.86	0.57
1:O:1177:TYR:HE2	1:P:916:LYS:HE2	1.70	0.57
1:O:458:LEU:HA	1:O:587:ARG:NH2	2.19	0.57
1:P:301:LEU:HD23	1:P:313:PRO:CD	2.35	0.57
1:P:633:THR:HG21	1:P:643:TYR:CA	2.33	0.57
1:A:472:GLY:HA2	1:A:475:LEU:HD12	1.87	0.57
1:A:563:ARG:HD3	1:A:566:LEU:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:882:LEU:HG	1:A:883:ILE:HG13	1.86	0.57
1:E:248:GLN:CD	1:E:268:PHE:CE2	2.74	0.57
1:F:319:THR:O	1:F:320:ASN:ND2	2.37	0.57
1:G:301:LEU:HD23	1:G:313:PRO:CD	2.35	0.57
1:G:442:SER:O	1:G:446:HIS:CG	2.55	0.57
1:G:505:SER:OG	1:G:513:SER:OG	2.05	0.57
1:H:449:ILE:HB	1:H:450:PRO:HD3	1.86	0.57
1:H:563:ARG:HD3	1:H:566:LEU:HD12	1.86	0.57
1:J:378:SER:H	1:J:422:ILE:HD13	1.62	0.57
1:L:336:ALA:HA	1:L:340:ASN:HB3	1.85	0.57
1:L:423:PRO:O	1:L:424:SER:HB3	2.05	0.57
1:L:472:GLY:HA2	1:L:475:LEU:HD12	1.87	0.57
1:M:423:PRO:O	1:M:424:SER:HB3	2.05	0.57
1:O:369:PHE:O	1:O:372:LEU:N	2.38	0.57
1:P:882:LEU:HG	1:P:883:ILE:HG13	1.86	0.57
1:A:449:ILE:HB	1:A:450:PRO:HD3	1.87	0.57
1:B:472:GLY:HA2	1:B:475:LEU:HD12	1.87	0.57
1:B:603:ILE:HD11	1:B:635:VAL:HG13	1.87	0.57
1:D:423:PRO:O	1:D:424:SER:HB3	2.05	0.57
1:F:115:ASN:HB3	1:G:257:ASN:OD1	2.04	0.57
1:G:371:ARG:HD3	1:G:435:ASN:HD21	1.70	0.57
1:G:499:GLN:HA	1:G:502:ARG:HD2	1.86	0.57
1:G:600:ARG:NE	1:G:1229:GLU:OE1	2.37	0.57
1:G:633:THR:HG21	1:G:643:TYR:CA	2.33	0.57
1:G:882:LEU:HG	1:G:883:ILE:HG13	1.86	0.57
1:H:301:LEU:HD23	1:H:313:PRO:CD	2.35	0.57
1:I:114:TYR:O	1:I:117:ASN:N	2.36	0.57
1:J:557:LYS:CE	1:J:1224:LEU:O	2.51	0.57
1:J:423:PRO:O	1:J:424:SER:HB3	2.05	0.57
1:K:423:PRO:O	1:K:424:SER:HB3	2.05	0.57
1:K:472:GLY:HA2	1:K:475:LEU:HD12	1.87	0.57
1:K:603:ILE:HD11	1:K:635:VAL:HG13	1.87	0.57
1:M:472:GLY:HA2	1:M:475:LEU:HD12	1.87	0.57
1:M:603:ILE:HD11	1:M:635:VAL:HG13	1.87	0.57
1:N:449:ILE:HB	1:N:450:PRO:HD3	1.87	0.57
1:O:248:GLN:CD	1:O:268:PHE:CE2	2.74	0.57
1:O:301:LEU:HD23	1:O:313:PRO:CD	2.35	0.57
1:O:449:ILE:HB	1:O:450:PRO:HD3	1.86	0.57
1:O:472:GLY:HA2	1:O:475:LEU:HD12	1.87	0.57
1:P:371:ARG:HD3	1:P:435:ASN:HD21	1.70	0.57
1:P:442:SER:O	1:P:446:HIS:CG	2.55	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:600:ARG:NE	1:P:1229:GLU:OE1	2.37	0.57
1:B:314:ARG:O	1:B:315:GLU:HB2	2.03	0.57
1:C:472:GLY:HA2	1:C:475:LEU:HD12	1.87	0.57
1:D:472:GLY:HA2	1:D:475:LEU:HD12	1.87	0.57
1:D:603:ILE:HD11	1:D:635:VAL:HG13	1.87	0.57
1:E:600:ARG:NE	1:E:1229:GLU:OE1	2.37	0.57
1:F:423:PRO:O	1:F:424:SER:HB3	2.05	0.57
1:H:336:ALA:O	1:H:338:TRP:N	2.38	0.57
1:H:371:ARG:HD3	1:H:435:ASN:HD21	1.70	0.57
1:H:472:GLY:HA2	1:H:475:LEU:HD12	1.87	0.57
1:I:124:ASN:H	1:I:303:LYS:NZ	2.03	0.57
1:I:301:LEU:HD23	1:I:313:PRO:CD	2.35	0.57
1:I:336:ALA:HA	1:I:340:ASN:HB3	1.85	0.57
1:I:557:LYS:HZ2	1:I:1223:GLN:HG3	1.69	0.57
1:J:248:GLN:CD	1:J:268:PHE:CE2	2.74	0.57
1:N:371:ARG:HD3	1:N:435:ASN:HD21	1.70	0.57
1:N:769:ARG:HH12	1:N:771:PHE:HB2	1.67	0.57
1:N:882:LEU:HG	1:N:883:ILE:HG13	1.86	0.57
1:O:336:ALA:O	1:O:338:TRP:N	2.38	0.57
1:O:371:ARG:HD3	1:O:435:ASN:HD21	1.70	0.57
1:O:882:LEU:HG	1:O:883:ILE:HG13	1.86	0.57
1:P:124:ASN:H	1:P:303:LYS:NZ	2.03	0.57
1:P:499:GLN:HA	1:P:502:ARG:HD2	1.86	0.57
1:B:347:ASP:OD1	1:B:348:LYS:N	2.37	0.57
1:B:563:ARG:HD3	1:B:566:LEU:HD12	1.86	0.57
1:D:155:SER:HA	1:D:321:PRO:HD2	1.87	0.57
1:E:423:PRO:O	1:E:424:SER:HB3	2.05	0.57
1:E:449:ILE:HB	1:E:450:PRO:HD3	1.86	0.57
1:E:472:GLY:HA2	1:E:475:LEU:HD12	1.87	0.57
1:F:124:ASN:H	1:F:303:LYS:NZ	2.03	0.57
1:F:301:LEU:HD23	1:F:313:PRO:CD	2.35	0.57
1:F:371:ARG:HD3	1:F:435:ASN:HD21	1.70	0.57
1:F:198:LYS:NZ	1:G:222:HIS:CD2	2.73	0.57
1:G:124:ASN:H	1:G:303:LYS:NZ	2.03	0.57
1:G:458:LEU:CD2	1:G:459:ILE:H	2.18	0.57
1:H:336:ALA:HA	1:H:340:ASN:HB3	1.85	0.57
1:H:423:PRO:O	1:H:424:SER:HB3	2.05	0.57
1:H:458:LEU:CD2	1:H:459:ILE:H	2.18	0.57
1:K:155:SER:HA	1:K:321:PRO:HD2	1.87	0.57
1:K:951:VAL:HA	1:K:987:VAL:HG11	1.87	0.57
1:M:347:ASP:OD1	1:M:348:LYS:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:563:ARG:HD3	1:M:566:LEU:HD12	1.86	0.57
1:O:458:LEU:CD2	1:O:459:ILE:H	2.18	0.57
1:O:563:ARG:HD3	1:O:566:LEU:HD12	1.86	0.57
1:O:951:VAL:HA	1:O:987:VAL:HG11	1.87	0.57
1:A:371:ARG:HD3	1:A:435:ASN:HD21	1.70	0.56
1:A:423:PRO:O	1:A:424:SER:HB3	2.05	0.56
1:A:769:ARG:HH12	1:A:771:PHE:HB2	1.67	0.56
1:B:633:THR:HG21	1:B:643:TYR:CA	2.33	0.56
1:C:557:LYS:CE	1:C:1224:LEU:O	2.50	0.56
1:D:124:ASN:H	1:D:303:LYS:NZ	2.03	0.56
1:D:951:VAL:HA	1:D:987:VAL:HG11	1.87	0.56
1:E:124:ASN:H	1:E:303:LYS:NZ	2.03	0.56
1:E:499:GLN:HA	1:E:502:ARG:HD2	1.86	0.56
1:F:336:ALA:O	1:F:338:TRP:N	2.38	0.56
1:H:1058:ILE:HG13	1:H:1059:ASP:H	1.70	0.56
1:H:882:LEU:HG	1:H:883:ILE:HG13	1.86	0.56
1:H:951:VAL:HA	1:H:987:VAL:HG11	1.87	0.56
1:J:124:ASN:H	1:J:303:LYS:NZ	2.03	0.56
1:J:449:ILE:HB	1:J:450:PRO:HD3	1.87	0.56
1:J:600:ARG:NE	1:J:1229:GLU:OE1	2.37	0.56
1:K:124:ASN:H	1:K:303:LYS:NZ	2.03	0.56
1:L:557:LYS:CE	1:L:1224:LEU:O	2.50	0.56
1:M:1058:ILE:HG13	1:M:1059:ASP:H	1.70	0.56
1:M:301:LEU:HD23	1:M:313:PRO:CD	2.35	0.56
1:N:1058:ILE:HG13	1:N:1059:ASP:H	1.70	0.56
1:N:301:LEU:HD23	1:N:313:PRO:CD	2.35	0.56
1:O:1058:ILE:HG13	1:O:1059:ASP:H	1.70	0.56
1:O:336:ALA:HA	1:O:340:ASN:HB3	1.85	0.56
1:O:423:PRO:O	1:O:424:SER:HB3	2.05	0.56
1:P:458:LEU:CD2	1:P:459:ILE:H	2.18	0.56
1:A:301:LEU:HD23	1:A:313:PRO:CD	2.35	0.56
1:B:301:LEU:HD23	1:B:313:PRO:CD	2.35	0.56
1:B:336:ALA:O	1:B:338:TRP:N	2.38	0.56
1:E:548:LYS:HZ2	1:E:601:GLN:H	1.51	0.56
1:F:248:GLN:CD	1:F:268:PHE:CE2	2.74	0.56
1:F:336:ALA:HA	1:F:340:ASN:HB3	1.85	0.56
1:F:518:LEU:N	1:F:518:LEU:HD12	2.20	0.56
1:G:1058:ILE:HG13	1:G:1059:ASP:H	1.70	0.56
1:H:124:ASN:H	1:H:303:LYS:HZ3	1.54	0.56
1:I:336:ALA:O	1:I:338:TRP:N	2.38	0.56
1:I:371:ARG:HD3	1:I:435:ASN:HD21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:155:SER:HA	1:J:321:PRO:HD2	1.87	0.56
1:J:472:GLY:HA2	1:J:475:LEU:HD12	1.87	0.56
1:J:557:LYS:HZ2	1:J:1223:GLN:HG3	1.70	0.56
1:M:336:ALA:O	1:M:338:TRP:N	2.38	0.56
1:M:633:THR:HG21	1:M:643:TYR:CA	2.33	0.56
1:N:423:PRO:O	1:N:424:SER:HB3	2.05	0.56
1:O:124:ASN:H	1:O:303:LYS:HZ3	1.54	0.56
1:A:458:LEU:CD2	1:A:459:ILE:H	2.18	0.56
1:C:124:ASN:H	1:C:303:LYS:NZ	2.03	0.56
1:C:301:LEU:HD23	1:C:313:PRO:CD	2.35	0.56
1:C:633:THR:HG21	1:C:643:TYR:CA	2.33	0.56
1:D:336:ALA:HA	1:D:340:ASN:HB3	1.85	0.56
1:D:486:LEU:O	1:D:488:ARG:HG3	2.06	0.56
1:E:155:SER:HA	1:E:321:PRO:HD2	1.87	0.56
1:E:486:LEU:O	1:E:488:ARG:HG3	2.06	0.56
1:E:557:LYS:HZ2	1:E:1223:GLN:HG3	1.70	0.56
1:F:378:SER:HA	1:F:422:ILE:HD12	1.84	0.56
1:G:449:ILE:HB	1:G:450:PRO:HD3	1.86	0.56
1:H:397:ASP:O	1:H:401:VAL:N	2.28	0.56
1:J:241:LEU:O	1:J:241:LEU:HD12	2.06	0.56
1:J:499:GLN:HA	1:J:502:ARG:HD2	1.86	0.56
1:J:553:LEU:HB3	1:J:556:SER:OG	2.04	0.56
1:K:449:ILE:HB	1:K:450:PRO:HD3	1.86	0.56
1:M:449:ILE:HB	1:M:450:PRO:HD3	1.86	0.56
1:N:155:SER:HA	1:N:321:PRO:HD2	1.87	0.56
1:O:486:LEU:O	1:O:488:ARG:HG3	2.05	0.56
1:P:1058:ILE:HG13	1:P:1059:ASP:H	1.70	0.56
1:A:1058:ILE:HG13	1:A:1059:ASP:H	1.70	0.56
1:A:499:GLN:HA	1:A:502:ARG:HD2	1.86	0.56
1:A:603:ILE:HD11	1:A:635:VAL:HG13	1.87	0.56
1:B:1058:ILE:HG13	1:B:1059:ASP:H	1.70	0.56
1:D:188:SER:N	1:D:251:APK:O2P	2.31	0.56
1:D:301:LEU:HD23	1:D:313:PRO:CD	2.35	0.56
1:D:449:ILE:HB	1:D:450:PRO:HD3	1.86	0.56
1:E:241:LEU:HD12	1:E:241:LEU:O	2.06	0.56
1:F:115:ASN:O	1:G:257:ASN:ND2	2.38	0.56
1:F:472:GLY:HA2	1:F:475:LEU:HD12	1.87	0.56
1:G:155:SER:HA	1:G:321:PRO:HD2	1.87	0.56
1:G:520:GLN:HA	1:G:523:PHE:HD2	1.71	0.56
1:H:1031:ILE:HD11	1:H:1068:ILE:HD13	1.86	0.56
1:H:486:LEU:O	1:H:488:ARG:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:369:PHE:O	1:I:372:LEU:N	2.38	0.56
1:J:301:LEU:HD23	1:J:313:PRO:CD	2.35	0.56
1:J:486:LEU:O	1:J:488:ARG:HG3	2.06	0.56
1:J:518:LEU:N	1:J:518:LEU:HD12	2.20	0.56
1:K:600:ARG:NE	1:K:1229:GLU:OE1	2.37	0.56
1:K:301:LEU:HD23	1:K:313:PRO:CD	2.35	0.56
1:K:336:ALA:O	1:K:338:TRP:N	2.38	0.56
1:L:1058:ILE:HG13	1:L:1059:ASP:H	1.70	0.56
1:L:124:ASN:H	1:L:303:LYS:NZ	2.03	0.56
1:N:314:ARG:O	1:N:315:GLU:HB2	2.03	0.56
1:N:458:LEU:CD2	1:N:459:ILE:H	2.18	0.56
1:N:486:LEU:O	1:N:488:ARG:HG3	2.05	0.56
1:N:499:GLN:HA	1:N:502:ARG:HD2	1.86	0.56
1:P:449:ILE:HB	1:P:450:PRO:HD3	1.87	0.56
1:A:155:SER:HA	1:A:321:PRO:HD2	1.87	0.56
1:A:336:ALA:O	1:A:338:TRP:N	2.38	0.56
1:B:442:SER:O	1:B:446:HIS:CG	2.55	0.56
1:B:449:ILE:HB	1:B:450:PRO:HD3	1.87	0.56
1:B:520:GLN:HA	1:B:523:PHE:HD2	1.71	0.56
1:C:1058:ILE:HG13	1:C:1059:ASP:H	1.70	0.56
1:D:336:ALA:O	1:D:338:TRP:N	2.38	0.56
1:D:563:ARG:HD3	1:D:566:LEU:HD12	1.86	0.56
1:E:301:LEU:HD23	1:E:313:PRO:CD	2.35	0.56
1:E:518:LEU:N	1:E:518:LEU:HD12	2.20	0.56
1:E:553:LEU:HB3	1:E:556:SER:OG	2.04	0.56
1:E:563:ARG:HD3	1:E:566:LEU:HD12	1.86	0.56
1:F:520:GLN:HA	1:F:523:PHE:HD2	1.71	0.56
1:G:369:PHE:O	1:G:372:LEU:N	2.37	0.56
1:H:600:ARG:NE	1:H:1229:GLU:OE1	2.37	0.56
1:I:458:LEU:CD2	1:I:459:ILE:H	2.18	0.56
1:I:520:GLN:HA	1:I:523:PHE:HD2	1.71	0.56
1:J:548:LYS:HZ2	1:J:601:GLN:H	1.51	0.56
1:K:188:SER:N	1:K:251:APK:O2P	2.31	0.56
1:K:336:ALA:HA	1:K:340:ASN:HB3	1.85	0.56
1:K:486:LEU:O	1:K:488:ARG:HG3	2.06	0.56
1:K:553:LEU:HB3	1:K:556:SER:HG	1.70	0.56
1:K:563:ARG:HD3	1:K:566:LEU:HD12	1.86	0.56
1:L:124:ASN:H	1:L:303:LYS:HZ3	1.53	0.56
1:L:301:LEU:HD23	1:L:313:PRO:CD	2.35	0.56
1:N:124:ASN:H	1:N:303:LYS:NZ	2.03	0.56
1:O:1031:ILE:HD11	1:O:1068:ILE:HD13	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:124:ASN:H	1:O:303:LYS:NZ	2.03	0.56
1:P:155:SER:HA	1:P:321:PRO:HD2	1.87	0.56
1:P:369:PHE:O	1:P:372:LEU:N	2.38	0.56
1:P:378:SER:H	1:P:422:ILE:HD13	1.61	0.56
1:P:472:GLY:HA2	1:P:475:LEU:HD12	1.87	0.56
1:A:124:ASN:H	1:A:303:LYS:NZ	2.03	0.56
1:B:371:ARG:HD3	1:B:435:ASN:HD21	1.70	0.56
1:C:347:ASP:OD1	1:C:348:LYS:N	2.37	0.56
1:C:492:LEU:HD21	1:C:562:LEU:HD23	1.86	0.56
1:D:241:LEU:HD12	1:D:241:LEU:O	2.05	0.56
1:D:600:ARG:NE	1:D:1229:GLU:OE1	2.37	0.56
1:E:520:GLN:HA	1:E:523:PHE:HD2	1.71	0.56
1:F:241:LEU:HD12	1:F:241:LEU:O	2.06	0.56
1:F:458:LEU:CD2	1:F:459:ILE:H	2.18	0.56
1:F:486:LEU:O	1:F:488:ARG:HG3	2.06	0.56
1:F:499:GLN:HA	1:F:502:ARG:HD2	1.86	0.56
1:G:472:GLY:HA2	1:G:475:LEU:HD12	1.87	0.56
1:H:350:THR:HA	1:H:353:ILE:HG22	1.88	0.56
1:H:633:THR:HG21	1:H:643:TYR:CA	2.33	0.56
1:I:449:ILE:HB	1:I:450:PRO:HD3	1.86	0.56
1:I:472:GLY:HA2	1:I:475:LEU:HD12	1.87	0.56
1:J:1031:ILE:HD11	1:J:1068:ILE:HD13	1.86	0.56
1:K:241:LEU:O	1:K:241:LEU:HD12	2.06	0.56
1:L:492:LEU:HD21	1:L:562:LEU:HD23	1.86	0.56
1:L:563:ARG:HD3	1:L:566:LEU:HD12	1.86	0.56
1:M:371:ARG:HD3	1:M:435:ASN:HD21	1.70	0.56
1:M:442:SER:O	1:M:446:HIS:CG	2.55	0.56
1:M:520:GLN:HA	1:M:523:PHE:HD2	1.71	0.56
1:N:603:ILE:HD11	1:N:635:VAL:HG13	1.87	0.56
1:O:350:THR:HA	1:O:353:ILE:HG22	1.88	0.56
1:P:248:GLN:CD	1:P:268:PHE:CE2	2.74	0.56
1:P:336:ALA:O	1:P:338:TRP:N	2.38	0.56
1:P:350:THR:HA	1:P:353:ILE:HG22	1.88	0.56
1:P:423:PRO:O	1:P:424:SER:HB3	2.05	0.56
1:P:486:LEU:O	1:P:488:ARG:HG3	2.06	0.56
1:P:520:GLN:HA	1:P:523:PHE:HD2	1.71	0.56
1:A:314:ARG:O	1:A:315:GLU:HB2	2.03	0.56
1:A:486:LEU:O	1:A:488:ARG:HG3	2.06	0.56
1:C:563:ARG:HD3	1:C:566:LEU:HD12	1.86	0.56
1:C:984:LEU:HD12	1:C:1022:ALA:HB2	1.88	0.56
1:F:369:PHE:O	1:F:372:LEU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:946:ARG:HG3	1:F:947:GLU:H	1.71	0.56
1:G:248:GLN:CD	1:G:268:PHE:CE2	2.74	0.56
1:G:336:ALA:O	1:G:338:TRP:N	2.38	0.56
1:G:350:THR:HA	1:G:353:ILE:HG22	1.88	0.56
1:G:378:SER:H	1:G:422:ILE:HD13	1.61	0.56
1:G:423:PRO:O	1:G:424:SER:HB3	2.05	0.56
1:G:486:LEU:O	1:G:488:ARG:HG3	2.06	0.56
1:H:124:ASN:H	1:H:303:LYS:NZ	2.03	0.56
1:J:520:GLN:HA	1:J:523:PHE:HD2	1.71	0.56
1:J:563:ARG:HD3	1:J:566:LEU:HD12	1.86	0.56
1:K:557:LYS:HZ2	1:K:1223:GLN:HG3	1.70	0.56
1:L:241:LEU:HD12	1:L:241:LEU:O	2.06	0.56
1:M:1031:ILE:HD11	1:M:1068:ILE:HD13	1.86	0.56
1:M:124:ASN:H	1:M:303:LYS:NZ	2.03	0.56
1:N:336:ALA:O	1:N:338:TRP:N	2.38	0.56
1:O:600:ARG:NE	1:O:1229:GLU:OE1	2.37	0.56
1:O:518:LEU:HD12	1:O:518:LEU:N	2.20	0.56
1:O:633:THR:HG21	1:O:643:TYR:CA	2.33	0.56
1:A:1031:ILE:HD11	1:A:1068:ILE:HD13	1.86	0.56
1:A:350:THR:HA	1:A:353:ILE:HG22	1.88	0.56
1:B:984:LEU:HD12	1:B:1022:ALA:HB2	1.88	0.56
1:B:1031:ILE:HD11	1:B:1068:ILE:HD13	1.86	0.56
1:B:124:ASN:H	1:B:303:LYS:NZ	2.03	0.56
1:C:155:SER:HA	1:C:321:PRO:HD2	1.87	0.56
1:C:336:ALA:O	1:C:338:TRP:N	2.38	0.56
1:D:378:SER:HA	1:D:422:ILE:HD12	1.84	0.56
1:D:492:LEU:HD21	1:D:562:LEU:HD23	1.86	0.56
1:E:1031:ILE:HD11	1:E:1068:ILE:HD13	1.86	0.56
1:H:557:LYS:CE	1:H:1224:LEU:O	2.50	0.56
1:H:518:LEU:N	1:H:518:LEU:HD12	2.20	0.56
1:I:241:LEU:O	1:I:241:LEU:HD12	2.06	0.56
1:I:486:LEU:O	1:I:488:ARG:HG3	2.06	0.56
1:K:946:ARG:HG3	1:K:947:GLU:H	1.71	0.56
1:L:155:SER:HA	1:L:321:PRO:HD2	1.87	0.56
1:L:347:ASP:OD1	1:L:348:LYS:N	2.37	0.56
1:L:633:THR:HG21	1:L:643:TYR:CA	2.33	0.56
1:O:314:ARG:O	1:O:315:GLU:HB2	2.03	0.56
1:O:397:ASP:O	1:O:401:VAL:N	2.28	0.56
1:O:520:GLN:HA	1:O:523:PHE:HD2	1.71	0.56
1:P:1031:ILE:HD11	1:P:1068:ILE:HD13	1.86	0.56
1:P:603:ILE:HD11	1:P:635:VAL:HG13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:PHE:CD1	1:A:88:LEU:HD21	2.41	0.56
1:B:557:LYS:CE	1:B:1224:LEU:O	2.50	0.56
1:E:371:ARG:HD3	1:E:435:ASN:HD21	1.70	0.56
1:F:350:THR:HA	1:F:353:ILE:HG22	1.88	0.56
1:G:603:ILE:HD11	1:G:635:VAL:HG13	1.87	0.56
1:H:155:SER:HA	1:H:321:PRO:HD2	1.87	0.56
1:H:520:GLN:HA	1:H:523:PHE:HD2	1.71	0.56
1:I:499:GLN:HA	1:I:502:ARG:HD2	1.86	0.56
1:J:1058:ILE:HG13	1:J:1059:ASP:H	1.70	0.56
1:J:383:THR:N	1:J:419:THR:HA	2.21	0.56
1:J:23:PHE:CD1	1:J:88:LEU:HD21	2.41	0.56
1:K:368:MET:HE1	1:K:401:VAL:HG21	1.88	0.56
1:K:492:LEU:HD21	1:K:562:LEU:HD23	1.86	0.56
1:K:633:THR:HG21	1:K:643:TYR:CA	2.33	0.56
1:L:984:LEU:HD12	1:L:1022:ALA:HB2	1.88	0.56
1:M:946:ARG:HG3	1:M:947:GLU:H	1.71	0.56
1:N:350:THR:HA	1:N:353:ILE:HG22	1.88	0.56
1:N:23:PHE:CD1	1:N:88:LEU:HD21	2.41	0.56
1:O:946:ARG:HG3	1:O:947:GLU:H	1.71	0.56
1:B:23:PHE:CD1	1:B:88:LEU:HD21	2.41	0.56
1:B:946:ARG:HG3	1:B:947:GLU:H	1.71	0.56
1:C:241:LEU:HD12	1:C:241:LEU:O	2.06	0.56
1:C:951:VAL:HA	1:C:987:VAL:HG11	1.87	0.56
1:D:946:ARG:HG3	1:D:947:GLU:H	1.71	0.56
1:E:383:THR:N	1:E:419:THR:HA	2.21	0.56
1:E:23:PHE:CD1	1:E:88:LEU:HD21	2.41	0.56
1:F:449:ILE:HB	1:F:450:PRO:HD3	1.87	0.56
1:G:1031:ILE:HD11	1:G:1068:ILE:HD13	1.86	0.56
1:G:508:TRP:C	1:G:606:GLY:CA	2.69	0.56
1:H:241:LEU:HD12	1:H:241:LEU:O	2.06	0.56
1:H:499:GLN:HA	1:H:502:ARG:HD2	1.86	0.56
1:H:946:ARG:HG3	1:H:947:GLU:H	1.71	0.56
1:I:248:GLN:CD	1:I:268:PHE:CE2	2.74	0.56
1:I:350:THR:HA	1:I:353:ILE:HG22	1.88	0.56
1:I:378:SER:HA	1:I:422:ILE:HD12	1.84	0.56
1:I:946:ARG:HG3	1:I:947:GLU:H	1.71	0.56
1:M:458:LEU:CG	1:M:587:ARG:HH21	2.19	0.56
1:M:984:LEU:HD12	1:M:1022:ALA:HB2	1.88	0.56
1:N:951:VAL:HA	1:N:987:VAL:HG11	1.87	0.56
1:O:410:LEU:HD22	1:O:413:LYS:HA	1.88	0.56
1:O:499:GLN:HA	1:O:502:ARG:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:LEU:CG	1:A:587:ARG:HH21	2.19	0.56
1:B:458:LEU:CD2	1:B:459:ILE:H	2.18	0.56
1:B:492:LEU:HD21	1:B:562:LEU:HD23	1.86	0.56
1:C:516:ASN:O	1:C:517:THR:HG22	2.06	0.56
1:E:1058:ILE:HG13	1:E:1059:ASP:H	1.70	0.56
1:F:410:LEU:HD22	1:F:413:LYS:HA	1.88	0.56
1:G:114:TYR:O	1:G:117:ASN:N	2.36	0.56
1:H:410:LEU:HD22	1:H:413:LYS:HA	1.88	0.56
1:I:155:SER:HA	1:I:321:PRO:HD2	1.87	0.56
1:J:368:MET:HE1	1:J:401:VAL:HG21	1.88	0.56
1:J:371:ARG:HD3	1:J:435:ASN:HD21	1.70	0.56
1:J:492:LEU:HD21	1:J:562:LEU:HD23	1.86	0.56
1:K:984:LEU:HD12	1:K:1022:ALA:HB2	1.88	0.56
1:L:516:ASN:O	1:L:517:THR:HG22	2.06	0.56
1:M:557:LYS:CE	1:M:1224:LEU:O	2.51	0.56
1:M:458:LEU:CD2	1:M:459:ILE:H	2.18	0.56
1:N:1031:ILE:HD11	1:N:1068:ILE:HD13	1.86	0.56
1:N:458:LEU:CG	1:N:587:ARG:HH21	2.19	0.56
1:O:241:LEU:O	1:O:241:LEU:HD12	2.06	0.56
1:A:124:ASN:H	1:A:303:LYS:HZ3	1.54	0.55
1:A:951:VAL:HA	1:A:987:VAL:HG11	1.87	0.55
1:B:458:LEU:CG	1:B:587:ARG:HH21	2.20	0.55
1:C:1031:ILE:HD11	1:C:1068:ILE:HD13	1.86	0.55
1:C:486:LEU:O	1:C:488:ARG:HG3	2.06	0.55
1:C:946:ARG:HG3	1:C:947:GLU:H	1.71	0.55
1:D:442:SER:O	1:D:446:HIS:CG	2.55	0.55
1:D:516:ASN:O	1:D:517:THR:HG22	2.06	0.55
1:D:633:THR:HG21	1:D:643:TYR:CA	2.33	0.55
1:D:984:LEU:HD12	1:D:1022:ALA:HB2	1.88	0.55
1:E:336:ALA:O	1:E:338:TRP:N	2.38	0.55
1:E:368:MET:HE1	1:E:401:VAL:HG21	1.88	0.55
1:E:603:ILE:HD11	1:E:635:VAL:HG13	1.87	0.55
1:F:1058:ILE:HG13	1:F:1059:ASP:H	1.70	0.55
1:F:347:ASP:OD1	1:F:348:LYS:N	2.37	0.55
1:F:951:VAL:HA	1:F:987:VAL:HG11	1.87	0.55
1:H:383:THR:N	1:H:419:THR:HA	2.21	0.55
1:H:458:LEU:CG	1:H:587:ARG:HH21	2.19	0.55
1:H:518:LEU:HD22	1:H:643:TYR:CE1	2.22	0.55
1:I:410:LEU:HD22	1:I:413:LYS:HA	1.88	0.55
1:I:951:VAL:HA	1:I:987:VAL:HG11	1.87	0.55
1:J:336:ALA:O	1:J:338:TRP:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:378:SER:HA	1:K:422:ILE:HD12	1.84	0.55
1:K:442:SER:O	1:K:446:HIS:CG	2.55	0.55
1:K:516:ASN:O	1:K:517:THR:HG22	2.06	0.55
1:L:486:LEU:O	1:L:488:ARG:HG3	2.06	0.55
1:M:492:LEU:HD21	1:M:562:LEU:HD23	1.86	0.55
1:M:23:PHE:CD1	1:M:88:LEU:HD21	2.41	0.55
1:O:557:LYS:CE	1:O:1224:LEU:O	2.50	0.55
1:O:458:LEU:CG	1:O:587:ARG:HH21	2.19	0.55
1:O:518:LEU:HD22	1:O:643:TYR:CE1	2.22	0.55
1:O:23:PHE:CD1	1:O:88:LEU:HD21	2.41	0.55
1:P:114:TYR:O	1:P:117:ASN:N	2.36	0.55
1:P:508:TRP:C	1:P:606:GLY:CA	2.69	0.55
1:B:368:MET:HE1	1:B:401:VAL:HG21	1.88	0.55
1:C:458:LEU:CG	1:C:587:ARG:HH21	2.19	0.55
1:C:603:ILE:HD11	1:C:635:VAL:HG13	1.87	0.55
1:D:1058:ILE:HG13	1:D:1059:ASP:H	1.70	0.55
1:D:520:GLN:HA	1:D:523:PHE:HD2	1.71	0.55
1:E:378:SER:HA	1:E:422:ILE:HD12	1.84	0.55
1:E:458:LEU:CD2	1:E:459:ILE:H	2.18	0.55
1:F:155:SER:HA	1:F:321:PRO:HD2	1.87	0.55
1:G:188:SER:N	1:G:251:APK:O2P	2.31	0.55
1:H:23:PHE:CD1	1:H:88:LEU:HD21	2.41	0.55
1:J:458:LEU:CD2	1:J:459:ILE:H	2.18	0.55
1:K:1058:ILE:HG13	1:K:1059:ASP:H	1.70	0.55
1:K:520:GLN:HA	1:K:523:PHE:HD2	1.71	0.55
1:L:1031:ILE:HD11	1:L:1068:ILE:HD13	1.86	0.55
1:L:336:ALA:O	1:L:338:TRP:N	2.38	0.55
1:L:458:LEU:CG	1:L:587:ARG:HH21	2.19	0.55
1:L:951:VAL:HA	1:L:987:VAL:HG11	1.87	0.55
1:N:520:GLN:HA	1:N:523:PHE:HD2	1.71	0.55
1:O:155:SER:HA	1:O:321:PRO:HD2	1.87	0.55
1:A:984:LEU:HD12	1:A:1022:ALA:HB2	1.88	0.55
1:A:241:LEU:HD12	1:A:241:LEU:O	2.06	0.55
1:A:410:LEU:HD22	1:A:413:LYS:HA	1.88	0.55
1:A:520:GLN:HA	1:A:523:PHE:HD2	1.71	0.55
1:B:155:SER:HA	1:B:321:PRO:HD2	1.87	0.55
1:C:368:MET:HE1	1:C:401:VAL:HG21	1.89	0.55
1:C:449:ILE:HB	1:C:450:PRO:HD3	1.87	0.55
1:C:518:LEU:HD22	1:C:643:TYR:CE1	2.22	0.55
1:C:520:GLN:HA	1:C:523:PHE:HD2	1.71	0.55
1:D:563:ARG:NH1	1:D:591:THR:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:492:LEU:HD21	1:E:562:LEU:HD23	1.86	0.55
1:F:194:GLU:OE2	1:G:216:ASN:ND2	2.40	0.55
1:H:563:ARG:NH1	1:H:591:THR:O	2.40	0.55
1:I:1058:ILE:HG13	1:I:1059:ASP:H	1.70	0.55
1:I:23:PHE:CD1	1:I:88:LEU:HD21	2.41	0.55
1:J:603:ILE:HD11	1:J:635:VAL:HG13	1.87	0.55
1:L:600:ARG:NE	1:L:1229:GLU:OE1	2.37	0.55
1:L:603:ILE:HD11	1:L:635:VAL:HG13	1.87	0.55
1:M:124:ASN:H	1:M:303:LYS:HZ3	1.55	0.55
1:N:241:LEU:O	1:N:241:LEU:HD12	2.06	0.55
1:N:410:LEU:HD22	1:N:413:LYS:HA	1.88	0.55
1:O:383:THR:N	1:O:419:THR:HA	2.21	0.55
1:P:241:LEU:HD12	1:P:241:LEU:O	2.06	0.55
1:P:188:SER:N	1:P:251:APK:O2P	2.31	0.55
1:A:557:LYS:CE	1:A:1224:LEU:O	2.50	0.55
1:B:447:TYR:O	1:B:450:PRO:HD2	2.07	0.55
1:B:486:LEU:O	1:B:488:ARG:HG3	2.06	0.55
1:C:447:TYR:O	1:C:450:PRO:HD2	2.07	0.55
1:C:563:ARG:NH1	1:C:591:THR:O	2.40	0.55
1:F:23:PHE:CD1	1:F:88:LEU:HD21	2.41	0.55
1:F:368:MET:HE1	1:F:401:VAL:HG21	1.88	0.55
1:G:241:LEU:O	1:G:241:LEU:HD12	2.06	0.55
1:G:317:LEU:CD2	1:G:341:TRP:CH2	2.90	0.55
1:G:383:THR:N	1:G:419:THR:HA	2.21	0.55
1:H:317:LEU:CD2	1:H:341:TRP:CH2	2.90	0.55
1:I:368:MET:HE1	1:I:401:VAL:HG21	1.88	0.55
1:K:313:PRO:HA	1:K:338:TRP:HH2	1.63	0.55
1:K:563:ARG:NH1	1:K:591:THR:O	2.40	0.55
1:L:368:MET:HE1	1:L:401:VAL:HG21	1.89	0.55
1:L:447:TYR:O	1:L:450:PRO:HD2	2.07	0.55
1:L:520:GLN:HA	1:L:523:PHE:HD2	1.71	0.55
1:M:155:SER:HA	1:M:321:PRO:HD2	1.87	0.55
1:M:486:LEU:O	1:M:488:ARG:HG3	2.06	0.55
1:N:984:LEU:HD12	1:N:1022:ALA:HB2	1.88	0.55
1:N:600:ARG:NE	1:N:1229:GLU:OE1	2.37	0.55
1:O:317:LEU:CD2	1:O:341:TRP:CH2	2.90	0.55
1:O:563:ARG:NH1	1:O:591:THR:O	2.40	0.55
1:P:317:LEU:CD2	1:P:341:TRP:CH2	2.90	0.55
1:P:383:THR:N	1:P:419:THR:HA	2.21	0.55
1:A:114:TYR:O	1:A:117:ASN:N	2.36	0.55
1:A:301:LEU:HD23	1:A:313:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:THR:N	1:A:419:THR:HA	2.21	0.55
1:B:241:LEU:O	1:B:241:LEU:HD12	2.06	0.55
1:C:541:ALA:O	1:C:544:ASP:N	2.30	0.55
1:D:313:PRO:HA	1:D:338:TRP:HH2	1.63	0.55
1:D:347:ASP:OD1	1:D:348:LYS:N	2.37	0.55
1:D:371:ARG:HD3	1:D:435:ASN:HD21	1.70	0.55
1:F:317:LEU:CD2	1:F:341:TRP:CH2	2.90	0.55
1:G:458:LEU:CG	1:G:587:ARG:HH21	2.19	0.55
1:H:114:TYR:O	1:H:117:ASN:N	2.36	0.55
1:H:130:PRO:HA	1:H:290:MET:HE1	1.87	0.55
1:I:347:ASP:OD1	1:I:348:LYS:N	2.37	0.55
1:I:510:ALA:O	1:I:511:SER:HB2	2.07	0.55
1:J:378:SER:HA	1:J:422:ILE:HD12	1.84	0.55
1:K:23:PHE:CD1	1:K:88:LEU:HD21	2.41	0.55
1:L:563:ARG:NH1	1:L:591:THR:O	2.40	0.55
1:L:946:ARG:HG3	1:L:947:GLU:H	1.71	0.55
1:M:301:LEU:HD23	1:M:313:PRO:HD2	1.89	0.55
1:M:368:MET:HE1	1:M:401:VAL:HG21	1.88	0.55
1:M:447:TYR:O	1:M:450:PRO:HD2	2.07	0.55
1:N:114:TYR:O	1:N:117:ASN:N	2.36	0.55
1:N:557:LYS:HZ2	1:N:1223:GLN:HG3	1.70	0.55
1:P:563:ARG:NH1	1:P:591:THR:O	2.40	0.55
1:A:600:ARG:NE	1:A:1229:GLU:OE1	2.37	0.55
1:A:447:TYR:O	1:A:450:PRO:HD2	2.07	0.55
1:A:563:ARG:NH1	1:A:591:THR:O	2.40	0.55
1:B:301:LEU:HD23	1:B:313:PRO:HD2	1.89	0.55
1:C:458:LEU:CD2	1:C:459:ILE:H	2.18	0.55
1:D:557:LYS:CE	1:D:1224:LEU:O	2.50	0.55
1:E:984:LEU:HD12	1:E:1022:ALA:HB2	1.88	0.55
1:F:516:ASN:O	1:F:517:THR:HG22	2.06	0.55
1:G:563:ARG:NH1	1:G:591:THR:O	2.40	0.55
1:I:317:LEU:CD2	1:I:341:TRP:CH2	2.90	0.55
1:J:984:LEU:HD12	1:J:1022:ALA:HB2	1.88	0.55
1:J:124:ASN:H	1:J:303:LYS:HZ3	1.53	0.55
1:J:510:ALA:O	1:J:511:SER:HB2	2.07	0.55
1:K:347:ASP:OD1	1:K:348:LYS:N	2.37	0.55
1:K:371:ARG:HD3	1:K:435:ASN:HD21	1.70	0.55
1:L:371:ARG:HD3	1:L:435:ASN:HD21	1.70	0.55
1:L:458:LEU:CD2	1:L:459:ILE:H	2.18	0.55
1:M:241:LEU:HD12	1:M:241:LEU:O	2.06	0.55
1:N:301:LEU:HD23	1:N:313:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:317:LEU:CD2	1:N:341:TRP:CH2	2.90	0.55
1:N:563:ARG:NH1	1:N:591:THR:O	2.40	0.55
1:O:114:TYR:O	1:O:117:ASN:N	2.36	0.55
1:P:458:LEU:CG	1:P:587:ARG:HH21	2.19	0.55
1:P:518:LEU:HD12	1:P:518:LEU:N	2.20	0.55
1:P:946:ARG:HG3	1:P:947:GLU:H	1.71	0.55
1:A:317:LEU:CD2	1:A:341:TRP:CH2	2.90	0.55
1:A:412:GLU:OE1	1:A:414:GLN:N	2.40	0.55
1:B:350:THR:HA	1:B:353:ILE:HG22	1.88	0.55
1:B:412:GLU:OE1	1:B:414:GLN:N	2.40	0.55
1:C:371:ARG:HD3	1:C:435:ASN:HD21	1.70	0.55
1:E:124:ASN:H	1:E:303:LYS:HZ3	1.53	0.55
1:E:350:THR:HA	1:E:353:ILE:HG22	1.88	0.55
1:E:510:ALA:O	1:E:511:SER:HB2	2.07	0.55
1:F:317:LEU:HD22	1:F:341:TRP:CH2	2.42	0.55
1:F:412:GLU:OE1	1:F:414:GLN:N	2.40	0.55
1:F:548:LYS:HZ2	1:F:601:GLN:H	1.53	0.55
1:G:518:LEU:N	1:G:518:LEU:HD12	2.20	0.55
1:G:946:ARG:HG3	1:G:947:GLU:H	1.71	0.55
1:I:317:LEU:HD22	1:I:341:TRP:CH2	2.42	0.55
1:I:516:ASN:O	1:I:517:THR:HG22	2.06	0.55
1:J:346:CYS:O	1:J:350:THR:N	2.25	0.55
1:J:347:ASP:OD1	1:J:348:LYS:N	2.37	0.55
1:J:412:GLU:OE1	1:J:414:GLN:N	2.40	0.55
1:J:516:ASN:O	1:J:517:THR:HG22	2.06	0.55
1:J:563:ARG:NH1	1:J:591:THR:O	2.40	0.55
1:K:518:LEU:N	1:K:518:LEU:HD12	2.20	0.55
1:M:410:LEU:HD22	1:M:413:LYS:HA	1.88	0.55
1:M:412:GLU:OE1	1:M:414:GLN:N	2.40	0.55
1:N:557:LYS:CE	1:N:1224:LEU:O	2.51	0.55
1:N:412:GLU:OE1	1:N:414:GLN:N	2.40	0.55
1:N:383:THR:N	1:N:419:THR:HA	2.21	0.55
1:O:487:PHE:CD2	1:O:489:MET:HG3	2.42	0.55
1:B:410:LEU:HD22	1:B:413:LYS:HA	1.88	0.55
1:B:487:PHE:CD2	1:B:489:MET:HG3	2.42	0.55
1:B:510:ALA:O	1:B:511:SER:HB2	2.07	0.55
1:B:563:ARG:NH1	1:B:591:THR:O	2.40	0.55
1:C:301:LEU:HD23	1:C:313:PRO:HD2	1.89	0.55
1:D:368:MET:HE1	1:D:401:VAL:HG21	1.89	0.55
1:D:458:LEU:CD2	1:D:459:ILE:H	2.18	0.55
1:D:458:LEU:CG	1:D:587:ARG:HH21	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:23:PHE:CD1	1:D:88:LEU:HD21	2.41	0.55
1:E:347:ASP:OD1	1:E:348:LYS:N	2.37	0.55
1:E:412:GLU:OE1	1:E:414:GLN:N	2.40	0.55
1:E:516:ASN:O	1:E:517:THR:HG22	2.06	0.55
1:E:563:ARG:NH1	1:E:591:THR:O	2.40	0.55
1:F:984:LEU:HD12	1:F:1022:ALA:HB2	1.88	0.55
1:F:510:ALA:O	1:F:511:SER:HB2	2.07	0.55
1:H:487:PHE:CD2	1:H:489:MET:HG3	2.42	0.55
1:I:412:GLU:OE1	1:I:414:GLN:N	2.40	0.55
1:J:350:THR:HA	1:J:353:ILE:HG22	1.88	0.55
1:K:447:TYR:O	1:K:450:PRO:HD2	2.07	0.55
1:K:458:LEU:CG	1:K:587:ARG:HH21	2.20	0.55
1:L:767:GLY:HA2	1:L:783:THR:HG22	1.89	0.55
1:M:350:THR:HA	1:M:353:ILE:HG22	1.88	0.55
1:M:487:PHE:CD2	1:M:489:MET:HG3	2.42	0.55
1:M:563:ARG:NH1	1:M:591:THR:O	2.40	0.55
1:N:447:TYR:O	1:N:450:PRO:HD2	2.07	0.55
1:O:508:TRP:C	1:O:606:GLY:CA	2.69	0.55
1:P:23:PHE:CD1	1:P:88:LEU:HD21	2.41	0.55
1:B:541:ALA:O	1:B:544:ASP:N	2.30	0.55
1:B:600:ARG:NE	1:B:1229:GLU:OE1	2.37	0.55
1:C:23:PHE:CD1	1:C:88:LEU:HD21	2.41	0.55
1:C:350:THR:HA	1:C:353:ILE:HG22	1.88	0.55
1:C:412:GLU:OE1	1:C:414:GLN:N	2.40	0.55
1:C:600:ARG:NE	1:C:1229:GLU:OE1	2.37	0.55
1:E:317:LEU:CD2	1:E:341:TRP:CH2	2.90	0.55
1:E:397:ASP:O	1:E:401:VAL:N	2.28	0.55
1:E:447:TYR:O	1:E:450:PRO:HD2	2.07	0.55
1:F:538:LEU:CD1	1:F:571:GLU:HG2	2.37	0.55
1:G:447:TYR:O	1:G:450:PRO:HD2	2.07	0.55
1:G:23:PHE:CD1	1:G:88:LEU:HD21	2.41	0.55
1:H:301:LEU:HD23	1:H:313:PRO:HD2	1.89	0.55
1:H:412:GLU:OE1	1:H:414:GLN:N	2.40	0.55
1:H:447:TYR:O	1:H:450:PRO:HD2	2.07	0.55
1:I:984:LEU:HD12	1:I:1022:ALA:HB2	1.88	0.55
1:J:317:LEU:CD2	1:J:341:TRP:CH2	2.90	0.55
1:J:365:TYR:O	1:J:368:MET:N	2.21	0.55
1:K:557:LYS:CE	1:K:1224:LEU:O	2.50	0.55
1:K:410:LEU:HD22	1:K:413:LYS:HA	1.88	0.55
1:K:353:ILE:HD11	1:K:427:LEU:HA	1.89	0.55
1:K:458:LEU:CD2	1:K:459:ILE:H	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:23:PHE:CD1	1:L:88:LEU:HD21	2.41	0.55
1:L:449:ILE:HB	1:L:450:PRO:HD3	1.87	0.55
1:M:317:LEU:CD2	1:M:341:TRP:CH2	2.90	0.55
1:M:510:ALA:O	1:M:511:SER:HB2	2.07	0.55
1:M:541:ALA:O	1:M:544:ASP:N	2.30	0.55
1:M:600:ARG:NE	1:M:1229:GLU:OE1	2.37	0.55
1:O:447:TYR:O	1:O:450:PRO:HD2	2.07	0.55
1:O:767:GLY:HA2	1:O:783:THR:HG22	1.89	0.55
1:F:97:ARG:NH2	1:O:97:ARG:NH2	2.55	0.55
1:P:447:TYR:O	1:P:450:PRO:HD2	2.07	0.55
1:B:124:ASN:H	1:B:303:LYS:HZ3	1.55	0.55
1:B:317:LEU:CD2	1:B:341:TRP:CH2	2.90	0.55
1:B:516:ASN:O	1:B:517:THR:HG22	2.06	0.55
1:B:767:GLY:HA2	1:B:783:THR:HG22	1.89	0.55
1:C:487:PHE:CD2	1:C:489:MET:HG3	2.42	0.55
1:C:767:GLY:HA2	1:C:783:THR:HG22	1.90	0.55
1:D:353:ILE:HD11	1:D:427:LEU:HA	1.89	0.55
1:D:447:TYR:O	1:D:450:PRO:HD2	2.07	0.55
1:D:487:PHE:CD2	1:D:489:MET:HG3	2.42	0.55
1:D:518:LEU:HD12	1:D:518:LEU:N	2.20	0.55
1:E:353:ILE:HD11	1:E:427:LEU:HA	1.89	0.55
1:E:951:VAL:HA	1:E:987:VAL:HG11	1.87	0.55
1:F:508:TRP:C	1:F:606:GLY:CA	2.69	0.55
1:H:508:TRP:C	1:H:606:GLY:CA	2.70	0.55
1:H:767:GLY:HA2	1:H:783:THR:HG22	1.89	0.55
1:I:442:SER:O	1:I:446:HIS:CG	2.55	0.55
1:I:508:TRP:C	1:I:606:GLY:CA	2.69	0.55
1:J:353:ILE:HD11	1:J:427:LEU:HA	1.89	0.55
1:J:951:VAL:HA	1:J:987:VAL:HG11	1.87	0.55
1:L:317:LEU:HD22	1:L:341:TRP:CH2	2.42	0.55
1:L:350:THR:HA	1:L:353:ILE:HG22	1.88	0.55
1:L:487:PHE:CD2	1:L:489:MET:HG3	2.42	0.55
1:N:353:ILE:HD11	1:N:427:LEU:HA	1.89	0.55
1:N:487:PHE:CD2	1:N:489:MET:HG3	2.42	0.55
1:O:984:LEU:HD12	1:O:1022:ALA:HB2	1.88	0.55
1:O:412:GLU:OE1	1:O:414:GLN:N	2.40	0.55
1:O:216:ASN:ND2	1:P:194:GLU:OE2	2.40	0.55
1:A:353:ILE:HD11	1:A:427:LEU:HA	1.89	0.54
1:A:487:PHE:CD2	1:A:489:MET:HG3	2.42	0.54
1:A:767:GLY:HA2	1:A:783:THR:HG22	1.89	0.54
1:B:150:ASP:OD1	1:B:151:GLY:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:LEU:HD22	1:C:413:LYS:HA	1.88	0.54
1:C:538:LEU:CG	1:C:571:GLU:HG2	2.37	0.54
1:D:317:LEU:C	1:D:318:THR:HG1	1.96	0.54
1:D:410:LEU:HD22	1:D:413:LYS:HA	1.88	0.54
1:E:538:LEU:CG	1:E:571:GLU:HG2	2.37	0.54
1:E:946:ARG:HG3	1:E:947:GLU:H	1.71	0.54
1:F:557:LYS:CE	1:F:1224:LEU:O	2.50	0.54
1:F:150:ASP:OD1	1:F:151:GLY:N	2.40	0.54
1:F:442:SER:O	1:F:446:HIS:CG	2.55	0.54
1:G:487:PHE:CD2	1:G:489:MET:HG3	2.42	0.54
1:G:538:LEU:CG	1:G:571:GLU:HG2	2.37	0.54
1:G:951:VAL:HA	1:G:987:VAL:HG11	1.87	0.54
1:I:388:LEU:HB2	1:I:446:HIS:CE1	2.43	0.54
1:I:538:LEU:CD1	1:I:571:GLU:HG2	2.38	0.54
1:I:563:ARG:NH1	1:I:591:THR:O	2.40	0.54
1:J:447:TYR:O	1:J:450:PRO:HD2	2.07	0.54
1:J:538:LEU:CG	1:J:571:GLU:HG2	2.37	0.54
1:K:487:PHE:CD2	1:K:489:MET:HG3	2.42	0.54
1:K:538:LEU:CD1	1:K:571:GLU:HG2	2.37	0.54
1:L:301:LEU:HD23	1:L:313:PRO:HD2	1.89	0.54
1:L:538:LEU:CD1	1:L:571:GLU:HG2	2.38	0.54
1:M:150:ASP:OD1	1:M:151:GLY:N	2.41	0.54
1:M:516:ASN:O	1:M:517:THR:HG22	2.06	0.54
1:M:767:GLY:HA2	1:M:783:THR:HG22	1.89	0.54
1:N:767:GLY:HA2	1:N:783:THR:HG22	1.89	0.54
1:P:150:ASP:OD1	1:P:151:GLY:N	2.40	0.54
1:P:487:PHE:CD2	1:P:489:MET:HG3	2.42	0.54
1:P:951:VAL:HA	1:P:987:VAL:HG11	1.87	0.54
1:A:516:ASN:O	1:A:517:THR:HG22	2.06	0.54
1:A:946:ARG:HG3	1:A:947:GLU:H	1.71	0.54
1:C:317:LEU:CD2	1:C:341:TRP:CH2	2.90	0.54
1:C:538:LEU:CD1	1:C:571:GLU:HG2	2.38	0.54
1:D:114:TYR:O	1:D:117:ASN:N	2.36	0.54
1:D:317:LEU:CD2	1:D:341:TRP:CH2	2.90	0.54
1:D:538:LEU:CD1	1:D:571:GLU:HG2	2.38	0.54
1:E:1195:VAL:HG11	1:E:1241:PHE:HZ	1.72	0.54
1:E:365:TYR:O	1:E:368:MET:N	2.21	0.54
1:E:397:ASP:HA	1:E:400:VAL:HB	1.89	0.54
1:F:458:LEU:CG	1:F:587:ARG:HH21	2.19	0.54
1:G:388:LEU:HB2	1:G:446:HIS:CE1	2.43	0.54
1:G:397:ASP:HA	1:G:400:VAL:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:510:ALA:O	1:G:511:SER:HB2	2.07	0.54
1:H:317:LEU:HD22	1:H:341:TRP:CH2	2.42	0.54
1:H:388:LEU:HB2	1:H:446:HIS:CE1	2.43	0.54
1:H:397:ASP:HA	1:H:400:VAL:HB	1.89	0.54
1:H:984:LEU:HD12	1:H:1022:ALA:HB2	1.88	0.54
1:J:317:LEU:HD22	1:J:341:TRP:CH2	2.42	0.54
1:K:317:LEU:C	1:K:318:THR:HG1	1.96	0.54
1:K:317:LEU:CD2	1:K:341:TRP:CH2	2.90	0.54
1:L:317:LEU:CD2	1:L:341:TRP:CH2	2.90	0.54
1:L:353:ILE:HD11	1:L:427:LEU:HA	1.89	0.54
1:L:412:GLU:OE1	1:L:414:GLN:N	2.40	0.54
1:N:516:ASN:O	1:N:517:THR:HG22	2.06	0.54
1:O:301:LEU:HD23	1:O:313:PRO:HD2	1.89	0.54
1:O:317:LEU:HD22	1:O:341:TRP:CH2	2.42	0.54
1:O:397:ASP:HA	1:O:400:VAL:HB	1.89	0.54
1:P:120:PHE:HE1	1:P:159:TRP:CE3	2.26	0.54
1:P:124:ASN:H	1:P:303:LYS:HZ3	1.55	0.54
1:P:397:ASP:HA	1:P:400:VAL:HB	1.89	0.54
1:P:388:LEU:HB2	1:P:446:HIS:CE1	2.43	0.54
1:P:538:LEU:CG	1:P:571:GLU:HG2	2.37	0.54
1:P:984:LEU:HD12	1:P:1022:ALA:HB2	1.88	0.54
1:C:317:LEU:HD22	1:C:341:TRP:CH2	2.42	0.54
1:C:353:ILE:HD11	1:C:427:LEU:HA	1.90	0.54
1:C:368:MET:HA	1:C:390:TRP:HE1	1.73	0.54
1:C:91:PRO:O	1:C:94:THR:OG1	2.21	0.54
1:D:100:SER:O	1:D:103:THR:N	2.41	0.54
1:D:350:THR:HA	1:D:353:ILE:HG22	1.88	0.54
1:E:458:LEU:CG	1:E:587:ARG:HH21	2.19	0.54
1:F:563:ARG:NH1	1:F:591:THR:O	2.40	0.54
1:G:150:ASP:OD1	1:G:151:GLY:N	2.41	0.54
1:G:120:PHE:HE1	1:G:159:TRP:CE3	2.26	0.54
1:G:412:GLU:OE1	1:G:414:GLN:N	2.40	0.54
1:G:984:LEU:HD12	1:G:1022:ALA:HB2	1.88	0.54
1:I:383:THR:N	1:I:419:THR:HA	2.21	0.54
1:J:1195:VAL:HG11	1:J:1241:PHE:HZ	1.73	0.54
1:J:397:ASP:HA	1:J:400:VAL:HB	1.89	0.54
1:K:557:LYS:CB	1:K:1226:TYR:CE1	2.87	0.54
1:L:383:THR:N	1:L:419:THR:HA	2.21	0.54
1:L:553:LEU:HB3	1:L:556:SER:HG	1.72	0.54
1:M:317:LEU:HD22	1:M:341:TRP:CH2	2.42	0.54
1:M:353:ILE:HD11	1:M:427:LEU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:487:PHE:HD2	1:M:489:MET:HG3	1.72	0.54
1:M:538:LEU:CD1	1:M:571:GLU:HG2	2.38	0.54
1:O:487:PHE:HD2	1:O:489:MET:HG3	1.72	0.54
1:P:100:SER:O	1:P:103:THR:N	2.41	0.54
1:P:368:MET:HE1	1:P:401:VAL:HG21	1.88	0.54
1:P:412:GLU:OE1	1:P:414:GLN:N	2.40	0.54
1:A:368:MET:HE1	1:A:401:VAL:HG21	1.88	0.54
1:A:389:ILE:CD1	1:A:446:HIS:CD2	2.91	0.54
1:A:538:LEU:CD1	1:A:571:GLU:HG2	2.38	0.54
1:B:317:LEU:HD22	1:B:341:TRP:CH2	2.42	0.54
1:B:353:ILE:HD11	1:B:427:LEU:HA	1.89	0.54
1:B:487:PHE:HD2	1:B:489:MET:HG3	1.72	0.54
1:B:538:LEU:CD1	1:B:571:GLU:HG2	2.38	0.54
1:C:100:SER:O	1:C:103:THR:N	2.41	0.54
1:C:130:PRO:HA	1:C:290:MET:HE1	1.90	0.54
1:C:383:THR:N	1:C:419:THR:HA	2.21	0.54
1:D:1195:VAL:HG11	1:D:1241:PHE:HZ	1.73	0.54
1:D:120:PHE:HE1	1:D:159:TRP:CE3	2.26	0.54
1:D:557:LYS:CB	1:D:1226:TYR:CE1	2.87	0.54
1:D:510:ALA:O	1:D:511:SER:HB2	2.07	0.54
1:E:317:LEU:HD22	1:E:341:TRP:CH2	2.42	0.54
1:F:388:LEU:HB2	1:F:446:HIS:CE1	2.43	0.54
1:F:538:LEU:CG	1:F:571:GLU:HG2	2.37	0.54
1:G:100:SER:O	1:G:103:THR:N	2.41	0.54
1:G:368:MET:HE1	1:G:401:VAL:HG21	1.89	0.54
1:G:550:GLU:O	1:G:552:ASN:ND2	2.41	0.54
1:H:353:ILE:HD11	1:H:427:LEU:HA	1.89	0.54
1:H:487:PHE:HD2	1:H:489:MET:HG3	1.72	0.54
1:I:100:SER:O	1:I:103:THR:N	2.41	0.54
1:I:150:ASP:OD1	1:I:151:GLY:N	2.40	0.54
1:I:458:LEU:CG	1:I:587:ARG:HH21	2.19	0.54
1:J:946:ARG:HG3	1:J:947:GLU:H	1.71	0.54
1:K:100:SER:O	1:K:103:THR:N	2.41	0.54
1:K:350:THR:HA	1:K:353:ILE:HG22	1.88	0.54
1:K:412:GLU:OE1	1:K:414:GLN:N	2.40	0.54
1:K:510:ALA:O	1:K:511:SER:HB2	2.07	0.54
1:L:130:PRO:HA	1:L:290:MET:HE1	1.90	0.54
1:L:150:ASP:OD1	1:L:151:GLY:N	2.40	0.54
1:N:368:MET:HE1	1:N:401:VAL:HG21	1.88	0.54
1:N:389:ILE:CD1	1:N:446:HIS:CD2	2.91	0.54
1:N:538:LEU:CD1	1:N:571:GLU:HG2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:301:LEU:HD23	1:P:313:PRO:HD2	1.89	0.54
1:P:510:ALA:O	1:P:511:SER:HB2	2.07	0.54
1:P:550:GLU:O	1:P:552:ASN:ND2	2.41	0.54
1:P:767:GLY:HA2	1:P:783:THR:HG22	1.89	0.54
1:A:388:LEU:HB2	1:A:446:HIS:CE1	2.43	0.54
1:D:317:LEU:HD22	1:D:341:TRP:CH2	2.42	0.54
1:D:767:GLY:HA2	1:D:783:THR:HG22	1.89	0.54
1:F:100:SER:O	1:F:103:THR:N	2.41	0.54
1:F:550:GLU:O	1:F:552:ASN:ND2	2.41	0.54
1:G:301:LEU:HD23	1:G:313:PRO:HD2	1.89	0.54
1:G:767:GLY:HA2	1:G:783:THR:HG22	1.89	0.54
1:H:100:SER:O	1:H:103:THR:N	2.41	0.54
1:H:301:LEU:CD2	1:H:313:PRO:CD	2.86	0.54
1:H:541:ALA:O	1:H:544:ASP:N	2.30	0.54
1:H:550:GLU:O	1:H:552:ASN:ND2	2.41	0.54
1:H:538:LEU:CD1	1:H:571:GLU:HG2	2.38	0.54
1:I:124:ASN:H	1:I:303:LYS:HZ3	1.56	0.54
1:I:353:ILE:HD11	1:I:427:LEU:HA	1.89	0.54
1:I:550:GLU:O	1:I:552:ASN:ND2	2.41	0.54
1:J:458:LEU:CG	1:J:587:ARG:HH21	2.19	0.54
1:K:1195:VAL:HG11	1:K:1241:PHE:HZ	1.73	0.54
1:K:538:LEU:CG	1:K:571:GLU:HG2	2.37	0.54
1:L:100:SER:O	1:L:103:THR:N	2.41	0.54
1:L:368:MET:HA	1:L:390:TRP:HE1	1.73	0.54
1:L:538:LEU:CG	1:L:571:GLU:HG2	2.37	0.54
1:M:368:MET:HA	1:M:390:TRP:HE1	1.73	0.54
1:N:388:LEU:HB2	1:N:446:HIS:CE1	2.43	0.54
1:N:946:ARG:HG3	1:N:947:GLU:H	1.71	0.54
1:O:100:SER:O	1:O:103:THR:N	2.41	0.54
1:O:388:LEU:HB2	1:O:446:HIS:CE1	2.43	0.54
1:O:353:ILE:HD11	1:O:427:LEU:HA	1.89	0.54
1:O:516:ASN:O	1:O:517:THR:HG22	2.06	0.54
1:O:541:ALA:O	1:O:544:ASP:N	2.30	0.54
1:O:550:GLU:O	1:O:552:ASN:ND2	2.41	0.54
1:O:538:LEU:CD1	1:O:571:GLU:HG2	2.38	0.54
1:P:410:LEU:HD22	1:P:413:LYS:HA	1.88	0.54
1:P:516:ASN:O	1:P:517:THR:HG22	2.06	0.54
1:A:120:PHE:HE1	1:A:159:TRP:CE3	2.26	0.54
1:A:150:ASP:OD1	1:A:151:GLY:N	2.40	0.54
1:A:541:ALA:O	1:A:544:ASP:N	2.30	0.54
1:B:368:MET:HA	1:B:390:TRP:HE1	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:386:LEU:HD12	1:B:420:ILE:HD13	1.90	0.54
1:C:389:ILE:CD1	1:C:446:HIS:CD2	2.91	0.54
1:D:412:GLU:OE1	1:D:414:GLN:N	2.40	0.54
1:E:120:PHE:HE1	1:E:159:TRP:CE3	2.26	0.54
1:F:124:ASN:H	1:F:303:LYS:HZ3	1.56	0.54
1:F:156:GLY:HA2	2:F:1501:DTP:O2A	2.08	0.54
1:F:353:ILE:HD11	1:F:427:LEU:HA	1.89	0.54
1:F:633:THR:HG21	1:F:643:TYR:CA	2.33	0.54
1:G:119:VAL:HA	1:G:159:TRP:CH2	2.43	0.54
1:G:301:LEU:CD2	1:G:313:PRO:CD	2.86	0.54
1:G:317:LEU:HD22	1:G:341:TRP:CH2	2.42	0.54
1:G:516:ASN:O	1:G:517:THR:HG22	2.06	0.54
1:H:516:ASN:O	1:H:517:THR:HG22	2.06	0.54
1:I:557:LYS:CE	1:I:1224:LEU:O	2.50	0.54
1:J:119:VAL:HA	1:J:159:TRP:CH2	2.43	0.54
1:J:120:PHE:HE1	1:J:159:TRP:CE3	2.26	0.54
1:J:397:ASP:O	1:J:401:VAL:N	2.28	0.54
1:K:120:PHE:HE1	1:K:159:TRP:CE3	2.26	0.54
1:K:767:GLY:HA2	1:K:783:THR:HG22	1.89	0.54
1:L:410:LEU:HD22	1:L:413:LYS:HA	1.88	0.54
1:M:386:LEU:HD12	1:M:420:ILE:HD13	1.90	0.54
1:M:538:LEU:CG	1:M:571:GLU:HG2	2.37	0.54
1:N:120:PHE:HE1	1:N:159:TRP:CE3	2.26	0.54
1:O:301:LEU:CD2	1:O:313:PRO:CD	2.86	0.54
1:P:301:LEU:CD2	1:P:313:PRO:CD	2.86	0.54
1:A:168:TYR:O	1:A:171:GLN:N	2.41	0.54
1:A:538:LEU:CG	1:A:571:GLU:HG2	2.37	0.54
1:B:538:LEU:CG	1:B:571:GLU:HG2	2.37	0.54
1:C:1182:GLU:O	1:C:1183:GLU:HG3	2.08	0.54
1:C:150:ASP:OD1	1:C:151:GLY:N	2.41	0.54
1:C:301:LEU:CD2	1:C:313:PRO:CD	2.86	0.54
1:D:168:TYR:O	1:D:171:GLN:N	2.41	0.54
1:D:383:THR:N	1:D:419:THR:HA	2.21	0.54
1:D:538:LEU:CG	1:D:571:GLU:HG2	2.37	0.54
1:H:168:TYR:O	1:H:171:GLN:N	2.41	0.54
1:I:1195:VAL:HG11	1:I:1241:PHE:HZ	1.73	0.54
1:I:156:GLY:HA2	2:I:1501:DTP:O1A	2.08	0.54
1:J:168:TYR:O	1:J:171:GLN:N	2.41	0.54
1:K:114:TYR:O	1:K:117:ASN:N	2.36	0.54
1:K:168:TYR:O	1:K:171:GLN:N	2.41	0.54
1:K:317:LEU:HD22	1:K:341:TRP:CH2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:389:ILE:CD1	1:L:446:HIS:CD2	2.91	0.54
1:N:100:SER:O	1:N:103:THR:N	2.41	0.54
1:N:150:ASP:OD1	1:N:151:GLY:N	2.40	0.54
1:N:168:TYR:O	1:N:171:GLN:N	2.41	0.54
1:O:168:TYR:O	1:O:171:GLN:N	2.41	0.54
1:O:368:MET:HE1	1:O:401:VAL:HG21	1.88	0.54
1:A:100:SER:O	1:A:103:THR:N	2.41	0.54
1:A:317:LEU:HD22	1:A:341:TRP:CH2	2.42	0.54
1:A:388:LEU:CB	1:A:446:HIS:CE1	2.91	0.54
1:A:442:SER:O	1:A:446:HIS:CG	2.55	0.54
1:B:120:PHE:HE1	1:B:159:TRP:CE3	2.26	0.54
1:C:124:ASN:H	1:C:303:LYS:HZ3	1.56	0.54
1:E:119:VAL:HA	1:E:159:TRP:CH2	2.43	0.54
1:E:388:LEU:HB2	1:E:446:HIS:CE1	2.43	0.54
1:E:487:PHE:CD2	1:E:489:MET:HG3	2.42	0.54
1:F:397:ASP:HA	1:F:400:VAL:HB	1.89	0.54
1:F:383:THR:N	1:F:419:THR:HA	2.21	0.54
1:F:447:TYR:O	1:F:450:PRO:HD2	2.07	0.54
1:G:410:LEU:HD22	1:G:413:LYS:HA	1.88	0.54
1:H:156:GLY:HA2	2:H:1501:DTP:O2A	2.08	0.54
1:H:389:ILE:CD1	1:H:446:HIS:CD2	2.91	0.54
1:I:447:TYR:O	1:I:450:PRO:HD2	2.07	0.54
1:I:538:LEU:CG	1:I:571:GLU:HG2	2.37	0.54
1:I:633:THR:HG21	1:I:643:TYR:CA	2.33	0.54
1:L:120:PHE:HE1	1:L:159:TRP:CE3	2.26	0.54
1:L:301:LEU:CD2	1:L:313:PRO:CD	2.86	0.54
1:L:518:LEU:HD22	1:L:643:TYR:CE1	2.22	0.54
1:L:541:ALA:O	1:L:544:ASP:N	2.30	0.54
1:M:120:PHE:HE1	1:M:159:TRP:CE3	2.26	0.54
1:N:301:LEU:CD2	1:N:313:PRO:CD	2.86	0.54
1:N:317:LEU:HD22	1:N:341:TRP:CH2	2.42	0.54
1:N:442:SER:O	1:N:446:HIS:CG	2.55	0.54
1:N:388:LEU:CB	1:N:446:HIS:CE1	2.91	0.54
1:N:541:ALA:O	1:N:544:ASP:N	2.30	0.54
1:N:538:LEU:CG	1:N:571:GLU:HG2	2.37	0.54
1:P:119:VAL:HA	1:P:159:TRP:CH2	2.43	0.54
1:P:317:LEU:HD22	1:P:341:TRP:CH2	2.42	0.54
1:A:106:TYR:O	1:A:109:GLN:N	2.41	0.54
1:A:122:LYS:HG3	1:B:276:SER:OG	2.07	0.54
1:A:301:LEU:CD2	1:A:313:PRO:CD	2.86	0.54
1:B:168:TYR:O	1:B:171:GLN:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:343:HIS:O	1:B:344:VAL:C	2.46	0.54
1:B:388:LEU:HB2	1:B:446:HIS:CE1	2.43	0.54
1:C:1195:VAL:HG11	1:C:1241:PHE:HZ	1.72	0.54
1:C:120:PHE:HE1	1:C:159:TRP:CE3	2.26	0.54
1:C:343:HIS:O	1:C:344:VAL:C	2.46	0.54
1:C:510:ALA:O	1:C:511:SER:HB2	2.07	0.54
1:C:550:GLU:O	1:C:552:ASN:ND2	2.41	0.54
1:D:124:ASN:H	1:D:303:LYS:HZ3	1.56	0.54
1:D:301:LEU:CD2	1:D:313:PRO:CD	2.86	0.54
1:D:301:LEU:HD23	1:D:313:PRO:HD2	1.89	0.54
1:D:388:LEU:HB2	1:D:446:HIS:CE1	2.43	0.54
1:D:368:MET:HA	1:D:390:TRP:HE1	1.73	0.54
1:E:168:TYR:O	1:E:171:GLN:N	2.41	0.54
1:F:1195:VAL:HG11	1:F:1241:PHE:HZ	1.73	0.54
1:F:120:PHE:HE1	1:F:159:TRP:CE3	2.26	0.54
1:F:301:LEU:HD23	1:F:313:PRO:HD2	1.89	0.54
1:G:106:TYR:O	1:G:109:GLN:N	2.41	0.54
1:G:353:ILE:HD11	1:G:427:LEU:HA	1.89	0.54
1:G:538:LEU:CD1	1:G:571:GLU:HG2	2.37	0.54
1:H:368:MET:HE1	1:H:401:VAL:HG21	1.88	0.54
1:H:604:ASN:HB3	1:H:929:VAL:HG12	1.90	0.54
1:I:120:PHE:HE1	1:I:159:TRP:CE3	2.26	0.54
1:J:388:LEU:HB2	1:J:446:HIS:CE1	2.43	0.54
1:J:487:PHE:CD2	1:J:489:MET:HG3	2.42	0.54
1:K:106:TYR:O	1:K:109:GLN:N	2.41	0.54
1:K:301:LEU:HD23	1:K:313:PRO:HD2	1.89	0.54
1:K:124:ASN:H	1:K:303:LYS:HZ3	1.56	0.54
1:K:383:THR:N	1:K:419:THR:HA	2.21	0.54
1:K:388:LEU:HB2	1:K:446:HIS:CE1	2.43	0.54
1:L:1182:GLU:O	1:L:1183:GLU:HG3	2.08	0.54
1:L:1195:VAL:HG11	1:L:1241:PHE:HZ	1.73	0.54
1:M:168:TYR:O	1:M:171:GLN:N	2.41	0.54
1:M:301:LEU:CD2	1:M:313:PRO:CD	2.86	0.54
1:M:388:LEU:HB2	1:M:446:HIS:CE1	2.43	0.54
1:M:383:THR:N	1:M:419:THR:HA	2.21	0.54
1:N:106:TYR:O	1:N:109:GLN:N	2.41	0.54
1:O:156:GLY:HA2	2:O:1501:DTP:O1A	2.08	0.54
1:O:389:ILE:CD1	1:O:446:HIS:CD2	2.91	0.54
1:O:510:ALA:O	1:O:511:SER:HB2	2.07	0.54
1:O:604:ASN:HB3	1:O:929:VAL:HG12	1.90	0.54
1:P:353:ILE:HD11	1:P:427:LEU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:PHE:HD2	1:A:489:MET:HG3	1.72	0.54
1:A:550:GLU:O	1:A:552:ASN:ND2	2.41	0.54
1:B:1182:GLU:O	1:B:1183:GLU:HG3	2.08	0.54
1:B:301:LEU:CD2	1:B:313:PRO:CD	2.86	0.54
1:B:383:THR:N	1:B:419:THR:HA	2.21	0.54
1:C:106:TYR:O	1:C:109:GLN:N	2.41	0.54
1:C:119:VAL:HA	1:C:159:TRP:CH2	2.43	0.54
1:D:106:TYR:O	1:D:109:GLN:N	2.41	0.54
1:D:119:VAL:HA	1:D:159:TRP:CH2	2.43	0.54
1:E:100:SER:O	1:E:103:THR:N	2.41	0.54
1:E:557:LYS:CB	1:E:1226:TYR:CE1	2.87	0.54
1:F:301:LEU:CD2	1:F:313:PRO:CD	2.86	0.54
1:F:767:GLY:HA2	1:F:783:THR:HG22	1.89	0.54
1:H:150:ASP:OD1	1:H:151:GLY:N	2.40	0.54
1:H:388:LEU:CB	1:H:446:HIS:CE1	2.91	0.54
1:H:538:LEU:CG	1:H:571:GLU:HG2	2.37	0.54
1:I:301:LEU:HD23	1:I:313:PRO:HD2	1.89	0.54
1:I:388:LEU:CB	1:I:446:HIS:CE1	2.91	0.54
1:K:119:VAL:HA	1:K:159:TRP:CH2	2.43	0.54
1:K:301:LEU:CD2	1:K:313:PRO:CD	2.86	0.54
1:K:368:MET:HA	1:K:390:TRP:HE1	1.73	0.54
1:L:106:TYR:O	1:L:109:GLN:N	2.41	0.54
1:L:343:HIS:O	1:L:344:VAL:C	2.46	0.54
1:M:343:HIS:O	1:M:344:VAL:C	2.46	0.54
1:N:550:GLU:O	1:N:552:ASN:ND2	2.41	0.54
1:O:150:ASP:OD1	1:O:151:GLY:N	2.40	0.54
1:P:106:TYR:O	1:P:109:GLN:N	2.41	0.54
1:P:557:LYS:CE	1:P:1224:LEU:O	2.50	0.54
1:A:368:MET:HA	1:A:390:TRP:HE1	1.73	0.53
1:A:510:ALA:O	1:A:511:SER:HB2	2.07	0.53
1:B:120:PHE:CZ	1:B:162:LEU:HB2	2.43	0.53
1:B:743:ILE:HG22	1:B:762:LYS:HA	1.91	0.53
1:C:553:LEU:HB3	1:C:556:SER:HG	1.73	0.53
1:E:150:ASP:OD1	1:E:151:GLY:N	2.40	0.53
1:E:538:LEU:CD1	1:E:571:GLU:HG2	2.38	0.53
1:F:386:LEU:HD12	1:F:420:ILE:HD13	1.90	0.53
1:G:124:ASN:H	1:G:303:LYS:HZ3	1.56	0.53
1:H:120:PHE:CZ	1:H:162:LEU:HB2	2.43	0.53
1:H:510:ALA:O	1:H:511:SER:HB2	2.07	0.53
1:I:487:PHE:CD2	1:I:489:MET:HG3	2.42	0.53
1:I:553:LEU:HB3	1:I:556:SER:HG	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:100:SER:O	1:J:103:THR:N	2.41	0.53
1:J:557:LYS:CB	1:J:1226:TYR:CE1	2.87	0.53
1:J:171:GLN:HE22	1:J:178:ILE:HD12	1.74	0.53
1:J:767:GLY:HA2	1:J:783:THR:HG22	1.89	0.53
1:L:557:LYS:CB	1:L:1226:TYR:CE1	2.87	0.53
1:L:550:GLU:O	1:L:552:ASN:ND2	2.41	0.53
1:M:114:TYR:O	1:M:117:ASN:N	2.36	0.53
1:M:1182:GLU:O	1:M:1183:GLU:HG3	2.08	0.53
1:M:120:PHE:CZ	1:M:162:LEU:HB2	2.43	0.53
1:N:386:LEU:HD12	1:N:420:ILE:HD13	1.90	0.53
1:N:510:ALA:O	1:N:511:SER:HB2	2.07	0.53
1:P:538:LEU:CD1	1:P:571:GLU:HG2	2.38	0.53
1:P:604:ASN:HB3	1:P:929:VAL:HG12	1.90	0.53
1:B:100:SER:O	1:B:103:THR:N	2.41	0.53
1:B:114:TYR:O	1:B:117:ASN:N	2.36	0.53
1:B:171:GLN:HE22	1:B:178:ILE:HD12	1.74	0.53
1:B:389:ILE:CD1	1:B:446:HIS:CD2	2.91	0.53
1:D:120:PHE:HZ	1:D:162:LEU:HB2	1.73	0.53
1:E:386:LEU:HD12	1:E:420:ILE:HD13	1.90	0.53
1:E:487:PHE:HD2	1:E:489:MET:HG3	1.72	0.53
1:E:767:GLY:HA2	1:E:783:THR:HG22	1.89	0.53
1:F:106:TYR:O	1:F:109:GLN:N	2.41	0.53
1:F:1182:GLU:O	1:F:1183:GLU:HG3	2.08	0.53
1:G:120:PHE:CZ	1:G:162:LEU:HB2	2.43	0.53
1:G:557:LYS:CE	1:G:1224:LEU:O	2.51	0.53
1:G:156:GLY:HA2	2:G:1501:DTP:O2A	2.08	0.53
1:G:168:TYR:O	1:G:171:GLN:N	2.41	0.53
1:G:604:ASN:HB3	1:G:929:VAL:HG12	1.90	0.53
1:I:301:LEU:CD2	1:I:313:PRO:CD	2.86	0.53
1:J:150:ASP:OD1	1:J:151:GLY:N	2.40	0.53
1:J:120:PHE:HZ	1:J:162:LEU:HB2	1.73	0.53
1:J:386:LEU:HD12	1:J:420:ILE:HD13	1.90	0.53
1:J:538:LEU:CD1	1:J:571:GLU:HG2	2.38	0.53
1:K:120:PHE:HZ	1:K:162:LEU:HB2	1.73	0.53
1:L:119:VAL:HA	1:L:159:TRP:CH2	2.43	0.53
1:M:100:SER:O	1:M:103:THR:N	2.41	0.53
1:M:171:GLN:HE22	1:M:178:ILE:HD12	1.74	0.53
1:M:389:ILE:CD1	1:M:446:HIS:CD2	2.91	0.53
1:N:119:VAL:HA	1:N:159:TRP:CH2	2.43	0.53
1:O:120:PHE:CZ	1:O:162:LEU:HB2	2.43	0.53
1:O:388:LEU:CB	1:O:446:HIS:CE1	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:538:LEU:CG	1:O:571:GLU:HG2	2.37	0.53
1:P:156:GLY:HA2	2:P:1501:DTP:O1A	2.08	0.53
1:P:168:TYR:O	1:P:171:GLN:N	2.41	0.53
1:A:119:VAL:HA	1:A:159:TRP:CH2	2.43	0.53
1:A:120:PHE:CZ	1:A:162:LEU:HB2	2.43	0.53
1:A:386:LEU:HD12	1:A:420:ILE:HD13	1.90	0.53
1:A:548:LYS:HZ2	1:A:601:GLN:H	1.56	0.53
1:B:248:GLN:CD	1:B:268:PHE:CE2	2.74	0.53
1:B:388:LEU:CB	1:B:446:HIS:CE1	2.91	0.53
1:C:388:LEU:HB2	1:C:446:HIS:CE1	2.43	0.53
1:D:343:HIS:O	1:D:344:VAL:C	2.46	0.53
1:E:120:PHE:HZ	1:E:162:LEU:HB2	1.73	0.53
1:E:171:GLN:HE22	1:E:178:ILE:HD12	1.74	0.53
1:E:388:LEU:CB	1:E:446:HIS:CE1	2.91	0.53
1:F:388:LEU:CB	1:F:446:HIS:CE1	2.91	0.53
1:F:487:PHE:CD2	1:F:489:MET:HG3	2.42	0.53
1:G:450:PRO:HG2	1:G:471:ILE:HD11	1.90	0.53
1:I:106:TYR:O	1:I:109:GLN:N	2.41	0.53
1:I:1182:GLU:O	1:I:1183:GLU:HG3	2.08	0.53
1:I:548:LYS:HZ2	1:I:601:GLN:H	1.53	0.53
1:I:767:GLY:HA2	1:I:783:THR:HG22	1.89	0.53
1:J:388:LEU:CB	1:J:446:HIS:CE1	2.91	0.53
1:J:487:PHE:HD2	1:J:489:MET:HG3	1.72	0.53
1:K:150:ASP:OD1	1:K:151:GLY:N	2.40	0.53
1:K:343:HIS:O	1:K:344:VAL:C	2.46	0.53
1:L:637:LEU:O	1:L:638:GLU:CB	2.43	0.53
1:L:91:PRO:O	1:L:94:THR:OG1	2.22	0.53
1:M:388:LEU:CB	1:M:446:HIS:CE1	2.91	0.53
1:M:743:ILE:HG22	1:M:762:LYS:HA	1.91	0.53
1:N:368:MET:HA	1:N:390:TRP:HE1	1.73	0.53
1:N:397:ASP:HA	1:N:400:VAL:HB	1.89	0.53
1:N:487:PHE:HD2	1:N:489:MET:HG3	1.72	0.53
1:P:120:PHE:CZ	1:P:162:LEU:HB2	2.43	0.53
1:P:450:PRO:HG2	1:P:471:ILE:HD11	1.90	0.53
1:A:343:HIS:O	1:A:344:VAL:C	2.46	0.53
1:B:106:TYR:O	1:B:109:GLN:N	2.41	0.53
1:B:119:VAL:HA	1:B:159:TRP:CH2	2.43	0.53
1:B:313:PRO:HA	1:B:338:TRP:HH2	1.63	0.53
1:C:557:LYS:CB	1:C:1226:TYR:CE1	2.87	0.53
1:C:156:GLY:HA2	2:C:1501:DTP:O2A	2.08	0.53
1:C:248:GLN:CD	1:C:268:PHE:CE2	2.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:156:GLY:HA2	2:D:1501:DTP:O2A	2.08	0.53
1:D:550:GLU:O	1:D:552:ASN:ND2	2.41	0.53
1:E:301:LEU:CD2	1:E:313:PRO:CD	2.86	0.53
1:E:301:LEU:HD23	1:E:313:PRO:HD2	1.89	0.53
1:E:743:ILE:HG22	1:E:762:LYS:HA	1.91	0.53
1:F:553:LEU:HB3	1:F:556:SER:HG	1.73	0.53
1:G:388:LEU:CB	1:G:446:HIS:CE1	2.91	0.53
1:G:394:ILE:HD12	1:G:395:LYS:HE3	1.91	0.53
1:G:389:ILE:CD1	1:G:446:HIS:CD2	2.91	0.53
1:H:450:PRO:HG2	1:H:471:ILE:HD11	1.91	0.53
1:I:168:TYR:O	1:I:171:GLN:N	2.41	0.53
1:I:397:ASP:HA	1:I:400:VAL:HB	1.89	0.53
1:I:386:LEU:HD12	1:I:420:ILE:HD13	1.90	0.53
1:J:301:LEU:CD2	1:J:313:PRO:CD	2.86	0.53
1:J:743:ILE:HG22	1:J:762:LYS:HA	1.91	0.53
1:K:156:GLY:HA2	2:K:1501:DTP:O1A	2.08	0.53
1:K:389:ILE:CD1	1:K:446:HIS:CD2	2.91	0.53
1:L:388:LEU:HB2	1:L:446:HIS:CE1	2.43	0.53
1:M:106:TYR:O	1:M:109:GLN:N	2.41	0.53
1:M:248:GLN:CD	1:M:268:PHE:CE2	2.74	0.53
1:N:156:GLY:HA2	2:N:1501:DTP:O1A	2.08	0.53
1:P:388:LEU:CB	1:P:446:HIS:CE1	2.91	0.53
1:P:389:ILE:CD1	1:P:446:HIS:CD2	2.91	0.53
1:A:604:ASN:HB3	1:A:929:VAL:HG12	1.90	0.53
1:C:114:TYR:O	1:C:117:ASN:N	2.36	0.53
1:C:168:TYR:O	1:C:171:GLN:N	2.41	0.53
1:C:386:LEU:HD12	1:C:420:ILE:HD13	1.90	0.53
1:C:631:LEU:HD22	1:C:680:LEU:HD22	1.91	0.53
1:C:743:ILE:HG22	1:C:762:LYS:HA	1.91	0.53
1:D:150:ASP:OD1	1:D:151:GLY:N	2.41	0.53
1:D:389:ILE:CD1	1:D:446:HIS:CD2	2.91	0.53
1:E:368:MET:HA	1:E:390:TRP:HE1	1.73	0.53
1:G:171:GLN:HE22	1:G:178:ILE:HD12	1.74	0.53
1:H:106:TYR:O	1:H:109:GLN:N	2.41	0.53
1:H:119:VAL:HA	1:H:159:TRP:CH2	2.43	0.53
1:H:799:ASN:C	1:H:800:THR:HG23	2.29	0.53
1:I:120:PHE:HZ	1:I:162:LEU:HB2	1.73	0.53
1:I:631:LEU:HD22	1:I:680:LEU:HD22	1.91	0.53
1:J:301:LEU:HD23	1:J:313:PRO:HD2	1.89	0.53
1:J:410:LEU:HD22	1:J:413:LYS:HA	1.88	0.53
1:K:550:GLU:O	1:K:552:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:510:ALA:O	1:L:511:SER:HB2	2.07	0.53
1:M:119:VAL:HA	1:M:159:TRP:CH2	2.43	0.53
1:M:313:PRO:HA	1:M:338:TRP:HH2	1.63	0.53
1:N:120:PHE:CZ	1:N:162:LEU:HB2	2.43	0.53
1:N:343:HIS:O	1:N:344:VAL:C	2.46	0.53
1:N:548:LYS:HZ2	1:N:601:GLN:H	1.56	0.53
1:O:106:TYR:O	1:O:109:GLN:N	2.41	0.53
1:O:386:LEU:HD12	1:O:420:ILE:HD13	1.90	0.53
1:P:1195:VAL:HG11	1:P:1241:PHE:HZ	1.73	0.53
1:A:156:GLY:HA2	2:A:1501:DTP:O2A	2.08	0.53
1:A:397:ASP:HA	1:A:400:VAL:HB	1.89	0.53
1:B:799:ASN:C	1:B:800:THR:HG23	2.29	0.53
1:C:388:LEU:CB	1:C:446:HIS:CE1	2.91	0.53
1:C:487:PHE:HD2	1:C:489:MET:HG3	1.72	0.53
1:C:508:TRP:CZ3	1:C:927:GLN:C	2.82	0.53
1:E:508:TRP:CZ3	1:E:927:GLN:C	2.82	0.53
1:F:119:VAL:HA	1:F:159:TRP:CH2	2.43	0.53
1:F:631:LEU:HD22	1:F:680:LEU:HD22	1.91	0.53
1:F:743:ILE:HG22	1:F:762:LYS:HA	1.91	0.53
1:H:1182:GLU:O	1:H:1183:GLU:HG3	2.08	0.53
1:H:368:MET:HA	1:H:390:TRP:HE1	1.72	0.53
1:I:343:HIS:O	1:I:344:VAL:C	2.46	0.53
1:J:368:MET:HA	1:J:390:TRP:HE1	1.73	0.53
1:L:397:ASP:HA	1:L:400:VAL:HB	1.89	0.53
1:L:631:LEU:HD22	1:L:680:LEU:HD22	1.91	0.53
1:M:397:ASP:HA	1:M:400:VAL:HB	1.89	0.53
1:M:799:ASN:C	1:M:800:THR:HG23	2.29	0.53
1:N:604:ASN:HB3	1:N:929:VAL:HG12	1.90	0.53
1:O:1182:GLU:O	1:O:1183:GLU:HG3	2.08	0.53
1:O:119:VAL:HA	1:O:159:TRP:CH2	2.43	0.53
1:O:450:PRO:HG2	1:O:471:ILE:HD11	1.91	0.53
1:O:616:LEU:HD23	1:O:620:PHE:HB2	1.91	0.53
1:O:799:ASN:C	1:O:800:THR:HG23	2.29	0.53
1:P:171:GLN:HE22	1:P:178:ILE:HD12	1.74	0.53
1:P:394:ILE:HD12	1:P:395:LYS:HE3	1.91	0.53
1:A:1182:GLU:O	1:A:1183:GLU:HG3	2.08	0.53
1:B:156:GLY:HA2	2:B:1501:DTP:O2A	2.08	0.53
1:B:397:ASP:HA	1:B:400:VAL:HB	1.89	0.53
1:B:508:TRP:CZ3	1:B:927:GLN:C	2.82	0.53
1:C:397:ASP:HA	1:C:400:VAL:HB	1.89	0.53
1:D:388:LEU:CB	1:D:446:HIS:CE1	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:511:SER:C	1:D:513:SER:N	2.60	0.53
1:E:410:LEU:HD22	1:E:413:LYS:HA	1.88	0.53
1:F:120:PHE:CZ	1:F:162:LEU:HB2	2.43	0.53
1:F:120:PHE:HZ	1:F:162:LEU:HB2	1.73	0.53
1:F:171:GLN:HE22	1:F:178:ILE:HD12	1.74	0.53
1:G:1195:VAL:HG11	1:G:1241:PHE:HZ	1.73	0.53
1:G:799:ASN:C	1:G:800:THR:HG23	2.29	0.53
1:H:394:ILE:HD12	1:H:395:LYS:HE3	1.91	0.53
1:H:386:LEU:HD12	1:H:420:ILE:HD13	1.90	0.53
1:H:616:LEU:HD23	1:H:620:PHE:HB2	1.91	0.53
1:I:743:ILE:HG22	1:I:762:LYS:HA	1.91	0.53
1:K:388:LEU:CB	1:K:446:HIS:CE1	2.91	0.53
1:K:487:PHE:HD2	1:K:489:MET:HG3	1.72	0.53
1:L:388:LEU:CB	1:L:446:HIS:CE1	2.91	0.53
1:M:156:GLY:HA2	2:M:1501:DTP:O1A	2.08	0.53
1:O:120:PHE:HE1	1:O:159:TRP:CE3	2.26	0.53
1:P:799:ASN:C	1:P:800:THR:HG23	2.29	0.53
1:A:1195:VAL:HG11	1:A:1241:PHE:HZ	1.73	0.53
1:D:1182:GLU:O	1:D:1183:GLU:HG3	2.08	0.53
1:D:508:TRP:CZ3	1:D:927:GLN:C	2.82	0.53
1:F:14:ASP:OD2	1:G:142:ARG:CZ	2.55	0.53
1:F:168:TYR:O	1:F:171:GLN:N	2.41	0.53
1:F:487:PHE:HD2	1:F:489:MET:HG3	1.72	0.53
1:J:550:GLU:O	1:J:552:ASN:ND2	2.41	0.53
1:J:508:TRP:CZ3	1:J:927:GLN:C	2.82	0.53
1:L:156:GLY:HA2	2:L:1501:DTP:O1A	2.08	0.53
1:L:168:TYR:O	1:L:171:GLN:N	2.41	0.53
1:L:487:PHE:HD2	1:L:489:MET:HG3	1.72	0.53
1:N:1182:GLU:O	1:N:1183:GLU:HG3	2.08	0.53
1:N:1195:VAL:HG11	1:N:1241:PHE:HZ	1.73	0.53
1:N:743:ILE:HG22	1:N:762:LYS:HA	1.91	0.53
1:O:368:MET:HA	1:O:390:TRP:HE1	1.73	0.53
1:O:394:ILE:HD12	1:O:395:LYS:HE3	1.91	0.53
1:A:557:LYS:HZ2	1:A:1223:GLN:HG3	1.73	0.53
1:A:508:TRP:CZ3	1:A:927:GLN:C	2.82	0.53
1:A:992:ARG:HH12	1:A:1029:GLU:HG2	1.74	0.53
1:B:550:GLU:O	1:B:552:ASN:ND2	2.41	0.53
1:D:487:PHE:HD2	1:D:489:MET:HG3	1.72	0.53
1:E:156:GLY:HA2	2:E:1501:DTP:O2A	2.08	0.53
1:E:389:ILE:CD1	1:E:446:HIS:CD2	2.91	0.53
1:E:550:GLU:O	1:E:552:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:616:LEU:HD23	1:E:620:PHE:HB2	1.91	0.53
1:F:188:SER:N	1:F:251:APK:O2P	2.31	0.53
1:F:394:ILE:HD12	1:F:395:LYS:HE3	1.91	0.53
1:F:799:ASN:C	1:F:800:THR:HG23	2.29	0.53
1:F:604:ASN:HB3	1:F:929:VAL:HG12	1.90	0.53
1:H:120:PHE:HE1	1:H:159:TRP:CE3	2.26	0.53
1:H:1195:VAL:HG11	1:H:1241:PHE:HZ	1.72	0.53
1:I:119:VAL:HA	1:I:159:TRP:CH2	2.43	0.53
1:I:120:PHE:CZ	1:I:162:LEU:HB2	2.43	0.53
1:I:799:ASN:C	1:I:800:THR:HG23	2.29	0.53
1:J:120:PHE:CZ	1:J:162:LEU:HB2	2.43	0.53
1:J:156:GLY:HA2	2:J:1501:DTP:O1A	2.08	0.53
1:J:389:ILE:CD1	1:J:446:HIS:CD2	2.91	0.53
1:K:1182:GLU:O	1:K:1183:GLU:HG3	2.08	0.53
1:K:511:SER:C	1:K:513:SER:N	2.61	0.53
1:L:386:LEU:HD12	1:L:420:ILE:HD13	1.90	0.53
1:L:508:TRP:CZ3	1:L:927:GLN:C	2.82	0.53
1:L:743:ILE:HG22	1:L:762:LYS:HA	1.91	0.53
1:M:508:TRP:CZ3	1:M:927:GLN:C	2.82	0.53
1:N:992:ARG:HH12	1:N:1029:GLU:HG2	1.74	0.53
1:N:171:GLN:HE22	1:N:178:ILE:HD12	1.74	0.53
1:O:992:ARG:HH12	1:O:1029:GLU:HG2	1.74	0.53
1:B:557:LYS:HZ2	1:B:1223:GLN:HG3	1.73	0.53
1:C:171:GLN:HE22	1:C:178:ILE:HD12	1.74	0.53
1:C:799:ASN:C	1:C:800:THR:HG23	2.29	0.53
1:D:616:LEU:HD23	1:D:620:PHE:HB2	1.91	0.53
1:D:631:LEU:HD22	1:D:680:LEU:HD22	1.91	0.53
1:D:604:ASN:HB3	1:D:929:VAL:HG12	1.90	0.53
1:E:106:TYR:O	1:E:109:GLN:N	2.41	0.53
1:E:120:PHE:CZ	1:E:162:LEU:HB2	2.43	0.53
1:G:992:ARG:HH12	1:G:1029:GLU:HG2	1.74	0.53
1:G:487:PHE:HD2	1:G:489:MET:HG3	1.72	0.53
1:H:992:ARG:HH12	1:H:1029:GLU:HG2	1.74	0.53
1:I:171:GLN:HE22	1:I:178:ILE:HD12	1.74	0.53
1:I:450:PRO:HG2	1:I:471:ILE:HD11	1.90	0.53
1:I:836:VAL:HG21	1:I:876:LEU:HD22	1.91	0.53
1:J:1086:LYS:O	1:J:1087:ILE:HG13	2.09	0.53
1:J:616:LEU:HD23	1:J:620:PHE:HB2	1.91	0.53
1:J:836:VAL:HG21	1:J:876:LEU:HD22	1.91	0.53
1:K:616:LEU:HD23	1:K:620:PHE:HB2	1.91	0.53
1:K:508:TRP:CZ3	1:K:927:GLN:C	2.82	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:604:ASN:HB3	1:K:929:VAL:HG12	1.90	0.53
1:M:550:GLU:O	1:M:552:ASN:ND2	2.41	0.53
1:M:604:ASN:HB3	1:M:929:VAL:HG12	1.90	0.53
1:O:1195:VAL:HG11	1:O:1241:PHE:HZ	1.73	0.53
1:P:616:LEU:HD23	1:P:620:PHE:HB2	1.91	0.53
1:P:992:ARG:HH12	1:P:1029:GLU:HG2	1.74	0.53
1:A:743:ILE:HG22	1:A:762:LYS:HA	1.91	0.52
1:E:1182:GLU:O	1:E:1183:GLU:HG3	2.08	0.52
1:E:394:ILE:HD12	1:E:395:LYS:HE3	1.91	0.52
1:E:836:VAL:HG21	1:E:876:LEU:HD22	1.91	0.52
1:G:616:LEU:HD23	1:G:620:PHE:HB2	1.91	0.52
1:I:394:ILE:HD12	1:I:395:LYS:HE3	1.91	0.52
1:I:604:ASN:HB3	1:I:929:VAL:HG12	1.90	0.52
1:J:1182:GLU:O	1:J:1183:GLU:HG3	2.08	0.52
1:J:394:ILE:HD12	1:J:395:LYS:HE3	1.91	0.52
1:K:631:LEU:HD22	1:K:680:LEU:HD22	1.91	0.52
1:L:188:SER:N	1:L:251:APK:O2P	2.31	0.52
1:M:992:ARG:HH12	1:M:1029:GLU:HG2	1.74	0.52
1:N:378:SER:H	1:N:422:ILE:HD13	1.62	0.52
1:N:508:TRP:CZ3	1:N:927:GLN:C	2.82	0.52
1:P:518:LEU:HD22	1:P:643:TYR:CE1	2.22	0.52
1:A:171:GLN:HE22	1:A:178:ILE:HD12	1.74	0.52
1:A:450:PRO:HG2	1:A:471:ILE:HD11	1.90	0.52
1:A:912:ASP:OD2	1:A:921:CYS:SG	2.68	0.52
1:B:992:ARG:HH12	1:B:1029:GLU:HG2	1.74	0.52
1:B:1195:VAL:HG11	1:B:1241:PHE:HZ	1.73	0.52
1:C:120:PHE:CZ	1:C:162:LEU:HB2	2.43	0.52
1:D:1086:LYS:O	1:D:1087:ILE:HG13	2.09	0.52
1:E:1086:LYS:O	1:E:1087:ILE:HG13	2.09	0.52
1:E:912:ASP:OD2	1:E:921:CYS:SG	2.68	0.52
1:F:389:ILE:CD1	1:F:446:HIS:CD2	2.91	0.52
1:F:625:LEU:HD22	1:F:629:GLN:HA	1.92	0.52
1:G:1182:GLU:O	1:G:1183:GLU:HG3	2.08	0.52
1:G:386:LEU:HD12	1:G:420:ILE:HD13	1.90	0.52
1:G:518:LEU:HD22	1:G:643:TYR:CE1	2.22	0.52
1:G:553:LEU:HB3	1:G:556:SER:HG	1.74	0.52
1:G:631:LEU:HD22	1:G:680:LEU:HD22	1.91	0.52
1:I:487:PHE:HD2	1:I:489:MET:HG3	1.72	0.52
1:J:106:TYR:O	1:J:109:GLN:N	2.41	0.52
1:J:912:ASP:OD2	1:J:921:CYS:SG	2.68	0.52
1:K:1086:LYS:O	1:K:1087:ILE:HG13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:171:GLN:HE22	1:K:178:ILE:HD12	1.74	0.52
1:K:450:PRO:HG2	1:K:471:ILE:HD11	1.90	0.52
1:J:1177:TYR:CE2	1:K:916:LYS:CE	2.91	0.52
1:L:120:PHE:HZ	1:L:162:LEU:HB2	1.73	0.52
1:L:912:ASP:OD2	1:L:921:CYS:SG	2.68	0.52
1:M:557:LYS:HZ2	1:M:1223:GLN:HG3	1.73	0.52
1:N:912:ASP:OD2	1:N:921:CYS:SG	2.68	0.52
1:O:171:GLN:HE22	1:O:178:ILE:HD12	1.74	0.52
1:P:631:LEU:HD22	1:P:680:LEU:HD22	1.91	0.52
1:A:120:PHE:HZ	1:A:162:LEU:HB2	1.73	0.52
1:A:616:LEU:HD23	1:A:620:PHE:HB2	1.91	0.52
1:B:912:ASP:OD2	1:B:921:CYS:SG	2.68	0.52
1:B:604:ASN:HB3	1:B:929:VAL:HG12	1.90	0.52
1:D:346:CYS:O	1:D:350:THR:N	2.25	0.52
1:D:397:ASP:HA	1:D:400:VAL:HB	1.89	0.52
1:D:450:PRO:HG2	1:D:471:ILE:HD11	1.90	0.52
1:D:836:VAL:HG21	1:D:876:LEU:HD22	1.91	0.52
1:E:625:LEU:HD22	1:E:629:GLN:HA	1.92	0.52
1:F:1086:LYS:O	1:F:1087:ILE:HG13	2.09	0.52
1:F:183:LEU:HD11	1:F:256:PHE:HE2	1.75	0.52
1:F:450:PRO:HG2	1:F:471:ILE:HD11	1.90	0.52
1:F:836:VAL:HG21	1:F:876:LEU:HD22	1.91	0.52
1:G:397:ASP:O	1:G:401:VAL:N	2.28	0.52
1:H:171:GLN:HE22	1:H:178:ILE:HD12	1.74	0.52
1:I:912:ASP:OD2	1:I:921:CYS:SG	2.68	0.52
1:K:397:ASP:HA	1:K:400:VAL:HB	1.89	0.52
1:K:836:VAL:HG21	1:K:876:LEU:HD22	1.91	0.52
1:M:631:LEU:HD22	1:M:680:LEU:HD22	1.91	0.52
1:M:912:ASP:OD2	1:M:921:CYS:SG	2.68	0.52
1:O:743:ILE:HG22	1:O:762:LYS:HA	1.91	0.52
1:P:397:ASP:O	1:P:401:VAL:N	2.28	0.52
1:P:386:LEU:HD12	1:P:420:ILE:HD13	1.90	0.52
1:P:487:PHE:HD2	1:P:489:MET:HG3	1.72	0.52
1:C:1086:LYS:O	1:C:1087:ILE:HG13	2.09	0.52
1:C:120:PHE:HZ	1:C:162:LEU:HB2	1.73	0.52
1:D:130:PRO:HA	1:D:290:MET:HE1	1.91	0.52
1:E:631:LEU:HD22	1:E:680:LEU:HD22	1.91	0.52
1:E:799:ASN:C	1:E:800:THR:HG23	2.29	0.52
1:F:992:ARG:HH12	1:F:1029:GLU:HG2	1.74	0.52
1:G:120:PHE:HZ	1:G:162:LEU:HB2	1.73	0.52
1:H:743:ILE:HG22	1:H:762:LYS:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:992:ARG:HH12	1:I:1029:GLU:HG2	1.74	0.52
1:I:1086:LYS:O	1:I:1087:ILE:HG13	2.09	0.52
1:I:183:LEU:HD11	1:I:256:PHE:HE2	1.75	0.52
1:I:625:LEU:HD22	1:I:629:GLN:HA	1.92	0.52
1:J:36:PRO:O	1:J:39:ILE:HG22	2.10	0.52
1:J:625:LEU:HD22	1:J:629:GLN:HA	1.92	0.52
1:J:631:LEU:HD22	1:J:680:LEU:HD22	1.91	0.52
1:K:276:SER:OG	1:L:122:LYS:CG	2.57	0.52
1:L:346:CYS:O	1:L:350:THR:N	2.25	0.52
1:L:36:PRO:O	1:L:39:ILE:HG22	2.10	0.52
1:M:1195:VAL:HG11	1:M:1241:PHE:HZ	1.73	0.52
1:N:120:PHE:HZ	1:N:162:LEU:HB2	1.73	0.52
1:N:450:PRO:HG2	1:N:471:ILE:HD11	1.90	0.52
1:P:1182:GLU:O	1:P:1183:GLU:HG3	2.08	0.52
1:A:378:SER:H	1:A:422:ILE:HD13	1.62	0.52
1:A:394:ILE:HD12	1:A:395:LYS:HE3	1.91	0.52
1:B:631:LEU:HD22	1:B:680:LEU:HD22	1.91	0.52
1:C:122:LYS:HG3	1:D:276:SER:HB2	1.91	0.52
1:C:14:ASP:OD2	1:D:142:ARG:CZ	2.57	0.52
1:C:188:SER:N	1:C:251:APK:O2P	2.31	0.52
1:C:36:PRO:O	1:C:39:ILE:HG22	2.10	0.52
1:D:518:LEU:HD22	1:D:643:TYR:CE1	2.22	0.52
1:D:625:LEU:HD22	1:D:629:GLN:HA	1.92	0.52
1:E:36:PRO:O	1:E:39:ILE:HG22	2.10	0.52
1:F:912:ASP:OD2	1:F:921:CYS:SG	2.68	0.52
1:G:508:TRP:CZ3	1:G:927:GLN:C	2.82	0.52
1:H:508:TRP:CZ3	1:H:927:GLN:C	2.82	0.52
1:J:343:HIS:O	1:J:344:VAL:C	2.46	0.52
1:J:799:ASN:C	1:J:800:THR:HG23	2.29	0.52
1:K:625:LEU:HD22	1:K:629:GLN:HA	1.92	0.52
1:L:120:PHE:CZ	1:L:162:LEU:HB2	2.43	0.52
1:L:171:GLN:HE22	1:L:178:ILE:HD12	1.74	0.52
1:N:394:ILE:HD12	1:N:395:LYS:HE3	1.91	0.52
1:N:616:LEU:HD23	1:N:620:PHE:HB2	1.91	0.52
1:N:625:LEU:HD22	1:N:629:GLN:HA	1.92	0.52
1:P:162:LEU:O	1:P:165:CYS:N	2.43	0.52
1:A:625:LEU:HD22	1:A:629:GLN:HA	1.92	0.52
1:C:346:CYS:O	1:C:350:THR:N	2.25	0.52
1:D:992:ARG:HH12	1:D:1029:GLU:HG2	1.74	0.52
1:D:171:GLN:HE22	1:D:178:ILE:HD12	1.74	0.52
1:G:548:LYS:HZ2	1:G:601:GLN:H	1.54	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:743:ILE:HG22	1:G:762:LYS:HA	1.91	0.52
1:H:162:LEU:O	1:H:165:CYS:N	2.43	0.52
1:K:120:PHE:CZ	1:K:162:LEU:HB2	2.43	0.52
1:K:130:PRO:HA	1:K:290:MET:HE1	1.91	0.52
1:K:346:CYS:O	1:K:350:THR:N	2.25	0.52
1:L:450:PRO:HG2	1:L:471:ILE:HD11	1.91	0.52
1:N:518:LEU:HD12	1:N:518:LEU:N	2.20	0.52
1:O:162:LEU:O	1:O:165:CYS:N	2.43	0.52
1:O:375:PHE:CD2	1:O:381:ILE:HG12	2.45	0.52
1:O:508:TRP:CZ3	1:O:927:GLN:C	2.82	0.52
1:A:183:LEU:HD11	1:A:256:PHE:HE2	1.75	0.52
1:A:799:ASN:C	1:A:800:THR:HG23	2.29	0.52
1:A:836:VAL:HG21	1:A:876:LEU:HD22	1.91	0.52
1:B:616:LEU:HD23	1:B:620:PHE:HB2	1.91	0.52
1:B:631:LEU:H	1:B:646:ARG:HB3	1.74	0.52
1:C:992:ARG:HH12	1:C:1029:GLU:HG2	1.74	0.52
1:C:450:PRO:HG2	1:C:471:ILE:HD11	1.91	0.52
1:C:631:LEU:H	1:C:646:ARG:HB3	1.74	0.52
1:D:120:PHE:CZ	1:D:162:LEU:HB2	2.43	0.52
1:D:799:ASN:C	1:D:800:THR:HG23	2.29	0.52
1:D:912:ASP:OD2	1:D:921:CYS:SG	2.68	0.52
1:E:343:HIS:O	1:E:344:VAL:C	2.46	0.52
1:E:511:SER:C	1:E:513:SER:N	2.60	0.52
1:E:553:LEU:HB3	1:E:556:SER:HG	1.75	0.52
1:F:883:ILE:HA	1:F:898:VAL:HB	1.92	0.52
1:G:1086:LYS:O	1:G:1087:ILE:HG13	2.09	0.52
1:G:162:LEU:O	1:G:165:CYS:N	2.43	0.52
1:H:343:HIS:O	1:H:344:VAL:C	2.46	0.52
1:H:375:PHE:CD2	1:H:381:ILE:HG12	2.45	0.52
1:H:631:LEU:H	1:H:646:ARG:HB3	1.74	0.52
1:I:389:ILE:CD1	1:I:446:HIS:CD2	2.91	0.52
1:I:883:ILE:HA	1:I:898:VAL:HB	1.92	0.52
1:J:183:LEU:HD11	1:J:256:PHE:HE2	1.75	0.52
1:J:604:ASN:HB3	1:J:929:VAL:HG12	1.90	0.52
1:K:992:ARG:HH12	1:K:1029:GLU:HG2	1.74	0.52
1:K:36:PRO:O	1:K:39:ILE:HG22	2.10	0.52
1:K:375:PHE:CD2	1:K:381:ILE:HG12	2.45	0.52
1:L:1086:LYS:O	1:L:1087:ILE:HG13	2.09	0.52
1:N:183:LEU:HD11	1:N:256:PHE:HE2	1.75	0.52
1:N:799:ASN:C	1:N:800:THR:HG23	2.29	0.52
1:O:343:HIS:O	1:O:344:VAL:C	2.46	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:631:LEU:H	1:O:646:ARG:HB3	1.74	0.52
1:O:63:TRP:CZ3	1:O:126:SER:HB2	2.45	0.52
1:P:1086:LYS:O	1:P:1087:ILE:HG13	2.09	0.52
1:P:120:PHE:HZ	1:P:162:LEU:HB2	1.73	0.52
1:P:548:LYS:HZ2	1:P:601:GLN:H	1.54	0.52
1:P:743:ILE:HG22	1:P:762:LYS:HA	1.91	0.52
1:P:508:TRP:CZ3	1:P:927:GLN:C	2.82	0.52
1:A:373:SER:HB3	1:A:433:LEU:CG	2.40	0.52
1:A:518:LEU:N	1:A:518:LEU:HD12	2.20	0.52
1:C:394:ILE:HD12	1:C:395:LYS:HE3	1.91	0.52
1:D:36:PRO:O	1:D:39:ILE:HG22	2.10	0.52
1:D:375:PHE:CD2	1:D:381:ILE:HG12	2.45	0.52
1:E:183:LEU:HD11	1:E:256:PHE:HE2	1.75	0.52
1:E:450:PRO:HG2	1:E:471:ILE:HD11	1.90	0.52
1:E:604:ASN:HB3	1:E:929:VAL:HG12	1.90	0.52
1:F:162:LEU:O	1:F:165:CYS:N	2.43	0.52
1:F:343:HIS:O	1:F:344:VAL:C	2.46	0.52
1:F:375:PHE:CD2	1:F:381:ILE:HG12	2.45	0.52
1:H:912:ASP:OD2	1:H:921:CYS:SG	2.68	0.52
1:I:162:LEU:O	1:I:165:CYS:N	2.43	0.52
1:I:188:SER:N	1:I:251:APK:O2P	2.31	0.52
1:J:375:PHE:CD2	1:J:381:ILE:HG12	2.45	0.52
1:J:553:LEU:HB3	1:J:556:SER:HG	1.75	0.52
1:K:518:LEU:HD22	1:K:643:TYR:CE1	2.22	0.52
1:K:799:ASN:C	1:K:800:THR:HG23	2.29	0.52
1:K:912:ASP:OD2	1:K:921:CYS:SG	2.68	0.52
1:L:248:GLN:CD	1:L:268:PHE:CE2	2.74	0.52
1:L:373:SER:HB3	1:L:433:LEU:CG	2.40	0.52
1:L:375:PHE:CD2	1:L:381:ILE:HG12	2.45	0.52
1:L:616:LEU:HD23	1:L:620:PHE:HB2	1.91	0.52
1:L:992:ARG:HH12	1:L:1029:GLU:HG2	1.74	0.52
1:N:162:LEU:O	1:N:165:CYS:N	2.43	0.52
1:N:373:SER:HB3	1:N:433:LEU:CG	2.40	0.52
1:N:836:VAL:HG21	1:N:876:LEU:HD22	1.91	0.52
1:O:912:ASP:OD2	1:O:921:CYS:SG	2.68	0.52
1:P:368:MET:HA	1:P:390:TRP:HE1	1.73	0.52
1:A:162:LEU:O	1:A:165:CYS:N	2.43	0.52
1:A:467:PHE:HD1	1:A:471:ILE:HD12	1.75	0.52
1:B:1086:LYS:O	1:B:1087:ILE:HG13	2.09	0.52
1:B:36:PRO:O	1:B:39:ILE:HG22	2.10	0.52
1:C:162:LEU:O	1:C:165:CYS:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:373:SER:HB3	1:C:433:LEU:CG	2.40	0.52
1:C:467:PHE:HD1	1:C:471:ILE:HD12	1.75	0.52
1:D:394:ILE:HD12	1:D:395:LYS:HE3	1.91	0.52
1:E:992:ARG:HH12	1:E:1029:GLU:HG2	1.74	0.52
1:E:63:TRP:CZ3	1:E:126:SER:HB2	2.45	0.52
1:E:375:PHE:CD2	1:E:381:ILE:HG12	2.45	0.52
1:F:36:PRO:O	1:F:39:ILE:HG22	2.10	0.52
1:F:508:TRP:CZ3	1:F:927:GLN:C	2.82	0.52
1:G:343:HIS:O	1:G:344:VAL:C	2.46	0.52
1:G:36:PRO:O	1:G:39:ILE:HG22	2.10	0.52
1:H:63:TRP:CZ3	1:H:126:SER:HB2	2.45	0.52
1:J:992:ARG:HH12	1:J:1029:GLU:HG2	1.74	0.52
1:J:450:PRO:HG2	1:J:471:ILE:HD11	1.91	0.52
1:K:394:ILE:HD12	1:K:395:LYS:HE3	1.91	0.52
1:K:883:ILE:HA	1:K:898:VAL:HB	1.92	0.52
1:L:799:ASN:C	1:L:800:THR:HG23	2.29	0.52
1:M:1086:LYS:O	1:M:1087:ILE:HG13	2.09	0.52
1:M:36:PRO:O	1:M:39:ILE:HG22	2.10	0.52
1:M:631:LEU:H	1:M:646:ARG:HB3	1.74	0.52
1:N:1086:LYS:O	1:N:1087:ILE:HG13	2.09	0.52
1:N:467:PHE:HD1	1:N:471:ILE:HD12	1.75	0.52
1:P:36:PRO:O	1:P:39:ILE:HG22	2.10	0.52
1:P:553:LEU:HB3	1:P:556:SER:HG	1.74	0.52
1:P:836:VAL:HG21	1:P:876:LEU:HD22	1.91	0.52
1:B:492:LEU:HD11	1:B:561:LEU:CD2	2.40	0.52
1:C:557:LYS:HZ2	1:C:1223:GLN:HG3	1.74	0.52
1:C:375:PHE:CD2	1:C:381:ILE:HG12	2.45	0.52
1:C:604:ASN:HB3	1:C:929:VAL:HG12	1.90	0.52
1:E:373:SER:HB3	1:E:433:LEU:CG	2.40	0.52
1:G:625:LEU:HD22	1:G:629:GLN:HA	1.92	0.52
1:G:836:VAL:HG21	1:G:876:LEU:HD22	1.91	0.52
1:H:1086:LYS:O	1:H:1087:ILE:HG13	2.09	0.52
1:J:373:SER:HB3	1:J:433:LEU:CG	2.40	0.52
1:J:63:TRP:CZ3	1:J:126:SER:HB2	2.45	0.52
1:L:467:PHE:HD1	1:L:471:ILE:HD12	1.75	0.52
1:L:836:VAL:HG21	1:L:876:LEU:HD22	1.91	0.52
1:L:604:ASN:HB3	1:L:929:VAL:HG12	1.90	0.52
1:M:492:LEU:HD11	1:M:561:LEU:CD2	2.40	0.52
1:M:616:LEU:HD23	1:M:620:PHE:HB2	1.91	0.52
1:N:386:LEU:HD21	1:N:390:TRP:HZ3	1.75	0.52
1:N:661:ASN:OD1	1:N:662:GLN:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1086:LYS:O	1:O:1087:ILE:HG13	2.09	0.52
1:O:661:ASN:OD1	1:O:662:GLN:N	2.44	0.52
1:P:373:SER:HB3	1:P:433:LEU:CG	2.40	0.52
1:P:625:LEU:HD22	1:P:629:GLN:HA	1.92	0.52
1:A:1086:LYS:O	1:A:1087:ILE:HG13	2.09	0.51
1:A:386:LEU:HD21	1:A:390:TRP:HZ3	1.76	0.51
1:A:661:ASN:OD1	1:A:662:GLN:N	2.44	0.51
1:B:554:ILE:C	1:B:556:SER:H	2.13	0.51
1:C:492:LEU:HD11	1:C:561:LEU:CD2	2.40	0.51
1:C:616:LEU:HD23	1:C:620:PHE:HB2	1.91	0.51
1:D:386:LEU:HD21	1:D:390:TRP:HZ3	1.75	0.51
1:D:883:ILE:HA	1:D:898:VAL:HB	1.92	0.51
1:G:368:MET:HA	1:G:390:TRP:HE1	1.73	0.51
1:G:373:SER:HB3	1:G:433:LEU:CG	2.40	0.51
1:G:661:ASN:OD1	1:G:662:GLN:N	2.44	0.51
1:G:912:ASP:OD2	1:G:921:CYS:SG	2.68	0.51
1:H:36:PRO:O	1:H:39:ILE:HG22	2.10	0.51
1:H:661:ASN:OD1	1:H:662:GLN:N	2.44	0.51
1:H:631:LEU:HD22	1:H:680:LEU:HD22	1.91	0.51
1:I:36:PRO:O	1:I:39:ILE:HG22	2.10	0.51
1:I:373:SER:HB3	1:I:433:LEU:CG	2.40	0.51
1:I:375:PHE:CD2	1:I:381:ILE:HG12	2.45	0.51
1:I:508:TRP:CZ3	1:I:927:GLN:C	2.82	0.51
1:J:511:SER:C	1:J:513:SER:N	2.60	0.51
1:K:386:LEU:HD21	1:K:390:TRP:HZ3	1.76	0.51
1:L:162:LEU:O	1:L:165:CYS:N	2.43	0.51
1:L:394:ILE:HD12	1:L:395:LYS:HE3	1.91	0.51
1:M:63:TRP:CZ3	1:M:126:SER:HB2	2.45	0.51
1:M:554:ILE:C	1:M:556:SER:H	2.13	0.51
1:O:365:TYR:O	1:O:368:MET:N	2.21	0.51
1:O:36:PRO:O	1:O:39:ILE:HG22	2.10	0.51
1:P:343:HIS:O	1:P:344:VAL:C	2.46	0.51
1:P:661:ASN:OD1	1:P:662:GLN:N	2.43	0.51
1:P:912:ASP:OD2	1:P:921:CYS:SG	2.68	0.51
1:A:557:LYS:CB	1:A:1226:TYR:CE1	2.87	0.51
1:B:488:ARG:HA	1:B:491:PHE:H	1.75	0.51
1:B:625:LEU:HD22	1:B:629:GLN:HA	1.92	0.51
1:B:661:ASN:OD1	1:B:662:GLN:N	2.44	0.51
1:B:994:HIS:HE1	1:B:1023:ILE:HG23	1.75	0.51
1:C:115:ASN:HB3	1:D:257:ASN:HD21	1.75	0.51
1:C:488:ARG:HA	1:C:491:PHE:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:286:ASP:OD1	1:D:287:HIS:N	2.44	0.51
1:D:661:ASN:OD1	1:D:662:GLN:N	2.43	0.51
1:D:994:HIS:HE1	1:D:1023:ILE:HG23	1.75	0.51
1:F:373:SER:HB3	1:F:433:LEU:CG	2.40	0.51
1:F:480:HIS:HB2	1:F:481:PRO:HD3	1.92	0.51
1:G:479:GLU:HB3	1:G:482:GLU:HB3	1.92	0.51
1:H:553:LEU:HB3	1:H:556:SER:HG	1.75	0.51
1:H:836:VAL:HG21	1:H:876:LEU:HD22	1.91	0.51
1:I:994:HIS:HE1	1:I:1023:ILE:HG23	1.75	0.51
1:I:557:LYS:CB	1:I:1226:TYR:CE1	2.87	0.51
1:I:63:TRP:CZ3	1:I:126:SER:HB2	2.45	0.51
1:K:661:ASN:OD1	1:K:662:GLN:N	2.44	0.51
1:L:554:ILE:C	1:L:556:SER:H	2.13	0.51
1:M:373:SER:HB3	1:M:433:LEU:CG	2.40	0.51
1:M:625:LEU:HD22	1:M:629:GLN:HA	1.92	0.51
1:M:661:ASN:OD1	1:M:662:GLN:N	2.43	0.51
1:N:631:LEU:H	1:N:646:ARG:HB3	1.74	0.51
1:O:120:PHE:HZ	1:O:162:LEU:HB2	1.73	0.51
1:O:631:LEU:HD22	1:O:680:LEU:HD22	1.91	0.51
1:O:836:VAL:HG21	1:O:876:LEU:HD22	1.91	0.51
1:B:375:PHE:CD2	1:B:381:ILE:HG12	2.45	0.51
1:B:63:TRP:CZ3	1:B:126:SER:HB2	2.45	0.51
1:C:479:GLU:HB3	1:C:482:GLU:HB3	1.92	0.51
1:C:625:LEU:HD22	1:C:629:GLN:HA	1.92	0.51
1:E:994:HIS:HE1	1:E:1023:ILE:HG23	1.75	0.51
1:E:631:LEU:H	1:E:646:ARG:HB3	1.74	0.51
1:F:368:MET:HA	1:F:390:TRP:HE1	1.73	0.51
1:F:63:TRP:CZ3	1:F:126:SER:HB2	2.45	0.51
1:G:431:VAL:HB	1:G:432:LYS:HB2	1.93	0.51
1:H:183:LEU:HD11	1:H:256:PHE:HE2	1.75	0.51
1:I:368:MET:HA	1:I:390:TRP:HE1	1.73	0.51
1:I:631:LEU:H	1:I:646:ARG:HB3	1.74	0.51
1:K:994:HIS:HE1	1:K:1023:ILE:HG23	1.76	0.51
1:K:286:ASP:OD1	1:K:287:HIS:N	2.44	0.51
1:K:386:LEU:HD12	1:K:420:ILE:HD13	1.90	0.51
1:K:743:ILE:HG22	1:K:762:LYS:HA	1.91	0.51
1:L:492:LEU:HD11	1:L:561:LEU:CD2	2.40	0.51
1:L:625:LEU:HD22	1:L:629:GLN:HA	1.92	0.51
1:L:63:TRP:CZ3	1:L:126:SER:HB2	2.45	0.51
1:L:631:LEU:H	1:L:646:ARG:HB3	1.74	0.51
1:M:994:HIS:HE1	1:M:1023:ILE:HG23	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:375:PHE:CD2	1:M:381:ILE:HG12	2.45	0.51
1:M:450:PRO:HG2	1:M:471:ILE:HD11	1.90	0.51
1:M:488:ARG:HA	1:M:491:PHE:H	1.75	0.51
1:N:36:PRO:O	1:N:39:ILE:HG22	2.10	0.51
1:O:183:LEU:HD11	1:O:256:PHE:HE2	1.75	0.51
1:O:625:LEU:HD22	1:O:629:GLN:HA	1.92	0.51
1:P:375:PHE:CD2	1:P:381:ILE:HG12	2.45	0.51
1:P:431:VAL:HB	1:P:432:LYS:HB2	1.93	0.51
1:A:994:HIS:HE1	1:A:1023:ILE:HG23	1.75	0.51
1:A:307:CYS:HB3	1:A:311:ASP:OD2	2.11	0.51
1:A:36:PRO:O	1:A:39:ILE:HG22	2.10	0.51
1:A:554:ILE:C	1:A:556:SER:H	2.13	0.51
1:A:631:LEU:H	1:A:646:ARG:HB3	1.74	0.51
1:B:557:LYS:CB	1:B:1226:TYR:CE1	2.87	0.51
1:B:373:SER:HB3	1:B:433:LEU:CG	2.40	0.51
1:B:450:PRO:HG2	1:B:471:ILE:HD11	1.90	0.51
1:C:301:LEU:CD2	1:C:313:PRO:CG	2.87	0.51
1:C:554:ILE:C	1:C:556:SER:H	2.13	0.51
1:C:836:VAL:HG21	1:C:876:LEU:HD22	1.91	0.51
1:C:912:ASP:OD2	1:C:921:CYS:SG	2.68	0.51
1:D:386:LEU:HD12	1:D:420:ILE:HD13	1.90	0.51
1:E:661:ASN:OD1	1:E:662:GLN:N	2.44	0.51
1:F:631:LEU:H	1:F:646:ARG:HB3	1.74	0.51
1:G:307:CYS:HB3	1:G:311:ASP:OD2	2.11	0.51
1:G:375:PHE:CD2	1:G:381:ILE:HG12	2.45	0.51
1:H:120:PHE:HZ	1:H:162:LEU:HB2	1.73	0.51
1:H:480:HIS:HB2	1:H:481:PRO:HD3	1.93	0.51
1:H:625:LEU:HD22	1:H:629:GLN:HA	1.92	0.51
1:I:253:TRP:CH2	1:I:262:ILE:HD11	2.46	0.51
1:I:480:HIS:HB2	1:I:481:PRO:HD3	1.93	0.51
1:I:492:LEU:HD11	1:I:561:LEU:CD2	2.40	0.51
1:J:994:HIS:HE1	1:J:1023:ILE:HG23	1.75	0.51
1:J:286:ASP:OD1	1:J:287:HIS:N	2.44	0.51
1:J:467:PHE:HD1	1:J:471:ILE:HD12	1.75	0.51
1:J:631:LEU:H	1:J:646:ARG:HB3	1.74	0.51
1:J:661:ASN:OD1	1:J:662:GLN:N	2.43	0.51
1:M:557:LYS:CB	1:M:1226:TYR:CE1	2.87	0.51
1:N:994:HIS:HE1	1:N:1023:ILE:HG23	1.75	0.51
1:N:554:ILE:C	1:N:556:SER:H	2.13	0.51
1:O:480:HIS:HB2	1:O:481:PRO:HD3	1.93	0.51
1:O:638:GLU:OE1	1:O:640:GLU:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:307:CYS:HB3	1:P:311:ASP:OD2	2.11	0.51
1:A:253:TRP:CH2	1:A:262:ILE:HD11	2.46	0.51
1:A:248:GLN:CD	1:A:268:PHE:CE2	2.74	0.51
1:B:162:LEU:O	1:B:165:CYS:N	2.43	0.51
1:B:394:ILE:HD12	1:B:395:LYS:HE3	1.91	0.51
1:B:397:ASP:O	1:B:401:VAL:N	2.28	0.51
1:B:511:SER:C	1:B:513:SER:N	2.60	0.51
1:B:901:HIS:CG	1:B:902:ILE:H	2.29	0.51
1:C:63:TRP:CZ3	1:C:126:SER:HB2	2.45	0.51
1:C:307:CYS:HB3	1:C:311:ASP:OD2	2.11	0.51
1:D:183:LEU:HD11	1:D:256:PHE:HE2	1.75	0.51
1:D:373:SER:HB3	1:D:433:LEU:CG	2.40	0.51
1:D:551:GLU:HB3	1:D:605:LEU:O	2.11	0.51
1:D:743:ILE:HG22	1:D:762:LYS:HA	1.91	0.51
1:D:901:HIS:CG	1:D:902:ILE:H	2.29	0.51
1:E:286:ASP:OD1	1:E:287:HIS:N	2.44	0.51
1:F:467:PHE:HD1	1:F:471:ILE:HD12	1.75	0.51
1:F:492:LEU:HD11	1:F:561:LEU:CD2	2.40	0.51
1:G:901:HIS:CG	1:G:902:ILE:H	2.29	0.51
1:H:253:TRP:CH2	1:H:262:ILE:HD11	2.46	0.51
1:H:365:TYR:O	1:H:368:MET:N	2.21	0.51
1:H:638:GLU:OE1	1:H:640:GLU:N	2.42	0.51
1:I:467:PHE:HD1	1:I:471:ILE:HD12	1.75	0.51
1:I:901:HIS:CG	1:I:902:ILE:H	2.29	0.51
1:K:183:LEU:HD11	1:K:256:PHE:HE2	1.75	0.51
1:K:551:GLU:HB3	1:K:605:LEU:O	2.11	0.51
1:K:901:HIS:CG	1:K:902:ILE:H	2.29	0.51
1:L:307:CYS:HB3	1:L:311:ASP:OD2	2.11	0.51
1:M:162:LEU:O	1:M:165:CYS:N	2.43	0.51
1:M:463:LEU:HD22	1:M:467:PHE:HD2	1.74	0.51
1:M:901:HIS:CG	1:M:902:ILE:H	2.29	0.51
1:N:253:TRP:CH2	1:N:262:ILE:HD11	2.46	0.51
1:N:307:CYS:HB3	1:N:311:ASP:OD2	2.11	0.51
1:O:253:TRP:CH2	1:O:262:ILE:HD11	2.46	0.51
1:P:479:GLU:HB3	1:P:482:GLU:HB3	1.92	0.51
1:A:883:ILE:HA	1:A:898:VAL:HB	1.92	0.51
1:B:120:PHE:HZ	1:B:162:LEU:HB2	1.73	0.51
1:B:463:LEU:HD22	1:B:467:PHE:HD2	1.74	0.51
1:B:836:VAL:HG21	1:B:876:LEU:HD22	1.91	0.51
1:B:883:ILE:HA	1:B:898:VAL:HB	1.92	0.51
1:C:286:ASP:OD1	1:C:287:HIS:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:162:LEU:O	1:E:165:CYS:N	2.43	0.51
1:E:467:PHE:HD1	1:E:471:ILE:HD12	1.75	0.51
1:F:557:LYS:CB	1:F:1226:TYR:CE1	2.87	0.51
1:F:253:TRP:CH2	1:F:262:ILE:HD11	2.46	0.51
1:F:386:LEU:HD21	1:F:390:TRP:HZ3	1.75	0.51
1:F:458:LEU:CG	1:F:587:ARG:NH2	2.74	0.51
1:F:616:LEU:HD23	1:F:620:PHE:HB2	1.91	0.51
1:F:901:HIS:CG	1:F:902:ILE:H	2.29	0.51
1:F:916:LYS:HE3	1:G:1177:TYR:CE2	2.42	0.51
1:G:541:ALA:O	1:G:544:ASP:N	2.30	0.51
1:G:638:GLU:OE1	1:G:640:GLU:N	2.42	0.51
1:G:63:TRP:CZ3	1:G:126:SER:HB2	2.45	0.51
1:G:631:LEU:H	1:G:646:ARG:HB3	1.74	0.51
1:H:463:LEU:HD22	1:H:467:PHE:HD2	1.74	0.51
1:I:551:GLU:HB3	1:I:605:LEU:O	2.11	0.51
1:J:162:LEU:O	1:J:165:CYS:N	2.43	0.51
1:K:431:VAL:HB	1:K:432:LYS:HB2	1.93	0.51
1:K:222:HIS:CD2	1:L:198:LYS:HZ1	2.27	0.51
1:L:386:LEU:HD21	1:L:390:TRP:HZ3	1.75	0.51
1:L:463:LEU:CD2	1:L:467:PHE:CD2	2.92	0.51
1:L:488:ARG:HA	1:L:491:PHE:H	1.75	0.51
1:M:394:ILE:HD12	1:M:395:LYS:HE3	1.91	0.51
1:N:557:LYS:CB	1:N:1226:TYR:CE1	2.87	0.51
1:O:463:LEU:HD22	1:O:467:PHE:HD2	1.74	0.51
1:P:467:PHE:HD1	1:P:471:ILE:HD12	1.75	0.51
1:P:541:ALA:O	1:P:544:ASP:N	2.30	0.51
1:P:638:GLU:OE1	1:P:640:GLU:N	2.42	0.51
1:P:901:HIS:CG	1:P:902:ILE:H	2.29	0.51
1:B:183:LEU:HD11	1:B:256:PHE:HE2	1.75	0.51
1:D:187:ASN:HA	1:D:249:ASN:ND2	2.23	0.51
1:D:63:TRP:CZ3	1:D:126:SER:HB2	2.45	0.51
1:E:479:GLU:HB3	1:E:482:GLU:HB3	1.92	0.51
1:F:994:HIS:HE1	1:F:1023:ILE:HG23	1.75	0.51
1:F:551:GLU:HB3	1:F:605:LEU:O	2.11	0.51
1:G:253:TRP:CH2	1:G:262:ILE:HD11	2.46	0.51
1:G:467:PHE:HD1	1:G:471:ILE:HD12	1.76	0.51
1:H:64:THR:O	1:H:67:SER:OG	2.27	0.51
1:H:994:HIS:HE1	1:H:1023:ILE:HG23	1.75	0.51
1:I:386:LEU:HD21	1:I:390:TRP:HZ3	1.76	0.51
1:I:431:VAL:HB	1:I:432:LYS:HB2	1.93	0.51
1:I:458:LEU:CG	1:I:587:ARG:NH2	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:313:PRO:HA	1:J:338:TRP:HH2	1.63	0.51
1:J:479:GLU:HB3	1:J:482:GLU:HB3	1.92	0.51
1:K:187:ASN:HA	1:K:249:ASN:ND2	2.23	0.51
1:K:373:SER:HB3	1:K:433:LEU:CG	2.40	0.51
1:K:63:TRP:CZ3	1:K:126:SER:HB2	2.45	0.51
1:L:286:ASP:OD1	1:L:287:HIS:N	2.44	0.51
1:L:479:GLU:HB3	1:L:482:GLU:HB3	1.92	0.51
1:L:661:ASN:OD1	1:L:662:GLN:N	2.44	0.51
1:M:120:PHE:HZ	1:M:162:LEU:HB2	1.73	0.51
1:M:183:LEU:HD11	1:M:256:PHE:HE2	1.75	0.51
1:M:286:ASP:OD1	1:M:287:HIS:N	2.44	0.51
1:M:397:ASP:O	1:M:401:VAL:N	2.28	0.51
1:M:883:ILE:HA	1:M:898:VAL:HB	1.92	0.51
1:N:231:LEU:O	1:N:234:SER:OG	2.26	0.51
1:N:883:ILE:HA	1:N:898:VAL:HB	1.92	0.51
1:O:553:LEU:HB3	1:O:556:SER:HG	1.76	0.51
1:P:253:TRP:CH2	1:P:262:ILE:HD11	2.46	0.51
1:P:63:TRP:CZ3	1:P:126:SER:HB2	2.45	0.51
1:P:631:LEU:H	1:P:646:ARG:HB3	1.74	0.51
1:A:231:LEU:O	1:A:234:SER:OG	2.26	0.51
1:A:551:GLU:HB3	1:A:605:LEU:O	2.11	0.51
1:A:631:LEU:HD22	1:A:680:LEU:HD22	1.91	0.51
1:B:286:ASP:OD1	1:B:287:HIS:N	2.44	0.51
1:C:386:LEU:HD21	1:C:390:TRP:HZ3	1.76	0.51
1:D:162:LEU:O	1:D:165:CYS:N	2.43	0.51
1:D:431:VAL:HB	1:D:432:LYS:HB2	1.93	0.51
1:D:467:PHE:HD1	1:D:471:ILE:HD12	1.75	0.51
1:D:91:PRO:O	1:D:94:THR:OG1	2.21	0.51
1:D:916:LYS:HE2	1:E:1177:TYR:CE2	2.43	0.51
1:D:122:LYS:HG3	1:E:276:SER:OG	2.11	0.51
1:F:248:GLN:NE2	1:F:268:PHE:CZ	2.79	0.51
1:G:183:LEU:HD11	1:G:256:PHE:HE2	1.75	0.51
1:G:386:LEU:HD21	1:G:390:TRP:HZ3	1.76	0.51
1:H:554:ILE:C	1:H:556:SER:H	2.13	0.51
1:I:286:ASP:OD1	1:I:287:HIS:N	2.44	0.51
1:I:661:ASN:OD1	1:I:662:GLN:N	2.43	0.51
1:J:64:THR:O	1:J:67:SER:OG	2.27	0.51
1:K:162:LEU:O	1:K:165:CYS:N	2.43	0.51
1:K:554:ILE:C	1:K:556:SER:H	2.13	0.51
1:M:253:TRP:CH2	1:M:262:ILE:HD11	2.46	0.51
1:M:511:SER:C	1:M:513:SER:N	2.60	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:836:VAL:HG21	1:M:876:LEU:HD22	1.91	0.51
1:N:551:GLU:HB3	1:N:605:LEU:O	2.11	0.51
1:N:631:LEU:HD22	1:N:680:LEU:HD22	1.91	0.51
1:O:994:HIS:HE1	1:O:1023:ILE:HG23	1.75	0.51
1:O:554:ILE:C	1:O:556:SER:H	2.13	0.51
1:A:375:PHE:CD2	1:A:381:ILE:HG12	2.45	0.51
1:C:661:ASN:OD1	1:C:662:GLN:N	2.44	0.51
1:D:488:ARG:HA	1:D:491:PHE:H	1.75	0.51
1:E:307:CYS:HB3	1:E:311:ASP:OD2	2.11	0.51
1:E:431:VAL:HB	1:E:432:LYS:HB2	1.93	0.51
1:G:248:GLN:NE2	1:G:268:PHE:CZ	2.79	0.51
1:H:551:GLU:HB3	1:H:605:LEU:O	2.11	0.51
1:I:248:GLN:NE2	1:I:268:PHE:CZ	2.79	0.51
1:K:488:ARG:HA	1:K:491:PHE:H	1.75	0.51
1:K:91:PRO:O	1:K:94:THR:OG1	2.22	0.51
1:L:994:HIS:HE1	1:L:1023:ILE:HG23	1.75	0.51
1:N:375:PHE:CD2	1:N:381:ILE:HG12	2.45	0.51
1:O:467:PHE:HD1	1:O:471:ILE:HD12	1.75	0.51
1:O:551:GLU:HB3	1:O:605:LEU:O	2.11	0.51
1:P:183:LEU:HD11	1:P:256:PHE:HE2	1.75	0.51
1:P:386:LEU:HD21	1:P:390:TRP:HZ3	1.76	0.51
1:B:253:TRP:CH2	1:B:262:ILE:HD11	2.46	0.51
1:B:479:GLU:HB3	1:B:482:GLU:HB3	1.92	0.51
1:C:463:LEU:CD2	1:C:467:PHE:CD2	2.92	0.51
1:C:994:HIS:HE1	1:C:1023:ILE:HG23	1.75	0.51
1:E:346:CYS:O	1:E:350:THR:N	2.25	0.51
1:E:551:GLU:HB3	1:E:605:LEU:O	2.11	0.51
1:E:883:ILE:HA	1:E:898:VAL:HB	1.92	0.51
1:F:286:ASP:OD1	1:F:287:HIS:N	2.44	0.51
1:F:431:VAL:HB	1:F:432:LYS:HB2	1.93	0.51
1:F:518:LEU:HD22	1:F:643:TYR:CE1	2.22	0.51
1:F:661:ASN:OD1	1:F:662:GLN:N	2.44	0.51
1:F:901:HIS:CD2	1:F:902:ILE:H	2.29	0.51
1:G:492:LEU:HD11	1:G:561:LEU:CD2	2.40	0.51
1:H:705:PHE:HB3	1:H:706:ILE:HD12	1.93	0.51
1:I:479:GLU:HB3	1:I:482:GLU:HB3	1.92	0.51
1:I:616:LEU:HD23	1:I:620:PHE:HB2	1.91	0.51
1:I:901:HIS:CD2	1:I:902:ILE:H	2.29	0.51
1:J:307:CYS:HB3	1:J:311:ASP:OD2	2.11	0.51
1:J:386:LEU:HD21	1:J:390:TRP:HZ3	1.75	0.51
1:J:431:VAL:HB	1:J:432:LYS:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:539:VAL:O	1:J:543:LEU:HG	2.11	0.51
1:J:551:GLU:HB3	1:J:605:LEU:O	2.11	0.51
1:K:467:PHE:HD1	1:K:471:ILE:HD12	1.75	0.51
1:M:479:GLU:HB3	1:M:482:GLU:HB3	1.92	0.51
1:N:286:ASP:OD1	1:N:287:HIS:N	2.44	0.51
1:O:386:LEU:HD21	1:O:390:TRP:HZ3	1.75	0.51
1:P:187:ASN:HA	1:P:249:ASN:ND2	2.23	0.51
1:P:248:GLN:NE2	1:P:268:PHE:CZ	2.79	0.51
1:P:492:LEU:HD11	1:P:561:LEU:CD2	2.40	0.51
1:A:480:HIS:HB2	1:A:481:PRO:HD3	1.93	0.50
1:A:539:VAL:O	1:A:543:LEU:HG	2.12	0.50
1:A:63:TRP:CZ3	1:A:126:SER:HB2	2.45	0.50
1:B:307:CYS:HB3	1:B:311:ASP:OD2	2.11	0.50
1:B:301:LEU:CD2	1:B:313:PRO:CG	2.87	0.50
1:C:183:LEU:HD11	1:C:256:PHE:HE2	1.75	0.50
1:D:554:ILE:C	1:D:556:SER:H	2.13	0.50
1:E:248:GLN:NE2	1:E:268:PHE:CZ	2.79	0.50
1:E:386:LEU:HD21	1:E:390:TRP:HZ3	1.76	0.50
1:E:539:VAL:O	1:E:543:LEU:HG	2.12	0.50
1:F:539:VAL:O	1:F:543:LEU:HG	2.12	0.50
1:G:187:ASN:HA	1:G:249:ASN:ND2	2.23	0.50
1:H:286:ASP:OD1	1:H:287:HIS:N	2.44	0.50
1:H:488:ARG:HA	1:H:491:PHE:H	1.75	0.50
1:H:883:ILE:HA	1:H:898:VAL:HB	1.92	0.50
1:I:378:SER:H	1:I:422:ILE:HD13	1.62	0.50
1:I:539:VAL:O	1:I:543:LEU:HG	2.11	0.50
1:L:183:LEU:HD11	1:L:256:PHE:HE2	1.75	0.50
1:N:539:VAL:O	1:N:543:LEU:HG	2.11	0.50
1:O:479:GLU:HB3	1:O:482:GLU:HB3	1.92	0.50
1:O:488:ARG:HA	1:O:491:PHE:H	1.75	0.50
1:O:705:PHE:HB3	1:O:706:ILE:HD12	1.93	0.50
1:O:883:ILE:HA	1:O:898:VAL:HB	1.92	0.50
1:P:152:VAL:O	1:P:155:SER:OG	2.29	0.50
1:P:921:CYS:HA	1:P:930:HIS:O	2.11	0.50
1:P:994:HIS:HE1	1:P:1023:ILE:HG23	1.75	0.50
1:A:286:ASP:OD1	1:A:287:HIS:N	2.44	0.50
1:A:479:GLU:HB3	1:A:482:GLU:HB3	1.92	0.50
1:B:386:LEU:HD21	1:B:390:TRP:HZ3	1.75	0.50
1:D:479:GLU:HB3	1:D:482:GLU:HB3	1.92	0.50
1:D:458:LEU:CG	1:D:587:ARG:NH2	2.74	0.50
1:D:631:LEU:H	1:D:646:ARG:HB3	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:14:ASP:OD2	1:F:142:ARG:NH1	2.44	0.50
1:E:488:ARG:HA	1:E:491:PHE:H	1.75	0.50
1:F:554:ILE:C	1:F:556:SER:H	2.13	0.50
1:F:705:PHE:HB3	1:F:706:ILE:HD12	1.94	0.50
1:G:994:HIS:HE1	1:G:1023:ILE:HG23	1.75	0.50
1:G:317:LEU:C	1:G:318:THR:HG1	1.96	0.50
1:H:386:LEU:HD21	1:H:390:TRP:HZ3	1.75	0.50
1:H:467:PHE:HD1	1:H:471:ILE:HD12	1.75	0.50
1:H:539:VAL:O	1:H:543:LEU:HG	2.11	0.50
1:H:901:HIS:CG	1:H:902:ILE:H	2.29	0.50
1:I:488:ARG:HA	1:I:491:PHE:H	1.75	0.50
1:J:248:GLN:NE2	1:J:268:PHE:CZ	2.79	0.50
1:J:488:ARG:HA	1:J:491:PHE:H	1.75	0.50
1:J:538:LEU:HD12	1:J:571:GLU:HG2	1.94	0.50
1:K:307:CYS:HB3	1:K:311:ASP:OD2	2.11	0.50
1:K:631:LEU:H	1:K:646:ARG:HB3	1.74	0.50
1:K:921:CYS:HA	1:K:930:HIS:O	2.11	0.50
1:L:253:TRP:CH2	1:L:262:ILE:HD11	2.46	0.50
1:M:301:LEU:CD2	1:M:313:PRO:CG	2.87	0.50
1:M:307:CYS:HB3	1:M:311:ASP:OD2	2.11	0.50
1:N:479:GLU:HB3	1:N:482:GLU:HB3	1.92	0.50
1:N:63:TRP:CZ3	1:N:126:SER:HB2	2.45	0.50
1:O:1058:ILE:HG13	1:O:1059:ASP:N	2.27	0.50
1:O:130:PRO:HA	1:O:290:MET:HE3	1.92	0.50
1:O:286:ASP:OD1	1:O:287:HIS:N	2.44	0.50
1:P:554:ILE:C	1:P:556:SER:H	2.13	0.50
1:A:99:PRO:HB2	1:A:104:ARG:HG3	1.93	0.50
1:C:463:LEU:HD22	1:C:467:PHE:HD2	1.74	0.50
1:D:253:TRP:CH2	1:D:262:ILE:HD11	2.46	0.50
1:D:307:CYS:HB3	1:D:311:ASP:OD2	2.11	0.50
1:E:313:PRO:HA	1:E:338:TRP:HH2	1.63	0.50
1:E:554:ILE:C	1:E:556:SER:H	2.13	0.50
1:E:538:LEU:HD12	1:E:571:GLU:HG2	1.94	0.50
1:F:488:ARG:HA	1:F:491:PHE:H	1.75	0.50
1:G:554:ILE:C	1:G:556:SER:H	2.13	0.50
1:G:921:CYS:HA	1:G:930:HIS:O	2.11	0.50
1:H:1058:ILE:HG13	1:H:1059:ASP:N	2.27	0.50
1:H:373:SER:HB3	1:H:433:LEU:CG	2.40	0.50
1:H:479:GLU:HB3	1:H:482:GLU:HB3	1.92	0.50
1:H:538:LEU:HD12	1:H:571:GLU:HG2	1.94	0.50
1:I:705:PHE:HB3	1:I:706:ILE:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:883:ILE:HA	1:J:898:VAL:HB	1.92	0.50
1:K:479:GLU:HB3	1:K:482:GLU:HB3	1.92	0.50
1:K:458:LEU:CG	1:K:587:ARG:NH2	2.74	0.50
1:N:480:HIS:HB2	1:N:481:PRO:HD3	1.93	0.50
1:O:492:LEU:HD11	1:O:561:LEU:CD2	2.40	0.50
1:O:539:VAL:O	1:O:543:LEU:HG	2.12	0.50
1:O:538:LEU:HD12	1:O:571:GLU:HG2	1.94	0.50
1:O:901:HIS:CG	1:O:902:ILE:H	2.29	0.50
1:A:222:HIS:CG	1:H:198:LYS:NZ	2.79	0.50
1:A:553:LEU:HB3	1:A:556:SER:HG	1.76	0.50
1:A:916:LYS:CE	1:B:1177:TYR:CE2	2.93	0.50
1:B:551:GLU:HB3	1:B:605:LEU:O	2.11	0.50
1:C:551:GLU:HB3	1:C:605:LEU:O	2.11	0.50
1:D:921:CYS:HA	1:D:930:HIS:O	2.11	0.50
1:G:286:ASP:OD1	1:G:287:HIS:N	2.44	0.50
1:G:539:VAL:O	1:G:543:LEU:HG	2.12	0.50
1:H:492:LEU:HD11	1:H:561:LEU:CD2	2.40	0.50
1:I:518:LEU:HD22	1:I:643:TYR:CE1	2.22	0.50
1:K:253:TRP:CH2	1:K:262:ILE:HD11	2.46	0.50
1:K:492:LEU:HD11	1:K:561:LEU:CD2	2.40	0.50
1:M:386:LEU:HD21	1:M:390:TRP:HZ3	1.75	0.50
1:M:551:GLU:HB3	1:M:605:LEU:O	2.11	0.50
1:N:313:PRO:HA	1:N:338:TRP:HH2	1.63	0.50
1:N:553:LEU:HB3	1:N:556:SER:HG	1.75	0.50
1:N:99:PRO:HB2	1:N:104:ARG:HG3	1.93	0.50
1:O:307:CYS:HB3	1:O:311:ASP:OD2	2.11	0.50
1:O:373:SER:HB3	1:O:433:LEU:CG	2.40	0.50
1:P:1240:LEU:HD12	1:P:1250:SER:HB2	1.93	0.50
1:P:130:PRO:HA	1:P:290:MET:HE1	1.91	0.50
1:P:317:LEU:C	1:P:318:THR:HG1	1.96	0.50
1:A:313:PRO:HA	1:A:338:TRP:HH2	1.63	0.50
1:A:901:HIS:CD2	1:A:902:ILE:H	2.29	0.50
1:B:467:PHE:HD1	1:B:471:ILE:HD12	1.75	0.50
1:B:638:GLU:OE1	1:B:640:GLU:N	2.42	0.50
1:C:478:ILE:HG22	1:C:479:GLU:H	1.77	0.50
1:C:883:ILE:HA	1:C:898:VAL:HB	1.92	0.50
1:D:1058:ILE:HG13	1:D:1059:ASP:N	2.27	0.50
1:D:478:ILE:HG22	1:D:479:GLU:H	1.77	0.50
1:D:492:LEU:HD11	1:D:561:LEU:CD2	2.40	0.50
1:E:705:PHE:HB3	1:E:706:ILE:HD12	1.93	0.50
1:E:901:HIS:CD2	1:E:902:ILE:H	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:901:HIS:CG	1:E:902:ILE:H	2.29	0.50
1:F:1240:LEU:HD12	1:F:1250:SER:HB2	1.93	0.50
1:F:479:GLU:HB3	1:F:482:GLU:HB3	1.92	0.50
1:F:538:LEU:HD12	1:F:571:GLU:HG2	1.94	0.50
1:G:130:PRO:HA	1:G:290:MET:HE1	1.91	0.50
1:G:538:LEU:HG	1:G:571:GLU:CG	2.42	0.50
1:H:557:LYS:CB	1:H:1226:TYR:CE1	2.87	0.50
1:H:307:CYS:HB3	1:H:311:ASP:OD2	2.11	0.50
1:H:478:ILE:HG22	1:H:479:GLU:H	1.77	0.50
1:H:901:HIS:CD2	1:H:902:ILE:H	2.29	0.50
1:I:554:ILE:C	1:I:556:SER:H	2.13	0.50
1:J:231:LEU:O	1:J:234:SER:OG	2.26	0.50
1:J:492:LEU:HD11	1:J:561:LEU:CD2	2.40	0.50
1:J:705:PHE:HB3	1:J:706:ILE:HD12	1.93	0.50
1:K:478:ILE:HG22	1:K:479:GLU:H	1.77	0.50
1:L:1058:ILE:HG13	1:L:1059:ASP:N	2.27	0.50
1:L:478:ILE:HG22	1:L:479:GLU:H	1.77	0.50
1:M:467:PHE:HD1	1:M:471:ILE:HD12	1.75	0.50
1:M:91:PRO:O	1:M:94:THR:OG1	2.22	0.50
1:N:901:HIS:CD2	1:N:902:ILE:H	2.29	0.50
1:O:478:ILE:HG22	1:O:479:GLU:H	1.77	0.50
1:P:286:ASP:OD1	1:P:287:HIS:N	2.44	0.50
1:P:539:VAL:O	1:P:543:LEU:HG	2.12	0.50
1:P:551:GLU:HB3	1:P:605:LEU:O	2.11	0.50
1:P:883:ILE:HA	1:P:898:VAL:HB	1.92	0.50
1:A:431:VAL:HB	1:A:432:LYS:HB2	1.93	0.50
1:A:488:ARG:HA	1:A:491:PHE:H	1.75	0.50
1:A:538:LEU:HD12	1:A:571:GLU:HG2	1.94	0.50
1:B:91:PRO:O	1:B:94:THR:OG1	2.22	0.50
1:B:99:PRO:HB2	1:B:104:ARG:HG3	1.93	0.50
1:C:1058:ILE:HG13	1:C:1059:ASP:N	2.27	0.50
1:C:253:TRP:CH2	1:C:262:ILE:HD11	2.46	0.50
1:D:275:LEU:HD23	1:D:280:THR:HG21	1.93	0.50
1:E:114:TYR:O	1:E:117:ASN:N	2.36	0.50
1:E:538:LEU:HG	1:E:571:GLU:CG	2.42	0.50
1:E:99:PRO:HB2	1:E:104:ARG:HG3	1.93	0.50
1:F:511:SER:C	1:F:513:SER:N	2.60	0.50
1:G:1240:LEU:HD12	1:G:1250:SER:HB2	1.93	0.50
1:G:480:HIS:HB2	1:G:481:PRO:HD3	1.92	0.50
1:G:551:GLU:HB3	1:G:605:LEU:O	2.11	0.50
1:G:883:ILE:HA	1:G:898:VAL:HB	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:248:GLN:NE2	1:H:268:PHE:CZ	2.79	0.50
1:I:478:ILE:HG22	1:I:479:GLU:H	1.77	0.50
1:I:638:GLU:OE1	1:I:640:GLU:N	2.42	0.50
1:J:114:TYR:O	1:J:117:ASN:N	2.36	0.50
1:J:253:TRP:CH2	1:J:262:ILE:HD11	2.46	0.50
1:J:901:HIS:CD2	1:J:902:ILE:H	2.29	0.50
1:J:901:HIS:CG	1:J:902:ILE:H	2.29	0.50
1:K:1058:ILE:HG13	1:K:1059:ASP:N	2.27	0.50
1:K:988:ASP:OD1	1:K:989:SER:N	2.43	0.50
1:L:551:GLU:HB3	1:L:605:LEU:O	2.11	0.50
1:M:480:HIS:HB2	1:M:481:PRO:HD3	1.93	0.50
1:M:99:PRO:HB2	1:M:104:ARG:HG3	1.93	0.50
1:N:431:VAL:HB	1:N:432:LYS:HB2	1.93	0.50
1:N:538:LEU:HD12	1:N:571:GLU:HG2	1.94	0.50
1:N:921:CYS:HA	1:N:930:HIS:O	2.11	0.50
1:O:248:GLN:NE2	1:O:268:PHE:CZ	2.79	0.50
1:O:901:HIS:CD2	1:O:902:ILE:H	2.29	0.50
1:P:538:LEU:HG	1:P:571:GLU:CG	2.42	0.50
1:P:863:THR:HA	1:P:907:ILE:HG13	1.93	0.50
1:A:458:LEU:HG	1:A:587:ARG:HH21	1.77	0.50
1:C:539:VAL:O	1:C:543:LEU:HG	2.12	0.50
1:C:863:THR:HA	1:C:907:ILE:HG13	1.94	0.50
1:C:604:ASN:ND2	1:C:929:VAL:H	2.04	0.50
1:D:988:ASP:OD1	1:D:989:SER:N	2.43	0.50
1:E:492:LEU:HD11	1:E:561:LEU:CD2	2.40	0.50
1:G:863:THR:HA	1:G:907:ILE:HG13	1.94	0.50
1:H:921:CYS:HA	1:H:930:HIS:O	2.11	0.50
1:I:1240:LEU:HD12	1:I:1250:SER:HB2	1.93	0.50
1:J:538:LEU:HG	1:J:571:GLU:CG	2.42	0.50
1:J:554:ILE:C	1:J:556:SER:H	2.13	0.50
1:J:99:PRO:HB2	1:J:104:ARG:HG3	1.93	0.50
1:K:275:LEU:HD23	1:K:280:THR:HG21	1.93	0.50
1:K:539:VAL:O	1:K:543:LEU:HG	2.11	0.50
1:M:1240:LEU:HD12	1:M:1250:SER:HB2	1.93	0.50
1:M:638:GLU:OE1	1:M:640:GLU:N	2.42	0.50
1:N:458:LEU:HG	1:N:587:ARG:HH21	1.77	0.50
1:O:382:PRO:HA	1:O:419:THR:CG2	2.36	0.50
1:O:538:LEU:HD21	1:O:573:ILE:HD11	1.94	0.50
1:O:548:LYS:HZ2	1:O:601:GLN:H	1.56	0.50
1:P:705:PHE:HB3	1:P:706:ILE:HD12	1.93	0.50
1:A:492:LEU:HD11	1:A:561:LEU:CD2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:921:CYS:HA	1:A:930:HIS:O	2.11	0.50
1:B:1058:ILE:HG13	1:B:1059:ASP:N	2.27	0.50
1:B:1240:LEU:HD12	1:B:1250:SER:HB2	1.93	0.50
1:B:248:GLN:NE2	1:B:268:PHE:CZ	2.79	0.50
1:B:480:HIS:HB2	1:B:481:PRO:HD3	1.93	0.50
1:B:518:LEU:N	1:B:518:LEU:HD12	2.20	0.50
1:B:539:VAL:O	1:B:543:LEU:HG	2.12	0.50
1:B:921:CYS:HA	1:B:930:HIS:O	2.11	0.50
1:C:901:HIS:CG	1:C:902:ILE:H	2.29	0.50
1:D:20:GLU:O	1:D:23:PHE:N	2.45	0.50
1:D:480:HIS:HB2	1:D:481:PRO:HD3	1.92	0.50
1:D:705:PHE:HB3	1:D:706:ILE:HD12	1.93	0.50
1:E:253:TRP:CH2	1:E:262:ILE:HD11	2.46	0.50
1:E:507:ALA:N	1:E:608:ASN:HB2	2.27	0.50
1:E:921:CYS:HA	1:E:930:HIS:O	2.11	0.50
1:F:863:THR:HA	1:F:907:ILE:HG13	1.93	0.50
1:G:705:PHE:HB3	1:G:706:ILE:HD12	1.93	0.50
1:G:901:HIS:CD2	1:G:902:ILE:H	2.29	0.50
1:H:275:LEU:HD23	1:H:280:THR:HG21	1.94	0.50
1:H:538:LEU:HD21	1:H:573:ILE:HD11	1.94	0.50
1:I:307:CYS:HB3	1:I:311:ASP:OD2	2.11	0.50
1:I:99:PRO:HB2	1:I:104:ARG:HG3	1.93	0.50
1:J:1058:ILE:HG13	1:J:1059:ASP:N	2.27	0.50
1:J:20:GLU:O	1:J:23:PHE:N	2.45	0.50
1:J:507:ALA:N	1:J:608:ASN:HB2	2.27	0.50
1:J:921:CYS:HA	1:J:930:HIS:O	2.11	0.50
1:K:480:HIS:HB2	1:K:481:PRO:HD3	1.92	0.50
1:K:705:PHE:HB3	1:K:706:ILE:HD12	1.94	0.50
1:L:480:HIS:HB2	1:L:481:PRO:HD3	1.93	0.50
1:L:64:THR:O	1:L:67:SER:OG	2.27	0.50
1:M:1058:ILE:HG13	1:M:1059:ASP:N	2.27	0.50
1:M:248:GLN:NE2	1:M:268:PHE:CZ	2.79	0.50
1:M:458:LEU:HG	1:M:587:ARG:HH21	1.77	0.50
1:M:539:VAL:O	1:M:543:LEU:HG	2.12	0.50
1:N:488:ARG:HA	1:N:491:PHE:H	1.75	0.50
1:N:492:LEU:HD11	1:N:561:LEU:CD2	2.40	0.50
1:O:557:LYS:CB	1:O:1226:TYR:CE1	2.87	0.50
1:O:275:LEU:HD23	1:O:280:THR:HG21	1.94	0.50
1:O:64:THR:O	1:O:67:SER:OG	2.27	0.50
1:O:921:CYS:HA	1:O:930:HIS:O	2.11	0.50
1:P:480:HIS:HB2	1:P:481:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:901:HIS:CD2	1:P:902:ILE:H	2.29	0.50
1:A:1058:ILE:HG13	1:A:1059:ASP:N	2.27	0.50
1:A:275:LEU:HD23	1:A:280:THR:HG21	1.93	0.50
1:B:458:LEU:HG	1:B:587:ARG:HH21	1.77	0.50
1:C:20:GLU:O	1:C:23:PHE:N	2.45	0.50
1:C:480:HIS:HB2	1:C:481:PRO:HD3	1.93	0.50
1:D:463:LEU:CD2	1:D:467:PHE:CD2	2.92	0.50
1:D:539:VAL:O	1:D:543:LEU:HG	2.11	0.50
1:D:541:ALA:O	1:D:544:ASP:N	2.30	0.50
1:E:231:LEU:O	1:E:234:SER:OG	2.26	0.50
1:E:20:GLU:O	1:E:23:PHE:N	2.45	0.50
1:E:541:ALA:O	1:E:544:ASP:N	2.30	0.50
1:F:651:SER:O	1:F:654:ILE:HG23	2.12	0.50
1:F:99:PRO:HB2	1:F:104:ARG:HG3	1.93	0.50
1:G:1058:ILE:HG13	1:G:1059:ASP:N	2.27	0.50
1:H:20:GLU:O	1:H:23:PHE:N	2.45	0.50
1:H:382:PRO:HA	1:H:419:THR:CG2	2.36	0.50
1:H:548:LYS:HZ2	1:H:601:GLN:H	1.56	0.50
1:I:538:LEU:HD12	1:I:571:GLU:HG2	1.94	0.50
1:I:863:THR:HA	1:I:907:ILE:HG13	1.93	0.50
1:J:1240:LEU:HD12	1:J:1250:SER:HB2	1.93	0.50
1:J:541:ALA:O	1:J:544:ASP:N	2.30	0.50
1:K:20:GLU:O	1:K:23:PHE:N	2.45	0.50
1:K:563:ARG:HH11	1:K:593:HIS:HA	1.77	0.50
1:L:431:VAL:HB	1:L:432:LYS:HB2	1.93	0.50
1:L:863:THR:HA	1:L:907:ILE:HG13	1.93	0.50
1:L:883:ILE:HA	1:L:898:VAL:HB	1.92	0.50
1:M:518:LEU:N	1:M:518:LEU:HD12	2.20	0.50
1:M:553:LEU:HB3	1:M:556:SER:HG	1.76	0.50
1:M:705:PHE:HB3	1:M:706:ILE:HD12	1.93	0.50
1:M:901:HIS:CD2	1:M:902:ILE:H	2.29	0.50
1:M:921:CYS:HA	1:M:930:HIS:O	2.11	0.50
1:N:1058:ILE:HG13	1:N:1059:ASP:N	2.27	0.50
1:N:152:VAL:O	1:N:155:SER:OG	2.29	0.50
1:O:20:GLU:O	1:O:23:PHE:N	2.45	0.50
1:A:563:ARG:HH11	1:A:593:HIS:HA	1.77	0.49
1:B:538:LEU:HD12	1:B:571:GLU:HG2	1.94	0.49
1:B:901:HIS:CD2	1:B:902:ILE:H	2.29	0.49
1:C:248:GLN:NE2	1:C:268:PHE:CZ	2.79	0.49
1:C:198:LYS:NZ	1:D:222:HIS:CG	2.80	0.49
1:D:507:ALA:N	1:D:608:ASN:HB2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:563:ARG:HH11	1:D:593:HIS:HA	1.78	0.49
1:E:1058:ILE:HG13	1:E:1059:ASP:N	2.27	0.49
1:E:1240:LEU:HD12	1:E:1250:SER:HB2	1.93	0.49
1:E:478:ILE:HG22	1:E:479:GLU:H	1.77	0.49
1:E:518:LEU:HD22	1:E:643:TYR:CE1	2.22	0.49
1:E:563:ARG:HH11	1:E:593:HIS:HA	1.77	0.49
1:F:307:CYS:HB3	1:F:311:ASP:OD2	2.11	0.49
1:F:478:ILE:HG22	1:F:479:GLU:H	1.77	0.49
1:F:538:LEU:HD21	1:F:573:ILE:HD11	1.94	0.49
1:I:20:GLU:O	1:I:23:PHE:N	2.45	0.49
1:I:538:LEU:HD21	1:I:573:ILE:HD11	1.94	0.49
1:I:651:SER:O	1:I:654:ILE:HG23	2.12	0.49
1:J:651:SER:O	1:J:654:ILE:HG23	2.12	0.49
1:K:248:GLN:NE2	1:K:268:PHE:CZ	2.79	0.49
1:K:463:LEU:CD2	1:K:467:PHE:CD2	2.92	0.49
1:K:538:LEU:HD12	1:K:571:GLU:HG2	1.93	0.49
1:N:275:LEU:HD23	1:N:280:THR:HG21	1.94	0.49
1:N:301:LEU:CD2	1:N:313:PRO:CG	2.87	0.49
1:N:563:ARG:HH11	1:N:593:HIS:HA	1.77	0.49
1:O:130:PRO:HA	1:O:290:MET:HE1	1.93	0.49
1:O:431:VAL:HB	1:O:432:LYS:HB2	1.93	0.49
1:O:507:ALA:N	1:O:608:ASN:HB2	2.27	0.49
1:P:1058:ILE:HG13	1:P:1059:ASP:N	2.27	0.49
1:P:275:LEU:HD23	1:P:280:THR:HG21	1.93	0.49
1:P:538:LEU:HG	1:P:571:GLU:CD	2.33	0.49
1:A:511:SER:C	1:A:513:SER:N	2.60	0.49
1:B:553:LEU:HB3	1:B:556:SER:HG	1.75	0.49
1:B:705:PHE:HB3	1:B:706:ILE:HD12	1.94	0.49
1:C:1240:LEU:HD12	1:C:1250:SER:HB2	1.93	0.49
1:C:518:LEU:HD12	1:C:518:LEU:N	2.20	0.49
1:D:248:GLN:HE22	1:D:268:PHE:HZ	1.61	0.49
1:D:248:GLN:NE2	1:D:268:PHE:CZ	2.79	0.49
1:D:99:PRO:HB2	1:D:104:ARG:HG3	1.93	0.49
1:E:651:SER:O	1:E:654:ILE:HG23	2.12	0.49
1:E:863:THR:HA	1:E:907:ILE:HG13	1.93	0.49
1:F:248:GLN:HE22	1:F:268:PHE:HZ	1.60	0.49
1:G:162:LEU:HD23	1:G:180:TRP:CH2	2.48	0.49
1:G:275:LEU:HD23	1:G:280:THR:HG21	1.94	0.49
1:G:538:LEU:HG	1:G:571:GLU:CD	2.33	0.49
1:H:507:ALA:N	1:H:608:ASN:HB2	2.27	0.49
1:I:563:ARG:HH11	1:I:593:HIS:HA	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:921:CYS:HA	1:I:930:HIS:O	2.11	0.49
1:J:563:ARG:HH11	1:J:593:HIS:HA	1.77	0.49
1:J:863:THR:HA	1:J:907:ILE:HG13	1.94	0.49
1:K:99:PRO:HB2	1:K:104:ARG:HG3	1.93	0.49
1:K:248:GLN:HE22	1:K:268:PHE:HZ	1.61	0.49
1:K:507:ALA:N	1:K:608:ASN:HB2	2.27	0.49
1:L:463:LEU:HD22	1:L:467:PHE:HD2	1.74	0.49
1:L:539:VAL:O	1:L:543:LEU:HG	2.12	0.49
1:M:431:VAL:HB	1:M:432:LYS:HB2	1.93	0.49
1:M:538:LEU:HD12	1:M:571:GLU:HG2	1.94	0.49
1:N:20:GLU:O	1:N:23:PHE:N	2.45	0.49
1:N:705:PHE:HB3	1:N:706:ILE:HD12	1.93	0.49
1:O:515:LEU:HD12	1:O:517:THR:H	1.78	0.49
1:P:557:LYS:CB	1:P:1226:TYR:CE1	2.87	0.49
1:A:1240:LEU:HD12	1:A:1250:SER:HB2	1.93	0.49
1:A:152:VAL:O	1:A:155:SER:OG	2.29	0.49
1:A:162:LEU:HD23	1:A:180:TRP:CH2	2.48	0.49
1:A:248:GLN:NE2	1:A:268:PHE:CZ	2.79	0.49
1:A:301:LEU:CD2	1:A:313:PRO:CG	2.87	0.49
1:A:347:ASP:OD1	1:A:348:LYS:N	2.37	0.49
1:A:901:HIS:CG	1:A:902:ILE:H	2.29	0.49
1:B:162:LEU:HD23	1:B:180:TRP:CH2	2.48	0.49
1:B:556:SER:O	1:B:557:LYS:HB2	2.13	0.49
1:C:1252:ALA:HB1	1:C:1256:CYS:HB2	1.95	0.49
1:C:431:VAL:HB	1:C:432:LYS:HB2	1.93	0.49
1:C:504:ASP:CG	1:C:509:ASN:O	2.51	0.49
1:C:563:ARG:HH11	1:C:593:HIS:HA	1.77	0.49
1:C:64:THR:O	1:C:67:SER:OG	2.27	0.49
1:D:538:LEU:HD12	1:D:571:GLU:HG2	1.94	0.49
1:E:248:GLN:HE22	1:E:268:PHE:HZ	1.60	0.49
1:E:538:LEU:HG	1:E:571:GLU:CD	2.33	0.49
1:F:162:LEU:HD23	1:F:180:TRP:CH2	2.48	0.49
1:F:20:GLU:O	1:F:23:PHE:N	2.45	0.49
1:F:541:ALA:O	1:F:544:ASP:N	2.30	0.49
1:F:563:ARG:HH11	1:F:593:HIS:HA	1.77	0.49
1:G:557:LYS:CB	1:G:1226:TYR:CE1	2.87	0.49
1:G:488:ARG:HA	1:G:491:PHE:H	1.75	0.49
1:G:538:LEU:HD12	1:G:571:GLU:HG2	1.94	0.49
1:G:660:PHE:HZ	1:G:731:GLN:HG3	1.78	0.49
1:J:478:ILE:HG22	1:J:479:GLU:H	1.77	0.49
1:K:293:THR:O	1:K:296:GLU:N	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1252:ALA:HB1	1:L:1256:CYS:HB2	1.94	0.49
1:L:20:GLU:O	1:L:23:PHE:N	2.45	0.49
1:L:275:LEU:HD23	1:L:280:THR:HG21	1.93	0.49
1:L:293:THR:O	1:L:296:GLU:N	2.40	0.49
1:L:563:ARG:HH11	1:L:593:HIS:HA	1.78	0.49
1:L:651:SER:O	1:L:654:ILE:HG23	2.12	0.49
1:L:705:PHE:HB3	1:L:706:ILE:HD12	1.93	0.49
1:L:901:HIS:CD2	1:L:902:ILE:H	2.29	0.49
1:L:901:HIS:CG	1:L:902:ILE:H	2.29	0.49
1:L:604:ASN:ND2	1:L:929:VAL:H	2.04	0.49
1:M:162:LEU:HD23	1:M:180:TRP:CH2	2.48	0.49
1:M:556:SER:O	1:M:557:LYS:HB2	2.13	0.49
1:N:511:SER:C	1:N:513:SER:N	2.60	0.49
1:N:556:SER:O	1:N:557:LYS:HB2	2.13	0.49
1:O:162:LEU:HD23	1:O:180:TRP:CH2	2.48	0.49
1:O:99:PRO:HB2	1:O:104:ARG:HG3	1.93	0.49
1:P:162:LEU:HD23	1:P:180:TRP:CH2	2.48	0.49
1:A:20:GLU:O	1:A:23:PHE:N	2.45	0.49
1:A:556:SER:O	1:A:557:LYS:HB2	2.13	0.49
1:A:705:PHE:HB3	1:A:706:ILE:HD12	1.93	0.49
1:B:431:VAL:HB	1:B:432:LYS:HB2	1.93	0.49
1:C:248:GLN:HE22	1:C:268:PHE:HZ	1.60	0.49
1:C:275:LEU:HD23	1:C:280:THR:HG21	1.94	0.49
1:C:293:THR:O	1:C:296:GLU:N	2.40	0.49
1:D:1240:LEU:HD12	1:D:1250:SER:HB2	1.93	0.49
1:D:221:ILE:HG13	1:D:222:HIS:N	2.28	0.49
1:D:882:LEU:HB2	1:D:901:HIS:CE1	2.48	0.49
1:F:221:ILE:HG13	1:F:222:HIS:N	2.28	0.49
1:F:921:CYS:HA	1:F:930:HIS:O	2.11	0.49
1:G:450:PRO:O	1:G:452:THR:N	2.46	0.49
1:G:458:LEU:CG	1:G:587:ARG:NH2	2.74	0.49
1:H:162:LEU:HD23	1:H:180:TRP:CH2	2.48	0.49
1:H:431:VAL:HB	1:H:432:LYS:HB2	1.93	0.49
1:I:221:ILE:HG13	1:I:222:HIS:N	2.28	0.49
1:J:187:ASN:HA	1:J:249:ASN:ND2	2.24	0.49
1:J:221:ILE:HG13	1:J:222:HIS:N	2.28	0.49
1:J:248:GLN:HE22	1:J:268:PHE:HZ	1.61	0.49
1:J:538:LEU:HG	1:J:571:GLU:CD	2.33	0.49
1:K:221:ILE:HG13	1:K:222:HIS:N	2.28	0.49
1:K:882:LEU:HB2	1:K:901:HIS:CE1	2.48	0.49
1:L:1240:LEU:HD12	1:L:1250:SER:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:248:GLN:HE22	1:L:268:PHE:HZ	1.61	0.49
1:L:504:ASP:CG	1:L:509:ASN:O	2.51	0.49
1:M:450:PRO:O	1:M:452:THR:N	2.46	0.49
1:N:162:LEU:HD23	1:N:180:TRP:CH2	2.48	0.49
1:N:901:HIS:CG	1:N:902:ILE:H	2.29	0.49
1:O:556:SER:O	1:O:557:LYS:HB2	2.13	0.49
1:P:488:ARG:HA	1:P:491:PHE:H	1.75	0.49
1:P:538:LEU:HD12	1:P:571:GLU:HG2	1.94	0.49
1:P:660:PHE:HZ	1:P:731:GLN:HG3	1.78	0.49
1:A:651:SER:O	1:A:654:ILE:HG23	2.12	0.49
1:B:450:PRO:O	1:B:452:THR:N	2.46	0.49
1:B:563:ARG:HH11	1:B:593:HIS:HA	1.77	0.49
1:C:538:LEU:HD12	1:C:571:GLU:HG2	1.94	0.49
1:C:901:HIS:CD2	1:C:902:ILE:H	2.29	0.49
1:C:946:ARG:HG3	1:C:947:GLU:N	2.28	0.49
1:D:293:THR:O	1:D:296:GLU:N	2.40	0.49
1:D:504:ASP:CG	1:D:509:ASN:O	2.51	0.49
1:D:515:LEU:HD12	1:D:517:THR:H	1.78	0.49
1:D:901:HIS:CD2	1:D:902:ILE:H	2.29	0.49
1:E:187:ASN:HA	1:E:249:ASN:ND2	2.23	0.49
1:G:248:GLN:HE22	1:G:268:PHE:HZ	1.61	0.49
1:G:507:ALA:N	1:G:608:ASN:HB2	2.27	0.49
1:G:517:THR:HA	1:G:520:GLN:CG	2.43	0.49
1:G:882:LEU:HB2	1:G:901:HIS:CE1	2.48	0.49
1:H:99:PRO:HB2	1:H:104:ARG:HG3	1.93	0.49
1:H:511:SER:HB3	1:H:645:LEU:HD21	1.94	0.49
1:H:556:SER:O	1:H:557:LYS:HB2	2.13	0.49
1:I:162:LEU:HD23	1:I:180:TRP:CH2	2.48	0.49
1:I:248:GLN:HE22	1:I:268:PHE:HZ	1.61	0.49
1:I:511:SER:C	1:I:513:SER:N	2.60	0.49
1:J:480:HIS:HB2	1:J:481:PRO:HD3	1.93	0.49
1:K:1240:LEU:HD12	1:K:1250:SER:HB2	1.93	0.49
1:K:504:ASP:CG	1:K:509:ASN:O	2.51	0.49
1:K:541:ALA:O	1:K:544:ASP:N	2.30	0.49
1:K:901:HIS:CD2	1:K:902:ILE:H	2.30	0.49
1:L:538:LEU:HD12	1:L:571:GLU:HG2	1.94	0.49
1:M:988:ASP:OD1	1:M:989:SER:N	2.43	0.49
1:N:1240:LEU:HD12	1:N:1250:SER:HB2	1.93	0.49
1:N:507:ALA:N	1:N:608:ASN:HB2	2.27	0.49
1:N:651:SER:O	1:N:654:ILE:HG23	2.12	0.49
1:O:187:ASN:HA	1:O:249:ASN:ND2	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:946:ARG:HG3	1:O:947:GLU:N	2.28	0.49
1:P:221:ILE:HG13	1:P:222:HIS:N	2.28	0.49
1:P:248:GLN:HE22	1:P:268:PHE:HZ	1.61	0.49
1:P:450:PRO:O	1:P:452:THR:N	2.46	0.49
1:P:507:ALA:N	1:P:608:ASN:HB2	2.27	0.49
1:P:517:THR:HA	1:P:520:GLN:CG	2.43	0.49
1:P:563:ARG:HH11	1:P:593:HIS:HA	1.77	0.49
1:P:458:LEU:CG	1:P:587:ARG:NH2	2.74	0.49
1:P:882:LEU:HB2	1:P:901:HIS:CE1	2.48	0.49
1:A:450:PRO:O	1:A:452:THR:N	2.46	0.49
1:A:517:THR:HA	1:A:520:GLN:CG	2.43	0.49
1:A:507:ALA:N	1:A:608:ASN:HB2	2.27	0.49
1:B:478:ILE:HG22	1:B:479:GLU:H	1.77	0.49
1:B:507:ALA:N	1:B:608:ASN:HB2	2.27	0.49
1:B:517:THR:HA	1:B:520:GLN:CG	2.43	0.49
1:B:64:THR:O	1:B:67:SER:OG	2.27	0.49
1:B:660:PHE:HZ	1:B:731:GLN:HG3	1.78	0.49
1:B:863:THR:HA	1:B:907:ILE:HG13	1.93	0.49
1:B:988:ASP:OD1	1:B:989:SER:N	2.43	0.49
1:C:507:ALA:N	1:C:608:ASN:HB2	2.27	0.49
1:C:517:THR:HA	1:C:520:GLN:CG	2.43	0.49
1:E:1252:ALA:HB1	1:E:1256:CYS:HB2	1.94	0.49
1:E:221:ILE:HG13	1:E:222:HIS:N	2.28	0.49
1:E:480:HIS:HB2	1:E:481:PRO:HD3	1.93	0.49
1:F:175:ASP:O	1:F:177:LYS:HG2	2.13	0.49
1:F:337:THR:C	1:F:339:ASP:H	2.16	0.49
1:F:882:LEU:HB2	1:F:901:HIS:CE1	2.48	0.49
1:G:99:PRO:HB2	1:G:104:ARG:HG3	1.93	0.49
1:G:221:ILE:HG13	1:G:222:HIS:N	2.28	0.49
1:G:451:LYS:CD	1:G:486:LEU:HD21	2.33	0.49
1:H:504:ASP:CG	1:H:509:ASN:O	2.51	0.49
1:H:515:LEU:HD12	1:H:517:THR:H	1.78	0.49
1:H:651:SER:O	1:H:654:ILE:HG23	2.12	0.49
1:I:1058:ILE:HG13	1:I:1059:ASP:N	2.27	0.49
1:I:538:LEU:HG	1:I:571:GLU:CG	2.42	0.49
1:K:515:LEU:HD12	1:K:517:THR:H	1.78	0.49
1:K:604:ASN:ND2	1:K:929:VAL:H	2.04	0.49
1:L:162:LEU:HD23	1:L:180:TRP:CH2	2.48	0.49
1:M:398:VAL:HG23	1:M:399:MET:N	2.28	0.49
1:M:478:ILE:HG22	1:M:479:GLU:H	1.77	0.49
1:M:563:ARG:HH11	1:M:593:HIS:HA	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:507:ALA:N	1:M:608:ASN:HB2	2.27	0.49
1:M:660:PHE:HZ	1:M:731:GLN:HG3	1.78	0.49
1:M:863:THR:HA	1:M:907:ILE:HG13	1.93	0.49
1:N:347:ASP:OD1	1:N:348:LYS:N	2.37	0.49
1:O:863:THR:HA	1:O:907:ILE:HG13	1.93	0.49
1:A:187:ASN:HA	1:A:249:ASN:ND2	2.23	0.49
1:A:346:CYS:O	1:A:350:THR:N	2.25	0.49
1:A:478:ILE:HG22	1:A:479:GLU:H	1.77	0.49
1:A:863:THR:HA	1:A:907:ILE:HG13	1.93	0.49
1:B:346:CYS:O	1:B:350:THR:N	2.25	0.49
1:B:398:VAL:HG23	1:B:399:MET:N	2.28	0.49
1:C:162:LEU:HD23	1:C:180:TRP:CH2	2.48	0.49
1:C:651:SER:O	1:C:654:ILE:HG23	2.12	0.49
1:C:99:PRO:HB2	1:C:104:ARG:HG3	1.93	0.49
1:D:651:SER:O	1:D:654:ILE:HG23	2.12	0.49
1:D:604:ASN:ND2	1:D:929:VAL:H	2.04	0.49
1:F:275:LEU:HD23	1:F:280:THR:HG21	1.93	0.49
1:F:346:CYS:O	1:F:350:THR:N	2.25	0.49
1:F:443:ILE:HG21	1:F:477:ASN:ND2	2.24	0.49
1:F:517:THR:HA	1:F:520:GLN:CG	2.43	0.49
1:G:563:ARG:HH11	1:G:593:HIS:HA	1.78	0.49
1:G:946:ARG:HG3	1:G:947:GLU:N	2.28	0.49
1:H:1240:LEU:HD12	1:H:1250:SER:HB2	1.93	0.49
1:H:187:ASN:HA	1:H:249:ASN:ND2	2.23	0.49
1:H:248:GLN:HE22	1:H:268:PHE:HZ	1.61	0.49
1:H:337:THR:HG1	1:H:340:ASN:H	1.61	0.49
1:H:863:THR:HA	1:H:907:ILE:HG13	1.93	0.49
1:H:946:ARG:HG3	1:H:947:GLU:N	2.28	0.49
1:I:175:ASP:O	1:I:177:LYS:HG2	2.13	0.49
1:I:275:LEU:HD23	1:I:280:THR:HG21	1.94	0.49
1:I:517:THR:HA	1:I:520:GLN:CG	2.43	0.49
1:I:882:LEU:HB2	1:I:901:HIS:CE1	2.48	0.49
1:J:1252:ALA:HB1	1:J:1256:CYS:HB2	1.95	0.49
1:K:651:SER:O	1:K:654:ILE:HG23	2.12	0.49
1:L:507:ALA:N	1:L:608:ASN:HB2	2.27	0.49
1:L:515:LEU:HD12	1:L:517:THR:H	1.78	0.49
1:L:517:THR:HA	1:L:520:GLN:CG	2.43	0.49
1:L:921:CYS:HA	1:L:930:HIS:O	2.11	0.49
1:M:517:THR:HA	1:M:520:GLN:CG	2.43	0.49
1:N:187:ASN:HA	1:N:249:ASN:ND2	2.24	0.49
1:N:450:PRO:O	1:N:452:THR:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:517:THR:HA	1:N:520:GLN:CG	2.43	0.49
1:O:504:ASP:CG	1:O:509:ASN:O	2.51	0.49
1:O:511:SER:HB3	1:O:645:LEU:HD21	1.95	0.49
1:O:517:THR:HA	1:O:520:GLN:CG	2.43	0.49
1:O:651:SER:O	1:O:654:ILE:HG23	2.12	0.49
1:P:946:ARG:HG3	1:P:947:GLU:N	2.28	0.49
1:P:99:PRO:HB2	1:P:104:ARG:HG3	1.93	0.49
1:A:248:GLN:HE22	1:A:268:PHE:HZ	1.60	0.49
1:B:248:GLN:HE22	1:B:268:PHE:HZ	1.61	0.49
1:B:946:ARG:HG3	1:B:947:GLU:N	2.28	0.49
1:C:921:CYS:HA	1:C:930:HIS:O	2.11	0.49
1:D:450:PRO:O	1:D:452:THR:N	2.46	0.49
1:E:660:PHE:HZ	1:E:731:GLN:HG3	1.78	0.49
1:F:1058:ILE:HG13	1:F:1059:ASP:N	2.27	0.49
1:F:450:PRO:O	1:F:452:THR:N	2.46	0.49
1:F:122:LYS:HG2	1:G:276:SER:OG	2.13	0.49
1:H:517:THR:HA	1:H:520:GLN:CG	2.43	0.49
1:I:541:ALA:O	1:I:544:ASP:N	2.30	0.49
1:I:507:ALA:N	1:I:608:ASN:HB2	2.27	0.49
1:J:337:THR:C	1:J:339:ASP:H	2.16	0.49
1:K:450:PRO:O	1:K:452:THR:N	2.46	0.49
1:L:99:PRO:HB2	1:L:104:ARG:HG3	1.93	0.49
1:L:1192:SER:OG	1:L:1208:GLU:OE2	2.28	0.49
1:M:221:ILE:HG13	1:M:222:HIS:N	2.28	0.49
1:O:248:GLN:HE22	1:O:268:PHE:HZ	1.61	0.49
1:O:538:LEU:HG	1:O:571:GLU:CD	2.33	0.49
1:I:198:LYS:NZ	1:P:222:HIS:CD2	2.81	0.49
1:P:451:LYS:CD	1:P:486:LEU:HD21	2.33	0.49
1:A:538:LEU:HG	1:A:571:GLU:CD	2.33	0.49
1:B:221:ILE:HG13	1:B:222:HIS:N	2.28	0.49
1:C:705:PHE:HB3	1:C:706:ILE:HD12	1.93	0.49
1:D:162:LEU:HD23	1:D:180:TRP:CH2	2.48	0.49
1:D:946:ARG:HG3	1:D:947:GLU:N	2.28	0.49
1:E:162:LEU:HD23	1:E:180:TRP:CH2	2.48	0.49
1:E:337:THR:C	1:E:339:ASP:H	2.16	0.49
1:E:462:TYR:CZ	1:E:467:PHE:HB3	2.48	0.49
1:F:462:TYR:CZ	1:F:467:PHE:HB3	2.48	0.49
1:F:504:ASP:CG	1:F:509:ASN:O	2.51	0.49
1:F:538:LEU:HG	1:F:571:GLU:CG	2.42	0.49
1:H:538:LEU:HG	1:H:571:GLU:CD	2.33	0.49
1:I:504:ASP:CG	1:I:509:ASN:O	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:518:LEU:N	1:I:518:LEU:HD12	2.20	0.49
1:I:523:PHE:HD1	1:I:527:TYR:CE2	2.28	0.49
1:K:162:LEU:HD23	1:K:180:TRP:CH2	2.48	0.49
1:L:248:GLN:NE2	1:L:268:PHE:CZ	2.79	0.49
1:L:538:LEU:HG	1:L:571:GLU:CD	2.33	0.49
1:L:946:ARG:HG3	1:L:947:GLU:N	2.28	0.49
1:M:248:GLN:HE22	1:M:268:PHE:HZ	1.61	0.49
1:M:275:LEU:HD23	1:M:280:THR:HG21	1.93	0.49
1:M:346:CYS:O	1:M:350:THR:N	2.25	0.49
1:N:248:GLN:NE2	1:N:268:PHE:CZ	2.79	0.49
1:N:478:ILE:HG22	1:N:479:GLU:H	1.77	0.49
1:N:538:LEU:HG	1:N:571:GLU:CD	2.33	0.49
1:O:337:THR:HG1	1:O:340:ASN:H	1.61	0.49
1:O:347:ASP:OD1	1:O:348:LYS:N	2.37	0.49
1:O:450:PRO:O	1:O:452:THR:N	2.46	0.49
1:O:882:LEU:HB2	1:O:901:HIS:CE1	2.48	0.49
1:A:515:LEU:HD12	1:A:517:THR:H	1.78	0.49
1:A:511:SER:HB3	1:A:645:LEU:HD21	1.94	0.49
1:B:1252:ALA:HB1	1:B:1256:CYS:HB2	1.94	0.49
1:B:20:GLU:O	1:B:23:PHE:N	2.45	0.49
1:B:275:LEU:HD23	1:B:280:THR:HG21	1.93	0.49
1:B:538:LEU:HD21	1:B:573:ILE:HD11	1.94	0.49
1:B:604:ASN:ND2	1:B:929:VAL:H	2.04	0.49
1:C:175:ASP:O	1:C:177:LYS:HG2	2.13	0.49
1:D:517:THR:HA	1:D:520:GLN:CG	2.43	0.49
1:D:660:PHE:HZ	1:D:731:GLN:HG3	1.78	0.49
1:D:863:THR:HA	1:D:907:ILE:HG13	1.93	0.49
1:E:517:THR:HA	1:E:520:GLN:CG	2.43	0.49
1:F:523:PHE:HD1	1:F:527:TYR:CE2	2.28	0.49
1:F:660:PHE:HZ	1:F:731:GLN:HG3	1.78	0.49
1:G:175:ASP:O	1:G:177:LYS:HG2	2.13	0.49
1:G:462:TYR:CZ	1:G:467:PHE:HB3	2.48	0.49
1:G:463:LEU:CD2	1:G:467:PHE:CD2	2.92	0.49
1:G:538:LEU:HD21	1:G:573:ILE:HD11	1.94	0.49
1:H:221:ILE:HG13	1:H:222:HIS:N	2.28	0.49
1:H:347:ASP:OD1	1:H:348:LYS:N	2.37	0.49
1:H:882:LEU:HB2	1:H:901:HIS:CE1	2.48	0.49
1:I:337:THR:C	1:I:339:ASP:H	2.16	0.49
1:I:450:PRO:O	1:I:452:THR:N	2.46	0.49
1:I:462:TYR:CZ	1:I:467:PHE:HB3	2.48	0.49
1:I:660:PHE:HZ	1:I:731:GLN:HG3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:162:LEU:HD23	1:J:180:TRP:CH2	2.48	0.49
1:J:504:ASP:CG	1:J:509:ASN:O	2.51	0.49
1:J:517:THR:HA	1:J:520:GLN:CG	2.43	0.49
1:J:660:PHE:HZ	1:J:731:GLN:HG3	1.78	0.49
1:K:517:THR:HA	1:K:520:GLN:CG	2.43	0.49
1:K:660:PHE:HZ	1:K:731:GLN:HG3	1.78	0.49
1:K:946:ARG:HG3	1:K:947:GLU:N	2.28	0.49
1:M:1252:ALA:HB1	1:M:1256:CYS:HB2	1.94	0.49
1:M:538:LEU:HG	1:M:571:GLU:CG	2.42	0.49
1:M:538:LEU:HD21	1:M:573:ILE:HD11	1.94	0.49
1:M:946:ARG:HG3	1:M:947:GLU:N	2.28	0.49
1:N:248:GLN:HE22	1:N:268:PHE:HZ	1.61	0.49
1:N:504:ASP:CG	1:N:509:ASN:O	2.51	0.49
1:N:511:SER:HB3	1:N:645:LEU:HD21	1.94	0.49
1:N:515:LEU:HD12	1:N:517:THR:H	1.78	0.49
1:O:1240:LEU:HD12	1:O:1250:SER:HB2	1.93	0.49
1:P:175:ASP:O	1:P:177:LYS:HG2	2.13	0.49
1:P:462:TYR:CZ	1:P:467:PHE:HB3	2.48	0.49
1:P:538:LEU:HD21	1:P:573:ILE:HD11	1.94	0.49
1:P:511:SER:HB3	1:P:645:LEU:HD21	1.94	0.49
1:A:1252:ALA:HB1	1:A:1256:CYS:HB2	1.94	0.48
1:A:253:TRP:CZ3	1:A:262:ILE:HD11	2.48	0.48
1:A:462:TYR:CZ	1:A:467:PHE:HB3	2.48	0.48
1:A:504:ASP:CG	1:A:509:ASN:O	2.51	0.48
1:A:538:LEU:HG	1:A:571:GLU:CG	2.42	0.48
1:B:538:LEU:HG	1:B:571:GLU:CG	2.42	0.48
1:C:515:LEU:HD12	1:C:517:THR:H	1.78	0.48
1:C:14:ASP:CG	1:D:142:ARG:HH12	2.15	0.48
1:G:337:THR:HG1	1:G:340:ASN:H	1.61	0.48
1:G:478:ILE:HG22	1:G:479:GLU:H	1.77	0.48
1:G:556:SER:O	1:G:557:LYS:HB2	2.13	0.48
1:G:511:SER:HB3	1:G:645:LEU:HD21	1.94	0.48
1:H:175:ASP:O	1:H:177:LYS:HG2	2.13	0.48
1:H:450:PRO:O	1:H:452:THR:N	2.46	0.48
1:H:462:TYR:CZ	1:H:467:PHE:HB3	2.48	0.48
1:H:900:GLU:HB2	1:H:930:HIS:CD2	2.48	0.48
1:I:538:LEU:HG	1:I:571:GLU:CD	2.33	0.48
1:J:462:TYR:CZ	1:J:467:PHE:HB3	2.48	0.48
1:K:538:LEU:HG	1:K:571:GLU:CG	2.42	0.48
1:L:175:ASP:O	1:L:177:LYS:HG2	2.13	0.48
1:L:450:PRO:O	1:L:452:THR:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:20:GLU:O	1:M:23:PHE:N	2.45	0.48
1:M:604:ASN:ND2	1:M:929:VAL:H	2.04	0.48
1:N:253:TRP:CZ3	1:N:262:ILE:HD11	2.48	0.48
1:N:337:THR:HG1	1:N:340:ASN:H	1.61	0.48
1:N:346:CYS:O	1:N:350:THR:N	2.25	0.48
1:N:863:THR:HA	1:N:907:ILE:HG13	1.94	0.48
1:O:221:ILE:HG13	1:O:222:HIS:N	2.28	0.48
1:O:462:TYR:CZ	1:O:467:PHE:HB3	2.48	0.48
1:O:988:ASP:OD1	1:O:989:SER:N	2.43	0.48
1:P:463:LEU:CD2	1:P:467:PHE:CD2	2.92	0.48
1:P:478:ILE:HG22	1:P:479:GLU:H	1.77	0.48
1:A:900:GLU:HB2	1:A:930:HIS:CD2	2.48	0.48
1:B:253:TRP:CZ3	1:B:262:ILE:HD11	2.48	0.48
1:C:408:TYR:O	1:C:411:VAL:HG22	2.14	0.48
1:D:175:ASP:O	1:D:177:LYS:HG2	2.13	0.48
1:D:900:GLU:HB2	1:D:930:HIS:CD2	2.48	0.48
1:E:504:ASP:CG	1:E:509:ASN:O	2.51	0.48
1:E:636:SER:O	1:E:637:LEU:O	2.31	0.48
1:E:946:ARG:HG3	1:E:947:GLU:N	2.28	0.48
1:F:507:ALA:N	1:F:608:ASN:HB2	2.27	0.48
1:F:946:ARG:HG3	1:F:947:GLU:N	2.28	0.48
1:G:64:THR:O	1:G:67:SER:OG	2.27	0.48
1:G:651:SER:O	1:G:654:ILE:HG23	2.12	0.48
1:H:346:CYS:O	1:H:350:THR:N	2.25	0.48
1:H:408:TYR:O	1:H:411:VAL:HG22	2.13	0.48
1:H:538:LEU:HG	1:H:571:GLU:CG	2.42	0.48
1:H:660:PHE:HZ	1:H:731:GLN:HG3	1.78	0.48
1:I:443:ILE:HG21	1:I:477:ASN:ND2	2.24	0.48
1:I:64:THR:O	1:I:67:SER:OG	2.27	0.48
1:I:946:ARG:HG3	1:I:947:GLU:N	2.28	0.48
1:J:636:SER:O	1:J:637:LEU:O	2.31	0.48
1:K:175:ASP:O	1:K:177:LYS:HG2	2.13	0.48
1:K:863:THR:HA	1:K:907:ILE:HG13	1.93	0.48
1:K:900:GLU:HB2	1:K:930:HIS:CD2	2.48	0.48
1:L:408:TYR:O	1:L:411:VAL:HG22	2.14	0.48
1:L:518:LEU:HD12	1:L:518:LEU:N	2.20	0.48
1:N:462:TYR:CZ	1:N:467:PHE:HB3	2.48	0.48
1:N:538:LEU:HG	1:N:571:GLU:CG	2.42	0.48
1:N:660:PHE:HZ	1:N:731:GLN:HG3	1.78	0.48
1:N:900:GLU:HB2	1:N:930:HIS:CD2	2.48	0.48
1:N:882:LEU:HB2	1:N:901:HIS:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:175:ASP:O	1:O:177:LYS:HG2	2.13	0.48
1:P:20:GLU:O	1:P:23:PHE:N	2.45	0.48
1:A:660:PHE:HZ	1:A:731:GLN:HG3	1.78	0.48
1:B:293:THR:O	1:B:296:GLU:N	2.40	0.48
1:B:651:SER:O	1:B:654:ILE:HG23	2.12	0.48
1:C:1192:SER:OG	1:C:1208:GLU:OE2	2.28	0.48
1:C:462:TYR:CZ	1:C:467:PHE:HB3	2.48	0.48
1:C:538:LEU:HG	1:C:571:GLU:CD	2.33	0.48
1:C:538:LEU:HG	1:C:571:GLU:CG	2.42	0.48
1:C:511:SER:HB3	1:C:645:LEU:HD21	1.94	0.48
1:C:660:PHE:HZ	1:C:731:GLN:HG3	1.78	0.48
1:D:462:TYR:CZ	1:D:467:PHE:HB3	2.48	0.48
1:E:882:LEU:HB2	1:E:901:HIS:CE1	2.48	0.48
1:G:20:GLU:O	1:G:23:PHE:N	2.45	0.48
1:G:504:ASP:CG	1:G:509:ASN:O	2.51	0.48
1:J:275:LEU:HD23	1:J:280:THR:HG21	1.94	0.48
1:J:538:LEU:HD21	1:J:573:ILE:HD11	1.94	0.48
1:J:882:LEU:HB2	1:J:901:HIS:CE1	2.48	0.48
1:J:946:ARG:HG3	1:J:947:GLU:N	2.28	0.48
1:K:462:TYR:CZ	1:K:467:PHE:HB3	2.48	0.48
1:K:538:LEU:HD21	1:K:573:ILE:HD11	1.94	0.48
1:K:636:SER:O	1:K:637:LEU:O	2.31	0.48
1:M:253:TRP:CZ3	1:M:262:ILE:HD11	2.48	0.48
1:M:293:THR:O	1:M:296:GLU:N	2.40	0.48
1:M:462:TYR:CZ	1:M:467:PHE:HB3	2.48	0.48
1:M:651:SER:O	1:M:654:ILE:HG23	2.12	0.48
1:N:1252:ALA:HB1	1:N:1256:CYS:HB2	1.95	0.48
1:N:463:LEU:HD22	1:N:467:PHE:HD2	1.74	0.48
1:O:900:GLU:HB2	1:O:930:HIS:CD2	2.48	0.48
1:P:515:LEU:HD12	1:P:517:THR:H	1.78	0.48
1:P:556:SER:O	1:P:557:LYS:HB2	2.13	0.48
1:P:651:SER:O	1:P:654:ILE:HG23	2.12	0.48
1:P:900:GLU:HB2	1:P:930:HIS:CD2	2.48	0.48
1:A:337:THR:HG1	1:A:340:ASN:H	1.62	0.48
1:A:882:LEU:HB2	1:A:901:HIS:CE1	2.48	0.48
1:B:462:TYR:CZ	1:B:467:PHE:HB3	2.48	0.48
1:B:882:LEU:HB2	1:B:901:HIS:CE1	2.48	0.48
1:C:253:TRP:CZ3	1:C:262:ILE:HD11	2.48	0.48
1:C:900:GLU:HB2	1:C:930:HIS:CD2	2.48	0.48
1:D:253:TRP:CZ3	1:D:262:ILE:HD11	2.48	0.48
1:D:538:LEU:HD21	1:D:573:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:538:LEU:HG	1:D:571:GLU:CG	2.42	0.48
1:D:636:SER:O	1:D:637:LEU:O	2.31	0.48
1:E:175:ASP:O	1:E:177:LYS:HG2	2.13	0.48
1:E:654:ILE:HG22	1:E:670:HIS:HD2	1.79	0.48
1:F:187:ASN:HA	1:F:249:ASN:ND2	2.23	0.48
1:F:538:LEU:HG	1:F:571:GLU:CD	2.33	0.48
1:F:64:THR:O	1:F:67:SER:OG	2.27	0.48
1:G:337:THR:C	1:G:339:ASP:H	2.16	0.48
1:G:515:LEU:HD12	1:G:517:THR:H	1.78	0.48
1:G:900:GLU:HB2	1:G:930:HIS:CD2	2.48	0.48
1:H:563:ARG:HH11	1:H:593:HIS:HA	1.77	0.48
1:H:988:ASP:OD1	1:H:989:SER:N	2.43	0.48
1:I:187:ASN:HA	1:I:249:ASN:ND2	2.23	0.48
1:I:636:SER:O	1:I:637:LEU:O	2.31	0.48
1:I:654:ILE:HG22	1:I:670:HIS:HD2	1.78	0.48
1:J:398:VAL:HG23	1:J:399:MET:N	2.28	0.48
1:J:654:ILE:HG22	1:J:670:HIS:HD2	1.78	0.48
1:K:1252:ALA:HB1	1:K:1256:CYS:HB2	1.95	0.48
1:L:221:ILE:HG13	1:L:222:HIS:N	2.28	0.48
1:L:511:SER:HB3	1:L:645:LEU:HD21	1.94	0.48
1:L:882:LEU:HB2	1:L:901:HIS:CE1	2.48	0.48
1:M:337:THR:HG1	1:M:340:ASN:H	1.61	0.48
1:M:882:LEU:HB2	1:M:901:HIS:CE1	2.48	0.48
1:N:946:ARG:HG3	1:N:947:GLU:N	2.28	0.48
1:O:253:TRP:CZ3	1:O:264:LEU:HD11	2.48	0.48
1:O:408:TYR:O	1:O:411:VAL:HG22	2.14	0.48
1:O:538:LEU:HG	1:O:571:GLU:CG	2.42	0.48
1:O:563:ARG:HH11	1:O:593:HIS:HA	1.77	0.48
1:O:660:PHE:HZ	1:O:731:GLN:HG3	1.78	0.48
1:P:504:ASP:CG	1:P:509:ASN:O	2.51	0.48
1:A:946:ARG:HG3	1:A:947:GLU:N	2.28	0.48
1:B:324:LEU:HA	1:B:324:LEU:HD12	1.61	0.48
1:B:337:THR:HG1	1:B:340:ASN:H	1.61	0.48
1:B:515:LEU:HD12	1:B:517:THR:H	1.78	0.48
1:C:450:PRO:O	1:C:452:THR:N	2.46	0.48
1:D:1252:ALA:HB1	1:D:1256:CYS:HB2	1.94	0.48
1:D:408:TYR:O	1:D:411:VAL:HG22	2.14	0.48
1:E:275:LEU:HD23	1:E:280:THR:HG21	1.93	0.48
1:E:398:VAL:HG23	1:E:399:MET:N	2.28	0.48
1:E:515:LEU:HD12	1:E:517:THR:H	1.78	0.48
1:E:538:LEU:HD21	1:E:573:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:654:ILE:HG22	1:F:670:HIS:HD2	1.79	0.48
1:G:499:GLN:HG3	1:G:502:ARG:HB2	1.96	0.48
1:G:641:ASP:OD1	1:G:642:THR:N	2.45	0.48
1:H:253:TRP:CZ3	1:H:264:LEU:HD11	2.49	0.48
1:H:247:VAL:HG21	1:H:264:LEU:HD22	1.96	0.48
1:I:515:LEU:HD12	1:I:517:THR:H	1.78	0.48
1:J:175:ASP:O	1:J:177:LYS:HG2	2.13	0.48
1:J:515:LEU:HD12	1:J:517:THR:H	1.78	0.48
1:L:462:TYR:CZ	1:L:467:PHE:HB3	2.48	0.48
1:L:900:GLU:HB2	1:L:930:HIS:CD2	2.48	0.48
1:M:175:ASP:O	1:M:177:LYS:HG2	2.13	0.48
1:M:324:LEU:HD12	1:M:324:LEU:HA	1.61	0.48
1:N:221:ILE:HG13	1:N:222:HIS:N	2.28	0.48
1:N:538:LEU:HD21	1:N:573:ILE:HD11	1.94	0.48
1:O:499:GLN:HG3	1:O:502:ARG:HB2	1.96	0.48
1:P:337:THR:C	1:P:339:ASP:H	2.16	0.48
1:P:499:GLN:HG3	1:P:502:ARG:HB2	1.96	0.48
1:A:463:LEU:HD22	1:A:467:PHE:HD2	1.74	0.48
1:C:499:GLN:HG3	1:C:502:ARG:HB2	1.96	0.48
1:D:373:SER:CB	1:D:433:LEU:CD1	2.73	0.48
1:E:293:THR:O	1:E:296:GLU:N	2.40	0.48
1:E:450:PRO:O	1:E:452:THR:N	2.46	0.48
1:E:511:SER:HB3	1:E:645:LEU:HD21	1.95	0.48
1:F:636:SER:O	1:F:637:LEU:O	2.31	0.48
1:F:965:LEU:HD11	1:F:993:ILE:HG12	1.96	0.48
1:G:347:ASP:OD1	1:G:348:LYS:N	2.37	0.48
1:H:499:GLN:HG3	1:H:502:ARG:HB2	1.96	0.48
1:K:253:TRP:CZ3	1:K:262:ILE:HD11	2.48	0.48
1:K:408:TYR:O	1:K:411:VAL:HG22	2.14	0.48
1:K:556:SER:O	1:K:557:LYS:HB2	2.13	0.48
1:K:875:LEU:CD1	1:K:911:PHE:HD2	2.07	0.48
1:L:538:LEU:HG	1:L:571:GLU:CG	2.42	0.48
1:M:515:LEU:HD12	1:M:517:THR:H	1.78	0.48
1:M:654:ILE:HG22	1:M:670:HIS:HD2	1.78	0.48
1:O:247:VAL:HG21	1:O:264:LEU:HD22	1.96	0.48
1:P:347:ASP:OD1	1:P:348:LYS:N	2.37	0.48
1:P:463:LEU:HD22	1:P:467:PHE:HD2	1.74	0.48
1:P:641:ASP:OD1	1:P:642:THR:N	2.45	0.48
1:P:965:LEU:HD11	1:P:993:ILE:HG12	1.96	0.48
1:A:221:ILE:HG13	1:A:222:HIS:N	2.28	0.48
1:A:90:SER:OG	1:A:91:PRO:HD3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:ASP:O	1:B:177:LYS:HG2	2.13	0.48
1:B:253:TRP:CZ3	1:B:264:LEU:HD11	2.49	0.48
1:B:408:TYR:O	1:B:411:VAL:HG22	2.14	0.48
1:B:654:ILE:HG22	1:B:670:HIS:HD2	1.78	0.48
1:C:221:ILE:HG13	1:C:222:HIS:N	2.28	0.48
1:C:882:LEU:HB2	1:C:901:HIS:CE1	2.48	0.48
1:D:556:SER:O	1:D:557:LYS:HB2	2.13	0.48
1:D:654:ILE:HG22	1:D:670:HIS:HD2	1.78	0.48
1:E:253:TRP:CZ3	1:E:262:ILE:HD11	2.48	0.48
1:E:458:LEU:CG	1:E:587:ARG:NH2	2.74	0.48
1:F:383:THR:O	1:F:386:LEU:HB3	2.14	0.48
1:F:499:GLN:HG3	1:F:502:ARG:HB2	1.96	0.48
1:G:965:LEU:HD11	1:G:993:ILE:HG12	1.96	0.48
1:I:317:LEU:O	1:I:318:THR:CB	2.61	0.48
1:I:346:CYS:O	1:I:350:THR:N	2.25	0.48
1:I:383:THR:O	1:I:386:LEU:HB3	2.14	0.48
1:J:293:THR:O	1:J:296:GLU:N	2.40	0.48
1:J:450:PRO:O	1:J:452:THR:N	2.46	0.48
1:J:511:SER:HB3	1:J:645:LEU:HD21	1.95	0.48
1:K:398:VAL:HG23	1:K:399:MET:N	2.28	0.48
1:L:187:ASN:HA	1:L:249:ASN:ND2	2.24	0.48
1:L:253:TRP:CZ3	1:L:262:ILE:HD11	2.48	0.48
1:L:499:GLN:HG3	1:L:502:ARG:HB2	1.96	0.48
1:L:636:SER:O	1:L:637:LEU:O	2.31	0.48
1:L:660:PHE:HZ	1:L:731:GLN:HG3	1.78	0.48
1:M:247:VAL:HG21	1:M:264:LEU:HD22	1.96	0.48
1:M:408:TYR:O	1:M:411:VAL:HG22	2.14	0.48
1:N:337:THR:C	1:N:339:ASP:H	2.16	0.48
1:N:499:GLN:HG3	1:N:502:ARG:HB2	1.96	0.48
1:N:90:SER:OG	1:N:91:PRO:HD3	2.14	0.48
1:O:346:CYS:O	1:O:350:THR:N	2.25	0.48
1:P:337:THR:HG1	1:P:340:ASN:H	1.61	0.48
1:A:175:ASP:O	1:A:177:LYS:HG2	2.13	0.48
1:A:499:GLN:HG3	1:A:502:ARG:HB2	1.96	0.48
1:B:247:VAL:HG21	1:B:264:LEU:HD22	1.96	0.48
1:B:499:GLN:HG3	1:B:502:ARG:HB2	1.96	0.48
1:B:538:LEU:HG	1:B:571:GLU:CD	2.33	0.48
1:B:511:SER:HB3	1:B:645:LEU:HD21	1.95	0.48
1:B:900:GLU:HB2	1:B:930:HIS:CD2	2.48	0.48
1:C:337:THR:C	1:C:339:ASP:H	2.16	0.48
1:C:538:LEU:HD21	1:C:573:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:654:ILE:HG22	1:C:670:HIS:HD2	1.78	0.48
1:D:499:GLN:HG3	1:D:502:ARG:HB2	1.96	0.48
1:D:875:LEU:CD1	1:D:911:PHE:HD2	2.07	0.48
1:E:408:TYR:O	1:E:411:VAL:HG22	2.14	0.48
1:F:247:VAL:HG21	1:F:264:LEU:HD22	1.96	0.48
1:E:121:ALA:CB	1:F:276:SER:CB	2.79	0.48
1:F:398:VAL:HG23	1:F:399:MET:N	2.28	0.48
1:F:463:LEU:HD22	1:F:467:PHE:HD2	1.74	0.48
1:F:511:SER:HB3	1:F:645:LEU:HD21	1.94	0.48
1:F:90:SER:OG	1:F:91:PRO:HD3	2.14	0.48
1:G:1252:ALA:HB1	1:G:1256:CYS:HB2	1.94	0.48
1:I:398:VAL:HG23	1:I:399:MET:N	2.28	0.48
1:J:408:TYR:O	1:J:411:VAL:HG22	2.14	0.48
1:K:499:GLN:HG3	1:K:502:ARG:HB2	1.96	0.48
1:K:511:SER:HB3	1:K:645:LEU:HD21	1.94	0.48
1:K:654:ILE:HG22	1:K:670:HIS:HD2	1.78	0.48
1:L:337:THR:HG1	1:L:340:ASN:H	1.62	0.48
1:M:253:TRP:CZ3	1:M:264:LEU:HD11	2.49	0.48
1:M:538:LEU:HG	1:M:571:GLU:CD	2.33	0.48
1:M:511:SER:HB3	1:M:645:LEU:HD21	1.94	0.48
1:M:900:GLU:HB2	1:M:930:HIS:CD2	2.48	0.48
1:N:398:VAL:HG23	1:N:399:MET:N	2.28	0.48
1:P:1252:ALA:HB1	1:P:1256:CYS:HB2	1.94	0.48
1:P:408:TYR:O	1:P:411:VAL:HG22	2.14	0.48
1:A:253:TRP:CZ3	1:A:264:LEU:HD11	2.48	0.48
1:A:337:THR:C	1:A:339:ASP:H	2.16	0.48
1:A:398:VAL:HG23	1:A:399:MET:N	2.28	0.48
1:A:538:LEU:HD21	1:A:573:ILE:HD11	1.94	0.48
1:A:552:ASN:HB3	1:A:1226:TYR:CE1	2.48	0.48
1:B:337:THR:C	1:B:339:ASP:H	2.16	0.48
1:B:392:ASP:OD1	1:B:393:VAL:N	2.47	0.48
1:C:253:TRP:CZ3	1:C:264:LEU:HD11	2.49	0.48
1:C:337:THR:HG1	1:C:340:ASN:H	1.62	0.48
1:D:130:PRO:HA	1:D:290:MET:HE3	1.95	0.48
1:D:317:LEU:O	1:D:318:THR:CB	2.61	0.48
1:D:511:SER:HB3	1:D:645:LEU:HD21	1.95	0.48
1:E:463:LEU:CD2	1:E:467:PHE:CD2	2.92	0.48
1:E:510:ALA:HB1	1:E:515:LEU:HA	1.96	0.48
1:E:604:ASN:ND2	1:E:929:VAL:H	2.04	0.48
1:E:900:GLU:HB2	1:E:930:HIS:CD2	2.48	0.48
1:F:317:LEU:O	1:F:318:THR:CB	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:510:ALA:HB1	1:F:515:LEU:HA	1.96	0.48
1:F:515:LEU:HD12	1:F:517:THR:H	1.78	0.48
1:G:383:THR:O	1:G:386:LEU:HB3	2.14	0.48
1:G:408:TYR:O	1:G:411:VAL:HG22	2.14	0.48
1:G:463:LEU:HD22	1:G:467:PHE:HD2	1.74	0.48
1:H:383:THR:O	1:H:386:LEU:HB3	2.14	0.48
1:I:499:GLN:HG3	1:I:502:ARG:HB2	1.96	0.48
1:I:90:SER:OG	1:I:91:PRO:HD3	2.14	0.48
1:I:965:LEU:HD11	1:I:993:ILE:HG12	1.96	0.48
1:J:253:TRP:CZ3	1:J:262:ILE:HD11	2.48	0.48
1:J:510:ALA:HB1	1:J:515:LEU:HA	1.96	0.48
1:J:458:LEU:CG	1:J:587:ARG:NH2	2.74	0.48
1:J:604:ASN:ND2	1:J:929:VAL:H	2.04	0.48
1:J:900:GLU:HB2	1:J:930:HIS:CD2	2.48	0.48
1:J:965:LEU:HD11	1:J:993:ILE:HG12	1.96	0.48
1:K:130:PRO:HA	1:K:290:MET:HE3	1.95	0.48
1:K:317:LEU:O	1:K:318:THR:CB	2.61	0.48
1:K:538:LEU:HG	1:K:571:GLU:CD	2.33	0.48
1:L:180:TRP:O	1:L:181:LEU:HD12	2.14	0.48
1:L:654:ILE:HG22	1:L:670:HIS:HD2	1.79	0.48
1:M:337:THR:C	1:M:339:ASP:H	2.16	0.48
1:M:499:GLN:HG3	1:M:502:ARG:HB2	1.96	0.48
1:M:90:SER:OG	1:M:91:PRO:HD3	2.14	0.48
1:N:253:TRP:CZ3	1:N:264:LEU:HD11	2.49	0.48
1:N:552:ASN:HB3	1:N:1226:TYR:CE1	2.48	0.48
1:N:654:ILE:HG22	1:N:670:HIS:HD2	1.78	0.48
1:O:337:THR:C	1:O:339:ASP:H	2.16	0.48
1:O:383:THR:O	1:O:386:LEU:HB3	2.14	0.48
1:O:965:LEU:HD11	1:O:993:ILE:HG12	1.96	0.48
1:P:383:THR:O	1:P:386:LEU:HB3	2.14	0.48
1:A:198:LYS:NZ	1:B:222:HIS:CG	2.81	0.48
1:A:502:ARG:HD3	1:A:516:ASN:HA	1.96	0.48
1:A:654:ILE:HG22	1:A:670:HIS:HD2	1.78	0.48
1:B:441:ARG:O	1:B:445:ASP:HB3	2.14	0.48
1:B:504:ASP:CG	1:B:509:ASN:O	2.51	0.48
1:B:90:SER:OG	1:B:91:PRO:HD3	2.14	0.48
1:C:180:TRP:O	1:C:181:LEU:HD12	2.14	0.48
1:C:247:VAL:HG21	1:C:264:LEU:HD22	1.96	0.48
1:C:383:THR:O	1:C:386:LEU:HB3	2.14	0.48
1:C:441:ARG:O	1:C:445:ASP:HB3	2.14	0.48
1:C:556:SER:O	1:C:557:LYS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:604:ASN:ND2	1:C:928:VAL:HB	2.29	0.48
1:D:180:TRP:O	1:D:181:LEU:HD12	2.14	0.48
1:D:398:VAL:HG23	1:D:399:MET:N	2.28	0.48
1:D:447:TYR:CG	1:D:447:TYR:O	2.67	0.48
1:D:538:LEU:HG	1:D:571:GLU:CD	2.33	0.48
1:E:180:TRP:O	1:E:181:LEU:HD12	2.14	0.48
1:E:965:LEU:HD11	1:E:993:ILE:HG12	1.96	0.48
1:G:130:PRO:HA	1:G:290:MET:HE3	1.95	0.48
1:H:337:THR:C	1:H:339:ASP:H	2.16	0.48
1:I:11:GLN:O	1:I:14:ASP:N	2.46	0.48
1:I:247:VAL:HG21	1:I:264:LEU:HD22	1.96	0.48
1:I:510:ALA:HB1	1:I:515:LEU:HA	1.96	0.48
1:J:382:PRO:HA	1:J:419:THR:CG2	2.36	0.48
1:K:247:VAL:HG21	1:K:264:LEU:HD22	1.96	0.48
1:K:337:THR:HG1	1:K:340:ASN:H	1.62	0.48
1:K:441:ARG:O	1:K:445:ASP:HB3	2.14	0.48
1:K:447:TYR:CG	1:K:447:TYR:O	2.67	0.48
1:L:441:ARG:O	1:L:445:ASP:HB3	2.14	0.48
1:L:447:TYR:O	1:L:447:TYR:CG	2.67	0.48
1:L:538:LEU:HD21	1:L:573:ILE:HD11	1.94	0.48
1:L:604:ASN:ND2	1:L:928:VAL:HB	2.29	0.48
1:M:441:ARG:O	1:M:445:ASP:HB3	2.14	0.48
1:N:175:ASP:O	1:N:177:LYS:HG2	2.13	0.48
1:N:502:ARG:HD3	1:N:516:ASN:HA	1.96	0.48
1:N:64:THR:O	1:N:67:SER:OG	2.27	0.48
1:P:510:ALA:HB1	1:P:515:LEU:HA	1.96	0.48
1:A:463:LEU:CD2	1:A:467:PHE:CD2	2.92	0.47
1:A:965:LEU:HD11	1:A:993:ILE:HG12	1.96	0.47
1:B:194:GLU:OE2	1:C:216:ASN:ND2	2.47	0.47
1:B:478:ILE:HG22	1:B:479:GLU:N	2.29	0.47
1:C:447:TYR:O	1:C:447:TYR:CG	2.67	0.47
1:C:636:SER:O	1:C:637:LEU:O	2.31	0.47
1:D:441:ARG:O	1:D:445:ASP:HB3	2.14	0.47
1:E:117:ASN:O	1:E:119:VAL:N	2.47	0.47
1:E:434:GLU:C	1:E:436:GLU:H	2.18	0.47
1:E:478:ILE:HG22	1:E:479:GLU:N	2.29	0.47
1:F:253:TRP:CZ3	1:F:262:ILE:HD11	2.48	0.47
1:G:510:ALA:HB1	1:G:515:LEU:HA	1.96	0.47
1:G:654:ILE:HG22	1:G:670:HIS:HD2	1.78	0.47
1:H:253:TRP:CZ3	1:H:262:ILE:HD11	2.48	0.47
1:H:965:LEU:HD11	1:H:993:ILE:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:253:TRP:CZ3	1:I:262:ILE:HD11	2.48	0.47
1:J:117:ASN:O	1:J:119:VAL:N	2.47	0.47
1:J:180:TRP:O	1:J:181:LEU:HD12	2.14	0.47
1:J:556:SER:O	1:J:557:LYS:HB2	2.13	0.47
1:K:180:TRP:O	1:K:181:LEU:HD12	2.14	0.47
1:K:373:SER:CB	1:K:433:LEU:CD1	2.73	0.47
1:L:253:TRP:CZ3	1:L:264:LEU:HD11	2.49	0.47
1:L:247:VAL:HG21	1:L:264:LEU:HD22	1.96	0.47
1:N:965:LEU:HD11	1:N:993:ILE:HG12	1.96	0.47
1:O:11:GLN:O	1:O:14:ASP:N	2.46	0.47
1:O:1192:SER:OG	1:O:1208:GLU:OE2	2.28	0.47
1:O:1252:ALA:HB1	1:O:1256:CYS:HB2	1.94	0.47
1:P:130:PRO:HA	1:P:290:MET:HE3	1.95	0.47
1:P:654:ILE:HG22	1:P:670:HIS:HD2	1.78	0.47
1:P:604:ASN:ND2	1:P:928:VAL:HB	2.29	0.47
1:A:117:ASN:O	1:A:119:VAL:N	2.47	0.47
1:A:604:ASN:ND2	1:A:928:VAL:HB	2.29	0.47
1:A:638:GLU:OE1	1:A:640:GLU:N	2.42	0.47
1:B:117:ASN:O	1:B:119:VAL:N	2.47	0.47
1:B:180:TRP:O	1:B:181:LEU:HD12	2.14	0.47
1:C:365:TYR:OH	1:C:404:LYS:HG2	2.15	0.47
1:D:247:VAL:HG21	1:D:264:LEU:HD22	1.96	0.47
1:D:376:PRO:HG3	1:D:473:HIS:CD2	2.49	0.47
1:D:496:PHE:HE2	1:D:555:CYS:HG	1.58	0.47
1:D:552:ASN:HB3	1:D:1226:TYR:CE1	2.48	0.47
1:D:875:LEU:CD2	1:D:911:PHE:CE2	2.97	0.47
1:E:247:VAL:HG21	1:E:264:LEU:HD22	1.96	0.47
1:E:382:PRO:HA	1:E:419:THR:CG2	2.36	0.47
1:E:441:ARG:O	1:E:445:ASP:HB3	2.14	0.47
1:E:453:PHE:CE2	1:E:460:PRO:HB3	2.49	0.47
1:E:556:SER:O	1:E:557:LYS:HB2	2.13	0.47
1:E:875:LEU:CD2	1:E:911:PHE:CE2	2.97	0.47
1:F:376:PRO:HG3	1:F:473:HIS:CD2	2.49	0.47
1:F:408:TYR:O	1:F:411:VAL:HG22	2.14	0.47
1:F:462:TYR:OH	1:F:494:PHE:CZ	2.66	0.47
1:G:253:TRP:CZ3	1:G:262:ILE:HD11	2.48	0.47
1:G:462:TYR:OH	1:G:494:PHE:CZ	2.66	0.47
1:G:502:ARG:HD3	1:G:516:ASN:HA	1.96	0.47
1:G:602:ILE:HD12	1:G:900:GLU:HG2	1.96	0.47
1:G:604:ASN:ND2	1:G:928:VAL:HB	2.29	0.47
1:H:1252:ALA:HB1	1:H:1256:CYS:HB2	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:478:ILE:HG22	1:H:479:GLU:N	2.29	0.47
1:H:511:SER:C	1:H:513:SER:N	2.60	0.47
1:H:554:ILE:O	1:H:556:SER:N	2.45	0.47
1:I:180:TRP:O	1:I:181:LEU:HD12	2.14	0.47
1:I:511:SER:HB3	1:I:645:LEU:HD21	1.95	0.47
1:J:434:GLU:C	1:J:436:GLU:H	2.18	0.47
1:J:441:ARG:O	1:J:445:ASP:HB3	2.14	0.47
1:J:453:PHE:CE2	1:J:460:PRO:HB3	2.49	0.47
1:J:478:ILE:HG22	1:J:479:GLU:N	2.30	0.47
1:J:875:LEU:CD2	1:J:911:PHE:CE2	2.97	0.47
1:K:337:THR:C	1:K:339:ASP:H	2.16	0.47
1:K:376:PRO:HG3	1:K:473:HIS:CD2	2.49	0.47
1:K:875:LEU:CD2	1:K:911:PHE:CE2	2.97	0.47
1:L:337:THR:C	1:L:339:ASP:H	2.16	0.47
1:L:602:ILE:HD12	1:L:900:GLU:HG2	1.97	0.47
1:M:180:TRP:O	1:M:181:LEU:HD12	2.14	0.47
1:M:187:ASN:HA	1:M:249:ASN:ND2	2.24	0.47
1:M:478:ILE:HG22	1:M:479:GLU:N	2.30	0.47
1:M:504:ASP:CG	1:M:509:ASN:O	2.51	0.47
1:N:463:LEU:CD2	1:N:467:PHE:CD2	2.92	0.47
1:N:604:ASN:ND2	1:N:928:VAL:HB	2.29	0.47
1:O:253:TRP:CZ3	1:O:262:ILE:HD11	2.48	0.47
1:O:511:SER:C	1:O:513:SER:N	2.61	0.47
1:P:253:TRP:CZ3	1:P:262:ILE:HD11	2.48	0.47
1:P:602:ILE:HD12	1:P:900:GLU:HG2	1.97	0.47
1:O:1177:TYR:CE2	1:P:916:LYS:CE	2.97	0.47
1:A:64:THR:O	1:A:67:SER:OG	2.27	0.47
1:B:365:TYR:OH	1:B:404:LYS:HG2	2.15	0.47
1:B:447:TYR:CG	1:B:447:TYR:O	2.67	0.47
1:C:187:ASN:HA	1:C:249:ASN:ND2	2.24	0.47
1:C:502:ARG:HD3	1:C:516:ASN:HA	1.96	0.47
1:C:90:SER:OG	1:C:91:PRO:HD3	2.14	0.47
1:D:510:ALA:HB1	1:D:515:LEU:HA	1.96	0.47
1:E:447:TYR:CG	1:E:447:TYR:O	2.67	0.47
1:F:180:TRP:O	1:F:181:LEU:HD12	2.14	0.47
1:F:337:THR:HG1	1:F:340:ASN:H	1.62	0.47
1:F:604:ASN:ND2	1:F:928:VAL:HB	2.29	0.47
1:G:11:GLN:O	1:G:14:ASP:N	2.46	0.47
1:G:253:TRP:CZ3	1:G:264:LEU:HD11	2.49	0.47
1:G:552:ASN:HB3	1:G:1226:TYR:CE1	2.48	0.47
1:H:11:GLN:O	1:H:14:ASP:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:122:LYS:O	1:I:303:LYS:NZ	2.38	0.47
1:I:408:TYR:O	1:I:411:VAL:HG22	2.13	0.47
1:I:463:LEU:HD22	1:I:467:PHE:HD2	1.74	0.47
1:I:376:PRO:HG3	1:I:473:HIS:CD2	2.50	0.47
1:I:875:LEU:CD2	1:I:911:PHE:CE2	2.97	0.47
1:J:499:GLN:HG3	1:J:502:ARG:HB2	1.96	0.47
1:J:602:ILE:HD12	1:J:900:GLU:HG2	1.97	0.47
1:K:496:PHE:HE2	1:K:555:CYS:HG	1.58	0.47
1:K:965:LEU:HD11	1:K:993:ILE:HG12	1.96	0.47
1:L:383:THR:O	1:L:386:LEU:HB3	2.14	0.47
1:L:365:TYR:OH	1:L:404:LYS:HG2	2.15	0.47
1:L:483:ARG:O	1:L:486:LEU:N	2.48	0.47
1:M:117:ASN:O	1:M:119:VAL:N	2.48	0.47
1:M:447:TYR:O	1:M:447:TYR:CG	2.67	0.47
1:N:117:ASN:O	1:N:119:VAL:N	2.47	0.47
1:N:434:GLU:C	1:N:436:GLU:H	2.18	0.47
1:O:324:LEU:HA	1:O:324:LEU:HD12	1.61	0.47
1:O:554:ILE:O	1:O:556:SER:N	2.45	0.47
1:P:11:GLN:O	1:P:14:ASP:N	2.46	0.47
1:P:253:TRP:CZ3	1:P:264:LEU:HD11	2.49	0.47
1:A:376:PRO:HG3	1:A:473:HIS:CD2	2.50	0.47
1:A:434:GLU:C	1:A:436:GLU:H	2.18	0.47
1:A:443:ILE:HG21	1:A:477:ASN:ND2	2.24	0.47
1:A:875:LEU:CD2	1:A:911:PHE:CE2	2.97	0.47
1:B:187:ASN:HA	1:B:249:ASN:ND2	2.24	0.47
1:C:483:ARG:O	1:C:486:LEU:N	2.48	0.47
1:C:523:PHE:HD1	1:C:527:TYR:CE2	2.28	0.47
1:C:602:ILE:HD12	1:C:900:GLU:HG2	1.97	0.47
1:D:122:LYS:O	1:D:303:LYS:NZ	2.38	0.47
1:C:198:LYS:HZ1	1:D:222:HIS:CG	2.32	0.47
1:D:90:SER:OG	1:D:91:PRO:HD3	2.14	0.47
1:D:965:LEU:HD11	1:D:993:ILE:HG12	1.96	0.47
1:E:499:GLN:HG3	1:E:502:ARG:HB2	1.96	0.47
1:E:602:ILE:HD12	1:E:900:GLU:HG2	1.97	0.47
1:E:90:SER:OG	1:E:91:PRO:HD3	2.14	0.47
1:F:451:LYS:CD	1:F:486:LEU:HD21	2.33	0.47
1:F:875:LEU:CD2	1:F:911:PHE:CE2	2.97	0.47
1:I:1252:ALA:HB1	1:I:1256:CYS:HB2	1.94	0.47
1:I:462:TYR:OH	1:I:494:PHE:CZ	2.66	0.47
1:J:247:VAL:HG21	1:J:264:LEU:HD22	1.96	0.47
1:J:447:TYR:O	1:J:447:TYR:CG	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:463:LEU:CD2	1:J:467:PHE:CD2	2.92	0.47
1:K:510:ALA:HB1	1:K:515:LEU:HA	1.96	0.47
1:M:365:TYR:OH	1:M:404:LYS:HG2	2.15	0.47
1:N:376:PRO:HG3	1:N:473:HIS:CD2	2.49	0.47
1:N:523:PHE:HD1	1:N:527:TYR:CE2	2.28	0.47
1:N:875:LEU:CD2	1:N:911:PHE:CE2	2.97	0.47
1:O:478:ILE:HG22	1:O:479:GLU:N	2.30	0.47
1:P:502:ARG:HD3	1:P:516:ASN:HA	1.96	0.47
1:P:552:ASN:HB3	1:P:1226:TYR:CE1	2.48	0.47
1:P:90:SER:OG	1:P:91:PRO:HD3	2.14	0.47
1:A:383:THR:O	1:A:386:LEU:HB3	2.14	0.47
1:A:408:TYR:O	1:A:411:VAL:HG22	2.14	0.47
1:B:636:SER:O	1:B:637:LEU:O	2.31	0.47
1:B:965:LEU:HD11	1:B:993:ILE:HG12	1.96	0.47
1:C:152:VAL:O	1:C:155:SER:OG	2.29	0.47
1:C:478:ILE:HG22	1:C:479:GLU:N	2.29	0.47
1:D:337:THR:C	1:D:339:ASP:H	2.16	0.47
1:E:483:ARG:O	1:E:486:LEU:N	2.48	0.47
1:F:11:GLN:O	1:F:14:ASP:N	2.46	0.47
1:F:1252:ALA:HB1	1:F:1256:CYS:HB2	1.95	0.47
1:F:253:TRP:CZ3	1:F:264:LEU:HD11	2.49	0.47
1:F:365:TYR:OH	1:F:404:LYS:HG2	2.15	0.47
1:F:483:ARG:O	1:F:486:LEU:N	2.48	0.47
1:G:636:SER:O	1:G:637:LEU:O	2.31	0.47
1:G:90:SER:OG	1:G:91:PRO:HD3	2.14	0.47
1:H:1192:SER:OG	1:H:1208:GLU:OE2	2.28	0.47
1:H:510:ALA:HB1	1:H:515:LEU:HA	1.96	0.47
1:H:875:LEU:CD2	1:H:911:PHE:CE2	2.97	0.47
1:I:478:ILE:HG22	1:I:479:GLU:N	2.29	0.47
1:I:604:ASN:ND2	1:I:928:VAL:HB	2.29	0.47
1:J:483:ARG:O	1:J:486:LEU:N	2.48	0.47
1:J:604:ASN:ND2	1:J:928:VAL:HB	2.29	0.47
1:J:988:ASP:OD1	1:J:989:SER:N	2.43	0.47
1:K:552:ASN:HB3	1:K:1226:TYR:CE1	2.48	0.47
1:L:392:ASP:OD1	1:L:393:VAL:N	2.47	0.47
1:L:502:ARG:HD3	1:L:516:ASN:HA	1.96	0.47
1:L:556:SER:O	1:L:557:LYS:HB2	2.13	0.47
1:L:965:LEU:HD11	1:L:993:ILE:HG12	1.96	0.47
1:M:636:SER:O	1:M:637:LEU:O	2.31	0.47
1:M:875:LEU:CD2	1:M:911:PHE:CE2	2.97	0.47
1:M:965:LEU:HD11	1:M:993:ILE:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:383:THR:O	1:N:386:LEU:HB3	2.14	0.47
1:N:365:TYR:OH	1:N:404:LYS:HG2	2.15	0.47
1:O:434:GLU:C	1:O:436:GLU:H	2.18	0.47
1:O:636:SER:O	1:O:637:LEU:O	2.31	0.47
1:P:636:SER:O	1:P:637:LEU:O	2.31	0.47
1:A:365:TYR:OH	1:A:404:LYS:HG2	2.15	0.47
1:A:916:LYS:HE2	1:B:1177:TYR:CE2	2.47	0.47
1:A:604:ASN:ND2	1:A:929:VAL:H	2.04	0.47
1:B:383:THR:O	1:B:386:LEU:HB3	2.14	0.47
1:B:615:TYR:CD1	1:B:622:LEU:HD13	2.50	0.47
1:B:875:LEU:CD2	1:B:911:PHE:CE2	2.97	0.47
1:C:965:LEU:HD11	1:C:993:ILE:HG12	1.96	0.47
1:D:352:ILE:O	1:D:356:SER:OG	2.29	0.47
1:D:434:GLU:C	1:D:436:GLU:H	2.18	0.47
1:E:383:THR:O	1:E:386:LEU:HB3	2.14	0.47
1:E:463:LEU:HD22	1:E:467:PHE:HD2	1.74	0.47
1:E:604:ASN:ND2	1:E:928:VAL:HB	2.29	0.47
1:F:615:TYR:CD1	1:F:622:LEU:HD13	2.50	0.47
1:G:615:TYR:CD1	1:G:622:LEU:HD13	2.50	0.47
1:H:434:GLU:C	1:H:436:GLU:H	2.18	0.47
1:H:636:SER:O	1:H:637:LEU:O	2.31	0.47
1:H:811:ASP:OD1	1:H:812:THR:N	2.47	0.47
1:I:483:ARG:O	1:I:486:LEU:N	2.48	0.47
1:I:900:GLU:HB2	1:I:930:HIS:CD2	2.48	0.47
1:J:463:LEU:HD22	1:J:467:PHE:HD2	1.74	0.47
1:J:90:SER:OG	1:J:91:PRO:HD3	2.14	0.47
1:K:90:SER:OG	1:K:91:PRO:HD3	2.14	0.47
1:L:170:VAL:O	1:L:173:LYS:N	2.48	0.47
1:L:478:ILE:HG22	1:L:479:GLU:N	2.29	0.47
1:L:90:SER:OG	1:L:91:PRO:HD3	2.14	0.47
1:M:615:TYR:CD1	1:M:622:LEU:HD13	2.50	0.47
1:N:408:TYR:O	1:N:411:VAL:HG22	2.14	0.47
1:N:638:GLU:OE1	1:N:640:GLU:N	2.42	0.47
1:O:376:PRO:HG3	1:O:473:HIS:CD2	2.49	0.47
1:O:811:ASP:OD1	1:O:812:THR:N	2.46	0.47
1:O:875:LEU:CD2	1:O:911:PHE:CE2	2.97	0.47
1:P:615:TYR:CD1	1:P:622:LEU:HD13	2.50	0.47
1:A:441:ARG:O	1:A:445:ASP:HB3	2.14	0.47
1:A:523:PHE:HD1	1:A:527:TYR:CE2	2.28	0.47
1:A:602:ILE:HD12	1:A:900:GLU:HG2	1.97	0.47
1:B:376:PRO:HG3	1:B:473:HIS:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:117:ASN:O	1:C:119:VAL:N	2.47	0.47
1:C:392:ASP:OD1	1:C:393:VAL:N	2.47	0.47
1:D:117:ASN:O	1:D:119:VAL:N	2.47	0.47
1:C:115:ASN:HB3	1:D:257:ASN:OD1	2.14	0.47
1:D:337:THR:HG1	1:D:340:ASN:H	1.63	0.47
1:D:604:ASN:ND2	1:D:928:VAL:HB	2.29	0.47
1:E:170:VAL:O	1:E:173:LYS:N	2.48	0.47
1:E:554:ILE:O	1:E:556:SER:N	2.45	0.47
1:E:988:ASP:OD1	1:E:989:SER:N	2.43	0.47
1:F:556:SER:O	1:F:557:LYS:HB2	2.13	0.47
1:F:900:GLU:HB2	1:F:930:HIS:CD2	2.48	0.47
1:G:346:CYS:O	1:G:350:THR:N	2.25	0.47
1:G:441:ARG:O	1:G:445:ASP:HB3	2.14	0.47
1:G:537:ARG:HA	1:G:540:ASN:HB2	1.97	0.47
1:A:222:HIS:CG	1:H:198:LYS:HZ1	2.32	0.47
1:H:376:PRO:HG3	1:H:473:HIS:CD2	2.49	0.47
1:H:447:TYR:CG	1:H:447:TYR:O	2.67	0.47
1:H:537:ARG:HA	1:H:540:ASN:HB2	1.97	0.47
1:H:90:SER:OG	1:H:91:PRO:HD3	2.14	0.47
1:I:1192:SER:OG	1:I:1208:GLU:OE2	2.28	0.47
1:I:253:TRP:CZ3	1:I:264:LEU:HD11	2.49	0.47
1:I:556:SER:O	1:I:557:LYS:HB2	2.13	0.47
1:J:170:VAL:O	1:J:173:LYS:N	2.48	0.47
1:K:122:LYS:O	1:K:303:LYS:NZ	2.38	0.47
1:K:604:ASN:ND2	1:K:928:VAL:HB	2.29	0.47
1:L:212:ASP:OD2	1:M:209:SER:CB	2.57	0.47
1:M:376:PRO:HG3	1:M:473:HIS:CD2	2.49	0.47
1:M:383:THR:O	1:M:386:LEU:HB3	2.14	0.47
1:N:441:ARG:O	1:N:445:ASP:HB3	2.14	0.47
1:N:602:ILE:HD12	1:N:900:GLU:HG2	1.97	0.47
1:O:441:ARG:O	1:O:445:ASP:HB3	2.14	0.47
1:O:510:ALA:HB1	1:O:515:LEU:HA	1.96	0.47
1:O:537:ARG:HA	1:O:540:ASN:HB2	1.97	0.47
1:O:654:ILE:HG22	1:O:670:HIS:HD2	1.78	0.47
1:P:331:ILE:HG21	1:P:338:TRP:HB2	1.97	0.47
1:P:441:ARG:O	1:P:445:ASP:HB3	2.14	0.47
1:P:537:ARG:HA	1:P:540:ASN:HB2	1.97	0.47
1:P:875:LEU:CD2	1:P:911:PHE:CE2	2.97	0.47
1:A:198:LYS:HZ1	1:B:222:HIS:CG	2.32	0.47
1:A:336:ALA:C	1:A:338:TRP:H	2.17	0.47
1:A:447:TYR:CG	1:A:447:TYR:O	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:615:TYR:CD1	1:A:622:LEU:HD13	2.50	0.47
1:A:636:SER:O	1:A:637:LEU:O	2.31	0.47
1:B:1074:HIS:O	1:B:1075:SER:OG	2.33	0.47
1:C:170:VAL:O	1:C:173:LYS:N	2.48	0.47
1:D:253:TRP:CZ3	1:D:264:LEU:HD11	2.49	0.47
1:D:483:ARG:O	1:D:486:LEU:N	2.48	0.47
1:E:209:SER:OG	1:F:212:ASP:CG	2.48	0.47
1:F:170:VAL:O	1:F:173:LYS:N	2.48	0.47
1:F:441:ARG:O	1:F:445:ASP:HB3	2.14	0.47
1:F:478:ILE:HG22	1:F:479:GLU:N	2.30	0.47
1:G:117:ASN:O	1:G:118:GLN:C	2.53	0.47
1:G:117:ASN:O	1:G:119:VAL:N	2.47	0.47
1:G:331:ILE:HG21	1:G:338:TRP:HB2	1.97	0.47
1:G:483:ARG:O	1:G:486:LEU:N	2.48	0.47
1:G:875:LEU:CD2	1:G:911:PHE:CE2	2.97	0.47
1:H:441:ARG:O	1:H:445:ASP:HB3	2.14	0.47
1:I:365:TYR:OH	1:I:404:LYS:HG2	2.15	0.47
1:I:615:TYR:CD1	1:I:622:LEU:HD13	2.50	0.47
1:K:331:ILE:HG21	1:K:338:TRP:HB2	1.97	0.47
1:L:510:ALA:HB1	1:L:515:LEU:HA	1.96	0.47
1:L:523:PHE:HD1	1:L:527:TYR:CE2	2.28	0.47
1:L:875:LEU:CD2	1:L:911:PHE:CE2	2.97	0.47
1:N:1074:HIS:O	1:N:1075:SER:OG	2.33	0.47
1:N:443:ILE:HG21	1:N:477:ASN:ND2	2.24	0.47
1:N:615:TYR:CD1	1:N:622:LEU:HD13	2.50	0.47
1:N:604:ASN:ND2	1:N:929:VAL:H	2.04	0.47
1:O:447:TYR:CG	1:O:447:TYR:O	2.67	0.47
1:O:615:TYR:CD1	1:O:622:LEU:HD13	2.50	0.47
1:P:117:ASN:O	1:P:119:VAL:N	2.48	0.47
1:P:483:ARG:O	1:P:486:LEU:N	2.48	0.47
1:A:510:ALA:HB1	1:A:515:LEU:HA	1.96	0.47
1:B:604:ASN:ND2	1:B:928:VAL:HB	2.29	0.47
1:C:1074:HIS:O	1:C:1075:SER:OG	2.33	0.47
1:C:615:TYR:CD1	1:C:622:LEU:HD13	2.50	0.47
1:E:331:ILE:HG21	1:E:338:TRP:HB2	1.97	0.47
1:E:615:TYR:CD1	1:E:622:LEU:HD13	2.50	0.47
1:F:293:THR:O	1:F:296:GLU:N	2.40	0.47
1:F:317:LEU:C	1:F:318:THR:HG1	1.95	0.47
1:F:331:ILE:HG21	1:F:338:TRP:HB2	1.97	0.47
1:F:641:ASP:OD1	1:F:642:THR:N	2.45	0.47
1:G:1075:SER:OG	1:G:1094:ASP:O	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:483:ARG:O	1:H:486:LEU:N	2.47	0.47
1:H:615:TYR:CD1	1:H:622:LEU:HD13	2.50	0.47
1:H:654:ILE:HG22	1:H:670:HIS:HD2	1.79	0.47
1:I:170:VAL:O	1:I:173:LYS:N	2.48	0.47
1:I:336:ALA:C	1:I:338:TRP:H	2.18	0.47
1:J:331:ILE:HG21	1:J:338:TRP:HB2	1.97	0.47
1:J:383:THR:O	1:J:386:LEU:HB3	2.14	0.47
1:J:615:TYR:CD1	1:J:622:LEU:HD13	2.50	0.47
1:K:253:TRP:CZ3	1:K:264:LEU:HD11	2.49	0.47
1:K:483:ARG:O	1:K:486:LEU:N	2.48	0.47
1:L:117:ASN:O	1:L:119:VAL:N	2.47	0.47
1:L:434:GLU:C	1:L:436:GLU:H	2.18	0.47
1:L:615:TYR:CD1	1:L:622:LEU:HD13	2.50	0.47
1:M:1074:HIS:O	1:M:1075:SER:OG	2.33	0.47
1:M:458:LEU:HA	1:M:587:ARG:HH21	1.80	0.47
1:N:247:VAL:HG21	1:N:264:LEU:HD22	1.96	0.47
1:N:336:ALA:C	1:N:338:TRP:H	2.18	0.47
1:N:447:TYR:O	1:N:447:TYR:CG	2.67	0.47
1:O:483:ARG:O	1:O:486:LEU:N	2.48	0.47
1:O:90:SER:OG	1:O:91:PRO:HD3	2.14	0.47
1:P:1075:SER:OG	1:P:1094:ASP:O	2.29	0.47
1:P:117:ASN:O	1:P:118:GLN:C	2.53	0.47
1:A:1074:HIS:O	1:A:1075:SER:OG	2.33	0.47
1:A:180:TRP:O	1:A:181:LEU:HD12	2.14	0.47
1:A:247:VAL:HG21	1:A:264:LEU:HD22	1.96	0.47
1:B:434:GLU:C	1:B:436:GLU:H	2.18	0.47
1:B:483:ARG:O	1:B:486:LEU:N	2.48	0.47
1:C:371:ARG:HB3	1:C:389:ILE:CG2	2.45	0.47
1:D:293:THR:HG22	1:D:295:ASP:H	1.80	0.47
1:D:331:ILE:HG21	1:D:338:TRP:HB2	1.97	0.47
1:D:453:PHE:CE2	1:D:460:PRO:HB3	2.49	0.47
1:E:293:THR:HG22	1:E:295:ASP:H	1.80	0.47
1:G:496:PHE:HE2	1:G:555:CYS:HG	1.61	0.47
1:H:331:ILE:HG21	1:H:338:TRP:HB2	1.97	0.47
1:I:301:LEU:CD2	1:I:313:PRO:CG	2.87	0.47
1:J:117:ASN:O	1:J:118:GLN:C	2.53	0.47
1:J:554:ILE:O	1:J:556:SER:N	2.46	0.47
1:K:117:ASN:O	1:K:119:VAL:N	2.48	0.47
1:K:293:THR:HG22	1:K:295:ASP:H	1.80	0.47
1:K:434:GLU:C	1:K:436:GLU:H	2.18	0.47
1:M:483:ARG:O	1:M:486:LEU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:604:ASN:ND2	1:M:928:VAL:HB	2.29	0.47
1:N:478:ILE:HG22	1:N:479:GLU:N	2.30	0.47
1:N:483:ARG:O	1:N:486:LEU:N	2.48	0.47
1:N:510:ALA:HB1	1:N:515:LEU:HA	1.96	0.47
1:N:636:SER:O	1:N:637:LEU:O	2.31	0.47
1:O:331:ILE:HG21	1:O:338:TRP:HB2	1.97	0.47
1:P:346:CYS:O	1:P:350:THR:N	2.25	0.47
1:P:496:PHE:HE2	1:P:555:CYS:HG	1.61	0.47
1:A:293:THR:O	1:A:296:GLU:N	2.40	0.47
1:A:478:ILE:HG22	1:A:479:GLU:N	2.30	0.47
1:A:483:ARG:O	1:A:486:LEU:N	2.48	0.47
1:B:117:ASN:O	1:B:118:GLN:C	2.53	0.47
1:B:811:ASP:OD1	1:B:812:THR:N	2.46	0.47
1:C:122:LYS:HG3	1:D:276:SER:CB	2.45	0.47
1:C:443:ILE:HG21	1:C:477:ASN:ND2	2.24	0.47
1:C:451:LYS:CD	1:C:486:LEU:HD21	2.33	0.47
1:D:365:TYR:OH	1:D:404:LYS:HG2	2.15	0.47
1:D:383:THR:O	1:D:386:LEU:HB3	2.14	0.47
1:D:443:ILE:HG21	1:D:477:ASN:ND2	2.24	0.47
1:D:463:LEU:HD22	1:D:467:PHE:HD2	1.74	0.47
1:D:478:ILE:HG22	1:D:479:GLU:N	2.30	0.47
1:D:54:ALA:O	1:D:58:THR:N	2.48	0.47
1:D:811:ASP:OD1	1:D:812:THR:N	2.46	0.47
1:E:117:ASN:O	1:E:118:GLN:C	2.53	0.47
1:E:253:TRP:CZ3	1:E:264:LEU:HD11	2.49	0.47
1:F:336:ALA:C	1:F:338:TRP:H	2.18	0.47
1:F:447:TYR:CG	1:F:447:TYR:O	2.67	0.47
1:F:552:ASN:HB3	1:F:1226:TYR:CE1	2.48	0.47
1:I:331:ILE:HG21	1:I:338:TRP:HB2	1.97	0.47
1:I:441:ARG:O	1:I:445:ASP:HB3	2.14	0.47
1:I:447:TYR:O	1:I:447:TYR:CG	2.67	0.47
1:I:508:TRP:O	1:I:606:GLY:CA	2.63	0.47
1:J:293:THR:HG22	1:J:295:ASP:H	1.80	0.47
1:K:453:PHE:CE2	1:K:460:PRO:HB3	2.49	0.47
1:K:478:ILE:HG22	1:K:479:GLU:N	2.29	0.47
1:K:54:ALA:O	1:K:58:THR:N	2.48	0.47
1:K:64:THR:O	1:K:67:SER:OG	2.27	0.47
1:L:331:ILE:HG21	1:L:338:TRP:HB2	1.97	0.47
1:L:371:ARG:HB3	1:L:389:ILE:CG2	2.45	0.47
1:L:376:PRO:HG3	1:L:473:HIS:CD2	2.49	0.47
1:L:811:ASP:OD1	1:L:812:THR:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:434:GLU:C	1:M:436:GLU:H	2.18	0.47
1:M:510:ALA:HB1	1:M:515:LEU:HA	1.96	0.47
1:N:180:TRP:O	1:N:181:LEU:HD12	2.14	0.47
1:N:293:THR:O	1:N:296:GLU:N	2.40	0.47
1:O:117:ASN:O	1:O:119:VAL:N	2.47	0.47
1:A:117:ASN:O	1:A:118:GLN:C	2.53	0.46
1:A:811:ASP:OD1	1:A:812:THR:N	2.46	0.46
1:B:510:ALA:HB1	1:B:515:LEU:HA	1.96	0.46
1:B:458:LEU:HA	1:B:587:ARG:HH21	1.80	0.46
1:C:875:LEU:CD2	1:C:911:PHE:CE2	2.97	0.46
1:D:64:THR:O	1:D:67:SER:OG	2.27	0.46
1:E:201:TYR:CZ	1:F:223:SER:OG	2.65	0.46
1:E:358:ASN:HA	1:E:366:ARG:NH2	2.31	0.46
1:F:1192:SER:OG	1:F:1208:GLU:OE2	2.28	0.46
1:F:314:ARG:C	1:F:315:GLU:CG	2.81	0.46
1:H:117:ASN:O	1:H:119:VAL:N	2.48	0.46
1:H:462:TYR:OH	1:H:494:PHE:CZ	2.66	0.46
1:I:117:ASN:O	1:I:119:VAL:N	2.47	0.46
1:K:383:THR:O	1:K:386:LEU:HB3	2.14	0.46
1:K:638:GLU:OE1	1:K:640:GLU:N	2.42	0.46
1:K:811:ASP:OD1	1:K:812:THR:N	2.46	0.46
1:L:1074:HIS:O	1:L:1075:SER:OG	2.33	0.46
1:M:117:ASN:O	1:M:118:GLN:C	2.53	0.46
1:N:811:ASP:OD1	1:N:812:THR:N	2.46	0.46
1:O:365:TYR:OH	1:O:404:LYS:HG2	2.15	0.46
1:O:462:TYR:OH	1:O:494:PHE:CZ	2.66	0.46
1:O:502:ARG:HD3	1:O:516:ASN:HA	1.96	0.46
1:P:247:VAL:HG21	1:P:264:LEU:HD22	1.96	0.46
1:P:376:PRO:HG3	1:P:473:HIS:CD2	2.49	0.46
1:P:434:GLU:C	1:P:436:GLU:H	2.18	0.46
1:A:293:THR:HG22	1:A:295:ASP:H	1.80	0.46
1:A:331:ILE:HG21	1:A:338:TRP:HB2	1.97	0.46
1:A:537:ARG:HA	1:A:540:ASN:HB2	1.97	0.46
1:A:458:LEU:HA	1:A:587:ARG:HH21	1.80	0.46
1:A:122:LYS:HG3	1:B:276:SER:CB	2.44	0.46
1:B:336:ALA:C	1:B:338:TRP:H	2.17	0.46
1:C:376:PRO:HG3	1:C:473:HIS:CD2	2.49	0.46
1:C:462:TYR:OH	1:C:494:PHE:CZ	2.66	0.46
1:C:510:ALA:HB1	1:C:515:LEU:HA	1.96	0.46
1:D:336:ALA:C	1:D:338:TRP:H	2.18	0.46
1:D:543:LEU:O	1:D:547:PRO:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:615:TYR:CD1	1:D:622:LEU:HD13	2.50	0.46
1:D:638:GLU:OE1	1:D:640:GLU:N	2.42	0.46
1:E:502:ARG:HD3	1:E:516:ASN:HA	1.96	0.46
1:F:508:TRP:O	1:F:606:GLY:CA	2.63	0.46
1:F:543:LEU:O	1:F:547:PRO:HD2	2.16	0.46
1:G:247:VAL:HG21	1:G:264:LEU:HD22	1.96	0.46
1:G:365:TYR:OH	1:G:404:LYS:HG2	2.15	0.46
1:G:447:TYR:O	1:G:447:TYR:CG	2.67	0.46
1:H:251:APK:H2'	1:H:251:APK:H8	1.74	0.46
1:H:365:TYR:OH	1:H:404:LYS:HG2	2.15	0.46
1:H:604:ASN:ND2	1:H:928:VAL:HB	2.29	0.46
1:I:293:THR:O	1:I:296:GLU:N	2.40	0.46
1:I:602:ILE:HD12	1:I:900:GLU:HG2	1.97	0.46
1:J:253:TRP:CZ3	1:J:264:LEU:HD11	2.49	0.46
1:J:352:ILE:O	1:J:356:SER:OG	2.29	0.46
1:K:336:ALA:C	1:K:338:TRP:H	2.17	0.46
1:K:463:LEU:HD22	1:K:467:PHE:HD2	1.74	0.46
1:K:615:TYR:CD1	1:K:622:LEU:HD13	2.50	0.46
1:L:537:ARG:HA	1:L:540:ASN:HB2	1.97	0.46
1:M:811:ASP:OD1	1:M:812:THR:N	2.47	0.46
1:N:117:ASN:O	1:N:118:GLN:C	2.53	0.46
1:N:293:THR:HG22	1:N:295:ASP:H	1.80	0.46
1:N:537:ARG:HA	1:N:540:ASN:HB2	1.97	0.46
1:N:458:LEU:HA	1:N:587:ARG:HH21	1.80	0.46
1:O:1074:HIS:O	1:O:1075:SER:OG	2.33	0.46
1:O:1201:THR:OG1	1:O:1202:MET:N	2.48	0.46
1:O:336:ALA:C	1:O:338:TRP:H	2.17	0.46
1:O:496:PHE:HE2	1:O:555:CYS:HG	1.61	0.46
1:P:447:TYR:O	1:P:447:TYR:CG	2.67	0.46
1:P:478:ILE:HG22	1:P:479:GLU:N	2.29	0.46
1:P:508:TRP:O	1:P:606:GLY:CA	2.63	0.46
1:A:133:LYS:O	1:A:136:GLN:HB3	2.16	0.46
1:B:502:ARG:HD3	1:B:516:ASN:HA	1.96	0.46
1:C:331:ILE:HG21	1:C:338:TRP:HB2	1.97	0.46
1:C:54:ALA:O	1:C:58:THR:N	2.48	0.46
1:C:811:ASP:OD1	1:C:812:THR:N	2.46	0.46
1:D:537:ARG:HA	1:D:540:ASN:HB2	1.97	0.46
1:E:225:GLN:HG3	1:E:258:LEU:HD22	1.98	0.46
1:E:376:PRO:HG3	1:E:473:HIS:CD2	2.49	0.46
1:E:811:ASP:OD1	1:E:812:THR:N	2.46	0.46
1:F:537:ARG:HA	1:F:540:ASN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:602:ILE:HD12	1:F:900:GLU:HG2	1.96	0.46
1:G:133:LYS:O	1:G:136:GLN:HB3	2.16	0.46
1:G:376:PRO:HG3	1:G:473:HIS:CD2	2.50	0.46
1:G:434:GLU:C	1:G:436:GLU:H	2.18	0.46
1:G:508:TRP:O	1:G:606:GLY:CA	2.63	0.46
1:G:811:ASP:OD1	1:G:812:THR:N	2.47	0.46
1:H:1074:HIS:O	1:H:1075:SER:OG	2.33	0.46
1:H:336:ALA:C	1:H:338:TRP:H	2.17	0.46
1:H:502:ARG:HD3	1:H:516:ASN:HA	1.96	0.46
1:I:434:GLU:C	1:I:436:GLU:H	2.18	0.46
1:I:543:LEU:O	1:I:547:PRO:HD2	2.16	0.46
1:I:552:ASN:HB3	1:I:1226:TYR:CE1	2.48	0.46
1:J:358:ASN:HA	1:J:366:ARG:NH2	2.31	0.46
1:K:365:TYR:OH	1:K:404:LYS:HG2	2.15	0.46
1:K:443:ILE:HG21	1:K:477:ASN:ND2	2.24	0.46
1:K:537:ARG:HA	1:K:540:ASN:HB2	1.97	0.46
1:K:543:LEU:O	1:K:547:PRO:HD2	2.16	0.46
1:L:443:ILE:HG21	1:L:477:ASN:ND2	2.24	0.46
1:L:54:ALA:O	1:L:58:THR:N	2.48	0.46
1:M:336:ALA:C	1:M:338:TRP:H	2.17	0.46
1:M:331:ILE:HG21	1:M:338:TRP:HB2	1.97	0.46
1:M:443:ILE:HG21	1:M:477:ASN:ND2	2.24	0.46
1:N:331:ILE:HG21	1:N:338:TRP:HB2	1.97	0.46
1:O:602:ILE:HD12	1:O:900:GLU:HG2	1.97	0.46
1:O:604:ASN:ND2	1:O:928:VAL:HB	2.29	0.46
1:P:133:LYS:O	1:P:136:GLN:HB3	2.16	0.46
1:P:170:VAL:O	1:P:173:LYS:N	2.48	0.46
1:P:365:TYR:OH	1:P:404:LYS:HG2	2.15	0.46
1:P:811:ASP:OD1	1:P:812:THR:N	2.46	0.46
1:A:543:LEU:O	1:A:547:PRO:HD2	2.16	0.46
1:B:331:ILE:HG21	1:B:338:TRP:HB2	1.97	0.46
1:C:336:ALA:C	1:C:338:TRP:H	2.18	0.46
1:C:537:ARG:HA	1:C:540:ASN:HB2	1.97	0.46
1:D:198:LYS:NZ	1:E:222:HIS:CG	2.83	0.46
1:E:352:ILE:O	1:E:356:SER:OG	2.29	0.46
1:F:133:LYS:O	1:F:136:GLN:HB3	2.16	0.46
1:F:301:LEU:CD2	1:F:313:PRO:CG	2.87	0.46
1:F:358:ASN:HA	1:F:366:ARG:NH2	2.31	0.46
1:G:170:VAL:O	1:G:173:LYS:N	2.48	0.46
1:G:293:THR:HG22	1:G:295:ASP:H	1.80	0.46
1:G:478:ILE:HG22	1:G:479:GLU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:511:SER:C	1:G:513:SER:N	2.61	0.46
1:H:1201:THR:OG1	1:H:1202:MET:N	2.48	0.46
1:H:180:TRP:O	1:H:181:LEU:HD12	2.14	0.46
1:I:133:LYS:O	1:I:136:GLN:HB3	2.16	0.46
1:I:537:ARG:HA	1:I:540:ASN:HB2	1.97	0.46
1:J:301:LEU:CD2	1:J:313:PRO:CG	2.87	0.46
1:J:376:PRO:HG3	1:J:473:HIS:CD2	2.49	0.46
1:J:502:ARG:HD3	1:J:516:ASN:HA	1.96	0.46
1:J:638:GLU:OE1	1:J:640:GLU:N	2.42	0.46
1:K:301:LEU:CD2	1:K:313:PRO:CG	2.87	0.46
1:K:392:ASP:OD1	1:K:393:VAL:N	2.47	0.46
1:K:554:ILE:O	1:K:556:SER:N	2.45	0.46
1:L:358:ASN:HA	1:L:366:ARG:NH2	2.31	0.46
1:N:133:LYS:O	1:N:136:GLN:HB3	2.16	0.46
1:N:222:HIS:CG	1:O:198:LYS:NZ	2.84	0.46
1:N:543:LEU:O	1:N:547:PRO:HD2	2.16	0.46
1:O:180:TRP:O	1:O:181:LEU:HD12	2.14	0.46
1:P:293:THR:HG22	1:P:295:ASP:H	1.80	0.46
1:P:336:ALA:C	1:P:338:TRP:H	2.17	0.46
1:C:207:TRP:CH2	1:C:209:SER:HA	2.51	0.46
1:C:458:LEU:HA	1:C:587:ARG:HH21	1.80	0.46
1:D:358:ASN:HA	1:D:366:ARG:NH2	2.31	0.46
1:D:392:ASP:OD1	1:D:393:VAL:N	2.47	0.46
1:D:554:ILE:O	1:D:556:SER:N	2.45	0.46
1:E:180:TRP:C	1:E:181:LEU:HD12	2.36	0.46
1:E:336:ALA:C	1:E:338:TRP:H	2.18	0.46
1:E:638:GLU:OE1	1:E:640:GLU:N	2.42	0.46
1:F:117:ASN:O	1:F:119:VAL:N	2.47	0.46
1:F:371:ARG:HB3	1:F:389:ILE:CG2	2.45	0.46
1:G:336:ALA:C	1:G:338:TRP:H	2.17	0.46
1:G:358:ASN:HA	1:G:366:ARG:NH2	2.31	0.46
1:G:371:ARG:HB3	1:G:389:ILE:CG2	2.45	0.46
1:H:207:TRP:CH2	1:H:209:SER:HA	2.51	0.46
1:H:458:LEU:CG	1:H:587:ARG:NH2	2.74	0.46
1:I:127:ARG:HD3	1:I:292:LEU:HD12	1.98	0.46
1:I:451:LYS:CD	1:I:486:LEU:HD21	2.33	0.46
1:J:225:GLN:HG3	1:J:258:LEU:HD22	1.98	0.46
1:J:392:ASP:OD1	1:J:393:VAL:N	2.47	0.46
1:J:365:TYR:OH	1:J:404:LYS:HG2	2.15	0.46
1:J:811:ASP:OD1	1:J:812:THR:N	2.46	0.46
1:K:225:GLN:HG3	1:K:258:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:358:ASN:HA	1:K:366:ARG:NH2	2.31	0.46
1:L:207:TRP:CH2	1:L:209:SER:HA	2.51	0.46
1:L:398:VAL:HG23	1:L:399:MET:N	2.28	0.46
1:M:502:ARG:HD3	1:M:516:ASN:HA	1.96	0.46
1:N:1201:THR:OG1	1:N:1202:MET:N	2.48	0.46
1:N:170:VAL:O	1:N:173:LYS:N	2.48	0.46
1:O:508:TRP:O	1:O:606:GLY:CA	2.63	0.46
1:P:180:TRP:O	1:P:181:LEU:HD12	2.14	0.46
1:P:361:GLU:HB2	1:P:364:GLU:HB3	1.98	0.46
1:P:371:ARG:HB3	1:P:389:ILE:CG2	2.45	0.46
1:A:170:VAL:O	1:A:173:LYS:N	2.48	0.46
1:A:371:ARG:HB3	1:A:389:ILE:CG2	2.45	0.46
1:C:293:THR:HG22	1:C:295:ASP:H	1.80	0.46
1:C:866:LYS:HE2	1:C:872:ARG:HH11	1.81	0.46
1:D:1059:ASP:HB3	1:D:1071:ALA:HB3	1.98	0.46
1:D:225:GLN:HG3	1:D:258:LEU:HD22	1.98	0.46
1:E:1074:HIS:O	1:E:1075:SER:OG	2.33	0.46
1:E:301:LEU:CD2	1:E:313:PRO:CG	2.87	0.46
1:E:365:TYR:OH	1:E:404:LYS:HG2	2.15	0.46
1:F:127:ARG:HD3	1:F:292:LEU:HD12	1.98	0.46
1:G:1074:HIS:O	1:G:1075:SER:OG	2.33	0.46
1:G:180:TRP:O	1:G:181:LEU:HD12	2.14	0.46
1:G:361:GLU:HB2	1:G:364:GLU:HB3	1.98	0.46
1:H:1036:VAL:HG12	1:H:1037:ASP:N	2.31	0.46
1:H:170:VAL:O	1:H:173:LYS:N	2.48	0.46
1:H:602:ILE:HD12	1:H:900:GLU:HG2	1.97	0.46
1:I:358:ASN:HA	1:I:366:ARG:NH2	2.31	0.46
1:I:641:ASP:OD1	1:I:642:THR:N	2.45	0.46
1:I:80:VAL:HA	1:I:83:ILE:HD12	1.98	0.46
1:J:1074:HIS:O	1:J:1075:SER:OG	2.33	0.46
1:J:180:TRP:C	1:J:181:LEU:HD12	2.36	0.46
1:J:317:LEU:O	1:J:318:THR:CB	2.61	0.46
1:J:336:ALA:C	1:J:338:TRP:H	2.18	0.46
1:J:462:TYR:OH	1:J:494:PHE:CZ	2.66	0.46
1:L:130:PRO:HA	1:L:290:MET:HE3	1.96	0.46
1:L:293:THR:HG22	1:L:295:ASP:H	1.80	0.46
1:L:866:LYS:HE2	1:L:872:ARG:HH11	1.81	0.46
1:O:117:ASN:O	1:O:118:GLN:C	2.53	0.46
1:O:207:TRP:CH2	1:O:209:SER:HA	2.51	0.46
1:A:1201:THR:OG1	1:A:1202:MET:N	2.48	0.46
1:B:1059:ASP:HB3	1:B:1071:ALA:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:543:LEU:O	1:B:547:PRO:HD2	2.16	0.46
1:C:641:ASP:OD1	1:C:642:THR:N	2.45	0.46
1:D:1074:HIS:O	1:D:1075:SER:OG	2.33	0.46
1:D:133:LYS:O	1:D:136:GLN:HB3	2.16	0.46
1:D:301:LEU:CD2	1:D:313:PRO:CG	2.87	0.46
1:D:602:ILE:HD12	1:D:900:GLU:HG2	1.97	0.46
1:E:371:ARG:HB3	1:E:389:ILE:CG2	2.45	0.46
1:E:392:ASP:OD1	1:E:393:VAL:N	2.47	0.46
1:F:458:LEU:HA	1:F:587:ARG:HH21	1.80	0.46
1:G:80:VAL:HA	1:G:83:ILE:HD12	1.98	0.46
1:H:371:ARG:HB3	1:H:389:ILE:CG2	2.45	0.46
1:H:508:TRP:O	1:H:606:GLY:CA	2.63	0.46
1:I:371:ARG:HB3	1:I:389:ILE:CG2	2.45	0.46
1:I:85:TYR:HB2	1:I:87:PHE:CE2	2.51	0.46
1:J:1036:VAL:HG12	1:J:1037:ASP:N	2.31	0.46
1:J:322:ARG:C	1:J:324:LEU:H	2.19	0.46
1:J:537:ARG:HA	1:J:540:ASN:HB2	1.97	0.46
1:K:133:LYS:O	1:K:136:GLN:HB3	2.16	0.46
1:K:602:ILE:HD12	1:K:900:GLU:HG2	1.97	0.46
1:L:336:ALA:C	1:L:338:TRP:H	2.17	0.46
1:L:458:LEU:HA	1:L:587:ARG:HH21	1.80	0.46
1:M:1059:ASP:HB3	1:M:1071:ALA:HB3	1.98	0.46
1:N:371:ARG:HB3	1:N:389:ILE:CG2	2.45	0.46
1:O:1036:VAL:HG12	1:O:1037:ASP:N	2.31	0.46
1:O:170:VAL:O	1:O:173:LYS:N	2.48	0.46
1:O:371:ARG:HB3	1:O:389:ILE:CG2	2.45	0.46
1:O:398:VAL:HG23	1:O:399:MET:N	2.28	0.46
1:P:1074:HIS:O	1:P:1075:SER:OG	2.33	0.46
1:P:358:ASN:HA	1:P:366:ARG:NH2	2.31	0.46
1:A:1059:ASP:HB3	1:A:1071:ALA:HB3	1.98	0.46
1:A:207:TRP:CH2	1:A:209:SER:HA	2.51	0.46
1:B:537:ARG:HA	1:B:540:ASN:HB2	1.97	0.46
1:C:115:ASN:HB3	1:D:257:ASN:ND2	2.31	0.46
1:C:11:GLN:O	1:C:14:ASP:N	2.46	0.46
1:C:358:ASN:HA	1:C:366:ARG:NH2	2.31	0.46
1:D:170:VAL:O	1:D:173:LYS:N	2.48	0.46
1:D:146:ASN:HB2	1:D:280:THR:HG22	1.98	0.46
1:E:1036:VAL:HG12	1:E:1037:ASP:N	2.31	0.46
1:E:322:ARG:C	1:E:324:LEU:H	2.19	0.46
1:E:361:GLU:HB2	1:E:364:GLU:HB3	1.98	0.46
1:E:85:TYR:HB2	1:E:87:PHE:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:85:TYR:HB2	1:F:87:PHE:CE2	2.51	0.46
1:G:453:PHE:CE1	1:G:460:PRO:HB3	2.51	0.46
1:H:117:ASN:O	1:H:118:GLN:C	2.53	0.46
1:H:398:VAL:HG23	1:H:399:MET:N	2.28	0.46
1:H:543:LEU:O	1:H:547:PRO:HD2	2.16	0.46
1:I:1074:HIS:O	1:I:1075:SER:OG	2.33	0.46
1:J:1059:ASP:HB3	1:J:1071:ALA:HB3	1.98	0.46
1:J:54:ALA:O	1:J:58:THR:N	2.48	0.46
1:J:85:TYR:HB2	1:J:87:PHE:CE2	2.51	0.46
1:K:1059:ASP:HB3	1:K:1071:ALA:HB3	1.98	0.46
1:K:1074:HIS:O	1:K:1075:SER:OG	2.33	0.46
1:K:170:VAL:O	1:K:173:LYS:N	2.48	0.46
1:L:146:ASN:HB2	1:L:280:THR:HG22	1.98	0.46
1:L:451:LYS:CD	1:L:486:LEU:HD21	2.33	0.46
1:M:543:LEU:O	1:M:547:PRO:HD2	2.16	0.46
1:N:207:TRP:CH2	1:N:209:SER:HA	2.51	0.46
1:N:453:PHE:CE1	1:N:460:PRO:HB3	2.51	0.46
1:O:458:LEU:CG	1:O:587:ARG:NH2	2.74	0.46
1:P:225:GLN:HG3	1:P:258:LEU:HD22	1.98	0.46
1:P:317:LEU:O	1:P:318:THR:CB	2.61	0.46
1:P:511:SER:C	1:P:513:SER:N	2.60	0.46
1:P:543:LEU:O	1:P:547:PRO:HD2	2.16	0.46
1:A:453:PHE:CE1	1:A:460:PRO:HB3	2.51	0.46
1:A:656:ARG:HG2	1:A:657:MET:H	1.81	0.46
1:C:117:ASN:O	1:C:118:GLN:C	2.53	0.46
1:C:146:ASN:HB2	1:C:280:THR:HG22	1.98	0.46
1:C:130:PRO:HA	1:C:290:MET:HE3	1.96	0.46
1:C:398:VAL:HG23	1:C:399:MET:N	2.28	0.46
1:C:434:GLU:C	1:C:436:GLU:H	2.18	0.46
1:C:458:LEU:CG	1:C:587:ARG:NH2	2.74	0.46
1:C:85:TYR:HB2	1:C:87:PHE:CE2	2.51	0.46
1:D:1201:THR:OG1	1:D:1202:MET:N	2.48	0.46
1:D:85:TYR:HB2	1:D:87:PHE:CE2	2.51	0.46
1:E:146:ASN:HB2	1:E:280:THR:HG22	1.98	0.46
1:E:317:LEU:O	1:E:318:THR:CB	2.61	0.46
1:E:537:ARG:HA	1:E:540:ASN:HB2	1.97	0.46
1:E:54:ALA:O	1:E:58:THR:N	2.48	0.46
1:F:207:TRP:CH2	1:F:209:SER:HA	2.51	0.46
1:F:293:THR:HG22	1:F:295:ASP:H	1.81	0.46
1:F:434:GLU:C	1:F:436:GLU:H	2.18	0.46
1:F:80:VAL:HA	1:F:83:ILE:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:225:GLN:HG3	1:G:258:LEU:HD22	1.98	0.46
1:F:121:ALA:CB	1:G:276:SER:HB3	2.29	0.46
1:G:317:LEU:O	1:G:318:THR:CB	2.61	0.46
1:H:458:LEU:HA	1:H:587:ARG:HH21	1.80	0.46
1:I:293:THR:HG22	1:I:295:ASP:H	1.80	0.46
1:I:322:ARG:C	1:I:324:LEU:H	2.19	0.46
1:I:392:ASP:OD1	1:I:393:VAL:N	2.47	0.46
1:I:475:LEU:HA	1:I:478:ILE:HD12	1.98	0.46
1:J:146:ASN:HB2	1:J:280:THR:HG22	1.98	0.46
1:J:361:GLU:HB2	1:J:364:GLU:HB3	1.98	0.46
1:K:1201:THR:OG1	1:K:1202:MET:N	2.48	0.46
1:K:146:ASN:HB2	1:K:280:THR:HG22	1.98	0.46
1:K:633:THR:HG22	1:K:643:TYR:HA	1.97	0.46
1:K:85:TYR:HB2	1:K:87:PHE:CE2	2.51	0.46
1:L:458:LEU:HG	1:L:587:ARG:HH22	1.81	0.46
1:M:1177:TYR:HE2	1:N:916:LYS:HE2	1.81	0.46
1:M:602:ILE:HD12	1:M:900:GLU:HG2	1.97	0.46
1:N:1059:ASP:HB3	1:N:1071:ALA:HB3	1.98	0.46
1:N:554:ILE:O	1:N:556:SER:N	2.45	0.46
1:O:543:LEU:O	1:O:547:PRO:HD2	2.16	0.46
1:P:1036:VAL:HG12	1:P:1037:ASP:N	2.31	0.46
1:P:80:VAL:HA	1:P:83:ILE:HD12	1.98	0.46
1:A:475:LEU:HA	1:A:478:ILE:HD12	1.98	0.46
1:A:597:HIS:CD2	1:A:598:GLN:H	2.34	0.46
1:A:866:LYS:HE2	1:A:872:ARG:HH11	1.81	0.46
1:B:602:ILE:HD12	1:B:900:GLU:HG2	1.97	0.46
1:C:1059:ASP:HB3	1:C:1071:ALA:HB3	1.98	0.46
1:C:127:ARG:HD3	1:C:292:LEU:HD12	1.98	0.46
1:D:180:TRP:C	1:D:181:LEU:HD12	2.36	0.46
1:D:633:THR:HG22	1:D:643:TYR:HA	1.97	0.46
1:E:1059:ASP:HB3	1:E:1071:ALA:HB3	1.98	0.46
1:E:207:TRP:CH2	1:E:209:SER:HA	2.51	0.46
1:G:1036:VAL:HG12	1:G:1037:ASP:N	2.31	0.46
1:G:475:LEU:HA	1:G:478:ILE:HD12	1.98	0.46
1:G:543:LEU:O	1:G:547:PRO:HD2	2.16	0.46
1:H:361:GLU:HB2	1:H:364:GLU:HB3	1.98	0.46
1:J:523:PHE:HD1	1:J:527:TYR:CE2	2.28	0.46
1:J:656:ARG:HG2	1:J:657:MET:H	1.81	0.46
1:J:866:LYS:HE2	1:J:872:ARG:HH11	1.81	0.46
1:K:180:TRP:C	1:K:181:LEU:HD12	2.36	0.46
1:L:1036:VAL:HG12	1:L:1037:ASP:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1059:ASP:HB3	1:L:1071:ALA:HB3	1.98	0.46
1:L:554:ILE:O	1:L:556:SER:N	2.46	0.46
1:L:458:LEU:CG	1:L:587:ARG:NH2	2.74	0.46
1:L:85:TYR:HB2	1:L:87:PHE:CE2	2.51	0.46
1:M:207:TRP:CH2	1:M:209:SER:HA	2.51	0.46
1:M:537:ARG:HA	1:M:540:ASN:HB2	1.97	0.46
1:N:475:LEU:HA	1:N:478:ILE:HD12	1.98	0.46
1:P:231:LEU:O	1:P:234:SER:OG	2.26	0.46
1:A:491:PHE:CD1	1:A:491:PHE:N	2.83	0.45
1:A:85:TYR:HB2	1:A:87:PHE:CE2	2.51	0.45
1:B:207:TRP:CH2	1:B:209:SER:HA	2.51	0.45
1:B:352:ILE:O	1:B:356:SER:OG	2.29	0.45
1:B:656:ARG:HG2	1:B:657:MET:H	1.81	0.45
1:C:36:PRO:HG2	1:C:39:ILE:CG2	2.46	0.45
1:D:1036:VAL:HG12	1:D:1037:ASP:N	2.31	0.45
1:D:322:ARG:C	1:D:324:LEU:H	2.19	0.45
1:D:502:ARG:HD3	1:D:516:ASN:HA	1.96	0.45
1:E:36:PRO:HG2	1:E:39:ILE:CG2	2.46	0.45
1:E:552:ASN:HB3	1:E:1226:TYR:CE1	2.48	0.45
1:E:458:LEU:HA	1:E:587:ARG:HH21	1.80	0.45
1:E:656:ARG:HG2	1:E:657:MET:H	1.81	0.45
1:E:866:LYS:HE2	1:E:872:ARG:HH11	1.81	0.45
1:F:1074:HIS:O	1:F:1075:SER:OG	2.33	0.45
1:F:1201:THR:OG1	1:F:1202:MET:N	2.48	0.45
1:F:322:ARG:C	1:F:324:LEU:H	2.19	0.45
1:F:475:LEU:HA	1:F:478:ILE:HD12	1.99	0.45
1:H:597:HIS:CD2	1:H:598:GLN:H	2.34	0.45
1:H:841:PHE:O	1:H:842:LEU:HB2	2.16	0.45
1:H:604:ASN:ND2	1:H:929:VAL:H	2.04	0.45
1:I:1201:THR:OG1	1:I:1202:MET:N	2.48	0.45
1:I:207:TRP:CH2	1:I:209:SER:HA	2.51	0.45
1:I:231:LEU:O	1:I:234:SER:OG	2.26	0.45
1:I:453:PHE:CE1	1:I:460:PRO:HB3	2.51	0.45
1:I:502:ARG:HD3	1:I:516:ASN:HA	1.96	0.45
1:I:656:ARG:HG2	1:I:657:MET:H	1.81	0.45
1:I:91:PRO:O	1:I:94:THR:OG1	2.21	0.45
1:J:207:TRP:CH2	1:J:209:SER:HA	2.51	0.45
1:J:36:PRO:HG2	1:J:39:ILE:CG2	2.47	0.45
1:K:1036:VAL:HG12	1:K:1037:ASP:N	2.31	0.45
1:K:322:ARG:C	1:K:324:LEU:H	2.19	0.45
1:K:480:HIS:O	1:K:483:ARG:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:133:LYS:O	1:L:136:GLN:HB3	2.16	0.45
1:L:231:LEU:O	1:L:234:SER:OG	2.26	0.45
1:L:453:PHE:CE2	1:L:460:PRO:HB3	2.49	0.45
1:L:875:LEU:CD1	1:L:911:PHE:HD2	2.07	0.45
1:M:146:ASN:HB2	1:M:280:THR:HG22	1.98	0.45
1:M:352:ILE:O	1:M:356:SER:OG	2.29	0.45
1:M:358:ASN:HA	1:M:366:ARG:NH2	2.31	0.45
1:M:656:ARG:HG2	1:M:657:MET:H	1.81	0.45
1:M:222:HIS:CG	1:N:198:LYS:NZ	2.84	0.45
1:N:508:TRP:O	1:N:606:GLY:CA	2.63	0.45
1:N:597:HIS:CD2	1:N:598:GLN:H	2.34	0.45
1:N:656:ARG:HG2	1:N:657:MET:H	1.81	0.45
1:N:85:TYR:HB2	1:N:87:PHE:CE2	2.51	0.45
1:O:361:GLU:HB2	1:O:364:GLU:HB3	1.98	0.45
1:O:36:PRO:HG2	1:O:39:ILE:CG2	2.46	0.45
1:O:458:LEU:HA	1:O:587:ARG:HH21	1.80	0.45
1:O:597:HIS:CD2	1:O:598:GLN:H	2.34	0.45
1:O:80:VAL:HA	1:O:83:ILE:HD12	1.98	0.45
1:O:604:ASN:ND2	1:O:929:VAL:H	2.04	0.45
1:P:475:LEU:HA	1:P:478:ILE:HD12	1.98	0.45
1:P:64:THR:O	1:P:67:SER:OG	2.27	0.45
1:P:85:TYR:HB2	1:P:87:PHE:CE2	2.51	0.45
1:A:146:ASN:HB2	1:A:280:THR:HG22	1.98	0.45
1:A:36:PRO:HG2	1:A:39:ILE:CG2	2.46	0.45
1:A:508:TRP:O	1:A:606:GLY:CA	2.63	0.45
1:A:554:ILE:O	1:A:556:SER:N	2.46	0.45
1:B:1036:VAL:HG12	1:B:1037:ASP:N	2.31	0.45
1:B:358:ASN:HA	1:B:366:ARG:NH2	2.31	0.45
1:C:633:THR:HG22	1:C:643:TYR:HA	1.97	0.45
1:C:80:VAL:HA	1:C:83:ILE:HD12	1.98	0.45
1:D:557:LYS:CD	1:D:1223:GLN:HE21	2.30	0.45
1:D:458:LEU:HG	1:D:587:ARG:HH22	1.81	0.45
1:D:480:HIS:O	1:D:483:ARG:HG2	2.16	0.45
1:D:841:PHE:O	1:D:842:LEU:HB2	2.17	0.45
1:E:523:PHE:HD1	1:E:527:TYR:CE2	2.28	0.45
1:F:1036:VAL:HG12	1:F:1037:ASP:N	2.31	0.45
1:F:656:ARG:HG2	1:F:657:MET:H	1.81	0.45
1:F:604:ASN:ND2	1:F:929:VAL:H	2.03	0.45
1:G:127:ARG:HD3	1:G:292:LEU:HD12	1.98	0.45
1:G:597:HIS:CD2	1:G:598:GLN:H	2.34	0.45
1:G:633:THR:HG22	1:G:643:TYR:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:85:TYR:HB2	1:G:87:PHE:CE2	2.51	0.45
1:H:322:ARG:C	1:H:324:LEU:H	2.19	0.45
1:H:475:LEU:HA	1:H:478:ILE:HD12	1.98	0.45
1:I:811:ASP:OD1	1:I:812:THR:N	2.46	0.45
1:J:133:LYS:O	1:J:136:GLN:HB3	2.16	0.45
1:J:841:PHE:O	1:J:842:LEU:HB2	2.16	0.45
1:K:557:LYS:CD	1:K:1223:GLN:HE21	2.30	0.45
1:K:382:PRO:HA	1:K:419:THR:CG2	2.36	0.45
1:L:11:GLN:O	1:L:14:ASP:N	2.46	0.45
1:M:475:LEU:HA	1:M:478:ILE:HD12	1.98	0.45
1:M:597:HIS:CD2	1:M:598:GLN:H	2.34	0.45
1:M:866:LYS:HE2	1:M:872:ARG:HH11	1.81	0.45
1:N:146:ASN:HB2	1:N:280:THR:HG22	1.98	0.45
1:N:361:GLU:HB2	1:N:364:GLU:HB3	1.98	0.45
1:N:458:LEU:CG	1:N:587:ARG:NH2	2.74	0.45
1:N:866:LYS:HE2	1:N:872:ARG:HH11	1.81	0.45
1:O:389:ILE:CD1	1:O:446:HIS:HE2	2.14	0.45
1:O:475:LEU:HA	1:O:478:ILE:HD12	1.98	0.45
1:O:841:PHE:O	1:O:842:LEU:HB2	2.17	0.45
1:P:102:MET:O	1:P:105:MET:N	2.46	0.45
1:P:633:THR:HG22	1:P:643:TYR:HA	1.97	0.45
1:B:1035:TYR:HA	1:B:1057:PRO:HG2	1.99	0.45
1:B:127:ARG:HD3	1:B:292:LEU:HD12	1.98	0.45
1:B:146:ASN:HB2	1:B:280:THR:HG22	1.98	0.45
1:B:552:ASN:HB3	1:B:1226:TYR:CE1	2.48	0.45
1:B:597:HIS:CD2	1:B:598:GLN:H	2.34	0.45
1:B:866:LYS:HE2	1:B:872:ARG:HH11	1.81	0.45
1:C:1036:VAL:HG12	1:C:1037:ASP:N	2.31	0.45
1:C:557:LYS:NZ	1:C:1223:GLN:HG3	2.31	0.45
1:C:231:LEU:O	1:C:234:SER:OG	2.26	0.45
1:C:475:LEU:HA	1:C:478:ILE:HD12	1.98	0.45
1:D:207:TRP:CH2	1:D:209:SER:HA	2.51	0.45
1:E:133:LYS:O	1:E:136:GLN:HB3	2.16	0.45
1:E:480:HIS:O	1:E:483:ARG:HG2	2.16	0.45
1:F:146:ASN:HB2	1:F:280:THR:HG22	1.98	0.45
1:F:458:LEU:HG	1:F:587:ARG:HH22	1.81	0.45
1:F:597:HIS:CD2	1:F:598:GLN:H	2.34	0.45
1:G:180:TRP:C	1:G:181:LEU:HD12	2.36	0.45
1:G:231:LEU:O	1:G:234:SER:OG	2.26	0.45
1:H:1059:ASP:HB3	1:H:1071:ALA:HB3	1.98	0.45
1:H:127:ARG:HD3	1:H:292:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:225:GLN:HG3	1:H:258:LEU:HD22	1.98	0.45
1:H:36:PRO:HG2	1:H:39:ILE:CG2	2.47	0.45
1:H:389:ILE:CD1	1:H:446:HIS:HE2	2.14	0.45
1:H:491:PHE:N	1:H:491:PHE:CD1	2.83	0.45
1:H:80:VAL:HA	1:H:83:ILE:HD12	1.98	0.45
1:I:117:ASN:O	1:I:118:GLN:C	2.53	0.45
1:I:458:LEU:HG	1:I:587:ARG:HH22	1.81	0.45
1:J:475:LEU:HA	1:J:478:ILE:HD12	1.98	0.45
1:K:458:LEU:HG	1:K:587:ARG:HH22	1.81	0.45
1:K:841:PHE:O	1:K:842:LEU:HB2	2.17	0.45
1:L:557:LYS:NZ	1:L:1223:GLN:HG3	2.31	0.45
1:L:542:ILE:HA	1:L:545:PHE:HD2	1.82	0.45
1:L:633:THR:HG22	1:L:643:TYR:HA	1.97	0.45
1:M:1036:VAL:HG12	1:M:1037:ASP:N	2.31	0.45
1:M:127:ARG:HD3	1:M:292:LEU:HD12	1.98	0.45
1:M:322:ARG:C	1:M:324:LEU:H	2.19	0.45
1:M:542:ILE:HA	1:M:545:PHE:HD2	1.81	0.45
1:M:552:ASN:HB3	1:M:1226:TYR:CE1	2.48	0.45
1:N:1075:SER:OG	1:N:1094:ASP:O	2.29	0.45
1:N:491:PHE:CD1	1:N:491:PHE:N	2.83	0.45
1:O:127:ARG:HD3	1:O:292:LEU:HD12	1.98	0.45
1:O:293:THR:HG22	1:O:295:ASP:H	1.80	0.45
1:O:480:HIS:O	1:O:483:ARG:HG2	2.16	0.45
1:O:491:PHE:CD1	1:O:491:PHE:N	2.83	0.45
1:P:382:PRO:HA	1:P:419:THR:CG2	2.36	0.45
1:P:523:PHE:HD1	1:P:527:TYR:CE2	2.28	0.45
1:P:656:ARG:HG2	1:P:657:MET:H	1.81	0.45
1:P:841:PHE:O	1:P:842:LEU:HB2	2.17	0.45
1:A:458:LEU:CG	1:A:587:ARG:NH2	2.74	0.45
1:A:662:GLN:O	1:A:663:GLN:HG2	2.17	0.45
1:B:180:TRP:C	1:B:181:LEU:HD12	2.36	0.45
1:B:475:LEU:HA	1:B:478:ILE:HD12	1.98	0.45
1:B:542:ILE:HA	1:B:545:PHE:HD2	1.82	0.45
1:B:80:VAL:HA	1:B:83:ILE:HD12	1.98	0.45
1:B:85:TYR:HB2	1:B:87:PHE:CE2	2.51	0.45
1:B:898:VAL:HG13	1:B:930:HIS:CD2	2.52	0.45
1:C:133:LYS:O	1:C:136:GLN:HB3	2.16	0.45
1:C:453:PHE:CE2	1:C:460:PRO:HB3	2.49	0.45
1:C:508:TRP:O	1:C:606:GLY:CA	2.63	0.45
1:C:543:LEU:O	1:C:547:PRO:HD2	2.16	0.45
1:C:597:HIS:CD2	1:C:598:GLN:H	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:898:VAL:HG13	1:C:930:HIS:CD2	2.52	0.45
1:D:458:LEU:HA	1:D:587:ARG:HH21	1.80	0.45
1:D:866:LYS:HE2	1:D:872:ARG:HH11	1.81	0.45
1:E:1201:THR:OG1	1:E:1202:MET:N	2.48	0.45
1:E:597:HIS:CD2	1:E:598:GLN:H	2.34	0.45
1:E:80:VAL:HA	1:E:83:ILE:HD12	1.98	0.45
1:E:902:ILE:HD13	1:E:930:HIS:CE1	2.43	0.45
1:F:1075:SER:OG	1:F:1094:ASP:O	2.29	0.45
1:F:36:PRO:HG2	1:F:39:ILE:CG2	2.46	0.45
1:F:392:ASP:OD1	1:F:393:VAL:N	2.47	0.45
1:F:453:PHE:CE1	1:F:460:PRO:HB3	2.51	0.45
1:F:502:ARG:HD3	1:F:516:ASN:HA	1.96	0.45
1:F:811:ASP:OD1	1:F:812:THR:N	2.47	0.45
1:G:102:MET:O	1:G:105:MET:N	2.46	0.45
1:G:293:THR:O	1:G:296:GLU:N	2.40	0.45
1:H:557:LYS:NZ	1:H:1223:GLN:HG3	2.31	0.45
1:H:146:ASN:HB2	1:H:280:THR:HG22	1.98	0.45
1:H:293:THR:O	1:H:296:GLU:N	2.40	0.45
1:H:480:HIS:O	1:H:483:ARG:HG2	2.16	0.45
1:I:1036:VAL:HG12	1:I:1037:ASP:N	2.31	0.45
1:J:557:LYS:CD	1:J:1223:GLN:HE21	2.30	0.45
1:J:552:ASN:HB3	1:J:1226:TYR:CE1	2.48	0.45
1:J:80:VAL:HA	1:J:83:ILE:HD12	1.97	0.45
1:K:207:TRP:CH2	1:K:209:SER:HA	2.51	0.45
1:K:502:ARG:HD3	1:K:516:ASN:HA	1.96	0.45
1:L:117:ASN:O	1:L:118:GLN:C	2.53	0.45
1:L:557:LYS:CD	1:L:1223:GLN:HE21	2.30	0.45
1:L:36:PRO:HG2	1:L:39:ILE:CG2	2.47	0.45
1:L:508:TRP:O	1:L:606:GLY:CA	2.63	0.45
1:L:80:VAL:HA	1:L:83:ILE:HD12	1.97	0.45
1:L:898:VAL:HG13	1:L:930:HIS:CD2	2.52	0.45
1:M:376:PRO:HA	1:M:377:PRO:HD3	1.89	0.45
1:M:80:VAL:HA	1:M:83:ILE:HD12	1.98	0.45
1:M:898:VAL:HG13	1:M:930:HIS:CD2	2.52	0.45
1:N:1035:TYR:HA	1:N:1057:PRO:HG2	1.99	0.45
1:N:36:PRO:HG2	1:N:39:ILE:CG2	2.47	0.45
1:N:496:PHE:HE2	1:N:555:CYS:HG	1.64	0.45
1:N:662:GLN:O	1:N:663:GLN:HG2	2.17	0.45
1:O:1059:ASP:HB3	1:O:1071:ALA:HB3	1.98	0.45
1:O:225:GLN:HG3	1:O:258:LEU:HD22	1.98	0.45
1:O:523:PHE:HD1	1:O:527:TYR:CE2	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:127:ARG:HD3	1:P:292:LEU:HD12	1.98	0.45
1:P:180:TRP:C	1:P:181:LEU:HD12	2.36	0.45
1:P:293:THR:O	1:P:296:GLU:N	2.40	0.45
1:P:597:HIS:CD2	1:P:598:GLN:H	2.34	0.45
1:A:1075:SER:OG	1:A:1094:ASP:O	2.29	0.45
1:A:322:ARG:C	1:A:324:LEU:H	2.19	0.45
1:A:361:GLU:HB2	1:A:364:GLU:HB3	1.98	0.45
1:A:496:PHE:HE2	1:A:555:CYS:HG	1.64	0.45
1:B:557:LYS:NZ	1:B:1223:GLN:HG3	2.31	0.45
1:B:322:ARG:C	1:B:324:LEU:H	2.19	0.45
1:C:1035:TYR:HA	1:C:1057:PRO:HG2	1.99	0.45
1:C:511:SER:C	1:C:513:SER:N	2.61	0.45
1:C:542:ILE:HA	1:C:545:PHE:HD2	1.82	0.45
1:D:382:PRO:HA	1:D:419:THR:CG2	2.36	0.45
1:D:475:LEU:HA	1:D:478:ILE:HD12	1.98	0.45
1:D:508:TRP:O	1:D:606:GLY:CA	2.63	0.45
1:D:597:HIS:CD2	1:D:598:GLN:H	2.34	0.45
1:E:443:ILE:HG21	1:E:477:ASN:ND2	2.24	0.45
1:E:475:LEU:HA	1:E:478:ILE:HD12	1.99	0.45
1:E:543:LEU:O	1:E:547:PRO:HD2	2.16	0.45
1:E:557:LYS:CD	1:E:1223:GLN:HE21	2.30	0.45
1:E:841:PHE:O	1:E:842:LEU:HB2	2.17	0.45
1:F:91:PRO:O	1:F:94:THR:OG1	2.21	0.45
1:G:557:LYS:NZ	1:G:1223:GLN:HG3	2.31	0.45
1:G:584:PHE:HB3	1:G:585:ASP:H	1.61	0.45
1:G:656:ARG:HG2	1:G:657:MET:H	1.81	0.45
1:G:841:PHE:O	1:G:842:LEU:HB2	2.17	0.45
1:H:130:PRO:HA	1:H:290:MET:HE3	1.98	0.45
1:H:293:THR:HG22	1:H:295:ASP:H	1.80	0.45
1:I:146:ASN:HB2	1:I:280:THR:HG22	1.98	0.45
1:I:597:HIS:CD2	1:I:598:GLN:H	2.34	0.45
1:J:1201:THR:OG1	1:J:1202:MET:N	2.48	0.45
1:J:336:ALA:O	1:J:337:THR:OG1	2.35	0.45
1:J:597:HIS:CD2	1:J:598:GLN:H	2.34	0.45
1:K:11:GLN:O	1:K:14:ASP:N	2.46	0.45
1:K:371:ARG:HB3	1:K:389:ILE:CG2	2.45	0.45
1:K:597:HIS:CD2	1:K:598:GLN:H	2.34	0.45
1:K:656:ARG:HG2	1:K:657:MET:H	1.81	0.45
1:K:866:LYS:HE2	1:K:872:ARG:HH11	1.81	0.45
1:L:127:ARG:HD3	1:L:292:LEU:HD12	1.98	0.45
1:L:480:HIS:O	1:L:483:ARG:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:543:LEU:O	1:L:547:PRO:HD2	2.16	0.45
1:L:597:HIS:CD2	1:L:598:GLN:H	2.34	0.45
1:M:180:TRP:C	1:M:181:LEU:HD12	2.36	0.45
1:M:85:TYR:HB2	1:M:87:PHE:CE2	2.51	0.45
1:N:1036:VAL:HG12	1:N:1037:ASP:N	2.31	0.45
1:N:322:ARG:C	1:N:324:LEU:H	2.19	0.45
1:O:146:ASN:HB2	1:O:280:THR:HG22	1.98	0.45
1:O:293:THR:O	1:O:296:GLU:N	2.40	0.45
1:O:322:ARG:C	1:O:324:LEU:H	2.19	0.45
1:N:1177:TYR:HE2	1:O:916:LYS:HE2	1.81	0.45
1:P:557:LYS:NZ	1:P:1223:GLN:HG3	2.31	0.45
1:P:146:ASN:HB2	1:P:280:THR:HG22	1.98	0.45
1:P:604:ASN:ND2	1:P:929:VAL:H	2.04	0.45
1:A:1035:TYR:HA	1:A:1057:PRO:HG2	1.99	0.45
1:A:1036:VAL:HG12	1:A:1037:ASP:N	2.31	0.45
1:A:180:TRP:C	1:A:181:LEU:HD12	2.36	0.45
1:A:269:LYS:HB3	1:A:407:LYS:O	2.17	0.45
1:A:898:VAL:HG13	1:A:930:HIS:CD2	2.52	0.45
1:B:376:PRO:HA	1:B:377:PRO:HD3	1.89	0.45
1:B:641:ASP:OD1	1:B:642:THR:N	2.45	0.45
1:D:11:GLN:O	1:D:14:ASP:N	2.46	0.45
1:E:999:ALA:HA	1:E:1019:LYS:HA	1.98	0.45
1:E:336:ALA:O	1:E:337:THR:OG1	2.35	0.45
1:E:633:THR:HG22	1:E:643:TYR:HA	1.97	0.45
1:F:1059:ASP:HB3	1:F:1071:ALA:HB3	1.98	0.45
1:F:898:VAL:HG13	1:F:930:HIS:CD2	2.52	0.45
1:G:1035:TYR:HA	1:G:1057:PRO:HG2	1.99	0.45
1:G:1201:THR:OG1	1:G:1202:MET:N	2.48	0.45
1:G:146:ASN:HB2	1:G:280:THR:HG22	1.98	0.45
1:G:322:ARG:C	1:G:324:LEU:H	2.19	0.45
1:G:523:PHE:HD1	1:G:527:TYR:CE2	2.28	0.45
1:G:604:ASN:ND2	1:G:929:VAL:H	2.04	0.45
1:H:1035:TYR:HA	1:H:1057:PRO:HG2	1.99	0.45
1:H:133:LYS:O	1:H:136:GLN:HB3	2.16	0.45
1:H:180:TRP:C	1:H:181:LEU:HD12	2.36	0.45
1:H:898:VAL:HG13	1:H:930:HIS:CD2	2.52	0.45
1:I:1059:ASP:HB3	1:I:1071:ALA:HB3	1.98	0.45
1:I:1075:SER:OG	1:I:1094:ASP:O	2.29	0.45
1:I:225:GLN:HG3	1:I:258:LEU:HD22	1.98	0.45
1:I:317:LEU:C	1:I:318:THR:HG1	1.94	0.45
1:I:36:PRO:HG2	1:I:39:ILE:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:480:HIS:O	1:J:483:ARG:HG2	2.16	0.45
1:J:543:LEU:O	1:J:547:PRO:HD2	2.16	0.45
1:J:999:ALA:HA	1:J:1019:LYS:HA	1.98	0.45
1:K:117:ASN:O	1:K:118:GLN:C	2.53	0.45
1:K:475:LEU:HA	1:K:478:ILE:HD12	1.98	0.45
1:L:475:LEU:HA	1:L:478:ILE:HD12	1.98	0.45
1:L:511:SER:C	1:L:513:SER:N	2.60	0.45
1:M:1035:TYR:HA	1:M:1057:PRO:HG2	1.99	0.45
1:M:170:VAL:O	1:M:173:LYS:N	2.48	0.45
1:M:225:GLN:HG3	1:M:258:LEU:HD22	1.98	0.45
1:M:641:ASP:OD1	1:M:642:THR:N	2.45	0.45
1:N:457:ASP:OD2	1:N:458:LEU:HB2	2.17	0.45
1:N:898:VAL:HG13	1:N:930:HIS:CD2	2.52	0.45
1:O:1035:TYR:HA	1:O:1057:PRO:HG2	1.99	0.45
1:O:133:LYS:O	1:O:136:GLN:HB3	2.16	0.45
1:O:249:ASN:O	1:O:251:APK:O	2.35	0.45
1:O:898:VAL:HG13	1:O:930:HIS:CD2	2.52	0.45
1:P:1035:TYR:HA	1:P:1057:PRO:HG2	1.99	0.45
1:P:1201:THR:OG1	1:P:1202:MET:N	2.48	0.45
1:P:322:ARG:C	1:P:324:LEU:H	2.19	0.45
1:A:249:ASN:O	1:A:251:APK:O	2.35	0.45
1:A:225:GLN:HG3	1:A:258:LEU:HD22	1.98	0.45
1:A:457:ASP:OD2	1:A:458:LEU:HB2	2.17	0.45
1:A:480:HIS:O	1:A:483:ARG:HG2	2.16	0.45
1:A:782:CYS:HB3	1:A:816:LEU:HD13	1.99	0.45
1:B:170:VAL:O	1:B:173:LYS:N	2.48	0.45
1:B:225:GLN:HG3	1:B:258:LEU:HD22	1.98	0.45
1:B:480:HIS:O	1:B:483:ARG:HG2	2.16	0.45
1:B:508:TRP:O	1:B:606:GLY:CA	2.63	0.45
1:C:557:LYS:CD	1:C:1223:GLN:HE21	2.30	0.45
1:C:180:TRP:C	1:C:181:LEU:HD12	2.36	0.45
1:C:554:ILE:O	1:C:556:SER:N	2.45	0.45
1:D:117:ASN:O	1:D:118:GLN:C	2.53	0.45
1:D:557:LYS:NZ	1:D:1223:GLN:HG3	2.31	0.45
1:C:111:ASP:HB3	1:D:144:ALA:HB3	1.97	0.45
1:D:269:LYS:HB3	1:D:407:LYS:O	2.17	0.45
1:D:371:ARG:HB3	1:D:389:ILE:CG2	2.45	0.45
1:D:656:ARG:HG2	1:D:657:MET:H	1.81	0.45
1:E:337:THR:OG1	1:E:340:ASN:N	2.50	0.45
1:F:180:TRP:C	1:F:181:LEU:HD12	2.36	0.45
1:G:1059:ASP:HB3	1:G:1071:ALA:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:458:LEU:HG	1:G:587:ARG:HH22	1.81	0.45
1:H:249:ASN:O	1:H:251:APK:O	2.35	0.45
1:H:358:ASN:HA	1:H:366:ARG:NH2	2.31	0.45
1:H:523:PHE:HD1	1:H:527:TYR:CE2	2.28	0.45
1:H:662:GLN:O	1:H:663:GLN:HG2	2.17	0.45
1:I:1035:TYR:HA	1:I:1057:PRO:HG2	1.99	0.45
1:I:336:ALA:O	1:I:337:THR:OG1	2.35	0.45
1:I:604:ASN:ND2	1:I:929:VAL:H	2.04	0.45
1:I:999:ALA:HA	1:I:1019:LYS:HA	1.98	0.45
1:J:1188:LYS:HG3	1:J:1189:ALA:H	1.82	0.45
1:J:222:HIS:CG	1:K:198:LYS:NZ	2.84	0.45
1:J:337:THR:OG1	1:J:340:ASN:N	2.50	0.45
1:J:443:ILE:HG21	1:J:477:ASN:ND2	2.24	0.45
1:J:633:THR:HG22	1:J:643:TYR:HA	1.97	0.45
1:K:508:TRP:O	1:K:606:GLY:CA	2.63	0.45
1:L:1035:TYR:HA	1:L:1057:PRO:HG2	1.99	0.45
1:L:180:TRP:C	1:L:181:LEU:HD12	2.36	0.45
1:K:222:HIS:CD2	1:L:198:LYS:HG2	2.52	0.45
1:M:1201:THR:OG1	1:M:1202:MET:N	2.48	0.45
1:M:480:HIS:O	1:M:483:ARG:HG2	2.16	0.45
1:N:249:ASN:O	1:N:251:APK:O	2.35	0.45
1:N:269:LYS:HB3	1:N:407:LYS:O	2.17	0.45
1:N:480:HIS:O	1:N:483:ARG:HG2	2.16	0.45
1:N:782:CYS:HB3	1:N:816:LEU:HD13	1.99	0.45
1:O:557:LYS:NZ	1:O:1223:GLN:HG3	2.31	0.45
1:O:269:LYS:HB3	1:O:407:LYS:O	2.17	0.45
1:A:841:PHE:O	1:A:842:LEU:HB2	2.17	0.45
1:B:1098:LEU:HG	1:B:1111:GLU:HG2	1.98	0.45
1:B:1201:THR:OG1	1:B:1202:MET:N	2.48	0.45
1:B:662:GLN:O	1:B:663:GLN:HG2	2.17	0.45
1:B:782:CYS:HB3	1:B:816:LEU:HD13	1.99	0.45
1:D:127:ARG:HD3	1:D:292:LEU:HD12	1.98	0.45
1:D:337:THR:OG1	1:D:340:ASN:N	2.50	0.45
1:D:542:ILE:HA	1:D:545:PHE:HD2	1.82	0.45
1:E:1188:LYS:HG3	1:E:1189:ALA:H	1.82	0.45
1:E:457:ASP:OD2	1:E:458:LEU:HB2	2.17	0.45
1:E:451:LYS:CD	1:E:486:LEU:HD21	2.33	0.45
1:F:1035:TYR:HA	1:F:1057:PRO:HG2	1.99	0.45
1:F:117:ASN:O	1:F:118:GLN:C	2.53	0.45
1:F:480:HIS:O	1:F:483:ARG:HG2	2.16	0.45
1:G:382:PRO:HA	1:G:419:THR:CG2	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:491:PHE:N	1:G:491:PHE:CD1	2.83	0.45
1:H:269:LYS:HB3	1:H:407:LYS:O	2.17	0.45
1:H:656:ARG:HG2	1:H:657:MET:H	1.81	0.45
1:H:999:ALA:HA	1:H:1019:LYS:HA	1.98	0.45
1:I:557:LYS:CD	1:I:1223:GLN:HE21	2.30	0.45
1:J:457:ASP:OD2	1:J:458:LEU:HB2	2.17	0.45
1:K:557:LYS:NZ	1:K:1223:GLN:HG3	2.31	0.45
1:K:127:ARG:HD3	1:K:292:LEU:HD12	1.98	0.45
1:K:269:LYS:HB3	1:K:407:LYS:O	2.17	0.45
1:K:542:ILE:HA	1:K:545:PHE:HD2	1.82	0.45
1:K:458:LEU:HA	1:K:587:ARG:HH21	1.80	0.45
1:L:225:GLN:HG3	1:L:258:LEU:HD22	1.98	0.45
1:L:361:GLU:HB2	1:L:364:GLU:HB3	1.98	0.45
1:L:638:GLU:OE1	1:L:640:GLU:N	2.42	0.45
1:L:641:ASP:OD1	1:L:642:THR:N	2.45	0.45
1:L:782:CYS:HB3	1:L:816:LEU:HD13	1.99	0.45
1:L:841:PHE:O	1:L:842:LEU:HB2	2.17	0.45
1:M:269:LYS:HB3	1:M:407:LYS:O	2.17	0.45
1:M:508:TRP:O	1:M:606:GLY:CA	2.63	0.45
1:M:557:LYS:NZ	1:M:1223:GLN:HG3	2.32	0.45
1:M:662:GLN:O	1:M:663:GLN:HG2	2.17	0.45
1:M:782:CYS:HB3	1:M:816:LEU:HD13	1.99	0.45
1:N:225:GLN:HG3	1:N:258:LEU:HD22	1.98	0.45
1:N:462:TYR:OH	1:N:494:PHE:CZ	2.66	0.45
1:O:662:GLN:O	1:O:663:GLN:HG2	2.17	0.45
1:O:85:TYR:HB2	1:O:87:PHE:CE2	2.51	0.45
1:O:999:ALA:HA	1:O:1019:LYS:HA	1.98	0.45
1:P:1059:ASP:HB3	1:P:1071:ALA:HB3	1.98	0.45
1:P:458:LEU:HG	1:P:587:ARG:HH22	1.81	0.45
1:P:584:PHE:HB3	1:P:585:ASP:H	1.61	0.45
1:A:542:ILE:HA	1:A:545:PHE:HD2	1.82	0.45
1:A:999:ALA:HA	1:A:1019:LYS:HA	1.98	0.45
1:A:198:LYS:NZ	1:B:222:HIS:CD2	2.85	0.45
1:B:457:ASP:OD2	1:B:458:LEU:HB2	2.17	0.45
1:B:54:ALA:O	1:B:58:THR:N	2.48	0.45
1:C:322:ARG:C	1:C:324:LEU:H	2.19	0.45
1:C:324:LEU:HD12	1:C:324:LEU:HA	1.61	0.45
1:C:782:CYS:HB3	1:C:816:LEU:HD13	1.99	0.45
1:C:841:PHE:O	1:C:842:LEU:HB2	2.17	0.45
1:D:491:PHE:CD1	1:D:491:PHE:N	2.83	0.45
1:E:1035:TYR:HA	1:E:1057:PRO:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1158:TYR:HE2	1:E:1160:ASN:HB2	1.82	0.45
1:E:249:ASN:O	1:E:251:APK:O	2.35	0.45
1:E:458:LEU:HG	1:E:587:ARG:HH22	1.81	0.45
1:E:584:PHE:HB3	1:E:585:ASP:H	1.61	0.45
1:F:225:GLN:HG3	1:F:258:LEU:HD22	1.98	0.45
1:F:231:LEU:O	1:F:234:SER:OG	2.26	0.45
1:F:999:ALA:HA	1:F:1019:LYS:HA	1.98	0.45
1:G:1188:LYS:HG3	1:G:1189:ALA:H	1.82	0.45
1:I:898:VAL:HG13	1:I:930:HIS:CD2	2.52	0.45
1:J:1035:TYR:HA	1:J:1057:PRO:HG2	1.99	0.45
1:J:249:ASN:O	1:J:251:APK:O	2.35	0.45
1:J:542:ILE:HA	1:J:545:PHE:HD2	1.82	0.45
1:J:898:VAL:HG13	1:J:930:HIS:CD2	2.52	0.45
1:K:337:THR:OG1	1:K:340:ASN:N	2.50	0.45
1:K:457:ASP:OD2	1:K:458:LEU:HB2	2.17	0.45
1:K:491:PHE:N	1:K:491:PHE:CD1	2.83	0.45
1:K:80:VAL:HA	1:K:83:ILE:HD12	1.98	0.45
1:K:222:HIS:CD2	1:L:198:LYS:HZ2	2.30	0.45
1:L:322:ARG:C	1:L:324:LEU:H	2.19	0.45
1:L:269:LYS:HB3	1:L:407:LYS:O	2.17	0.45
1:M:337:THR:OG1	1:M:340:ASN:N	2.50	0.45
1:M:457:ASP:OD2	1:M:458:LEU:HB2	2.17	0.45
1:N:180:TRP:C	1:N:181:LEU:HD12	2.36	0.45
1:N:542:ILE:HA	1:N:545:PHE:HD2	1.81	0.45
1:N:841:PHE:O	1:N:842:LEU:HB2	2.17	0.45
1:O:102:MET:O	1:O:105:MET:N	2.46	0.45
1:O:180:TRP:C	1:O:181:LEU:HD12	2.36	0.45
1:O:358:ASN:HA	1:O:366:ARG:NH2	2.31	0.45
1:P:491:PHE:CD1	1:P:491:PHE:N	2.83	0.45
1:A:127:ARG:HD3	1:A:292:LEU:HD12	1.98	0.45
1:A:341:TRP:CE3	1:A:341:TRP:O	2.70	0.45
1:A:458:LEU:CA	1:A:587:ARG:HH21	2.30	0.45
1:A:462:TYR:OH	1:A:494:PHE:CZ	2.66	0.45
1:A:641:ASP:OD1	1:A:642:THR:N	2.45	0.45
1:B:11:GLN:O	1:B:14:ASP:N	2.46	0.45
1:B:154:GLY:O	1:B:155:SER:OG	2.35	0.45
1:B:337:THR:OG1	1:B:340:ASN:N	2.50	0.45
1:B:36:PRO:HG2	1:B:39:ILE:CG2	2.47	0.45
1:B:269:LYS:HB3	1:B:407:LYS:O	2.17	0.45
1:B:462:TYR:OH	1:B:494:PHE:CZ	2.66	0.45
1:C:15:ILE:HD11	1:C:103:THR:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:225:GLN:HG3	1:C:258:LEU:HD22	1.98	0.45
1:C:269:LYS:HB3	1:C:407:LYS:O	2.17	0.45
1:D:249:ASN:O	1:D:251:APK:O	2.35	0.45
1:D:898:VAL:HG13	1:D:930:HIS:CD2	2.52	0.45
1:E:542:ILE:HA	1:E:545:PHE:HD2	1.82	0.45
1:E:662:GLN:O	1:E:663:GLN:HG2	2.17	0.45
1:E:898:VAL:HG13	1:E:930:HIS:CD2	2.52	0.45
1:F:1158:TYR:HE2	1:F:1160:ASN:HB2	1.82	0.45
1:G:866:LYS:HE2	1:G:872:ARG:HH11	1.81	0.45
1:H:1098:LEU:HG	1:H:1111:GLU:HG2	1.99	0.45
1:H:1158:TYR:HE2	1:H:1160:ASN:HB2	1.82	0.45
1:H:292:LEU:HB2	1:H:319:THR:HB	1.99	0.45
1:H:85:TYR:HB2	1:H:87:PHE:CE2	2.51	0.45
1:I:1158:TYR:HE2	1:I:1160:ASN:HB2	1.83	0.45
1:J:662:GLN:O	1:J:663:GLN:HG2	2.17	0.45
1:K:1158:TYR:HE2	1:K:1160:ASN:HB2	1.82	0.45
1:K:15:ILE:HD11	1:K:103:THR:HG21	1.99	0.45
1:K:249:ASN:O	1:K:251:APK:O	2.35	0.45
1:K:898:VAL:HG13	1:K:930:HIS:CD2	2.52	0.45
1:L:656:ARG:HG2	1:L:657:MET:H	1.81	0.45
1:M:133:LYS:O	1:M:136:GLN:HB3	2.16	0.45
1:L:142:ARG:NH1	1:M:14:ASP:OD2	2.48	0.45
1:M:154:GLY:O	1:M:155:SER:OG	2.35	0.45
1:M:249:ASN:O	1:M:251:APK:O	2.35	0.45
1:M:36:PRO:HG2	1:M:39:ILE:CG2	2.46	0.45
1:M:371:ARG:HB3	1:M:389:ILE:CG2	2.45	0.45
1:M:458:LEU:CA	1:M:587:ARG:HH21	2.30	0.45
1:M:462:TYR:OH	1:M:494:PHE:CZ	2.66	0.45
1:M:54:ALA:O	1:M:58:THR:N	2.48	0.45
1:N:458:LEU:CA	1:N:587:ARG:HH21	2.30	0.45
1:N:999:ALA:HA	1:N:1019:LYS:HA	1.98	0.45
1:O:1098:LEU:HG	1:O:1111:GLU:HG2	1.99	0.45
1:O:1158:TYR:HE2	1:O:1160:ASN:HB2	1.82	0.45
1:O:292:LEU:HB2	1:O:319:THR:HB	1.99	0.45
1:O:656:ARG:HG2	1:O:657:MET:H	1.81	0.45
1:O:866:LYS:HE2	1:O:872:ARG:HH11	1.81	0.45
1:P:480:HIS:O	1:P:483:ARG:HG2	2.16	0.45
1:P:458:LEU:CA	1:P:587:ARG:HH21	2.30	0.45
1:P:866:LYS:HE2	1:P:872:ARG:HH11	1.81	0.45
1:A:157:LYS:N	2:A:1501:DTP:O2B	2.51	0.44
1:A:388:LEU:HB3	1:A:446:HIS:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:80:VAL:HA	1:A:83:ILE:HD12	1.98	0.44
1:B:1158:TYR:HE2	1:B:1160:ASN:HB2	1.83	0.44
1:B:249:ASN:O	1:B:251:APK:O	2.35	0.44
1:B:371:ARG:HB3	1:B:389:ILE:CG2	2.45	0.44
1:B:388:LEU:HB3	1:B:446:HIS:CE1	2.52	0.44
1:B:491:PHE:N	1:B:491:PHE:CD1	2.83	0.44
1:C:1158:TYR:HE2	1:C:1160:ASN:HB2	1.82	0.44
1:C:154:GLY:O	1:C:155:SER:OG	2.35	0.44
1:C:317:LEU:O	1:C:318:THR:CB	2.61	0.44
1:C:361:GLU:HB2	1:C:364:GLU:HB3	1.98	0.44
1:C:638:GLU:OE1	1:C:640:GLU:N	2.42	0.44
1:D:15:ILE:HD11	1:D:103:THR:HG21	1.99	0.44
1:D:457:ASP:OD2	1:D:458:LEU:HB2	2.17	0.44
1:D:641:ASP:OD1	1:D:642:THR:N	2.45	0.44
1:D:80:VAL:HA	1:D:83:ILE:HD12	1.98	0.44
1:E:269:LYS:HB3	1:E:407:LYS:O	2.17	0.44
1:E:341:TRP:CE3	1:E:341:TRP:O	2.70	0.44
1:E:491:PHE:CD1	1:E:491:PHE:N	2.83	0.44
1:F:1188:LYS:HG3	1:F:1189:ALA:H	1.82	0.44
1:F:361:GLU:HB2	1:F:364:GLU:HB3	1.98	0.44
1:F:269:LYS:HB3	1:F:407:LYS:O	2.17	0.44
1:F:54:ALA:O	1:F:58:THR:N	2.48	0.44
1:G:15:ILE:HD11	1:G:103:THR:HG21	1.99	0.44
1:G:157:LYS:N	2:G:1501:DTP:O2B	2.51	0.44
1:G:207:TRP:CH2	1:G:209:SER:HA	2.51	0.44
1:G:36:PRO:HG2	1:G:39:ILE:CG2	2.47	0.44
1:G:392:ASP:OD1	1:G:393:VAL:N	2.47	0.44
1:G:458:LEU:CA	1:G:587:ARG:HH21	2.31	0.44
1:I:1188:LYS:HG3	1:I:1189:ALA:H	1.82	0.44
1:I:361:GLU:HB2	1:I:364:GLU:HB3	1.98	0.44
1:I:413:LYS:CD	1:I:422:ILE:O	2.61	0.44
1:I:480:HIS:O	1:I:483:ARG:HG2	2.16	0.44
1:J:1158:TYR:HE2	1:J:1160:ASN:HB2	1.83	0.44
1:J:292:LEU:HB2	1:J:319:THR:HB	1.99	0.44
1:J:269:LYS:HB3	1:J:407:LYS:O	2.17	0.44
1:J:458:LEU:HG	1:J:587:ARG:HH22	1.81	0.44
1:K:36:PRO:HG2	1:K:39:ILE:CG2	2.46	0.44
1:K:782:CYS:HB3	1:K:816:LEU:HD13	1.99	0.44
1:L:15:ILE:HD11	1:L:103:THR:HG21	1.99	0.44
1:L:157:LYS:N	2:L:1501:DTP:O1B	2.51	0.44
1:L:988:ASP:OD1	1:L:989:SER:N	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1098:LEU:HG	1:M:1111:GLU:HG2	1.99	0.44
1:M:1158:TYR:HE2	1:M:1160:ASN:HB2	1.82	0.44
1:M:11:GLN:O	1:M:14:ASP:N	2.46	0.44
1:N:1158:TYR:HE2	1:N:1160:ASN:HB2	1.82	0.44
1:N:127:ARG:HD3	1:N:292:LEU:HD12	1.98	0.44
1:N:157:LYS:N	2:N:1501:DTP:O1B	2.51	0.44
1:N:341:TRP:CE3	1:N:341:TRP:O	2.71	0.44
1:N:358:ASN:HA	1:N:366:ARG:NH2	2.31	0.44
1:N:641:ASP:OD1	1:N:642:THR:N	2.45	0.44
1:N:80:VAL:HA	1:N:83:ILE:HD12	1.98	0.44
1:P:15:ILE:HD11	1:P:103:THR:HG21	1.99	0.44
1:P:1158:TYR:HE2	1:P:1160:ASN:HB2	1.82	0.44
1:P:1188:LYS:HG3	1:P:1189:ALA:H	1.82	0.44
1:P:207:TRP:CH2	1:P:209:SER:HA	2.51	0.44
1:P:36:PRO:HG2	1:P:39:ILE:CG2	2.46	0.44
1:P:392:ASP:OD1	1:P:393:VAL:N	2.47	0.44
1:A:1158:TYR:HE2	1:A:1160:ASN:HB2	1.83	0.44
1:B:133:LYS:O	1:B:136:GLN:HB3	2.16	0.44
1:A:194:GLU:OE2	1:B:216:ASN:ND2	2.50	0.44
1:B:293:THR:HG22	1:B:295:ASP:H	1.80	0.44
1:B:341:TRP:CE3	1:B:341:TRP:O	2.71	0.44
1:B:361:GLU:HB2	1:B:364:GLU:HB3	1.98	0.44
1:B:458:LEU:CA	1:B:587:ARG:HH21	2.31	0.44
1:B:841:PHE:O	1:B:842:LEU:HB2	2.17	0.44
1:C:480:HIS:O	1:C:483:ARG:HG2	2.16	0.44
1:C:656:ARG:HG2	1:C:657:MET:H	1.81	0.44
1:C:662:GLN:O	1:C:663:GLN:HG2	2.17	0.44
1:D:1035:TYR:HA	1:D:1057:PRO:HG2	1.99	0.44
1:D:1158:TYR:HE2	1:D:1160:ASN:HB2	1.83	0.44
1:E:292:LEU:HB2	1:E:319:THR:HB	1.99	0.44
1:E:641:ASP:OD1	1:E:642:THR:N	2.45	0.44
1:F:15:ILE:HD11	1:F:103:THR:HG21	1.99	0.44
1:F:557:LYS:CD	1:F:1223:GLN:HE21	2.30	0.44
1:G:1158:TYR:HE2	1:G:1160:ASN:HB2	1.82	0.44
1:G:337:THR:OG1	1:G:340:ASN:N	2.50	0.44
1:G:480:HIS:O	1:G:483:ARG:HG2	2.16	0.44
1:H:102:MET:O	1:H:105:MET:N	2.46	0.44
1:H:1188:LYS:HG3	1:H:1189:ALA:H	1.82	0.44
1:H:15:ILE:HD11	1:H:103:THR:HG21	1.99	0.44
1:H:341:TRP:O	1:H:341:TRP:CE3	2.71	0.44
1:H:782:CYS:HB3	1:H:816:LEU:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:866:LYS:HE2	1:H:872:ARG:HH11	1.81	0.44
1:I:180:TRP:C	1:I:181:LEU:HD12	2.36	0.44
1:I:249:ASN:O	1:I:251:APK:O	2.35	0.44
1:I:269:LYS:HB3	1:I:407:LYS:O	2.17	0.44
1:I:629:GLN:HG2	1:I:651:SER:H	1.83	0.44
1:J:1098:LEU:HG	1:J:1111:GLU:HG2	1.99	0.44
1:J:15:ILE:HD11	1:J:103:THR:HG21	1.99	0.44
1:J:341:TRP:CE3	1:J:341:TRP:O	2.71	0.44
1:J:491:PHE:CD1	1:J:491:PHE:N	2.83	0.44
1:K:1035:TYR:HA	1:K:1057:PRO:HG2	1.99	0.44
1:K:144:ALA:HB3	1:L:111:ASP:HB3	1.99	0.44
1:L:1158:TYR:HE2	1:L:1160:ASN:HB2	1.82	0.44
1:L:154:GLY:O	1:L:155:SER:OG	2.35	0.44
1:L:285:LEU:HD23	1:L:285:LEU:HA	1.74	0.44
1:M:388:LEU:HB3	1:M:446:HIS:CE1	2.53	0.44
1:M:491:PHE:N	1:M:491:PHE:CD1	2.83	0.44
1:N:1098:LEU:HG	1:N:1111:GLU:HG2	1.98	0.44
1:N:388:LEU:HB3	1:N:446:HIS:CE1	2.52	0.44
1:O:120:PHE:CE1	1:O:159:TRP:CE3	3.05	0.44
1:P:157:LYS:N	2:P:1501:DTP:O1B	2.51	0.44
1:P:337:THR:OG1	1:P:340:ASN:N	2.50	0.44
1:P:269:LYS:HB3	1:P:407:LYS:O	2.17	0.44
1:P:999:ALA:HA	1:P:1019:LYS:HA	1.98	0.44
1:A:557:LYS:NZ	1:A:1223:GLN:HG3	2.32	0.44
1:A:122:LYS:HG3	1:B:276:SER:HB2	1.99	0.44
1:A:337:THR:OG1	1:A:340:ASN:N	2.50	0.44
1:A:358:ASN:HA	1:A:366:ARG:NH2	2.31	0.44
1:A:629:GLN:HG2	1:A:651:SER:H	1.83	0.44
1:B:15:ILE:HD11	1:B:103:THR:HG21	1.99	0.44
1:B:292:LEU:HB2	1:B:319:THR:HB	1.99	0.44
1:C:157:LYS:N	2:C:1501:DTP:O2B	2.51	0.44
1:C:292:LEU:HB2	1:C:319:THR:HB	1.99	0.44
1:C:988:ASP:OD1	1:C:989:SER:N	2.43	0.44
1:D:341:TRP:O	1:D:341:TRP:CE3	2.70	0.44
1:D:36:PRO:HG2	1:D:39:ILE:CG2	2.46	0.44
1:D:417:GLU:HG2	1:D:417:GLU:O	2.18	0.44
1:D:782:CYS:HB3	1:D:816:LEU:HD13	1.99	0.44
1:E:1098:LEU:HG	1:E:1111:GLU:HG2	1.99	0.44
1:E:15:ILE:HD11	1:E:103:THR:HG21	1.99	0.44
1:F:557:LYS:NZ	1:F:1223:GLN:HG3	2.31	0.44
1:F:266:THR:HG22	1:F:268:PHE:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:413:LYS:CD	1:F:422:ILE:O	2.61	0.44
1:F:457:ASP:OD2	1:F:458:LEU:HB2	2.17	0.44
1:F:629:GLN:HG2	1:F:651:SER:H	1.83	0.44
1:F:957:ILE:HG13	1:F:1248:LEU:HD22	1.99	0.44
1:G:251:APK:H2'	1:G:251:APK:H8	1.74	0.44
1:G:341:TRP:CE3	1:G:341:TRP:O	2.70	0.44
1:G:440:HIS:O	1:G:444:VAL:HG23	2.18	0.44
1:G:999:ALA:HA	1:G:1019:LYS:HA	1.98	0.44
1:I:957:ILE:HG13	1:I:1248:LEU:HD22	1.99	0.44
1:I:266:THR:HG22	1:I:268:PHE:N	2.33	0.44
1:I:440:HIS:O	1:I:444:VAL:HG23	2.18	0.44
1:I:54:ALA:O	1:I:58:THR:N	2.48	0.44
1:I:662:GLN:O	1:I:663:GLN:HG2	2.17	0.44
1:I:841:PHE:O	1:I:842:LEU:HB2	2.17	0.44
1:J:200:LEU:HA	1:J:200:LEU:HD12	1.74	0.44
1:J:451:LYS:CD	1:J:486:LEU:HD21	2.33	0.44
1:J:584:PHE:HB3	1:J:585:ASP:H	1.61	0.44
1:K:1098:LEU:HG	1:K:1111:GLU:HG2	1.99	0.44
1:K:341:TRP:O	1:K:341:TRP:CE3	2.70	0.44
1:K:417:GLU:O	1:K:417:GLU:HG2	2.18	0.44
1:K:641:ASP:OD1	1:K:642:THR:N	2.45	0.44
1:K:999:ALA:HA	1:K:1019:LYS:HA	1.98	0.44
1:L:249:ASN:O	1:L:251:APK:O	2.35	0.44
1:L:457:ASP:OD2	1:L:458:LEU:HB2	2.17	0.44
1:L:662:GLN:O	1:L:663:GLN:HG2	2.17	0.44
1:M:20:GLU:HG3	1:M:21:ASP:N	2.33	0.44
1:M:292:LEU:HB2	1:M:319:THR:HB	1.99	0.44
1:M:293:THR:HG22	1:M:295:ASP:H	1.80	0.44
1:M:313:PRO:CG	1:M:338:TRP:CE2	2.94	0.44
1:M:341:TRP:CE3	1:M:341:TRP:O	2.71	0.44
1:M:361:GLU:HB2	1:M:364:GLU:HB3	1.98	0.44
1:M:633:THR:HG22	1:M:643:TYR:HA	1.97	0.44
1:M:841:PHE:O	1:M:842:LEU:HB2	2.17	0.44
1:N:1188:LYS:HG3	1:N:1189:ALA:H	1.82	0.44
1:N:629:GLN:HG2	1:N:651:SER:H	1.83	0.44
1:O:341:TRP:O	1:O:341:TRP:CE3	2.71	0.44
1:I:122:LYS:HG3	1:P:276:SER:OG	2.16	0.44
1:P:341:TRP:O	1:P:341:TRP:CE3	2.70	0.44
1:A:1098:LEU:HG	1:A:1111:GLU:HG2	1.99	0.44
1:A:120:PHE:CE1	1:A:159:TRP:CE3	3.05	0.44
1:B:557:LYS:CD	1:B:1223:GLN:HE21	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:20:GLU:HG3	1:B:21:ASP:N	2.33	0.44
1:B:313:PRO:CG	1:B:338:TRP:CE2	2.94	0.44
1:B:463:LEU:CD2	1:B:467:PHE:CD2	2.92	0.44
1:B:633:THR:HG22	1:B:643:TYR:HA	1.97	0.44
1:C:266:THR:HG22	1:C:268:PHE:N	2.33	0.44
1:C:457:ASP:OD2	1:C:458:LEU:HB2	2.17	0.44
1:D:999:ALA:HA	1:D:1019:LYS:HA	1.98	0.44
1:D:1098:LEU:HG	1:D:1111:GLU:HG2	1.99	0.44
1:D:154:GLY:O	1:D:155:SER:OG	2.35	0.44
1:D:462:TYR:CZ	1:D:494:PHE:CZ	3.03	0.44
1:E:234:SER:OG	1:E:235:LYS:N	2.51	0.44
1:E:458:LEU:CA	1:E:587:ARG:HH21	2.31	0.44
1:E:629:GLN:HG2	1:E:651:SER:H	1.83	0.44
1:E:782:CYS:HB3	1:E:816:LEU:HD13	1.99	0.44
1:F:249:ASN:O	1:F:251:APK:O	2.35	0.44
1:F:292:LEU:HB2	1:F:319:THR:HB	1.99	0.44
1:F:440:HIS:O	1:F:444:VAL:HG23	2.18	0.44
1:G:249:ASN:O	1:G:251:APK:O	2.35	0.44
1:G:269:LYS:HB3	1:G:407:LYS:O	2.17	0.44
1:G:292:LEU:HB2	1:G:319:THR:HB	1.99	0.44
1:G:54:ALA:O	1:G:58:THR:N	2.48	0.44
1:H:120:PHE:CE1	1:H:159:TRP:CE3	3.05	0.44
1:H:388:LEU:HB3	1:H:446:HIS:CE1	2.52	0.44
1:H:463:LEU:CD2	1:H:467:PHE:CD2	2.92	0.44
1:I:15:ILE:HD11	1:I:103:THR:HG21	1.99	0.44
1:I:1098:LEU:HG	1:I:1111:GLU:HG2	1.99	0.44
1:I:557:LYS:NZ	1:I:1223:GLN:HG3	2.31	0.44
1:I:292:LEU:HB2	1:I:319:THR:HB	1.99	0.44
1:I:458:LEU:HA	1:I:587:ARG:HH21	1.80	0.44
1:J:127:ARG:HD3	1:J:292:LEU:HD12	1.98	0.44
1:J:234:SER:OG	1:J:235:LYS:N	2.51	0.44
1:J:440:HIS:O	1:J:444:VAL:HG23	2.18	0.44
1:J:458:LEU:CA	1:J:587:ARG:HH21	2.31	0.44
1:J:782:CYS:HB3	1:J:816:LEU:HD13	1.99	0.44
1:K:154:GLY:O	1:K:155:SER:OG	2.35	0.44
1:L:1188:LYS:HG3	1:L:1189:ALA:H	1.82	0.44
1:L:292:LEU:HB2	1:L:319:THR:HB	2.00	0.44
1:M:15:ILE:HD11	1:M:103:THR:HG21	1.99	0.44
1:M:463:LEU:CD2	1:M:467:PHE:CD2	2.92	0.44
1:M:557:LYS:CD	1:M:1223:GLN:HE21	2.30	0.44
1:M:875:LEU:CD1	1:M:911:PHE:HD2	2.07	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:120:PHE:CE1	1:N:159:TRP:CE3	3.05	0.44
1:N:15:ILE:HD11	1:N:103:THR:HG21	1.99	0.44
1:N:20:GLU:HG3	1:N:21:ASP:N	2.33	0.44
1:N:337:THR:OG1	1:N:340:ASN:N	2.50	0.44
1:N:557:LYS:NZ	1:N:1223:GLN:HG3	2.32	0.44
1:M:1177:TYR:HE2	1:N:916:LYS:CE	2.30	0.44
1:N:988:ASP:OD1	1:N:989:SER:N	2.43	0.44
1:O:15:ILE:HD11	1:O:103:THR:HG21	2.00	0.44
1:O:142:ARG:HH22	1:P:14:ASP:CG	2.21	0.44
1:O:388:LEU:HB3	1:O:446:HIS:CE1	2.52	0.44
1:O:457:ASP:OD2	1:O:458:LEU:HB2	2.17	0.44
1:P:292:LEU:HB2	1:P:319:THR:HB	1.99	0.44
1:P:440:HIS:O	1:P:444:VAL:HG23	2.18	0.44
1:A:1188:LYS:HG3	1:A:1189:ALA:H	1.82	0.44
1:A:15:ILE:HD11	1:A:103:THR:HG21	1.99	0.44
1:A:20:GLU:HG3	1:A:21:ASP:N	2.33	0.44
1:B:120:PHE:CE1	1:B:159:TRP:CE3	3.05	0.44
1:C:337:THR:OG1	1:C:340:ASN:N	2.50	0.44
1:D:409:SER:O	1:D:411:VAL:N	2.51	0.44
1:D:462:TYR:OH	1:D:494:PHE:CZ	2.66	0.44
1:E:20:GLU:HG3	1:E:21:ASP:N	2.33	0.44
1:E:127:ARG:HD3	1:E:292:LEU:HD12	1.97	0.44
1:E:417:GLU:O	1:E:417:GLU:HG2	2.18	0.44
1:E:440:HIS:O	1:E:444:VAL:HG23	2.18	0.44
1:F:1098:LEU:HG	1:F:1111:GLU:HG2	1.99	0.44
1:F:234:SER:OG	1:F:235:LYS:N	2.51	0.44
1:F:662:GLN:O	1:F:663:GLN:HG2	2.17	0.44
1:G:398:VAL:HG23	1:G:399:MET:N	2.28	0.44
1:G:799:ASN:C	1:G:800:THR:CG2	2.86	0.44
1:G:898:VAL:HG13	1:G:930:HIS:CD2	2.52	0.44
1:H:157:LYS:N	2:H:1501:DTP:O2B	2.51	0.44
1:H:266:THR:HG22	1:H:268:PHE:N	2.33	0.44
1:I:337:THR:OG1	1:I:340:ASN:N	2.50	0.44
1:J:557:LYS:NZ	1:J:1223:GLN:HG3	2.31	0.44
1:K:462:TYR:CZ	1:K:494:PHE:CZ	3.03	0.44
1:K:662:GLN:O	1:K:663:GLN:HG2	2.17	0.44
1:L:317:LEU:O	1:L:318:THR:CB	2.61	0.44
1:L:409:SER:O	1:L:411:VAL:N	2.51	0.44
1:L:417:GLU:O	1:L:417:GLU:HG2	2.18	0.44
1:L:388:LEU:HB3	1:L:446:HIS:CE1	2.52	0.44
1:M:120:PHE:CE1	1:M:159:TRP:CE3	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1188:LYS:HG3	1:O:1189:ALA:H	1.82	0.44
1:O:157:LYS:N	2:O:1501:DTP:O1B	2.51	0.44
1:O:20:GLU:HG3	1:O:21:ASP:N	2.33	0.44
1:O:266:THR:HG22	1:O:268:PHE:N	2.33	0.44
1:O:782:CYS:HB3	1:O:816:LEU:HD13	1.99	0.44
1:P:249:ASN:O	1:P:251:APK:O	2.35	0.44
1:P:251:APK:H8	1:P:251:APK:H2'	1.73	0.44
1:P:398:VAL:HG23	1:P:399:MET:N	2.28	0.44
1:P:782:CYS:HB3	1:P:816:LEU:HD13	1.99	0.44
1:P:799:ASN:C	1:P:800:THR:CG2	2.86	0.44
1:P:988:ASP:OD1	1:P:989:SER:N	2.43	0.44
1:A:557:LYS:CD	1:A:1223:GLN:HE21	2.30	0.44
1:A:451:LYS:CD	1:A:486:LEU:HD21	2.33	0.44
1:B:453:PHE:CE2	1:B:460:PRO:HB3	2.49	0.44
1:B:554:ILE:O	1:B:556:SER:N	2.46	0.44
1:B:875:LEU:CD1	1:B:911:PHE:HD2	2.07	0.44
1:C:1000:ILE:HD11	1:C:1014:ALA:HB3	2.00	0.44
1:C:1098:LEU:HG	1:C:1111:GLU:HG2	1.99	0.44
1:C:249:ASN:O	1:C:251:APK:O	2.35	0.44
1:C:409:SER:O	1:C:411:VAL:N	2.51	0.44
1:C:905:VAL:HG13	1:C:906:ASP:N	2.33	0.44
1:C:957:ILE:HG13	1:C:1248:LEU:HD22	1.99	0.44
1:D:231:LEU:O	1:D:234:SER:OG	2.26	0.44
1:D:440:HIS:O	1:D:444:VAL:HG23	2.18	0.44
1:D:458:LEU:CA	1:D:587:ARG:HH21	2.30	0.44
1:E:557:LYS:NZ	1:E:1223:GLN:HG3	2.31	0.44
1:F:157:LYS:N	2:F:1501:DTP:O2B	2.51	0.44
1:F:463:LEU:CD2	1:F:467:PHE:CD2	2.92	0.44
1:F:491:PHE:CD1	1:F:491:PHE:N	2.83	0.44
1:F:782:CYS:HB3	1:F:816:LEU:HD13	1.99	0.44
1:F:841:PHE:O	1:F:842:LEU:HB2	2.16	0.44
1:G:409:SER:O	1:G:411:VAL:N	2.51	0.44
1:G:457:ASP:OD2	1:G:458:LEU:HB2	2.17	0.44
1:G:542:ILE:HA	1:G:545:PHE:HD2	1.82	0.44
1:G:988:ASP:OD1	1:G:989:SER:N	2.43	0.44
1:H:337:THR:OG1	1:H:340:ASN:N	2.50	0.44
1:H:417:GLU:O	1:H:417:GLU:HG2	2.18	0.44
1:H:457:ASP:OD2	1:H:458:LEU:HB2	2.17	0.44
1:H:458:LEU:CA	1:H:587:ARG:HH21	2.31	0.44
1:I:157:LYS:N	2:I:1501:DTP:O1B	2.51	0.44
1:I:234:SER:OG	1:I:235:LYS:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:457:ASP:OD2	1:I:458:LEU:HB2	2.17	0.44
1:I:782:CYS:HB3	1:I:816:LEU:HD13	1.99	0.44
1:J:641:ASP:OD1	1:J:642:THR:N	2.45	0.44
1:J:629:GLN:HG2	1:J:651:SER:H	1.83	0.44
1:K:409:SER:O	1:K:411:VAL:N	2.51	0.44
1:K:440:HIS:O	1:K:444:VAL:HG23	2.18	0.44
1:K:462:TYR:OH	1:K:494:PHE:CZ	2.66	0.44
1:L:1000:ILE:HD11	1:L:1014:ALA:HB3	2.00	0.44
1:L:182:ASN:HD22	1:L:245:LEU:HB2	1.83	0.44
1:L:266:THR:HG22	1:L:268:PHE:N	2.33	0.44
1:M:554:ILE:O	1:M:556:SER:N	2.46	0.44
1:N:54:ALA:O	1:N:58:THR:N	2.48	0.44
1:O:417:GLU:HG2	1:O:417:GLU:O	2.18	0.44
1:O:458:LEU:CA	1:O:587:ARG:HH21	2.30	0.44
1:O:453:PHE:CE1	1:O:460:PRO:HB3	2.51	0.44
1:P:457:ASP:OD2	1:P:458:LEU:HB2	2.17	0.44
1:P:54:ALA:O	1:P:58:THR:N	2.48	0.44
1:A:54:ALA:O	1:A:58:THR:N	2.48	0.44
1:B:1036:VAL:HG12	1:B:1037:ASP:H	1.83	0.44
1:B:266:THR:HG22	1:B:268:PHE:N	2.33	0.44
1:B:999:ALA:HA	1:B:1019:LYS:HA	1.98	0.44
1:C:102:MET:O	1:C:105:MET:N	2.46	0.44
1:C:182:ASN:HD22	1:C:245:LEU:HB2	1.83	0.44
1:D:264:LEU:HA	1:D:264:LEU:HD23	1.74	0.44
1:D:451:LYS:CD	1:D:486:LEU:HD21	2.33	0.44
1:E:157:LYS:N	2:E:1501:DTP:O2B	2.51	0.44
1:E:120:PHE:CE1	1:E:159:TRP:CE3	3.05	0.44
1:E:409:SER:O	1:E:411:VAL:N	2.51	0.44
1:E:508:TRP:O	1:E:606:GLY:CA	2.63	0.44
1:G:443:ILE:HG21	1:G:477:ASN:ND2	2.24	0.44
1:G:662:GLN:O	1:G:663:GLN:HG2	2.17	0.44
1:G:782:CYS:HB3	1:G:816:LEU:HD13	1.99	0.44
1:H:20:GLU:HG3	1:H:21:ASP:N	2.33	0.44
1:H:453:PHE:CE1	1:H:460:PRO:HB3	2.51	0.44
1:I:148:LEU:HD23	1:I:264:LEU:HB2	2.00	0.44
1:I:409:SER:O	1:I:411:VAL:N	2.51	0.44
1:I:458:LEU:CA	1:I:587:ARG:HH21	2.30	0.44
1:I:499:GLN:CD	1:I:516:ASN:HB3	2.38	0.44
1:I:866:LYS:HE2	1:I:872:ARG:HH11	1.81	0.44
1:J:120:PHE:CE1	1:J:159:TRP:CE3	3.05	0.44
1:J:20:GLU:HG3	1:J:21:ASP:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:417:GLU:O	1:J:417:GLU:HG2	2.18	0.44
1:K:231:LEU:O	1:K:234:SER:OG	2.26	0.44
1:L:341:TRP:O	1:L:341:TRP:CE3	2.70	0.44
1:L:905:VAL:HG13	1:L:906:ASP:N	2.33	0.44
1:M:1036:VAL:HG12	1:M:1037:ASP:H	1.83	0.44
1:M:1192:SER:OG	1:M:1208:GLU:OE2	2.28	0.44
1:M:266:THR:HG22	1:M:268:PHE:N	2.33	0.44
1:N:1036:VAL:HG12	1:N:1037:ASP:H	1.83	0.44
1:N:902:ILE:HD13	1:N:930:HIS:CE1	2.43	0.44
1:O:799:ASN:C	1:O:800:THR:CG2	2.86	0.44
1:O:879:SER:N	1:O:880:GLU:OE1	2.51	0.44
1:P:409:SER:O	1:P:411:VAL:N	2.51	0.44
1:P:443:ILE:HG21	1:P:477:ASN:ND2	2.24	0.44
1:P:662:GLN:O	1:P:663:GLN:HG2	2.17	0.44
1:P:898:VAL:HG13	1:P:930:HIS:CD2	2.52	0.44
1:P:91:PRO:O	1:P:94:THR:OG1	2.21	0.44
1:A:461:PRO:O	1:A:461:PRO:HG2	2.18	0.44
1:A:988:ASP:OD1	1:A:989:SER:N	2.43	0.44
1:D:1000:ILE:HD11	1:D:1014:ALA:HB3	2.00	0.44
1:D:1036:VAL:HG12	1:D:1037:ASP:H	1.83	0.44
1:D:157:LYS:N	2:D:1501:DTP:O2B	2.51	0.44
1:D:244:LEU:HD21	1:D:256:PHE:CD2	2.50	0.44
1:D:662:GLN:O	1:D:663:GLN:HG2	2.17	0.44
1:E:266:THR:HG22	1:E:268:PHE:N	2.33	0.44
1:E:463:LEU:CD2	1:E:467:PHE:HD2	2.31	0.44
1:E:799:ASN:C	1:E:800:THR:CG2	2.86	0.44
1:E:879:SER:N	1:E:880:GLU:OE1	2.51	0.44
1:F:337:THR:OG1	1:F:340:ASN:N	2.50	0.44
1:F:388:LEU:HB3	1:F:446:HIS:CE1	2.52	0.44
1:F:499:GLN:CD	1:F:516:ASN:HB3	2.39	0.44
1:F:866:LYS:HE2	1:F:872:ARG:HH11	1.81	0.44
1:G:20:GLU:HG3	1:G:21:ASP:N	2.33	0.44
1:G:388:LEU:HB3	1:G:446:HIS:CE1	2.52	0.44
1:H:409:SER:O	1:H:411:VAL:N	2.51	0.44
1:H:440:HIS:O	1:H:444:VAL:HG23	2.18	0.44
1:H:542:ILE:HA	1:H:545:PHE:HD2	1.82	0.44
1:H:54:ALA:O	1:H:58:THR:N	2.48	0.44
1:H:799:ASN:C	1:H:800:THR:CG2	2.86	0.44
1:H:879:SER:N	1:H:880:GLU:OE1	2.51	0.44
1:I:988:ASP:OD1	1:I:989:SER:N	2.43	0.44
1:J:157:LYS:N	2:J:1501:DTP:O1B	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:222:HIS:CG	1:J:198:LYS:NZ	2.86	0.44
1:J:266:THR:HG22	1:J:268:PHE:N	2.33	0.44
1:J:371:ARG:HB3	1:J:389:ILE:CG2	2.45	0.44
1:J:409:SER:O	1:J:411:VAL:N	2.51	0.44
1:J:799:ASN:C	1:J:800:THR:CG2	2.86	0.44
1:J:879:SER:N	1:J:880:GLU:OE1	2.51	0.44
1:K:1036:VAL:HG12	1:K:1037:ASP:H	1.83	0.44
1:K:157:LYS:N	2:K:1501:DTP:O1B	2.51	0.44
1:K:234:SER:OG	1:K:235:LYS:N	2.51	0.44
1:K:458:LEU:CA	1:K:587:ARG:HH21	2.31	0.44
1:K:629:GLN:HG2	1:K:651:SER:H	1.83	0.44
1:L:337:THR:OG1	1:L:340:ASN:N	2.50	0.44
1:C:97:ARG:HH22	1:L:97:ARG:NH2	2.14	0.44
1:L:999:ALA:HA	1:L:1019:LYS:HA	1.98	0.44
1:M:453:PHE:CE2	1:M:460:PRO:HB3	2.49	0.44
1:M:461:PRO:O	1:M:461:PRO:HG2	2.18	0.44
1:M:508:TRP:C	1:M:606:GLY:N	2.70	0.44
1:M:879:SER:N	1:M:880:GLU:OE1	2.51	0.44
1:M:999:ALA:HA	1:M:1019:LYS:HA	1.98	0.44
1:N:557:LYS:CD	1:N:1223:GLN:HE21	2.30	0.44
1:N:251:APK:H8	1:N:251:APK:H2'	1.74	0.44
1:N:276:SER:OG	1:O:122:LYS:HG3	2.18	0.44
1:N:382:PRO:HA	1:N:419:THR:CG2	2.36	0.44
1:N:461:PRO:HG2	1:N:461:PRO:O	2.18	0.44
1:O:1036:VAL:HG12	1:O:1037:ASP:H	1.83	0.44
1:O:337:THR:OG1	1:O:340:ASN:N	2.50	0.44
1:O:409:SER:O	1:O:411:VAL:N	2.51	0.44
1:O:463:LEU:CD2	1:O:467:PHE:CD2	2.92	0.44
1:O:54:ALA:O	1:O:58:THR:N	2.48	0.44
1:P:20:GLU:HG3	1:P:21:ASP:N	2.33	0.44
1:P:905:VAL:HG13	1:P:906:ASP:N	2.33	0.44
1:A:1036:VAL:HG12	1:A:1037:ASP:H	1.83	0.44
1:A:440:HIS:O	1:A:444:VAL:HG23	2.18	0.44
1:A:499:GLN:CD	1:A:516:ASN:HB3	2.38	0.44
1:A:902:ILE:HD13	1:A:930:HIS:CE1	2.43	0.44
1:B:317:LEU:O	1:B:318:THR:CB	2.61	0.44
1:B:409:SER:O	1:B:411:VAL:N	2.51	0.44
1:B:508:TRP:C	1:B:606:GLY:N	2.70	0.44
1:B:879:SER:N	1:B:880:GLU:OE1	2.51	0.44
1:C:341:TRP:O	1:C:341:TRP:CE3	2.70	0.44
1:C:388:LEU:HB3	1:C:446:HIS:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:417:GLU:O	1:C:417:GLU:HG2	2.18	0.44
1:C:461:PRO:O	1:C:461:PRO:HG2	2.18	0.44
1:C:862:ILE:HG23	1:C:863:THR:H	1.83	0.44
1:C:879:SER:N	1:C:880:GLU:OE1	2.51	0.44
1:D:234:SER:OG	1:D:235:LYS:N	2.51	0.44
1:D:266:THR:HG22	1:D:268:PHE:N	2.33	0.44
1:D:629:GLN:HG2	1:D:651:SER:H	1.83	0.44
1:E:1139:ASP:O	1:E:1140:SER:OG	2.35	0.44
1:E:154:GLY:O	1:E:155:SER:OG	2.35	0.44
1:E:373:SER:CB	1:E:433:LEU:CD1	2.73	0.44
1:E:646:ARG:HG3	1:E:648:GLU:HG3	2.00	0.44
1:F:409:SER:O	1:F:411:VAL:N	2.51	0.44
1:F:458:LEU:CA	1:F:587:ARG:HH21	2.30	0.44
1:F:799:ASN:C	1:F:800:THR:CG2	2.86	0.44
1:G:122:LYS:O	1:G:303:LYS:NZ	2.38	0.44
1:G:148:LEU:HD23	1:G:264:LEU:HB2	2.00	0.44
1:G:629:GLN:HG2	1:G:651:SER:H	1.83	0.44
1:G:905:VAL:HG13	1:G:906:ASP:N	2.33	0.44
1:G:91:PRO:O	1:G:94:THR:OG1	2.21	0.44
1:H:182:ASN:HD22	1:H:245:LEU:HB2	1.83	0.44
1:H:148:LEU:HD23	1:H:264:LEU:HB2	2.00	0.44
1:I:491:PHE:CD1	1:I:491:PHE:N	2.83	0.44
1:I:799:ASN:C	1:I:800:THR:CG2	2.86	0.44
1:I:905:VAL:HG13	1:I:906:ASP:N	2.33	0.44
1:J:154:GLY:O	1:J:155:SER:OG	2.35	0.44
1:J:276:SER:OG	1:K:122:LYS:HG3	2.18	0.44
1:J:463:LEU:CD2	1:J:467:PHE:HD2	2.31	0.44
1:J:508:TRP:O	1:J:606:GLY:CA	2.63	0.44
1:J:646:ARG:HG3	1:J:648:GLU:HG3	2.00	0.44
1:K:1000:ILE:HD11	1:K:1014:ALA:HB3	2.00	0.44
1:K:1188:LYS:HG3	1:K:1189:ALA:H	1.82	0.44
1:K:463:LEU:CD2	1:K:467:PHE:HD2	2.31	0.44
1:L:957:ILE:HG13	1:L:1248:LEU:HD22	1.99	0.44
1:L:862:ILE:HG23	1:L:863:THR:H	1.83	0.44
1:M:317:LEU:O	1:M:318:THR:CB	2.61	0.44
1:M:453:PHE:CE1	1:M:460:PRO:HB3	2.51	0.44
1:N:154:GLY:O	1:N:155:SER:OG	2.35	0.44
1:O:182:ASN:HD22	1:O:245:LEU:HB2	1.83	0.44
1:O:243:VAL:HG13	1:O:263:LEU:HD22	2.00	0.44
1:O:148:LEU:HD23	1:O:264:LEU:HB2	2.00	0.44
1:O:440:HIS:O	1:O:444:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:417:GLU:HG2	1:P:417:GLU:O	2.18	0.44
1:P:388:LEU:HB3	1:P:446:HIS:CE1	2.52	0.44
1:P:542:ILE:HA	1:P:545:PHE:HD2	1.82	0.44
1:P:458:LEU:HA	1:P:587:ARG:HH21	1.80	0.44
1:A:154:GLY:O	1:A:155:SER:OG	2.35	0.43
1:B:243:VAL:HG13	1:B:263:LEU:HD22	2.00	0.43
1:B:461:PRO:O	1:B:461:PRO:HG2	2.18	0.43
1:C:1188:LYS:HG3	1:C:1189:ALA:H	1.82	0.43
1:C:120:PHE:CE1	1:C:159:TRP:CE3	3.05	0.43
1:C:20:GLU:HG3	1:C:21:ASP:N	2.33	0.43
1:C:243:VAL:HG13	1:C:263:LEU:HD22	2.00	0.43
1:C:491:PHE:CD1	1:C:491:PHE:N	2.83	0.43
1:C:543:LEU:HA	1:C:546:LEU:CD1	2.48	0.43
1:C:915:TYR:CE2	1:C:916:LYS:HE3	2.53	0.43
1:D:1188:LYS:HG3	1:D:1189:ALA:H	1.82	0.43
1:D:182:ASN:HD22	1:D:245:LEU:HB2	1.83	0.43
1:D:463:LEU:CD2	1:D:467:PHE:HD2	2.31	0.43
1:D:905:VAL:HG13	1:D:906:ASP:N	2.33	0.43
1:E:1000:ILE:HD11	1:E:1014:ALA:HB3	2.00	0.43
1:E:200:LEU:HA	1:E:200:LEU:HD12	1.74	0.43
1:E:201:TYR:CE2	1:F:223:SER:OG	2.70	0.43
1:F:148:LEU:HD23	1:F:264:LEU:HB2	2.00	0.43
1:F:341:TRP:O	1:F:341:TRP:CE3	2.71	0.43
1:G:1036:VAL:HG12	1:G:1037:ASP:H	1.83	0.43
1:G:1098:LEU:HG	1:G:1111:GLU:HG2	1.99	0.43
1:G:458:LEU:HA	1:G:587:ARG:HH21	1.80	0.43
1:H:1036:VAL:HG12	1:H:1037:ASP:H	1.83	0.43
1:I:341:TRP:CE3	1:I:341:TRP:O	2.71	0.43
1:J:1000:ILE:HD11	1:J:1014:ALA:HB3	2.00	0.43
1:J:862:ILE:HG23	1:J:863:THR:H	1.83	0.43
1:K:1192:SER:OG	1:K:1208:GLU:OE2	2.28	0.43
1:K:244:LEU:HD21	1:K:256:PHE:CD2	2.51	0.43
1:K:799:ASN:C	1:K:800:THR:CG2	2.86	0.43
1:K:905:VAL:HG13	1:K:906:ASP:N	2.33	0.43
1:L:243:VAL:HG13	1:L:263:LEU:HD22	2.00	0.43
1:L:491:PHE:CD1	1:L:491:PHE:N	2.83	0.43
1:L:879:SER:N	1:L:880:GLU:OE1	2.51	0.43
1:L:915:TYR:CE2	1:L:916:LYS:HE3	2.53	0.43
1:M:157:LYS:N	2:M:1501:DTP:O1B	2.51	0.43
1:M:243:VAL:HG13	1:M:263:LEU:HD22	2.00	0.43
1:M:409:SER:O	1:M:411:VAL:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:102:MET:O	1:N:105:MET:N	2.46	0.43
1:N:440:HIS:O	1:N:444:VAL:HG23	2.18	0.43
1:O:499:GLN:CD	1:O:516:ASN:HB3	2.38	0.43
1:O:542:ILE:HA	1:O:545:PHE:HD2	1.82	0.43
1:P:1036:VAL:HG12	1:P:1037:ASP:H	1.83	0.43
1:P:244:LEU:HD21	1:P:256:PHE:CD2	2.51	0.43
1:P:148:LEU:HD23	1:P:264:LEU:HB2	2.00	0.43
1:P:629:GLN:HG2	1:P:651:SER:H	1.83	0.43
1:A:957:ILE:HG13	1:A:1248:LEU:HD22	1.99	0.43
1:A:292:LEU:HB2	1:A:319:THR:HB	1.99	0.43
1:B:1192:SER:OG	1:B:1208:GLU:OE2	2.28	0.43
1:B:157:LYS:N	2:B:1501:DTP:O2B	2.51	0.43
1:B:453:PHE:CE1	1:B:460:PRO:HB3	2.51	0.43
1:B:543:LEU:HA	1:B:546:LEU:CD1	2.49	0.43
1:B:629:GLN:HG2	1:B:651:SER:H	1.83	0.43
1:B:905:VAL:HG13	1:B:906:ASP:N	2.33	0.43
1:B:957:ILE:HG13	1:B:1248:LEU:HD22	1.99	0.43
1:C:999:ALA:HA	1:C:1019:LYS:HA	1.98	0.43
1:E:1036:VAL:HG12	1:E:1037:ASP:H	1.83	0.43
1:E:957:ILE:HG13	1:E:1248:LEU:HD22	1.99	0.43
1:E:182:ASN:HD22	1:E:245:LEU:HB2	1.83	0.43
1:D:122:LYS:HG3	1:E:276:SER:CB	2.49	0.43
1:E:388:LEU:HB3	1:E:446:HIS:CE1	2.52	0.43
1:E:862:ILE:HG23	1:E:863:THR:H	1.84	0.43
1:F:122:LYS:O	1:F:303:LYS:NZ	2.38	0.43
1:F:200:LEU:HD12	1:F:200:LEU:HA	1.74	0.43
1:F:554:ILE:O	1:F:556:SER:N	2.45	0.43
1:F:902:ILE:HD13	1:F:930:HIS:CE1	2.43	0.43
1:F:905:VAL:HG13	1:F:906:ASP:N	2.33	0.43
1:F:915:TYR:CE2	1:F:916:LYS:HE3	2.54	0.43
1:G:557:LYS:CD	1:G:1223:GLN:HE21	2.30	0.43
1:G:234:SER:OG	1:G:235:LYS:N	2.51	0.43
1:G:244:LEU:HD21	1:G:256:PHE:CD2	2.51	0.43
1:G:417:GLU:HG2	1:G:417:GLU:O	2.18	0.43
1:H:243:VAL:HG13	1:H:263:LEU:HD22	2.00	0.43
1:H:392:ASP:OD1	1:H:393:VAL:N	2.47	0.43
1:H:499:GLN:CD	1:H:516:ASN:HB3	2.38	0.43
1:I:120:PHE:CE1	1:I:159:TRP:CE3	3.05	0.43
1:I:182:ASN:HD22	1:I:245:LEU:HB2	1.83	0.43
1:I:463:LEU:CD2	1:I:467:PHE:CD2	2.92	0.43
1:I:443:ILE:HG13	1:I:477:ASN:ND2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:915:TYR:CE2	1:I:916:LYS:HE3	2.53	0.43
1:J:957:ILE:HG13	1:J:1248:LEU:HD22	1.99	0.43
1:J:182:ASN:HD22	1:J:245:LEU:HB2	1.83	0.43
1:J:388:LEU:HB3	1:J:446:HIS:CE1	2.52	0.43
1:K:20:GLU:HG3	1:K:21:ASP:N	2.33	0.43
1:K:182:ASN:HD22	1:K:245:LEU:HB2	1.83	0.43
1:K:264:LEU:HA	1:K:264:LEU:HD23	1.74	0.43
1:K:266:THR:HG22	1:K:268:PHE:N	2.33	0.43
1:K:73:VAL:O	1:K:76:PHE:N	2.52	0.43
1:L:1098:LEU:HG	1:L:1111:GLU:HG2	1.99	0.43
1:L:152:VAL:O	1:L:155:SER:OG	2.29	0.43
1:L:120:PHE:CE1	1:L:159:TRP:CE3	3.05	0.43
1:L:443:ILE:HG13	1:L:477:ASN:ND2	2.34	0.43
1:L:461:PRO:O	1:L:461:PRO:HG2	2.18	0.43
1:L:543:LEU:HA	1:L:546:LEU:CD1	2.48	0.43
1:L:799:ASN:C	1:L:800:THR:CG2	2.86	0.43
1:M:957:ILE:HG13	1:M:1248:LEU:HD22	1.99	0.43
1:M:443:ILE:HG13	1:M:477:ASN:ND2	2.34	0.43
1:M:517:THR:HA	1:M:520:GLN:OE1	2.18	0.43
1:M:629:GLN:HG2	1:M:651:SER:H	1.83	0.43
1:M:905:VAL:HG13	1:M:906:ASP:N	2.33	0.43
1:D:97:ARG:NH2	1:M:97:ARG:NH2	2.66	0.43
1:N:1000:ILE:HD11	1:N:1014:ALA:HB3	2.00	0.43
1:N:957:ILE:HG13	1:N:1248:LEU:HD22	1.99	0.43
1:N:148:LEU:HD23	1:N:264:LEU:HB2	2.00	0.43
1:N:266:THR:HG22	1:N:268:PHE:N	2.33	0.43
1:N:451:LYS:CD	1:N:486:LEU:HD21	2.33	0.43
1:N:499:GLN:CD	1:N:516:ASN:HB3	2.39	0.43
1:P:1098:LEU:HG	1:P:1111:GLU:HG2	1.99	0.43
1:P:154:GLY:O	1:P:155:SER:OG	2.35	0.43
1:P:234:SER:OG	1:P:235:LYS:N	2.51	0.43
1:A:1000:ILE:HD11	1:A:1014:ALA:HB3	2.00	0.43
1:A:102:MET:O	1:A:105:MET:N	2.46	0.43
1:A:243:VAL:HG13	1:A:263:LEU:HD22	2.00	0.43
1:A:266:THR:HG22	1:A:268:PHE:N	2.33	0.43
1:A:285:LEU:HA	1:A:285:LEU:HD23	1.74	0.43
1:A:382:PRO:HA	1:A:419:THR:CG2	2.36	0.43
1:A:799:ASN:C	1:A:800:THR:CG2	2.86	0.43
1:A:879:SER:N	1:A:880:GLU:OE1	2.51	0.43
1:B:443:ILE:HG13	1:B:477:ASN:ND2	2.34	0.43
1:B:517:THR:HA	1:B:520:GLN:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:443:ILE:HG13	1:C:477:ASN:ND2	2.34	0.43
1:C:875:LEU:CD1	1:C:911:PHE:HD2	2.07	0.43
1:D:73:VAL:O	1:D:76:PHE:N	2.52	0.43
1:D:799:ASN:C	1:D:800:THR:CG2	2.86	0.43
1:E:148:LEU:HD23	1:E:264:LEU:HB2	2.00	0.43
1:E:905:VAL:HG13	1:E:906:ASP:N	2.33	0.43
1:F:1036:VAL:HG12	1:F:1037:ASP:H	1.83	0.43
1:F:120:PHE:CE1	1:F:159:TRP:CE3	3.05	0.43
1:F:443:ILE:HG13	1:F:477:ASN:ND2	2.34	0.43
1:F:542:ILE:HA	1:F:545:PHE:HD2	1.82	0.43
1:F:638:GLU:OE1	1:F:640:GLU:N	2.42	0.43
1:G:154:GLY:O	1:G:155:SER:OG	2.35	0.43
1:G:200:LEU:HA	1:G:200:LEU:HD12	1.74	0.43
1:H:557:LYS:CD	1:H:1223:GLN:HE21	2.30	0.43
1:H:443:ILE:HG13	1:H:477:ASN:ND2	2.34	0.43
1:H:553:LEU:HA	1:H:553:LEU:HD23	1.90	0.43
1:I:200:LEU:HD12	1:I:200:LEU:HA	1.74	0.43
1:J:1036:VAL:HG12	1:J:1037:ASP:H	1.83	0.43
1:J:1139:ASP:O	1:J:1140:SER:OG	2.35	0.43
1:J:1192:SER:OG	1:J:1208:GLU:OE2	2.28	0.43
1:J:461:PRO:HG2	1:J:461:PRO:O	2.18	0.43
1:J:905:VAL:HG13	1:J:906:ASP:N	2.33	0.43
1:L:200:LEU:HD12	1:L:200:LEU:HA	1.74	0.43
1:M:543:LEU:HA	1:M:546:LEU:CD1	2.49	0.43
1:M:799:ASN:C	1:M:800:THR:CG2	2.86	0.43
1:N:243:VAL:HG13	1:N:263:LEU:HD22	2.00	0.43
1:N:543:LEU:HA	1:N:546:LEU:CD1	2.48	0.43
1:N:799:ASN:C	1:N:800:THR:CG2	2.86	0.43
1:O:957:ILE:HG13	1:O:1248:LEU:HD22	1.99	0.43
1:O:392:ASP:OD1	1:O:393:VAL:N	2.47	0.43
1:O:443:ILE:HG13	1:O:477:ASN:ND2	2.34	0.43
1:P:557:LYS:CD	1:P:1223:GLN:HE21	2.30	0.43
1:P:879:SER:N	1:P:880:GLU:OE1	2.51	0.43
1:A:182:ASN:HD22	1:A:245:LEU:HB2	1.83	0.43
1:A:417:GLU:O	1:A:417:GLU:HG2	2.18	0.43
1:A:543:LEU:HA	1:A:546:LEU:CD1	2.49	0.43
1:B:799:ASN:C	1:B:800:THR:CG2	2.86	0.43
1:C:799:ASN:C	1:C:800:THR:CG2	2.86	0.43
1:C:901:HIS:O	1:C:902:ILE:HB	2.18	0.43
1:D:20:GLU:HG3	1:D:21:ASP:N	2.33	0.43
1:D:361:GLU:HB2	1:D:364:GLU:HB3	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:388:LEU:HB3	1:D:446:HIS:CE1	2.52	0.43
1:D:879:SER:N	1:D:880:GLU:OE1	2.51	0.43
1:E:243:VAL:C	1:E:244:LEU:HD12	2.39	0.43
1:E:54:ALA:O	1:E:57:GLY:N	2.52	0.43
1:E:73:VAL:O	1:E:76:PHE:N	2.52	0.43
1:F:1000:ILE:HD11	1:F:1014:ALA:HB3	2.00	0.43
1:F:182:ASN:HD22	1:F:245:LEU:HB2	1.83	0.43
1:F:251:APK:H2'	1:F:251:APK:H8	1.73	0.43
1:G:266:THR:HG22	1:G:268:PHE:N	2.33	0.43
1:G:453:PHE:CE2	1:G:460:PRO:HB3	2.49	0.43
1:G:903:GLU:HG3	1:G:904:CYS:H	1.84	0.43
1:H:957:ILE:HG13	1:H:1248:LEU:HD22	1.99	0.43
1:H:461:PRO:HG2	1:H:461:PRO:O	2.18	0.43
1:H:451:LYS:CD	1:H:486:LEU:HD21	2.33	0.43
1:H:543:LEU:HA	1:H:546:LEU:CD1	2.49	0.43
1:I:1036:VAL:HG12	1:I:1037:ASP:H	1.83	0.43
1:I:388:LEU:HB3	1:I:446:HIS:CE1	2.52	0.43
1:I:542:ILE:HA	1:I:545:PHE:HD2	1.82	0.43
1:I:54:ALA:O	1:I:57:GLY:N	2.52	0.43
1:I:73:VAL:O	1:I:76:PHE:N	2.52	0.43
1:J:243:VAL:C	1:J:244:LEU:HD12	2.39	0.43
1:J:148:LEU:HD23	1:J:264:LEU:HB2	2.00	0.43
1:J:54:ALA:O	1:J:57:GLY:N	2.52	0.43
1:J:73:VAL:O	1:J:76:PHE:N	2.52	0.43
1:K:292:LEU:HB2	1:K:319:THR:HB	2.00	0.43
1:K:361:GLU:HB2	1:K:364:GLU:HB3	1.98	0.43
1:K:388:LEU:HB3	1:K:446:HIS:CE1	2.52	0.43
1:K:399:MET:HG3	1:L:335:LEU:HD21	1.99	0.43
1:K:499:GLN:CD	1:K:516:ASN:HB3	2.38	0.43
1:K:879:SER:N	1:K:880:GLU:OE1	2.51	0.43
1:L:102:MET:O	1:L:105:MET:N	2.46	0.43
1:L:124:ASN:HA	2:L:1501:DTP:C2	2.49	0.43
1:L:440:HIS:O	1:L:444:VAL:HG23	2.18	0.43
1:L:73:VAL:O	1:L:76:PHE:N	2.52	0.43
1:M:231:LEU:O	1:M:234:SER:OG	2.26	0.43
1:N:1177:TYR:HE2	1:O:916:LYS:CE	2.30	0.43
1:N:292:LEU:HB2	1:N:319:THR:HB	1.99	0.43
1:N:417:GLU:HG2	1:N:417:GLU:O	2.18	0.43
1:N:54:ALA:O	1:N:57:GLY:N	2.52	0.43
1:N:879:SER:N	1:N:880:GLU:OE1	2.51	0.43
1:N:903:GLU:HG3	1:N:904:CYS:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:154:GLY:O	1:O:155:SER:OG	2.35	0.43
1:O:301:LEU:CD2	1:O:313:PRO:CG	2.87	0.43
1:O:461:PRO:HG2	1:O:461:PRO:O	2.18	0.43
1:O:557:LYS:CD	1:O:1223:GLN:HE21	2.30	0.43
1:O:905:VAL:HG13	1:O:906:ASP:N	2.33	0.43
1:P:200:LEU:HA	1:P:200:LEU:HD12	1.74	0.43
1:A:148:LEU:HD23	1:A:264:LEU:HB2	2.00	0.43
1:A:535:TYR:O	1:A:538:LEU:HB3	2.19	0.43
1:A:54:ALA:O	1:A:57:GLY:N	2.52	0.43
1:A:903:GLU:HG3	1:A:904:CYS:H	1.84	0.43
1:B:1000:ILE:HD11	1:B:1014:ALA:HB3	2.00	0.43
1:B:535:TYR:O	1:B:538:LEU:HB3	2.19	0.43
1:B:584:PHE:HB3	1:B:585:ASP:H	1.61	0.43
1:C:1075:SER:OG	1:C:1094:ASP:O	2.29	0.43
1:C:382:PRO:HA	1:C:419:THR:CG2	2.36	0.43
1:C:629:GLN:HG2	1:C:651:SER:H	1.83	0.43
1:D:243:VAL:HG13	1:D:263:LEU:HD22	2.00	0.43
1:D:543:LEU:HA	1:D:546:LEU:CD1	2.48	0.43
1:E:124:ASN:HA	2:E:1501:DTP:C2	2.49	0.43
1:E:243:VAL:HG13	1:E:263:LEU:HD22	2.00	0.43
1:E:535:TYR:O	1:E:538:LEU:HB3	2.19	0.43
1:F:121:ALA:HB1	1:G:276:SER:CB	2.31	0.43
1:F:20:GLU:HG3	1:F:21:ASP:N	2.33	0.43
1:F:243:VAL:C	1:F:244:LEU:HD12	2.39	0.43
1:F:542:ILE:HA	1:F:545:PHE:CD2	2.54	0.43
1:F:73:VAL:O	1:F:76:PHE:N	2.52	0.43
1:G:182:ASN:HD22	1:G:245:LEU:HB2	1.83	0.43
1:G:73:VAL:O	1:G:76:PHE:N	2.52	0.43
1:G:879:SER:N	1:G:880:GLU:OE1	2.51	0.43
1:H:905:VAL:HG13	1:H:906:ASP:N	2.33	0.43
1:I:1000:ILE:HD11	1:I:1014:ALA:HB3	2.00	0.43
1:I:1195:VAL:HG11	1:I:1241:PHE:CZ	2.54	0.43
1:I:264:LEU:HA	1:I:264:LEU:HD23	1.74	0.43
1:J:243:VAL:HG13	1:J:263:LEU:HD22	2.00	0.43
1:J:535:TYR:O	1:J:538:LEU:HB3	2.19	0.43
1:K:243:VAL:HG13	1:K:263:LEU:HD22	2.00	0.43
1:K:251:APK:H2'	1:K:251:APK:H8	1.73	0.43
1:K:376:PRO:HA	1:K:377:PRO:HD3	1.89	0.43
1:K:461:PRO:HG2	1:K:461:PRO:O	2.18	0.43
1:K:481:PRO:O	1:K:485:THR:HG23	2.19	0.43
1:K:451:LYS:CD	1:K:486:LEU:HD21	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:543:LEU:HA	1:K:546:LEU:CD1	2.48	0.43
1:L:1201:THR:OG1	1:L:1202:MET:N	2.48	0.43
1:L:234:SER:OG	1:L:235:LYS:N	2.51	0.43
1:L:382:PRO:HA	1:L:419:THR:CG2	2.36	0.43
1:M:535:TYR:O	1:M:538:LEU:HB3	2.19	0.43
1:N:182:ASN:HD22	1:N:245:LEU:HB2	1.83	0.43
1:N:535:TYR:O	1:N:538:LEU:HB3	2.19	0.43
1:O:543:LEU:HA	1:O:546:LEU:CD1	2.49	0.43
1:P:266:THR:HG22	1:P:268:PHE:N	2.33	0.43
1:P:147:VAL:HG12	1:P:281:THR:OG1	2.19	0.43
1:P:453:PHE:CE2	1:P:460:PRO:HB3	2.49	0.43
1:P:73:VAL:O	1:P:76:PHE:N	2.52	0.43
1:P:903:GLU:HG3	1:P:904:CYS:H	1.84	0.43
1:A:409:SER:O	1:A:411:VAL:N	2.51	0.43
1:A:453:PHE:CE2	1:A:460:PRO:HB3	2.49	0.43
1:A:443:ILE:HG13	1:A:477:ASN:ND2	2.34	0.43
1:A:905:VAL:HG13	1:A:906:ASP:N	2.33	0.43
1:B:231:LEU:O	1:B:234:SER:OG	2.26	0.43
1:B:481:PRO:O	1:B:485:THR:HG23	2.19	0.43
1:B:54:ALA:O	1:B:57:GLY:N	2.52	0.43
1:C:1158:TYR:HB3	1:C:1162:ILE:HG23	2.01	0.43
1:C:124:ASN:HA	2:C:1501:DTP:C2	2.49	0.43
1:C:481:PRO:O	1:C:485:THR:HG23	2.19	0.43
1:C:73:VAL:O	1:C:76:PHE:N	2.52	0.43
1:C:903:GLU:HG3	1:C:904:CYS:H	1.84	0.43
1:D:1192:SER:OG	1:D:1208:GLU:OE2	2.28	0.43
1:D:376:PRO:HA	1:D:377:PRO:HD3	1.89	0.43
1:D:443:ILE:HG13	1:D:477:ASN:ND2	2.34	0.43
1:D:461:PRO:HG2	1:D:461:PRO:O	2.18	0.43
1:D:481:PRO:O	1:D:485:THR:HG23	2.19	0.43
1:D:499:GLN:CD	1:D:516:ASN:HB3	2.38	0.43
1:D:535:TYR:O	1:D:538:LEU:HB3	2.19	0.43
1:D:646:ARG:HG3	1:D:648:GLU:HG3	2.00	0.43
1:E:130:PRO:HA	1:E:290:MET:HE3	2.01	0.43
1:E:461:PRO:HG2	1:E:461:PRO:O	2.18	0.43
1:E:901:HIS:O	1:E:902:ILE:HB	2.18	0.43
1:F:154:GLY:O	1:F:155:SER:OG	2.35	0.43
1:F:417:GLU:O	1:F:417:GLU:HG2	2.18	0.43
1:F:988:ASP:OD1	1:F:989:SER:N	2.43	0.43
1:G:264:LEU:HD23	1:G:264:LEU:HA	1.74	0.43
1:G:147:VAL:HG12	1:G:281:THR:OG1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:499:GLN:CD	1:G:516:ASN:HB3	2.39	0.43
1:G:957:ILE:HG13	1:G:1248:LEU:HD22	1.99	0.43
1:H:154:GLY:O	1:H:155:SER:OG	2.36	0.43
1:H:285:LEU:HD23	1:H:285:LEU:HA	1.74	0.43
1:H:301:LEU:CD2	1:H:313:PRO:CG	2.87	0.43
1:H:324:LEU:HD12	1:H:324:LEU:HA	1.61	0.43
1:H:903:GLU:HG3	1:H:904:CYS:H	1.84	0.43
1:I:1177:TYR:HE2	1:J:916:LYS:HE2	1.83	0.43
1:I:243:VAL:C	1:I:244:LEU:HD12	2.39	0.43
1:I:542:ILE:HA	1:I:545:PHE:CD2	2.54	0.43
1:J:124:ASN:HA	2:J:1501:DTP:C2	2.49	0.43
1:J:373:SER:CB	1:J:433:LEU:CD1	2.73	0.43
1:K:535:TYR:O	1:K:538:LEU:HB3	2.19	0.43
1:K:646:ARG:HG3	1:K:648:GLU:HG3	2.00	0.43
1:L:1075:SER:OG	1:L:1094:ASP:O	2.29	0.43
1:L:113:LEU:HD12	1:L:113:LEU:HA	1.83	0.43
1:L:901:HIS:O	1:L:902:ILE:HB	2.18	0.43
1:M:1000:ILE:HD11	1:M:1014:ALA:HB3	2.00	0.43
1:M:182:ASN:HD22	1:M:245:LEU:HB2	1.83	0.43
1:M:417:GLU:O	1:M:417:GLU:HG2	2.18	0.43
1:M:481:PRO:O	1:M:485:THR:HG23	2.19	0.43
1:M:54:ALA:O	1:M:57:GLY:N	2.52	0.43
1:N:392:ASP:OD1	1:N:393:VAL:N	2.47	0.43
1:N:443:ILE:HG13	1:N:477:ASN:ND2	2.34	0.43
1:N:905:VAL:HG13	1:N:906:ASP:N	2.33	0.43
1:O:629:GLN:HG2	1:O:651:SER:H	1.83	0.43
1:P:957:ILE:HG13	1:P:1248:LEU:HD22	1.99	0.43
1:P:141:LEU:O	1:P:141:LEU:HD12	2.19	0.43
1:P:182:ASN:HD22	1:P:245:LEU:HB2	1.83	0.43
1:P:499:GLN:CD	1:P:516:ASN:HB3	2.38	0.43
1:A:1158:TYR:HB3	1:A:1162:ILE:HG23	2.01	0.43
1:A:141:LEU:O	1:A:141:LEU:HD12	2.19	0.43
1:A:324:LEU:HA	1:A:324:LEU:HD12	1.61	0.43
1:A:553:LEU:HA	1:A:553:LEU:HD23	1.90	0.43
1:A:799:ASN:O	1:A:800:THR:CG2	2.67	0.43
1:B:1158:TYR:HB3	1:B:1162:ILE:HG23	2.01	0.43
1:B:1188:LYS:HG3	1:B:1189:ALA:H	1.82	0.43
1:B:342:LYS:HG3	1:B:343:HIS:N	2.34	0.43
1:B:417:GLU:O	1:B:417:GLU:HG2	2.18	0.43
1:C:244:LEU:HD21	1:C:256:PHE:CD2	2.51	0.43
1:C:799:ASN:O	1:C:800:THR:CG2	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:141:LEU:O	1:D:141:LEU:HD12	2.19	0.43
1:D:292:LEU:HB2	1:D:319:THR:HB	1.99	0.43
1:D:541:ALA:O	1:D:543:LEU:N	2.52	0.43
1:E:1192:SER:OG	1:E:1208:GLU:OE2	2.28	0.43
1:E:541:ALA:O	1:E:543:LEU:N	2.52	0.43
1:F:147:VAL:HG12	1:F:281:THR:OG1	2.19	0.43
1:F:54:ALA:O	1:F:57:GLY:N	2.52	0.43
1:G:542:ILE:HA	1:G:545:PHE:CD2	2.54	0.43
1:H:629:GLN:HG2	1:H:651:SER:H	1.83	0.43
1:H:799:ASN:O	1:H:800:THR:CG2	2.67	0.43
1:I:147:VAL:HG12	1:I:281:THR:OG1	2.19	0.43
1:I:154:GLY:O	1:I:155:SER:OG	2.35	0.43
1:I:508:TRP:CD1	1:I:604:ASN:HB2	2.54	0.43
1:I:879:SER:N	1:I:880:GLU:OE1	2.51	0.43
1:J:130:PRO:HA	1:J:290:MET:HE3	2.01	0.43
1:J:541:ALA:O	1:J:543:LEU:N	2.52	0.43
1:J:458:LEU:HA	1:J:587:ARG:HH21	1.80	0.43
1:J:142:ARG:HH22	1:K:14:ASP:CG	2.22	0.43
1:K:243:VAL:C	1:K:244:LEU:HD12	2.39	0.43
1:K:443:ILE:HG13	1:K:477:ASN:ND2	2.34	0.43
1:K:541:ALA:O	1:K:543:LEU:N	2.52	0.43
1:K:54:ALA:O	1:K:57:GLY:N	2.52	0.43
1:K:257:ASN:OD1	1:L:115:ASN:HB3	2.19	0.43
1:L:20:GLU:HG3	1:L:21:ASP:N	2.33	0.43
1:L:481:PRO:O	1:L:485:THR:HG23	2.19	0.43
1:L:629:GLN:HG2	1:L:651:SER:H	1.83	0.43
1:L:903:GLU:HG3	1:L:904:CYS:H	1.84	0.43
1:M:1188:LYS:HG3	1:M:1189:ALA:H	1.82	0.43
1:N:1158:TYR:HB3	1:N:1162:ILE:HG23	2.01	0.43
1:N:141:LEU:HD12	1:N:141:LEU:O	2.19	0.43
1:N:285:LEU:HD23	1:N:285:LEU:HA	1.74	0.43
1:N:409:SER:O	1:N:411:VAL:N	2.51	0.43
1:N:633:THR:HG22	1:N:643:TYR:HA	1.97	0.43
1:N:862:ILE:HG23	1:N:863:THR:H	1.83	0.43
1:O:147:VAL:HG12	1:O:281:THR:OG1	2.19	0.43
1:O:641:ASP:OD1	1:O:642:THR:N	2.45	0.43
1:O:799:ASN:O	1:O:800:THR:CG2	2.67	0.43
1:P:463:LEU:CD2	1:P:467:PHE:HD2	2.31	0.43
1:P:543:LEU:HA	1:P:546:LEU:CD1	2.48	0.43
1:P:862:ILE:HG23	1:P:863:THR:H	1.83	0.43
1:A:392:ASP:OD1	1:A:393:VAL:N	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:862:ILE:HG23	1:A:863:THR:H	1.83	0.43
1:B:903:GLU:HG3	1:B:904:CYS:H	1.84	0.43
1:C:148:LEU:HD23	1:C:264:LEU:HB2	2.00	0.43
1:C:440:HIS:O	1:C:444:VAL:HG23	2.18	0.43
1:D:243:VAL:C	1:D:244:LEU:HD12	2.39	0.43
1:D:342:LYS:HG3	1:D:343:HIS:N	2.34	0.43
1:D:54:ALA:O	1:D:57:GLY:N	2.52	0.43
1:D:915:TYR:CE2	1:D:916:LYS:HE3	2.54	0.43
1:E:244:LEU:HD21	1:E:256:PHE:CD2	2.51	0.43
1:E:410:LEU:CD2	1:E:413:LYS:HA	2.49	0.43
1:E:542:ILE:HA	1:E:545:PHE:CD2	2.54	0.43
1:F:141:LEU:HD12	1:F:141:LEU:O	2.19	0.43
1:F:508:TRP:CD1	1:F:604:ASN:HB2	2.54	0.43
1:F:879:SER:N	1:F:880:GLU:OE1	2.51	0.43
1:G:141:LEU:O	1:G:141:LEU:HD12	2.19	0.43
1:G:124:ASN:HA	2:G:1501:DTP:C2	2.49	0.43
1:G:443:ILE:HG13	1:G:477:ASN:ND2	2.34	0.43
1:G:543:LEU:HA	1:G:546:LEU:CD1	2.49	0.43
1:G:862:ILE:HG23	1:G:863:THR:H	1.83	0.43
1:H:124:ASN:HA	2:H:1501:DTP:C2	2.49	0.43
1:H:147:VAL:HG12	1:H:281:THR:OG1	2.19	0.43
1:H:453:PHE:CE2	1:H:460:PRO:HB3	2.49	0.43
1:H:535:TYR:O	1:H:538:LEU:HB3	2.19	0.43
1:H:542:ILE:HA	1:H:545:PHE:CD2	2.54	0.43
1:H:641:ASP:OD1	1:H:642:THR:N	2.45	0.43
1:I:130:PRO:HA	1:I:290:MET:HE3	2.01	0.43
1:I:417:GLU:O	1:I:417:GLU:HG2	2.18	0.43
1:I:541:ALA:O	1:I:543:LEU:N	2.52	0.43
1:I:633:THR:HG22	1:I:643:TYR:HA	1.97	0.43
1:J:244:LEU:HD21	1:J:256:PHE:CD2	2.51	0.43
1:J:410:LEU:CD2	1:J:413:LYS:HA	2.49	0.43
1:J:508:TRP:CD1	1:J:604:ASN:HB2	2.54	0.43
1:J:518:LEU:CD1	1:J:518:LEU:N	2.81	0.43
1:J:542:ILE:HA	1:J:545:PHE:CD2	2.54	0.43
1:K:102:MET:O	1:K:105:MET:N	2.46	0.43
1:K:141:LEU:O	1:K:141:LEU:HD12	2.19	0.43
1:L:1158:TYR:HB3	1:L:1162:ILE:HG23	2.01	0.43
1:L:141:LEU:O	1:L:141:LEU:HD12	2.19	0.43
1:K:222:HIS:HD2	1:L:198:LYS:HG2	1.84	0.43
1:M:1158:TYR:HB3	1:M:1162:ILE:HG23	2.01	0.43
1:M:152:VAL:O	1:M:155:SER:OG	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:342:LYS:HG3	1:M:343:HIS:N	2.34	0.43
1:M:499:GLN:CD	1:M:516:ASN:HB3	2.38	0.43
1:M:584:PHE:HB3	1:M:585:ASP:H	1.61	0.43
1:N:514:ILE:HG22	1:N:515:LEU:O	2.19	0.43
1:N:553:LEU:HD23	1:N:553:LEU:HA	1.90	0.43
1:N:799:ASN:O	1:N:800:THR:CG2	2.67	0.43
1:N:901:HIS:O	1:N:902:ILE:HB	2.18	0.43
1:O:514:ILE:HG22	1:O:515:LEU:O	2.19	0.43
1:O:517:THR:CG2	1:O:518:LEU:N	2.81	0.43
1:O:517:THR:HA	1:O:520:GLN:OE1	2.18	0.43
1:O:535:TYR:O	1:O:538:LEU:HB3	2.19	0.43
1:O:553:LEU:HD23	1:O:553:LEU:HA	1.91	0.43
1:O:903:GLU:HG3	1:O:904:CYS:H	1.84	0.43
1:P:443:ILE:HG13	1:P:477:ASN:ND2	2.34	0.43
1:P:542:ILE:HA	1:P:545:PHE:CD2	2.54	0.43
1:P:508:TRP:CD1	1:P:604:ASN:HB2	2.54	0.43
1:A:251:APK:H8	1:A:251:APK:H2'	1.74	0.43
1:A:514:ILE:HG22	1:A:515:LEU:O	2.19	0.43
1:A:901:HIS:O	1:A:902:ILE:HB	2.18	0.43
1:A:915:TYR:CE2	1:A:916:LYS:HE3	2.53	0.43
1:B:124:ASN:HA	2:B:1501:DTP:C2	2.49	0.43
1:B:182:ASN:HD22	1:B:245:LEU:HB2	1.83	0.43
1:B:252:ALA:HB3	1:B:253:TRP:H	1.70	0.43
1:B:410:LEU:CD2	1:B:413:LYS:HA	2.49	0.43
1:B:499:GLN:CD	1:B:516:ASN:HB3	2.39	0.43
1:B:799:ASN:O	1:B:800:THR:CG2	2.67	0.43
1:C:1201:THR:OG1	1:C:1202:MET:N	2.48	0.43
1:C:141:LEU:O	1:C:141:LEU:HD12	2.19	0.43
1:D:102:MET:O	1:D:105:MET:N	2.46	0.43
1:D:957:ILE:HG13	1:D:1248:LEU:HD22	1.99	0.43
1:D:124:ASN:OD1	1:D:124:ASN:C	2.58	0.43
1:D:148:LEU:HD23	1:D:264:LEU:HB2	2.00	0.43
1:D:285:LEU:HA	1:D:285:LEU:HD23	1.74	0.43
1:E:11:GLN:O	1:E:14:ASP:N	2.46	0.43
1:E:124:ASN:OD1	1:E:124:ASN:C	2.58	0.43
1:E:518:LEU:N	1:E:518:LEU:CD1	2.81	0.43
1:F:541:ALA:O	1:F:543:LEU:N	2.52	0.43
1:F:633:THR:HG22	1:F:643:TYR:HA	1.97	0.43
1:G:989:SER:HB2	1:G:1027:ASN:HA	2.01	0.43
1:G:243:VAL:HG13	1:G:263:LEU:HD22	2.00	0.43
1:G:463:LEU:CD2	1:G:467:PHE:HD2	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:54:ALA:O	1:G:57:GLY:N	2.52	0.43
1:H:481:PRO:O	1:H:485:THR:HG23	2.19	0.43
1:H:514:ILE:HG22	1:H:515:LEU:O	2.19	0.43
1:H:517:THR:HA	1:H:520:GLN:OE1	2.18	0.43
1:H:541:ALA:O	1:H:543:LEU:N	2.52	0.43
1:I:141:LEU:HD12	1:I:141:LEU:O	2.19	0.43
1:I:20:GLU:HG3	1:I:21:ASP:N	2.33	0.43
1:I:243:VAL:HG13	1:I:263:LEU:HD22	2.00	0.43
1:J:11:GLN:O	1:J:14:ASP:N	2.46	0.43
1:J:901:HIS:O	1:J:902:ILE:HB	2.19	0.43
1:K:957:ILE:HG13	1:K:1248:LEU:HD22	1.99	0.43
1:K:124:ASN:C	1:K:124:ASN:OD1	2.58	0.43
1:K:915:TYR:CE2	1:K:916:LYS:HE3	2.54	0.43
1:L:244:LEU:HD21	1:L:256:PHE:CD2	2.50	0.43
1:L:324:LEU:HD12	1:L:324:LEU:HA	1.61	0.43
1:L:517:THR:HA	1:L:520:GLN:OE1	2.18	0.43
1:M:132:LEU:HD12	1:M:132:LEU:HA	1.79	0.43
1:M:410:LEU:CD2	1:M:413:LYS:HA	2.49	0.43
1:M:903:GLU:HG3	1:M:904:CYS:H	1.84	0.43
1:N:124:ASN:HA	2:N:1501:DTP:C2	2.49	0.43
1:N:453:PHE:CE2	1:N:460:PRO:HB3	2.49	0.43
1:O:124:ASN:HA	2:O:1501:DTP:C2	2.49	0.43
1:O:234:SER:OG	1:O:235:LYS:N	2.51	0.43
1:O:443:ILE:HG21	1:O:477:ASN:ND2	2.24	0.43
1:O:451:LYS:CD	1:O:486:LEU:HD21	2.33	0.43
1:O:542:ILE:HA	1:O:545:PHE:CD2	2.54	0.43
1:O:541:ALA:O	1:O:543:LEU:N	2.52	0.43
1:O:54:ALA:O	1:O:57:GLY:N	2.52	0.43
1:P:1139:ASP:O	1:P:1140:SER:OG	2.35	0.43
1:P:124:ASN:HA	2:P:1501:DTP:C2	2.49	0.43
1:P:243:VAL:HG13	1:P:263:LEU:HD22	2.00	0.43
1:P:264:LEU:HA	1:P:264:LEU:HD23	1.75	0.43
1:P:461:PRO:HG2	1:P:461:PRO:O	2.18	0.43
1:B:132:LEU:HA	1:B:132:LEU:HD12	1.79	0.43
1:B:463:LEU:CD2	1:B:467:PHE:HD2	2.31	0.43
1:C:234:SER:OG	1:C:235:LYS:N	2.51	0.43
1:E:443:ILE:HG13	1:E:477:ASN:ND2	2.34	0.43
1:E:508:TRP:CD1	1:E:604:ASN:HB2	2.54	0.43
1:F:243:VAL:HG13	1:F:263:LEU:HD22	2.00	0.43
1:F:543:LEU:HA	1:F:546:LEU:CD1	2.48	0.43
1:F:799:ASN:O	1:F:800:THR:CG2	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:901:HIS:O	1:F:902:ILE:HB	2.19	0.43
1:G:1000:ILE:HD11	1:G:1014:ALA:HB3	2.00	0.43
1:G:461:PRO:HG2	1:G:461:PRO:O	2.18	0.43
1:G:508:TRP:CD1	1:G:604:ASN:HB2	2.54	0.43
1:H:1198:ASP:OD1	1:H:1199:ASP:N	2.50	0.43
1:H:234:SER:OG	1:H:235:LYS:N	2.51	0.43
1:H:305:LEU:HA	1:H:305:LEU:HD23	1.84	0.43
1:H:410:LEU:CD2	1:H:413:LYS:HA	2.49	0.43
1:H:443:ILE:HG21	1:H:477:ASN:ND2	2.24	0.43
1:H:517:THR:CG2	1:H:518:LEU:N	2.81	0.43
1:H:54:ALA:O	1:H:57:GLY:N	2.52	0.43
1:I:481:PRO:O	1:I:485:THR:HG23	2.19	0.43
1:J:124:ASN:OD1	1:J:124:ASN:C	2.58	0.43
1:J:305:LEU:HD23	1:J:305:LEU:HA	1.84	0.43
1:J:443:ILE:HG13	1:J:477:ASN:ND2	2.34	0.43
1:K:342:LYS:HG3	1:K:343:HIS:N	2.34	0.43
1:L:1036:VAL:HG12	1:L:1037:ASP:H	1.83	0.43
1:L:243:VAL:C	1:L:244:LEU:HD12	2.39	0.43
1:L:376:PRO:HA	1:L:377:PRO:HD3	1.89	0.43
1:L:410:LEU:CD2	1:L:413:LYS:HA	2.49	0.43
1:L:535:TYR:O	1:L:538:LEU:HB3	2.19	0.43
1:L:799:ASN:O	1:L:800:THR:CG2	2.67	0.43
1:M:124:ASN:HA	2:M:1501:DTP:C2	2.49	0.43
1:M:463:LEU:CD2	1:M:467:PHE:HD2	2.31	0.43
1:M:517:THR:CG2	1:M:518:LEU:N	2.81	0.43
1:M:799:ASN:O	1:M:800:THR:CG2	2.67	0.43
1:N:915:TYR:CE2	1:N:916:LYS:HE3	2.53	0.43
1:N:222:HIS:CG	1:O:198:LYS:HZ1	2.37	0.43
1:O:410:LEU:CD2	1:O:413:LYS:HA	2.49	0.43
1:O:481:PRO:O	1:O:485:THR:HG23	2.19	0.43
1:O:73:VAL:O	1:O:76:PHE:N	2.52	0.43
1:P:1000:ILE:HD11	1:P:1014:ALA:HB3	2.00	0.43
1:I:198:LYS:HZ2	1:P:222:HIS:CG	2.37	0.43
1:I:122:LYS:HG3	1:P:276:SER:CB	2.49	0.43
1:P:646:ARG:HG3	1:P:648:GLU:HG3	2.00	0.43
1:P:989:SER:HB2	1:P:1027:ASN:HA	2.01	0.43
1:A:1195:VAL:HG11	1:A:1241:PHE:CZ	2.54	0.42
1:A:124:ASN:HA	2:A:1501:DTP:C2	2.49	0.42
1:A:376:PRO:HA	1:A:377:PRO:HD3	1.89	0.42
1:B:148:LEU:HD23	1:B:264:LEU:HB2	2.00	0.42
1:B:541:ALA:O	1:B:543:LEU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:950:TRP:CZ3	1:B:952:HIS:HA	2.54	0.42
1:C:1036:VAL:HG12	1:C:1037:ASP:H	1.83	0.42
1:C:342:LYS:HG3	1:C:343:HIS:N	2.34	0.42
1:C:376:PRO:HA	1:C:377:PRO:HD3	1.89	0.42
1:C:535:TYR:O	1:C:538:LEU:HB3	2.19	0.42
1:C:54:ALA:O	1:C:57:GLY:N	2.52	0.42
1:E:1075:SER:OG	1:E:1094:ASP:O	2.29	0.42
1:E:514:ILE:HG22	1:E:515:LEU:O	2.19	0.42
1:E:517:THR:HA	1:E:520:GLN:OE1	2.19	0.42
1:F:124:ASN:OD1	1:F:124:ASN:C	2.58	0.42
1:F:481:PRO:O	1:F:485:THR:HG23	2.19	0.42
1:F:517:THR:HA	1:F:520:GLN:OE1	2.18	0.42
1:G:514:ILE:HG22	1:G:515:LEU:O	2.19	0.42
1:G:646:ARG:HG3	1:G:648:GLU:HG3	2.00	0.42
1:H:646:ARG:HG3	1:H:648:GLU:HG3	2.00	0.42
1:H:724:GLY:HA3	1:H:730:ILE:HD12	2.01	0.42
1:H:73:VAL:O	1:H:76:PHE:N	2.52	0.42
1:I:124:ASN:OD1	1:I:124:ASN:C	2.58	0.42
1:I:554:ILE:O	1:I:556:SER:N	2.45	0.42
1:I:799:ASN:O	1:I:800:THR:CG2	2.67	0.42
1:I:901:HIS:O	1:I:902:ILE:HB	2.18	0.42
1:J:514:ILE:HG22	1:J:515:LEU:O	2.19	0.42
1:J:903:GLU:HG3	1:J:904:CYS:H	1.84	0.42
1:K:148:LEU:HD23	1:K:264:LEU:HB2	2.00	0.42
1:K:285:LEU:HD23	1:K:285:LEU:HA	1.74	0.42
1:L:124:ASN:OD1	1:L:124:ASN:C	2.58	0.42
1:L:148:LEU:HD23	1:L:264:LEU:HB2	2.00	0.42
1:L:514:ILE:HG22	1:L:515:LEU:O	2.19	0.42
1:L:54:ALA:O	1:L:57:GLY:N	2.52	0.42
1:L:458:LEU:CA	1:L:587:ARG:HH21	2.31	0.42
1:M:187:ASN:CA	1:M:249:ASN:HD21	2.27	0.42
1:M:148:LEU:HD23	1:M:264:LEU:HB2	2.00	0.42
1:M:514:ILE:HG22	1:M:515:LEU:O	2.19	0.42
1:N:324:LEU:HD12	1:N:324:LEU:HA	1.61	0.42
1:O:1139:ASP:O	1:O:1140:SER:OG	2.35	0.42
1:O:1198:ASP:OD1	1:O:1199:ASP:N	2.50	0.42
1:O:305:LEU:HA	1:O:305:LEU:HD23	1.84	0.42
1:O:453:PHE:CE2	1:O:460:PRO:HB3	2.49	0.42
1:O:646:ARG:HG3	1:O:648:GLU:HG3	2.00	0.42
1:O:724:GLY:HA3	1:O:730:ILE:HD12	2.01	0.42
1:O:950:TRP:CZ3	1:O:952:HIS:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:324:LEU:HD12	1:P:324:LEU:HA	1.61	0.42
1:P:514:ILE:HG22	1:P:515:LEU:O	2.19	0.42
1:P:535:TYR:O	1:P:538:LEU:HB3	2.19	0.42
1:P:54:ALA:O	1:P:57:GLY:N	2.52	0.42
1:P:950:TRP:CZ3	1:P:952:HIS:HA	2.54	0.42
1:A:342:LYS:HG3	1:A:343:HIS:N	2.34	0.42
1:A:633:THR:HG22	1:A:643:TYR:HA	1.97	0.42
1:B:1195:VAL:HG11	1:B:1241:PHE:CZ	2.54	0.42
1:B:187:ASN:CA	1:B:249:ASN:HD21	2.27	0.42
1:A:122:LYS:CG	1:B:276:SER:OG	2.67	0.42
1:B:443:ILE:HG21	1:B:477:ASN:ND2	2.24	0.42
1:B:514:ILE:HG22	1:B:515:LEU:O	2.19	0.42
1:B:517:THR:CG2	1:B:518:LEU:N	2.81	0.42
1:B:901:HIS:O	1:B:902:ILE:HB	2.18	0.42
1:C:124:ASN:C	1:C:124:ASN:OD1	2.58	0.42
1:C:458:LEU:CA	1:C:587:ARG:HH21	2.30	0.42
1:E:903:GLU:HG3	1:E:904:CYS:H	1.84	0.42
1:G:1195:VAL:HG11	1:G:1241:PHE:CZ	2.54	0.42
1:G:535:TYR:O	1:G:538:LEU:HB3	2.19	0.42
1:G:541:ALA:O	1:G:543:LEU:N	2.52	0.42
1:G:950:TRP:CZ3	1:G:952:HIS:HA	2.54	0.42
1:H:950:TRP:CZ3	1:H:952:HIS:HA	2.54	0.42
1:I:461:PRO:O	1:I:461:PRO:HG2	2.18	0.42
1:I:646:ARG:HG3	1:I:648:GLU:HG3	2.00	0.42
1:J:517:THR:HA	1:J:520:GLN:OE1	2.19	0.42
1:K:428:GLU:OE1	1:K:429:LEU:HA	2.20	0.42
1:L:132:LEU:HA	1:L:132:LEU:HD12	1.79	0.42
1:L:342:LYS:HG3	1:L:343:HIS:N	2.34	0.42
1:L:950:TRP:CZ3	1:L:952:HIS:HA	2.54	0.42
1:M:1195:VAL:HG11	1:M:1241:PHE:CZ	2.54	0.42
1:M:541:ALA:O	1:M:543:LEU:N	2.52	0.42
1:M:950:TRP:CZ3	1:M:952:HIS:HA	2.54	0.42
1:N:1195:VAL:HG11	1:N:1241:PHE:CZ	2.54	0.42
1:N:130:PRO:HA	1:N:290:MET:HE3	2.01	0.42
1:N:234:SER:OG	1:N:235:LYS:N	2.51	0.42
1:N:517:THR:HA	1:N:520:GLN:OE1	2.18	0.42
1:N:950:TRP:CZ3	1:N:952:HIS:HA	2.54	0.42
1:O:508:TRP:CD1	1:O:604:ASN:HB2	2.54	0.42
1:O:901:HIS:O	1:O:902:ILE:HB	2.18	0.42
1:P:1195:VAL:HG11	1:P:1241:PHE:CZ	2.54	0.42
1:P:541:ALA:O	1:P:543:LEU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:130:PRO:HA	1:A:290:MET:HE3	2.01	0.42
1:A:516:ASN:O	1:A:517:THR:CB	2.67	0.42
1:B:152:VAL:O	1:B:155:SER:OG	2.29	0.42
1:B:157:LYS:HZ3	2:B:1501:DTP:PG	2.40	0.42
1:B:234:SER:OG	1:B:235:LYS:N	2.51	0.42
1:B:73:VAL:O	1:B:76:PHE:N	2.52	0.42
1:C:243:VAL:C	1:C:244:LEU:HD12	2.39	0.42
1:C:251:APK:H8	1:C:251:APK:H2'	1.74	0.42
1:C:147:VAL:HG12	1:C:281:THR:OG1	2.19	0.42
1:C:428:GLU:OE1	1:C:429:LEU:HA	2.20	0.42
1:C:499:GLN:CD	1:C:516:ASN:HB3	2.39	0.42
1:C:517:THR:HA	1:C:520:GLN:OE1	2.18	0.42
1:C:545:PHE:O	1:C:549:ILE:HG22	2.20	0.42
1:D:124:ASN:HA	2:D:1501:DTP:C2	2.49	0.42
1:D:251:APK:H2'	1:D:251:APK:H8	1.74	0.42
1:D:428:GLU:OE1	1:D:429:LEU:HA	2.20	0.42
1:D:799:ASN:O	1:D:800:THR:CG2	2.67	0.42
1:D:950:TRP:CZ3	1:D:952:HIS:HA	2.54	0.42
1:E:342:LYS:HG3	1:E:343:HIS:N	2.34	0.42
1:E:543:LEU:HA	1:E:546:LEU:CD1	2.48	0.42
1:F:453:PHE:CE2	1:F:460:PRO:HB3	2.49	0.42
1:F:463:LEU:CD2	1:F:467:PHE:HD2	2.31	0.42
1:G:120:PHE:CE1	1:G:159:TRP:CE3	3.05	0.42
1:G:243:VAL:C	1:G:244:LEU:HD12	2.39	0.42
1:G:324:LEU:HA	1:G:324:LEU:HD12	1.61	0.42
1:G:553:LEU:HA	1:G:553:LEU:HD23	1.91	0.42
1:G:79:GLU:OE2	1:G:83:ILE:HD11	2.20	0.42
1:H:1000:ILE:HD11	1:H:1014:ALA:HB3	2.00	0.42
1:H:1139:ASP:O	1:H:1140:SER:OG	2.35	0.42
1:H:1158:TYR:HB3	1:H:1162:ILE:HG23	2.01	0.42
1:H:342:LYS:HG3	1:H:343:HIS:N	2.34	0.42
1:H:516:ASN:O	1:H:517:THR:CB	2.67	0.42
1:H:901:HIS:O	1:H:902:ILE:HB	2.18	0.42
1:I:514:ILE:HG22	1:I:515:LEU:O	2.19	0.42
1:J:1075:SER:OG	1:J:1094:ASP:O	2.29	0.42
1:J:141:LEU:HD12	1:J:141:LEU:O	2.19	0.42
1:J:342:LYS:HG3	1:J:343:HIS:N	2.34	0.42
1:J:543:LEU:HA	1:J:546:LEU:CD1	2.49	0.42
1:K:124:ASN:HA	2:K:1501:DTP:C2	2.49	0.42
1:K:514:ILE:HG22	1:K:515:LEU:O	2.19	0.42
1:K:799:ASN:O	1:K:800:THR:CG2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:950:TRP:CZ3	1:K:952:HIS:HA	2.54	0.42
1:L:507:ALA:O	1:L:608:ASN:CB	2.61	0.42
1:L:499:GLN:CD	1:L:516:ASN:HB3	2.38	0.42
1:L:545:PHE:O	1:L:549:ILE:HG22	2.19	0.42
1:L:646:ARG:HG3	1:L:648:GLU:HG3	2.00	0.42
1:M:234:SER:OG	1:M:235:LYS:N	2.51	0.42
1:M:73:VAL:O	1:M:76:PHE:N	2.52	0.42
1:M:901:HIS:O	1:M:902:ILE:HB	2.18	0.42
1:N:251:APK:O	1:N:253:TRP:HB3	2.20	0.42
1:N:342:LYS:HG3	1:N:343:HIS:N	2.34	0.42
1:O:1000:ILE:HD11	1:O:1014:ALA:HB3	2.00	0.42
1:O:285:LEU:HD23	1:O:285:LEU:HA	1.74	0.42
1:O:317:LEU:O	1:O:318:THR:CB	2.61	0.42
1:O:342:LYS:HG3	1:O:343:HIS:N	2.34	0.42
1:O:516:ASN:O	1:O:517:THR:CB	2.67	0.42
1:P:120:PHE:CE1	1:P:159:TRP:CE3	3.05	0.42
1:P:243:VAL:C	1:P:244:LEU:HD12	2.39	0.42
1:P:79:GLU:OE2	1:P:83:ILE:HD11	2.20	0.42
1:A:234:SER:OG	1:A:235:LYS:N	2.51	0.42
1:A:517:THR:HA	1:A:520:GLN:OE1	2.18	0.42
1:A:646:ARG:HG3	1:A:648:GLU:HG3	2.00	0.42
1:A:724:GLY:HA3	1:A:730:ILE:HD12	2.01	0.42
1:A:950:TRP:CZ3	1:A:952:HIS:HA	2.54	0.42
1:B:346:CYS:SG	1:B:350:THR:OG1	2.76	0.42
1:B:39:ILE:HG23	1:B:40:LEU:HG	2.02	0.42
1:B:440:HIS:O	1:B:444:VAL:HG23	2.18	0.42
1:B:724:GLY:HA3	1:B:730:ILE:HD12	2.01	0.42
1:C:507:ALA:O	1:C:608:ASN:CB	2.61	0.42
1:C:514:ILE:HG22	1:C:515:LEU:O	2.19	0.42
1:C:542:ILE:HA	1:C:545:PHE:CD2	2.54	0.42
1:C:646:ARG:HG3	1:C:648:GLU:HG3	2.00	0.42
1:D:410:LEU:CD2	1:D:413:LYS:HA	2.49	0.42
1:D:514:ILE:HG22	1:D:515:LEU:O	2.19	0.42
1:D:862:ILE:HG23	1:D:863:THR:H	1.84	0.42
1:F:514:ILE:HG22	1:F:515:LEU:O	2.19	0.42
1:F:862:ILE:HG23	1:F:863:THR:H	1.84	0.42
1:F:115:ASN:HB3	1:G:257:ASN:HD21	1.84	0.42
1:G:336:ALA:C	1:G:337:THR:HG1	2.20	0.42
1:G:39:ILE:HG23	1:G:40:LEU:HG	2.02	0.42
1:G:470:HIS:O	1:G:473:HIS:N	2.53	0.42
1:H:545:PHE:O	1:H:549:ILE:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:508:TRP:CD1	1:H:604:ASN:HB2	2.54	0.42
1:I:517:THR:HA	1:I:520:GLN:OE1	2.18	0.42
1:I:543:LEU:HA	1:I:546:LEU:CD1	2.48	0.42
1:J:413:LYS:CD	1:J:422:ILE:O	2.61	0.42
1:K:545:PHE:O	1:K:549:ILE:HG22	2.19	0.42
1:L:541:ALA:O	1:L:543:LEU:N	2.52	0.42
1:M:39:ILE:HG23	1:M:40:LEU:HG	2.02	0.42
1:M:458:LEU:CG	1:M:587:ARG:NH2	2.74	0.42
1:M:470:HIS:O	1:M:473:HIS:N	2.53	0.42
1:M:553:LEU:HD23	1:M:553:LEU:HA	1.90	0.42
1:M:724:GLY:HA3	1:M:730:ILE:HD12	2.01	0.42
1:N:376:PRO:HA	1:N:377:PRO:HD3	1.89	0.42
1:N:516:ASN:O	1:N:517:THR:CB	2.67	0.42
1:N:724:GLY:HA3	1:N:730:ILE:HD12	2.01	0.42
1:O:1158:TYR:HB3	1:O:1162:ILE:HG23	2.01	0.42
1:O:243:VAL:C	1:O:244:LEU:HD12	2.39	0.42
1:O:91:PRO:O	1:O:94:THR:OG1	2.21	0.42
1:P:39:ILE:HG23	1:P:40:LEU:HG	2.02	0.42
1:P:902:ILE:HD13	1:P:930:HIS:CE1	2.43	0.42
1:A:251:APK:O	1:A:253:TRP:HB3	2.20	0.42
1:A:39:ILE:HG23	1:A:40:LEU:HG	2.02	0.42
1:A:481:PRO:O	1:A:485:THR:HG23	2.19	0.42
1:A:508:TRP:CD1	1:A:604:ASN:HB2	2.54	0.42
1:A:79:GLU:OE2	1:A:83:ILE:HD11	2.19	0.42
1:B:458:LEU:CG	1:B:587:ARG:NH2	2.74	0.42
1:B:470:HIS:O	1:B:473:HIS:N	2.53	0.42
1:B:488:ARG:HG2	1:B:491:PHE:CG	2.55	0.42
1:B:542:ILE:HA	1:B:545:PHE:CD2	2.54	0.42
1:B:553:LEU:HA	1:B:553:LEU:HD23	1.91	0.42
1:C:312:LEU:CD2	1:C:313:PRO:CD	2.86	0.42
1:C:346:CYS:HG	1:C:350:THR:HG1	1.64	0.42
1:C:553:LEU:HD23	1:C:553:LEU:HA	1.90	0.42
1:D:488:ARG:HG2	1:D:491:PHE:CG	2.55	0.42
1:D:545:PHE:O	1:D:549:ILE:HG22	2.20	0.42
1:D:508:TRP:CD1	1:D:604:ASN:HB2	2.54	0.42
1:E:141:LEU:HD12	1:E:141:LEU:O	2.19	0.42
1:E:147:VAL:HG12	1:E:281:THR:OG1	2.19	0.42
1:E:499:GLN:CD	1:E:516:ASN:HB3	2.38	0.42
1:F:410:LEU:CD2	1:F:413:LYS:HA	2.49	0.42
1:F:461:PRO:HG2	1:F:461:PRO:O	2.18	0.42
1:F:516:ASN:O	1:F:517:THR:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:903:GLU:HG3	1:F:904:CYS:H	1.84	0.42
1:G:517:THR:HA	1:G:520:GLN:OE1	2.18	0.42
1:G:901:HIS:O	1:G:902:ILE:HB	2.18	0.42
1:H:989:SER:HB2	1:H:1027:ASN:HA	2.01	0.42
1:H:243:VAL:C	1:H:244:LEU:HD12	2.39	0.42
1:H:39:ILE:HG23	1:H:40:LEU:HG	2.02	0.42
1:H:463:LEU:CD2	1:H:467:PHE:HD2	2.31	0.42
1:H:508:TRP:C	1:H:606:GLY:N	2.70	0.42
1:I:463:LEU:CD2	1:I:467:PHE:HD2	2.31	0.42
1:I:535:TYR:O	1:I:538:LEU:HB3	2.19	0.42
1:J:113:LEU:HD12	1:J:113:LEU:HA	1.83	0.42
1:J:499:GLN:CD	1:J:516:ASN:HB3	2.39	0.42
1:K:488:ARG:HG2	1:K:491:PHE:CG	2.55	0.42
1:K:517:THR:CG2	1:K:518:LEU:N	2.81	0.42
1:K:542:ILE:HA	1:K:545:PHE:CD2	2.54	0.42
1:K:79:GLU:OE2	1:K:83:ILE:HD11	2.19	0.42
1:K:901:HIS:O	1:K:902:ILE:HB	2.18	0.42
1:L:147:VAL:HG12	1:L:281:THR:OG1	2.19	0.42
1:L:542:ILE:HA	1:L:545:PHE:CD2	2.54	0.42
1:L:553:LEU:HA	1:L:553:LEU:HD23	1.90	0.42
1:L:635:VAL:HB	1:L:641:ASP:CG	2.40	0.42
1:M:440:HIS:O	1:M:444:VAL:HG23	2.18	0.42
1:M:542:ILE:HA	1:M:545:PHE:CD2	2.54	0.42
1:M:646:ARG:HG3	1:M:648:GLU:HG3	2.00	0.42
1:N:147:VAL:HG12	1:N:281:THR:OG1	2.19	0.42
1:N:542:ILE:HA	1:N:545:PHE:CD2	2.54	0.42
1:N:508:TRP:CD1	1:N:604:ASN:HB2	2.54	0.42
1:O:545:PHE:O	1:O:549:ILE:HG22	2.20	0.42
1:O:508:TRP:C	1:O:606:GLY:N	2.70	0.42
1:O:989:SER:HB2	1:O:1027:ASN:HA	2.01	0.42
1:P:470:HIS:O	1:P:473:HIS:N	2.53	0.42
1:P:517:THR:HA	1:P:520:GLN:OE1	2.18	0.42
1:P:901:HIS:O	1:P:902:ILE:HB	2.18	0.42
1:A:124:ASN:OD1	1:A:124:ASN:C	2.58	0.42
1:A:542:ILE:HA	1:A:545:PHE:CD2	2.54	0.42
1:A:545:PHE:O	1:A:549:ILE:HG22	2.20	0.42
1:B:13:LYS:HE3	1:B:13:LYS:HB2	1.87	0.42
1:B:545:PHE:O	1:B:549:ILE:HG22	2.20	0.42
1:C:1127:ASP:OD1	1:C:1128:ILE:N	2.50	0.42
1:C:39:ILE:HG23	1:C:40:LEU:HG	2.02	0.42
1:C:552:ASN:HB3	1:C:1226:TYR:CE1	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:950:TRP:CZ3	1:C:952:HIS:HA	2.54	0.42
1:D:120:PHE:CE1	1:D:159:TRP:CE3	3.05	0.42
1:D:517:THR:CG2	1:D:518:LEU:N	2.81	0.42
1:D:542:ILE:HA	1:D:545:PHE:CD2	2.54	0.42
1:D:901:HIS:O	1:D:902:ILE:HB	2.18	0.42
1:E:39:ILE:HG23	1:E:40:LEU:HG	2.02	0.42
1:E:413:LYS:CD	1:E:422:ILE:O	2.61	0.42
1:E:481:PRO:O	1:E:485:THR:HG23	2.19	0.42
1:E:950:TRP:CZ3	1:E:952:HIS:HA	2.54	0.42
1:F:124:ASN:HA	2:F:1501:DTP:C2	2.49	0.42
1:F:535:TYR:O	1:F:538:LEU:HB3	2.19	0.42
1:F:646:ARG:HG3	1:F:648:GLU:HG3	2.00	0.42
1:G:124:ASN:C	1:G:124:ASN:OD1	2.58	0.42
1:G:915:TYR:CE2	1:G:916:LYS:HE3	2.54	0.42
1:H:317:LEU:O	1:H:318:THR:CB	2.61	0.42
1:H:488:ARG:HG2	1:H:491:PHE:CG	2.55	0.42
1:H:79:GLU:OE2	1:H:83:ILE:HD11	2.19	0.42
1:I:122:LYS:HG3	1:P:276:SER:HB2	2.00	0.42
1:I:453:PHE:CE2	1:I:460:PRO:HB3	2.49	0.42
1:I:516:ASN:O	1:I:517:THR:CB	2.67	0.42
1:I:508:TRP:C	1:I:606:GLY:N	2.70	0.42
1:J:147:VAL:HG12	1:J:281:THR:OG1	2.19	0.42
1:J:428:GLU:OE1	1:J:429:LEU:HA	2.20	0.42
1:J:481:PRO:O	1:J:485:THR:HG23	2.19	0.42
1:J:950:TRP:CZ3	1:J:952:HIS:HA	2.54	0.42
1:K:120:PHE:CE1	1:K:159:TRP:CE3	3.05	0.42
1:K:410:LEU:CD2	1:K:413:LYS:HA	2.49	0.42
1:K:862:ILE:HG23	1:K:863:THR:H	1.84	0.42
1:L:428:GLU:OE1	1:L:429:LEU:HA	2.20	0.42
1:M:13:LYS:HB2	1:M:13:LYS:HE3	1.87	0.42
1:M:488:ARG:HG2	1:M:491:PHE:CG	2.55	0.42
1:M:545:PHE:O	1:M:549:ILE:HG22	2.20	0.42
1:N:11:GLN:O	1:N:14:ASP:N	2.46	0.42
1:N:124:ASN:OD1	1:N:124:ASN:C	2.58	0.42
1:N:264:LEU:HD23	1:N:264:LEU:HA	1.74	0.42
1:N:39:ILE:HG23	1:N:40:LEU:HG	2.02	0.42
1:N:79:GLU:OE2	1:N:83:ILE:HD11	2.19	0.42
1:O:39:ILE:HG23	1:O:40:LEU:HG	2.02	0.42
1:O:463:LEU:CD2	1:O:467:PHE:HD2	2.31	0.42
1:P:410:LEU:CD2	1:P:413:LYS:HA	2.49	0.42
1:P:553:LEU:HD23	1:P:553:LEU:HA	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:11:GLN:O	1:A:14:ASP:N	2.46	0.42
1:A:147:VAL:HG12	1:A:281:THR:OG1	2.19	0.42
1:B:635:VAL:HB	1:B:641:ASP:CG	2.40	0.42
1:C:1195:VAL:HG11	1:C:1241:PHE:CZ	2.54	0.42
1:C:200:LEU:HD12	1:C:200:LEU:HA	1.74	0.42
1:D:1158:TYR:HB3	1:D:1162:ILE:HG23	2.01	0.42
1:D:453:PHE:CE1	1:D:460:PRO:HB3	2.51	0.42
1:D:517:THR:HA	1:D:520:GLN:OE1	2.18	0.42
1:D:523:PHE:HD1	1:D:527:TYR:CE2	2.28	0.42
1:D:79:GLU:OE2	1:D:83:ILE:HD11	2.19	0.42
1:E:507:ALA:O	1:E:608:ASN:CB	2.61	0.42
1:F:39:ILE:HG23	1:F:40:LEU:HG	2.02	0.42
1:F:769:ARG:NH1	1:F:771:PHE:HB2	2.35	0.42
1:F:950:TRP:CZ3	1:F:952:HIS:HA	2.54	0.42
1:G:410:LEU:CD2	1:G:413:LYS:HA	2.49	0.42
1:G:724:GLY:HA3	1:G:730:ILE:HD12	2.01	0.42
1:G:902:ILE:HD13	1:G:930:HIS:CE1	2.43	0.42
1:H:251:APK:O	1:H:253:TRP:HB3	2.20	0.42
1:H:496:PHE:HE2	1:H:555:CYS:HG	1.66	0.42
1:I:496:PHE:HE2	1:I:555:CYS:HG	1.66	0.42
1:I:862:ILE:HG23	1:I:863:THR:H	1.83	0.42
1:J:39:ILE:HG23	1:J:40:LEU:HG	2.02	0.42
1:K:1158:TYR:HB3	1:K:1162:ILE:HG23	2.01	0.42
1:K:453:PHE:CE1	1:K:460:PRO:HB3	2.51	0.42
1:K:508:TRP:CD1	1:K:604:ASN:HB2	2.54	0.42
1:K:517:THR:HA	1:K:520:GLN:OE1	2.19	0.42
1:K:523:PHE:HD1	1:K:527:TYR:CE2	2.28	0.42
1:K:635:VAL:HB	1:K:641:ASP:CG	2.40	0.42
1:L:1195:VAL:HG11	1:L:1241:PHE:CZ	2.54	0.42
1:L:13:LYS:HB2	1:L:13:LYS:HE3	1.87	0.42
1:L:39:ILE:HG23	1:L:40:LEU:HG	2.02	0.42
1:L:508:TRP:CD1	1:L:604:ASN:HB2	2.54	0.42
1:M:1075:SER:OG	1:M:1094:ASP:O	2.29	0.42
1:M:130:PRO:HA	1:M:290:MET:HE3	2.00	0.42
1:M:635:VAL:HB	1:M:641:ASP:CG	2.40	0.42
1:N:481:PRO:O	1:N:485:THR:HG23	2.19	0.42
1:N:545:PHE:O	1:N:549:ILE:HG22	2.20	0.42
1:O:488:ARG:HG2	1:O:491:PHE:CG	2.55	0.42
1:O:79:GLU:OE2	1:O:83:ILE:HD11	2.20	0.42
1:P:124:ASN:OD1	1:P:124:ASN:C	2.58	0.42
1:P:915:TYR:CE2	1:P:916:LYS:HE3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:VAL:C	1:A:244:LEU:HD12	2.39	0.42
1:B:124:ASN:OD1	1:B:124:ASN:C	2.58	0.42
1:B:79:GLU:OE2	1:B:83:ILE:HD11	2.19	0.42
1:B:989:SER:HB2	1:B:1027:ASN:HA	2.01	0.42
1:C:313:PRO:CG	1:C:338:TRP:CE2	2.94	0.42
1:C:541:ALA:O	1:C:543:LEU:N	2.52	0.42
1:D:200:LEU:HA	1:D:200:LEU:HD12	1.74	0.42
1:C:115:ASN:O	1:D:257:ASN:ND2	2.52	0.42
1:D:39:ILE:HG23	1:D:40:LEU:HG	2.02	0.42
1:D:516:ASN:O	1:D:517:THR:CB	2.67	0.42
1:D:635:VAL:HB	1:D:641:ASP:CG	2.40	0.42
1:E:119:VAL:HG23	1:E:120:PHE:N	2.28	0.42
1:E:428:GLU:OE1	1:E:429:LEU:HA	2.20	0.42
1:F:342:LYS:HG3	1:F:343:HIS:N	2.34	0.42
1:F:496:PHE:HE2	1:F:555:CYS:HG	1.66	0.42
1:A:276:SER:OG	1:H:122:LYS:HG3	2.20	0.42
1:H:141:LEU:O	1:H:141:LEU:HD12	2.19	0.42
1:H:283:ILE:HA	1:H:283:ILE:HD13	1.92	0.42
1:I:251:APK:H8	1:I:251:APK:H2'	1.73	0.42
1:I:39:ILE:HG23	1:I:40:LEU:HG	2.02	0.42
1:I:410:LEU:CD2	1:I:413:LYS:HA	2.49	0.42
1:I:517:THR:CG2	1:I:518:LEU:N	2.82	0.42
1:J:545:PHE:O	1:J:549:ILE:HG22	2.19	0.42
1:J:79:GLU:OE2	1:J:83:ILE:HD11	2.19	0.42
1:K:200:LEU:HD12	1:K:200:LEU:HA	1.74	0.42
1:K:251:APK:O	1:K:253:TRP:HB3	2.20	0.42
1:K:39:ILE:HG23	1:K:40:LEU:HG	2.02	0.42
1:L:251:APK:H2'	1:L:251:APK:H8	1.74	0.42
1:L:463:LEU:CD2	1:L:467:PHE:HD2	2.31	0.42
1:L:549:ILE:HD12	1:L:550:GLU:H	1.85	0.42
1:M:124:ASN:OD1	1:M:124:ASN:C	2.58	0.42
1:M:392:ASP:OD1	1:M:393:VAL:N	2.47	0.42
1:M:523:PHE:HD1	1:M:527:TYR:CE2	2.28	0.42
1:M:79:GLU:OE2	1:M:83:ILE:HD11	2.19	0.42
1:L:1177:TYR:HE2	1:M:916:LYS:CE	2.33	0.42
1:N:646:ARG:HG3	1:N:648:GLU:HG3	2.00	0.42
1:N:73:VAL:O	1:N:76:PHE:N	2.52	0.42
1:O:244:LEU:HD21	1:O:256:PHE:CD2	2.50	0.42
1:O:470:HIS:O	1:O:473:HIS:N	2.53	0.42
1:O:902:ILE:HD13	1:O:930:HIS:CE1	2.43	0.42
1:P:481:PRO:O	1:P:485:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:799:ASN:O	1:P:800:THR:CG2	2.67	0.42
1:A:283:ILE:HA	1:A:283:ILE:HD13	1.92	0.42
1:A:73:VAL:O	1:A:76:PHE:N	2.52	0.42
1:B:1075:SER:OG	1:B:1094:ASP:O	2.29	0.42
1:B:130:PRO:HA	1:B:290:MET:HE3	2.01	0.42
1:B:462:TYR:OH	1:B:494:PHE:CE1	2.72	0.42
1:B:560:ASP:HA	1:B:592:ASN:ND2	2.29	0.42
1:B:646:ARG:HG3	1:B:648:GLU:HG3	2.00	0.42
1:B:833:LYS:HB3	1:B:834:TYR:H	1.63	0.42
1:C:113:LEU:HD12	1:C:113:LEU:HA	1.83	0.42
1:C:453:PHE:CE1	1:C:460:PRO:HB3	2.51	0.42
1:C:463:LEU:CD2	1:C:467:PHE:HD2	2.31	0.42
1:C:549:ILE:HD12	1:C:550:GLU:H	1.85	0.42
1:C:635:VAL:HB	1:C:641:ASP:CG	2.40	0.42
1:D:989:SER:HB2	1:D:1027:ASN:HA	2.01	0.42
1:D:251:APK:O	1:D:253:TRP:HB3	2.20	0.42
1:D:59:LEU:HD21	1:D:63:TRP:CZ2	2.55	0.42
1:D:903:GLU:HG3	1:D:904:CYS:H	1.84	0.42
1:E:1158:TYR:HB3	1:E:1162:ILE:HG23	2.01	0.42
1:E:251:APK:H2'	1:E:251:APK:H8	1.74	0.42
1:E:545:PHE:O	1:E:549:ILE:HG22	2.20	0.42
1:E:989:SER:HB2	1:E:1027:ASN:HA	2.01	0.42
1:F:285:LEU:HD23	1:F:285:LEU:HA	1.74	0.42
1:F:508:TRP:C	1:F:606:GLY:N	2.70	0.42
1:F:875:LEU:CG	1:F:911:PHE:CE2	2.86	0.42
1:G:342:LYS:HG3	1:G:343:HIS:N	2.34	0.42
1:G:481:PRO:O	1:G:485:THR:HG23	2.19	0.42
1:G:799:ASN:O	1:G:800:THR:CG2	2.67	0.42
1:H:470:HIS:O	1:H:473:HIS:N	2.53	0.42
1:H:552:ASN:HB3	1:H:1226:TYR:CE1	2.48	0.42
1:H:91:PRO:O	1:H:94:THR:OG1	2.21	0.42
1:I:124:ASN:HA	2:I:1501:DTP:C2	2.49	0.42
1:I:342:LYS:HG3	1:I:343:HIS:N	2.34	0.42
1:I:488:ARG:HG2	1:I:491:PHE:CG	2.55	0.42
1:I:545:PHE:CA	1:I:548:LYS:HB2	2.45	0.42
1:I:635:VAL:HB	1:I:641:ASP:CG	2.40	0.42
1:I:769:ARG:NH1	1:I:771:PHE:HB2	2.35	0.42
1:I:903:GLU:HG3	1:I:904:CYS:H	1.84	0.42
1:J:119:VAL:HG23	1:J:120:PHE:N	2.28	0.42
1:J:516:ASN:O	1:J:517:THR:CB	2.67	0.42
1:J:545:PHE:CA	1:J:548:LYS:HB2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:635:VAL:HB	1:J:641:ASP:CG	2.40	0.42
1:J:989:SER:HB2	1:J:1027:ASN:HA	2.01	0.42
1:K:516:ASN:O	1:K:517:THR:CB	2.67	0.42
1:K:59:LEU:HD21	1:K:63:TRP:CZ2	2.55	0.42
1:L:79:GLU:OE2	1:L:83:ILE:HD11	2.19	0.42
1:M:989:SER:HB2	1:M:1027:ASN:HA	2.01	0.42
1:M:276:SER:OG	1:N:122:LYS:HG3	2.19	0.42
1:M:462:TYR:OH	1:M:494:PHE:CE1	2.72	0.42
1:M:560:ASP:HA	1:M:592:ASN:ND2	2.29	0.42
1:M:862:ILE:HG23	1:M:863:THR:H	1.83	0.42
1:N:389:ILE:CD1	1:N:446:HIS:HE2	2.14	0.42
1:N:463:LEU:CD2	1:N:467:PHE:HD2	2.31	0.42
1:O:141:LEU:O	1:O:141:LEU:HD12	2.19	0.42
1:O:251:APK:O	1:O:253:TRP:HB3	2.20	0.42
1:O:59:LEU:HD21	1:O:63:TRP:CZ2	2.55	0.42
1:P:724:GLY:HA3	1:P:730:ILE:HD12	2.01	0.42
1:A:406:HIS:ND1	1:A:414:GLN:HG3	2.35	0.42
1:A:428:GLU:OE1	1:A:429:LEU:HA	2.20	0.42
1:B:523:PHE:HD1	1:B:527:TYR:CE2	2.28	0.42
1:C:557:LYS:HD3	1:C:1223:GLN:NE2	2.35	0.42
1:C:13:LYS:HB2	1:C:13:LYS:HE3	1.87	0.42
1:C:406:HIS:ND1	1:C:414:GLN:HG3	2.35	0.42
1:E:113:LEU:HA	1:E:113:LEU:HD12	1.84	0.42
1:E:516:ASN:O	1:E:517:THR:CB	2.67	0.42
1:E:557:LYS:HD3	1:E:1223:GLN:NE2	2.35	0.42
1:E:79:GLU:OE2	1:E:83:ILE:HD11	2.19	0.42
1:F:331:ILE:HD12	1:F:338:TRP:H	1.85	0.42
1:F:426:TYR:O	1:F:429:LEU:N	2.53	0.42
1:F:470:HIS:O	1:F:473:HIS:N	2.53	0.42
1:F:488:ARG:HG2	1:F:491:PHE:CG	2.55	0.42
1:F:517:THR:CG2	1:F:518:LEU:N	2.81	0.42
1:F:989:SER:HB2	1:F:1027:ASN:HA	2.01	0.42
1:H:557:LYS:HD3	1:H:1223:GLN:NE2	2.35	0.42
1:I:989:SER:HB2	1:I:1027:ASN:HA	2.01	0.42
1:I:59:LEU:HD21	1:I:63:TRP:CZ2	2.55	0.42
1:J:1158:TYR:HB3	1:J:1162:ILE:HG23	2.01	0.42
1:K:1139:ASP:O	1:K:1140:SER:OG	2.35	0.42
1:K:903:GLU:HG3	1:K:904:CYS:H	1.84	0.42
1:K:989:SER:HB2	1:K:1027:ASN:HA	2.01	0.42
1:L:557:LYS:HD3	1:L:1223:GLN:NE2	2.35	0.42
1:L:426:TYR:O	1:L:429:LEU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:453:PHE:CE1	1:L:460:PRO:HB3	2.51	0.42
1:L:770:CYS:SG	1:L:781:VAL:HG13	2.60	0.42
1:N:317:LEU:O	1:N:318:THR:CB	2.61	0.42
1:N:406:HIS:ND1	1:N:414:GLN:HG3	2.35	0.42
1:N:59:LEU:HD21	1:N:63:TRP:CZ2	2.55	0.42
1:N:905:VAL:HG13	1:N:906:ASP:H	1.85	0.42
1:O:336:ALA:C	1:O:337:THR:HG1	2.19	0.42
1:O:557:LYS:HD3	1:O:1223:GLN:NE2	2.35	0.42
1:P:1192:SER:OG	1:P:1208:GLU:OE2	2.28	0.42
1:P:342:LYS:HG3	1:P:343:HIS:N	2.34	0.42
1:P:453:PHE:CE1	1:P:460:PRO:HB3	2.51	0.42
1:A:463:LEU:CD2	1:A:467:PHE:HD2	2.31	0.41
1:A:59:LEU:HD21	1:A:63:TRP:CZ2	2.55	0.41
1:A:635:VAL:HB	1:A:641:ASP:CG	2.40	0.41
1:A:905:VAL:HG13	1:A:906:ASP:H	1.85	0.41
1:A:989:SER:HB2	1:A:1027:ASN:HA	2.01	0.41
1:B:141:LEU:HD12	1:B:141:LEU:O	2.19	0.41
1:B:243:VAL:C	1:B:244:LEU:HD12	2.39	0.41
1:B:331:ILE:HD12	1:B:338:TRP:H	1.85	0.41
1:B:426:TYR:O	1:B:429:LEU:N	2.53	0.41
1:B:516:ASN:O	1:B:517:THR:CB	2.67	0.41
1:B:862:ILE:HG23	1:B:863:THR:H	1.83	0.41
1:C:312:LEU:C	1:C:312:LEU:HD23	2.40	0.41
1:C:331:ILE:HD12	1:C:338:TRP:H	1.85	0.41
1:C:79:GLU:OE2	1:C:83:ILE:HD11	2.20	0.41
1:D:406:HIS:ND1	1:D:414:GLN:HG3	2.35	0.41
1:D:770:CYS:SG	1:D:781:VAL:HG13	2.60	0.41
1:E:331:ILE:HD12	1:E:338:TRP:H	1.85	0.41
1:E:545:PHE:CA	1:E:548:LYS:HB2	2.45	0.41
1:E:549:ILE:HD12	1:E:550:GLU:H	1.85	0.41
1:E:635:VAL:HB	1:E:641:ASP:CG	2.40	0.41
1:E:799:ASN:O	1:E:800:THR:CG2	2.67	0.41
1:F:130:PRO:HA	1:F:290:MET:HE3	2.02	0.41
1:F:468:TYR:HE1	1:F:497:LEU:HB2	1.85	0.41
1:F:59:LEU:HD21	1:F:63:TRP:CZ2	2.55	0.41
1:F:635:VAL:HB	1:F:641:ASP:CG	2.40	0.41
1:G:462:TYR:OH	1:G:494:PHE:CE1	2.72	0.41
1:G:516:ASN:O	1:G:517:THR:CB	2.67	0.41
1:H:13:LYS:HB2	1:H:13:LYS:HE3	1.87	0.41
1:H:59:LEU:HD21	1:H:63:TRP:CZ2	2.55	0.41
1:I:244:LEU:HD21	1:I:256:PHE:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:346:CYS:SG	1:I:350:THR:OG1	2.76	0.41
1:I:389:ILE:CD1	1:I:446:HIS:HE2	2.14	0.41
1:I:426:TYR:O	1:I:429:LEU:N	2.53	0.41
1:I:549:ILE:HD12	1:I:550:GLU:H	1.85	0.41
1:I:950:TRP:CZ3	1:I:952:HIS:HA	2.54	0.41
1:J:331:ILE:HD12	1:J:338:TRP:H	1.85	0.41
1:J:507:ALA:O	1:J:608:ASN:CB	2.61	0.41
1:J:549:ILE:HD12	1:J:550:GLU:H	1.85	0.41
1:J:557:LYS:HD3	1:J:1223:GLN:NE2	2.35	0.41
1:J:799:ASN:O	1:J:800:THR:CG2	2.67	0.41
1:K:406:HIS:ND1	1:K:414:GLN:HG3	2.35	0.41
1:K:257:ASN:ND2	1:L:115:ASN:O	2.51	0.41
1:L:313:PRO:CG	1:L:338:TRP:CE2	2.94	0.41
1:L:768:ILE:HG23	1:L:769:ARG:N	2.36	0.41
1:L:989:SER:HB2	1:L:1027:ASN:HA	2.01	0.41
1:M:141:LEU:HD12	1:M:141:LEU:O	2.19	0.41
1:M:243:VAL:C	1:M:244:LEU:HD12	2.39	0.41
1:M:382:PRO:HA	1:M:419:THR:CG2	2.36	0.41
1:M:406:HIS:ND1	1:M:414:GLN:HG3	2.35	0.41
1:M:516:ASN:O	1:M:517:THR:CB	2.67	0.41
1:N:1026:PHE:HD1	1:N:1062:LYS:HG2	1.86	0.41
1:N:1051:GLN:HG3	1:N:1053:PHE:CD2	2.55	0.41
1:N:243:VAL:C	1:N:244:LEU:HD12	2.39	0.41
1:N:428:GLU:OE1	1:N:429:LEU:HA	2.20	0.41
1:N:989:SER:HB2	1:N:1027:ASN:HA	2.01	0.41
1:P:462:TYR:OH	1:P:494:PHE:CE1	2.72	0.41
1:A:1026:PHE:HD1	1:A:1062:LYS:HG2	1.86	0.41
1:A:1051:GLN:HG3	1:A:1053:PHE:CD2	2.55	0.41
1:A:1198:ASP:OD1	1:A:1199:ASP:N	2.50	0.41
1:A:264:LEU:HA	1:A:264:LEU:HD23	1.74	0.41
1:A:317:LEU:O	1:A:318:THR:CB	2.61	0.41
1:A:389:ILE:CD1	1:A:446:HIS:HE2	2.14	0.41
1:A:410:LEU:CD2	1:A:413:LYS:HA	2.49	0.41
1:A:541:ALA:O	1:A:543:LEU:N	2.52	0.41
1:B:147:VAL:HG12	1:B:281:THR:OG1	2.19	0.41
1:B:428:GLU:OE1	1:B:429:LEU:HA	2.20	0.41
1:B:768:ILE:HG23	1:B:769:ARG:N	2.35	0.41
1:C:989:SER:HB2	1:C:1027:ASN:HA	2.01	0.41
1:C:1051:GLN:HG3	1:C:1053:PHE:CD2	2.55	0.41
1:C:132:LEU:HD12	1:C:132:LEU:HA	1.79	0.41
1:C:426:TYR:O	1:C:429:LEU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:508:TRP:CD1	1:C:604:ASN:HB2	2.54	0.41
1:C:724:GLY:HA3	1:C:730:ILE:HD12	2.01	0.41
1:C:768:ILE:HG23	1:C:769:ARG:N	2.36	0.41
1:C:770:CYS:SG	1:C:781:VAL:HG13	2.60	0.41
1:D:470:HIS:O	1:D:473:HIS:N	2.53	0.41
1:D:560:ASP:O	1:D:564:ILE:HG12	2.21	0.41
1:D:14:ASP:CG	1:E:142:ARG:HH22	2.22	0.41
1:E:312:LEU:C	1:E:312:LEU:HD23	2.40	0.41
1:E:324:LEU:HA	1:E:324:LEU:HD12	1.61	0.41
1:E:406:HIS:ND1	1:E:414:GLN:HG3	2.35	0.41
1:E:59:LEU:HD21	1:E:63:TRP:CZ2	2.55	0.41
1:F:1139:ASP:O	1:F:1140:SER:OG	2.35	0.41
1:F:244:LEU:HD21	1:F:256:PHE:CD2	2.50	0.41
1:F:389:ILE:CD1	1:F:446:HIS:HE2	2.14	0.41
1:G:1158:TYR:HB3	1:G:1162:ILE:HG23	2.01	0.41
1:F:335:LEU:HD21	1:G:399:MET:HG3	2.01	0.41
1:H:244:LEU:HD21	1:H:256:PHE:CD2	2.51	0.41
1:H:406:HIS:ND1	1:H:414:GLN:HG3	2.35	0.41
1:H:770:CYS:SG	1:H:781:VAL:HG13	2.60	0.41
1:I:276:SER:OG	1:J:122:LYS:HG3	2.20	0.41
1:I:468:TYR:HE1	1:I:497:LEU:HB2	1.85	0.41
1:I:470:HIS:O	1:I:473:HIS:N	2.53	0.41
1:J:406:HIS:ND1	1:J:414:GLN:HG3	2.35	0.41
1:K:152:VAL:O	1:K:155:SER:OG	2.29	0.41
1:L:406:HIS:ND1	1:L:414:GLN:HG3	2.35	0.41
1:L:519:GLN:HG2	1:L:523:PHE:HE2	1.84	0.41
1:L:552:ASN:HB3	1:L:1226:TYR:CE1	2.48	0.41
1:M:147:VAL:HG12	1:M:281:THR:OG1	2.19	0.41
1:M:331:ILE:HD12	1:M:338:TRP:H	1.85	0.41
1:M:426:TYR:O	1:M:429:LEU:N	2.53	0.41
1:M:428:GLU:OE1	1:M:429:LEU:HA	2.20	0.41
1:M:557:LYS:HD3	1:M:1223:GLN:NE2	2.35	0.41
1:M:64:THR:O	1:M:67:SER:OG	2.27	0.41
1:M:833:LYS:HB3	1:M:834:TYR:H	1.63	0.41
1:N:1198:ASP:OD1	1:N:1199:ASP:N	2.50	0.41
1:N:635:VAL:HB	1:N:641:ASP:CG	2.40	0.41
1:O:406:HIS:ND1	1:O:414:GLN:HG3	2.35	0.41
1:P:1158:TYR:HB3	1:P:1162:ILE:HG23	2.01	0.41
1:P:516:ASN:O	1:P:517:THR:CB	2.67	0.41
1:P:545:PHE:O	1:P:549:ILE:HG22	2.19	0.41
1:A:331:ILE:HD12	1:A:338:TRP:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:ILE:HD12	1:A:550:GLU:H	1.85	0.41
1:A:584:PHE:HB3	1:A:585:ASP:H	1.61	0.41
1:A:769:ARG:NH1	1:A:771:PHE:HB2	2.35	0.41
1:B:557:LYS:HD3	1:B:1223:GLN:NE2	2.35	0.41
1:B:312:LEU:CD2	1:B:313:PRO:CD	2.86	0.41
1:B:406:HIS:ND1	1:B:414:GLN:HG3	2.35	0.41
1:C:285:LEU:HA	1:C:285:LEU:HD23	1.74	0.41
1:D:1075:SER:OG	1:D:1094:ASP:O	2.29	0.41
1:D:113:LEU:HD12	1:D:113:LEU:HA	1.83	0.41
1:D:13:LYS:HB2	1:D:13:LYS:HE3	1.87	0.41
1:D:426:TYR:O	1:D:429:LEU:N	2.53	0.41
1:D:768:ILE:HG23	1:D:769:ARG:N	2.36	0.41
1:E:64:THR:O	1:E:67:SER:OG	2.27	0.41
1:F:557:LYS:HD3	1:F:1223:GLN:NE2	2.35	0.41
1:F:271:VAL:O	1:F:274:PHE:N	2.54	0.41
1:F:549:ILE:HD12	1:F:550:GLU:H	1.85	0.41
1:G:545:PHE:O	1:G:549:ILE:HG22	2.19	0.41
1:G:770:CYS:SG	1:G:781:VAL:HG13	2.60	0.41
1:H:113:LEU:HA	1:H:113:LEU:HD12	1.84	0.41
1:H:271:VAL:O	1:H:274:PHE:N	2.54	0.41
1:H:331:ILE:HD12	1:H:338:TRP:H	1.85	0.41
1:H:336:ALA:C	1:H:337:THR:HG1	2.19	0.41
1:I:1139:ASP:O	1:I:1140:SER:OG	2.35	0.41
1:I:119:VAL:HG23	1:I:120:PHE:N	2.29	0.41
1:I:770:CYS:SG	1:I:781:VAL:HG13	2.60	0.41
1:I:79:GLU:OE2	1:I:83:ILE:HD11	2.19	0.41
1:J:312:LEU:HD23	1:J:312:LEU:C	2.41	0.41
1:J:346:CYS:SG	1:J:350:THR:OG1	2.76	0.41
1:J:59:LEU:HD21	1:J:63:TRP:CZ2	2.55	0.41
1:K:1051:GLN:HG3	1:K:1053:PHE:CD2	2.55	0.41
1:K:1075:SER:OG	1:K:1094:ASP:O	2.29	0.41
1:K:147:VAL:HG12	1:K:281:THR:OG1	2.19	0.41
1:K:325:SER:O	1:K:329:GLU:N	2.42	0.41
1:K:413:LYS:CD	1:K:422:ILE:O	2.60	0.41
1:K:426:TYR:O	1:K:429:LEU:N	2.53	0.41
1:K:470:HIS:O	1:K:473:HIS:N	2.53	0.41
1:K:560:ASP:O	1:K:564:ILE:HG12	2.21	0.41
1:K:768:ILE:HG23	1:K:769:ARG:N	2.36	0.41
1:K:770:CYS:SG	1:K:781:VAL:HG13	2.60	0.41
1:L:1051:GLN:HG3	1:L:1053:PHE:CD2	2.56	0.41
1:L:219:LEU:HD11	1:M:201:TYR:HE2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:312:LEU:HD23	1:L:312:LEU:C	2.41	0.41
1:L:336:ALA:C	1:L:338:TRP:N	2.74	0.41
1:L:724:GLY:HA3	1:L:730:ILE:HD12	2.01	0.41
1:M:1026:PHE:HD1	1:M:1062:LYS:HG2	1.86	0.41
1:M:251:APK:O	1:M:253:TRP:HB3	2.20	0.41
1:M:768:ILE:HG23	1:M:769:ARG:N	2.36	0.41
1:M:770:CYS:SG	1:M:781:VAL:HG13	2.60	0.41
1:N:410:LEU:CD2	1:N:413:LYS:HA	2.49	0.41
1:N:426:TYR:O	1:N:429:LEU:N	2.53	0.41
1:O:283:ILE:HD13	1:O:283:ILE:HA	1.92	0.41
1:O:331:ILE:HD12	1:O:338:TRP:H	1.85	0.41
1:O:552:ASN:HB3	1:O:1226:TYR:CE1	2.48	0.41
1:O:770:CYS:SG	1:O:781:VAL:HG13	2.60	0.41
1:P:346:CYS:SG	1:P:350:THR:OG1	2.76	0.41
1:P:770:CYS:SG	1:P:781:VAL:HG13	2.60	0.41
1:A:488:ARG:HG2	1:A:491:PHE:CG	2.55	0.41
1:B:1026:PHE:HD1	1:B:1062:LYS:HG2	1.86	0.41
1:B:102:MET:O	1:B:105:MET:N	2.46	0.41
1:B:201:TYR:CZ	1:C:223:SER:OG	2.64	0.41
1:B:251:APK:O	1:B:253:TRP:HB3	2.20	0.41
1:B:770:CYS:SG	1:B:781:VAL:HG13	2.60	0.41
1:B:915:TYR:CE2	1:B:916:LYS:HE3	2.53	0.41
1:C:413:LYS:CD	1:C:422:ILE:O	2.61	0.41
1:D:1026:PHE:HD1	1:D:1062:LYS:HG2	1.86	0.41
1:D:1051:GLN:HG3	1:D:1053:PHE:CD2	2.55	0.41
1:D:147:VAL:HG12	1:D:281:THR:OG1	2.19	0.41
1:D:325:SER:O	1:D:329:GLU:N	2.42	0.41
1:D:413:LYS:CD	1:D:422:ILE:O	2.61	0.41
1:F:545:PHE:CA	1:F:548:LYS:HB2	2.45	0.41
1:F:833:LYS:HB3	1:F:834:TYR:H	1.63	0.41
1:G:1051:GLN:HG3	1:G:1053:PHE:CD2	2.55	0.41
1:G:1192:SER:OG	1:G:1208:GLU:OE2	2.28	0.41
1:G:346:CYS:SG	1:G:350:THR:OG1	2.76	0.41
1:H:1026:PHE:HD1	1:H:1062:LYS:HG2	1.86	0.41
1:H:336:ALA:C	1:H:338:TRP:N	2.74	0.41
1:H:635:VAL:HB	1:H:641:ASP:CG	2.40	0.41
1:H:902:ILE:HD13	1:H:930:HIS:CE1	2.43	0.41
1:I:331:ILE:HD12	1:I:338:TRP:H	1.85	0.41
1:I:428:GLU:OE1	1:I:429:LEU:HA	2.20	0.41
1:I:545:PHE:O	1:I:549:ILE:HG22	2.20	0.41
1:J:251:APK:O	1:J:253:TRP:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1177:TYR:HE2	1:J:916:LYS:CE	2.32	0.41
1:K:1026:PHE:HD1	1:K:1062:LYS:HG2	1.86	0.41
1:K:13:LYS:HE3	1:K:13:LYS:HB2	1.87	0.41
1:K:724:GLY:HA3	1:K:730:ILE:HD12	2.01	0.41
1:K:902:ILE:HD13	1:K:930:HIS:CE1	2.43	0.41
1:L:1026:PHE:HD1	1:L:1062:LYS:HG2	1.85	0.41
1:L:251:APK:O	1:L:253:TRP:HB3	2.20	0.41
1:L:331:ILE:HD12	1:L:338:TRP:H	1.86	0.41
1:L:518:LEU:CD1	1:L:518:LEU:N	2.81	0.41
1:M:102:MET:O	1:M:105:MET:N	2.46	0.41
1:M:113:LEU:HA	1:M:113:LEU:HD12	1.83	0.41
1:M:902:ILE:HD13	1:M:930:HIS:CE1	2.43	0.41
1:N:119:VAL:HG23	1:N:120:PHE:N	2.28	0.41
1:N:283:ILE:HA	1:N:283:ILE:HD13	1.92	0.41
1:N:331:ILE:HD12	1:N:338:TRP:H	1.85	0.41
1:N:541:ALA:O	1:N:543:LEU:N	2.52	0.41
1:N:549:ILE:HD12	1:N:550:GLU:H	1.85	0.41
1:O:1026:PHE:HD1	1:O:1062:LYS:HG2	1.86	0.41
1:O:336:ALA:C	1:O:338:TRP:N	2.74	0.41
1:O:549:ILE:HD12	1:O:550:GLU:H	1.85	0.41
1:O:915:TYR:CE2	1:O:916:LYS:HE3	2.53	0.41
1:P:142:ARG:HG2	1:P:142:ARG:H	1.73	0.41
1:P:251:APK:O	1:P:253:TRP:HB3	2.20	0.41
1:P:635:VAL:HB	1:P:641:ASP:CG	2.40	0.41
1:P:59:LEU:HD21	1:P:63:TRP:CZ2	2.55	0.41
1:P:905:VAL:HG13	1:P:906:ASP:H	1.85	0.41
1:A:426:TYR:O	1:A:429:LEU:N	2.53	0.41
1:A:768:ILE:HG23	1:A:769:ARG:N	2.36	0.41
1:B:285:LEU:HA	1:B:285:LEU:HD23	1.74	0.41
1:B:317:LEU:C	1:B:318:THR:HG1	1.96	0.41
1:B:382:PRO:HA	1:B:419:THR:CG2	2.36	0.41
1:B:451:LYS:CD	1:B:486:LEU:HD21	2.33	0.41
1:B:508:TRP:CD1	1:B:604:ASN:HB2	2.54	0.41
1:C:251:APK:O	1:C:253:TRP:HB3	2.20	0.41
1:C:336:ALA:C	1:C:338:TRP:N	2.74	0.41
1:C:519:GLN:HG2	1:C:523:PHE:HE2	1.84	0.41
1:D:468:TYR:HE1	1:D:497:LEU:HB2	1.85	0.41
1:D:724:GLY:HA3	1:D:730:ILE:HD12	2.01	0.41
1:D:829:LEU:HD21	1:D:874:LEU:HD22	2.03	0.41
1:E:1009:ILE:HG13	1:E:1011:PRO:HD3	2.03	0.41
1:E:768:ILE:HG23	1:E:769:ARG:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1158:TYR:HB3	1:F:1162:ILE:HG23	2.01	0.41
1:F:428:GLU:OE1	1:F:429:LEU:HA	2.20	0.41
1:F:545:PHE:O	1:F:549:ILE:HG22	2.19	0.41
1:F:603:ILE:HD11	1:F:635:VAL:HG11	2.03	0.41
1:F:770:CYS:SG	1:F:781:VAL:HG13	2.61	0.41
1:G:251:APK:O	1:G:253:TRP:HB3	2.20	0.41
1:G:507:ALA:O	1:G:608:ASN:CB	2.61	0.41
1:G:59:LEU:HD21	1:G:63:TRP:CZ2	2.55	0.41
1:G:635:VAL:HB	1:G:641:ASP:CG	2.40	0.41
1:H:915:TYR:CE2	1:H:916:LYS:HE3	2.53	0.41
1:I:557:LYS:HD3	1:I:1223:GLN:NE2	2.35	0.41
1:J:1009:ILE:HG13	1:J:1011:PRO:HD3	2.03	0.41
1:J:157:LYS:H	1:J:157:LYS:HG2	1.68	0.41
1:J:251:APK:H8	1:J:251:APK:H2'	1.74	0.41
1:K:468:TYR:HE1	1:K:497:LEU:HB2	1.85	0.41
1:K:519:GLN:HG2	1:K:523:PHE:HE2	1.84	0.41
1:K:829:LEU:HD21	1:K:874:LEU:HD22	2.03	0.41
1:M:312:LEU:CD2	1:M:313:PRO:CD	2.86	0.41
1:M:508:TRP:CD1	1:M:604:ASN:HB2	2.54	0.41
1:M:519:GLN:HG2	1:M:523:PHE:HE2	1.84	0.41
1:M:915:TYR:CE2	1:M:916:LYS:HE3	2.53	0.41
1:N:768:ILE:HG23	1:N:769:ARG:N	2.36	0.41
1:N:769:ARG:NH1	1:N:771:PHE:HB2	2.35	0.41
1:O:271:VAL:O	1:O:274:PHE:N	2.54	0.41
1:O:413:LYS:CD	1:O:422:ILE:O	2.61	0.41
1:O:862:ILE:HG23	1:O:863:THR:H	1.83	0.41
1:P:1051:GLN:HG3	1:P:1053:PHE:CD2	2.55	0.41
1:P:336:ALA:C	1:P:337:THR:HG1	2.21	0.41
1:P:406:HIS:ND1	1:P:414:GLN:HG3	2.35	0.41
1:A:15:ILE:HA	1:A:15:ILE:HD12	1.92	0.41
1:A:557:LYS:HD3	1:A:1223:GLN:NE2	2.35	0.41
1:A:833:LYS:HB3	1:A:834:TYR:H	1.63	0.41
1:A:829:LEU:HD21	1:A:874:LEU:HD22	2.03	0.41
1:B:519:GLN:HG2	1:B:523:PHE:HE2	1.84	0.41
1:B:902:ILE:HD13	1:B:930:HIS:CE1	2.43	0.41
1:C:122:LYS:O	1:C:303:LYS:NZ	2.38	0.41
1:C:250:ALA:C	1:C:251:APK:O	2.59	0.41
1:C:560:ASP:O	1:C:564:ILE:HG12	2.21	0.41
1:C:829:LEU:HD21	1:C:874:LEU:HD22	2.03	0.41
1:C:905:VAL:HG13	1:C:906:ASP:H	1.85	0.41
1:D:1195:VAL:HG11	1:D:1241:PHE:CZ	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:152:VAL:O	1:D:155:SER:OG	2.29	0.41
1:D:324:LEU:HD12	1:D:324:LEU:HA	1.61	0.41
1:D:336:ALA:C	1:D:338:TRP:N	2.74	0.41
1:E:346:CYS:SG	1:E:350:THR:OG1	2.76	0.41
1:F:346:CYS:SG	1:F:350:THR:OG1	2.76	0.41
1:F:724:GLY:HA3	1:F:730:ILE:HD12	2.01	0.41
1:F:79:GLU:OE2	1:F:83:ILE:HD11	2.20	0.41
1:G:406:HIS:ND1	1:G:414:GLN:HG3	2.35	0.41
1:G:905:VAL:HG13	1:G:906:ASP:H	1.86	0.41
1:H:124:ASN:OD1	1:H:124:ASN:C	2.57	0.41
1:G:198:LYS:NZ	1:H:222:HIS:CG	2.88	0.41
1:H:468:TYR:HE1	1:H:497:LEU:HB2	1.85	0.41
1:H:549:ILE:HD12	1:H:550:GLU:H	1.85	0.41
1:H:833:LYS:HB3	1:H:834:TYR:H	1.63	0.41
1:H:862:ILE:HG23	1:H:863:THR:H	1.83	0.41
1:I:1009:ILE:HG13	1:I:1011:PRO:HD3	2.03	0.41
1:I:1026:PHE:HD1	1:I:1062:LYS:HG2	1.86	0.41
1:I:271:VAL:O	1:I:274:PHE:N	2.54	0.41
1:I:406:HIS:ND1	1:I:414:GLN:HG3	2.35	0.41
1:I:724:GLY:HA3	1:I:730:ILE:HD12	2.01	0.41
1:J:426:TYR:O	1:J:429:LEU:N	2.53	0.41
1:J:468:TYR:HE1	1:J:497:LEU:HB2	1.85	0.41
1:J:768:ILE:HG23	1:J:769:ARG:N	2.35	0.41
1:K:147:VAL:HG23	1:K:263:LEU:HG	2.03	0.41
1:K:336:ALA:C	1:K:338:TRP:N	2.74	0.41
1:L:250:ALA:C	1:L:251:APK:O	2.59	0.41
1:L:516:ASN:O	1:L:517:THR:CB	2.67	0.41
1:L:560:ASP:O	1:L:564:ILE:HG12	2.21	0.41
1:M:147:VAL:HG23	1:M:263:LEU:HG	2.03	0.41
1:N:829:LEU:HD21	1:N:874:LEU:HD22	2.03	0.41
1:O:468:TYR:HE1	1:O:497:LEU:HB2	1.85	0.41
1:O:635:VAL:HB	1:O:641:ASP:CG	2.40	0.41
1:A:470:HIS:O	1:A:473:HIS:N	2.53	0.41
1:B:147:VAL:HG23	1:B:263:LEU:HG	2.03	0.41
1:B:271:VAL:O	1:B:274:PHE:N	2.54	0.41
1:C:516:ASN:O	1:C:517:THR:CB	2.67	0.41
1:D:1009:ILE:HG13	1:D:1011:PRO:HD3	2.03	0.41
1:D:147:VAL:HG23	1:D:263:LEU:HG	2.03	0.41
1:E:1198:ASP:OD1	1:E:1199:ASP:N	2.50	0.41
1:E:251:APK:O	1:E:253:TRP:HB3	2.20	0.41
1:E:153:LEU:CD2	1:E:267:ARG:HD3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:829:LEU:HD21	1:E:874:LEU:HD22	2.03	0.41
1:F:1026:PHE:HD1	1:F:1062:LYS:HG2	1.86	0.41
1:F:251:APK:O	1:F:253:TRP:HB3	2.20	0.41
1:F:768:ILE:HG23	1:F:769:ARG:N	2.35	0.41
1:G:488:ARG:HG2	1:G:491:PHE:CG	2.55	0.41
1:G:557:LYS:HD3	1:G:1223:GLN:NE2	2.35	0.41
1:I:1158:TYR:HB3	1:I:1162:ILE:HG23	2.01	0.41
1:I:603:ILE:HD11	1:I:635:VAL:HG11	2.03	0.41
1:J:153:LEU:CD2	1:J:267:ARG:HD3	2.51	0.41
1:J:453:PHE:CE1	1:J:460:PRO:HB3	2.51	0.41
1:J:829:LEU:HD21	1:J:874:LEU:HD22	2.03	0.41
1:K:403:ASN:CG	1:L:333:ASP:OD2	2.58	0.41
1:L:488:ARG:HG2	1:L:491:PHE:CG	2.55	0.41
1:L:829:LEU:HD21	1:L:874:LEU:HD22	2.03	0.41
1:L:905:VAL:HG13	1:L:906:ASP:H	1.85	0.41
1:M:271:VAL:O	1:M:274:PHE:N	2.54	0.41
1:N:470:HIS:O	1:N:473:HIS:N	2.53	0.41
1:N:488:ARG:HG2	1:N:491:PHE:CG	2.55	0.41
1:N:770:CYS:SG	1:N:781:VAL:HG13	2.60	0.41
1:O:426:TYR:O	1:O:429:LEU:N	2.53	0.41
1:O:428:GLU:OE1	1:O:429:LEU:HA	2.20	0.41
1:P:557:LYS:HD3	1:P:1223:GLN:NE2	2.35	0.41
1:I:14:ASP:CG	1:P:142:ARG:HH22	2.24	0.41
1:P:507:ALA:O	1:P:608:ASN:CB	2.61	0.41
1:A:119:VAL:HG23	1:A:120:PHE:N	2.29	0.41
1:A:147:VAL:HG23	1:A:263:LEU:HG	2.03	0.41
1:A:770:CYS:SG	1:A:781:VAL:HG13	2.60	0.41
1:B:113:LEU:HD12	1:B:113:LEU:HA	1.83	0.41
1:B:250:ALA:C	1:B:251:APK:O	2.59	0.41
1:C:1026:PHE:HD1	1:C:1062:LYS:HG2	1.86	0.41
1:C:488:ARG:HG2	1:C:491:PHE:CG	2.55	0.41
1:C:587:ARG:CG	1:C:588:VAL:H	2.33	0.41
1:D:519:GLN:HG2	1:D:523:PHE:HE2	1.85	0.41
1:E:426:TYR:O	1:E:429:LEU:N	2.53	0.41
1:E:468:TYR:HE1	1:E:497:LEU:HB2	1.85	0.41
1:F:119:VAL:HG23	1:F:120:PHE:N	2.28	0.41
1:G:271:VAL:O	1:G:274:PHE:N	2.54	0.41
1:G:426:TYR:O	1:G:429:LEU:N	2.53	0.41
1:H:413:LYS:CD	1:H:422:ILE:O	2.61	0.41
1:H:426:TYR:O	1:H:429:LEU:N	2.53	0.41
1:H:905:VAL:HG13	1:H:906:ASP:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:153:LEU:CD2	1:I:267:ARG:HD3	2.51	0.41
1:I:285:LEU:HA	1:I:285:LEU:HD23	1.74	0.41
1:I:616:LEU:HG	1:I:618:ASN:H	1.86	0.41
1:J:324:LEU:HD12	1:J:324:LEU:HA	1.61	0.41
1:J:488:ARG:HG2	1:J:491:PHE:CG	2.55	0.41
1:K:1009:ILE:HG13	1:K:1011:PRO:HD3	2.03	0.41
1:K:1195:VAL:HG11	1:K:1241:PHE:CZ	2.54	0.41
1:K:153:LEU:CD2	1:K:267:ARG:HD3	2.51	0.41
1:K:428:GLU:OE1	1:K:429:LEU:N	2.54	0.41
1:J:1177:TYR:CE2	1:K:916:LYS:HE2	2.49	0.41
1:L:1198:ASP:OD1	1:L:1199:ASP:N	2.50	0.41
1:M:451:LYS:CD	1:M:486:LEU:HD21	2.33	0.41
1:N:557:LYS:HD3	1:N:1223:GLN:NE2	2.35	0.41
1:N:147:VAL:HG23	1:N:263:LEU:HG	2.03	0.41
1:O:113:LEU:HD12	1:O:113:LEU:HA	1.83	0.41
1:O:124:ASN:OD1	1:O:124:ASN:C	2.58	0.41
1:O:768:ILE:HG23	1:O:769:ARG:N	2.36	0.41
1:O:829:LEU:HD21	1:O:874:LEU:HD22	2.03	0.41
1:P:336:ALA:C	1:P:338:TRP:N	2.74	0.41
1:P:426:TYR:O	1:P:429:LEU:N	2.53	0.41
1:P:428:GLU:OE1	1:P:429:LEU:HA	2.20	0.41
1:P:488:ARG:HG2	1:P:491:PHE:CG	2.55	0.41
1:A:462:TYR:CZ	1:A:494:PHE:CZ	3.03	0.41
1:B:1051:GLN:HG3	1:B:1053:PHE:CD2	2.55	0.41
1:B:1198:ASP:OD1	1:B:1199:ASP:N	2.50	0.41
1:B:207:TRP:CZ2	1:B:224:ILE:HD11	2.56	0.41
1:B:361:GLU:O	1:B:365:TYR:N	2.53	0.41
1:B:560:ASP:O	1:B:564:ILE:HG12	2.21	0.41
1:C:207:TRP:CZ2	1:C:224:ILE:HD11	2.56	0.41
1:C:462:TYR:OH	1:C:494:PHE:CE1	2.72	0.41
1:C:59:LEU:HD21	1:C:63:TRP:CZ2	2.55	0.41
1:D:1198:ASP:OD1	1:D:1199:ASP:N	2.50	0.41
1:D:153:LEU:CD2	1:D:267:ARG:HD3	2.51	0.41
1:D:428:GLU:OE1	1:D:429:LEU:N	2.54	0.41
1:D:616:LEU:HG	1:D:618:ASN:H	1.86	0.41
1:D:902:ILE:HD13	1:D:930:HIS:CE1	2.43	0.41
1:E:1051:GLN:HG3	1:E:1053:PHE:CD2	2.56	0.41
1:E:157:LYS:H	1:E:157:LYS:HG2	1.68	0.41
1:E:453:PHE:CE1	1:E:460:PRO:HB3	2.51	0.41
1:E:488:ARG:HG2	1:E:491:PHE:CG	2.55	0.41
1:E:915:TYR:CE2	1:E:916:LYS:HE3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1009:ILE:HG13	1:F:1011:PRO:HD3	2.03	0.41
1:F:153:LEU:CD2	1:F:267:ARG:HD3	2.51	0.41
1:F:324:LEU:HD12	1:F:324:LEU:HA	1.61	0.41
1:G:336:ALA:C	1:G:338:TRP:N	2.74	0.41
1:G:428:GLU:OE1	1:G:429:LEU:N	2.54	0.41
1:G:468:TYR:HE1	1:G:497:LEU:HB2	1.85	0.41
1:H:1195:VAL:HG11	1:H:1241:PHE:CZ	2.54	0.41
1:H:428:GLU:OE1	1:H:429:LEU:HA	2.20	0.41
1:H:768:ILE:HG23	1:H:769:ARG:N	2.36	0.41
1:H:829:LEU:HD21	1:H:874:LEU:HD22	2.03	0.41
1:I:251:APK:O	1:I:253:TRP:HB3	2.20	0.41
1:J:1051:GLN:HG3	1:J:1053:PHE:CD2	2.55	0.41
1:J:147:VAL:HG23	1:J:263:LEU:HG	2.03	0.41
1:K:113:LEU:HA	1:K:113:LEU:HD12	1.83	0.41
1:K:324:LEU:HD12	1:K:324:LEU:HA	1.61	0.41
1:K:346:CYS:SG	1:K:350:THR:OG1	2.76	0.41
1:K:549:ILE:HD12	1:K:550:GLU:H	1.85	0.41
1:K:616:LEU:HG	1:K:618:ASN:H	1.86	0.41
1:L:428:GLU:C	1:L:430:LYS:N	2.74	0.41
1:L:587:ARG:CG	1:L:588:VAL:H	2.33	0.41
1:M:207:TRP:CZ2	1:M:224:ILE:HD11	2.56	0.41
1:M:250:ALA:C	1:M:251:APK:O	2.59	0.41
1:M:285:LEU:HA	1:M:285:LEU:HD23	1.74	0.41
1:M:361:GLU:O	1:M:365:TYR:N	2.53	0.41
1:M:905:VAL:HG13	1:M:906:ASP:H	1.85	0.41
1:N:519:GLN:HG2	1:N:523:PHE:HE2	1.84	0.41
1:N:584:PHE:HB3	1:N:585:ASP:H	1.61	0.41
1:N:603:ILE:HD11	1:N:635:VAL:HG11	2.03	0.41
1:O:905:VAL:HG13	1:O:906:ASP:H	1.85	0.41
1:P:271:VAL:O	1:P:274:PHE:N	2.54	0.41
1:P:301:LEU:CD2	1:P:313:PRO:CG	2.87	0.41
1:A:519:GLN:HG2	1:A:523:PHE:HE2	1.84	0.41
1:B:312:LEU:HD23	1:B:312:LEU:C	2.40	0.41
1:B:59:LEU:HD21	1:B:63:TRP:CZ2	2.55	0.41
1:B:829:LEU:HD21	1:B:874:LEU:HD22	2.03	0.41
1:B:905:VAL:HG13	1:B:906:ASP:H	1.85	0.41
1:C:147:VAL:HG23	1:C:263:LEU:HG	2.03	0.41
1:D:603:ILE:HD11	1:D:635:VAL:HG11	2.03	0.41
1:E:147:VAL:HG23	1:E:263:LEU:HG	2.03	0.41
1:E:447:TYR:OH	1:E:486:LEU:CD2	2.67	0.41
1:E:724:GLY:HA3	1:E:730:ILE:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:406:HIS:ND1	1:F:414:GLN:HG3	2.35	0.41
1:F:428:GLU:OE1	1:F:429:LEU:N	2.54	0.41
1:F:616:LEU:HG	1:F:618:ASN:H	1.86	0.41
1:G:187:ASN:CA	1:G:249:ASN:HD21	2.27	0.41
1:G:301:LEU:CD2	1:G:313:PRO:CG	2.87	0.41
1:G:428:GLU:OE1	1:G:429:LEU:HA	2.20	0.41
1:G:768:ILE:HG23	1:G:769:ARG:N	2.36	0.41
1:H:1051:GLN:HG3	1:H:1053:PHE:CD2	2.55	0.41
1:H:428:GLU:OE1	1:H:429:LEU:N	2.54	0.41
1:H:511:SER:HA	1:H:514:ILE:H	1.86	0.41
1:I:1051:GLN:HG3	1:I:1053:PHE:CD2	2.55	0.41
1:I:768:ILE:HG23	1:I:769:ARG:N	2.36	0.41
1:J:428:GLU:C	1:J:430:LYS:N	2.75	0.41
1:J:447:TYR:OH	1:J:486:LEU:CD2	2.67	0.41
1:J:770:CYS:SG	1:J:781:VAL:HG13	2.60	0.41
1:J:915:TYR:CE2	1:J:916:LYS:HE3	2.53	0.41
1:K:1198:ASP:OD1	1:K:1199:ASP:N	2.50	0.41
1:J:222:HIS:CG	1:K:198:LYS:HZ1	2.39	0.41
1:K:89:MET:O	1:K:92:ILE:HG22	2.21	0.41
1:L:147:VAL:HG23	1:L:263:LEU:HG	2.03	0.41
1:L:207:TRP:CZ2	1:L:224:ILE:HD11	2.56	0.41
1:L:312:LEU:CD2	1:L:313:PRO:CD	2.86	0.41
1:L:428:GLU:OE1	1:L:429:LEU:N	2.54	0.41
1:M:1051:GLN:HG3	1:M:1053:PHE:CD2	2.56	0.41
1:M:1127:ASP:OD1	1:M:1128:ILE:N	2.50	0.41
1:M:1198:ASP:OD1	1:M:1199:ASP:N	2.50	0.41
1:M:560:ASP:O	1:M:564:ILE:HG12	2.21	0.41
1:M:829:LEU:HD21	1:M:874:LEU:HD22	2.03	0.41
1:N:560:ASP:O	1:N:564:ILE:HG12	2.21	0.41
1:N:833:LYS:HB3	1:N:834:TYR:H	1.63	0.41
1:O:428:GLU:OE1	1:O:429:LEU:N	2.54	0.41
1:P:1026:PHE:HD1	1:P:1062:LYS:HG2	1.86	0.41
1:P:122:LYS:O	1:P:303:LYS:NZ	2.38	0.41
1:P:428:GLU:OE1	1:P:429:LEU:N	2.54	0.41
1:P:468:TYR:HE1	1:P:497:LEU:HB2	1.85	0.41
1:P:768:ILE:HG23	1:P:769:ARG:N	2.36	0.41
1:A:271:VAL:O	1:A:274:PHE:N	2.54	0.41
1:A:560:ASP:O	1:A:564:ILE:HG12	2.21	0.41
1:B:428:GLU:C	1:B:430:LYS:N	2.74	0.41
1:B:781:VAL:HG11	1:B:791:TRP:HZ3	1.87	0.41
1:C:361:GLU:O	1:C:365:TYR:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:428:GLU:OE1	1:C:429:LEU:N	2.54	0.41
1:C:428:GLU:C	1:C:430:LYS:N	2.75	0.41
1:D:331:ILE:HD12	1:D:338:TRP:H	1.85	0.41
1:D:346:CYS:SG	1:D:350:THR:OG1	2.76	0.41
1:D:549:ILE:HD12	1:D:550:GLU:H	1.85	0.41
1:D:769:ARG:NH1	1:D:771:PHE:HB2	2.35	0.41
1:D:717:PHE:HB2	1:D:771:PHE:HD1	1.86	0.41
1:E:271:VAL:O	1:E:274:PHE:N	2.54	0.41
1:E:336:ALA:C	1:E:338:TRP:N	2.74	0.41
1:E:428:GLU:C	1:E:430:LYS:N	2.74	0.41
1:G:1026:PHE:HD1	1:G:1062:LYS:HG2	1.86	0.41
1:G:428:GLU:C	1:G:430:LYS:N	2.74	0.41
1:G:545:PHE:CA	1:G:548:LYS:HB2	2.45	0.41
1:I:428:GLU:OE1	1:I:429:LEU:N	2.54	0.41
1:I:447:TYR:OH	1:I:486:LEU:CD2	2.67	0.41
1:I:967:PRO:HD2	1:I:976:ASP:HB2	2.03	0.41
1:J:1198:ASP:OD1	1:J:1199:ASP:N	2.50	0.41
1:J:271:VAL:O	1:J:274:PHE:N	2.54	0.41
1:J:336:ALA:C	1:J:338:TRP:N	2.74	0.41
1:J:389:ILE:CD1	1:J:446:HIS:HE2	2.14	0.41
1:J:724:GLY:HA3	1:J:730:ILE:HD12	2.01	0.41
1:K:545:PHE:CA	1:K:548:LYS:HB2	2.45	0.41
1:K:603:ILE:HD11	1:K:635:VAL:HG11	2.03	0.41
1:M:312:LEU:HD23	1:M:312:LEU:C	2.41	0.41
1:M:336:ALA:C	1:M:338:TRP:N	2.74	0.41
1:M:59:LEU:HD21	1:M:63:TRP:CZ2	2.55	0.41
1:M:781:VAL:HG11	1:M:791:TRP:HZ3	1.86	0.41
1:N:1139:ASP:O	1:N:1140:SER:OG	2.35	0.41
1:N:361:GLU:O	1:N:365:TYR:N	2.53	0.41
1:P:545:PHE:CA	1:P:548:LYS:HB2	2.45	0.41
1:A:1139:ASP:O	1:A:1140:SER:OG	2.35	0.40
1:A:361:GLU:O	1:A:365:TYR:N	2.53	0.40
1:B:1127:ASP:OD1	1:B:1128:ILE:N	2.50	0.40
1:B:336:ALA:C	1:B:338:TRP:N	2.74	0.40
1:B:450:PRO:O	1:B:453:PHE:N	2.54	0.40
1:C:122:LYS:HG3	1:D:276:SER:OG	2.21	0.40
1:C:28:ASP:HB2	1:C:31:ASP:CG	2.42	0.40
1:D:450:PRO:O	1:D:453:PHE:N	2.55	0.40
1:D:89:MET:O	1:D:92:ILE:HG22	2.22	0.40
1:E:770:CYS:SG	1:E:781:VAL:HG13	2.60	0.40
1:E:967:PRO:HD2	1:E:976:ASP:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:28:ASP:HB2	1:F:31:ASP:CG	2.42	0.40
1:F:336:ALA:C	1:F:338:TRP:N	2.74	0.40
1:F:42:LYS:HG3	1:F:46:ASP:OD2	2.22	0.40
1:F:560:ASP:O	1:F:564:ILE:HG12	2.21	0.40
1:F:829:LEU:HD21	1:F:874:LEU:HD22	2.03	0.40
1:G:560:ASP:O	1:G:564:ILE:HG12	2.21	0.40
1:G:916:LYS:CE	1:H:1177:TYR:HE2	2.34	0.40
1:I:146:ASN:HB2	1:I:280:THR:CG2	2.51	0.40
1:I:560:ASP:O	1:I:564:ILE:HG12	2.21	0.40
1:I:833:LYS:HB3	1:I:834:TYR:H	1.63	0.40
1:J:102:MET:O	1:J:105:MET:N	2.46	0.40
1:J:967:PRO:HD2	1:J:976:ASP:HB2	2.04	0.40
1:K:119:VAL:HG23	1:K:120:PHE:N	2.28	0.40
1:K:331:ILE:HD12	1:K:338:TRP:H	1.86	0.40
1:K:769:ARG:NH1	1:K:771:PHE:HB2	2.35	0.40
1:L:301:LEU:CD2	1:L:313:PRO:CG	2.87	0.40
1:L:28:ASP:HB2	1:L:31:ASP:CG	2.42	0.40
1:L:361:GLU:O	1:L:365:TYR:N	2.53	0.40
1:L:450:PRO:O	1:L:453:PHE:N	2.54	0.40
1:L:42:LYS:HG3	1:L:46:ASP:OD2	2.22	0.40
1:L:462:TYR:OH	1:L:494:PHE:CE1	2.73	0.40
1:L:545:PHE:CE1	1:L:565:ALA:HA	2.55	0.40
1:L:59:LEU:HD21	1:L:63:TRP:CZ2	2.55	0.40
1:M:428:GLU:C	1:M:430:LYS:N	2.74	0.40
1:N:271:VAL:O	1:N:274:PHE:N	2.54	0.40
1:N:462:TYR:CZ	1:N:494:PHE:CZ	3.03	0.40
1:N:717:PHE:HB2	1:N:771:PHE:HD1	1.86	0.40
1:O:1051:GLN:HG3	1:O:1053:PHE:CD2	2.56	0.40
1:O:352:ILE:O	1:O:356:SER:OG	2.29	0.40
1:O:511:SER:HA	1:O:514:ILE:H	1.87	0.40
1:P:829:LEU:HD21	1:P:874:LEU:HD22	2.03	0.40
1:A:207:TRP:CZ2	1:A:224:ILE:HD11	2.56	0.40
1:B:28:ASP:HB2	1:B:31:ASP:CG	2.42	0.40
1:B:468:TYR:HE1	1:B:497:LEU:HB2	1.85	0.40
1:C:1198:ASP:OD1	1:C:1199:ASP:N	2.50	0.40
1:C:450:PRO:O	1:C:453:PHE:N	2.54	0.40
1:C:42:LYS:HG3	1:C:46:ASP:OD2	2.22	0.40
1:D:122:LYS:HG3	1:E:276:SER:HB2	2.04	0.40
1:D:207:TRP:CZ2	1:D:224:ILE:HD11	2.56	0.40
1:D:271:VAL:O	1:D:274:PHE:N	2.54	0.40
1:D:28:ASP:HB2	1:D:31:ASP:CG	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:545:PHE:CA	1:D:548:LYS:HB2	2.45	0.40
1:E:102:MET:O	1:E:105:MET:N	2.46	0.40
1:E:389:ILE:CD1	1:E:446:HIS:HE2	2.14	0.40
1:F:1198:ASP:OD1	1:F:1199:ASP:N	2.50	0.40
1:F:207:TRP:CZ2	1:F:224:ILE:HD11	2.56	0.40
1:F:428:GLU:C	1:F:430:LYS:N	2.74	0.40
1:F:447:TYR:OH	1:F:486:LEU:CD2	2.67	0.40
1:F:89:MET:O	1:F:92:ILE:HG22	2.21	0.40
1:G:42:LYS:HG3	1:G:46:ASP:OD2	2.22	0.40
1:G:829:LEU:HD21	1:G:874:LEU:HD22	2.03	0.40
1:H:337:THR:HG1	1:H:340:ASN:N	2.19	0.40
1:H:560:ASP:O	1:H:564:ILE:HG12	2.21	0.40
1:H:781:VAL:HG11	1:H:791:TRP:HZ3	1.86	0.40
1:I:207:TRP:CZ2	1:I:224:ILE:HD11	2.56	0.40
1:I:829:LEU:HD21	1:I:874:LEU:HD22	2.03	0.40
1:J:428:GLU:OE1	1:J:429:LEU:N	2.54	0.40
1:K:207:TRP:CZ2	1:K:224:ILE:HD11	2.56	0.40
1:K:271:VAL:O	1:K:274:PHE:N	2.54	0.40
1:K:450:PRO:O	1:K:453:PHE:N	2.55	0.40
1:L:153:LEU:CD2	1:L:267:ARG:HD3	2.51	0.40
1:L:305:LEU:HA	1:L:305:LEU:HD23	1.84	0.40
1:L:413:LYS:CD	1:L:422:ILE:O	2.61	0.40
1:L:468:TYR:HE1	1:L:497:LEU:HB2	1.85	0.40
1:M:28:ASP:HB2	1:M:31:ASP:CG	2.42	0.40
1:M:450:PRO:O	1:M:453:PHE:N	2.55	0.40
1:M:468:TYR:HE1	1:M:497:LEU:HB2	1.85	0.40
1:N:207:TRP:CZ2	1:N:224:ILE:HD11	2.56	0.40
1:N:146:ASN:HB2	1:N:280:THR:CG2	2.51	0.40
1:O:1195:VAL:HG11	1:O:1241:PHE:CZ	2.54	0.40
1:O:560:ASP:O	1:O:564:ILE:HG12	2.21	0.40
1:P:428:GLU:C	1:P:430:LYS:N	2.74	0.40
1:P:560:ASP:HA	1:P:592:ASN:ND2	2.29	0.40
1:P:560:ASP:O	1:P:564:ILE:HG12	2.21	0.40
1:P:717:PHE:HB2	1:P:771:PHE:HD1	1.86	0.40
1:A:428:GLU:OE1	1:A:429:LEU:N	2.54	0.40
1:A:468:TYR:HE1	1:A:497:LEU:HB2	1.85	0.40
1:A:717:PHE:HB2	1:A:771:PHE:HD1	1.86	0.40
1:B:89:MET:O	1:B:92:ILE:HG22	2.21	0.40
1:C:1247:LEU:HD12	1:C:1263:MET:HG2	2.04	0.40
1:C:146:ASN:HB2	1:C:280:THR:CG2	2.51	0.40
1:C:967:PRO:HD2	1:C:976:ASP:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:250:ALA:C	1:D:251:APK:O	2.59	0.40
1:D:428:GLU:C	1:D:430:LYS:N	2.74	0.40
1:D:42:LYS:HG3	1:D:46:ASP:OD2	2.22	0.40
1:D:781:VAL:HG11	1:D:791:TRP:HZ3	1.86	0.40
1:D:967:PRO:HD2	1:D:976:ASP:HB2	2.04	0.40
1:E:146:ASN:HB2	1:E:280:THR:CG2	2.51	0.40
1:E:28:ASP:HB2	1:E:31:ASP:CG	2.42	0.40
1:E:428:GLU:OE1	1:E:429:LEU:N	2.54	0.40
1:E:616:LEU:HG	1:E:618:ASN:H	1.86	0.40
1:F:146:ASN:HB2	1:F:280:THR:CG2	2.51	0.40
1:F:462:TYR:CZ	1:F:494:PHE:CZ	3.03	0.40
1:F:511:SER:HA	1:F:514:ILE:H	1.87	0.40
1:F:553:LEU:HD23	1:F:553:LEU:HA	1.90	0.40
1:F:967:PRO:HD2	1:F:976:ASP:HB2	2.04	0.40
1:G:994:HIS:CE1	1:G:1023:ILE:HG23	2.56	0.40
1:G:28:ASP:HB2	1:G:31:ASP:CG	2.42	0.40
1:G:549:ILE:HD12	1:G:550:GLU:H	1.85	0.40
1:G:560:ASP:HA	1:G:592:ASN:ND2	2.29	0.40
1:G:768:ILE:HG23	1:G:769:ARG:H	1.87	0.40
1:G:717:PHE:HB2	1:G:771:PHE:HD1	1.86	0.40
1:H:147:VAL:HG23	1:H:263:LEU:HG	2.03	0.40
1:H:458:LEU:HD23	1:H:459:ILE:N	2.27	0.40
1:H:89:MET:O	1:H:92:ILE:HG22	2.22	0.40
1:I:28:ASP:HB2	1:I:31:ASP:CG	2.42	0.40
1:I:428:GLU:C	1:I:430:LYS:N	2.74	0.40
1:I:42:LYS:HG3	1:I:46:ASP:OD2	2.22	0.40
1:J:146:ASN:HB2	1:J:280:THR:CG2	2.51	0.40
1:J:519:GLN:HG2	1:J:523:PHE:HE2	1.84	0.40
1:J:560:ASP:HA	1:J:592:ASN:ND2	2.29	0.40
1:J:616:LEU:HG	1:J:618:ASN:H	1.86	0.40
1:K:250:ALA:C	1:K:251:APK:O	2.59	0.40
1:K:28:ASP:HB2	1:K:31:ASP:CG	2.42	0.40
1:K:399:MET:HG3	1:L:335:LEU:CD2	2.52	0.40
1:K:428:GLU:C	1:K:430:LYS:N	2.74	0.40
1:K:42:LYS:HG3	1:K:46:ASP:OD2	2.21	0.40
1:K:656:ARG:HG2	1:K:657:MET:N	2.37	0.40
1:K:717:PHE:HB2	1:K:771:PHE:HD1	1.86	0.40
1:K:967:PRO:HD2	1:K:976:ASP:HB2	2.04	0.40
1:L:1009:ILE:HG13	1:L:1011:PRO:HD3	2.03	0.40
1:L:1247:LEU:HD12	1:L:1263:MET:HG2	2.04	0.40
1:L:146:ASN:HB2	1:L:280:THR:CG2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:462:TYR:OH	1:L:494:PHE:CZ	2.66	0.40
1:M:244:LEU:HD21	1:M:256:PHE:CD2	2.51	0.40
1:M:511:SER:HA	1:M:514:ILE:H	1.86	0.40
1:M:717:PHE:HB2	1:M:771:PHE:HD1	1.86	0.40
1:M:89:MET:O	1:M:92:ILE:HG22	2.22	0.40
1:N:113:LEU:HA	1:N:113:LEU:HD12	1.84	0.40
1:O:147:VAL:HG23	1:O:263:LEU:HG	2.03	0.40
1:O:146:ASN:HB2	1:O:280:THR:CG2	2.51	0.40
1:O:312:LEU:C	1:O:312:LEU:HD23	2.40	0.40
1:O:458:LEU:HD23	1:O:459:ILE:N	2.27	0.40
1:O:519:GLN:HG2	1:O:523:PHE:HE2	1.84	0.40
1:O:781:VAL:HG11	1:O:791:TRP:HZ3	1.86	0.40
1:O:833:LYS:HB3	1:O:834:TYR:H	1.63	0.40
1:O:89:MET:O	1:O:92:ILE:HG22	2.22	0.40
1:P:994:HIS:CE1	1:P:1023:ILE:HG23	2.56	0.40
1:P:42:LYS:HG3	1:P:46:ASP:OD2	2.22	0.40
1:P:462:TYR:OH	1:P:494:PHE:CZ	2.66	0.40
1:P:549:ILE:HD12	1:P:550:GLU:H	1.85	0.40
1:P:656:ARG:HG2	1:P:657:MET:N	2.37	0.40
1:A:1009:ILE:HG13	1:A:1011:PRO:HD3	2.03	0.40
1:A:28:ASP:HB2	1:A:31:ASP:CG	2.42	0.40
1:A:447:TYR:OH	1:A:486:LEU:CD2	2.67	0.40
1:A:464:ASP:O	1:A:468:TYR:CD2	2.75	0.40
1:B:1247:LEU:HD12	1:B:1263:MET:HG2	2.04	0.40
1:B:244:LEU:HD21	1:B:256:PHE:CD2	2.51	0.40
1:B:616:LEU:HG	1:B:618:ASN:H	1.86	0.40
1:B:717:PHE:HB2	1:B:771:PHE:HD1	1.86	0.40
1:B:967:PRO:HD2	1:B:976:ASP:HB2	2.04	0.40
1:C:153:LEU:CD2	1:C:267:ARG:HD3	2.51	0.40
1:C:468:TYR:HE1	1:C:497:LEU:HB2	1.85	0.40
1:C:545:PHE:CE1	1:C:565:ALA:HA	2.55	0.40
1:D:119:VAL:HG23	1:D:120:PHE:N	2.29	0.40
1:D:656:ARG:HG2	1:D:657:MET:N	2.37	0.40
1:E:905:VAL:HG13	1:E:906:ASP:H	1.85	0.40
1:F:1051:GLN:HG3	1:F:1053:PHE:CD2	2.55	0.40
1:F:147:VAL:HG23	1:F:263:LEU:HG	2.03	0.40
1:G:1247:LEU:HD12	1:G:1263:MET:HG2	2.04	0.40
1:G:207:TRP:CZ2	1:G:224:ILE:HD11	2.56	0.40
1:G:146:ASN:HB2	1:G:280:THR:CG2	2.51	0.40
1:G:331:ILE:HD12	1:G:338:TRP:H	1.85	0.40
1:G:603:ILE:HD11	1:G:635:VAL:HG11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:656:ARG:HG2	1:G:657:MET:N	2.37	0.40
1:G:833:LYS:HB3	1:G:834:TYR:H	1.63	0.40
1:G:914:VAL:O	1:G:915:TYR:C	2.60	0.40
1:H:146:ASN:HB2	1:H:280:THR:CG2	2.51	0.40
1:H:28:ASP:HB2	1:H:31:ASP:CG	2.42	0.40
1:H:428:GLU:C	1:H:430:LYS:N	2.74	0.40
1:H:464:ASP:O	1:H:468:TYR:CD2	2.75	0.40
1:H:519:GLN:HG2	1:H:523:PHE:HE2	1.84	0.40
1:H:822:ARG:HH12	1:H:838:ARG:NH2	2.20	0.40
1:I:336:ALA:C	1:I:338:TRP:N	2.74	0.40
1:I:361:GLU:CB	1:I:364:GLU:HB3	2.52	0.40
1:I:511:SER:HA	1:I:514:ILE:H	1.86	0.40
1:I:555:CYS:HA	1:I:558:TYR:HB2	2.04	0.40
1:I:222:HIS:CG	1:J:198:LYS:HZ1	2.39	0.40
1:J:28:ASP:HB2	1:J:31:ASP:CG	2.42	0.40
1:L:271:VAL:O	1:L:274:PHE:N	2.54	0.40
1:L:967:PRO:HD2	1:L:976:ASP:HB2	2.04	0.40
1:M:361:GLU:CB	1:M:364:GLU:HB3	2.52	0.40
1:M:42:LYS:HG3	1:M:46:ASP:OD2	2.22	0.40
1:M:967:PRO:HD2	1:M:976:ASP:HB2	2.04	0.40
1:N:1009:ILE:HG13	1:N:1011:PRO:HD3	2.03	0.40
1:N:1192:SER:OG	1:N:1208:GLU:OE2	2.28	0.40
1:N:428:GLU:OE1	1:N:429:LEU:N	2.54	0.40
1:O:1247:LEU:HD12	1:O:1263:MET:HG2	2.04	0.40
1:O:28:ASP:HB2	1:O:31:ASP:CG	2.42	0.40
1:O:337:THR:HG1	1:O:340:ASN:N	2.20	0.40
1:O:42:LYS:HG3	1:O:46:ASP:OD2	2.22	0.40
1:O:464:ASP:O	1:O:468:TYR:CD2	2.75	0.40
1:O:633:THR:HG22	1:O:643:TYR:HA	1.97	0.40
1:P:1247:LEU:HD12	1:P:1263:MET:HG2	2.04	0.40
1:P:207:TRP:CZ2	1:P:224:ILE:HD11	2.56	0.40
1:P:146:ASN:HB2	1:P:280:THR:CG2	2.51	0.40
1:P:28:ASP:HB2	1:P:31:ASP:CG	2.42	0.40
1:P:768:ILE:HG23	1:P:769:ARG:H	1.87	0.40
1:P:822:ARG:HH12	1:P:838:ARG:NH2	2.20	0.40
1:A:146:ASN:HB2	1:A:280:THR:CG2	2.51	0.40
1:B:337:THR:HG1	1:B:340:ASN:N	2.20	0.40
1:B:361:GLU:CB	1:B:364:GLU:HB3	2.52	0.40
1:B:42:LYS:HG3	1:B:46:ASP:OD2	2.22	0.40
1:B:549:ILE:HD12	1:B:550:GLU:H	1.85	0.40
1:C:1009:ILE:HG13	1:C:1011:PRO:HD3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:271:VAL:O	1:C:274:PHE:N	2.54	0.40
1:C:470:HIS:O	1:C:473:HIS:N	2.53	0.40
1:D:557:LYS:HD3	1:D:1223:GLN:NE2	2.35	0.40
1:E:207:TRP:CZ2	1:E:224:ILE:HD11	2.56	0.40
1:E:515:LEU:O	1:E:516:ASN:OD1	2.40	0.40
1:E:560:ASP:O	1:E:564:ILE:HG12	2.21	0.40
1:E:822:ARG:HH12	1:E:838:ARG:NH2	2.20	0.40
1:F:361:GLU:CB	1:F:364:GLU:HB3	2.52	0.40
1:F:555:CYS:HA	1:F:558:TYR:HB2	2.04	0.40
1:F:822:ARG:HH12	1:F:838:ARG:NH2	2.20	0.40
1:G:996:ILE:HD11	1:G:1020:ILE:HG23	2.04	0.40
1:G:337:THR:HG1	1:G:340:ASN:N	2.20	0.40
1:G:822:ARG:HH12	1:G:838:ARG:NH2	2.20	0.40
1:H:312:LEU:C	1:H:312:LEU:HD23	2.41	0.40
1:H:42:LYS:HG3	1:H:46:ASP:OD2	2.22	0.40
1:H:951:VAL:HB	1:H:958:SER:HB3	2.04	0.40
1:I:147:VAL:HG23	1:I:263:LEU:HG	2.03	0.40
1:I:560:ASP:HA	1:I:592:ASN:ND2	2.29	0.40
1:I:656:ARG:HG2	1:I:657:MET:N	2.37	0.40
1:I:89:MET:O	1:I:92:ILE:HG22	2.22	0.40
1:J:515:LEU:O	1:J:516:ASN:OD1	2.40	0.40
1:K:781:VAL:HG11	1:K:791:TRP:HZ3	1.87	0.40
1:L:616:LEU:HG	1:L:618:ASN:H	1.86	0.40
1:M:1247:LEU:HD12	1:M:1263:MET:HG2	2.04	0.40
1:M:337:THR:HG1	1:M:340:ASN:N	2.20	0.40
1:N:28:ASP:HB2	1:N:31:ASP:CG	2.42	0.40
1:N:447:TYR:OH	1:N:486:LEU:CD2	2.67	0.40
1:N:464:ASP:O	1:N:468:TYR:CD2	2.75	0.40
1:O:428:GLU:C	1:O:430:LYS:N	2.74	0.40
1:O:951:VAL:HB	1:O:958:SER:HB3	2.04	0.40
1:P:1009:ILE:HG13	1:P:1011:PRO:HD3	2.03	0.40
1:P:996:ILE:HD11	1:P:1020:ILE:HG23	2.03	0.40
1:P:125:VAL:O	1:P:125:VAL:HG23	2.22	0.40
1:P:331:ILE:HD12	1:P:338:TRP:H	1.85	0.40
1:P:603:ILE:HD11	1:P:635:VAL:HG11	2.03	0.40
1:P:914:VAL:O	1:P:915:TYR:C	2.60	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	A	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	B	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	C	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	D	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	E	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	F	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	G	1224/1440 (85%)	989 (81%)	202 (16%)	33 (3%)	6	47
1	H	1224/1440 (85%)	988 (81%)	204 (17%)	32 (3%)	7	47
1	I	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	J	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	K	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	L	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	M	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	N	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
1	O	1224/1440 (85%)	988 (81%)	203 (17%)	33 (3%)	6	47
1	P	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	7	47
All	All	19584/23040 (85%)	15822 (81%)	3248 (17%)	514 (3%)	11	47

All (514) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	252	ALA
1	A	315	GLU
1	A	517	THR
1	A	638	GLU
1	A	760	VAL
1	A	914	VAL

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Mol	Chain	Res	Type
1	B	252	ALA
1	B	315	GLU
1	B	517	THR
1	B	638	GLU
1	B	760	VAL
1	B	914	VAL
1	C	252	ALA
1	C	315	GLU
1	C	517	THR
1	C	638	GLU
1	C	760	VAL
1	C	914	VAL
1	D	252	ALA
1	D	315	GLU
1	D	517	THR
1	D	638	GLU
1	D	760	VAL
1	D	914	VAL
1	E	252	ALA
1	E	315	GLU
1	E	517	THR
1	E	638	GLU
1	E	760	VAL
1	E	914	VAL
1	F	252	ALA
1	F	315	GLU
1	F	517	THR
1	F	638	GLU
1	F	760	VAL
1	F	914	VAL
1	G	252	ALA
1	G	315	GLU
1	G	517	THR
1	G	638	GLU
1	G	760	VAL
1	G	914	VAL
1	H	252	ALA
1	H	315	GLU
1	H	517	THR
1	H	638	GLU
1	H	760	VAL
1	H	914	VAL

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Mol	Chain	Res	Type
1	I	252	ALA
1	I	315	GLU
1	I	517	THR
1	I	638	GLU
1	I	760	VAL
1	I	914	VAL
1	J	252	ALA
1	J	315	GLU
1	J	517	THR
1	J	638	GLU
1	J	760	VAL
1	J	914	VAL
1	K	252	ALA
1	K	315	GLU
1	K	517	THR
1	K	638	GLU
1	K	760	VAL
1	K	914	VAL
1	L	252	ALA
1	L	315	GLU
1	L	517	THR
1	L	638	GLU
1	L	760	VAL
1	L	914	VAL
1	M	252	ALA
1	M	315	GLU
1	M	517	THR
1	M	638	GLU
1	M	760	VAL
1	M	914	VAL
1	N	252	ALA
1	N	315	GLU
1	N	517	THR
1	N	638	GLU
1	N	760	VAL
1	N	914	VAL
1	O	252	ALA
1	O	315	GLU
1	O	517	THR
1	O	638	GLU
1	O	760	VAL
1	O	914	VAL

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Mol	Chain	Res	Type
1	P	252	ALA
1	P	315	GLU
1	P	517	THR
1	P	638	GLU
1	P	760	VAL
1	P	914	VAL
1	A	119	VAL
1	A	253	TRP
1	A	318	THR
1	A	410	LEU
1	A	511	SER
1	A	916	LYS
1	B	119	VAL
1	B	253	TRP
1	B	318	THR
1	B	511	SER
1	B	916	LYS
1	C	119	VAL
1	C	253	TRP
1	C	318	THR
1	C	410	LEU
1	C	511	SER
1	C	916	LYS
1	D	119	VAL
1	D	253	TRP
1	D	318	THR
1	D	511	SER
1	D	916	LYS
1	E	119	VAL
1	E	253	TRP
1	E	318	THR
1	E	410	LEU
1	E	511	SER
1	E	916	LYS
1	F	119	VAL
1	F	253	TRP
1	F	318	THR
1	F	511	SER
1	F	916	LYS
1	G	119	VAL
1	G	253	TRP
1	G	318	THR

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Mol	Chain	Res	Type
1	G	410	LEU
1	G	511	SER
1	G	916	LYS
1	H	119	VAL
1	H	253	TRP
1	H	318	THR
1	H	410	LEU
1	H	511	SER
1	H	916	LYS
1	I	119	VAL
1	I	253	TRP
1	I	318	THR
1	I	511	SER
1	I	916	LYS
1	J	119	VAL
1	J	253	TRP
1	J	318	THR
1	J	511	SER
1	J	916	LYS
1	K	119	VAL
1	K	253	TRP
1	K	318	THR
1	K	511	SER
1	K	916	LYS
1	L	119	VAL
1	L	253	TRP
1	L	318	THR
1	L	410	LEU
1	L	511	SER
1	L	916	LYS
1	M	119	VAL
1	M	253	TRP
1	M	318	THR
1	M	410	LEU
1	M	511	SER
1	M	916	LYS
1	N	119	VAL
1	N	253	TRP
1	N	318	THR
1	N	511	SER
1	N	916	LYS
1	O	119	VAL

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Mol	Chain	Res	Type
1	O	253	TRP
1	O	318	THR
1	O	410	LEU
1	O	511	SER
1	O	916	LYS
1	P	119	VAL
1	P	253	TRP
1	P	318	THR
1	P	410	LEU
1	P	511	SER
1	P	916	LYS
1	A	341	TRP
1	A	430	LYS
1	A	902	ILE
1	A	1031	ILE
1	A	1169	ILE
1	B	341	TRP
1	B	410	LEU
1	B	430	LYS
1	B	902	ILE
1	B	1031	ILE
1	B	1169	ILE
1	C	341	TRP
1	C	430	LYS
1	C	902	ILE
1	C	1031	ILE
1	C	1169	ILE
1	D	341	TRP
1	D	410	LEU
1	D	430	LYS
1	D	902	ILE
1	D	1031	ILE
1	D	1169	ILE
1	E	341	TRP
1	E	430	LYS
1	E	902	ILE
1	E	1031	ILE
1	E	1169	ILE
1	F	341	TRP
1	F	410	LEU
1	F	430	LYS
1	F	902	ILE

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Mol	Chain	Res	Type
1	F	1031	ILE
1	F	1169	ILE
1	G	341	TRP
1	G	430	LYS
1	G	902	ILE
1	G	1031	ILE
1	G	1169	ILE
1	H	341	TRP
1	H	430	LYS
1	H	902	ILE
1	H	1031	ILE
1	H	1169	ILE
1	I	341	TRP
1	I	410	LEU
1	I	430	LYS
1	I	902	ILE
1	I	1031	ILE
1	I	1169	ILE
1	J	341	TRP
1	J	410	LEU
1	J	430	LYS
1	J	902	ILE
1	J	1031	ILE
1	J	1169	ILE
1	K	341	TRP
1	K	410	LEU
1	K	430	LYS
1	K	902	ILE
1	K	1031	ILE
1	K	1169	ILE
1	L	341	TRP
1	L	430	LYS
1	L	902	ILE
1	L	1031	ILE
1	L	1169	ILE
1	M	341	TRP
1	M	430	LYS
1	M	902	ILE
1	M	1031	ILE
1	M	1169	ILE
1	N	341	TRP
1	N	410	LEU

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Mol	Chain	Res	Type
1	N	430	LYS
1	N	902	ILE
1	N	1031	ILE
1	N	1169	ILE
1	O	341	TRP
1	O	430	LYS
1	O	902	ILE
1	O	1031	ILE
1	O	1169	ILE
1	P	341	TRP
1	P	430	LYS
1	P	902	ILE
1	P	1031	ILE
1	P	1169	ILE
1	A	415	PRO
1	A	432	LYS
1	A	439	LEU
1	A	512	GLY
1	A	518	LEU
1	A	706	ILE
1	A	915	TYR
1	B	415	PRO
1	B	432	LYS
1	B	439	LEU
1	B	512	GLY
1	B	518	LEU
1	B	706	ILE
1	B	915	TYR
1	C	415	PRO
1	C	432	LYS
1	C	439	LEU
1	C	512	GLY
1	C	518	LEU
1	C	706	ILE
1	C	915	TYR
1	D	415	PRO
1	D	432	LYS
1	D	439	LEU
1	D	512	GLY
1	D	518	LEU
1	D	706	ILE
1	D	915	TYR

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Mol	Chain	Res	Type
1	E	415	PRO
1	E	432	LYS
1	E	439	LEU
1	E	512	GLY
1	E	518	LEU
1	E	706	ILE
1	E	915	TYR
1	F	415	PRO
1	F	432	LYS
1	F	439	LEU
1	F	512	GLY
1	F	518	LEU
1	F	706	ILE
1	F	915	TYR
1	G	415	PRO
1	G	432	LYS
1	G	439	LEU
1	G	512	GLY
1	G	518	LEU
1	G	706	ILE
1	G	915	TYR
1	H	415	PRO
1	H	432	LYS
1	H	439	LEU
1	H	512	GLY
1	H	518	LEU
1	H	706	ILE
1	H	915	TYR
1	I	415	PRO
1	I	432	LYS
1	I	439	LEU
1	I	512	GLY
1	I	518	LEU
1	I	706	ILE
1	I	915	TYR
1	J	415	PRO
1	J	432	LYS
1	J	439	LEU
1	J	512	GLY
1	J	518	LEU
1	J	706	ILE
1	J	915	TYR

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Mol	Chain	Res	Type
1	K	415	PRO
1	K	432	LYS
1	K	439	LEU
1	K	512	GLY
1	K	518	LEU
1	K	706	ILE
1	K	915	TYR
1	L	415	PRO
1	L	432	LYS
1	L	439	LEU
1	L	512	GLY
1	L	518	LEU
1	L	706	ILE
1	L	915	TYR
1	M	415	PRO
1	M	432	LYS
1	M	439	LEU
1	M	512	GLY
1	M	518	LEU
1	M	706	ILE
1	M	915	TYR
1	N	415	PRO
1	N	432	LYS
1	N	439	LEU
1	N	512	GLY
1	N	518	LEU
1	N	706	ILE
1	N	915	TYR
1	O	415	PRO
1	O	432	LYS
1	O	439	LEU
1	O	512	GLY
1	O	518	LEU
1	O	706	ILE
1	O	915	TYR
1	P	415	PRO
1	P	432	LYS
1	P	439	LEU
1	P	512	GLY
1	P	518	LEU
1	P	706	ILE
1	P	915	TYR

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Mol	Chain	Res	Type
1	A	121	ALA
1	A	126	SER
1	A	316	VAL
1	A	424	SER
1	A	1228	ILE
1	B	121	ALA
1	B	126	SER
1	B	316	VAL
1	B	424	SER
1	B	1228	ILE
1	C	121	ALA
1	C	126	SER
1	C	316	VAL
1	C	424	SER
1	C	1228	ILE
1	D	121	ALA
1	D	126	SER
1	D	316	VAL
1	D	424	SER
1	D	1228	ILE
1	E	121	ALA
1	E	126	SER
1	E	316	VAL
1	E	424	SER
1	E	1228	ILE
1	F	121	ALA
1	F	126	SER
1	F	316	VAL
1	F	424	SER
1	F	1228	ILE
1	G	121	ALA
1	G	126	SER
1	G	316	VAL
1	G	424	SER
1	G	1228	ILE
1	H	121	ALA
1	H	126	SER
1	H	316	VAL
1	H	424	SER
1	H	1228	ILE
1	I	121	ALA
1	I	126	SER

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Mol	Chain	Res	Type
1	I	316	VAL
1	I	424	SER
1	I	1228	ILE
1	J	121	ALA
1	J	126	SER
1	J	316	VAL
1	J	424	SER
1	J	1228	ILE
1	K	121	ALA
1	K	126	SER
1	K	316	VAL
1	K	424	SER
1	K	1228	ILE
1	L	121	ALA
1	L	126	SER
1	L	316	VAL
1	L	424	SER
1	L	1228	ILE
1	M	121	ALA
1	M	126	SER
1	M	316	VAL
1	M	424	SER
1	M	1228	ILE
1	N	121	ALA
1	N	126	SER
1	N	316	VAL
1	N	424	SER
1	N	1228	ILE
1	O	121	ALA
1	O	126	SER
1	O	316	VAL
1	O	424	SER
1	O	1228	ILE
1	P	121	ALA
1	P	126	SER
1	P	316	VAL
1	P	424	SER
1	P	1228	ILE
1	G	194	GLU
1	O	194	GLU
1	A	919	VAL
1	B	919	VAL

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Mol	Chain	Res	Type
1	C	919	VAL
1	D	919	VAL
1	E	919	VAL
1	F	919	VAL
1	G	919	VAL
1	H	919	VAL
1	I	919	VAL
1	J	919	VAL
1	K	919	VAL
1	L	919	VAL
1	M	919	VAL
1	N	919	VAL
1	O	919	VAL
1	P	919	VAL
1	F	344	VAL
1	G	344	VAL
1	J	344	VAL
1	N	344	VAL
1	N	883	ILE
1	A	344	VAL
1	A	883	ILE
1	B	344	VAL
1	B	883	ILE
1	C	344	VAL
1	C	883	ILE
1	D	344	VAL
1	D	883	ILE
1	E	344	VAL
1	E	883	ILE
1	F	883	ILE
1	G	883	ILE
1	H	344	VAL
1	H	883	ILE
1	I	344	VAL
1	I	883	ILE
1	J	883	ILE
1	K	344	VAL
1	K	883	ILE
1	L	344	VAL
1	L	883	ILE
1	M	344	VAL
1	M	883	ILE

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Mol	Chain	Res	Type
1	O	344	VAL
1	O	883	ILE
1	P	344	VAL
1	P	883	ILE

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	A	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	B	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	C	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	D	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	E	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	F	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	G	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	H	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	I	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	J	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	K	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	L	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	M	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	N	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	O	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
1	P	1138/1315 (86%)	1137 (100%)	1 (0%)	95	97
All	All	18208/21040 (86%)	18192 (100%)	16 (0%)	95	97

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	914	VAL
1	B	914	VAL
1	C	914	VAL
1	D	914	VAL
1	E	914	VAL
1	F	914	VAL
1	G	914	VAL
1	H	914	VAL
1	I	914	VAL
1	J	914	VAL
1	K	914	VAL
1	L	914	VAL
1	M	914	VAL
1	N	914	VAL
1	O	914	VAL
1	P	914	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (462) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	11	GLN
1	A	146	ASN
1	A	171	GLN
1	A	182	ASN
1	A	187	ASN
1	A	222	HIS
1	A	249	ASN
1	A	282	HIS
1	A	287	HIS
1	A	435	ASN
1	A	446	HIS
1	A	473	HIS
1	A	477	ASN
1	A	509	ASN
1	A	592	ASN
1	A	604	ASN
1	A	608	ASN
1	A	612	HIS
1	A	618	ASN
1	A	670	HIS
1	A	738	ASN
1	A	810	ASN
1	A	850	GLN

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Mol	Chain	Res	Type
1	A	930	HIS
1	A	952	HIS
1	A	968	ASN
1	A	994	HIS
1	A	1027	ASN
1	A	1223	GLN
1	B	11	GLN
1	B	146	ASN
1	B	171	GLN
1	B	182	ASN
1	B	187	ASN
1	B	222	HIS
1	B	249	ASN
1	B	282	HIS
1	B	287	HIS
1	B	435	ASN
1	B	446	HIS
1	B	473	HIS
1	B	477	ASN
1	B	509	ASN
1	B	592	ASN
1	B	604	ASN
1	B	608	ASN
1	B	612	HIS
1	B	618	ASN
1	B	670	HIS
1	B	738	ASN
1	B	810	ASN
1	B	850	GLN
1	B	930	HIS
1	B	952	HIS
1	B	968	ASN
1	B	994	HIS
1	B	1027	ASN
1	B	1223	GLN
1	C	11	GLN
1	C	146	ASN
1	C	171	GLN
1	C	182	ASN
1	C	187	ASN
1	C	249	ASN
1	C	282	HIS

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Mol	Chain	Res	Type
1	C	287	HIS
1	C	435	ASN
1	C	446	HIS
1	C	473	HIS
1	C	477	ASN
1	C	509	ASN
1	C	592	ASN
1	C	604	ASN
1	C	608	ASN
1	C	612	HIS
1	C	618	ASN
1	C	670	HIS
1	C	738	ASN
1	C	810	ASN
1	C	850	GLN
1	C	930	HIS
1	C	952	HIS
1	C	968	ASN
1	C	994	HIS
1	C	1027	ASN
1	C	1223	GLN
1	D	11	GLN
1	D	146	ASN
1	D	171	GLN
1	D	182	ASN
1	D	187	ASN
1	D	222	HIS
1	D	249	ASN
1	D	282	HIS
1	D	287	HIS
1	D	435	ASN
1	D	446	HIS
1	D	473	HIS
1	D	477	ASN
1	D	509	ASN
1	D	592	ASN
1	D	604	ASN
1	D	608	ASN
1	D	612	HIS
1	D	618	ASN
1	D	670	HIS
1	D	738	ASN

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Mol	Chain	Res	Type
1	D	810	ASN
1	D	850	GLN
1	D	930	HIS
1	D	952	HIS
1	D	968	ASN
1	D	994	HIS
1	D	1027	ASN
1	D	1223	GLN
1	E	11	GLN
1	E	146	ASN
1	E	171	GLN
1	E	182	ASN
1	E	187	ASN
1	E	222	HIS
1	E	249	ASN
1	E	282	HIS
1	E	287	HIS
1	E	435	ASN
1	E	446	HIS
1	E	473	HIS
1	E	477	ASN
1	E	509	ASN
1	E	592	ASN
1	E	604	ASN
1	E	608	ASN
1	E	612	HIS
1	E	618	ASN
1	E	670	HIS
1	E	738	ASN
1	E	810	ASN
1	E	850	GLN
1	E	930	HIS
1	E	952	HIS
1	E	968	ASN
1	E	994	HIS
1	E	1027	ASN
1	E	1223	GLN
1	F	11	GLN
1	F	117	ASN
1	F	146	ASN
1	F	171	GLN
1	F	182	ASN

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Mol	Chain	Res	Type
1	F	187	ASN
1	F	222	HIS
1	F	249	ASN
1	F	282	HIS
1	F	287	HIS
1	F	435	ASN
1	F	446	HIS
1	F	473	HIS
1	F	477	ASN
1	F	509	ASN
1	F	592	ASN
1	F	604	ASN
1	F	608	ASN
1	F	612	HIS
1	F	618	ASN
1	F	670	HIS
1	F	738	ASN
1	F	810	ASN
1	F	850	GLN
1	F	930	HIS
1	F	952	HIS
1	F	968	ASN
1	F	994	HIS
1	F	1027	ASN
1	F	1223	GLN
1	G	11	GLN
1	G	146	ASN
1	G	171	GLN
1	G	182	ASN
1	G	187	ASN
1	G	222	HIS
1	G	249	ASN
1	G	282	HIS
1	G	287	HIS
1	G	435	ASN
1	G	446	HIS
1	G	473	HIS
1	G	477	ASN
1	G	509	ASN
1	G	592	ASN
1	G	604	ASN
1	G	608	ASN

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Mol	Chain	Res	Type
1	G	612	HIS
1	G	618	ASN
1	G	670	HIS
1	G	738	ASN
1	G	810	ASN
1	G	850	GLN
1	G	930	HIS
1	G	952	HIS
1	G	968	ASN
1	G	994	HIS
1	G	1027	ASN
1	G	1223	GLN
1	H	11	GLN
1	H	146	ASN
1	H	171	GLN
1	H	182	ASN
1	H	187	ASN
1	H	222	HIS
1	H	249	ASN
1	H	282	HIS
1	H	287	HIS
1	H	435	ASN
1	H	446	HIS
1	H	473	HIS
1	H	477	ASN
1	H	509	ASN
1	H	592	ASN
1	H	604	ASN
1	H	608	ASN
1	H	612	HIS
1	H	618	ASN
1	H	670	HIS
1	H	738	ASN
1	H	810	ASN
1	H	850	GLN
1	H	930	HIS
1	H	952	HIS
1	H	968	ASN
1	H	994	HIS
1	H	1027	ASN
1	H	1223	GLN
1	I	11	GLN

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Mol	Chain	Res	Type
1	I	146	ASN
1	I	171	GLN
1	I	182	ASN
1	I	187	ASN
1	I	222	HIS
1	I	249	ASN
1	I	282	HIS
1	I	287	HIS
1	I	435	ASN
1	I	446	HIS
1	I	473	HIS
1	I	477	ASN
1	I	509	ASN
1	I	592	ASN
1	I	604	ASN
1	I	612	HIS
1	I	618	ASN
1	I	670	HIS
1	I	738	ASN
1	I	810	ASN
1	I	850	GLN
1	I	930	HIS
1	I	952	HIS
1	I	968	ASN
1	I	994	HIS
1	I	1027	ASN
1	I	1223	GLN
1	J	11	GLN
1	J	146	ASN
1	J	171	GLN
1	J	182	ASN
1	J	187	ASN
1	J	222	HIS
1	J	249	ASN
1	J	282	HIS
1	J	287	HIS
1	J	435	ASN
1	J	446	HIS
1	J	473	HIS
1	J	477	ASN
1	J	509	ASN
1	J	592	ASN

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Mol	Chain	Res	Type
1	J	604	ASN
1	J	608	ASN
1	J	612	HIS
1	J	618	ASN
1	J	670	HIS
1	J	738	ASN
1	J	810	ASN
1	J	850	GLN
1	J	930	HIS
1	J	952	HIS
1	J	968	ASN
1	J	994	HIS
1	J	1027	ASN
1	J	1223	GLN
1	K	11	GLN
1	K	146	ASN
1	K	171	GLN
1	K	182	ASN
1	K	187	ASN
1	K	222	HIS
1	K	249	ASN
1	K	282	HIS
1	K	287	HIS
1	K	435	ASN
1	K	446	HIS
1	K	473	HIS
1	K	477	ASN
1	K	509	ASN
1	K	592	ASN
1	K	604	ASN
1	K	608	ASN
1	K	612	HIS
1	K	618	ASN
1	K	670	HIS
1	K	738	ASN
1	K	810	ASN
1	K	850	GLN
1	K	930	HIS
1	K	952	HIS
1	K	968	ASN
1	K	994	HIS
1	K	1027	ASN

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Mol	Chain	Res	Type
1	K	1223	GLN
1	L	11	GLN
1	L	146	ASN
1	L	171	GLN
1	L	182	ASN
1	L	187	ASN
1	L	249	ASN
1	L	282	HIS
1	L	287	HIS
1	L	435	ASN
1	L	446	HIS
1	L	473	HIS
1	L	477	ASN
1	L	509	ASN
1	L	592	ASN
1	L	604	ASN
1	L	608	ASN
1	L	612	HIS
1	L	618	ASN
1	L	670	HIS
1	L	738	ASN
1	L	810	ASN
1	L	850	GLN
1	L	930	HIS
1	L	952	HIS
1	L	968	ASN
1	L	994	HIS
1	L	1027	ASN
1	L	1223	GLN
1	M	11	GLN
1	M	146	ASN
1	M	171	GLN
1	M	182	ASN
1	M	187	ASN
1	M	222	HIS
1	M	249	ASN
1	M	282	HIS
1	M	287	HIS
1	M	435	ASN
1	M	446	HIS
1	M	473	HIS
1	M	477	ASN

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Mol	Chain	Res	Type
1	M	509	ASN
1	M	592	ASN
1	M	604	ASN
1	M	608	ASN
1	M	612	HIS
1	M	618	ASN
1	M	670	HIS
1	M	738	ASN
1	M	810	ASN
1	M	850	GLN
1	M	930	HIS
1	M	952	HIS
1	M	968	ASN
1	M	994	HIS
1	M	1027	ASN
1	M	1223	GLN
1	N	11	GLN
1	N	146	ASN
1	N	171	GLN
1	N	182	ASN
1	N	187	ASN
1	N	222	HIS
1	N	249	ASN
1	N	282	HIS
1	N	287	HIS
1	N	435	ASN
1	N	446	HIS
1	N	473	HIS
1	N	477	ASN
1	N	509	ASN
1	N	592	ASN
1	N	604	ASN
1	N	608	ASN
1	N	612	HIS
1	N	618	ASN
1	N	670	HIS
1	N	738	ASN
1	N	810	ASN
1	N	850	GLN
1	N	930	HIS
1	N	952	HIS
1	N	968	ASN

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Mol	Chain	Res	Type
1	N	994	HIS
1	N	1027	ASN
1	N	1223	GLN
1	O	11	GLN
1	O	146	ASN
1	O	171	GLN
1	O	182	ASN
1	O	187	ASN
1	O	222	HIS
1	O	249	ASN
1	O	282	HIS
1	O	287	HIS
1	O	435	ASN
1	O	446	HIS
1	O	473	HIS
1	O	477	ASN
1	O	509	ASN
1	O	592	ASN
1	O	604	ASN
1	O	608	ASN
1	O	612	HIS
1	O	618	ASN
1	O	670	HIS
1	O	738	ASN
1	O	810	ASN
1	O	850	GLN
1	O	930	HIS
1	O	952	HIS
1	O	968	ASN
1	O	994	HIS
1	O	1027	ASN
1	O	1223	GLN
1	P	11	GLN
1	P	146	ASN
1	P	171	GLN
1	P	182	ASN
1	P	187	ASN
1	P	222	HIS
1	P	249	ASN
1	P	282	HIS
1	P	287	HIS
1	P	435	ASN

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Mol	Chain	Res	Type
1	P	446	HIS
1	P	473	HIS
1	P	477	ASN
1	P	509	ASN
1	P	592	ASN
1	P	604	ASN
1	P	608	ASN
1	P	612	HIS
1	P	618	ASN
1	P	670	HIS
1	P	738	ASN
1	P	810	ASN
1	P	850	GLN
1	P	930	HIS
1	P	952	HIS
1	P	968	ASN
1	P	994	HIS
1	P	1027	ASN
1	P	1223	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	APK	A	251	1	28,33,33	3.09	10 (35%)	27,47,47	3.57	5 (18%)
1	APK	B	251	1	28,33,33	3.08	10 (35%)	27,47,47	3.57	5 (18%)
1	APK	C	251	1	28,33,33	3.08	10 (35%)	27,47,47	3.56	5 (18%)
1	APK	D	251	1	28,33,33	3.09	10 (35%)	27,47,47	3.57	5 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	APK	E	251	1	28,33,33	3.08	10 (35%)	27,47,47	3.56	5 (18%)
1	APK	F	251	1	28,33,33	3.08	10 (35%)	27,47,47	3.57	5 (18%)
1	APK	G	251	1	28,33,33	3.08	10 (35%)	27,47,47	3.57	5 (18%)
1	APK	H	251	1	28,33,33	3.09	10 (35%)	27,47,47	3.56	5 (18%)
1	APK	I	251	1	28,33,33	3.08	10 (35%)	27,47,47	3.56	5 (18%)
1	APK	J	251	1	28,33,33	3.08	10 (35%)	27,47,47	3.57	5 (18%)
1	APK	K	251	1	28,33,33	3.09	10 (35%)	27,47,47	3.56	5 (18%)
1	APK	L	251	1	28,33,33	3.09	10 (35%)	27,47,47	3.56	5 (18%)
1	APK	M	251	1	28,33,33	3.08	11 (39%)	27,47,47	3.56	5 (18%)
1	APK	N	251	1	28,33,33	3.08	11 (39%)	27,47,47	3.56	5 (18%)
1	APK	O	251	1	28,33,33	3.08	10 (35%)	27,47,47	3.57	5 (18%)
1	APK	P	251	1	28,33,33	3.08	10 (35%)	27,47,47	3.57	5 (18%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	APK	A	251	1	-	0/14/37/37	0/3/3/3
1	APK	B	251	1	-	0/14/37/37	0/3/3/3
1	APK	C	251	1	-	0/14/37/37	0/3/3/3
1	APK	D	251	1	-	0/14/37/37	0/3/3/3
1	APK	E	251	1	-	0/14/37/37	0/3/3/3
1	APK	F	251	1	-	0/14/37/37	0/3/3/3
1	APK	G	251	1	-	0/14/37/37	0/3/3/3
1	APK	H	251	1	-	0/14/37/37	0/3/3/3
1	APK	I	251	1	-	0/14/37/37	0/3/3/3
1	APK	J	251	1	-	0/14/37/37	0/3/3/3
1	APK	K	251	1	-	0/14/37/37	0/3/3/3
1	APK	L	251	1	-	0/14/37/37	0/3/3/3
1	APK	M	251	1	-	0/14/37/37	0/3/3/3
1	APK	N	251	1	-	0/14/37/37	0/3/3/3
1	APK	O	251	1	-	0/14/37/37	0/3/3/3
1	APK	P	251	1	-	0/14/37/37	0/3/3/3

All (162) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	251	APK	C2'-C3'	-8.28	1.31	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	251	APK	C2'-C3'	-8.28	1.31	1.53
1	K	251	APK	C2'-C3'	-8.27	1.31	1.53
1	N	251	APK	C2'-C3'	-8.26	1.31	1.53
1	G	251	APK	C2'-C3'	-8.26	1.31	1.53
1	F	251	APK	C2'-C3'	-8.26	1.31	1.53
1	E	251	APK	C2'-C3'	-8.26	1.31	1.53
1	A	251	APK	C2'-C3'	-8.26	1.31	1.53
1	L	251	APK	C2'-C3'	-8.26	1.31	1.53
1	M	251	APK	C2'-C3'	-8.24	1.31	1.53
1	O	251	APK	C2'-C3'	-8.24	1.31	1.53
1	I	251	APK	C2'-C3'	-8.24	1.31	1.53
1	H	251	APK	C2'-C3'	-8.24	1.31	1.53
1	D	251	APK	C2'-C3'	-8.24	1.31	1.53
1	P	251	APK	C2'-C3'	-8.24	1.31	1.53
1	J	251	APK	C2'-C3'	-8.23	1.31	1.53
1	O	251	APK	C4-N3	-4.49	1.29	1.35
1	E	251	APK	C4-N3	-4.47	1.29	1.35
1	G	251	APK	C4-N3	-4.47	1.29	1.35
1	A	251	APK	C4-N3	-4.47	1.29	1.35
1	F	251	APK	C4-N3	-4.47	1.29	1.35
1	D	251	APK	C4-N3	-4.46	1.29	1.35
1	I	251	APK	C4-N3	-4.46	1.29	1.35
1	H	251	APK	C4-N3	-4.46	1.29	1.35
1	M	251	APK	C4-N3	-4.46	1.29	1.35
1	N	251	APK	C4-N3	-4.45	1.29	1.35
1	J	251	APK	C4-N3	-4.45	1.29	1.35
1	C	251	APK	C4-N3	-4.45	1.29	1.35
1	L	251	APK	C4-N3	-4.45	1.29	1.35
1	K	251	APK	C4-N3	-4.44	1.29	1.35
1	P	251	APK	C4-N3	-4.44	1.29	1.35
1	B	251	APK	C4-N3	-4.41	1.29	1.35
1	L	251	APK	C8-N7	-4.08	1.26	1.34
1	O	251	APK	C8-N7	-4.08	1.26	1.34
1	J	251	APK	C8-N7	-4.08	1.26	1.34
1	B	251	APK	C8-N7	-4.07	1.26	1.34
1	D	251	APK	C8-N7	-4.07	1.26	1.34
1	M	251	APK	C8-N7	-4.07	1.26	1.34
1	I	251	APK	C8-N7	-4.07	1.26	1.34
1	H	251	APK	C8-N7	-4.07	1.26	1.34
1	P	251	APK	C8-N7	-4.06	1.26	1.34
1	A	251	APK	C8-N7	-4.05	1.26	1.34
1	C	251	APK	C8-N7	-4.05	1.26	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	251	APK	C8-N7	-4.05	1.26	1.34
1	E	251	APK	C8-N7	-4.05	1.26	1.34
1	K	251	APK	C8-N7	-4.04	1.26	1.34
1	N	251	APK	C8-N7	-4.03	1.26	1.34
1	G	251	APK	C8-N7	-4.03	1.26	1.34
1	D	251	APK	P-O2P	-3.05	1.48	1.56
1	K	251	APK	P-O2P	-3.04	1.48	1.56
1	E	251	APK	P-O2P	-3.04	1.48	1.56
1	A	251	APK	P-O2P	-3.02	1.48	1.56
1	C	251	APK	P-O2P	-3.02	1.48	1.56
1	M	251	APK	P-O2P	-3.02	1.48	1.56
1	O	251	APK	P-O2P	-3.02	1.48	1.56
1	I	251	APK	P-O2P	-3.02	1.48	1.56
1	H	251	APK	P-O2P	-3.02	1.48	1.56
1	F	251	APK	P-O2P	-3.02	1.48	1.56
1	P	251	APK	P-O2P	-3.02	1.48	1.56
1	N	251	APK	P-O2P	-3.02	1.48	1.56
1	J	251	APK	P-O2P	-3.02	1.48	1.56
1	G	251	APK	P-O2P	-3.01	1.48	1.56
1	B	251	APK	P-O2P	-3.01	1.48	1.56
1	L	251	APK	P-O2P	-3.01	1.48	1.56
1	O	251	APK	C5-N7	-2.13	1.31	1.39
1	C	251	APK	C5-N7	-2.11	1.31	1.39
1	J	251	APK	C5-N7	-2.10	1.31	1.39
1	P	251	APK	C5-N7	-2.10	1.31	1.39
1	G	251	APK	C5-N7	-2.10	1.31	1.39
1	L	251	APK	C5-N7	-2.10	1.31	1.39
1	F	251	APK	C5-N7	-2.10	1.31	1.39
1	A	251	APK	C5-N7	-2.10	1.31	1.39
1	E	251	APK	C5-N7	-2.10	1.31	1.39
1	N	251	APK	C5-N7	-2.10	1.31	1.39
1	B	251	APK	C5-N7	-2.09	1.31	1.39
1	K	251	APK	C5-N7	-2.09	1.31	1.39
1	M	251	APK	C5-N7	-2.09	1.32	1.39
1	I	251	APK	C5-N7	-2.09	1.32	1.39
1	H	251	APK	C5-N7	-2.09	1.32	1.39
1	D	251	APK	C5-N7	-2.09	1.32	1.39
1	N	251	APK	C2'-C1'	-2.03	1.50	1.53
1	M	251	APK	C2'-C1'	-2.02	1.50	1.53
1	P	251	APK	O2'-C2'	2.16	1.48	1.43
1	B	251	APK	O2'-C2'	2.16	1.48	1.43
1	G	251	APK	O2'-C2'	2.17	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	251	APK	O2'-C2'	2.17	1.48	1.43
1	O	251	APK	O2'-C2'	2.18	1.48	1.43
1	H	251	APK	O2'-C2'	2.18	1.48	1.43
1	C	251	APK	O2'-C2'	2.18	1.48	1.43
1	E	251	APK	O2'-C2'	2.18	1.48	1.43
1	D	251	APK	O2'-C2'	2.19	1.48	1.43
1	A	251	APK	O2'-C2'	2.19	1.48	1.43
1	M	251	APK	O2'-C2'	2.19	1.48	1.43
1	N	251	APK	O2'-C2'	2.19	1.48	1.43
1	L	251	APK	O2'-C2'	2.20	1.48	1.43
1	K	251	APK	O2'-C2'	2.21	1.48	1.43
1	F	251	APK	O2'-C2'	2.21	1.48	1.43
1	I	251	APK	O2'-C2'	2.22	1.48	1.43
1	O	251	APK	C6-N6	2.69	1.45	1.34
1	G	251	APK	C6-N6	2.69	1.45	1.34
1	N	251	APK	C6-N6	2.70	1.45	1.34
1	M	251	APK	C6-N6	2.70	1.45	1.34
1	I	251	APK	C6-N6	2.71	1.45	1.34
1	B	251	APK	C6-N6	2.71	1.45	1.34
1	P	251	APK	C6-N6	2.71	1.45	1.34
1	A	251	APK	C6-N6	2.71	1.45	1.34
1	C	251	APK	C6-N6	2.71	1.45	1.34
1	J	251	APK	C6-N6	2.71	1.45	1.34
1	D	251	APK	C6-N6	2.72	1.45	1.34
1	F	251	APK	C6-N6	2.72	1.45	1.34
1	E	251	APK	C6-N6	2.72	1.45	1.34
1	L	251	APK	C6-N6	2.72	1.45	1.34
1	H	251	APK	C6-N6	2.72	1.45	1.34
1	K	251	APK	C6-N6	2.74	1.45	1.34
1	M	251	APK	O3'-C3'	5.57	1.56	1.43
1	H	251	APK	O3'-C3'	5.57	1.56	1.43
1	K	251	APK	O3'-C3'	5.57	1.56	1.43
1	J	251	APK	O3'-C3'	5.57	1.56	1.43
1	B	251	APK	O3'-C3'	5.59	1.56	1.43
1	P	251	APK	O3'-C3'	5.59	1.56	1.43
1	E	251	APK	O3'-C3'	5.59	1.56	1.43
1	L	251	APK	O3'-C3'	5.59	1.56	1.43
1	C	251	APK	O3'-C3'	5.60	1.56	1.43
1	A	251	APK	O3'-C3'	5.60	1.56	1.43
1	O	251	APK	O3'-C3'	5.61	1.56	1.43
1	I	251	APK	O3'-C3'	5.61	1.56	1.43
1	N	251	APK	O3'-C3'	5.61	1.56	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	251	APK	O3'-C3'	5.61	1.56	1.43
1	F	251	APK	O3'-C3'	5.61	1.56	1.43
1	D	251	APK	O3'-C3'	5.61	1.56	1.43
1	F	251	APK	P-O1P	5.69	1.52	1.46
1	E	251	APK	P-O1P	5.69	1.52	1.46
1	B	251	APK	P-O1P	5.69	1.52	1.46
1	J	251	APK	P-O1P	5.69	1.52	1.46
1	L	251	APK	P-O1P	5.71	1.52	1.46
1	P	251	APK	P-O1P	5.73	1.52	1.46
1	M	251	APK	P-O1P	5.73	1.52	1.46
1	O	251	APK	P-O1P	5.73	1.52	1.46
1	I	251	APK	P-O1P	5.73	1.52	1.46
1	N	251	APK	P-O1P	5.73	1.52	1.46
1	H	251	APK	P-O1P	5.73	1.52	1.46
1	K	251	APK	P-O1P	5.76	1.52	1.46
1	A	251	APK	P-O1P	5.77	1.52	1.46
1	G	251	APK	P-O1P	5.77	1.52	1.46
1	C	251	APK	P-O1P	5.80	1.52	1.46
1	D	251	APK	P-O1P	5.80	1.52	1.46
1	C	251	APK	P-NZ	7.62	1.69	1.61
1	M	251	APK	P-NZ	7.66	1.69	1.61
1	O	251	APK	P-NZ	7.66	1.69	1.61
1	I	251	APK	P-NZ	7.66	1.69	1.61
1	P	251	APK	P-NZ	7.67	1.69	1.61
1	F	251	APK	P-NZ	7.68	1.69	1.61
1	J	251	APK	P-NZ	7.68	1.69	1.61
1	G	251	APK	P-NZ	7.68	1.69	1.61
1	E	251	APK	P-NZ	7.69	1.69	1.61
1	N	251	APK	P-NZ	7.69	1.69	1.61
1	A	251	APK	P-NZ	7.69	1.69	1.61
1	D	251	APK	P-NZ	7.73	1.69	1.61
1	B	251	APK	P-NZ	7.74	1.69	1.61
1	H	251	APK	P-NZ	7.74	1.69	1.61
1	K	251	APK	P-NZ	7.76	1.69	1.61
1	L	251	APK	P-NZ	7.78	1.69	1.61

All (80) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	251	APK	N3-C2-N1	-10.71	120.46	128.87
1	D	251	APK	N3-C2-N1	-10.70	120.47	128.87
1	E	251	APK	N3-C2-N1	-10.70	120.47	128.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	251	APK	N3-C2-N1	-10.69	120.47	128.87
1	P	251	APK	N3-C2-N1	-10.69	120.48	128.87
1	M	251	APK	N3-C2-N1	-10.67	120.49	128.87
1	K	251	APK	N3-C2-N1	-10.67	120.49	128.87
1	H	251	APK	N3-C2-N1	-10.67	120.49	128.87
1	O	251	APK	N3-C2-N1	-10.66	120.49	128.87
1	A	251	APK	N3-C2-N1	-10.66	120.50	128.87
1	L	251	APK	N3-C2-N1	-10.65	120.51	128.87
1	B	251	APK	N3-C2-N1	-10.65	120.51	128.87
1	N	251	APK	N3-C2-N1	-10.64	120.51	128.87
1	J	251	APK	N3-C2-N1	-10.64	120.51	128.87
1	G	251	APK	N3-C2-N1	-10.63	120.52	128.87
1	I	251	APK	N3-C2-N1	-10.61	120.53	128.87
1	K	251	APK	O4'-C4'-C3'	-4.73	95.57	105.16
1	B	251	APK	O4'-C4'-C3'	-4.72	95.59	105.16
1	J	251	APK	O4'-C4'-C3'	-4.72	95.59	105.16
1	G	251	APK	O4'-C4'-C3'	-4.71	95.61	105.16
1	C	251	APK	O4'-C4'-C3'	-4.71	95.61	105.16
1	E	251	APK	O4'-C4'-C3'	-4.71	95.61	105.16
1	P	251	APK	O4'-C4'-C3'	-4.71	95.62	105.16
1	F	251	APK	O4'-C4'-C3'	-4.70	95.62	105.16
1	A	251	APK	O4'-C4'-C3'	-4.70	95.62	105.16
1	D	251	APK	O4'-C4'-C3'	-4.70	95.62	105.16
1	I	251	APK	O4'-C4'-C3'	-4.70	95.62	105.16
1	M	251	APK	O4'-C4'-C3'	-4.70	95.63	105.16
1	N	251	APK	O4'-C4'-C3'	-4.70	95.63	105.16
1	O	251	APK	O4'-C4'-C3'	-4.69	95.64	105.16
1	H	251	APK	O4'-C4'-C3'	-4.69	95.65	105.16
1	L	251	APK	O4'-C4'-C3'	-4.68	95.66	105.16
1	F	251	APK	O-C-CA	-2.21	119.81	125.72
1	M	251	APK	O-C-CA	-2.20	119.81	125.72
1	I	251	APK	O-C-CA	-2.20	119.81	125.72
1	G	251	APK	O-C-CA	-2.20	119.81	125.72
1	C	251	APK	O-C-CA	-2.20	119.83	125.72
1	H	251	APK	O-C-CA	-2.19	119.84	125.72
1	A	251	APK	O-C-CA	-2.19	119.85	125.72
1	P	251	APK	O-C-CA	-2.19	119.85	125.72
1	K	251	APK	O-C-CA	-2.19	119.85	125.72
1	D	251	APK	O-C-CA	-2.19	119.85	125.72
1	L	251	APK	O-C-CA	-2.19	119.86	125.72
1	B	251	APK	O-C-CA	-2.19	119.86	125.72
1	N	251	APK	O-C-CA	-2.18	119.86	125.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	251	APK	O-C-CA	-2.18	119.86	125.72
1	O	251	APK	O-C-CA	-2.18	119.87	125.72
1	E	251	APK	O-C-CA	-2.17	119.91	125.72
1	M	251	APK	C2'-C3'-C4'	4.72	112.30	102.64
1	H	251	APK	C2'-C3'-C4'	4.72	112.30	102.64
1	O	251	APK	C2'-C3'-C4'	4.73	112.31	102.64
1	I	251	APK	C2'-C3'-C4'	4.73	112.31	102.64
1	J	251	APK	C2'-C3'-C4'	4.74	112.33	102.64
1	N	251	APK	C2'-C3'-C4'	4.74	112.33	102.64
1	L	251	APK	C2'-C3'-C4'	4.74	112.33	102.64
1	B	251	APK	C2'-C3'-C4'	4.74	112.34	102.64
1	E	251	APK	C2'-C3'-C4'	4.74	112.34	102.64
1	C	251	APK	C2'-C3'-C4'	4.74	112.34	102.64
1	K	251	APK	C2'-C3'-C4'	4.74	112.34	102.64
1	A	251	APK	C2'-C3'-C4'	4.75	112.34	102.64
1	P	251	APK	C2'-C3'-C4'	4.75	112.35	102.64
1	F	251	APK	C2'-C3'-C4'	4.75	112.35	102.64
1	G	251	APK	C2'-C3'-C4'	4.75	112.35	102.64
1	D	251	APK	C2'-C3'-C4'	4.75	112.36	102.64
1	K	251	APK	C1'-N9-C4	12.84	141.13	126.81
1	C	251	APK	C1'-N9-C4	12.84	141.13	126.81
1	E	251	APK	C1'-N9-C4	12.86	141.15	126.81
1	F	251	APK	C1'-N9-C4	12.86	141.16	126.81
1	I	251	APK	C1'-N9-C4	12.88	141.17	126.81
1	H	251	APK	C1'-N9-C4	12.88	141.17	126.81
1	M	251	APK	C1'-N9-C4	12.89	141.19	126.81
1	N	251	APK	C1'-N9-C4	12.89	141.19	126.81
1	L	251	APK	C1'-N9-C4	12.90	141.20	126.81
1	O	251	APK	C1'-N9-C4	12.91	141.21	126.81
1	G	251	APK	C1'-N9-C4	12.91	141.21	126.81
1	B	251	APK	C1'-N9-C4	12.91	141.21	126.81
1	P	251	APK	C1'-N9-C4	12.92	141.22	126.81
1	D	251	APK	C1'-N9-C4	12.92	141.22	126.81
1	A	251	APK	C1'-N9-C4	12.92	141.23	126.81
1	J	251	APK	C1'-N9-C4	12.93	141.23	126.81

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

16 monomers are involved in 99 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	251	APK	6	0
1	B	251	APK	6	0
1	C	251	APK	7	0
1	D	251	APK	7	0
1	E	251	APK	6	0
1	F	251	APK	6	0
1	G	251	APK	6	0
1	H	251	APK	6	0
1	I	251	APK	6	0
1	J	251	APK	6	0
1	K	251	APK	7	0
1	L	251	APK	7	0
1	M	251	APK	6	0
1	N	251	APK	6	0
1	O	251	APK	5	0
1	P	251	APK	6	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

16 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	DTP	A	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.73	6 (23%)
2	DTP	B	1501	-	25,32,32	3.37	6 (24%)	26,50,50	2.72	6 (23%)
2	DTP	C	1501	-	25,32,32	3.37	6 (24%)	26,50,50	2.72	6 (23%)
2	DTP	D	1501	-	25,32,32	3.37	6 (24%)	26,50,50	2.73	6 (23%)
2	DTP	E	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.73	6 (23%)
2	DTP	F	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.72	6 (23%)
2	DTP	G	1501	-	25,32,32	3.37	6 (24%)	26,50,50	2.72	6 (23%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	DTP	H	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.73	6 (23%)
2	DTP	I	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.69	5 (19%)
2	DTP	J	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.70	5 (19%)
2	DTP	K	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.69	5 (19%)
2	DTP	L	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.70	5 (19%)
2	DTP	M	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.70	5 (19%)
2	DTP	N	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.69	5 (19%)
2	DTP	O	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.69	5 (19%)
2	DTP	P	1501	-	25,32,32	3.36	6 (24%)	26,50,50	2.70	5 (19%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	DTP	A	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	B	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	C	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	D	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	E	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	F	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	G	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	H	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	I	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	J	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	K	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	L	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	M	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	N	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	O	1501	-	-	0/18/34/34	0/3/3/3
2	DTP	P	1501	-	-	0/18/34/34	0/3/3/3

All (96) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1501	DTP	C2'-C3'	-12.07	1.20	1.52
2	D	1501	DTP	C2'-C3'	-12.07	1.20	1.52
2	M	1501	DTP	C2'-C3'	-12.07	1.20	1.52
2	G	1501	DTP	C2'-C3'	-12.06	1.20	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	1501	DTP	C2'-C3'	-12.06	1.20	1.52
2	B	1501	DTP	C2'-C3'	-12.06	1.20	1.52
2	I	1501	DTP	C2'-C3'	-12.06	1.20	1.52
2	O	1501	DTP	C2'-C3'	-12.06	1.20	1.52
2	A	1501	DTP	C2'-C3'	-12.05	1.20	1.52
2	L	1501	DTP	C2'-C3'	-12.05	1.20	1.52
2	H	1501	DTP	C2'-C3'	-12.05	1.20	1.52
2	J	1501	DTP	C2'-C3'	-12.05	1.20	1.52
2	K	1501	DTP	C2'-C3'	-12.04	1.20	1.52
2	N	1501	DTP	C2'-C3'	-12.04	1.20	1.52
2	E	1501	DTP	C2'-C3'	-12.04	1.20	1.52
2	P	1501	DTP	C2'-C3'	-12.03	1.20	1.52
2	P	1501	DTP	O4'-C4'	-8.59	1.25	1.45
2	C	1501	DTP	O4'-C4'	-8.58	1.25	1.45
2	E	1501	DTP	O4'-C4'	-8.58	1.25	1.45
2	B	1501	DTP	O4'-C4'	-8.58	1.25	1.45
2	D	1501	DTP	O4'-C4'	-8.58	1.25	1.45
2	H	1501	DTP	O4'-C4'	-8.57	1.25	1.45
2	K	1501	DTP	O4'-C4'	-8.56	1.25	1.45
2	J	1501	DTP	O4'-C4'	-8.56	1.25	1.45
2	A	1501	DTP	O4'-C4'	-8.56	1.25	1.45
2	G	1501	DTP	O4'-C4'	-8.56	1.25	1.45
2	N	1501	DTP	O4'-C4'	-8.55	1.25	1.45
2	M	1501	DTP	O4'-C4'	-8.55	1.25	1.45
2	I	1501	DTP	O4'-C4'	-8.55	1.25	1.45
2	F	1501	DTP	O4'-C4'	-8.55	1.25	1.45
2	L	1501	DTP	O4'-C4'	-8.55	1.25	1.45
2	O	1501	DTP	O4'-C4'	-8.53	1.25	1.45
2	B	1501	DTP	C5-C4	-3.61	1.32	1.40
2	G	1501	DTP	C5-C4	-3.60	1.32	1.40
2	M	1501	DTP	C5-C4	-3.59	1.32	1.40
2	H	1501	DTP	C5-C4	-3.59	1.32	1.40
2	F	1501	DTP	C5-C4	-3.59	1.32	1.40
2	D	1501	DTP	C5-C4	-3.59	1.32	1.40
2	N	1501	DTP	C5-C4	-3.59	1.32	1.40
2	C	1501	DTP	C5-C4	-3.57	1.32	1.40
2	A	1501	DTP	C5-C4	-3.57	1.32	1.40
2	K	1501	DTP	C5-C4	-3.57	1.32	1.40
2	P	1501	DTP	C5-C4	-3.56	1.32	1.40
2	E	1501	DTP	C5-C4	-3.56	1.32	1.40
2	L	1501	DTP	C5-C4	-3.55	1.32	1.40
2	J	1501	DTP	C5-C4	-3.55	1.32	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	I	1501	DTP	C5-C4	-3.55	1.32	1.40
2	O	1501	DTP	C5-C4	-3.55	1.32	1.40
2	K	1501	DTP	O3'-C3'	2.26	1.48	1.43
2	O	1501	DTP	O3'-C3'	2.28	1.48	1.43
2	N	1501	DTP	O3'-C3'	2.28	1.48	1.43
2	B	1501	DTP	O3'-C3'	2.29	1.48	1.43
2	P	1501	DTP	O3'-C3'	2.29	1.48	1.43
2	C	1501	DTP	O3'-C3'	2.30	1.48	1.43
2	A	1501	DTP	O3'-C3'	2.30	1.48	1.43
2	F	1501	DTP	O3'-C3'	2.30	1.48	1.43
2	D	1501	DTP	O3'-C3'	2.30	1.48	1.43
2	J	1501	DTP	O3'-C3'	2.30	1.48	1.43
2	G	1501	DTP	O3'-C3'	2.30	1.48	1.43
2	E	1501	DTP	O3'-C3'	2.31	1.48	1.43
2	M	1501	DTP	O3'-C3'	2.31	1.48	1.43
2	H	1501	DTP	O3'-C3'	2.31	1.48	1.43
2	I	1501	DTP	O3'-C3'	2.32	1.48	1.43
2	L	1501	DTP	O3'-C3'	2.33	1.48	1.43
2	N	1501	DTP	O4'-C1'	3.16	1.49	1.42
2	H	1501	DTP	O4'-C1'	3.16	1.49	1.42
2	F	1501	DTP	O4'-C1'	3.17	1.49	1.42
2	D	1501	DTP	O4'-C1'	3.18	1.49	1.42
2	L	1501	DTP	O4'-C1'	3.18	1.49	1.42
2	O	1501	DTP	O4'-C1'	3.18	1.49	1.42
2	K	1501	DTP	O4'-C1'	3.18	1.49	1.42
2	J	1501	DTP	O4'-C1'	3.18	1.49	1.42
2	M	1501	DTP	O4'-C1'	3.18	1.49	1.42
2	A	1501	DTP	O4'-C1'	3.18	1.49	1.42
2	B	1501	DTP	O4'-C1'	3.19	1.49	1.42
2	C	1501	DTP	O4'-C1'	3.19	1.49	1.42
2	P	1501	DTP	O4'-C1'	3.20	1.49	1.42
2	G	1501	DTP	O4'-C1'	3.20	1.49	1.42
2	E	1501	DTP	O4'-C1'	3.21	1.49	1.42
2	I	1501	DTP	O4'-C1'	3.22	1.49	1.42
2	N	1501	DTP	C3'-C4'	3.60	1.63	1.53
2	I	1501	DTP	C3'-C4'	3.61	1.63	1.53
2	K	1501	DTP	C3'-C4'	3.62	1.63	1.53
2	J	1501	DTP	C3'-C4'	3.62	1.63	1.53
2	L	1501	DTP	C3'-C4'	3.62	1.63	1.53
2	P	1501	DTP	C3'-C4'	3.63	1.63	1.53
2	A	1501	DTP	C3'-C4'	3.63	1.63	1.53
2	C	1501	DTP	C3'-C4'	3.63	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1501	DTP	C3'-C4'	3.63	1.63	1.53
2	E	1501	DTP	C3'-C4'	3.63	1.63	1.53
2	M	1501	DTP	C3'-C4'	3.64	1.63	1.53
2	D	1501	DTP	C3'-C4'	3.64	1.63	1.53
2	G	1501	DTP	C3'-C4'	3.64	1.63	1.53
2	F	1501	DTP	C3'-C4'	3.64	1.63	1.53
2	O	1501	DTP	C3'-C4'	3.64	1.63	1.53
2	H	1501	DTP	C3'-C4'	3.64	1.63	1.53

All (88) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	P	1501	DTP	N3-C2-N1	-9.94	121.06	128.87
2	L	1501	DTP	N3-C2-N1	-9.93	121.07	128.87
2	H	1501	DTP	N3-C2-N1	-9.92	121.08	128.87
2	M	1501	DTP	N3-C2-N1	-9.92	121.08	128.87
2	E	1501	DTP	N3-C2-N1	-9.92	121.08	128.87
2	D	1501	DTP	N3-C2-N1	-9.90	121.09	128.87
2	K	1501	DTP	N3-C2-N1	-9.89	121.10	128.87
2	N	1501	DTP	N3-C2-N1	-9.89	121.11	128.87
2	A	1501	DTP	N3-C2-N1	-9.89	121.11	128.87
2	J	1501	DTP	N3-C2-N1	-9.89	121.11	128.87
2	I	1501	DTP	N3-C2-N1	-9.88	121.11	128.87
2	F	1501	DTP	N3-C2-N1	-9.86	121.12	128.87
2	G	1501	DTP	N3-C2-N1	-9.86	121.13	128.87
2	O	1501	DTP	N3-C2-N1	-9.85	121.14	128.87
2	C	1501	DTP	N3-C2-N1	-9.84	121.14	128.87
2	B	1501	DTP	N3-C2-N1	-9.83	121.15	128.87
2	O	1501	DTP	N6-C6-N1	-7.13	106.55	118.52
2	C	1501	DTP	N6-C6-N1	-7.12	106.56	118.52
2	J	1501	DTP	N6-C6-N1	-7.12	106.57	118.52
2	G	1501	DTP	N6-C6-N1	-7.12	106.58	118.52
2	B	1501	DTP	N6-C6-N1	-7.12	106.58	118.52
2	M	1501	DTP	N6-C6-N1	-7.11	106.58	118.52
2	H	1501	DTP	N6-C6-N1	-7.11	106.58	118.52
2	A	1501	DTP	N6-C6-N1	-7.11	106.58	118.52
2	L	1501	DTP	N6-C6-N1	-7.11	106.58	118.52
2	N	1501	DTP	N6-C6-N1	-7.11	106.58	118.52
2	I	1501	DTP	N6-C6-N1	-7.10	106.59	118.52
2	D	1501	DTP	N6-C6-N1	-7.10	106.59	118.52
2	E	1501	DTP	N6-C6-N1	-7.10	106.61	118.52
2	P	1501	DTP	N6-C6-N1	-7.09	106.61	118.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	1501	DTP	N6-C6-N1	-7.09	106.62	118.52
2	K	1501	DTP	N6-C6-N1	-7.09	106.62	118.52
2	N	1501	DTP	C2'-C1'-N9	-3.92	104.47	114.14
2	O	1501	DTP	C2'-C1'-N9	-3.92	104.48	114.14
2	K	1501	DTP	C2'-C1'-N9	-3.91	104.49	114.14
2	I	1501	DTP	C2'-C1'-N9	-3.91	104.50	114.14
2	F	1501	DTP	C2'-C1'-N9	-3.91	104.50	114.14
2	L	1501	DTP	C2'-C1'-N9	-3.91	104.50	114.14
2	G	1501	DTP	C2'-C1'-N9	-3.91	104.50	114.14
2	M	1501	DTP	C2'-C1'-N9	-3.91	104.50	114.14
2	H	1501	DTP	C2'-C1'-N9	-3.91	104.50	114.14
2	J	1501	DTP	C2'-C1'-N9	-3.90	104.51	114.14
2	A	1501	DTP	C2'-C1'-N9	-3.90	104.51	114.14
2	B	1501	DTP	C2'-C1'-N9	-3.90	104.52	114.14
2	E	1501	DTP	C2'-C1'-N9	-3.90	104.52	114.14
2	D	1501	DTP	C2'-C1'-N9	-3.89	104.53	114.14
2	P	1501	DTP	C2'-C1'-N9	-3.89	104.54	114.14
2	C	1501	DTP	C2'-C1'-N9	-3.89	104.55	114.14
2	C	1501	DTP	C4'-O4'-C1'	-3.23	101.14	109.42
2	B	1501	DTP	C4'-O4'-C1'	-3.23	101.14	109.42
2	F	1501	DTP	C4'-O4'-C1'	-3.23	101.15	109.42
2	E	1501	DTP	C4'-O4'-C1'	-3.22	101.16	109.42
2	O	1501	DTP	C4'-O4'-C1'	-3.22	101.16	109.42
2	I	1501	DTP	C4'-O4'-C1'	-3.22	101.17	109.42
2	A	1501	DTP	C4'-O4'-C1'	-3.22	101.17	109.42
2	P	1501	DTP	C4'-O4'-C1'	-3.22	101.18	109.42
2	M	1501	DTP	C4'-O4'-C1'	-3.21	101.19	109.42
2	K	1501	DTP	C4'-O4'-C1'	-3.21	101.19	109.42
2	L	1501	DTP	C4'-O4'-C1'	-3.21	101.19	109.42
2	G	1501	DTP	C4'-O4'-C1'	-3.21	101.20	109.42
2	D	1501	DTP	C4'-O4'-C1'	-3.21	101.20	109.42
2	H	1501	DTP	C4'-O4'-C1'	-3.21	101.20	109.42
2	J	1501	DTP	C4'-O4'-C1'	-3.21	101.20	109.42
2	N	1501	DTP	C4'-O4'-C1'	-3.20	101.23	109.42
2	M	1501	DTP	C1'-N9-C4	-2.11	123.99	127.07
2	E	1501	DTP	C1'-N9-C4	-2.11	123.99	127.07
2	D	1501	DTP	C1'-N9-C4	-2.10	124.00	127.07
2	I	1501	DTP	C1'-N9-C4	-2.10	124.00	127.07
2	C	1501	DTP	C1'-N9-C4	-2.10	124.00	127.07
2	P	1501	DTP	C1'-N9-C4	-2.10	124.01	127.07
2	O	1501	DTP	C1'-N9-C4	-2.09	124.01	127.07
2	L	1501	DTP	C1'-N9-C4	-2.09	124.02	127.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1501	DTP	C1'-N9-C4	-2.09	124.02	127.07
2	H	1501	DTP	C1'-N9-C4	-2.08	124.03	127.07
2	J	1501	DTP	C1'-N9-C4	-2.08	124.03	127.07
2	K	1501	DTP	C1'-N9-C4	-2.08	124.03	127.07
2	N	1501	DTP	C1'-N9-C4	-2.06	124.06	127.07
2	B	1501	DTP	C1'-N9-C4	-2.06	124.06	127.07
2	F	1501	DTP	C1'-N9-C4	-2.05	124.08	127.07
2	G	1501	DTP	C1'-N9-C4	-2.04	124.08	127.07
2	G	1501	DTP	O2B-PB-O3B	2.48	115.89	105.27
2	A	1501	DTP	O2B-PB-O3B	2.49	115.94	105.27
2	B	1501	DTP	O2B-PB-O3B	2.49	115.95	105.27
2	F	1501	DTP	O2B-PB-O3B	2.49	115.95	105.27
2	E	1501	DTP	O2B-PB-O3B	2.49	115.96	105.27
2	D	1501	DTP	O2B-PB-O3B	2.50	115.96	105.27
2	H	1501	DTP	O2B-PB-O3B	2.50	115.96	105.27
2	C	1501	DTP	O2B-PB-O3B	2.50	115.98	105.27

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

16 monomers are involved in 97 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1501	DTP	6	0
2	B	1501	DTP	7	0
2	C	1501	DTP	6	0
2	D	1501	DTP	6	0
2	E	1501	DTP	6	0
2	F	1501	DTP	6	0
2	G	1501	DTP	6	0
2	H	1501	DTP	6	0
2	I	1501	DTP	6	0
2	J	1501	DTP	6	0
2	K	1501	DTP	6	0
2	L	1501	DTP	6	0
2	M	1501	DTP	6	0
2	N	1501	DTP	6	0
2	O	1501	DTP	6	0
2	P	1501	DTP	6	0

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.