



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 11:37 AM UTC

PDB ID : 6LGN / pdb_00006lgn
EMDB ID : EMD-0881
Title : The atomic structure of varicella zoster virus C-capsid
Authors : Li, S.; Zheng, Q.
Deposited on : 2019-12-05
Resolution : 5.30 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

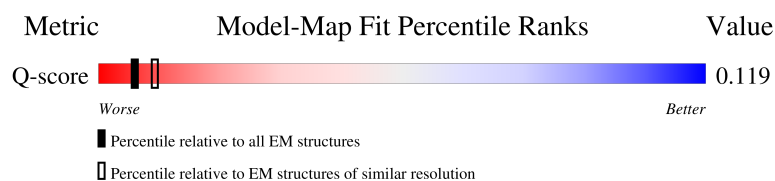
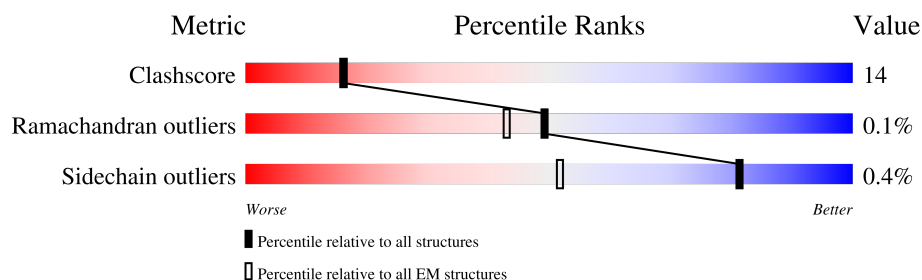
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 5.30 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	625 (4.80 - 5.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1396	15% 70% 27% .
1	B	1396	12% 64% 33% .
1	C	1396	13% 67% 30% .
1	E	1396	15% 66% 30% .

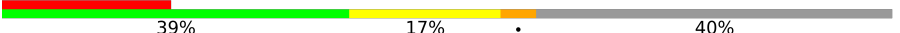
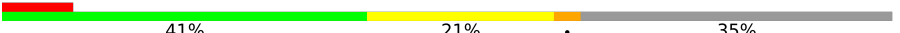
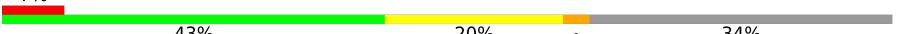
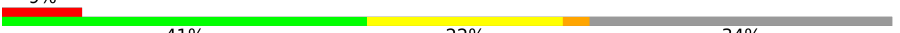
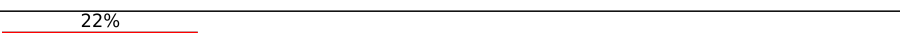
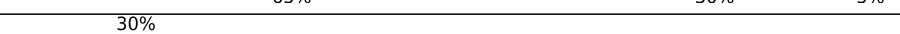
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Mol	Chain	Length	Quality of chain
1	F	1396	
1	G	1396	
1	M	1396	
1	N	1396	
1	O	1396	
1	P	1396	
1	Q	1396	
1	R	1396	
1	S	1396	
1	T	1396	
1	U	1396	
1	z	1396	
2	D	235	
2	H	235	
2	I	235	
2	J	235	
2	K	235	
2	L	235	
2	V	235	
2	W	235	
2	X	235	
2	Y	235	
2	Z	235	
2	a	235	
2	b	235	

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Mol	Chain	Length	Quality of chain
2	c	235	
2	d	235	
3	e	483	
3	f	483	
3	g	483	
3	h	483	
3	i	483	
4	j	316	
4	k	316	
4	l	316	
4	m	316	
4	n	316	
4	o	316	
4	p	316	
4	q	316	
4	r	316	
4	s	316	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 207987 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 Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1354	Total	C	N	O	S	0	0
			10592	6695	1880	1949	68		
1	M	1353	Total	C	N	O	S	0	0
			10582	6690	1876	1948	68		
1	N	1353	Total	C	N	O	S	0	0
			10582	6690	1876	1948	68		
1	O	1355	Total	C	N	O	S	0	0
			10600	6701	1881	1950	68		
1	P	1355	Total	C	N	O	S	0	0
			10600	6701	1881	1950	68		
1	Q	1354	Total	C	N	O	S	0	0
			10592	6695	1880	1949	68		
1	R	1353	Total	C	N	O	S	0	0
			10582	6690	1876	1948	68		
1	S	1355	Total	C	N	O	S	0	0
			10600	6701	1881	1950	68		
1	T	1354	Total	C	N	O	S	0	0
			10592	6695	1880	1949	68		
1	U	1331	Total	C	N	O	S	0	0
			10422	6590	1847	1919	66		
1	B	1355	Total	C	N	O	S	0	0
			10600	6701	1881	1950	68		
1	C	1354	Total	C	N	O	S	0	0
			10592	6695	1880	1949	68		
1	E	1353	Total	C	N	O	S	0	0
			10582	6689	1877	1948	68		
1	F	1354	Total	C	N	O	S	0	0
			10592	6695	1880	1949	68		
1	G	1295	Total	C	N	O	S	0	0
			10133	6401	1804	1863	65		
1	z	607	Total	C	N	O	S	0	0
			4709	2970	830	878	31		

- Molecule 2 is a protein called Small capsomere-interacting protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	D	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	V	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	W	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	X	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	Y	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	Z	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	a	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	b	99	Total	C	N	O	S	0	0
			754	475	142	135	2		
2	c	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	d	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	H	99	Total	C	N	O	S	0	0
			754	475	142	135	2		
2	I	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	J	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	K	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	L	100	Total	C	N	O	S	0	0
			765	481	146	136	2		

- Molecule 3 is a protein called Triplex capsid protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	e	289	Total	C	N	O	S	0	0
			2294	1451	411	417	15		
3	f	316	Total	C	N	O	S	0	0
			2492	1574	448	455	15		
3	g	317	Total	C	N	O	S	0	0
			2497	1576	448	458	15		
3	h	317	Total	C	N	O	S	0	0
			2496	1575	448	458	15		
3	i	316	Total	C	N	O	S	0	0
			2490	1572	447	456	15		

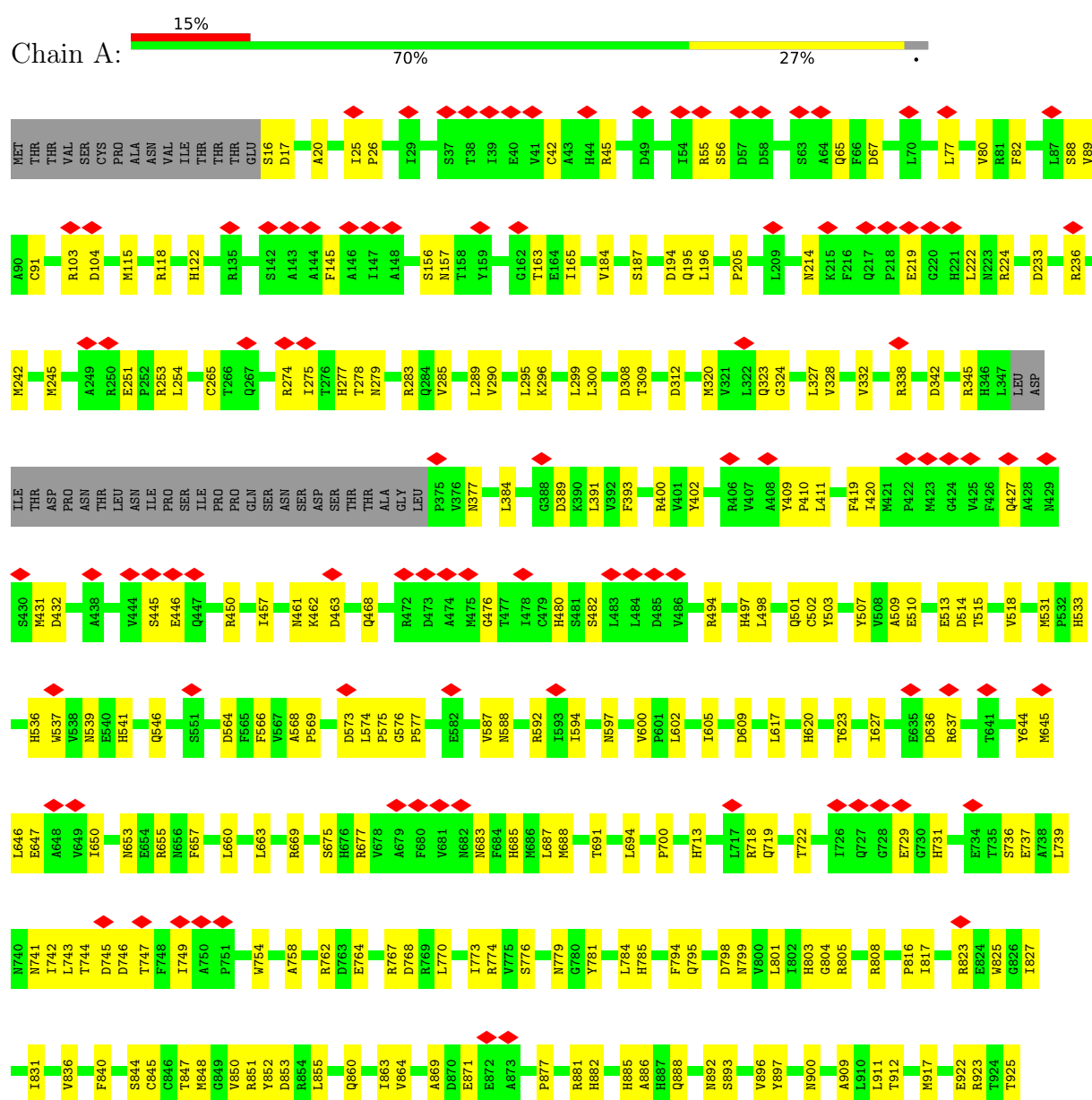
- Molecule 4 is a protein called Triplex capsid protein 2.

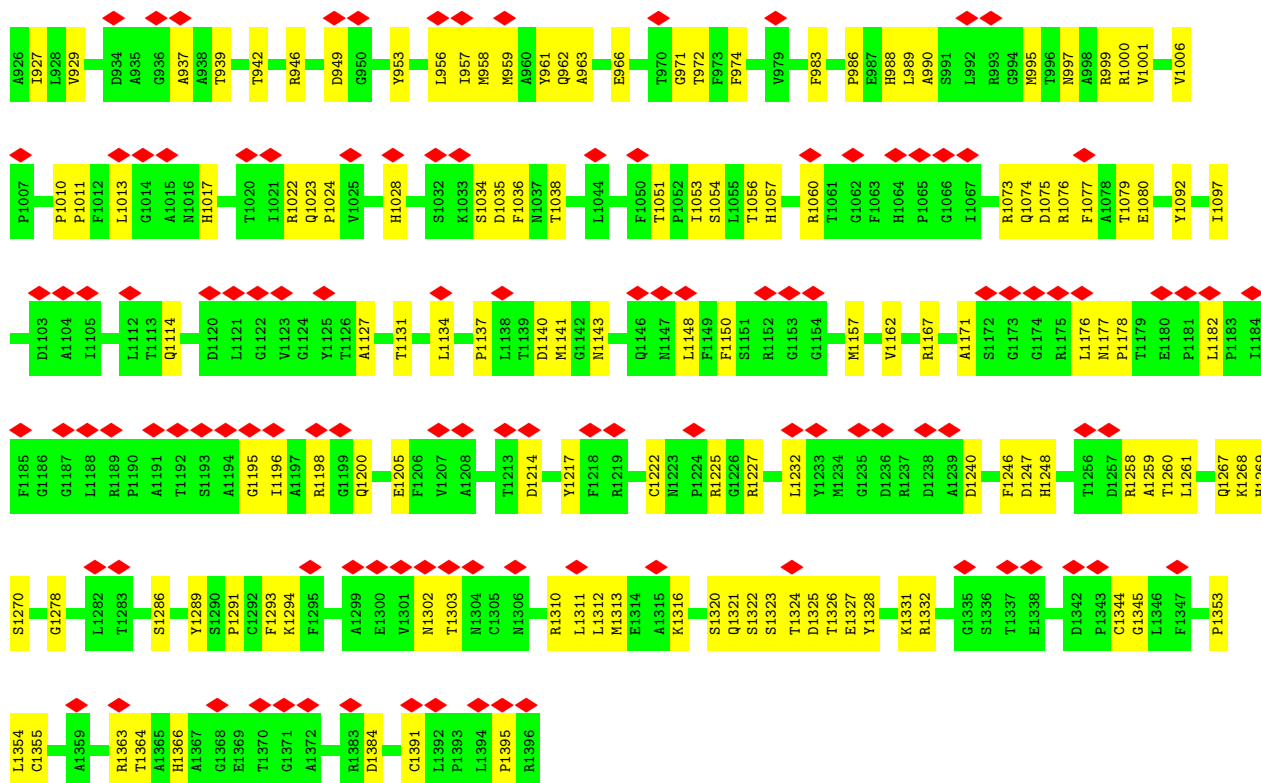
Mol	Chain	Residues	Atoms					AltConf	Trace
4	j	241	Total	C	N	O	S	0	0
			1837	1180	310	337	10		
4	o	258	Total	C	N	O	S	0	0
			1969	1259	334	366	10		
4	k	275	Total	C	N	O	S	0	0
			2090	1336	355	389	10		
4	p	304	Total	C	N	O	S	0	0
			2325	1480	403	429	13		
4	l	263	Total	C	N	O	S	0	0
			2010	1286	342	372	10		
4	q	301	Total	C	N	O	S	0	0
			2307	1469	400	426	12		
4	m	267	Total	C	N	O	S	0	0
			2028	1296	346	376	10		
4	r	315	Total	C	N	O	S	0	0
			2407	1532	420	443	12		
4	n	265	Total	C	N	O	S	0	0
			2019	1291	344	374	10		
4	s	304	Total	C	N	O	S	0	0
			2321	1477	403	429	12		

3 Residue-property plots

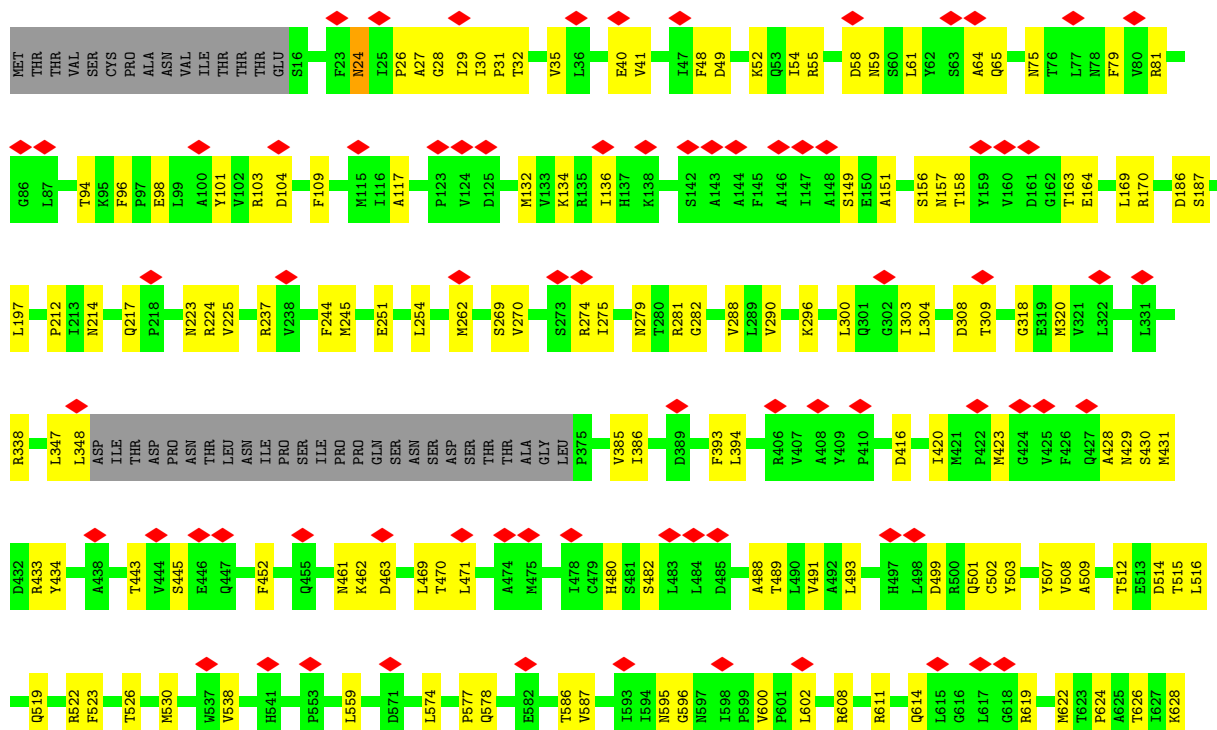
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

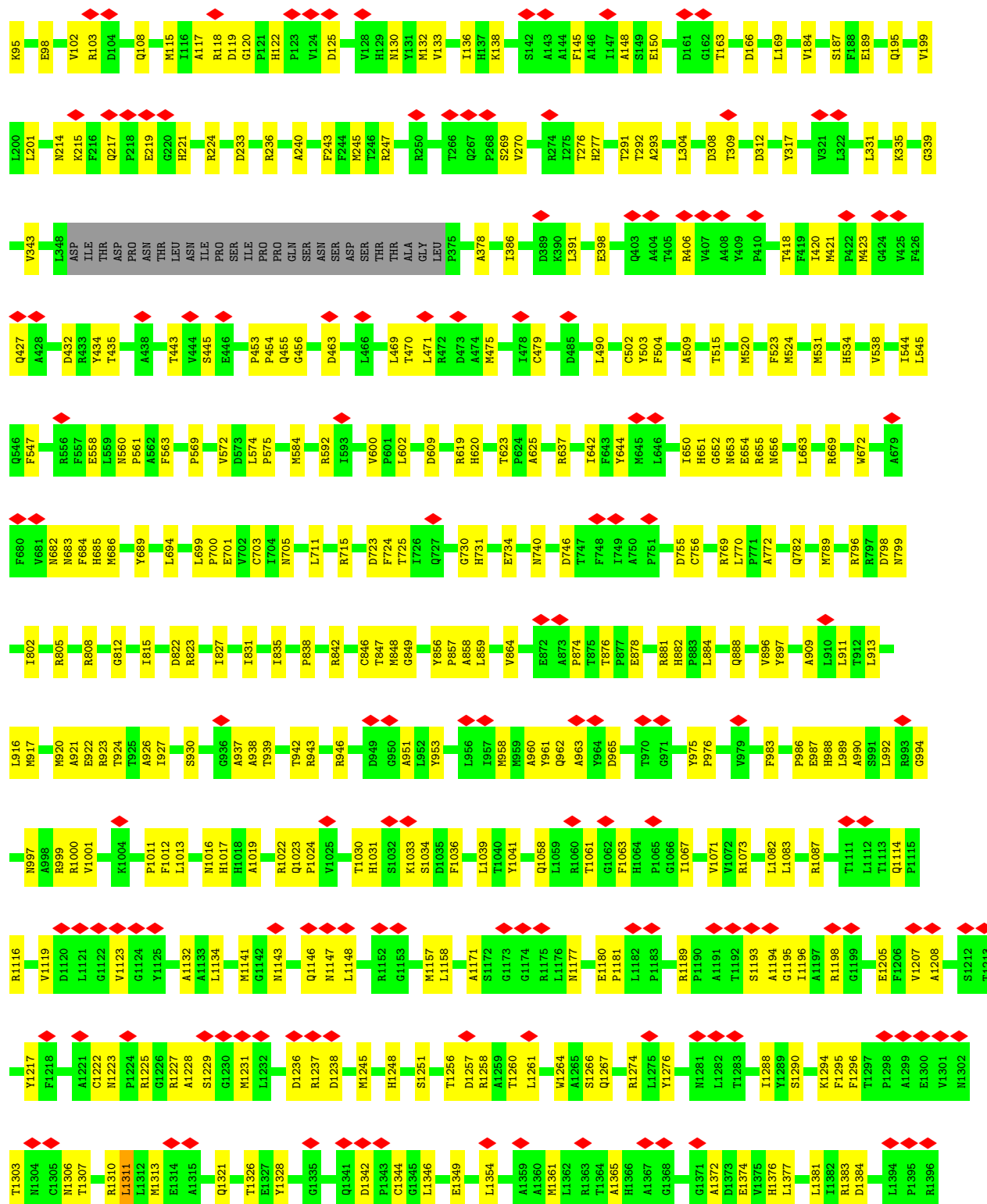
• Molecule 1: Major capsid protein





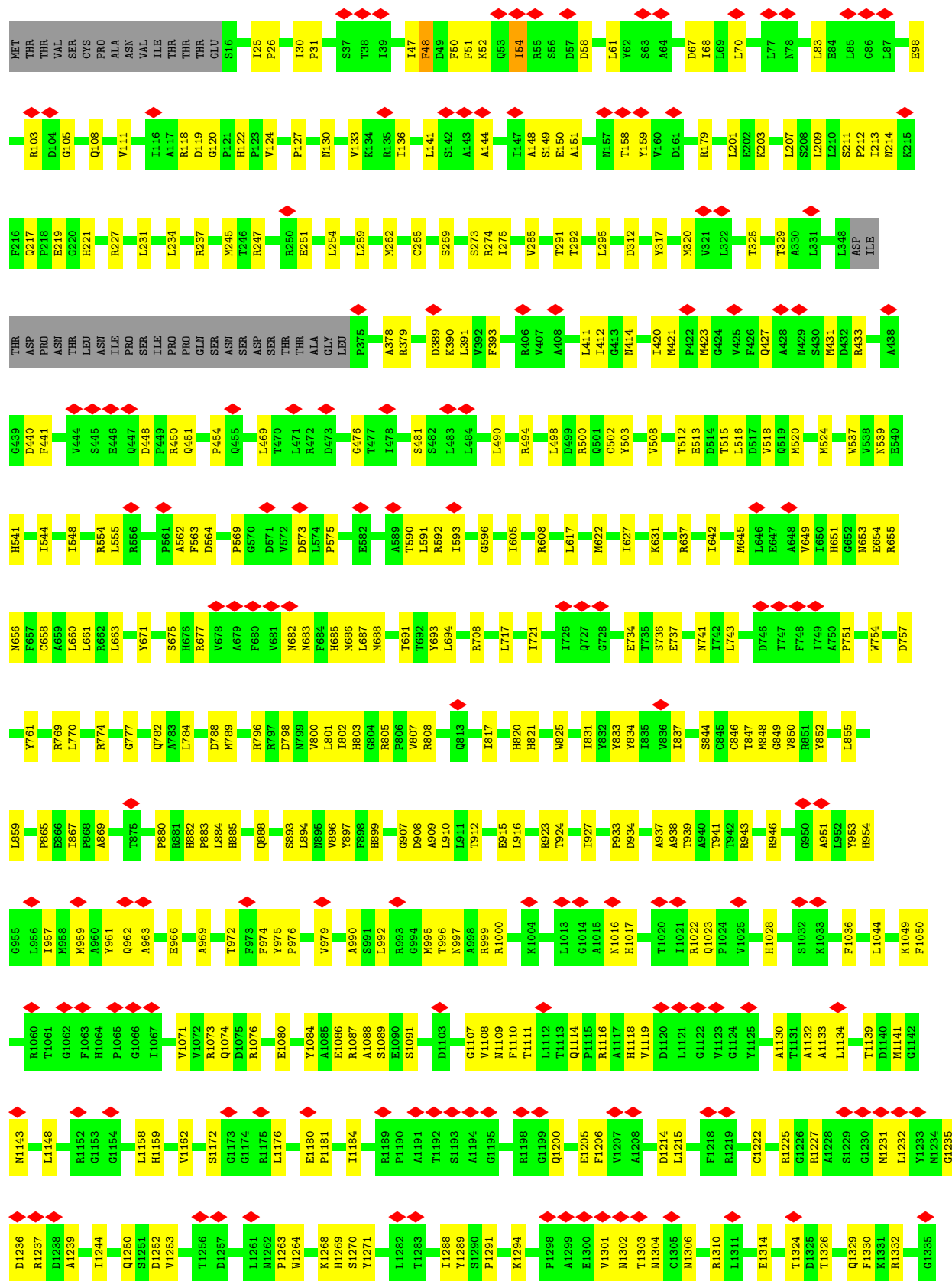
• Molecule 1: Major capsid protein





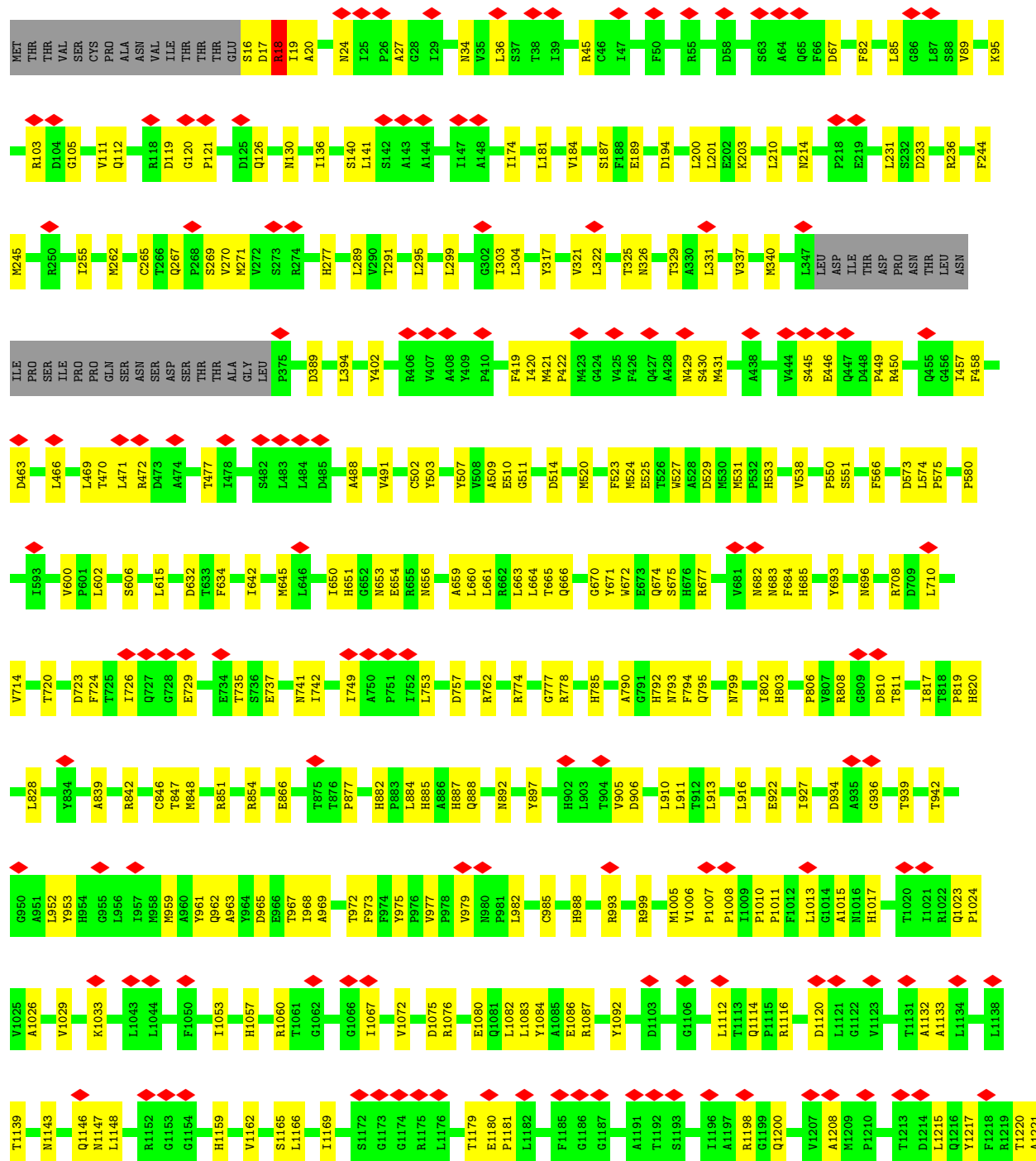
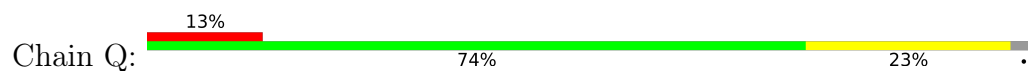
• Molecule 1: Major capsid protein

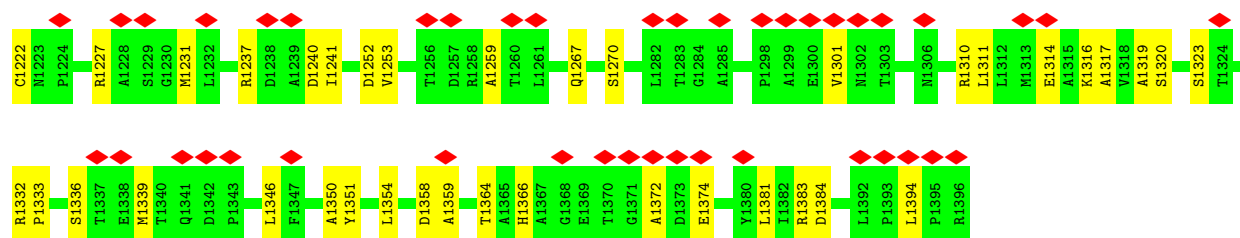




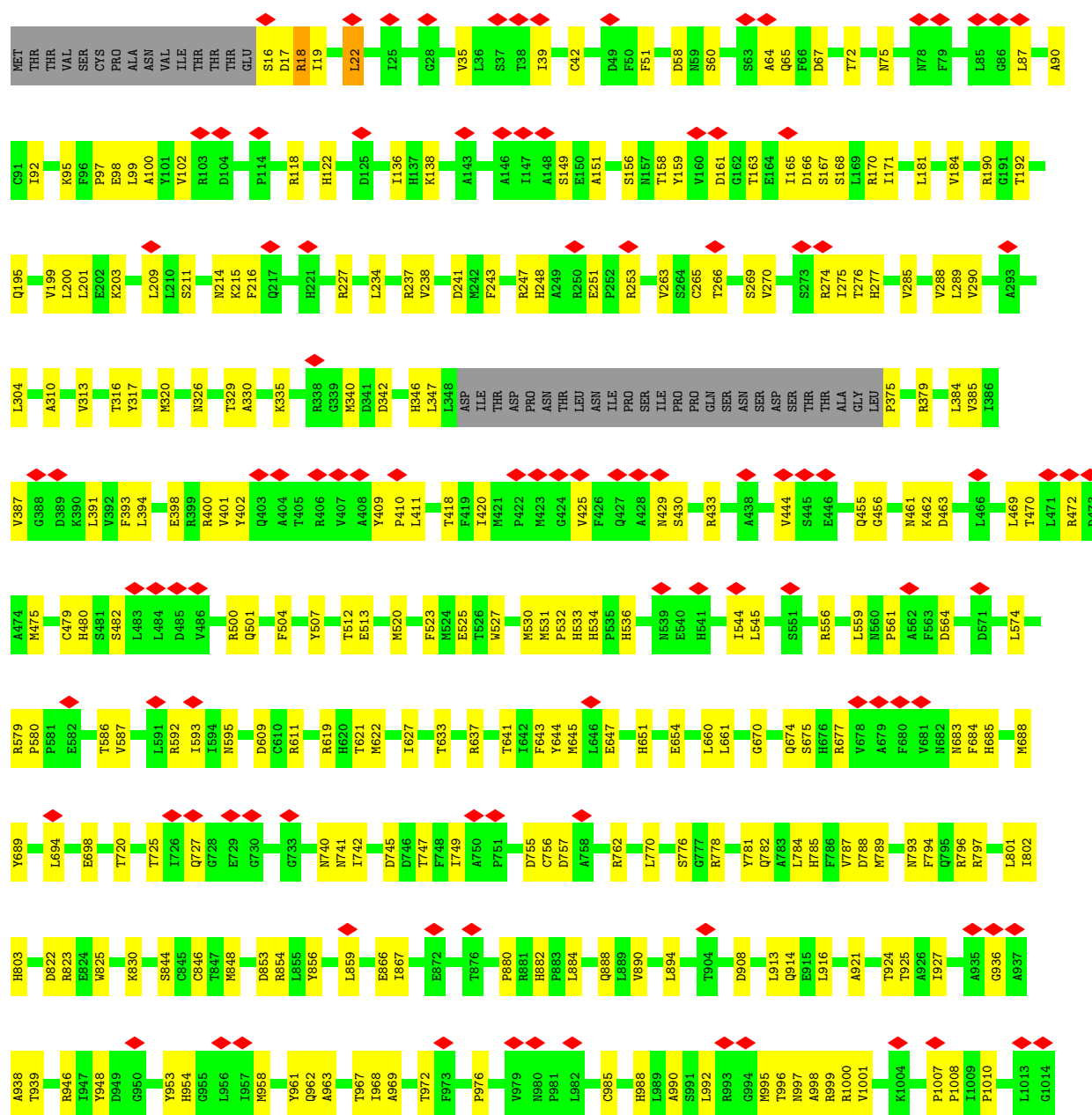


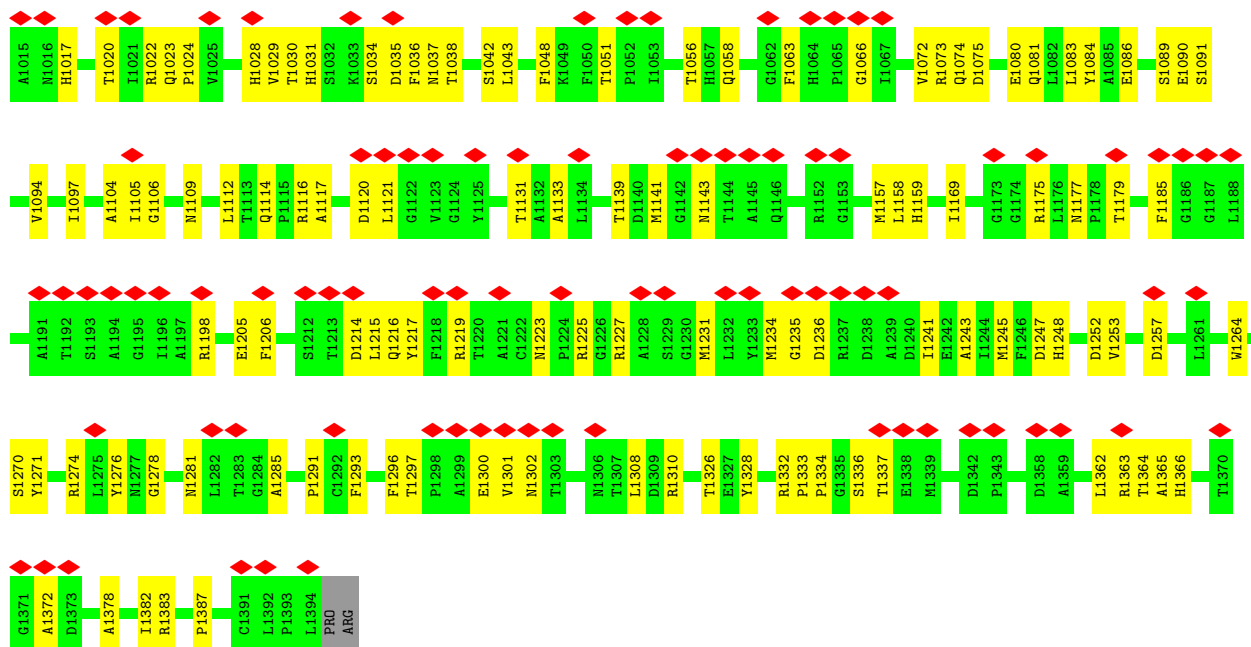
• Molecule 1: Major capsid protein



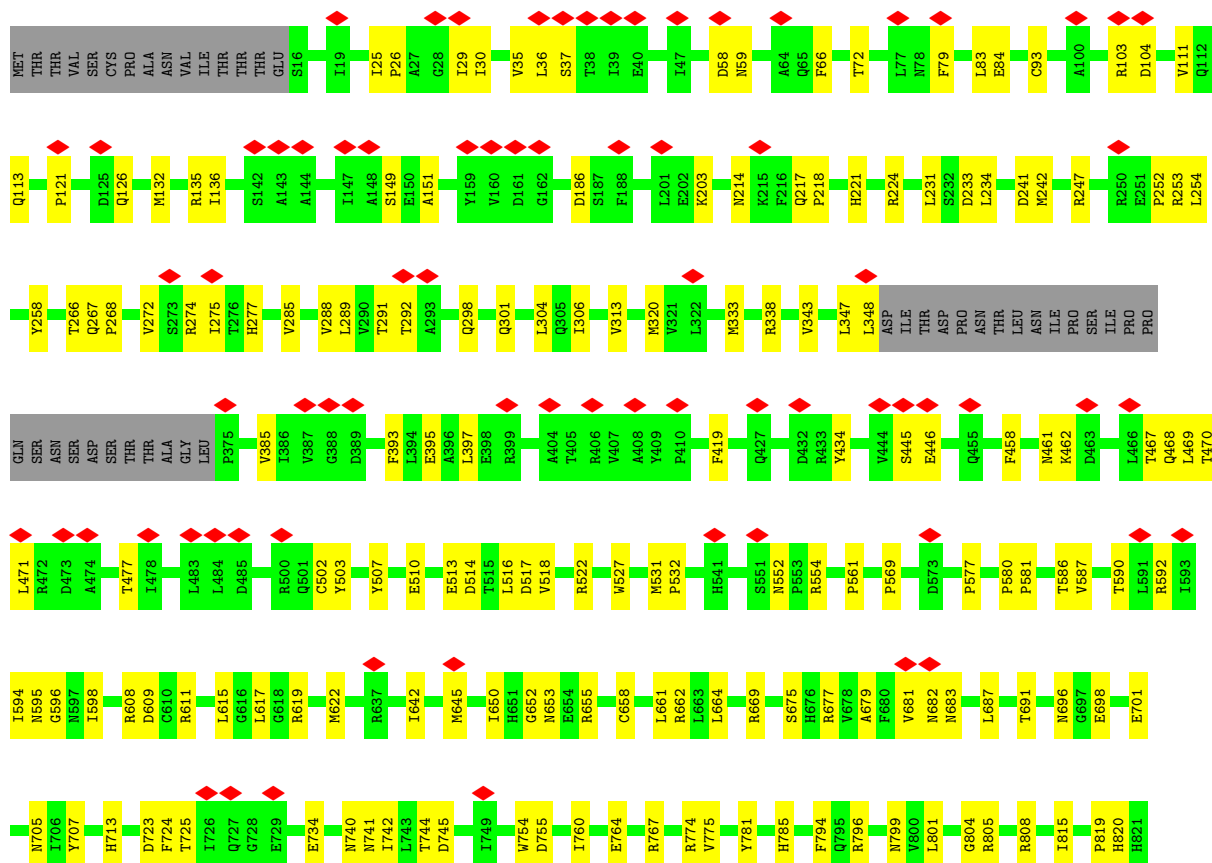


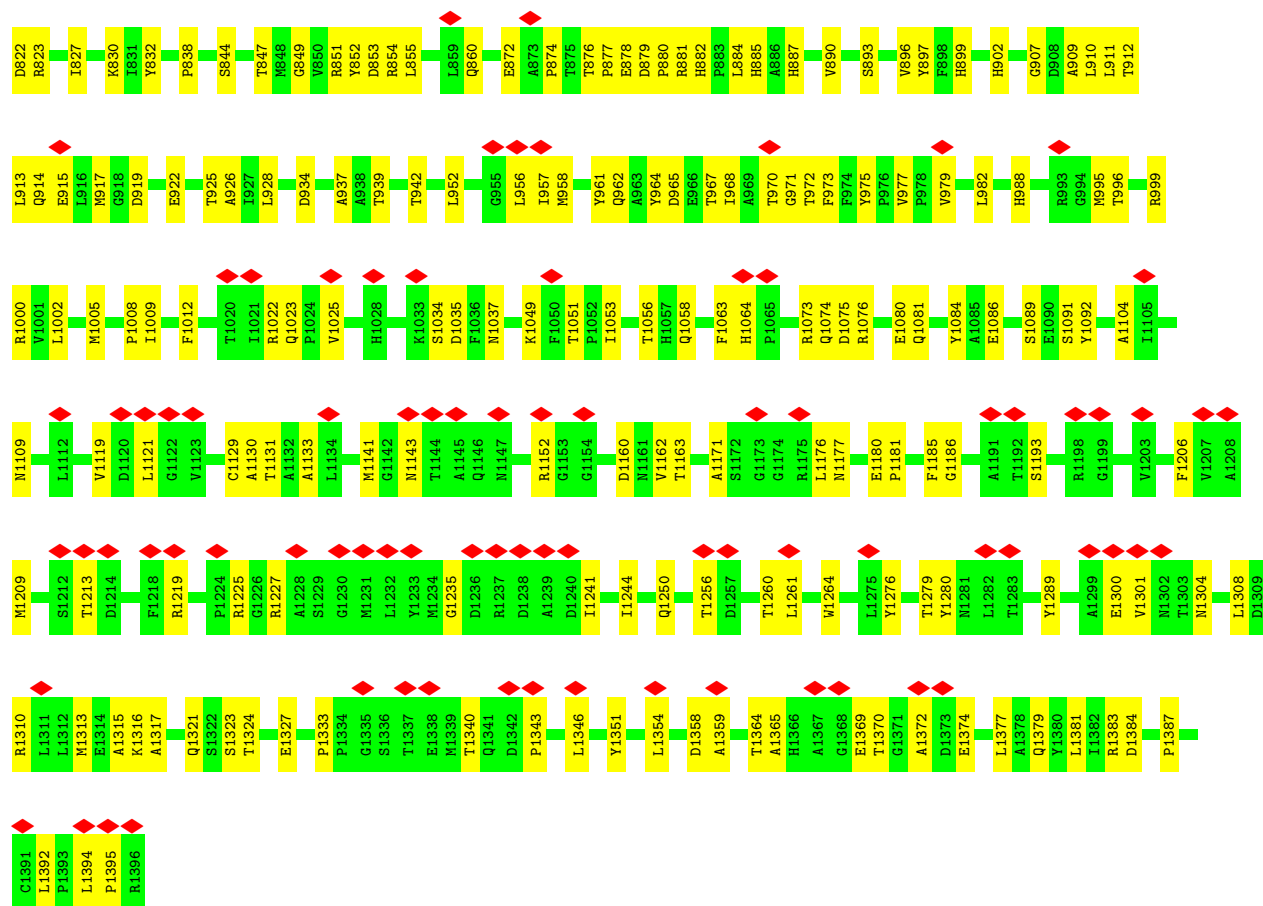
• Molecule 1: Major capsid protein



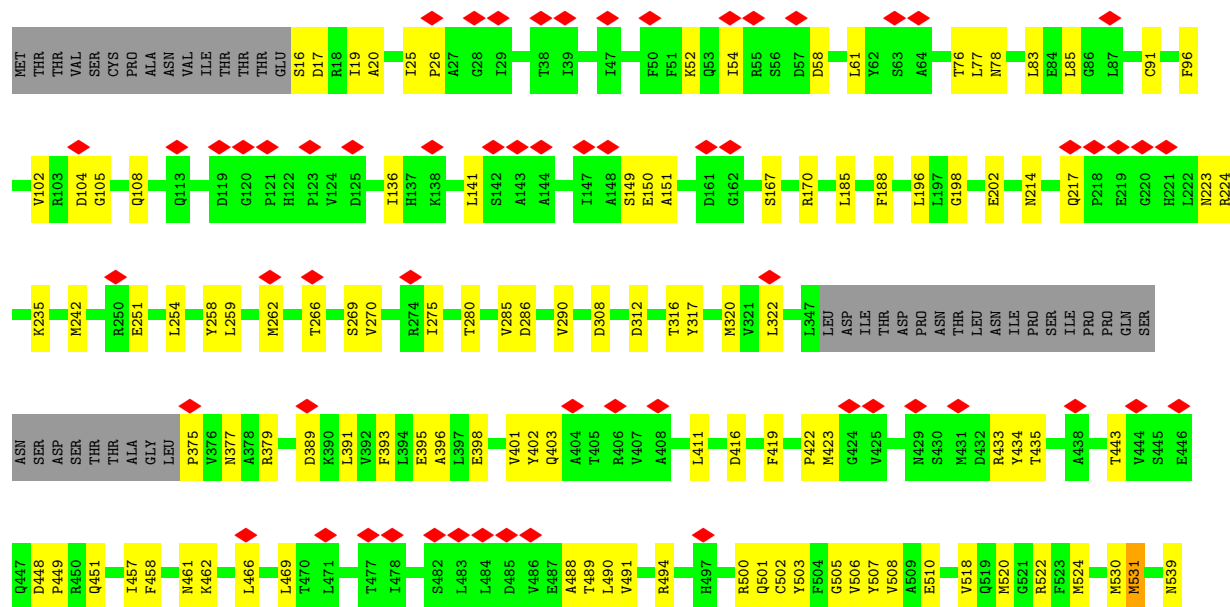


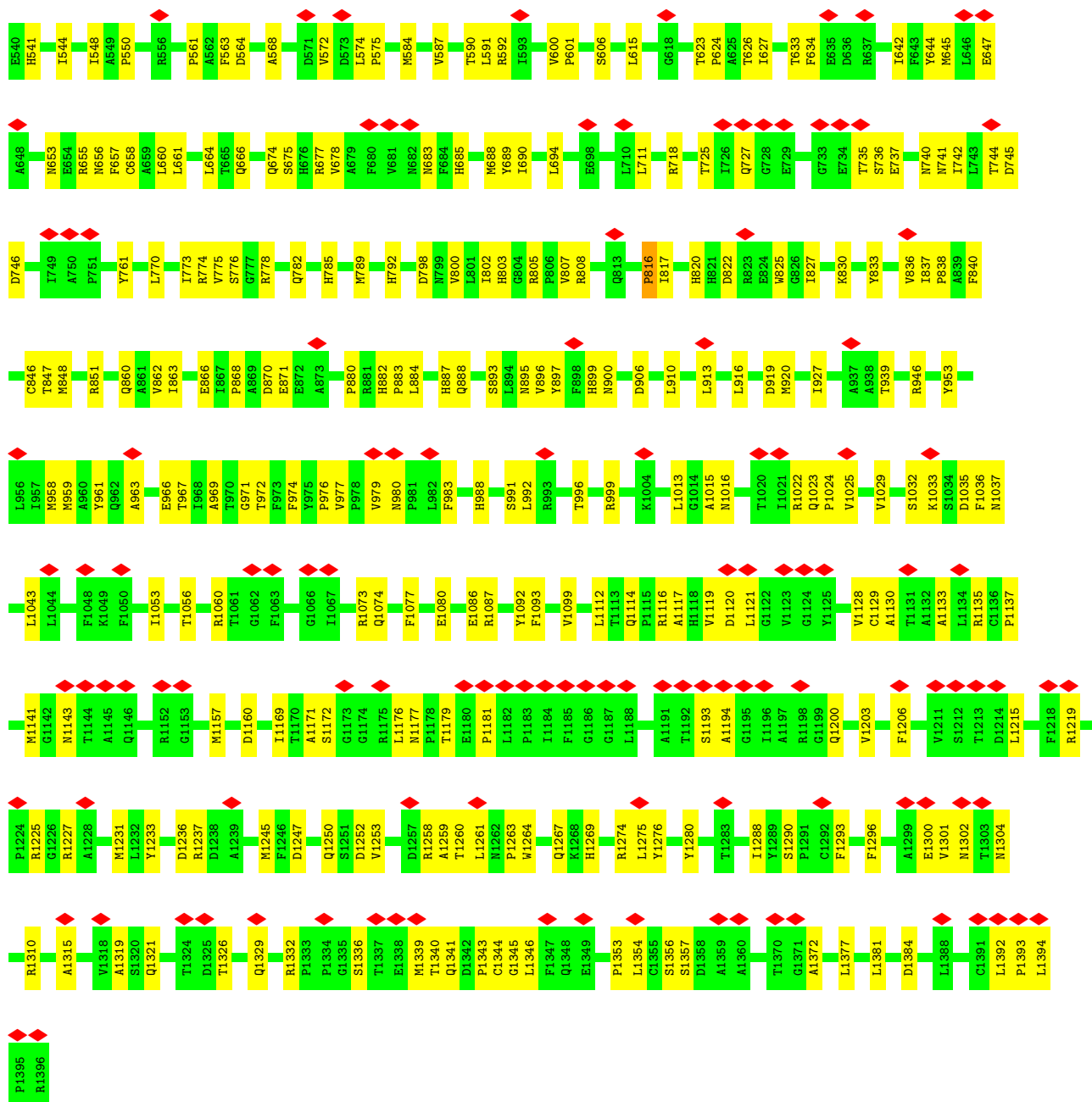
• Molecule 1: Major capsid protein



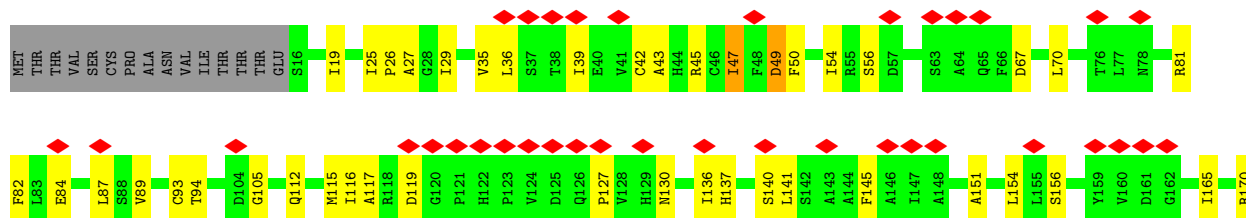


• Molecule 1: Major capsid protein

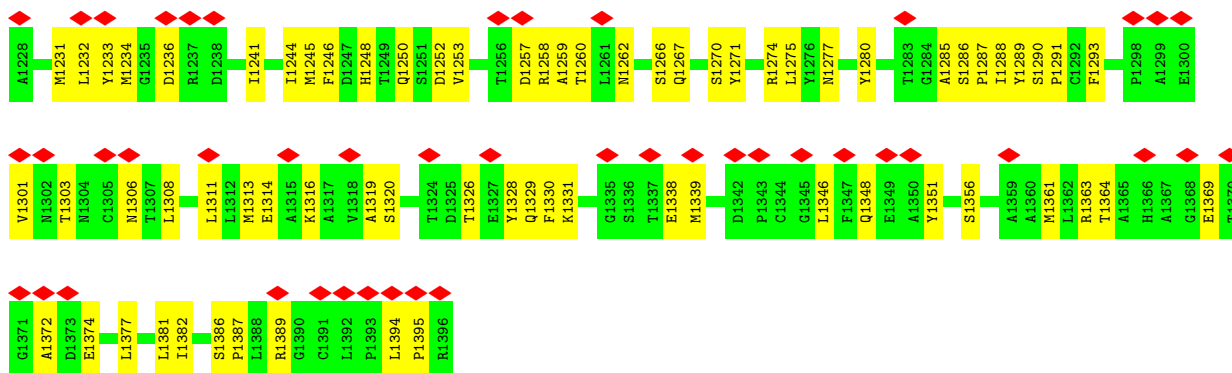




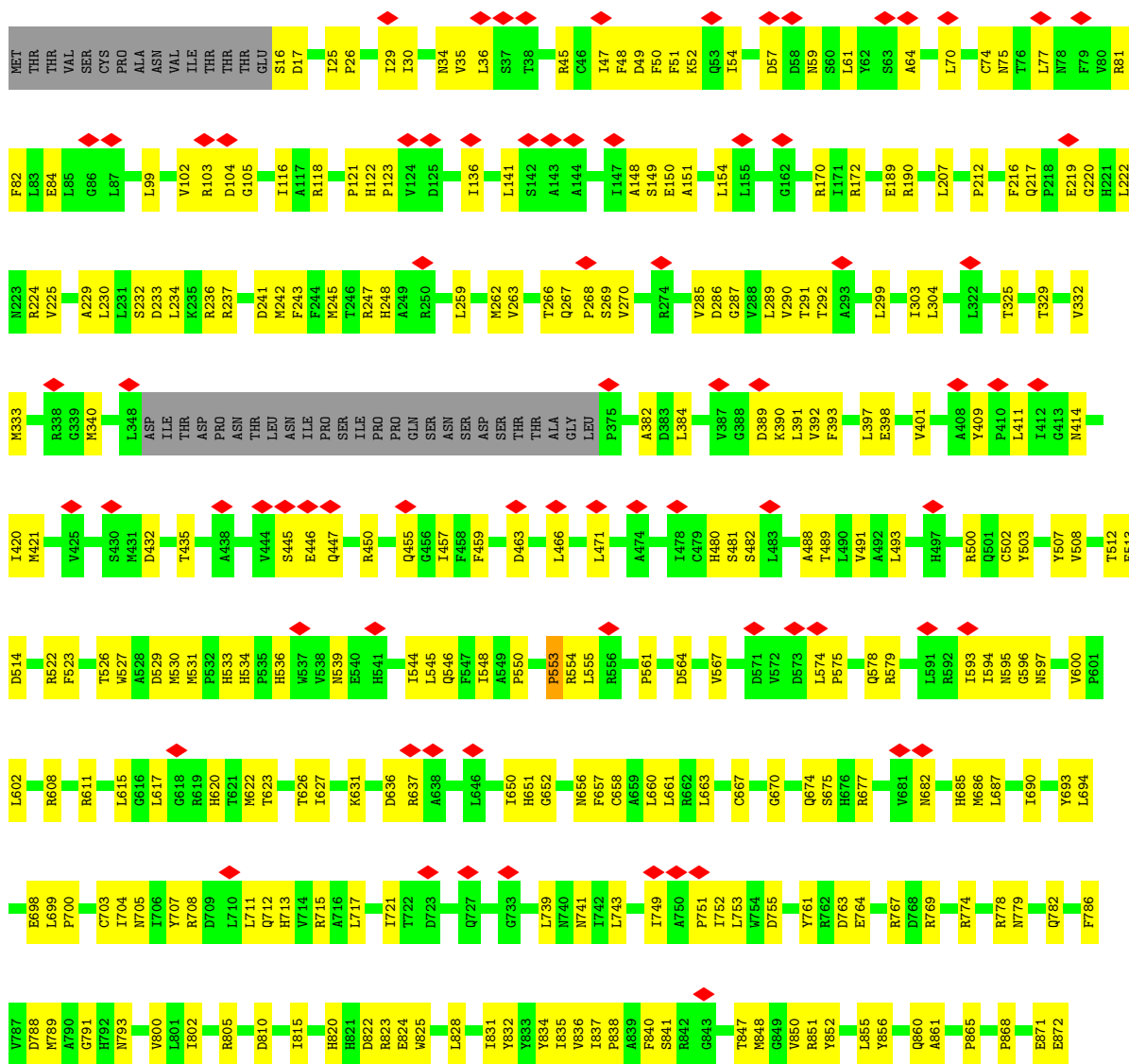
• Molecule 1: Major capsid protein

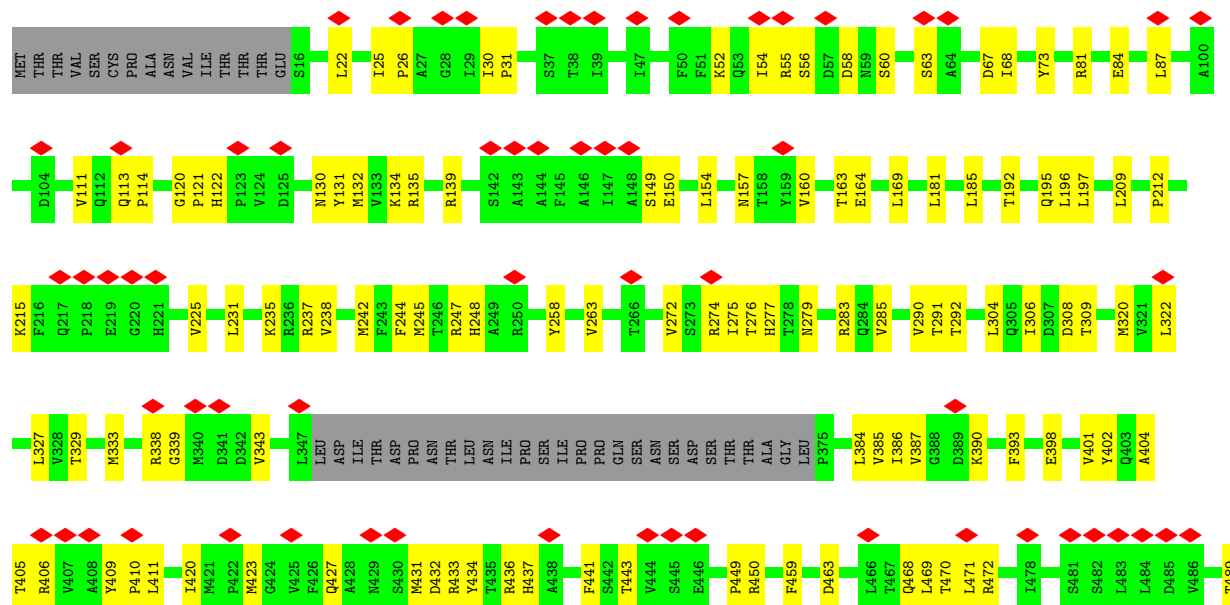


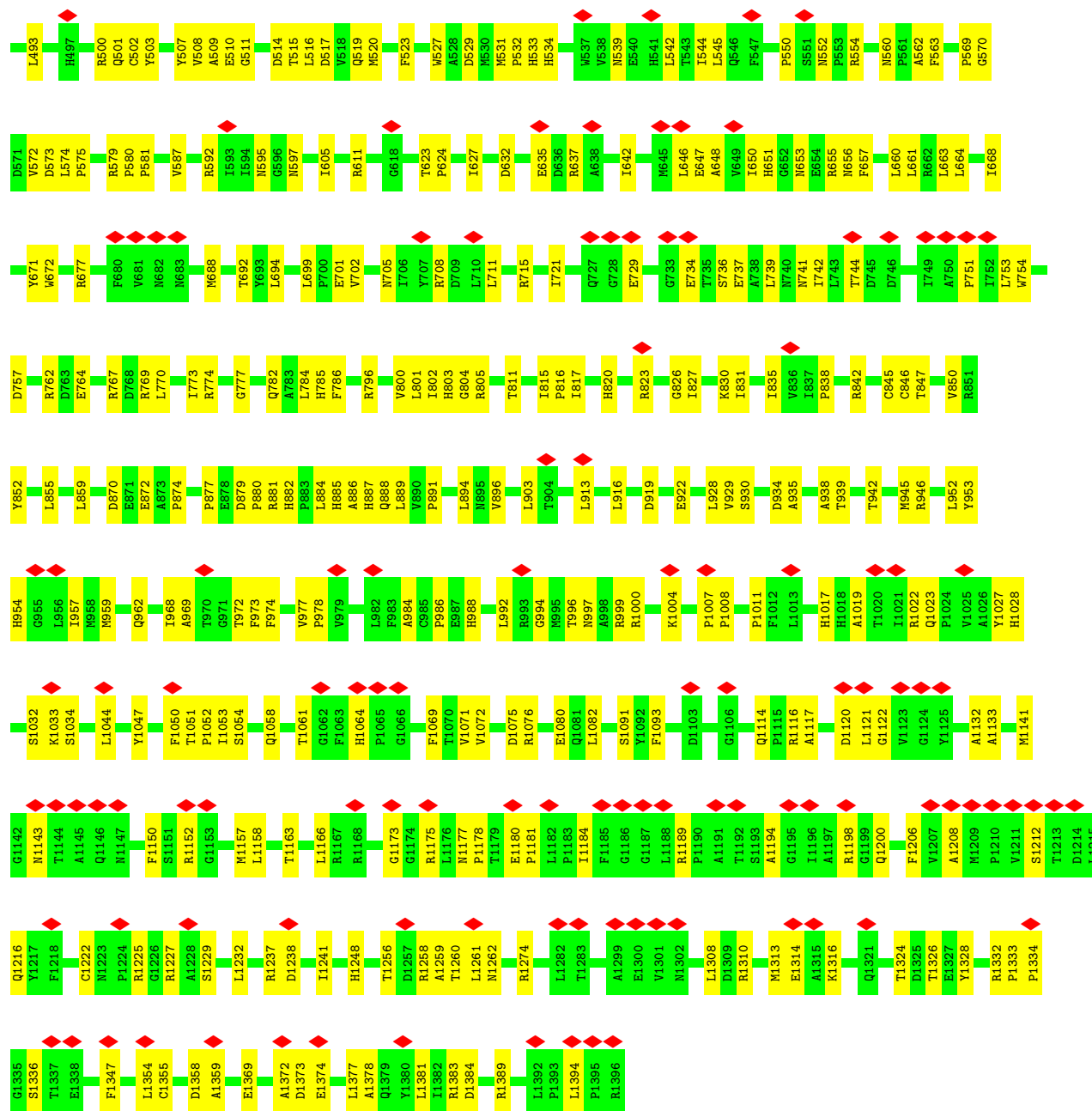
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F1077	A1078	L1082	L1083	Y1084	R1087	A1088	S1089	E1090	S1091	Y1092	F1093	G1094	Q1098	Y1099	H1100	A1104	T1111	L1112	T1113	Q1114	P1115	R1116	A1117	V1119	D1120	L1121	G1122	V1123	G1124	Y1125	Y1126	T1126	C1129	A1130	L1134	R1135	T1139	G1142	N1143	T1144	A1145	Q1146	M1147	L1148	F1149	F1150	S1151	R1152	G1153							
H988	L989	R993	G994	A998	R999	S1000	K1004	P1007	P1008	L1013	N1016	T1020	I1021	R1022	Q1023	P1024	Y1025	V1029	S1032	K1033	L1040	Y1041	Y1047	F1050	T1051	P1052	I1053	S1054	Q1058	L1059	R1060	T1061	G1062	F1063	H1064	P1065	G1066	I1067	T1070	R1073	Q1074	D1075	R1076													
E915	M920	A921	E922	R923	A926	T927	L928	S930	S931	A932	D934	R936	P938	A939	A937	A938	N944	M945	R946	T947	Y948	D949	G950	A951	L952	Y953	H954	G955	L956	Y957	Y958	Y961	Q962	A963	Y964	D965	E966	T967	P968	A969	T970	Q971	T972	F973	Y974	Y975	Y976	Y979	L982	C985						
V807	T811	R823	E824	E827	L828	S829	R830	T831	V832	T833	Y834	R836	P838	A839	F840	M848	R851	Y852	D853	R854	L855	Y856	L859	H862	I863	H864	P865	P874	P877	E878	D879	P880	R881	H882	L884	H885	Q888	L889	N896	T904	L911	T912	L913	L982	C985											
G728	E729	G730	H731	N732	S736	L739	L743	D745	D746	F748	T747	L749	A750	L752	L753	W754	A758	A766	R769	L770	P771	A772	I773	R774	V775	S776	G777	R778	Q782	A783	L784	H785	D788	M789	H792	F794	Q795	R796	R797	D798	M799	L800	I802	R805	F806											
V649	L650	N653	E654	R655	N656	L660	L661	L664	C667	S675	H676	V678	F679	F680	V681	N682	H683	F684	F685	M686	L687	M688	V689	L690	T691	T692	Y693	L694	G697	E698	L699	T704	N705	R708	D709	L710	L711	Q712	H713	V714	R715	L717	R718	D723	F724	T725	I726	Q727								
F557	E558	L559	F563	D571	V572	D573	L574	P577	Q578	R579	P580	P581	E582	V587	N588	A589	T590	L591	R592	L593	T594	N595	G596	N597	P604	D609	C610	R611	Q614	L615	G616	L617	G618	R619	T627	R628	A629	V630	T633	R637	T641	I642	F643	Y644	R645	L646	E647	A648								
D473	A474	M475	G476	T477	I478	C479	H480	S481	S482	L483	L484	D485	V486	L490	L493	R494	Q495	Q496	H497	C502	Y503	Y507	V508	E513	D514	T515	L516	G521	R522	F523	M524	E525	T526	W527	M530	M531	D532	H536	W537	T543	I544	F547	P550	S551	N552	P553	R554	L555	R556							
K390	L391	V392	F393	L397	E398	R399	R400	Y401	Y402	Q403	A404	T405	R406	V407	A408	Y409	P410	L411	L412	P422	M423	G424	V425	F426	Q427	A428	N429	S430	M431	D432	T435	A438	V444	S445	Q447	D448	P449	R450	Q451	Q455	F458	N461	K462	L466	T467	Q468	L471	R472								
G524	THR	ASN	LEU	VAL	THR	ALA	LEU	VAL	MET	GLY	LYS	ALA	VAL	ARG	GLY	MET	ASP	ASP	VAL	ALA	ARG	HIS	LEU	LEU	ASP	ILE	THR	LEU	ASN	ASN	ILE	PRO	SER	ILE	PRO	PRO	GLN	SER	SER	ASN	SER	ASP	SER	THR	THR	ALA	GLY	P375	V376	N377	L384	V385	I386	D389	L471	R472
K249	R250	E251	P252	R253	L254	I255	S256	L259	M262	C265	T266	Q267	P268	S269	V270	R274	I275	T276	H277	T278	N279	T280	ASP	R281	G282	R283	Q284	V285	V288	L289	A293	K296	R297	Q298	L299	L300	Q301	G302	I303	L304	Q305	I306	D307	D308	D312	G318	E319	M320	V321	L322	Q323					



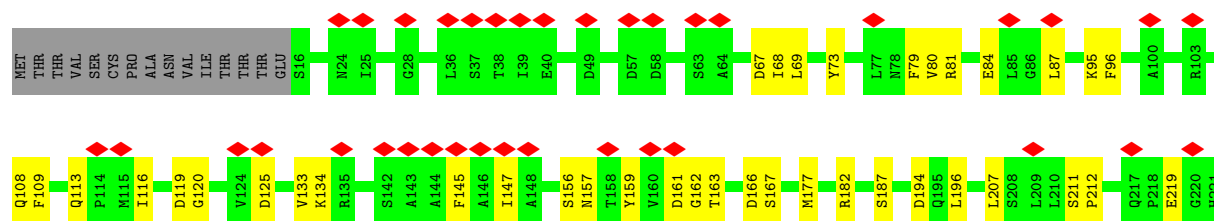
• Molecule 1: Major capsid protein







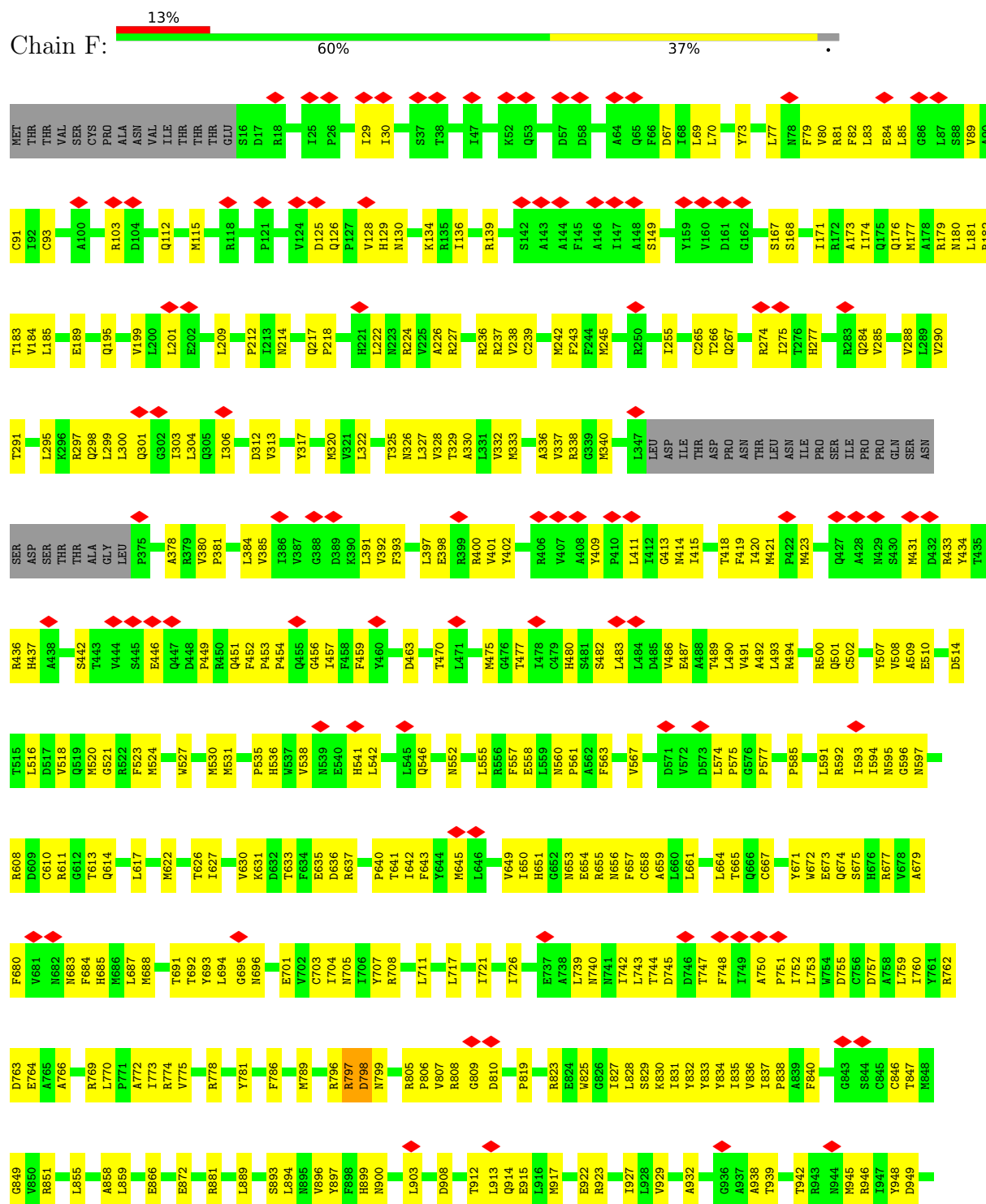
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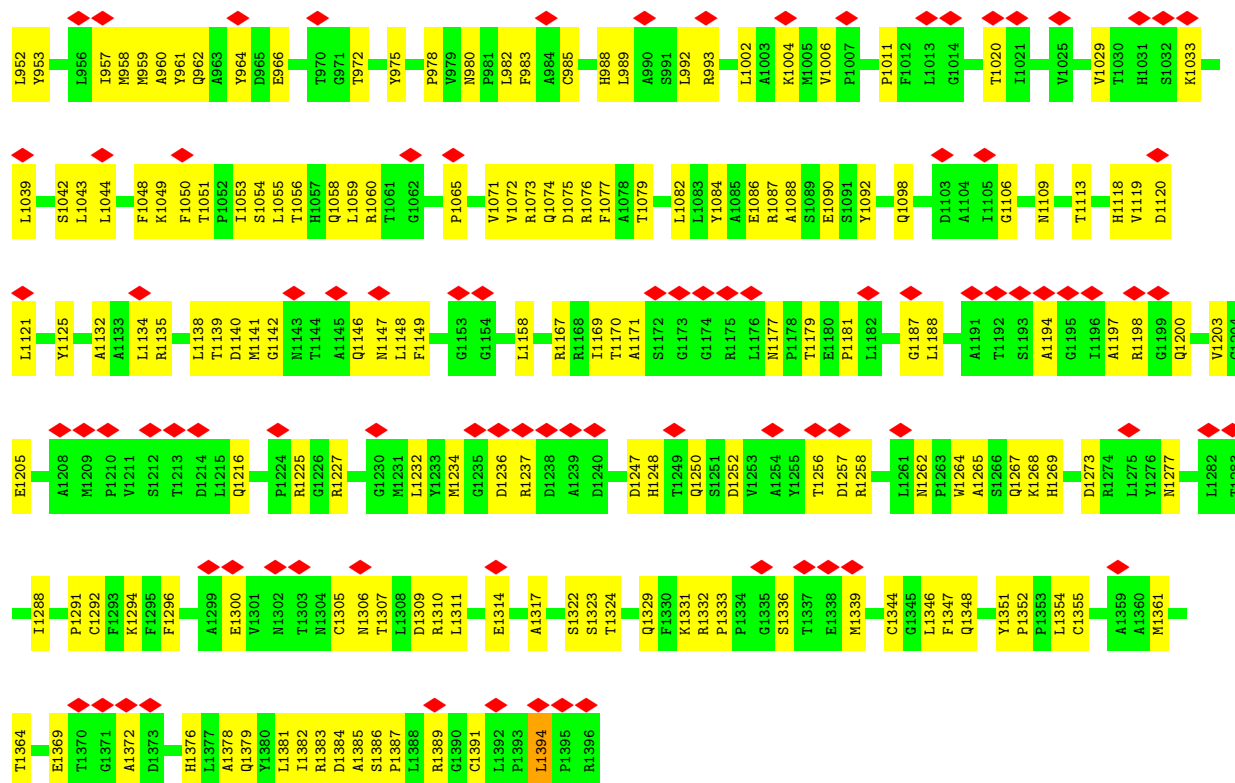




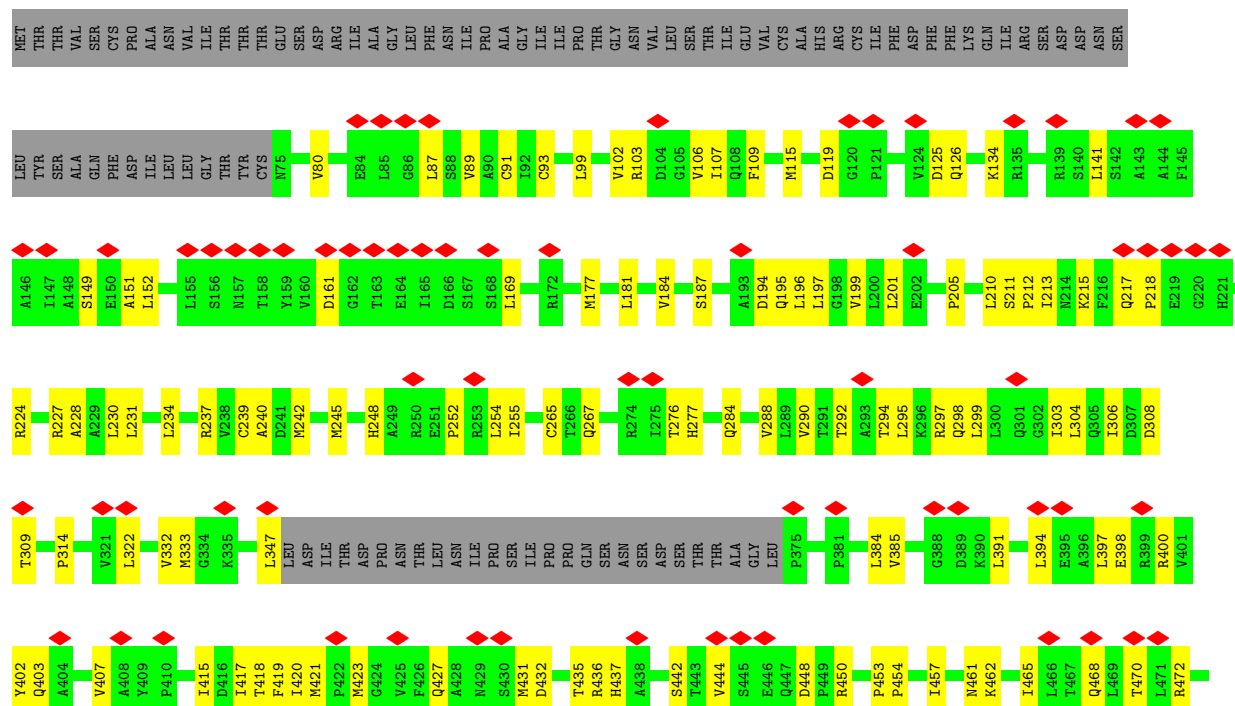


• Molecule 1: Major capsid protein





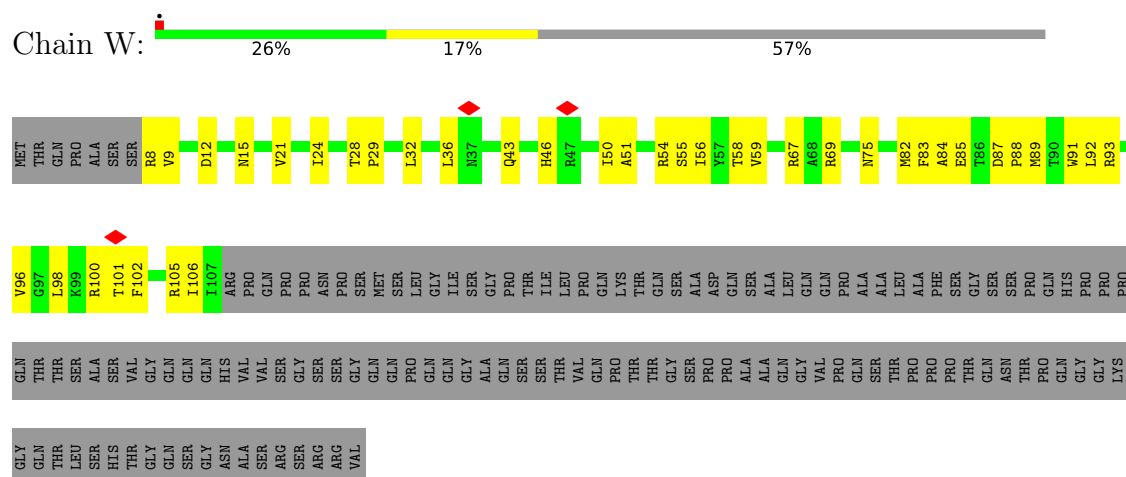
• Molecule 1: Major capsid protein



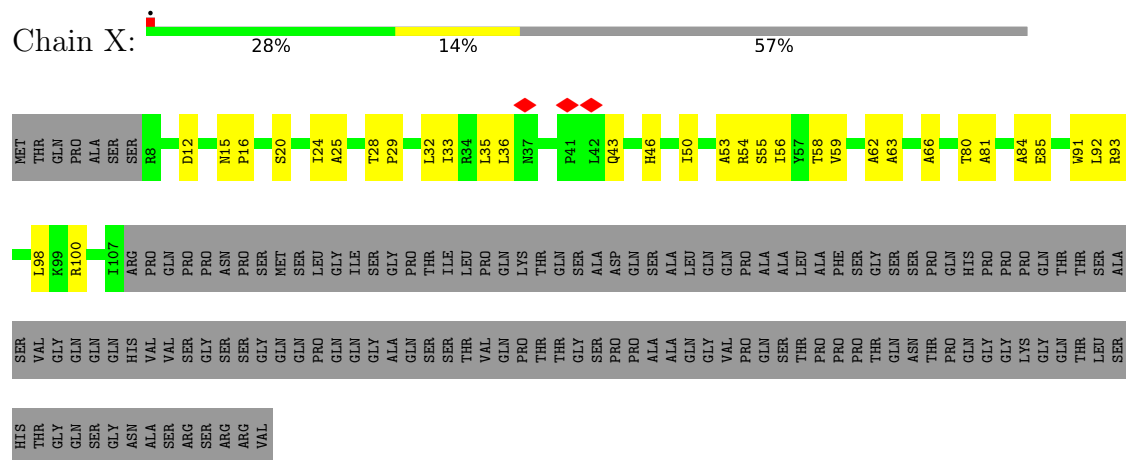




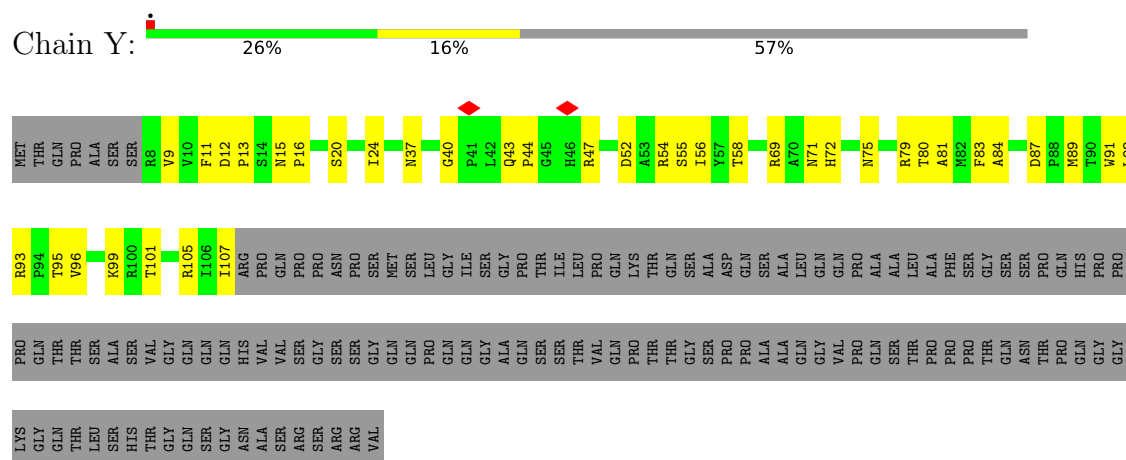
• Molecule 2: Small capsomere-interacting protein



• Molecule 2: Small capsomere-interacting protein

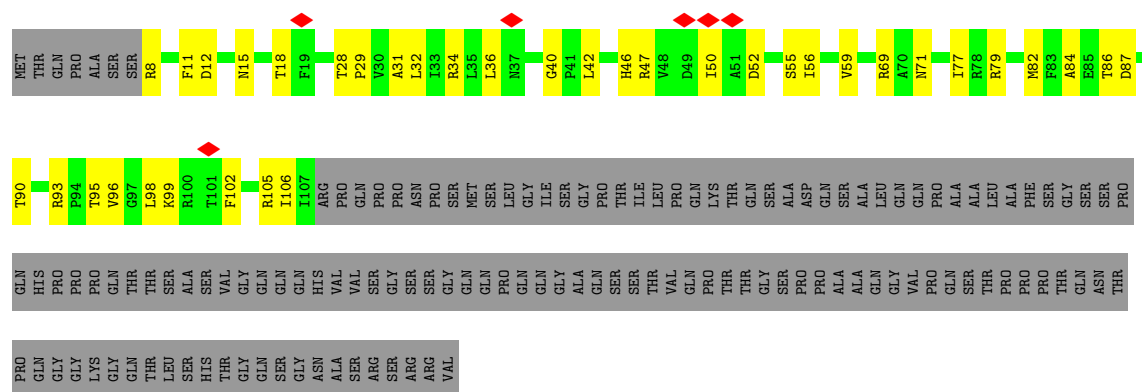


• Molecule 2: Small capsomere-interacting protein



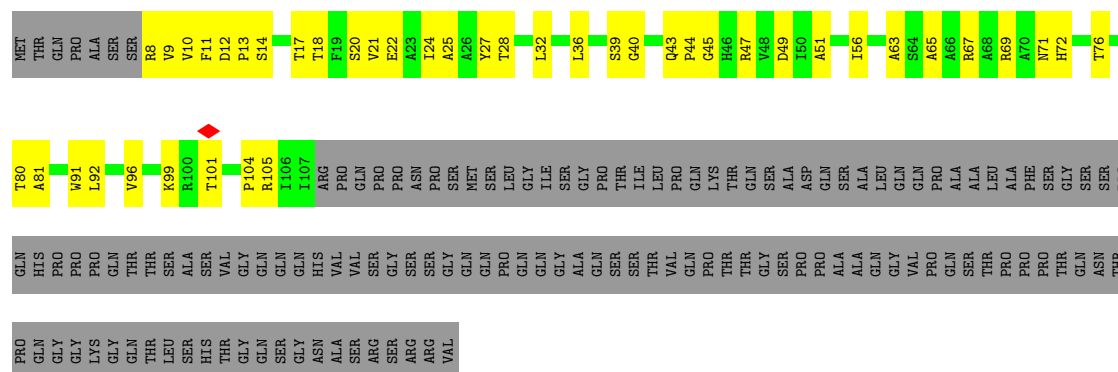
• Molecule 2: Small capsomere-interacting protein





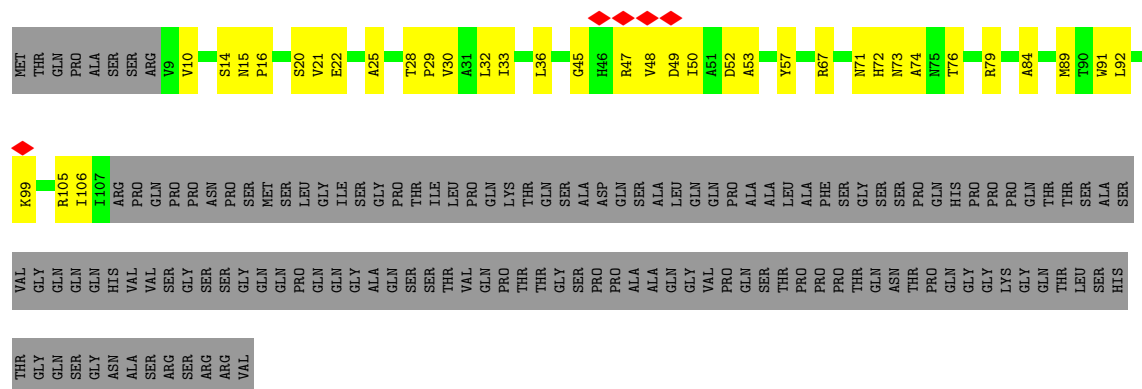
• Molecule 2: Small capsomere-interacting protein

Chain a: 24% 18% 57%



• Molecule 2: Small capsomere-interacting protein

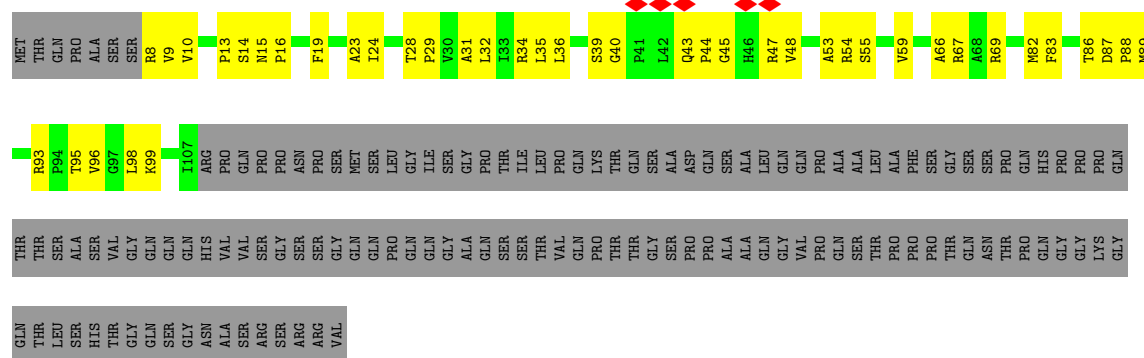
Chain b: 27% 15% 58%



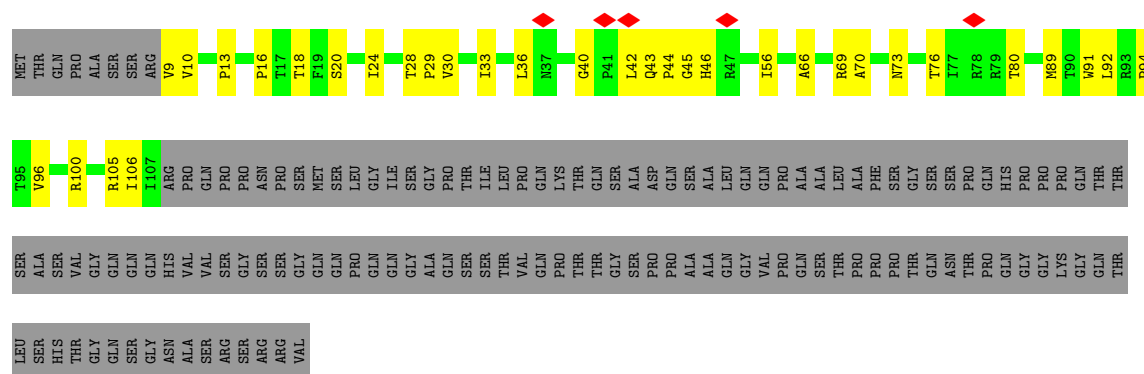
• Molecule 2: Small capsomere-interacting protein

Chain c: 31% 11% 57%

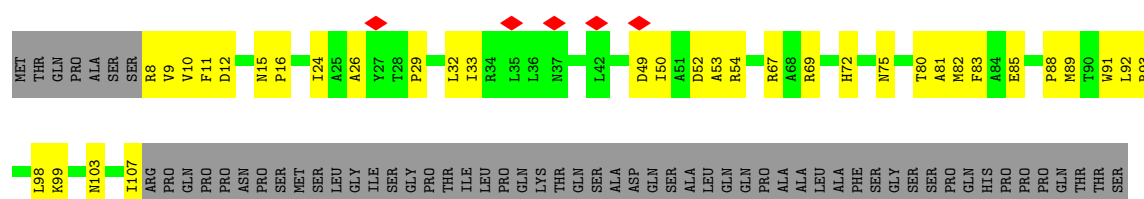
- Molecule 2: Small capsomere-interacting protein



- Molecule 2: Small capsomere-interacting protein

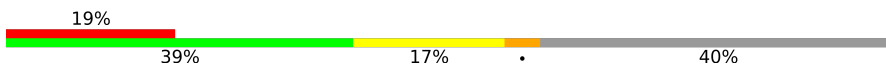


- Molecule 2: Small capsomere-interacting protein



GLY
GLN
THR
LEU
SER
HIS
THR
GLY
GLN
SER
GLY
ASN
ALA
SER
SER
SER
ARG
ARG
VAL

• Molecule 3: Triplex capsid protein 1

Chain e: 

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

GLY
LEU
ASN
LYS
GLN
PRO
ILE
HIS
VAL
F130
F131
E136
H137
A138
V142
L145
R146
H147
P148
S149
D150
M151
E154
A155
R230
M231
T157
L158
T159
Q160
L161
I162
R163
D164
L168
L172
R173
M174
M177
A178
C179
T180
A181
P182
W183
THR
VAL
GLY
GLY
GLY
GLY
LEU
R192
A193

L121
Q124
V125
S126
L127
T128
D129
F130
F131
E136
H137
A138
V142
L145
R146
H147
P148
S149
D150
M151
E154
A155
R230
M231
T157
L158
T159
Q160
L161
I162
R163
D164
L168
L172
R173
M174
M177
A178
C179
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A181
P182
W183
THR
VAL
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GLY
GLY
GLY
LEU
R192
A193

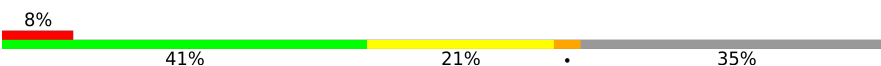
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V195
T196
S197
L198
S199
F200
L201
A202
A203
C204
R205
T210
D211
D216
T220
R221
A221
T222
V223
Y226
G227
C228
S229
R230
M231
T157
L158
T159
Q160
L161
I162
R163
D164
L168
L172
R173
M174
M177
A178
C179
T180
A181
P182
W183
THR
VAL
GLY
GLY
GLY
GLY
LEU
R192
A193

I274
T275
A276
V277
Q282
A284
A285
R286
T287
D288
K289
T290
S291
T292
R293
R294
V295
T296
V307
D308
H312
L313
S314
A315
D316
G317
L318
K319
H320
V321
F322
T328
Q329
R330
R331
Q332
R333
E334
G335
V336
L340
A341
L342
N346
E347
F356
L357
L358
G359
R360
I361
ARG

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

PHE
ARG
GLY
GLY
ALA
TRP
THR
GLN
L430
S431
T438
L439
T442
L443
P444
S445
E446
S447
V448
R449
Y450
T451
R452
R453
M454
G458
G459
L467
E468
G469
G474
T475
N476
T477
V478
N479
Y482
TYR

• Molecule 3: Triplex capsid protein 1

Chain f: 

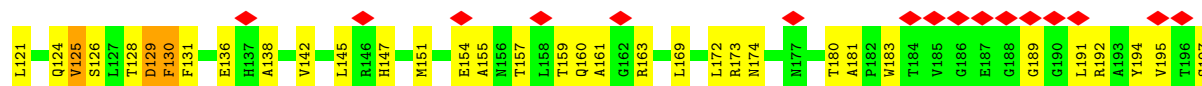
MET
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SER
GLN
PRO
THR
ASN
HIS
PHE
THR
LEU
ASN
GLU
GLN
THR
LEU
CYS
GLY
THR
ASN
PHE
MET
ILE
GLN
ILE
GLY
ASN
GLY
LEU
HIS
MET
THR
TYR
ALA
PRO
GLY
PHE
PHE
GLY
ASN
TRP
SER
ARG
ASP
LEU
THR
ILE
GLY
PRO
ARG
PHE
GLY

GLY
LEU
ASN
LYS
GLN
PRO
ILE
HIS
VAL
F130
F131
E136
H137
A138
V142
L145
R146
H147
M151
E154
A155
R156
T157
L158
T159
Q160
R163
L168
L172
R173
M174
M177
T180
A181
P182
W183
T184
V185
G186
E187
G188
G189
G190
L191
R192
A193
Y194
V195
T196
S197

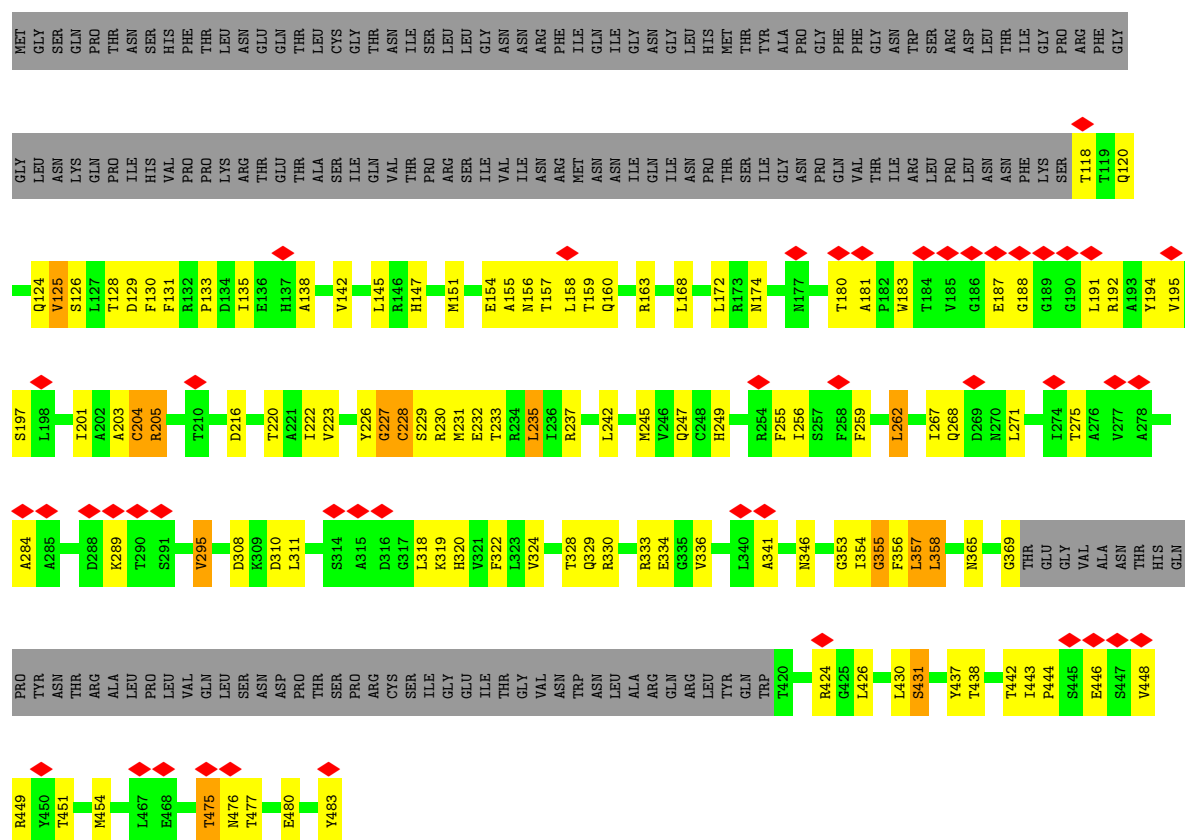
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I122
Q123
Q124
V125
S126
L127
T128
D129
F130
F131
E136
H137
A138
V142
L145
R146
H147
M151
E154
A155
R156
T157
L158
T159
Q160
R163
L168
L172
R173
M174
M177
T180
A181
P182
W183
T184
V185
G186
E187
G188
G189
G190
L191
R192
A193
Y194
V195
T196
S197

T201
A202
C204
R205
A206
E207
T210
D216
T220
R221
A221
T222
V223
Y226
G227
C228
S229
R230
M231
T232
R233
L236
R237
C241
L242
M245
V246
Q247
H249
V250
F251
F255
I256
S257
F258
F259
L262
L263
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Y265
T266
I267
Q268
D269
N270
L271
C272
N273

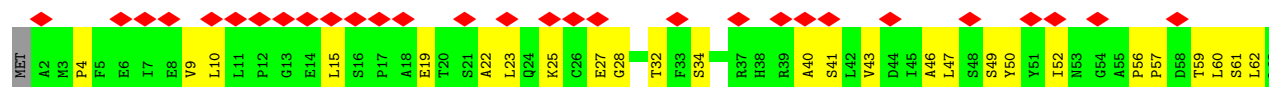
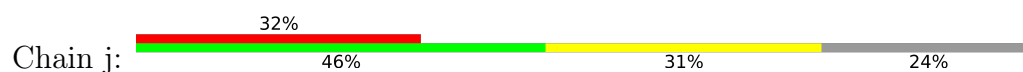
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T275
R286
T287
D288
K289
T290
V295
I299
F304
W305
D306
V307
D308
R309
D310
L311
H312
L313
A315
D316
G317
L318
K319
H320
V321
F322
T328
Q329
R330
R331
Q332
R333
E334
G335
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F350
I354
G355
F356
L357
L358
I361
N365

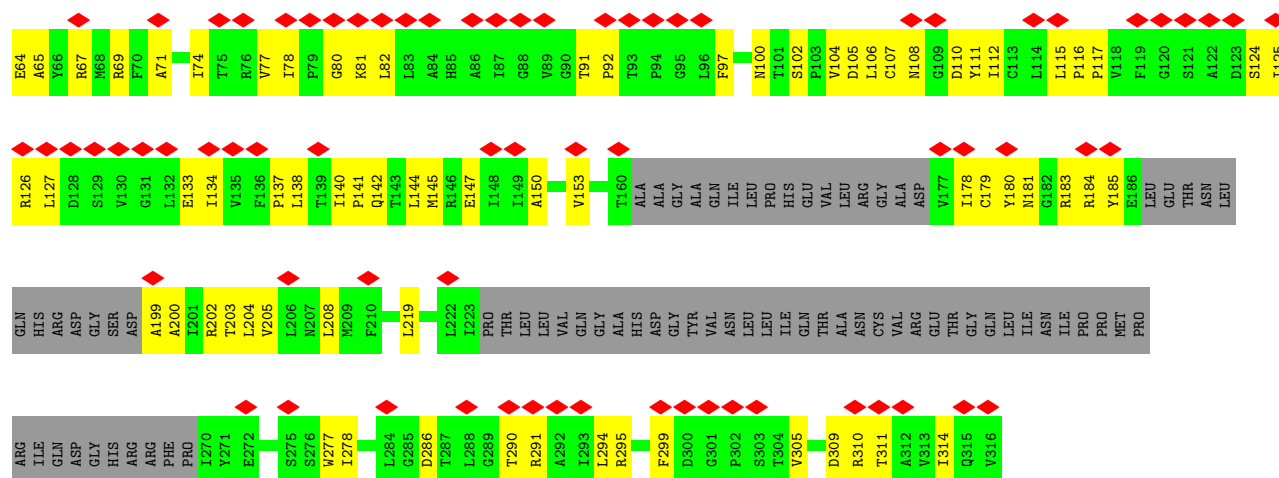


- Molecule 3: Triplex capsid protein 1

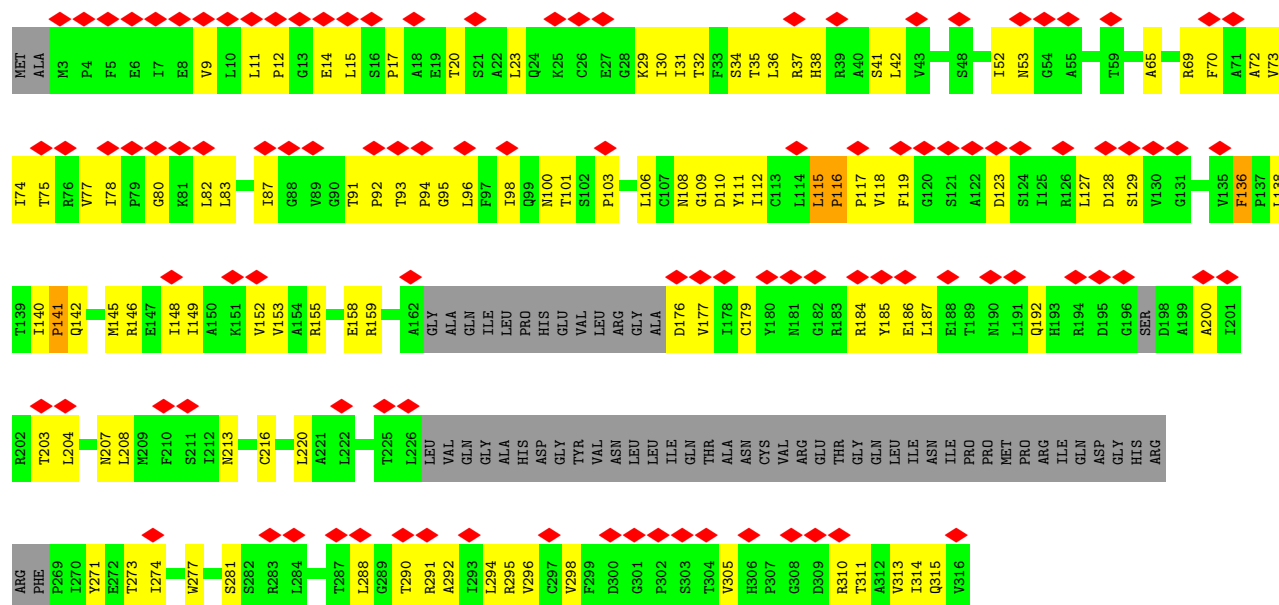


- Molecule 4: Triplex capsid protein 2

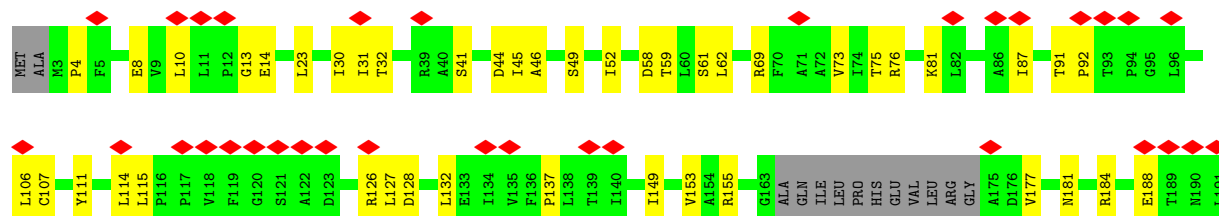


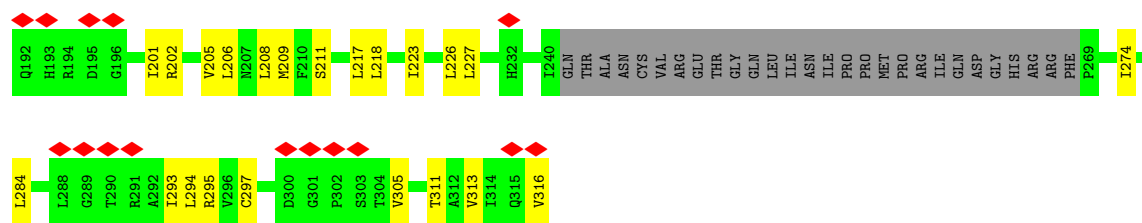


• Molecule 4: Triplex capsid protein 2

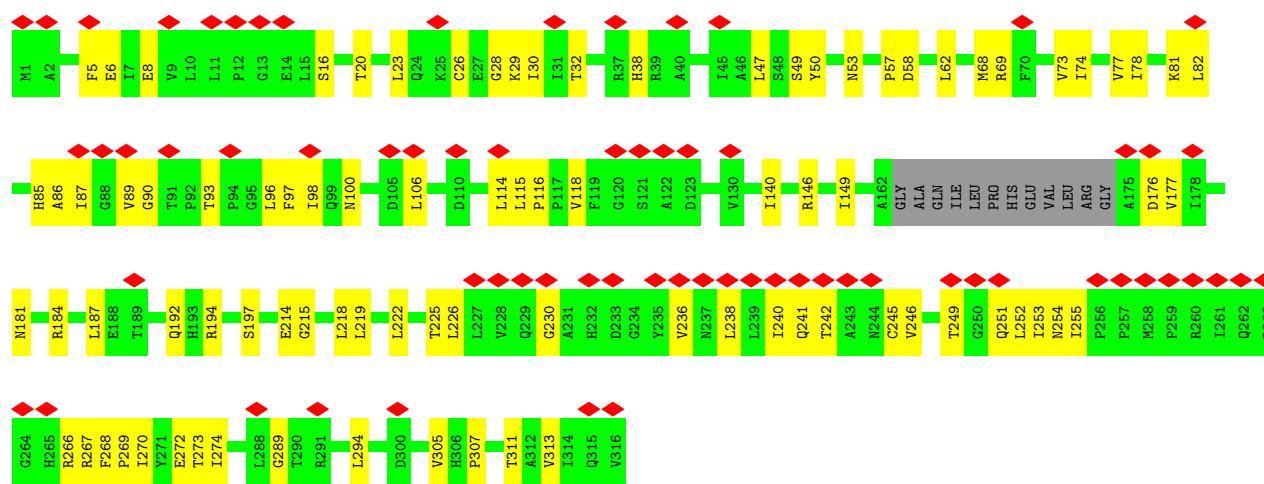


• Molecule 4: Triplex capsid protein 2

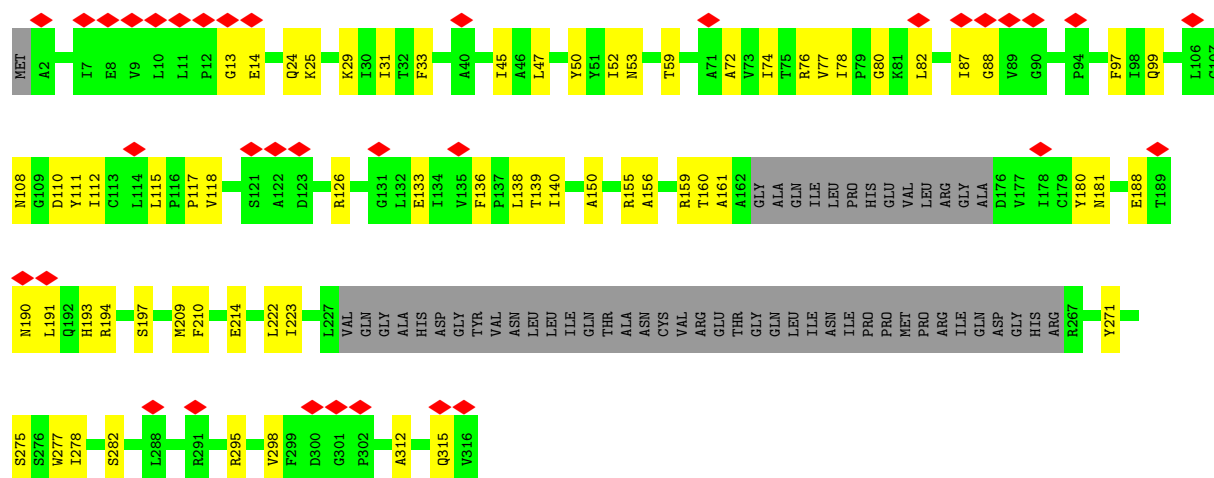




• Molecule 4: Triplex capsid protein 2



• Molecule 4: Triplex capsid protein 2

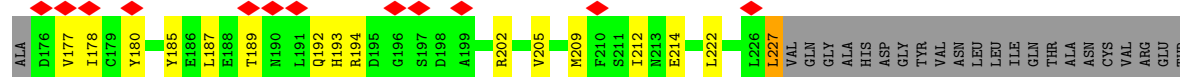
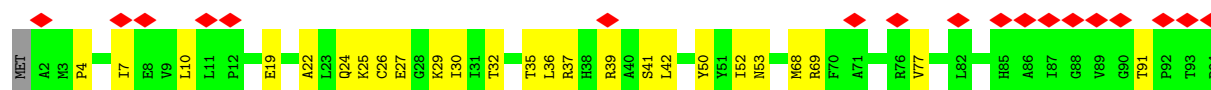


• Molecule 4: Triplex capsid protein 2

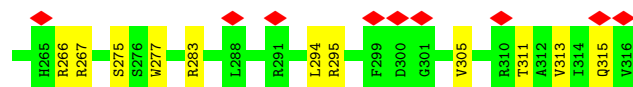
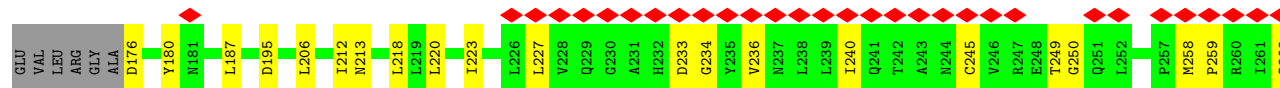
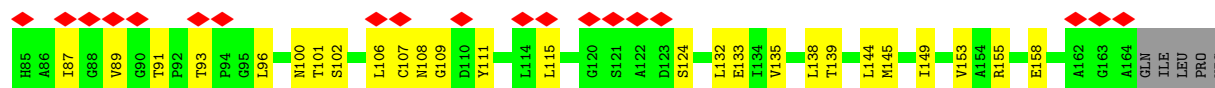




• Molecule 4: Triplex capsid protein 2



• Molecule 4: Triplex capsid protein 2



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	2838	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	56	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	13.818	Depositor
Minimum map value	-12.706	Depositor
Average map value	-0.004	Depositor
Map value standard deviation	1.495	Depositor
Recommended contour level	3	Depositor
Map size ($\text{\AA}$)	1672.9601, 1672.9601, 1672.9601	wwPDB
Map dimensions	1280, 1280, 1280	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.307, 1.307, 1.307	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.30	0/10846	0.43	0/14767
1	B	0.25	0/10854	0.43	2/14778 (0.0%)
1	C	0.27	0/10846	0.43	1/14767 (0.0%)
1	E	0.26	1/10834 (0.0%)	0.43	5/14748 (0.0%)
1	F	0.23	1/10846 (0.0%)	0.44	3/14767 (0.0%)
1	G	0.22	0/10377	0.44	1/14130 (0.0%)
1	M	0.30	0/10835	0.43	2/14752 (0.0%)
1	N	0.30	0/10835	0.42	1/14752 (0.0%)
1	O	0.30	0/10854	0.42	1/14778 (0.0%)
1	P	0.30	0/10854	0.43	0/14778
1	Q	0.30	0/10846	0.43	1/14767 (0.0%)
1	R	0.29	0/10835	0.45	2/14752 (0.0%)
1	S	0.30	0/10854	0.42	0/14778
1	T	0.30	0/10846	0.43	0/14767
1	U	0.23	0/10675	0.44	3/14536 (0.0%)
1	z	0.18	0/4800	0.43	0/6517
2	D	0.20	0/782	0.48	0/1069
2	H	0.21	0/771	0.49	0/1055
2	I	0.21	0/782	0.47	0/1069
2	J	0.20	0/782	0.43	0/1069
2	K	0.20	0/782	0.47	0/1069
2	L	0.19	0/782	0.49	0/1069
2	V	0.20	0/782	0.46	0/1069
2	W	0.21	0/782	0.46	0/1069
2	X	0.21	0/782	0.45	0/1069
2	Y	0.21	0/782	0.45	0/1069
2	Z	0.23	0/782	0.46	0/1069
2	a	0.22	0/782	0.48	0/1069
2	b	0.21	0/771	0.46	0/1055
2	c	0.23	0/782	0.49	0/1069
2	d	0.21	0/782	0.49	0/1069
3	e	0.46	5/2342 (0.2%)	1.03	31/3175 (1.0%)
3	f	0.41	3/2547 (0.1%)	0.92	21/3456 (0.6%)
3	g	0.46	3/2551 (0.1%)	0.87	19/3461 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	h	0.42	2/2550 (0.1%)	0.87	19/3459 (0.5%)
3	i	0.43	3/2544 (0.1%)	0.91	24/3451 (0.7%)
4	j	0.20	0/1868	0.43	0/2542
4	k	0.28	0/2127	0.41	0/2898
4	l	0.24	0/2046	0.38	0/2787
4	m	0.27	0/2064	0.40	0/2811
4	n	0.29	0/2055	0.47	2/2799 (0.1%)
4	o	0.28	2/2003 (0.1%)	0.59	7/2727 (0.3%)
4	p	0.26	0/2368	0.41	0/3227
4	q	0.25	0/2350	0.40	0/3203
4	r	0.26	0/2453	0.43	1/3345 (0.0%)
4	s	0.27	0/2364	0.41	1/3222 (0.0%)
All	All	0.28	20/212777 (0.0%)	0.48	147/289704 (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	C	0	1
1	F	0	1
1	G	0	1
1	Q	0	1
1	T	0	2
3	g	0	1
All	All	0	7

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	g	133	PRO	N-CD	11.23	1.63	1.47
3	h	228	CYS	CA-C	8.32	1.64	1.52
3	f	228	CYS	CA-C	8.30	1.63	1.52
3	e	228	CYS	CA-C	8.13	1.63	1.52
3	i	228	CYS	CA-C	7.62	1.62	1.52
3	g	228	CYS	CA-C	7.44	1.62	1.52
1	F	797	ARG	CA-C	6.43	1.61	1.52
3	g	191	LEU	CA-CB	-6.26	1.45	1.53
3	e	283	GLU	CA-C	5.95	1.62	1.52
3	i	157	THR	CA-C	5.93	1.60	1.52
3	e	157	THR	CA-C	5.91	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	o	141	PRO	N-CD	5.82	1.55	1.47
3	e	332	GLN	CA-C	5.70	1.61	1.52
1	E	1394	LEU	C-N	5.40	1.40	1.33
3	f	129	ASP	CA-C	5.29	1.59	1.52
4	o	116	PRO	N-CD	-5.16	1.40	1.47
3	h	357	LEU	CA-C	5.16	1.61	1.52
3	e	357	LEU	CA-C	5.12	1.61	1.52
3	f	357	LEU	CA-C	5.12	1.61	1.52
3	i	357	LEU	CA-C	5.08	1.61	1.52

All (147) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	22	LEU	N-CA-C	-10.80	99.51	111.28
3	f	308	ASP	N-CA-C	10.52	122.32	111.07
3	e	333	ARG	N-CA-C	10.18	122.65	110.44
3	e	284	ALA	N-CA-C	9.77	123.87	112.93
1	F	798	ASP	N-CA-C	9.72	122.87	110.33
1	B	555	LEU	N-CA-C	-9.12	101.30	111.14
3	e	447	SER	N-CA-C	9.03	123.22	109.23
3	f	130	PHE	N-CA-C	8.99	123.81	113.02
3	h	310	ASP	N-CA-C	8.99	123.35	112.38
3	e	356	PHE	N-CA-C	8.98	120.67	111.07
3	h	356	PHE	N-CA-C	8.97	120.67	111.07
3	i	356	PHE	N-CA-C	8.96	120.66	111.07
3	f	356	PHE	N-CA-C	8.90	120.59	111.07
3	e	431	SER	N-CA-C	-8.63	102.75	113.28
3	e	283	GLU	N-CA-C	8.50	123.30	113.19
3	e	430	LEU	N-CA-C	8.49	134.76	111.00
3	i	310	ASP	N-CA-C	8.40	122.63	112.38
3	f	129	ASP	N-CA-C	8.15	119.95	111.14
3	f	312	HIS	N-CA-C	8.00	122.47	112.24
3	e	203	ALA	N-CA-C	7.96	122.56	113.01
3	i	203	ALA	N-CA-C	7.95	122.55	113.01
3	g	356	PHE	N-CA-C	7.92	119.55	111.07
3	h	309	LYS	N-CA-C	7.88	119.51	111.07
4	n	227	LEU	CB-CA-C	-7.77	95.33	110.10
3	h	358	LEU	N-CA-CB	7.76	122.79	111.54
3	f	358	LEU	N-CA-CB	7.74	122.76	111.54
3	e	358	LEU	N-CA-CB	7.73	122.74	111.54
3	i	158	LEU	N-CA-CB	7.71	121.53	110.88
3	i	358	LEU	N-CA-CB	7.70	122.71	111.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	e	158	LEU	N-CA-CB	7.70	121.51	110.88
1	F	797	ARG	N-CA-C	7.68	122.96	112.90
3	g	446	GLU	N-CA-C	7.45	120.46	111.82
3	h	130	PHE	N-CA-C	7.44	121.95	113.02
3	i	232	GLU	N-CA-C	-7.44	102.33	111.33
3	e	232	GLU	N-CA-C	-7.43	102.34	111.33
3	e	130	PHE	N-CA-C	7.42	121.93	113.02
3	f	232	GLU	N-CA-C	-7.36	102.42	111.33
3	h	203	ALA	N-CA-C	7.33	121.81	113.01
3	g	232	GLU	N-CA-C	-7.31	102.48	111.33
4	s	195	ASP	N-CA-C	7.31	119.25	111.28
3	g	203	ALA	N-CA-C	7.28	121.75	113.01
3	f	310	ASP	N-CA-CB	7.26	120.60	110.07
1	G	444	VAL	N-CA-C	-7.16	106.91	113.71
1	E	555	LEU	N-CA-C	-7.13	101.78	112.04
3	f	357	LEU	CA-C-O	6.91	128.09	119.59
3	f	357	LEU	CB-CA-C	-6.90	98.88	110.81
3	e	293	ARG	N-CA-C	6.89	120.78	112.38
3	e	357	LEU	CB-CA-C	-6.88	98.91	110.81
3	h	357	LEU	CB-CA-C	-6.87	98.92	110.81
3	i	357	LEU	CB-CA-C	-6.87	98.92	110.81
3	f	130	PHE	N-CA-CB	-6.83	100.56	110.47
3	e	357	LEU	CA-C-O	6.79	127.94	119.59
4	o	116	PRO	N-CA-C	6.78	118.97	110.70
3	i	355	GLY	N-CA-C	-6.76	104.61	112.73
3	i	357	LEU	CA-C-O	6.74	127.88	119.59
3	g	158	LEU	N-CA-CB	6.73	120.17	110.88
3	h	357	LEU	CA-C-O	6.71	127.85	119.59
4	n	268	PHE	N-CA-C	6.63	124.47	109.81
1	F	797	ARG	CA-C-O	6.62	127.35	119.60
3	e	228	CYS	CA-C-O	6.59	129.94	120.51
1	E	225	VAL	N-CA-C	-6.58	106.38	112.96
3	g	358	LEU	N-CA-CB	6.58	121.24	111.51
3	i	157	THR	CA-C-O	6.57	126.50	119.34
3	f	228	CYS	CA-C-O	6.56	129.89	120.51
3	e	157	THR	CA-C-O	6.55	126.48	119.34
3	e	129	ASP	N-CA-C	6.51	118.17	111.14
3	h	129	ASP	N-CA-C	6.49	118.15	111.14
3	e	332	GLN	CA-C-O	6.46	127.76	119.16
3	h	228	CYS	CA-C-O	6.46	129.74	120.51
3	i	229	SER	N-CA-C	6.44	120.33	109.76
3	g	133	PRO	N-CA-CB	6.43	109.68	103.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	g	229	SER	N-CA-C	6.40	120.26	109.76
3	e	230	ARG	N-CA-C	6.38	124.38	110.80
3	f	229	SER	N-CA-C	6.38	120.67	109.96
3	h	229	SER	N-CA-C	6.35	120.63	109.96
4	o	140	ILE	CA-C-N	6.34	127.77	119.84
4	o	140	ILE	C-N-CA	6.34	127.77	119.84
3	e	229	SER	N-CA-C	6.33	120.60	109.96
3	f	230	ARG	N-CA-C	6.32	124.26	110.80
3	g	230	ARG	N-CA-C	6.32	124.25	110.80
3	i	228	CYS	CA-C-O	6.31	129.53	120.51
3	i	205	ARG	N-CA-CB	6.30	120.68	111.54
3	i	230	ARG	N-CA-C	6.30	124.21	110.80
3	g	135	ILE	N-CA-C	6.28	116.58	111.62
1	U	254	LEU	N-CA-C	-6.27	104.53	111.36
3	e	205	ARG	N-CA-CB	6.26	120.61	111.54
3	e	157	THR	CB-CA-C	-6.23	99.98	110.44
3	i	353	GLY	N-CA-C	6.23	120.17	112.64
3	i	157	THR	CB-CA-C	-6.22	99.99	110.44
3	e	283	GLU	CA-C-O	6.19	128.82	118.91
3	f	448	VAL	N-CA-CB	-6.17	103.99	110.72
3	g	228	CYS	CA-C-O	6.17	129.34	120.51
3	i	128	THR	N-CA-CB	-6.12	101.10	111.20
3	f	310	ASP	N-CA-C	-6.07	104.58	111.14
3	h	232	GLU	N-CA-C	-6.05	104.01	111.33
1	B	553	PRO	N-CA-C	6.02	121.77	113.65
3	e	156	ASN	N-CA-C	5.96	118.56	111.71
3	i	284	ALA	N-CA-C	5.95	119.59	112.93
3	g	357	LEU	CB-CA-C	-5.94	100.54	110.81
3	g	205	ARG	N-CA-CB	5.94	120.15	111.54
3	e	130	PHE	N-CA-CB	-5.93	101.87	110.47
3	g	448	VAL	N-CA-CB	-5.92	104.32	110.95
3	h	205	ARG	N-CA-CB	5.92	120.12	111.54
3	h	130	PHE	N-CA-CB	-5.91	101.90	110.47
3	i	156	ASN	N-CA-C	5.87	118.46	111.71
3	g	133	PRO	CA-N-CD	-5.86	103.79	112.00
1	U	49	ASP	N-CA-C	-5.84	104.60	110.97
3	h	448	VAL	N-CA-CB	-5.82	104.43	110.95
3	i	431	SER	N-CA-C	5.80	120.08	112.89
3	e	128	THR	N-CA-CB	-5.76	101.69	111.20
3	f	128	THR	N-CA-CB	-5.75	101.71	111.20
1	Q	18	ARG	N-CA-C	-5.72	105.12	111.36
3	h	230	ARG	N-CA-C	5.55	122.63	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	f	203	ALA	N-CA-C	5.53	119.64	113.01
1	U	47	ILE	CB-CA-C	-5.51	102.25	111.29
1	O	1311	LEU	N-CA-C	-5.47	104.34	111.02
3	f	232	GLU	N-CA-CB	5.44	118.22	110.06
3	g	232	GLU	N-CA-CB	5.42	118.18	110.06
3	h	290	THR	N-CA-C	-5.40	105.04	111.03
3	i	232	GLU	N-CA-CB	5.40	118.16	110.06
3	e	232	GLU	N-CA-CB	5.37	118.12	110.06
3	f	290	THR	N-CA-C	-5.37	105.06	111.03
1	E	553	PRO	N-CA-C	5.34	120.57	113.57
3	g	157	THR	CB-CA-C	-5.32	101.50	110.64
1	C	225	VAL	N-CA-C	-5.30	107.44	111.62
1	E	486	VAL	N-CA-C	-5.29	108.12	113.20
3	e	448	VAL	CB-CA-C	-5.29	106.19	111.80
3	h	292	THR	N-CA-C	5.26	118.03	109.24
3	f	312	HIS	CB-CA-C	-5.23	103.25	111.51
1	M	24	ASN	CA-C-N	5.22	123.53	120.24
1	M	24	ASN	C-N-CA	5.22	123.53	120.24
3	e	173	ARG	N-CA-C	-5.21	105.52	111.14
3	g	357	LEU	CA-C-O	5.19	125.97	119.59
1	E	554	ARG	CB-CA-C	-5.17	104.86	111.22
3	i	476	ASN	N-CA-CB	-5.14	103.18	110.58
3	i	228	CYS	N-CA-C	5.13	121.74	110.80
4	r	130	VAL	N-CA-C	-5.12	107.84	112.96
4	o	116	PRO	CA-C-N	5.09	126.21	119.84
4	o	116	PRO	C-N-CA	5.09	126.21	119.84
1	R	1001	VAL	N-CA-C	-5.08	107.88	112.96
3	g	228	CYS	N-CA-C	5.07	121.61	110.80
3	i	204	CYS	CA-C-O	5.06	125.40	119.28
1	N	1123	VAL	N-CA-C	-5.06	107.62	111.62
3	e	282	GLN	N-CA-C	-5.02	105.27	111.40
3	h	128	THR	N-CA-CB	-5.01	102.93	111.20
4	o	115	LEU	CA-C-N	5.00	125.53	120.38
4	o	115	LEU	C-N-CA	5.00	125.53	120.38

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	1394	LEU	Mainchain
1	F	1394	LEU	Mainchain
1	G	1394	LEU	Mainchain

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Mol	Chain	Res	Type	Group
1	Q	1394	LEU	Mainchain
1	T	1394	LEU	Mainchain
1	T	531	MET	Peptide
3	g	183	TRP	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	10592	0	10438	256	0
1	B	10600	0	10449	363	0
1	C	10592	0	10438	304	0
1	E	10582	0	10431	317	0
1	F	10592	0	10438	419	0
1	G	10133	0	9988	423	0
1	M	10582	0	10429	270	0
1	N	10582	0	10429	298	0
1	O	10600	0	10449	255	0
1	P	10600	0	10449	275	0
1	Q	10592	0	10438	238	0
1	R	10582	0	10429	281	0
1	S	10600	0	10449	245	0
1	T	10592	0	10438	250	0
1	U	10422	0	10256	418	0
1	z	4709	0	4688	159	0
2	D	765	0	777	33	0
2	H	754	0	764	29	0
2	I	765	0	777	33	0
2	J	765	0	777	33	0
2	K	765	0	777	41	0
2	L	765	0	777	37	0
2	V	765	0	777	37	0
2	W	765	0	777	39	0
2	X	765	0	777	29	0
2	Y	765	0	777	34	0
2	Z	765	0	777	36	0
2	a	765	0	777	35	0
2	b	754	0	764	33	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	c	765	0	777	22	0
2	d	765	0	777	32	0
3	e	2294	0	2262	79	0
3	f	2492	0	2443	96	0
3	g	2497	0	2449	92	0
3	h	2496	0	2447	106	0
3	i	2490	0	2442	82	0
4	j	1837	0	1909	82	0
4	k	2090	0	2152	47	0
4	l	2010	0	2074	46	0
4	m	2028	0	2090	45	0
4	n	2019	0	2082	53	0
4	o	1969	0	2031	103	0
4	p	2325	0	2393	65	0
4	q	2307	0	2371	74	0
4	r	2407	0	2476	85	0
4	s	2321	0	2384	58	0
All	All	207987	0	206270	5915	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 14.

All (5915) 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:G:523:PHE:CD1	1:G:1011:PRO:HD3	1.46	1.49
1:G:523:PHE:CE1	1:G:1011:PRO:HD3	1.53	1.40
4:o:115:LEU:HD12	4:o:116:PRO:CD	1.51	1.40
3:e:357:LEU:CD1	3:e:358:LEU:HD12	1.57	1.35
3:h:357:LEU:CD1	3:h:358:LEU:HD12	1.57	1.33
3:i:357:LEU:CD1	3:i:358:LEU:HD12	1.57	1.32
3:f:357:LEU:CD1	3:f:358:LEU:HD12	1.57	1.32
4:o:115:LEU:CD1	4:o:116:PRO:CD	2.16	1.22
4:o:115:LEU:CD1	4:o:116:PRO:HD2	1.72	1.19
3:e:357:LEU:HD11	3:e:358:LEU:HD12	1.27	1.17
3:i:357:LEU:HD11	3:i:358:LEU:HD12	1.26	1.17
3:h:227:GLY:O	3:h:228:CYS:SG	2.03	1.16
1:G:523:PHE:CD1	1:G:1011:PRO:CD	2.28	1.15
3:e:357:LEU:HD11	3:e:358:LEU:CD1	1.79	1.13
1:G:523:PHE:CE1	1:G:1011:PRO:CD	2.32	1.12
3:i:357:LEU:HD11	3:i:358:LEU:CD1	1.79	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:357:LEU:HD11	3:h:358:LEU:CD1	1.79	1.12
3:f:357:LEU:HD11	3:f:358:LEU:CD1	1.79	1.11
3:i:357:LEU:C	3:i:357:LEU:HD12	1.77	1.08
3:h:357:LEU:C	3:h:357:LEU:HD12	1.77	1.08
3:e:357:LEU:C	3:e:357:LEU:HD12	1.77	1.08
3:f:357:LEU:C	3:f:357:LEU:HD12	1.77	1.06
3:f:357:LEU:HD11	3:f:358:LEU:HD12	1.26	1.05
3:e:357:LEU:HD12	3:e:358:LEU:HD12	1.36	1.04
3:f:357:LEU:HD12	3:f:358:LEU:HD12	1.36	1.04
4:o:115:LEU:CG	4:o:116:PRO:HD2	1.86	1.04
1:z:199:VAL:O	1:z:203:LYS:HB2	1.57	1.04
3:i:357:LEU:HD12	3:i:358:LEU:HD12	1.36	1.03
3:h:357:LEU:HD12	3:h:358:LEU:HD12	1.37	1.03
4:o:115:LEU:CD1	4:o:116:PRO:HD3	1.81	1.03
3:h:357:LEU:HD11	3:h:358:LEU:HD12	1.26	1.03
3:h:289:LYS:HG2	3:h:290:THR:H	1.23	1.02
3:h:283:GLU:OE2	3:h:296:THR:HG22	1.57	1.01
3:g:307:VAL:HG21	3:g:350:PHE:CE1	1.95	1.01
1:G:962:GLN:HE21	1:G:964:TYR:HB2	1.26	1.00
3:g:307:VAL:HB	3:g:343:SER:HB3	1.42	1.00
4:o:115:LEU:HG	4:o:116:PRO:HD2	1.42	0.98
1:B:778:ARG:HG3	1:B:779:ASN:H	1.28	0.98
3:e:357:LEU:CD1	3:e:358:LEU:CD1	2.40	0.97
3:g:310:ASP:HB3	3:g:357:LEU:CD1	1.93	0.97
1:G:535:PRO:CG	1:G:1005:MET:HE1	1.94	0.96
3:f:357:LEU:CD1	3:f:358:LEU:CD1	2.39	0.95
3:g:307:VAL:HG21	3:g:350:PHE:HE1	1.26	0.95
3:h:357:LEU:HD12	3:h:357:LEU:O	1.67	0.94
1:G:535:PRO:HG2	1:G:1005:MET:HE1	1.48	0.94
1:G:535:PRO:HB2	1:G:1005:MET:CE	1.97	0.93
3:f:357:LEU:HD12	3:f:357:LEU:O	1.67	0.93
3:e:357:LEU:HD12	3:e:357:LEU:O	1.67	0.93
4:o:115:LEU:HD12	4:o:116:PRO:HD3	0.93	0.93
3:i:357:LEU:HD12	3:i:357:LEU:O	1.67	0.93
2:c:28:THR:O	2:c:32:LEU:HB2	1.69	0.93
1:G:535:PRO:HB2	1:G:1005:MET:HE2	1.51	0.92
1:O:1310:ARG:HB2	1:O:1313:MET:HG2	1.52	0.91
3:e:172:LEU:HD12	3:e:173:ARG:N	1.84	0.91
1:G:523:PHE:CZ	1:G:1010:PRO:HA	2.05	0.91
3:i:357:LEU:CD1	3:i:358:LEU:CD1	2.39	0.90
4:o:115:LEU:CG	4:o:116:PRO:CD	2.45	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:509:ALA:HA	1:G:576:GLY:HA3	1.54	0.88
1:G:523:PHE:CZ	1:G:1009:ILE:O	2.25	0.88
3:h:120:GLN:OE1	3:h:121:LEU:N	2.05	0.88
3:h:357:LEU:CD1	3:h:358:LEU:CD1	2.40	0.88
1:G:421:MET:HE2	1:G:1355:CYS:HB3	1.57	0.87
3:g:157:THR:O	3:g:157:THR:HG22	1.71	0.87
3:f:307:VAL:HG21	3:f:350:PHE:CE1	2.10	0.87
1:S:882:HIS:HD2	1:S:884:LEU:H	1.23	0.87
1:R:18:ARG:CB	1:R:18:ARG:HH21	1.88	0.86
1:B:593:ILE:H	1:B:597:ASN:HD22	1.19	0.86
3:g:439:LEU:HD12	3:g:439:LEU:O	1.75	0.86
1:B:660:LEU:HD11	1:B:916:LEU:HD21	1.57	0.85
1:G:245:MET:HE1	1:G:255:ILE:HG23	1.59	0.85
3:e:439:LEU:HD12	3:e:439:LEU:O	1.75	0.85
1:N:420:ILE:HG22	1:N:1072:VAL:HG22	1.59	0.85
1:G:592:ARG:HA	1:G:1022:ARG:HH12	1.39	0.85
1:G:978:PRO:O	1:G:1009:ILE:HG23	1.75	0.85
3:h:289:LYS:HG2	3:h:290:THR:N	1.90	0.85
1:G:523:PHE:HZ	1:G:1009:ILE:O	1.56	0.84
3:g:310:ASP:HB3	3:g:357:LEU:HD11	1.59	0.84
2:H:91:TRP:HB2	2:I:54:ARG:HH21	1.44	0.83
1:M:65:GLN:HE22	3:f:290:THR:HG22	1.44	0.83
3:e:204:CYS:HB3	3:e:235:LEU:HD23	1.60	0.83
1:T:448:ASP:HB3	1:T:451:GLN:HE21	1.43	0.83
1:Q:1231:MET:HG2	1:Q:1310:ARG:HH21	1.44	0.82
1:T:502:CYS:SG	1:T:503:TYR:N	2.53	0.82
1:T:25:ILE:HG13	1:T:26:PRO:HD3	1.62	0.82
1:G:421:MET:HE3	1:G:1353:PRO:HG2	1.62	0.82
1:P:1073:ARG:HH21	1:P:1141:MET:HB2	1.45	0.81
3:e:357:LEU:CD1	3:e:357:LEU:C	2.52	0.81
4:j:28:GLY:H	4:j:74:ILE:HG23	1.45	0.81
3:i:204:CYS:HB3	3:i:235:LEU:HD23	1.60	0.81
1:B:682:ASN:HB3	1:B:959:MET:HE3	1.61	0.81
1:R:890:VAL:HG21	2:a:27:TYR:HE1	1.45	0.81
1:N:1081:GLN:NE2	1:N:1129:CYS:SG	2.53	0.81
1:P:1231:MET:SD	1:P:1310:ARG:NH1	2.54	0.81
1:G:87:LEU:HD21	1:G:196:LEU:HD22	1.61	0.81
1:A:869:ALA:HA	2:D:105:ARG:HH22	1.45	0.81
1:U:1196:ILE:HD11	1:B:224:ARG:HH21	1.43	0.81
1:B:81:ARG:HB2	1:B:84:GLU:HG2	1.62	0.81
1:G:808:ARG:HD3	2:L:84:ALA:HB3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:357:LEU:CD1	3:h:357:LEU:C	2.52	0.81
4:m:73:VAL:HG23	4:m:87:ILE:HD11	1.63	0.81
2:b:14:SER:HB3	2:b:53:ALA:HB1	1.63	0.80
1:U:384:LEU:HB3	1:U:391:LEU:HD11	1.63	0.80
1:N:802:ILE:O	1:N:953:TYR:OH	1.98	0.80
1:G:892:ASN:HB3	2:L:34:ARG:HH21	1.46	0.80
1:P:179:ARG:HD2	1:Q:112:GLN:HE22	1.45	0.80
4:o:115:LEU:HG	4:o:116:PRO:CD	2.09	0.80
1:M:637:ARG:NH1	1:M:961:TYR:O	2.15	0.80
1:G:205:PRO:HB2	1:G:1312:LEU:HD12	1.64	0.80
1:G:794:PHE:HB3	1:G:795:GLN:HE21	1.46	0.79
1:O:233:ASP:OD1	1:O:236:ARG:NH2	2.16	0.79
1:N:1080:GLU:HB2	1:N:1133:ALA:HB3	1.63	0.79
1:Q:245:MET:HG3	1:Q:1132:ALA:HB1	1.65	0.79
1:B:667:CYS:HA	1:B:903:LEU:HD21	1.65	0.79
1:U:25:ILE:HB	1:U:26:PRO:HD3	1.65	0.79
1:E:705:ASN:OD1	1:F:677:ARG:NH2	2.15	0.79
1:z:308:ASP:HB2	1:z:384:LEU:HB2	1.65	0.79
3:f:289:LYS:HG2	3:f:290:THR:H	1.48	0.78
1:M:927:ILE:HD11	1:M:953:TYR:HB2	1.66	0.78
1:P:1139:THR:HG22	1:P:1200:GLN:HB3	1.63	0.78
1:C:52:LYS:HE2	1:C:54:ILE:HD11	1.65	0.78
1:G:962:GLN:NE2	1:G:964:TYR:HB2	1.98	0.78
1:T:807:VAL:HG23	1:T:808:ARG:HG2	1.64	0.78
1:B:778:ARG:HG3	1:B:779:ASN:N	1.99	0.78
1:E:725:THR:OG1	1:E:740:ASN:ND2	2.17	0.78
4:s:100:ASN:HD21	4:s:106:LEU:HD13	1.47	0.78
4:p:266:ARG:HH21	4:p:267:ARG:HB3	1.49	0.78
4:n:10:LEU:HD11	4:n:39:ARG:HE	1.50	0.77
1:M:24:ASN:HB2	1:M:27:ALA:HB2	1.66	0.77
3:h:204:CYS:HB3	3:h:235:LEU:HD23	1.66	0.77
3:i:357:LEU:CD1	3:i:357:LEU:C	2.52	0.77
3:i:480:GLU:O	4:s:283:ARG:NH2	2.16	0.77
1:N:886:ALA:HA	1:N:889:LEU:HD23	1.66	0.77
1:F:1205:GLU:HG2	1:F:1291:PRO:HD2	1.66	0.77
4:k:107:CYS:SG	4:k:181:ASN:ND2	2.58	0.77
1:G:978:PRO:O	1:G:1010:PRO:HD2	1.85	0.77
4:k:153:VAL:HG23	4:k:205:VAL:HG12	1.67	0.77
1:P:882:HIS:HD2	1:P:884:LEU:H	1.30	0.77
1:S:1225:ARG:NH1	1:S:1227:ARG:O	2.18	0.77
1:T:851:ARG:NH1	1:T:971:GLY:O	2.16	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:711:LEU:HD22	1:G:637:ARG:HH22	1.48	0.77
3:f:357:LEU:CD1	3:f:357:LEU:C	2.52	0.77
4:o:78:ILE:HG22	4:o:80:GLY:H	1.49	0.77
3:i:357:LEU:HD11	3:i:358:LEU:HD11	1.66	0.77
1:U:45:ARG:NE	1:U:45:ARG:HA	2.00	0.77
1:B:1200:GLN:NE2	1:B:1328:TYR:O	2.17	0.77
1:E:807:VAL:HG11	1:F:966:GLU:HG2	1.65	0.77
1:U:746:ASP:OD2	1:U:823:ARG:NH2	2.18	0.76
1:U:1070:THR:HG23	1:U:1209:MET:HG3	1.66	0.76
1:C:668:ILE:HD12	1:C:699:LEU:HD21	1.67	0.76
3:f:357:LEU:HD11	3:f:358:LEU:HD11	1.66	0.76
1:Q:520:MET:HE1	1:Q:993:ARG:HB2	1.68	0.76
2:d:9:VAL:HB	2:d:15:ASN:HD21	1.49	0.76
3:g:204:CYS:HB3	3:g:235:LEU:HD23	1.66	0.76
1:z:289:LEU:HD13	1:z:1084:TYR:HB2	1.68	0.76
1:G:926:ALA:CB	1:G:1012:PHE:CE2	2.68	0.76
4:o:148:ILE:HG13	4:o:187:LEU:HD22	1.67	0.76
1:z:306:ILE:HA	1:z:385:VAL:HG12	1.67	0.76
1:U:475:MET:HA	1:U:478:ILE:HG22	1.66	0.76
2:H:43:GLN:HG3	2:H:46:HIS:HB2	1.66	0.76
1:G:649:VAL:HG11	1:G:859:LEU:HD11	1.67	0.76
4:j:65:ALA:O	4:j:69:ARG:N	2.18	0.76
1:G:468:GLN:O	1:G:1143:ASN:ND2	2.18	0.76
1:z:236:ARG:NH2	1:z:1351:TYR:OH	2.18	0.76
1:z:1223:ASN:HD22	1:z:1225:ARG:H	1.34	0.76
4:j:47:LEU:HA	4:j:50:TYR:HD2	1.50	0.76
1:z:1139:THR:HG23	1:z:1141:MET:H	1.49	0.76
1:O:802:ILE:O	1:O:953:TYR:OH	2.04	0.76
1:C:274:ARG:NH2	1:C:275:ILE:O	2.18	0.76
1:T:725:THR:HB	1:T:740:ASN:HD22	1.50	0.76
1:E:597:ASN:HB3	1:E:1022:ARG:HD2	1.68	0.76
3:h:231:MET:HG3	3:h:235:LEU:HD12	1.68	0.76
3:f:307:VAL:HG21	3:f:350:PHE:HE1	1.51	0.76
1:M:420:ILE:HG22	1:M:1072:VAL:HG22	1.68	0.75
3:g:151:MET:SD	3:g:172:LEU:HD21	2.25	0.75
1:P:450:ARG:NH1	1:Q:431:MET:SD	2.60	0.75
1:F:239:CYS:HB2	1:F:1387:PRO:HG3	1.67	0.75
1:O:1303:THR:HA	1:O:1306:ASN:HD22	1.51	0.75
1:U:407:VAL:HG11	1:B:116:ILE:HD12	1.68	0.75
3:i:324:VAL:HG22	3:i:437:TYR:HB3	1.68	0.75
1:U:683:ASN:HD21	1:U:754:TRP:HE1	1.33	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i:151:MET:SD	3:i:172:LEU:HD21	2.25	0.75
1:U:1114:GLN:HG2	1:U:1116:ARG:HE	1.49	0.75
2:d:96:VAL:HG21	1:B:896:VAL:HG11	1.66	0.75
1:U:1189:ARG:HH22	3:e:312:HIS:CD2	2.04	0.75
2:b:71:ASN:OD1	2:b:72:HIS:ND1	2.21	0.74
1:U:661:LEU:HD11	1:U:694:LEU:HD21	1.69	0.74
1:N:637:ARG:O	1:N:962:GLN:NE2	2.20	0.74
1:R:237:ARG:NH1	1:R:241:ASP:OD2	2.19	0.74
1:T:290:VAL:HG12	1:T:411:LEU:HD11	1.70	0.74
1:P:414:ASN:HB2	1:P:1340:THR:HG22	1.70	0.74
1:U:49:ASP:OD1	1:U:50:PHE:N	2.19	0.74
2:d:93:ARG:HE	1:B:892:ASN:HD21	1.33	0.74
1:G:523:PHE:CE2	1:G:1010:PRO:HA	2.22	0.74
3:h:357:LEU:HD11	3:h:358:LEU:HD11	1.67	0.74
1:U:688:MET:HA	1:U:691:THR:HG22	1.69	0.74
1:E:792:HIS:HA	1:E:920:MET:HE1	1.69	0.74
1:N:658:CYS:HA	1:N:661:LEU:HD13	1.69	0.74
1:A:851:ARG:NH2	1:A:971:GLY:O	2.21	0.74
1:A:990:ALA:HA	1:A:995:MET:HG2	1.68	0.74
1:G:1090:GLU:HG3	1:G:1120:ASP:HA	1.67	0.74
1:N:911:LEU:HD13	2:W:69:ARG:HG3	1.68	0.74
1:A:1171:ALA:HB1	1:A:1177:ASN:HD22	1.53	0.74
2:W:43:GLN:HB3	2:W:46:HIS:HB3	1.69	0.74
1:U:979:VAL:HG12	1:U:1013:LEU:HD13	1.68	0.74
4:q:244:ASN:HD21	4:q:246:VAL:HB	1.53	0.74
3:h:357:LEU:CD1	3:h:357:LEU:O	2.36	0.74
1:z:1277:ASN:HB3	1:z:1280:TYR:HB2	1.69	0.74
1:A:1320:SER:O	1:A:1332:ARG:NH1	2.19	0.73
3:h:249:HIS:HB3	3:h:430:LEU:HD23	1.70	0.73
1:U:550:PRO:HG3	1:U:1259:ALA:HB2	1.70	0.73
3:f:226:TYR:HD2	3:f:231:MET:HE2	1.53	0.73
3:g:324:VAL:HG12	3:g:437:TYR:HB3	1.68	0.73
1:F:245:MET:HE1	1:F:255:ILE:HG23	1.69	0.73
3:e:357:LEU:CD1	3:e:357:LEU:O	2.36	0.73
3:e:357:LEU:HD11	3:e:358:LEU:HD11	1.67	0.73
3:f:357:LEU:CD1	3:f:357:LEU:O	2.36	0.73
3:g:226:TYR:HD2	3:g:231:MET:HE2	1.53	0.73
1:S:696:ASN:O	1:T:674:GLN:NE2	2.22	0.73
1:B:778:ARG:CG	1:B:779:ASN:H	2.00	0.73
1:C:770:LEU:O	1:C:946:ARG:NH2	2.21	0.73
1:G:332:VAL:HG23	1:G:333:MET:HG2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i:226:TYR:HD2	3:i:231:MET:HE2	1.53	0.73
3:i:357:LEU:CD1	3:i:357:LEU:O	2.36	0.73
2:V:14:SER:O	2:V:17:THR:OG1	2.06	0.73
1:B:1073:ARG:HH21	1:B:1141:MET:HB3	1.53	0.73
1:G:536:HIS:HE1	1:G:554:ARG:HD3	1.54	0.73
4:r:203:THR:O	4:r:207:ASN:ND2	2.22	0.73
1:G:833:TYR:HA	1:G:837:ILE:HD12	1.71	0.73
3:e:226:TYR:HD2	3:e:231:MET:HE2	1.53	0.73
4:j:60:LEU:HD21	4:j:204:LEU:HB3	1.70	0.73
1:B:1146:GLN:HE21	1:B:1147:ASN:H	1.37	0.73
1:C:231:LEU:HD11	1:C:1232:LEU:HD13	1.69	0.73
1:R:18:ARG:HH21	1:R:18:ARG:HB3	1.52	0.73
3:g:310:ASP:HB3	3:g:357:LEU:HD13	1.68	0.73
4:r:126:ARG:NH1	4:r:133:GLU:OE1	2.22	0.73
1:N:909:ALA:O	1:N:912:THR:OG1	2.06	0.73
1:P:660:LEU:HD23	1:P:663:LEU:HD23	1.70	0.73
1:F:1029:VAL:HG12	1:F:1043:LEU:HD21	1.70	0.73
4:j:27:GLU:HB2	4:j:310:ARG:HH22	1.52	0.73
1:A:675:SER:O	1:A:677:ARG:NH1	2.22	0.72
1:U:320:MET:HG3	1:U:322:LEU:H	1.54	0.72
1:M:1231:MET:SD	1:M:1310:ARG:NH1	2.62	0.72
1:S:996:THR:HG23	1:S:999:ARG:H	1.52	0.72
1:F:721:ILE:HD11	1:F:1044:LEU:HD11	1.71	0.72
3:e:448:VAL:HG23	3:e:448:VAL:O	1.88	0.72
1:Q:18:ARG:O	1:Q:20:ALA:C	2.33	0.72
1:A:927:ILE:HD11	1:A:953:TYR:HB2	1.72	0.72
1:R:500:ARG:NH1	1:R:501:GLN:O	2.23	0.72
4:o:291:ARG:HH21	4:o:292:ALA:HB3	1.54	0.72
3:f:249:HIS:HB3	3:f:430:LEU:HD23	1.71	0.72
1:B:1252:ASP:OD1	1:B:1254:ALA:N	2.22	0.72
4:p:305:VAL:HG21	4:p:311:THR:HG22	1.72	0.72
1:M:926:ALA:HB1	1:M:1013:LEU:HD21	1.71	0.72
1:U:537:TRP:O	1:U:1023:GLN:NE2	2.20	0.72
1:U:1232:LEU:HD22	1:U:1311:LEU:HD12	1.70	0.72
1:F:1305:CYS:SG	1:F:1306:ASN:N	2.62	0.72
1:G:398:GLU:O	1:G:403:GLN:NE2	2.23	0.72
1:G:766:ALA:HB1	1:G:769:ARG:HD3	1.71	0.72
2:L:13:PRO:HA	2:L:45:GLY:HA2	1.70	0.72
4:k:52:ILE:HD12	4:k:61:SER:HB3	1.71	0.72
4:l:126:ARG:NH1	4:l:133:GLU:OE1	2.22	0.72
1:M:1301:VAL:H	1:M:1304:ASN:HD21	1.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:534:HIS:HB3	1:N:1005:MET:HE2	1.71	0.72
1:C:304:LEU:HB3	1:C:385:VAL:HG21	1.69	0.72
1:F:688:MET:O	1:F:692:THR:OG1	2.07	0.72
4:n:26:CYS:SG	4:n:29:LYS:NZ	2.59	0.72
1:Q:214:ASN:ND2	1:Q:265:CYS:O	2.23	0.72
1:U:782:GLN:O	1:U:801:LEU:N	2.21	0.72
1:F:1073:ARG:NH1	1:F:1142:GLY:O	2.22	0.71
1:G:1152:ARG:HH22	1:G:1182:LEU:HB3	1.53	0.71
1:Q:675:SER:HB3	1:Q:677:ARG:HD2	1.73	0.71
1:S:1227:ARG:NH1	1:S:1244:ILE:O	2.23	0.71
1:F:300:LEU:HD11	1:F:306:ILE:HD11	1.71	0.71
4:o:73:VAL:HG13	4:o:87:ILE:HG13	1.71	0.71
3:g:452:ARG:HG2	3:g:465:ILE:HD12	1.71	0.71
4:l:52:ILE:HG13	4:l:53:ASN:H	1.55	0.71
1:S:247:ARG:NH2	1:S:1387:PRO:O	2.24	0.71
1:F:475:MET:HE1	1:F:1060:ARG:HG3	1.72	0.71
1:A:1035:ASP:OD2	1:A:1038:THR:OG1	2.08	0.71
1:S:72:THR:HG22	1:T:108:GLN:HB3	1.71	0.71
1:U:140:SER:HA	1:U:1115:PRO:HA	1.71	0.71
1:U:384:LEU:HD13	1:U:391:LEU:HD21	1.72	0.71
1:G:211:SER:O	1:G:215:LYS:NZ	2.22	0.71
1:A:966:GLU:OE2	1:Q:808:ARG:NH2	2.24	0.71
1:R:595:ASN:N	1:R:1048:PHE:O	2.23	0.71
1:U:507:TYR:OH	1:U:577:PRO:O	2.05	0.71
1:P:743:LEU:HD23	1:P:831:ILE:HD13	1.72	0.71
1:U:156:SER:O	1:U:170:ARG:NH2	2.23	0.71
1:U:207:LEU:HD22	1:U:1130:ALA:HA	1.73	0.71
4:o:271:TYR:HA	4:o:274:ILE:HD12	1.71	0.71
4:s:107:CYS:SG	4:s:108:ASN:N	2.64	0.71
1:O:1307:THR:HG21	1:O:1310:ARG:HH11	1.55	0.71
1:P:1231:MET:HE1	1:P:1314:GLU:HG3	1.72	0.71
1:S:29:ILE:HG13	1:S:30:ILE:H	1.54	0.71
1:T:1114:GLN:OE1	1:T:1116:ARG:NH2	2.24	0.71
1:B:150:GLU:OE2	4:l:76:ARG:NH1	2.24	0.71
1:A:507:TYR:OH	1:A:577:PRO:O	2.08	0.71
1:B:289:LEU:HD13	1:B:1084:TYR:HB2	1.72	0.71
1:F:285:VAL:O	1:F:1087:ARG:NH1	2.24	0.71
1:P:433:ARG:HD3	1:P:1378:ALA:HB2	1.73	0.70
1:F:212:PRO:HG3	1:F:237:ARG:HD2	1.73	0.70
1:R:275:ILE:HD13	1:R:375:PRO:HB2	1.70	0.70
1:R:326:ASN:HB3	1:R:340:MET:HG3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1364:THR:HG22	1:E:1365:ALA:H	1.55	0.70
1:G:523:PHE:CE1	1:G:1011:PRO:CG	2.74	0.70
1:G:961:TYR:HB2	1:G:988:HIS:CD2	2.27	0.70
1:G:961:TYR:OH	1:G:991:SER:OG	2.07	0.70
3:h:480:GLU:O	4:r:283:ARG:NH2	2.24	0.70
1:T:1129:CYS:SG	1:T:1341:GLN:NE2	2.64	0.70
1:C:433:ARG:HD2	1:C:1378:ALA:HB2	1.72	0.70
4:j:117:PRO:HG3	4:j:137:PRO:HA	1.72	0.70
1:N:1219:ARG:NH1	1:N:1374:GLU:OE1	2.25	0.70
1:P:1080:GLU:HB2	1:P:1133:ALA:HB3	1.73	0.70
4:r:87:ILE:O	4:r:315:GLN:NE2	2.24	0.70
1:O:83:LEU:HD11	1:O:317:TYR:HE1	1.57	0.70
1:R:512:THR:OG1	1:R:513:GLU:OE1	2.09	0.70
1:R:924:THR:OG1	1:R:954:HIS:O	2.08	0.70
1:S:1171:ALA:HB1	1:S:1177:ASN:HD22	1.56	0.70
1:F:637:ARG:NH1	1:F:961:TYR:O	2.24	0.70
3:f:307:VAL:HB	3:f:343:SER:HB2	1.71	0.70
3:i:318:LEU:HD11	3:i:442:THR:HG23	1.73	0.70
4:n:111:TYR:OH	4:n:295:ARG:NH1	2.25	0.70
1:T:866:GLU:OE1	2:c:71:ASN:ND2	2.23	0.70
2:I:10:VAL:HG13	2:I:11:PHE:HD1	1.55	0.70
2:K:22:GLU:O	2:K:67:ARG:NH1	2.23	0.70
4:o:29:LYS:NZ	4:o:101:THR:OG1	2.24	0.70
1:N:755:ASP:OD1	1:N:756:CYS:N	2.24	0.70
1:O:335:LYS:NZ	1:R:22:LEU:O	2.24	0.70
1:B:1373:ASP:H	1:B:1381:LEU:HD13	1.55	0.70
1:C:1017:HIS:O	1:C:1022:ARG:NH2	2.25	0.70
2:L:82:MET:SD	2:L:100:ARG:NH2	2.64	0.70
1:O:849:GLY:N	1:O:975:TYR:O	2.20	0.70
1:U:1125:TYR:OH	1:U:1313:MET:SD	2.50	0.70
1:E:1017:HIS:O	1:E:1022:ARG:NH2	2.25	0.70
1:P:1304:ASN:O	1:P:1310:ARG:NH2	2.24	0.70
1:B:939:THR:HG23	1:B:941:THR:H	1.57	0.70
1:F:224:ARG:HD2	1:F:1234:MET:HE1	1.71	0.70
1:O:108:GLN:HG2	1:O:133:VAL:HG22	1.72	0.70
1:S:320:MET:HE3	1:S:338:ARG:HD2	1.73	0.70
1:F:766:ALA:HA	1:F:769:ARG:HB2	1.73	0.70
1:M:695:GLY:O	1:M:708:ARG:NH2	2.25	0.69
1:O:683:ASN:HD21	1:O:685:HIS:HB2	1.55	0.69
1:P:1200:GLN:HE21	1:P:1329:GLN:HA	1.56	0.69
1:A:653:ASN:HD21	1:A:804:GLY:HA3	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:98:LEU:HD13	1:E:896:VAL:HG13	1.73	0.69
3:f:441:GLY:O	3:f:442:THR:HG23	1.90	0.69
3:h:283:GLU:OE2	3:h:296:THR:CG2	2.38	0.69
4:s:101:THR:HG22	4:s:139:THR:HG22	1.74	0.69
1:S:1301:VAL:O	1:S:1304:ASN:ND2	2.25	0.69
1:F:284:GLN:HB3	1:F:1087:ARG:HH12	1.55	0.69
1:F:490:LEU:HG	1:F:494:ARG:HH12	1.57	0.69
1:G:535:PRO:CB	1:G:1005:MET:CE	2.70	0.69
1:U:633:THR:HG22	1:U:677:ARG:HB3	1.73	0.69
3:f:289:LYS:HG2	3:f:290:THR:N	2.07	0.69
1:Q:1010:PRO:HD2	1:Q:1013:LEU:HD12	1.73	0.69
3:f:157:THR:HG22	3:f:157:THR:O	1.93	0.69
3:f:331:ARG:HG2	3:f:332:GLN:OE1	1.91	0.69
4:m:75:THR:HG22	4:m:76:ARG:H	1.57	0.69
1:A:729:GLU:OE1	1:A:1060:ARG:NH2	2.25	0.69
1:N:1080:GLU:OE2	1:N:1135:ARG:NH1	2.25	0.69
1:C:502:CYS:SG	1:C:503:TYR:N	2.65	0.69
1:F:507:TYR:OH	1:F:577:PRO:O	2.08	0.69
1:z:1241:ILE:HA	1:z:1244:ILE:HG12	1.74	0.69
1:T:52:LYS:HE3	1:T:54:ILE:HD11	1.74	0.69
1:U:1058:GLN:HE22	1:U:1065:PRO:HB3	1.56	0.69
1:B:148:ALA:HA	1:B:1107:GLY:HA3	1.74	0.69
1:G:926:ALA:HB2	1:G:1012:PHE:CE2	2.28	0.69
1:M:52:LYS:HE3	1:M:54:ILE:HD11	1.75	0.69
1:M:489:THR:O	1:M:493:LEU:HB2	1.92	0.69
1:O:29:ILE:HG13	1:O:30:ILE:H	1.57	0.69
1:P:203:LYS:NZ	1:P:1089:SER:OG	2.25	0.69
1:P:1364:THR:HG22	1:P:1365:ALA:H	1.58	0.69
1:Q:615:LEU:HD22	1:Q:724:PHE:HE2	1.57	0.69
1:R:1225:ARG:NH2	1:R:1245:MET:O	2.25	0.69
1:T:860:GLN:HE22	2:c:58:THR:HG23	1.58	0.69
1:B:450:ARG:NH2	1:C:431:MET:O	2.25	0.69
1:B:1364:THR:HG21	1:B:1369:GLU:HB2	1.75	0.69
1:G:523:PHE:CE1	1:G:1010:PRO:HA	2.27	0.69
1:G:593:ILE:HG23	1:G:594:ILE:HG23	1.75	0.69
4:o:29:LYS:CD	4:o:136:PHE:CD2	2.75	0.69
1:z:1092:TYR:OH	1:z:1116:ARG:NH1	2.26	0.69
1:z:1222:CYS:HA	1:z:1234:MET:HB3	1.72	0.69
1:S:477:THR:HG21	1:S:1206:PHE:HB2	1.73	0.69
1:U:1219:ARG:NH1	1:U:1381:LEU:O	2.25	0.69
1:E:637:ARG:NH1	1:E:961:TYR:O	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:o:145:MET:HA	4:o:148:ILE:HG22	1.75	0.69
4:m:155:ARG:O	4:m:159:ARG:NH1	2.26	0.69
1:P:655:ARG:HG2	2:Y:83:PHE:HE2	1.56	0.69
2:Z:28:THR:O	2:Z:32:LEU:N	2.23	0.69
1:U:630:VAL:O	1:U:633:THR:OG1	2.07	0.69
2:I:9:VAL:HG11	2:I:16:PRO:HB3	1.73	0.69
1:E:1305:CYS:SG	1:E:1306:ASN:N	2.65	0.69
1:N:688:MET:O	1:N:692:THR:OG1	2.08	0.68
1:O:653:ASN:ND2	1:O:656:ASN:OD1	2.26	0.68
1:E:1175:ARG:NH1	1:E:1328:TYR:OH	2.25	0.68
1:G:522:ARG:NH2	1:G:578:GLN:O	2.26	0.68
1:U:1051:THR:H	1:U:1054:SER:HG	1.39	0.68
2:H:16:PRO:HB3	2:H:20:SER:HB3	1.75	0.68
1:E:1034:SER:OG	1:E:1038:THR:OG1	2.11	0.68
1:E:1321:GLN:HA	1:E:1332:ARG:HD2	1.74	0.68
3:f:289:LYS:CG	3:f:290:THR:H	2.05	0.68
1:N:805:ARG:NH1	1:N:919:ASP:OD1	2.26	0.68
1:Q:509:ALA:N	1:Q:1011:PRO:O	2.26	0.68
1:G:1147:ASN:OD1	1:G:1148:LEU:N	2.26	0.68
3:g:162:GLY:N	4:q:263:ASP:OD2	2.21	0.68
1:N:203:LYS:NZ	1:N:1126:THR:OG1	2.27	0.68
2:c:105:ARG:NH1	2:c:106:ILE:O	2.26	0.68
1:G:512:THR:O	1:G:797:ARG:NH2	2.26	0.68
4:r:151:LYS:NZ	4:r:177:VAL:O	2.25	0.68
1:M:1227:ARG:NH1	1:M:1244:ILE:O	2.26	0.68
1:N:55:ARG:HG2	1:N:56:SER:H	1.58	0.68
1:R:859:LEU:HA	1:R:894:LEU:HD13	1.74	0.68
1:F:510:GLU:OE1	1:F:774:ARG:NH2	2.26	0.68
1:U:778:ARG:HG3	1:U:799:ASN:HD22	1.57	0.68
4:o:176:ASP:HB3	4:o:187:LEU:HG	1.75	0.68
1:F:962:GLN:HG3	1:F:964:TYR:H	1.57	0.68
1:O:609:ASP:OD2	1:O:1034:SER:OG	2.12	0.68
1:B:865:PRO:HG3	1:B:888:GLN:HE21	1.59	0.68
2:W:101:THR:OG1	1:P:899:HIS:NE2	2.27	0.68
1:F:434:TYR:OH	1:F:436:ARG:NH2	2.22	0.68
2:K:8:ARG:HH12	2:K:24:ILE:HG13	1.59	0.68
1:G:1208:ALA:O	1:G:1262:ASN:ND2	2.23	0.68
3:h:289:LYS:CG	3:h:290:THR:H	2.05	0.68
1:N:958:MET:HB3	1:N:988:HIS:HE1	1.59	0.68
1:O:619:ARG:NH1	1:O:723:ASP:OD2	2.27	0.68
1:Q:550:PRO:HG3	1:Q:1259:ALA:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:885:HIS:CD2	1:Q:887:HIS:H	2.11	0.68
1:Q:885:HIS:HD2	1:Q:887:HIS:H	1.42	0.68
2:H:89:MET:HE3	2:I:33:ILE:HG22	1.74	0.68
1:z:1058:GLN:HB3	1:z:1063:PHE:HB3	1.75	0.68
1:A:312:ASP:OD2	1:A:377:ASN:ND2	2.26	0.67
1:R:433:ARG:HD2	1:R:1378:ALA:HB2	1.75	0.67
1:U:853:ASP:O	1:U:854:ARG:NE	2.27	0.67
1:C:235:LYS:HE2	1:C:1347:PHE:HB3	1.77	0.67
1:U:754:TRP:HA	1:U:954:HIS:CD2	2.29	0.67
1:B:1227:ARG:NH1	1:B:1244:ILE:O	2.27	0.67
2:K:21:VAL:HG11	2:K:60:GLY:HA3	1.76	0.67
1:G:928:LEU:HD21	1:G:1012:PHE:O	1.95	0.67
4:p:8:GLU:OE2	4:p:38:HIS:NE2	2.27	0.67
1:R:1114:GLN:OE1	1:R:1116:ARG:NH2	2.26	0.67
1:R:98:GLU:HG2	1:R:99:LEU:H	1.60	0.67
1:B:514:ASP:HA	1:B:923:ARG:HH22	1.59	0.67
1:C:245:MET:HB2	1:C:1132:ALA:HB1	1.76	0.67
1:G:488:ALA:HB3	1:G:1274:ARG:HE	1.60	0.67
1:G:913:LEU:HD12	1:G:916:LEU:HD22	1.77	0.67
4:r:8:GLU:OE1	4:r:38:HIS:NE2	2.27	0.67
1:M:586:THR:HG22	1:M:587:VAL:H	1.59	0.67
1:M:867:ILE:HD11	2:V:105:ARG:HE	1.60	0.67
1:O:1294:LYS:NZ	1:O:1344:CYS:SG	2.68	0.67
1:R:880:PRO:O	1:R:888:GLN:NE2	2.27	0.67
1:R:1234:MET:HE2	1:R:1236:ASP:HB2	1.77	0.67
1:U:1225:ARG:NH2	1:U:1245:MET:O	2.28	0.67
1:F:288:VAL:HG23	1:F:393:PHE:HB2	1.76	0.67
1:G:660:LEU:HD21	1:G:916:LEU:HD11	1.75	0.67
3:i:324:VAL:HG22	3:i:437:TYR:CB	2.24	0.67
1:M:1081:GLN:OE1	1:M:1341:GLN:NE2	2.26	0.67
1:P:212:PRO:HG3	1:P:237:ARG:HE	1.59	0.67
1:U:1082:LEU:HB3	1:U:1130:ALA:HB3	1.75	0.67
1:B:960:ALA:O	1:B:962:GLN:NE2	2.28	0.67
1:C:1080:GLU:HB2	1:C:1133:ALA:HB3	1.75	0.67
1:F:1179:THR:HG22	1:F:1181:PRO:HD2	1.77	0.67
1:G:245:MET:HG3	1:G:1132:ALA:HB1	1.77	0.67
3:g:174:ASN:OD1	3:g:237:ARG:NH1	2.28	0.67
3:i:191:LEU:HD21	3:i:271:LEU:HD12	1.77	0.67
2:D:22:GLU:HA	2:D:64:SER:HB2	1.77	0.67
1:P:515:THR:HA	1:P:518:VAL:HG22	1.75	0.67
1:P:539:ASN:O	1:P:554:ARG:NH1	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:669:ARG:NH1	1:S:698:GLU:O	2.27	0.67
1:U:192:THR:HG22	1:U:1116:ARG:HH12	1.60	0.67
1:U:1285:ALA:HB2	4:o:53:ASN:HD21	1.59	0.67
1:G:149:SER:HA	1:G:152:LEU:HG	1.77	0.67
4:o:29:LYS:HD3	4:o:136:PHE:CD2	2.30	0.67
3:i:483:TYR:HB2	4:s:206:LEU:HD21	1.76	0.67
1:P:708:ARG:NH2	1:Q:632:ASP:OD1	2.27	0.67
1:R:683:ASN:OD1	1:R:685:HIS:N	2.27	0.67
1:F:420:ILE:HG22	1:F:1072:VAL:HG12	1.75	0.67
3:e:476:ASN:H	4:j:111:TYR:HE2	1.40	0.67
1:A:864:VAL:O	2:D:27:TYR:OH	2.12	0.67
1:O:926:ALA:HB1	1:O:1013:LEU:HD21	1.77	0.67
1:Q:1165:SER:O	1:Q:1169:ILE:HG12	1.96	0.67
1:B:47:ILE:HG13	1:B:48:PHE:HD1	1.59	0.67
1:E:119:ASP:OD1	1:E:120:GLY:N	2.28	0.67
1:E:1301:VAL:HA	1:E:1304:ASN:HD22	1.59	0.67
1:E:1332:ARG:HH21	1:E:1336:SER:HB2	1.59	0.67
4:s:294:LEU:HB3	4:s:313:VAL:HG11	1.77	0.67
1:S:808:ARG:NH2	1:T:966:GLU:OE2	2.26	0.66
1:B:1144:THR:OG1	1:B:1175:ARG:NH2	2.29	0.66
1:C:764:GLU:O	1:C:767:ARG:NH1	2.27	0.66
1:A:794:PHE:O	1:A:795:GLN:NE2	2.28	0.66
1:N:60:SER:HA	3:h:292:THR:HG21	1.78	0.66
1:T:494:ARG:NH2	1:T:587:VAL:O	2.23	0.66
1:E:894:LEU:HA	1:E:897:TYR:HD2	1.59	0.66
1:G:93:CYS:HA	1:G:1092:TYR:HB3	1.75	0.66
3:e:174:ASN:OD1	3:e:237:ARG:NH1	2.28	0.66
3:f:174:ASN:OD1	3:f:237:ARG:NH1	2.28	0.66
3:i:174:ASN:OD1	3:i:237:ARG:NH1	2.28	0.66
1:M:55:ARG:HH21	1:S:126:GLN:HB2	1.59	0.66
2:X:12:ASP:OD2	2:X:15:ASN:ND2	2.28	0.66
1:P:1205:GLU:HG2	1:P:1291:PRO:HD2	1.77	0.66
4:j:59:THR:HA	4:j:62:LEU:HB2	1.76	0.66
4:r:9:VAL:HB	4:r:82:LEU:HB3	1.77	0.66
1:O:1225:ARG:NH1	1:O:1227:ARG:O	2.29	0.66
1:P:808:ARG:HH12	2:Y:84:ALA:HB3	1.60	0.66
1:P:1180:GLU:HG3	1:P:1181:PRO:HD3	1.77	0.66
2:b:29:PRO:HA	2:b:32:LEU:HB3	1.77	0.66
1:F:563:PHE:O	1:F:592:ARG:NH1	2.29	0.66
4:k:111:TYR:OH	4:k:295:ARG:NH1	2.27	0.66
4:l:111:TYR:OH	4:l:295:ARG:NH1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:285:VAL:O	1:z:1087:ARG:NH1	2.28	0.66
1:N:867:ILE:HG23	2:W:105:ARG:HH21	1.60	0.66
1:T:83:LEU:HD21	1:T:317:TYR:HE1	1.61	0.66
1:C:655:ARG:HG3	1:C:805:ARG:HD3	1.77	0.66
1:C:1189:ARG:NH1	4:p:181:ASN:OD1	2.28	0.66
1:G:913:LEU:HD23	1:G:914:GLN:HE22	1.61	0.66
1:z:1146:GLN:NE2	1:z:1292:CYS:SG	2.68	0.66
1:P:770:LEU:O	1:P:946:ARG:NH2	2.27	0.66
1:S:1219:ARG:NH1	1:S:1374:GLU:OE1	2.29	0.66
1:U:864:VAL:HG11	1:U:911:LEU:HD21	1.76	0.66
1:U:1098:GLN:HB3	1:U:1113:THR:HB	1.77	0.66
1:G:299:LEU:HD23	1:G:304:LEU:HD11	1.78	0.66
1:A:195:GLN:OE1	1:A:1092:TYR:OH	2.14	0.66
1:P:1227:ARG:NH1	1:P:1244:ILE:O	2.27	0.66
1:R:1333:PRO:HG2	1:R:1336:SER:HB3	1.78	0.66
1:S:745:ASP:O	1:S:830:LYS:NZ	2.28	0.66
1:T:500:ARG:NH1	1:T:503:TYR:OH	2.29	0.66
1:B:222:LEU:HD21	1:B:230:LEU:HD13	1.76	0.66
1:B:822:ASP:OD1	1:B:823:ARG:NH1	2.28	0.66
1:B:1358:ASP:HB3	1:B:1361:MET:HG3	1.76	0.66
2:D:12:ASP:HB2	2:D:15:ASN:ND2	2.11	0.66
1:N:883:PRO:O	1:N:895:ASN:ND2	2.29	0.66
1:O:41:VAL:HG11	1:C:132:MET:HE1	1.77	0.66
1:P:915:GLU:OE2	2:Y:79:ARG:NH1	2.28	0.66
1:C:939:THR:H	1:C:942:THR:HG22	1.59	0.66
1:E:273:SER:O	1:E:274:ARG:NE	2.28	0.66
1:G:515:THR:HG1	1:G:975:TYR:HH	1.40	0.66
4:r:217:LEU:HD13	4:r:220:LEU:HD12	1.77	0.66
1:M:24:ASN:ND2	1:O:331:LEU:O	2.29	0.66
1:M:637:ARG:O	1:M:962:GLN:NE2	2.29	0.66
1:N:907:GLY:HA2	1:N:910:LEU:HB2	1.78	0.66
1:O:1073:ARG:HH21	1:O:1141:MET:HB3	1.61	0.66
1:Q:675:SER:O	1:Q:677:ARG:NH1	2.28	0.66
1:U:151:ALA:HA	1:U:154:LEU:HG	1.77	0.66
1:F:938:ALA:HB1	1:F:1158:LEU:HD12	1.77	0.66
3:e:120:GLN:HG2	4:j:314:ILE:HD12	1.78	0.66
3:h:174:ASN:OD1	3:h:237:ARG:NH1	2.28	0.66
1:N:917:MET:HG3	1:N:920:MET:HE3	1.76	0.66
1:O:1114:GLN:OE1	1:O:1116:ARG:NH2	2.29	0.66
1:S:242:MET:O	1:S:1131:THR:OG1	2.14	0.66
3:f:266:THR:HG22	3:f:273:ASN:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:660:LEU:HD11	1:N:916:LEU:HD11	1.78	0.65
1:Q:1374:GLU:HG3	1:Q:1383:ARG:HH21	1.61	0.65
1:B:687:LEU:HG	1:B:711:LEU:HD11	1.78	0.65
1:C:25:ILE:HB	1:C:26:PRO:HD3	1.77	0.65
4:o:34:SER:HA	4:o:69:ARG:HG2	1.78	0.65
3:h:251:PHE:HE2	3:h:430:LEU:HG	1.61	0.65
1:S:882:HIS:CD2	1:S:884:LEU:H	2.10	0.65
1:B:445:SER:OG	1:B:446:GLU:OE2	2.12	0.65
1:B:554:ARG:HG3	1:B:554:ARG:O	1.96	0.65
1:B:593:ILE:H	1:B:597:ASN:ND2	1.92	0.65
3:f:271:LEU:C	3:f:271:LEU:HD12	2.21	0.65
3:g:271:LEU:C	3:g:271:LEU:HD12	2.21	0.65
4:r:78:ILE:HD11	4:r:81:LYS:HE3	1.78	0.65
1:N:435:THR:HG23	1:N:1376:HIS:HD2	1.61	0.65
1:G:507:TYR:OH	1:G:577:PRO:O	2.14	0.65
1:G:675:SER:O	1:G:677:ARG:NH1	2.30	0.65
1:G:746:ASP:OD2	1:G:823:ARG:NH1	2.29	0.65
4:l:29:LYS:HG3	4:l:99:GLN:HE21	1.61	0.65
1:B:995:MET:HG3	1:B:1000:ARG:HE	1.60	0.65
1:G:472:ARG:HH22	1:G:1173:GLY:HA2	1.62	0.65
3:f:251:PHE:HE2	3:f:430:LEU:HG	1.62	0.65
1:U:1319:ALA:HA	1:U:1339:MET:HA	1.77	0.65
1:G:523:PHE:HE1	1:G:1011:PRO:HG3	1.62	0.65
1:G:865:PRO:HD3	1:G:888:GLN:HE22	1.60	0.65
1:N:1320:SER:O	1:N:1332:ARG:NH1	2.28	0.65
2:Z:105:ARG:NH1	2:Z:106:ILE:O	2.29	0.65
1:U:727:GLN:OE1	1:U:736:SER:OG	2.14	0.65
1:B:527:TRP:HE1	1:B:531:MET:HE1	1.62	0.65
2:H:9:VAL:HG22	2:H:16:PRO:HG3	1.79	0.65
1:E:1114:GLN:OE1	1:E:1116:ARG:NH2	2.25	0.65
1:G:939:THR:H	1:G:942:THR:HG22	1.60	0.65
2:V:22:GLU:O	2:V:67:ARG:NH1	2.30	0.65
1:G:299:LEU:HA	1:G:303:ILE:HD13	1.77	0.65
1:G:415:ILE:HG22	1:G:1341:GLN:HB2	1.78	0.65
1:G:769:ARG:HD2	1:G:934:ASP:HA	1.78	0.65
4:r:249:THR:HG23	4:r:253:ILE:HB	1.78	0.65
2:D:46:HIS:HA	2:D:50:ILE:HD11	1.78	0.65
1:M:429:ASN:OD1	1:M:430:SER:N	2.29	0.65
1:N:633:THR:HG22	1:N:959:MET:HE1	1.79	0.65
1:O:730:GLY:O	1:O:731:HIS:ND1	2.29	0.65
1:U:47:ILE:HG13	1:U:47:ILE:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:672:TRP:CG	1:F:703:CYS:HG	2.15	0.65
3:f:441:GLY:O	3:f:442:THR:CG2	2.45	0.65
3:h:231:MET:HE3	3:h:235:LEU:HD11	1.79	0.65
1:P:1091:SER:HB3	1:P:1119:VAL:HG12	1.79	0.65
1:F:667:CYS:HA	1:F:903:LEU:HD12	1.79	0.65
4:p:267:ARG:NH2	4:p:272:GLU:OE2	2.30	0.65
1:N:808:ARG:HH22	2:W:84:ALA:HB3	1.61	0.65
1:N:1225:ARG:NH2	1:N:1227:ARG:O	2.30	0.65
1:S:805:ARG:HH22	1:S:919:ASP:HB2	1.62	0.65
1:F:463:ASP:HB2	1:F:1198:ARG:HH22	1.62	0.65
1:G:642:ILE:HA	1:G:645:MET:HE2	1.78	0.65
1:M:952:LEU:HD11	1:M:977:VAL:HB	1.80	0.64
1:M:1053:ILE:O	1:M:1056:THR:OG1	2.15	0.64
1:T:627:ILE:HD12	1:T:1036:PHE:HE2	1.61	0.64
1:F:433:ARG:HD3	1:F:1378:ALA:HB2	1.78	0.64
1:G:240:ALA:HA	1:G:1389:ARG:HH22	1.62	0.64
1:P:502:CYS:SG	1:P:503:TYR:N	2.70	0.64
1:Q:538:VAL:HG11	1:Q:1006:VAL:HG12	1.79	0.64
1:Q:650:ILE:HG23	1:Q:656:ASN:HB2	1.79	0.64
1:R:793:ASN:HD21	1:R:796:ARG:HG3	1.60	0.64
1:C:55:ARG:HG2	1:C:56:SER:H	1.61	0.64
1:E:1225:ARG:NH1	1:E:1227:ARG:O	2.31	0.64
4:j:219:LEU:HB2	4:o:208:LEU:HD21	1.79	0.64
3:g:475:THR:HG22	3:g:477:THR:HG23	1.79	0.64
1:z:1227:ARG:HB2	1:z:1234:MET:HE1	1.80	0.64
1:O:102:VAL:O	1:O:138:LYS:NZ	2.30	0.64
1:S:872:GLU:O	1:S:881:ARG:NH1	2.31	0.64
1:U:880:PRO:O	1:U:888:GLN:NE2	2.31	0.64
1:E:683:ASN:OD1	1:E:685:HIS:N	2.30	0.64
2:K:82:MET:HE3	2:K:100:ARG:HH22	1.61	0.64
4:q:294:LEU:HB3	4:q:313:VAL:HG11	1.80	0.64
4:r:159:ARG:HH21	4:r:167:LEU:HD13	1.59	0.64
1:A:462:LYS:NZ	1:A:1198:ARG:O	2.31	0.64
1:S:58:ASP:OD1	1:S:59:ASN:N	2.30	0.64
4:l:188:GLU:HG3	4:l:190:ASN:H	1.62	0.64
4:s:93:THR:HG21	4:s:96:LEU:HD13	1.80	0.64
1:N:609:ASP:OD2	1:N:1034:SER:OG	2.16	0.64
2:Z:86:THR:HA	2:Z:95:THR:HG21	1.80	0.64
1:S:808:ARG:HH12	2:b:84:ALA:HB3	1.62	0.64
1:U:874:PRO:O	1:U:882:HIS:ND1	2.24	0.64
1:B:763:ASP:O	1:B:767:ARG:NH1	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:415:ILE:HG22	1:F:1077:PHE:HB2	1.79	0.64
1:F:489:THR:HG22	1:F:1269:HIS:HB3	1.79	0.64
1:F:1135:ARG:NH2	1:G:215:LYS:O	2.30	0.64
4:j:126:ARG:NH1	4:j:133:GLU:OE1	2.30	0.64
4:n:151:LYS:NZ	4:n:177:VAL:O	2.29	0.64
1:z:1079:THR:OG1	1:z:1081:GLN:NE2	2.30	0.64
1:A:660:LEU:HD23	1:A:663:LEU:HD23	1.79	0.64
1:M:98:GLU:OE1	1:M:98:GLU:N	2.30	0.64
1:P:934:ASP:OD2	1:P:1049:LYS:NZ	2.23	0.64
1:S:890:VAL:O	1:S:893:SER:OG	2.10	0.64
1:T:1319:ALA:HB1	1:T:1332:ARG:HH12	1.63	0.64
1:U:279:ASN:OD1	1:U:283:ARG:N	2.26	0.64
1:E:750:ALA:HB2	1:E:830:LYS:HG2	1.80	0.64
1:E:1277:ASN:OD1	1:E:1278:GLY:N	2.30	0.64
1:G:535:PRO:CB	1:G:1005:MET:HE1	2.27	0.64
1:G:851:ARG:HB2	1:G:975:TYR:HE2	1.61	0.64
4:j:142:GLN:NE2	4:j:290:THR:O	2.31	0.64
3:g:324:VAL:HG12	3:g:437:TYR:CB	2.27	0.64
4:r:153:VAL:HG21	4:r:288:LEU:HD23	1.79	0.64
1:M:29:ILE:HG13	1:M:30:ILE:H	1.63	0.64
1:M:961:TYR:HB2	1:M:988:HIS:CE1	2.33	0.64
2:Y:12:ASP:HB2	2:Y:15:ASN:HD22	1.62	0.64
1:G:579:ARG:HD2	1:G:580:PRO:HD2	1.80	0.64
1:P:622:MET:HE3	1:P:627:ILE:HG12	1.80	0.64
1:P:788:ASP:OD1	1:P:789:MET:N	2.30	0.64
1:R:1104:ALA:HB2	1:R:1109:ASN:HB2	1.78	0.64
1:S:1141:MET:HE1	1:S:1392:LEU:HD21	1.79	0.64
3:f:251:PHE:CE2	3:f:430:LEU:HG	2.33	0.64
4:l:115:LEU:HD13	4:l:140:ILE:HD13	1.79	0.64
3:h:131:PHE:CE2	3:h:136:GLU:HG3	2.33	0.64
3:h:251:PHE:CE2	3:h:430:LEU:HG	2.33	0.64
4:r:32:THR:OG1	4:r:50:TYR:OH	2.15	0.64
1:A:494:ARG:NH2	1:A:587:VAL:O	2.31	0.64
2:W:98:LEU:HD13	1:P:896:VAL:HG23	1.80	0.64
1:T:1093:PHE:HB2	1:T:1117:ALA:HB3	1.79	0.64
1:U:477:THR:HA	1:U:1148:LEU:HD12	1.78	0.64
1:O:150:GLU:OE2	4:k:76:ARG:NH1	2.31	0.64
1:O:724:PHE:HA	1:O:1061:THR:HG21	1.80	0.64
1:S:860:GLN:NE2	1:S:917:MET:SD	2.71	0.64
1:U:788:ASP:OD1	1:U:789:MET:N	2.30	0.64
1:E:308:ASP:OD1	1:E:309:THR:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:939:THR:N	1:A:942:THR:OG1	2.30	0.63
2:X:16:PRO:HB3	2:X:20:SER:H	1.63	0.63
1:R:209:LEU:HD23	1:R:234:LEU:HD22	1.80	0.63
4:l:222:LEU:HD23	4:l:223:ILE:HG12	1.80	0.63
1:z:187:SER:HA	1:z:190:ARG:HE	1.63	0.63
1:U:681:VAL:O	1:U:832:TYR:OH	2.16	0.63
1:G:1074:GLN:O	1:G:1202:SER:OG	2.17	0.63
3:h:455:GLU:CD	3:h:456:ARG:N	2.56	0.63
2:d:82:MET:O	2:d:99:LYS:NZ	2.25	0.63
1:C:67:ASP:N	1:E:334:GLY:O	2.21	0.63
1:G:523:PHE:CE1	1:G:1011:PRO:HG3	2.34	0.63
1:G:725:THR:HG21	1:G:737:GLU:HG3	1.81	0.63
3:g:452:ARG:HG2	3:g:465:ILE:CD1	2.27	0.63
1:B:1081:GLN:OE1	1:B:1341:GLN:NE2	2.32	0.63
3:f:129:ASP:OD1	3:f:130:PHE:N	2.31	0.63
1:R:741:ASN:OD1	1:R:742:ILE:N	2.32	0.63
1:U:448:ASP:HB2	1:U:451:GLN:HG2	1.81	0.63
1:G:827:ILE:HA	1:G:830:LYS:HZ3	1.64	0.63
1:M:1307:THR:O	1:M:1310:ARG:NH2	2.31	0.63
1:O:574:LEU:HG	1:O:575:PRO:HD2	1.80	0.63
1:Q:1092:TYR:OH	1:Q:1116:ARG:NH1	2.27	0.63
1:S:650:ILE:HG22	1:S:652:GLY:H	1.64	0.63
1:U:784:LEU:N	1:U:801:LEU:O	2.24	0.63
1:B:1225:ARG:NH1	1:B:1227:ARG:O	2.32	0.63
1:G:1217:TYR:CZ	1:G:1222:CYS:HB2	2.33	0.63
4:k:218:LEU:HD21	4:k:274:ILE:HG12	1.80	0.63
1:z:402:TYR:HE2	1:z:410:PRO:HD3	1.63	0.63
1:R:1241:ILE:HD11	1:R:1300:GLU:HB3	1.81	0.63
1:S:774:ARG:HB3	1:S:928:LEU:HB3	1.81	0.63
1:U:249:ALA:O	1:U:250:ARG:NH2	2.31	0.63
1:B:851:ARG:NH1	1:B:971:GLY:O	2.32	0.63
1:C:509:ALA:N	1:C:1011:PRO:O	2.30	0.63
1:F:711:LEU:HD22	1:G:637:ARG:NH2	2.13	0.63
1:F:846:CYS:HB2	1:F:985:CYS:HB3	1.79	0.63
2:K:29:PRO:HA	2:K:32:LEU:HB2	1.79	0.63
2:K:52:ASP:O	2:K:56:ILE:HG12	1.98	0.63
1:G:1037:ASN:O	1:G:1040:THR:OG1	2.14	0.63
3:g:307:VAL:HG22	3:g:354:ILE:HD11	1.81	0.63
4:s:32:THR:OG1	4:s:50:TYR:OH	2.09	0.63
2:Z:29:PRO:HA	2:Z:32:LEU:HB2	1.81	0.63
1:U:877:PRO:O	1:U:885:HIS:ND1	2.25	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:1073:ARG:NH1	1:U:1142:GLY:O	2.32	0.63
1:C:711:LEU:HD21	1:C:715:ARG:HH21	1.62	0.63
1:E:685:HIS:CE1	1:E:825:TRP:HE1	2.16	0.63
1:G:688:MET:SD	1:G:691:THR:OG1	2.56	0.63
3:e:129:ASP:OD1	3:e:130:PHE:N	2.31	0.63
4:q:242:THR:O	4:q:247:ARG:NH1	2.31	0.63
1:A:860:GLN:NE2	1:A:917:MET:SD	2.70	0.63
1:O:29:ILE:HB	1:C:343:VAL:HG11	1.80	0.63
1:O:201:LEU:HD23	1:O:1083:LEU:HD13	1.81	0.63
1:Q:968:ILE:HG12	1:Q:972:THR:HG21	1.80	0.63
1:R:1332:ARG:NH2	1:R:1336:SER:O	2.32	0.63
1:U:683:ASN:HD21	1:U:754:TRP:NE1	1.97	0.63
3:h:322:PHE:HB2	3:h:341:ALA:HB3	1.81	0.63
2:D:94:PRO:HD2	1:M:858:ALA:HB2	1.81	0.62
1:E:736:SER:OG	1:E:737:GLU:OE1	2.17	0.62
1:F:139:ARG:NH2	1:F:195:GLN:OE1	2.31	0.62
1:A:650:ILE:HD11	1:A:657:PHE:HA	1.80	0.62
1:O:1326:THR:HG22	1:O:1328:TYR:H	1.63	0.62
1:P:782:GLN:HB2	1:P:800:VAL:HG22	1.81	0.62
1:P:1114:GLN:OE1	1:P:1116:ARG:NH2	2.32	0.62
2:Z:42:LEU:HG	2:Z:47:ARG:HH21	1.63	0.62
2:a:25:ALA:O	2:a:28:THR:OG1	2.16	0.62
1:B:508:VAL:HG13	1:B:575:PRO:HA	1.79	0.62
1:G:523:PHE:CD1	1:G:1011:PRO:CG	2.82	0.62
4:j:67:ARG:O	4:o:111:TYR:OH	2.13	0.62
3:h:129:ASP:OD1	3:h:130:PHE:N	2.31	0.62
1:A:770:LEU:O	1:A:946:ARG:NH2	2.31	0.62
1:A:1322:SER:OG	1:A:1323:SER:N	2.32	0.62
1:N:128:VAL:HG11	1:O:406:ARG:HH22	1.64	0.62
1:O:563:PHE:O	1:O:592:ARG:NH1	2.32	0.62
1:R:593:ILE:HD13	1:R:1020:THR:HA	1.80	0.62
1:T:883:PRO:O	1:T:895:ASN:ND2	2.30	0.62
1:U:697:GLY:HA3	1:B:674:GLN:HG3	1.80	0.62
1:B:1175:ARG:HE	1:C:1256:THR:HB	1.65	0.62
1:z:68:ILE:HG22	1:z:70:LEU:H	1.64	0.62
1:z:1219:ARG:HH12	1:z:1383:ARG:H	1.46	0.62
1:O:1017:HIS:O	1:O:1022:ARG:NH2	2.32	0.62
1:Q:839:ALA:O	1:Q:842:ARG:NH1	2.33	0.62
1:R:275:ILE:HG13	1:R:276:THR:H	1.64	0.62
1:G:523:PHE:CZ	1:G:1010:PRO:CA	2.81	0.62
1:G:579:ARG:NH1	1:G:580:PRO:O	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:p:270:ILE:HA	4:p:273:THR:HG22	1.81	0.62
1:z:1091:SER:HB2	1:z:1119:VAL:HB	1.79	0.62
1:A:25:ILE:HB	1:A:26:PRO:HD3	1.81	0.62
1:M:94:THR:HA	1:M:318:GLY:HA3	1.81	0.62
1:M:461:ASN:OD1	1:M:462:LYS:N	2.30	0.62
1:N:1306:ASN:O	1:B:45:ARG:NH1	2.32	0.62
1:C:290:VAL:HG22	1:C:411:LEU:HD11	1.82	0.62
1:C:1308:LEU:H	1:C:1310:ARG:HH12	1.45	0.62
2:J:80:THR:O	2:J:100:ARG:NH2	2.26	0.62
1:G:1012:PHE:CD2	1:G:1013:LEU:N	2.67	0.62
3:g:322:PHE:HB2	3:g:341:ALA:HB3	1.81	0.62
4:m:146:ARG:NH2	4:r:275:SER:O	2.33	0.62
1:S:755:ASP:OD2	1:S:820:HIS:ND1	2.33	0.62
1:B:705:ASN:OD1	1:B:708:ARG:NH2	2.27	0.62
1:B:848:MET:HB3	1:B:974:PHE:HB3	1.82	0.62
1:B:1093:PHE:HB2	1:B:1117:ALA:HB3	1.82	0.62
1:F:866:GLU:O	1:F:881:ARG:NH2	2.31	0.62
4:o:149:ILE:HD11	4:o:288:LEU:HG	1.80	0.62
3:f:322:PHE:HB2	3:f:341:ALA:HB3	1.81	0.62
3:i:475:THR:O	3:i:475:THR:HG23	1.99	0.62
1:P:995:MET:HG3	1:P:1000:ARG:HD3	1.81	0.62
1:C:642:ILE:O	1:C:646:LEU:HG	1.99	0.62
4:o:31:ILE:HG22	4:o:136:PHE:HE1	1.65	0.62
1:A:986:PRO:HA	1:A:989:LEU:HD23	1.81	0.62
1:S:655:ARG:HE	1:S:805:ARG:HH11	1.45	0.62
4:l:282:SER:OG	4:q:146:ARG:NH1	2.30	0.62
1:M:665:THR:HG22	1:M:694:LEU:HD21	1.80	0.62
1:M:1236:ASP:HB3	1:M:1237:ARG:HD2	1.81	0.62
1:O:994:GLY:O	1:O:999:ARG:NH1	2.33	0.62
1:U:284:GLN:NE2	1:U:285:VAL:O	2.33	0.62
1:U:985:CYS:SG	1:U:988:HIS:ND1	2.72	0.62
1:C:701:GLU:HG2	1:E:675:SER:HA	1.82	0.62
4:o:186:GLU:HG3	4:o:187:LEU:N	2.15	0.62
4:r:17:PRO:O	4:r:21:SER:OG	2.11	0.62
3:i:133:PRO:HG2	3:i:267:ILE:HD11	1.82	0.62
4:s:14:GLU:OE1	4:s:14:GLU:N	2.32	0.62
1:N:241:ASP:HB2	1:N:244:PHE:HD2	1.64	0.62
1:N:304:LEU:HB3	1:N:385:VAL:HG21	1.82	0.62
1:N:749:ILE:HD11	1:N:762:ARG:HD2	1.81	0.62
1:O:308:ASP:OD1	1:O:309:THR:N	2.32	0.62
1:P:848:MET:HE2	1:P:976:PRO:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:73:ASN:O	2:b:76:THR:OG1	2.18	0.62
1:B:26:PRO:HG3	1:B:61:LEU:HD22	1.80	0.62
1:B:774:ARG:NH2	1:B:778:ARG:O	2.33	0.62
1:F:959:MET:HG2	1:F:960:ALA:H	1.65	0.62
4:j:4:PRO:HA	4:j:92:PRO:HD2	1.82	0.62
4:k:41:SER:OG	4:k:44:ASP:OD2	2.16	0.62
1:A:808:ARG:HH12	2:D:84:ALA:HB3	1.65	0.61
1:M:1207:VAL:HG22	1:M:1276:TYR:HE2	1.65	0.61
1:O:808:ARG:HH12	2:X:85:GLU:H	1.48	0.61
1:R:755:ASP:OD1	1:R:756:CYS:N	2.33	0.61
1:T:683:ASN:OD1	1:T:833:TYR:OH	2.18	0.61
1:E:1205:GLU:HG2	1:E:1292:CYS:SG	2.40	0.61
1:G:239:CYS:O	1:G:1389:ARG:NH2	2.33	0.61
1:G:470:THR:HG23	1:G:472:ARG:H	1.65	0.61
3:h:200:PHE:CE1	3:h:231:MET:HE1	2.34	0.61
1:N:1073:ARG:HH21	1:N:1141:MET:HB3	1.66	0.61
1:O:293:ALA:N	1:O:398:GLU:OE2	2.33	0.61
1:Q:934:ASP:OD1	1:Q:936:GLY:N	2.33	0.61
1:S:1152:ARG:HH22	1:S:1186:GLY:H	1.48	0.61
1:T:506:VAL:HG21	1:T:568:ALA:HA	1.80	0.61
1:T:741:ASN:OD1	1:T:742:ILE:N	2.32	0.61
1:U:1225:ARG:NH1	1:U:1227:ARG:O	2.33	0.61
1:U:1287:PRO:O	1:U:1331:LYS:N	2.33	0.61
1:B:546:GLN:NE2	1:B:546:GLN:O	2.33	0.61
1:C:739:LEU:HD13	1:C:1053:ILE:HG21	1.82	0.61
1:F:414:ASN:HD22	1:F:1076:ARG:HD2	1.63	0.61
1:F:655:ARG:HG3	1:F:805:ARG:HD2	1.81	0.61
1:G:515:THR:OG1	1:G:975:TYR:OH	2.15	0.61
3:e:322:PHE:HB2	3:e:341:ALA:HB3	1.81	0.61
3:h:200:PHE:HE1	3:h:231:MET:HE1	1.65	0.61
3:h:429:GLN:NE2	4:r:280:THR:OG1	2.33	0.61
1:A:627:ILE:HG23	1:A:1036:PHE:CE2	2.35	0.61
1:M:683:ASN:OD1	1:M:685:HIS:N	2.33	0.61
1:M:1017:HIS:O	1:M:1022:ARG:NH2	2.33	0.61
1:N:1379:GLN:HE22	1:P:431:MET:HE1	1.64	0.61
2:W:89:MET:SD	2:W:91:TRP:NE1	2.73	0.61
1:P:1394:LEU:HB3	1:P:1395:PRO:HD2	1.82	0.61
2:d:98:LEU:HD11	1:B:899:HIS:HD2	1.66	0.61
1:G:637:ARG:HB2	1:G:962:GLN:OE1	1.99	0.61
1:G:657:PHE:HA	1:G:660:LEU:HD12	1.81	0.61
4:o:34:SER:OG	4:o:69:ARG:NE	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:o:200:ALA:O	4:o:203:THR:OG1	2.18	0.61
4:k:31:ILE:HD12	4:k:45:ILE:HG21	1.82	0.61
4:p:77:VAL:HG12	4:p:82:LEU:HD13	1.82	0.61
4:p:194:ARG:O	4:p:197:SER:OG	2.15	0.61
3:h:118:THR:HG23	3:h:118:THR:O	2.00	0.61
1:O:961:TYR:HD2	1:O:987:GLU:HG3	1.65	0.61
1:P:675:SER:O	1:P:677:ARG:NH1	2.33	0.61
1:Q:524:MET:O	1:Q:999:ARG:NH1	2.22	0.61
1:U:938:ALA:HB1	1:U:1158:LEU:HB3	1.81	0.61
3:e:475:THR:HG22	3:e:477:THR:HG23	1.82	0.61
1:O:1307:THR:CG2	1:O:1310:ARG:HH11	2.13	0.61
1:R:1080:GLU:HB2	1:R:1133:ALA:HB3	1.82	0.61
1:U:524:MET:O	1:U:999:ARG:NH1	2.33	0.61
1:U:1114:GLN:OE1	1:U:1116:ARG:NH2	2.33	0.61
1:C:595:ASN:ND2	1:C:611:ARG:HH12	1.98	0.61
3:h:475:THR:HG23	3:h:475:THR:O	2.00	0.61
2:V:12:ASP:HB2	2:V:15:ASN:HB2	1.83	0.61
1:N:749:ILE:HG13	1:N:929:VAL:HG21	1.82	0.61
1:P:1225:ARG:NH1	1:P:1227:ARG:O	2.33	0.61
1:U:145:PHE:HE2	1:U:177:MET:HE1	1.64	0.61
1:U:559:LEU:HB3	1:U:1270:SER:HA	1.82	0.61
1:U:653:ASN:HB3	1:U:656:ASN:HD22	1.64	0.61
3:i:329:GLN:H	3:i:365:ASN:HD21	1.46	0.61
1:N:461:ASN:OD1	1:N:462:LYS:N	2.31	0.61
1:N:798:ASP:OD1	1:N:799:ASN:N	2.33	0.61
1:Q:1311:LEU:HD11	1:Q:1346:LEU:HD21	1.83	0.61
1:R:469:LEU:HD13	1:R:1143:ASN:HB2	1.81	0.61
1:R:802:ILE:HD11	1:R:921:ALA:HA	1.82	0.61
1:U:594:ILE:HD11	1:U:1047:TYR:HA	1.82	0.61
1:U:650:ILE:HB	1:U:686:MET:HE1	1.83	0.61
1:U:748:PHE:HD2	1:U:830:LYS:HD3	1.64	0.61
1:B:1135:ARG:NH2	1:C:215:LYS:O	2.34	0.61
1:E:636:ASP:OD2	1:E:677:ARG:NH1	2.33	0.61
2:K:92:LEU:HG	2:L:54:ARG:HD2	1.82	0.61
1:G:290:VAL:HG23	1:G:397:LEU:HD23	1.82	0.61
1:G:661:LEU:HD22	1:G:694:LEU:HD21	1.82	0.61
3:g:157:THR:O	3:g:157:THR:CG2	2.46	0.61
3:h:362:ARG:NH2	3:h:483:TYR:O	2.34	0.61
3:i:129:ASP:OD1	3:i:130:PHE:N	2.33	0.61
1:Q:18:ARG:HH11	1:Q:18:ARG:CG	2.14	0.61
1:T:1300:GLU:OE1	1:T:1302:ASN:ND2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:798:ASP:OD1	1:U:799:ASN:ND2	2.34	0.61
1:E:634:PHE:HA	1:E:959:MET:HE3	1.82	0.61
1:G:645:MET:HE1	1:G:897:TYR:CD2	2.36	0.61
3:f:299:ILE:HD11	3:f:304:PHE:HB2	1.81	0.61
3:g:129:ASP:OD1	3:g:130:PHE:N	2.33	0.61
3:i:322:PHE:HB2	3:i:341:ALA:HB3	1.81	0.61
1:Q:1227:ARG:NH1	1:Q:1259:ALA:O	2.33	0.61
2:Z:18:THR:HB	2:Z:59:VAL:HG13	1.81	0.61
1:S:893:SER:HB3	2:b:30:VAL:HG11	1.82	0.61
1:S:1241:ILE:HD12	1:S:1244:ILE:HD12	1.83	0.61
1:E:666:GLN:HB2	1:E:905:VAL:HG12	1.83	0.61
1:F:531:MET:HE2	1:F:1006:VAL:HG21	1.81	0.61
1:G:748:PHE:HE1	1:G:1020:THR:HG21	1.65	0.61
1:A:1034:SER:OG	1:A:1035:ASP:N	2.33	0.61
1:M:866:GLU:OE1	2:V:72:HIS:NE2	2.33	0.61
1:N:893:SER:OG	1:N:894:LEU:N	2.33	0.61
1:R:304:LEU:HB3	1:R:385:VAL:HG21	1.82	0.61
1:R:788:ASP:OD1	1:R:789:MET:N	2.33	0.61
2:a:8:ARG:HG3	2:a:9:VAL:HG13	1.83	0.61
1:T:656:ASN:HD21	1:T:919:ASP:HB2	1.65	0.61
1:T:745:ASP:O	1:T:830:LYS:NZ	2.34	0.61
1:T:770:LEU:O	1:T:946:ARG:NH2	2.34	0.61
1:T:803:HIS:CE1	1:T:817:ILE:HD12	2.36	0.61
1:U:230:LEU:O	1:U:234:LEU:HG	2.01	0.61
1:B:397:LEU:HD23	1:B:397:LEU:H	1.66	0.61
1:E:1175:ARG:NE	1:F:1256:THR:OG1	2.33	0.61
1:F:683:ASN:OD1	1:F:685:HIS:ND1	2.30	0.61
1:F:789:MET:HB2	1:F:917:MET:HA	1.83	0.61
1:F:1075:ASP:OD1	1:F:1139:THR:OG1	2.19	0.61
4:o:29:LYS:HD2	4:o:136:PHE:CE2	2.35	0.61
3:h:231:MET:HE3	3:h:235:LEU:CD1	2.31	0.61
1:z:1241:ILE:HG12	1:z:1244:ILE:HD11	1.82	0.61
1:A:644:TYR:HD1	1:A:956:LEU:HD21	1.66	0.60
1:M:1080:GLU:HB2	1:M:1133:ALA:HB3	1.83	0.60
2:W:55:SER:O	2:W:58:THR:OG1	2.19	0.60
1:S:681:VAL:O	1:S:832:TYR:OH	2.19	0.60
1:U:45:ARG:HA	1:U:45:ARG:HE	1.66	0.60
1:B:47:ILE:HG13	1:B:48:PHE:CD1	2.35	0.60
1:B:123:PRO:HA	4:o:38:HIS:NE2	2.16	0.60
1:C:443:THR:HG21	1:C:449:PRO:HD2	1.83	0.60
1:G:933:PRO:HB2	1:G:937:ALA:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:o:65:ALA:HB1	4:o:69:ARG:HH12	1.64	0.60
3:f:183:TRP:CE3	3:f:184:THR:HG23	2.36	0.60
3:i:155:ALA:O	3:i:159:THR:OG1	2.19	0.60
1:A:939:THR:HG22	1:A:1157:MET:HA	1.82	0.60
1:M:654:GLU:OE2	1:M:693:TYR:OH	2.19	0.60
1:O:725:THR:HB	1:O:740:ASN:HD22	1.65	0.60
1:Q:729:GLU:OE2	1:Q:1060:ARG:NH2	2.31	0.60
2:a:17:THR:O	2:a:20:SER:OG	2.17	0.60
1:S:395:GLU:OE1	1:S:397:LEU:HG	2.02	0.60
1:T:785:HIS:NE2	1:T:816:PRO:O	2.34	0.60
1:U:704:ILE:HD12	1:U:708:ARG:HH21	1.65	0.60
1:U:792:HIS:HD2	1:U:794:PHE:HB2	1.65	0.60
1:E:626:THR:HG23	1:E:706:ILE:HG23	1.83	0.60
1:G:515:THR:HA	1:G:518:VAL:HG22	1.83	0.60
4:q:47:LEU:HD13	4:q:135:VAL:HG21	1.83	0.60
1:A:384:LEU:HD23	1:A:391:LEU:HD21	1.83	0.60
1:M:308:ASP:OD1	1:M:309:THR:N	2.33	0.60
1:M:515:THR:HG21	1:M:924:THR:HG23	1.83	0.60
2:X:50:ILE:HG13	2:X:54:ARG:HH12	1.65	0.60
1:Q:18:ARG:O	1:Q:19:ILE:C	2.44	0.60
1:Q:1333:PRO:HG2	1:Q:1336:SER:HB2	1.82	0.60
1:T:58:ASP:H	1:T:61:LEU:HD23	1.67	0.60
1:T:996:THR:OG1	1:T:999:ARG:NH1	2.33	0.60
1:F:477:THR:HA	1:F:1148:LEU:HD13	1.83	0.60
3:f:183:TRP:O	3:f:184:THR:OG1	2.18	0.60
3:h:227:GLY:C	3:h:228:CYS:SG	2.83	0.60
2:V:91:TRP:HB2	2:X:54:ARG:HH21	1.65	0.60
1:N:180:ASN:HD22	1:P:127:PRO:HG2	1.67	0.60
1:P:909:ALA:O	1:P:912:THR:OG1	2.19	0.60
1:P:1301:VAL:O	1:P:1304:ASN:ND2	2.34	0.60
1:R:611:ARG:HH22	1:R:1066:GLY:H	1.49	0.60
1:E:480:HIS:HD2	1:E:482:SER:H	1.48	0.60
1:F:1288:ILE:O	1:F:1331:LYS:NZ	2.34	0.60
1:G:1320:SER:O	1:G:1332:ARG:NE	2.24	0.60
4:r:4:PRO:HB3	4:r:93:THR:HG22	1.83	0.60
1:N:911:LEU:O	2:W:69:ARG:NH1	2.35	0.60
1:O:1193:SER:OG	1:O:1194:ALA:N	2.35	0.60
1:S:224:ARG:NE	1:S:1235:GLY:O	2.21	0.60
1:S:962:GLN:HG3	1:S:964:TYR:H	1.65	0.60
1:T:1344:CYS:SG	1:T:1345:GLY:N	2.74	0.60
1:B:650:ILE:HG22	1:B:652:GLY:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:292:THR:HG22	1:G:295:LEU:HB2	1.83	0.60
1:M:961:TYR:CE2	1:M:963:ALA:HB2	2.36	0.60
1:N:574:LEU:HB2	1:N:575:PRO:HD3	1.84	0.60
2:Y:105:ARG:HH12	2:Y:107:ILE:HB	1.66	0.60
1:Q:24:ASN:HB2	1:Q:27:ALA:HB2	1.83	0.60
2:a:18:THR:HG22	2:a:56:ILE:HG23	1.83	0.60
1:S:615:LEU:HD22	1:S:724:PHE:HE2	1.66	0.60
1:U:312:ASP:HB2	1:U:377:ASN:HB3	1.83	0.60
1:F:423:MET:HE3	1:F:456:GLY:HA2	1.83	0.60
1:F:626:THR:O	1:F:630:VAL:HG22	2.01	0.60
2:K:80:THR:HG21	1:G:891:PRO:HG2	1.82	0.60
1:G:926:ALA:HB1	1:G:1012:PHE:CE2	2.35	0.60
4:o:296:VAL:HA	4:o:313:VAL:HG12	1.83	0.60
3:f:204:CYS:HB3	3:f:235:LEU:HD23	1.84	0.60
1:z:1388:LEU:HD21	1:z:1392:LEU:HD22	1.83	0.60
1:A:242:MET:O	1:A:1131:THR:OG1	2.20	0.60
1:M:869:ALA:HA	2:V:105:ARG:HH22	1.66	0.60
1:P:849:GLY:N	1:P:975:TYR:O	2.31	0.60
2:Z:87:ASP:O	2:Z:90:THR:OG1	2.16	0.60
1:R:637:ARG:HB3	1:R:962:GLN:OE1	2.01	0.60
1:U:116:ILE:HD12	1:G:407:VAL:HG11	1.83	0.60
1:B:700:PRO:HG2	1:B:703:CYS:HB2	1.82	0.60
1:B:704:ILE:HG13	1:B:708:ARG:HH11	1.67	0.60
1:C:431:MET:SD	1:C:431:MET:N	2.69	0.60
1:M:755:ASP:OD1	1:M:756:CYS:N	2.25	0.60
1:N:16:SER:OG	1:N:17:ASP:N	2.31	0.60
1:R:248:HIS:ND1	1:R:251:GLU:OE2	2.22	0.60
1:S:851:ARG:NH2	1:S:971:GLY:O	2.34	0.60
1:B:242:MET:HG3	1:B:243:PHE:CD1	2.37	0.60
1:C:493:LEU:HD23	1:C:587:VAL:HG11	1.83	0.60
1:G:523:PHE:CZ	1:G:1009:ILE:C	2.78	0.60
3:f:308:ASP:N	3:f:308:ASP:OD1	2.34	0.60
3:g:311:LEU:HD23	3:g:357:LEU:HD11	1.83	0.60
4:m:154:ALA:HA	4:m:157:VAL:HG12	1.84	0.60
4:r:161:ALA:HB3	4:r:167:LEU:HD11	1.84	0.60
2:D:12:ASP:HB2	2:D:15:ASN:HD22	1.66	0.60
1:B:721:ILE:HG12	1:B:1044:LEU:HD21	1.82	0.60
1:F:650:ILE:HD11	1:F:657:PHE:HB2	1.83	0.60
1:F:1049:LYS:HE2	1:F:1051:THR:HB	1.84	0.60
2:L:33:ILE:HD12	2:L:33:ILE:H	1.65	0.60
3:g:155:ALA:O	3:g:159:THR:OG1	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:24:GLN:HA	4:l:77:VAL:HG11	1.82	0.60
4:n:41:SER:OG	4:n:42:LEU:N	2.35	0.60
1:O:520:MET:HE2	1:O:992:LEU:HA	1.84	0.60
1:Q:962:GLN:HG2	1:Q:963:ALA:H	1.67	0.60
1:R:749:ILE:HD11	1:R:762:ARG:HD2	1.84	0.60
1:C:661:LEU:HD22	1:C:694:LEU:HD11	1.83	0.60
1:C:845:CYS:HB3	1:C:957:ILE:HD11	1.84	0.60
1:C:969:ALA:HB3	1:C:972:THR:HB	1.83	0.60
1:E:914:GLN:HA	1:E:917:MET:HE2	1.83	0.60
1:F:760:ILE:HG21	1:F:819:PRO:HB3	1.84	0.60
1:G:1165:SER:O	1:G:1169:ILE:HG12	2.01	0.60
4:k:209:MET:HE3	4:p:226:LEU:HD21	1.84	0.60
3:i:267:ILE:HG22	3:i:268:GLN:N	2.16	0.60
1:M:559:LEU:HB3	1:M:1270:SER:HA	1.84	0.59
1:M:661:LEU:O	1:M:665:THR:HG23	2.01	0.59
1:M:1303:THR:OG1	1:M:1306:ASN:HB2	2.02	0.59
2:X:25:ALA:HB3	2:X:28:THR:HG23	1.84	0.59
1:R:18:ARG:HH21	1:R:18:ARG:CG	2.15	0.59
1:S:1058:GLN:HB3	1:S:1063:PHE:HD2	1.68	0.59
1:S:1073:ARG:HH21	1:S:1141:MET:HB3	1.66	0.59
1:C:113:GLN:HE21	1:C:130:ASN:HD21	1.50	0.59
1:C:784:LEU:N	1:C:801:LEU:O	2.33	0.59
1:G:485:ASP:O	1:G:1274:ARG:NH1	2.35	0.59
1:A:463:ASP:OD2	1:A:1198:ARG:NH1	2.35	0.59
1:A:718:ARG:HE	1:A:827:ILE:HG21	1.67	0.59
1:A:741:ASN:OD1	1:A:742:ILE:N	2.34	0.59
1:Q:741:ASN:OD1	1:Q:742:ILE:N	2.34	0.59
1:C:73:TYR:HE2	1:E:1121:LEU:HD23	1.67	0.59
3:g:311:LEU:HD23	3:g:311:LEU:N	2.17	0.59
4:n:32:THR:OG1	4:n:50:TYR:OH	2.20	0.59
1:N:1270:SER:OG	1:N:1271:TYR:N	2.30	0.59
2:W:24:ILE:HG22	2:W:29:PRO:HD3	1.84	0.59
1:P:969:ALA:HB3	1:P:972:THR:HB	1.84	0.59
1:U:431:MET:O	1:G:450:ARG:NH1	2.34	0.59
1:C:754:TRP:HE3	1:C:954:HIS:HD2	1.49	0.59
1:C:877:PRO:HB3	1:C:884:LEU:HD23	1.83	0.59
1:F:134:LYS:NZ	1:F:1120:ASP:O	2.29	0.59
1:G:1358:ASP:HB2	1:G:1379:GLN:HE21	1.67	0.59
3:g:132:ARG:HD2	3:g:226:TYR:CD1	2.38	0.59
4:q:203:THR:O	4:q:207:ASN:ND2	2.36	0.59
2:D:13:PRO:HA	2:D:45:GLY:HA2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:443:THR:HG22	1:M:445:SER:H	1.67	0.59
1:M:463:ASP:OD2	1:M:1198:ARG:NH1	2.31	0.59
1:O:663:LEU:HB2	1:O:909:ALA:HB1	1.84	0.59
1:T:789:MET:SD	1:T:789:MET:N	2.72	0.59
2:d:87:ASP:O	2:d:89:MET:N	2.36	0.59
1:B:1278:GLY:N	1:B:1297:THR:OG1	2.35	0.59
1:B:1304:ASN:O	1:B:1310:ARG:NH2	2.36	0.59
1:F:452:PHE:CZ	1:F:614:GLN:HA	2.37	0.59
1:F:1138:LEU:HD21	1:F:1324:THR:HG21	1.85	0.59
1:F:1294:LYS:O	1:F:1348:GLN:NE2	2.32	0.59
1:G:306:ILE:HA	1:G:385:VAL:HG22	1.84	0.59
4:r:244:ASN:OD1	4:r:245:CYS:N	2.35	0.59
4:s:24:GLN:HA	4:s:77:VAL:HG21	1.83	0.59
1:z:139:ARG:HD2	1:z:195:GLN:HE21	1.67	0.59
1:z:1372:ALA:O	1:z:1383:ARG:NH2	2.35	0.59
1:R:342:ASP:O	1:R:346:HIS:ND1	2.35	0.59
1:R:755:ASP:OD1	1:R:757:ASP:N	2.36	0.59
1:S:1104:ALA:HB2	1:S:1109:ASN:HB2	1.83	0.59
1:T:280:THR:OG1	1:T:308:ASP:OD2	2.17	0.59
1:U:690:ILE:O	1:U:694:LEU:HB2	2.03	0.59
2:H:70:ALA:HA	2:H:73:ASN:HB2	1.83	0.59
1:E:69:LEU:HD23	1:F:337:VAL:HG13	1.84	0.59
1:E:239:CYS:HA	1:E:1387:PRO:HG3	1.83	0.59
1:G:746:ASP:HB2	1:G:765:ALA:HB3	1.84	0.59
1:G:1147:ASN:OD1	1:G:1149:PHE:N	2.31	0.59
3:f:267:ILE:HG22	3:f:268:GLN:N	2.18	0.59
3:g:138:ALA:HB3	3:g:295:VAL:HG21	1.85	0.59
4:r:145:MET:HE2	4:r:290:THR:HG22	1.84	0.59
4:s:155:ARG:NH1	4:s:176:ASP:OD2	2.35	0.59
1:N:939:THR:H	1:N:942:THR:HG1	1.46	0.59
1:B:1166:LEU:HA	1:B:1169:ILE:HD12	1.85	0.59
1:C:1208:ALA:O	1:C:1262:ASN:ND2	2.31	0.59
1:E:494:ARG:HB3	1:E:587:VAL:HG12	1.84	0.59
1:F:189:GLU:OE1	1:F:189:GLU:N	2.35	0.59
3:g:286:ARG:HH21	3:g:293:ARG:NH1	2.01	0.59
1:A:1214:ASP:N	1:A:1214:ASP:OD1	2.35	0.59
1:M:688:MET:HG2	1:M:825:TRP:CZ3	2.37	0.59
1:O:986:PRO:HA	1:O:989:LEU:HD13	1.85	0.59
1:P:1214:ASP:OD1	1:P:1214:ASP:N	2.34	0.59
1:R:586:THR:HG22	1:R:587:VAL:H	1.66	0.59
1:S:1080:GLU:HB2	1:S:1133:ALA:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:292:THR:HG22	1:E:293:ALA:H	1.67	0.59
1:E:693:TYR:OH	1:F:966:GLU:OE2	2.18	0.59
1:F:480:HIS:HD2	1:F:482:SER:H	1.49	0.59
1:M:64:ALA:HB1	1:R:165:ILE:HD11	1.84	0.59
1:M:595:ASN:HD21	1:M:611:ARG:HH12	1.49	0.59
1:N:1246:PHE:O	1:N:1248:HIS:ND1	2.33	0.59
1:P:247:ARG:NH2	1:P:1387:PRO:O	2.36	0.59
1:P:757:ASP:OD2	1:P:820:HIS:N	2.34	0.59
1:P:1017:HIS:O	1:P:1022:ARG:NH1	2.36	0.59
1:T:1263:PRO:O	1:T:1267:GLN:NE2	2.36	0.59
1:U:82:PHE:N	1:U:189:GLU:OE2	2.35	0.59
1:G:737:GLU:OE1	1:G:737:GLU:N	2.35	0.59
1:A:494:ARG:NH2	1:A:588:ASN:OD1	2.36	0.59
1:A:687:LEU:O	1:A:691:THR:HG23	2.03	0.59
1:N:1205:GLU:HG3	1:N:1291:PRO:HD2	1.85	0.59
1:O:270:VAL:O	1:O:1087:ARG:NH1	2.36	0.59
1:O:423:MET:HE3	1:O:471:LEU:HD23	1.85	0.59
1:P:654:GLU:OE2	1:P:693:TYR:OH	2.20	0.59
1:Q:1231:MET:HE3	1:Q:1310:ARG:HE	1.67	0.59
1:T:792:HIS:CD2	1:T:920:MET:HE1	2.38	0.59
1:U:675:SER:HB3	1:U:677:ARG:HH11	1.68	0.59
1:B:534:HIS:ND1	1:B:1005:MET:SD	2.75	0.59
1:C:986:PRO:HB2	1:C:1004:LYS:HZ2	1.68	0.59
2:I:69:ARG:HB2	2:I:72:HIS:HB2	1.83	0.59
3:e:155:ALA:O	3:e:159:THR:OG1	2.19	0.59
3:i:138:ALA:HB3	3:i:295:VAL:HG21	1.85	0.59
1:M:847:THR:OG1	1:M:977:VAL:O	2.20	0.59
2:V:72:HIS:HA	2:V:75:ASN:HD21	1.67	0.59
1:N:1034:SER:HB2	1:N:1039:LEU:HB2	1.84	0.59
2:a:101:THR:OG1	1:S:899:HIS:NE2	2.36	0.59
1:C:751:PRO:O	1:C:952:LEU:N	2.36	0.59
1:C:1175:ARG:NH1	1:C:1328:TYR:OH	2.36	0.59
1:G:716:ALA:O	1:G:719:GLN:HG2	2.02	0.59
1:G:962:GLN:HG3	1:G:964:TYR:H	1.67	0.59
4:p:49:SER:OG	4:p:69:ARG:NH2	2.36	0.59
4:s:73:VAL:HG23	4:s:87:ILE:HD11	1.85	0.59
4:s:87:ILE:O	4:s:315:GLN:NE2	2.36	0.59
1:A:539:ASN:HD22	1:A:541:HIS:HE1	1.50	0.58
1:N:448:ASP:OD1	1:N:448:ASP:N	2.35	0.58
1:Q:866:GLU:OE2	2:Z:71:ASN:ND2	2.36	0.58
1:T:600:VAL:HG23	1:T:601:PRO:HD3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:561:PRO:HB3	1:B:1264:TRP:CZ3	2.38	0.58
1:C:874:PRO:HB3	1:C:881:ARG:HG3	1.83	0.58
1:E:463:ASP:OD1	1:F:236:ARG:NH1	2.36	0.58
1:M:934:ASP:OD1	1:M:935:ALA:N	2.35	0.58
1:Q:979:VAL:HG12	1:Q:1013:LEU:HD13	1.84	0.58
1:T:520:MET:HE2	1:T:992:LEU:HA	1.86	0.58
1:T:627:ILE:HG23	1:T:1036:PHE:CE2	2.38	0.58
1:U:180:ASN:O	1:U:184:VAL:HG23	2.03	0.58
1:U:214:ASN:ND2	1:U:265:CYS:SG	2.76	0.58
1:E:337:VAL:HB	1:E:340:MET:HB2	1.84	0.58
1:F:480:HIS:CD2	1:F:482:SER:H	2.19	0.58
1:F:671:TYR:HA	1:F:674:GLN:HE21	1.67	0.58
4:j:205:VAL:HG12	4:j:208:LEU:HD22	1.85	0.58
3:f:357:LEU:HD12	3:f:358:LEU:CD1	2.23	0.58
1:A:719:GLN:O	1:A:722:THR:OG1	2.19	0.58
1:U:483:LEU:HD22	1:U:1052:PRO:HG3	1.86	0.58
2:H:10:VAL:HG23	2:H:36:LEU:HD11	1.85	0.58
1:F:796:ARG:O	1:F:923:ARG:NH1	2.36	0.58
1:G:794:PHE:HB3	1:G:795:GLN:NE2	2.16	0.58
1:G:1072:VAL:HG21	1:G:1292:CYS:SG	2.44	0.58
4:p:106:LEU:HB2	4:p:305:VAL:HB	1.86	0.58
1:A:445:SER:OG	1:A:446:GLU:OE1	2.20	0.58
1:A:897:TYR:HE1	2:Z:96:VAL:HG11	1.68	0.58
1:P:617:LEU:HD23	1:Q:1033:LYS:HZ1	1.69	0.58
1:Q:939:THR:N	1:Q:942:THR:OG1	2.31	0.58
1:S:1053:ILE:O	1:S:1056:THR:OG1	2.21	0.58
2:H:73:ASN:O	2:H:76:THR:OG1	2.21	0.58
1:C:632:ASP:HA	1:C:635:GLU:HB3	1.84	0.58
1:F:808:ARG:HG2	1:F:809:GLY:H	1.68	0.58
3:e:172:LEU:HD12	3:e:172:LEU:C	2.27	0.58
3:f:155:ALA:O	3:f:159:THR:OG1	2.19	0.58
2:D:80:THR:HG21	1:M:891:PRO:HG2	1.85	0.58
1:M:745:ASP:OD1	1:M:746:ASP:N	2.35	0.58
1:N:296:LYS:HD3	1:N:396:ALA:HB2	1.84	0.58
1:N:1227:ARG:NH1	1:N:1259:ALA:O	2.36	0.58
1:N:1321:GLN:OE1	1:N:1321:GLN:N	2.36	0.58
1:R:961:TYR:CE2	1:R:963:ALA:HB2	2.38	0.58
1:S:962:GLN:HG2	1:S:965:ASP:HB2	1.84	0.58
1:B:872:GLU:HG2	2:H:105:ARG:HH12	1.67	0.58
4:k:59:THR:HG21	4:k:201:ILE:HG13	1.85	0.58
1:M:157:ASN:OD1	1:M:170:ARG:NH1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:296:LYS:NZ	1:M:394:LEU:O	2.37	0.58
1:N:877:PRO:HA	1:N:882:HIS:CG	2.39	0.58
2:Y:99:LYS:HE2	1:Q:967:THR:HG21	1.84	0.58
1:S:934:ASP:OD2	1:S:1049:LYS:NZ	2.33	0.58
1:T:1016:ASN:HD21	1:T:1023:GLN:HB2	1.67	0.58
4:p:176:ASP:OD1	4:p:176:ASP:N	2.36	0.58
1:A:688:MET:HG2	1:A:825:TRP:CZ3	2.39	0.58
1:N:1319:ALA:HB1	1:N:1332:ARG:HH12	1.69	0.58
1:P:108:GLN:HG2	1:P:133:VAL:HG22	1.85	0.58
1:T:725:THR:HB	1:T:740:ASN:ND2	2.19	0.58
1:U:1301:VAL:HG13	1:U:1303:THR:HG22	1.84	0.58
1:B:637:ARG:O	1:B:962:GLN:NE2	2.34	0.58
1:E:757:ASP:OD2	1:E:820:HIS:N	2.34	0.58
1:E:938:ALA:HB1	1:E:1158:LEU:HB3	1.84	0.58
3:e:172:LEU:HD12	3:e:173:ARG:CA	2.33	0.58
4:o:106:LEU:HB2	4:o:305:VAL:HB	1.86	0.58
4:n:192:GLN:OE1	4:n:194:ARG:NE	2.37	0.58
1:N:997:ASN:HD22	1:O:823:ARG:HH11	1.50	0.58
1:N:1248:HIS:NE2	1:N:1266:SER:OG	2.37	0.58
1:O:118:ARG:HH21	1:O:122:HIS:CD2	2.21	0.58
1:Q:972:THR:HG23	1:Q:973:PHE:HD1	1.69	0.58
1:S:764:GLU:O	1:S:767:ARG:NH1	2.36	0.58
1:C:721:ILE:HD11	1:C:1044:LEU:HD11	1.86	0.58
1:E:512:THR:O	1:E:776:SER:OG	2.20	0.58
1:F:128:VAL:O	1:F:129:HIS:ND1	2.34	0.58
1:F:1273:ASP:OD1	1:F:1277:ASN:ND2	2.35	0.58
3:e:138:ALA:HB3	3:e:295:VAL:HG21	1.85	0.58
1:A:1053:ILE:O	1:A:1056:THR:OG1	2.20	0.58
1:M:41:VAL:HG11	1:S:132:MET:HE3	1.86	0.58
1:M:574:LEU:HB3	1:M:948:TYR:OH	2.04	0.58
1:M:784:LEU:HB2	1:M:802:ILE:HG22	1.86	0.58
2:Y:52:ASP:O	2:Y:56:ILE:HG13	2.03	0.58
1:T:634:PHE:HA	1:T:959:MET:HE3	1.86	0.58
1:F:939:THR:OG1	1:F:942:THR:OG1	2.19	0.58
1:G:630:VAL:O	1:G:633:THR:OG1	2.16	0.58
1:G:808:ARG:HG2	2:L:85:GLU:H	1.69	0.58
1:G:861:ALA:HB3	1:G:894:LEU:HG	1.86	0.58
4:m:305:VAL:HG22	4:m:311:THR:HG21	1.86	0.58
1:M:1315:ALA:HB2	1:M:1346:LEU:HD13	1.86	0.58
1:O:623:THR:HG22	1:O:625:ALA:H	1.69	0.58
1:P:938:ALA:O	1:P:1158:LEU:N	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:880:PRO:O	1:T:888:GLN:NE2	2.34	0.58
1:B:299:LEU:HD13	1:B:304:LEU:HD11	1.85	0.58
1:F:763:ASP:OD1	1:F:764:GLU:N	2.36	0.58
3:f:242:LEU:HD23	3:f:245:MET:CE	2.34	0.58
4:m:78:ILE:HD11	4:m:81:LYS:HE3	1.86	0.58
1:A:320:MET:SD	1:A:338:ARG:NE	2.76	0.57
2:V:86:THR:HA	2:V:95:THR:HG21	1.86	0.57
1:N:315:VAL:HG23	1:N:377:ASN:HA	1.86	0.57
1:N:429:ASN:OD1	1:N:430:SER:N	2.37	0.57
1:O:119:ASP:OD1	1:O:120:GLY:N	2.37	0.57
1:Q:651:HIS:CE1	1:Q:653:ASN:HB2	2.39	0.57
1:Q:683:ASN:HD21	1:Q:685:HIS:HB2	1.68	0.57
1:S:469:LEU:HD13	1:S:1143:ASN:HB2	1.85	0.57
1:E:419:PHE:HB3	1:E:1353:PRO:HD3	1.85	0.57
1:G:523:PHE:HA	1:G:527:TRP:HB2	1.86	0.57
1:G:595:ASN:HA	1:G:1050:PHE:CE2	2.39	0.57
4:j:46:ALA:HA	4:j:134:ILE:HG13	1.85	0.57
1:z:414:ASN:HA	1:z:1078:ALA:HA	1.86	0.57
1:A:461:ASN:OD1	1:A:462:LYS:N	2.29	0.57
1:M:1364:THR:HG22	1:M:1365:ALA:H	1.69	0.57
1:N:231:LEU:HD21	1:N:1232:LEU:HD22	1.86	0.57
1:O:119:ASP:O	1:O:122:HIS:ND1	2.33	0.57
1:P:524:MET:O	1:P:999:ARG:NH1	2.37	0.57
1:R:770:LEU:O	1:R:946:ARG:NH2	2.37	0.57
1:U:1025:VAL:O	1:U:1029:VAL:HG23	2.03	0.57
1:G:510:GLU:OE1	1:G:774:ARG:NH2	2.36	0.57
1:G:996:THR:OG1	1:G:999:ARG:NH1	2.37	0.57
3:e:242:LEU:HD23	3:e:245:MET:CE	2.34	0.57
4:q:208:LEU:O	4:q:211:SER:OG	2.21	0.57
4:q:216:CYS:O	4:q:220:LEU:HG	2.04	0.57
1:A:1354:LEU:N	1:A:1384:ASP:HB3	2.18	0.57
1:N:764:GLU:OE1	1:N:823:ARG:NH2	2.37	0.57
1:P:663:LEU:HB2	1:P:909:ALA:HB1	1.85	0.57
1:P:1358:ASP:HB3	1:P:1361:MET:HG3	1.85	0.57
1:Q:1067:ILE:HD11	1:Q:1208:ALA:HB1	1.86	0.57
1:T:624:PRO:HA	1:T:627:ILE:HB	1.84	0.57
1:T:644:TYR:HB3	1:T:974:PHE:CZ	2.39	0.57
1:U:246:THR:HA	1:U:249:ALA:HB2	1.85	0.57
1:C:25:ILE:H	1:C:25:ILE:HD12	1.69	0.57
3:f:138:ALA:HB3	3:f:295:VAL:HG21	1.85	0.57
3:g:242:LEU:HD23	3:g:245:MET:CE	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:357:LEU:HD12	3:h:358:LEU:CD1	2.23	0.57
4:r:11:LEU:HD21	4:r:82:LEU:HB2	1.85	0.57
1:R:1206:PHE:O	1:R:1276:TYR:OH	2.19	0.57
1:S:642:ILE:HD12	1:S:645:MET:HE3	1.86	0.57
1:S:1313:MET:HA	1:S:1316:LYS:HE3	1.85	0.57
1:C:329:THR:HA	1:C:333:MET:HE3	1.86	0.57
1:C:741:ASN:OD1	1:C:742:ILE:N	2.36	0.57
1:C:785:HIS:ND1	1:C:811:THR:O	2.30	0.57
1:E:770:LEU:HD12	1:E:943:ARG:HD2	1.86	0.57
1:G:87:LEU:HA	1:G:288:VAL:HG21	1.86	0.57
3:f:131:PHE:CE2	3:f:136:GLU:HG3	2.39	0.57
4:k:32:THR:OG1	4:k:69:ARG:NH1	2.37	0.57
4:l:155:ARG:HG2	4:l:159:ARG:HH11	1.68	0.57
1:z:1225:ARG:NH1	1:z:1267:GLN:O	2.36	0.57
1:A:323:GLN:HA	1:A:327:LEU:HB2	1.86	0.57
1:A:637:ARG:O	1:A:962:GLN:NE2	2.38	0.57
1:O:937:ALA:O	1:O:942:THR:OG1	2.20	0.57
1:O:1231:MET:SD	1:O:1310:ARG:NH2	2.78	0.57
1:P:1074:GLN:NE2	1:P:1289:TYR:OH	2.36	0.57
1:U:648:ALA:HB2	1:U:956:LEU:HD11	1.87	0.57
2:d:47:ARG:HG3	2:d:48:VAL:HG13	1.87	0.57
1:B:675:SER:OG	1:B:677:ARG:NH1	2.36	0.57
1:C:1184:ILE:HD11	4:p:242:THR:HG21	1.87	0.57
4:o:116:PRO:CB	4:o:117:PRO:HD2	2.35	0.57
1:z:1238:ASP:OD1	1:z:1239:ALA:N	2.37	0.57
1:A:510:GLU:OE1	1:A:774:ARG:NH2	2.38	0.57
1:N:219:GLU:O	1:N:221:HIS:N	2.36	0.57
1:P:683:ASN:HB3	1:P:686:MET:HG2	1.85	0.57
1:P:1270:SER:OG	1:P:1271:TYR:N	2.36	0.57
2:Z:42:LEU:O	2:Z:47:ARG:NH2	2.37	0.57
1:S:877:PRO:HA	1:S:882:HIS:CG	2.40	0.57
1:U:409:TYR:HD2	1:U:412:ILE:HG22	1.68	0.57
1:B:1307:THR:HG1	1:B:1310:ARG:HE	1.49	0.57
1:C:192:THR:OG1	1:C:1116:ARG:NH1	2.24	0.57
1:C:769:ARG:NH1	1:C:934:ASP:OD2	2.38	0.57
1:G:230:LEU:O	1:G:234:LEU:HG	2.05	0.57
1:G:1232:LEU:HD11	1:G:1311:LEU:HD11	1.86	0.57
3:f:441:GLY:C	3:f:442:THR:HG23	2.28	0.57
3:g:311:LEU:CD2	3:g:357:LEU:HD11	2.35	0.57
3:h:420:THR:HA	4:r:256:PRO:HG2	1.86	0.57
1:N:596:GLY:HA2	1:N:608:ARG:HH12	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:194:ASP:OD1	1:Q:402:TYR:OH	2.23	0.57
1:Q:1179:THR:HG22	1:Q:1181:PRO:HD2	1.87	0.57
1:R:1073:ARG:HH21	1:R:1141:MET:HB3	1.68	0.57
1:B:216:PHE:HB3	1:B:230:LEU:HD12	1.87	0.57
1:C:58:ASP:OD1	1:C:60:SER:OG	2.20	0.57
1:E:594:ILE:HD12	1:E:1047:TYR:HA	1.86	0.57
1:F:475:MET:HE3	1:F:1059:LEU:HB2	1.87	0.57
3:i:242:LEU:HD23	3:i:245:MET:CE	2.34	0.57
2:D:28:THR:HA	2:D:31:ALA:HB3	1.87	0.57
1:Q:885:HIS:HB3	1:Q:888:GLN:HE22	1.69	0.57
1:R:398:GLU:HB3	1:R:409:TYR:CD1	2.40	0.57
1:R:622:MET:H	1:R:1037:ASN:HD21	1.53	0.57
2:d:86:THR:HA	2:d:95:THR:HG21	1.87	0.57
1:B:292:THR:OG1	1:B:398:GLU:OE1	2.16	0.57
1:C:1198:ARG:NH2	1:E:1254:ALA:O	2.32	0.57
1:F:507:TYR:OH	1:F:575:PRO:O	2.22	0.57
1:F:1227:ARG:NH2	1:F:1250:GLN:O	2.37	0.57
1:G:290:VAL:HG12	1:G:1083:LEU:HB3	1.85	0.57
4:l:278:ILE:HD11	4:q:288:LEU:HD13	1.86	0.57
1:M:288:VAL:HG12	1:M:393:PHE:HB2	1.85	0.57
1:M:1358:ASP:HB3	1:M:1361:MET:HG3	1.86	0.57
1:N:98:GLU:OE1	1:N:98:GLU:N	2.38	0.57
1:N:653:ASN:OD1	1:N:654:GLU:N	2.38	0.57
1:O:1260:THR:HG21	1:O:1266:SER:OG	2.05	0.57
1:R:420:ILE:HG22	1:R:1072:VAL:HG22	1.87	0.57
1:S:679:ALA:O	1:S:707:TYR:OH	2.23	0.57
1:T:862:VAL:HG21	1:T:913:LEU:HD21	1.87	0.57
1:U:409:TYR:O	1:U:411:LEU:N	2.35	0.57
1:U:1146:GLN:OE1	1:U:1147:ASN:N	2.38	0.57
1:U:1303:THR:HA	1:U:1306:ASN:HB2	1.86	0.57
1:E:607:PHE:CE2	1:E:1066:GLY:HA2	2.39	0.57
1:E:619:ARG:HD3	1:F:1033:LYS:HE3	1.85	0.57
1:E:807:VAL:HG23	1:E:808:ARG:HG3	1.86	0.57
2:J:10:VAL:HG11	2:J:36:LEU:HD22	1.86	0.57
1:G:1028:HIS:O	1:G:1032:SER:OG	2.13	0.57
3:g:286:ARG:NH2	3:g:293:ARG:NH1	2.53	0.57
1:Q:962:GLN:HG2	1:Q:963:ALA:N	2.19	0.57
1:T:510:GLU:OE1	1:T:774:ARG:NE	2.38	0.57
1:T:718:ARG:HE	1:T:827:ILE:HG21	1.70	0.57
2:c:29:PRO:O	2:c:33:ILE:N	2.33	0.57
1:U:384:LEU:HD23	1:U:393:PHE:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1078:ALA:HB2	1:E:1138:LEU:HD21	1.86	0.57
1:F:238:VAL:HG11	1:F:1347:PHE:HE2	1.70	0.57
1:F:649:VAL:HG11	1:F:859:LEU:HD22	1.87	0.57
1:F:825:TRP:O	1:F:829:SER:OG	2.14	0.57
4:j:43:VAL:O	4:j:49:SER:OG	2.20	0.57
4:k:106:LEU:HB2	4:k:305:VAL:HB	1.85	0.57
1:M:653:ASN:OD1	1:M:656:ASN:N	2.24	0.56
1:U:962:GLN:HG3	1:U:964:TYR:H	1.69	0.56
1:E:652:GLY:O	1:E:689:TYR:OH	2.17	0.56
1:F:297:ARG:HG2	1:F:301:GLN:HE21	1.69	0.56
3:h:362:ARG:HH21	3:h:434:TYR:HH	1.53	0.56
4:r:126:ARG:HA	4:r:133:GLU:HG2	1.86	0.56
1:N:322:LEU:HA	1:N:326:ASN:HD21	1.70	0.56
1:N:386:ILE:HG12	1:N:391:LEU:HD12	1.86	0.56
1:P:213:ILE:O	1:P:217:GLN:NE2	2.33	0.56
1:S:274:ARG:NH1	1:S:275:ILE:O	2.34	0.56
1:T:443:THR:HG21	1:T:449:PRO:HD2	1.87	0.56
1:U:197:LEU:HD23	1:U:200:LEU:HD12	1.87	0.56
2:H:13:PRO:HB3	2:H:45:GLY:HA2	1.87	0.56
1:E:1353:PRO:HA	1:E:1384:ASP:OD2	2.05	0.56
1:F:290:VAL:HG13	1:F:411:LEU:HD11	1.87	0.56
3:h:138:ALA:HB3	3:h:295:VAL:HG21	1.85	0.56
1:z:285:VAL:HA	1:z:391:LEU:HB2	1.88	0.56
1:A:278:THR:OG1	1:A:312:ASP:OD1	2.21	0.56
1:A:745:ASP:OD1	1:A:747:THR:N	2.38	0.56
1:M:884:LEU:HD11	1:M:899:HIS:HB2	1.88	0.56
1:N:197:LEU:HD11	1:N:290:VAL:HG11	1.87	0.56
1:N:979:VAL:HG23	1:N:1013:LEU:HD22	1.86	0.56
1:O:922:GLU:OE2	1:O:923:ARG:NH1	2.38	0.56
1:O:1030:THR:HB	1:O:1031:HIS:HD2	1.70	0.56
1:P:47:ILE:HG22	1:P:48:PHE:H	1.70	0.56
1:P:961:TYR:CE2	1:P:963:ALA:HB2	2.41	0.56
1:P:1159:HIS:HB2	1:P:1162:VAL:HG23	1.86	0.56
1:R:661:LEU:HD22	1:R:694:LEU:HD21	1.87	0.56
1:S:268:PRO:HA	1:S:1086:GLU:HG2	1.87	0.56
1:S:1369:GLU:OE1	1:S:1370:THR:N	2.39	0.56
1:T:266:THR:OG1	1:T:1086:GLU:OE1	2.23	0.56
1:T:1200:GLN:NE2	1:T:1326:THR:OG1	2.37	0.56
1:U:710:LEU:O	1:U:714:VAL:HG23	2.05	0.56
1:U:772:ALA:HB3	1:U:930:SER:HB2	1.86	0.56
1:B:769:ARG:NH2	1:B:932:ALA:O	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1074:GLN:HE22	1:B:1294:LYS:HE2	1.70	0.56
1:C:420:ILE:HD11	1:C:1222:CYS:SG	2.46	0.56
1:E:1099:VAL:HG12	1:E:1112:LEU:HG	1.87	0.56
1:F:742:ILE:HG13	1:F:743:LEU:HD22	1.86	0.56
3:e:439:LEU:HD12	3:e:439:LEU:C	2.30	0.56
4:o:294:LEU:HD22	4:o:313:VAL:HG23	1.88	0.56
4:k:217:LEU:HD13	4:p:249:THR:HG21	1.87	0.56
4:p:5:PHE:HB3	4:p:86:ALA:HB3	1.86	0.56
4:l:78:ILE:HG13	4:l:80:GLY:H	1.69	0.56
4:r:63:LEU:HD23	4:r:67:ARG:HH12	1.70	0.56
4:r:208:LEU:O	4:r:211:SER:OG	2.23	0.56
4:n:52:ILE:HG23	4:n:53:ASN:H	1.70	0.56
1:A:729:GLU:OE2	1:A:1057:HIS:NE2	2.37	0.56
1:O:938:ALA:O	1:O:1158:LEU:N	2.38	0.56
1:O:1207:VAL:HG22	1:O:1276:TYR:HE2	1.69	0.56
1:Q:514:ASP:OD1	1:Q:514:ASP:N	2.38	0.56
1:S:1152:ARG:NH2	1:S:1186:GLY:H	2.02	0.56
1:B:409:TYR:CE2	1:B:411:LEU:HB2	2.40	0.56
1:C:579:ARG:HD3	1:C:580:PRO:HD2	1.88	0.56
1:E:87:LEU:HD21	1:E:196:LEU:HD22	1.86	0.56
1:G:1117:ALA:O	1:G:1118:HIS:ND1	2.37	0.56
4:j:97:PHE:HE2	4:j:310:ARG:HH11	1.52	0.56
4:l:117:PRO:HA	4:l:138:LEU:HD11	1.86	0.56
3:h:155:ALA:O	3:h:159:THR:OG1	2.19	0.56
4:r:58:ASP:N	4:r:61:SER:OG	2.31	0.56
1:z:1358:ASP:HB3	1:z:1361:MET:HG2	1.87	0.56
1:A:923:ARG:HH12	1:A:925:THR:HG23	1.70	0.56
1:P:596:GLY:O	1:P:608:ARG:NH2	2.39	0.56
1:Q:1114:GLN:OE1	1:Q:1116:ARG:NH2	2.30	0.56
1:R:890:VAL:HG21	2:a:27:TYR:CE1	2.33	0.56
1:U:865:PRO:HG3	1:U:888:GLN:HG2	1.86	0.56
1:F:908:ASP:OD2	2:K:104:PRO:HD2	2.05	0.56
1:F:1262:ASN:OD1	1:F:1265:ALA:N	2.39	0.56
1:G:608:ARG:HD3	1:G:1028:HIS:CD2	2.41	0.56
3:f:159:THR:O	4:p:266:ARG:NH2	2.39	0.56
4:s:144:LEU:HD21	4:s:180:TYR:CG	2.41	0.56
1:z:140:SER:OG	1:z:1113:THR:OG1	2.22	0.56
1:z:211:SER:HB2	1:z:237:ARG:HH21	1.71	0.56
1:A:163:THR:HG23	1:A:165:ILE:H	1.69	0.56
1:A:669:ARG:HH12	1:A:700:PRO:HD3	1.70	0.56
1:A:1097:ILE:HG12	1:A:1114:GLN:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:235:LYS:NZ	1:N:1233:TYR:OH	2.33	0.56
1:O:455:GLN:HG3	1:O:471:LEU:HD12	1.88	0.56
1:R:118:ARG:HH21	1:R:122:HIS:CG	2.23	0.56
1:R:234:LEU:O	1:R:238:VAL:HG23	2.06	0.56
1:R:1097:ILE:HD11	1:R:1112:LEU:HD23	1.87	0.56
1:R:1252:ASP:OD1	1:R:1253:VAL:N	2.38	0.56
1:R:1337:THR:HG21	1:S:121:PRO:HG2	1.88	0.56
1:C:611:ARG:NH1	1:C:1064:HIS:O	2.37	0.56
1:E:480:HIS:CD2	1:E:482:SER:H	2.23	0.56
1:E:1023:GLN:NE2	1:E:1023:GLN:O	2.39	0.56
1:F:914:GLN:OE1	1:F:914:GLN:N	2.38	0.56
3:g:268:GLN:HB2	3:g:271:LEU:HD11	1.87	0.56
3:g:439:LEU:HD12	3:g:439:LEU:C	2.30	0.56
4:l:74:ILE:HG23	4:l:82:LEU:HD11	1.88	0.56
1:P:591:LEU:HD22	1:P:593:ILE:HD13	1.88	0.56
1:Q:939:THR:H	1:Q:942:THR:HG1	1.51	0.56
1:S:781:TYR:HA	1:S:799:ASN:HB2	1.88	0.56
1:T:488:ALA:HA	1:T:491:VAL:HG22	1.87	0.56
1:T:1092:TYR:OH	1:T:1116:ARG:NH1	2.34	0.56
1:B:848:MET:N	1:B:956:LEU:O	2.39	0.56
1:C:263:VAL:HG21	1:C:387:VAL:HG11	1.87	0.56
1:F:659:ALA:O	1:F:912:THR:OG1	2.24	0.56
2:K:93:ARG:HH12	2:L:33:ILE:HD13	1.70	0.56
1:G:854:ARG:HG2	2:L:54:ARG:HH12	1.70	0.56
4:j:15:LEU:HD11	4:j:127:LEU:HD11	1.88	0.56
3:f:157:THR:HG23	4:p:268:PHE:HD2	1.69	0.56
1:M:75:ASN:HB3	1:R:35:VAL:HB	1.87	0.56
1:M:136:ILE:HG22	1:M:1119:VAL:HB	1.88	0.56
1:N:65:GLN:HE22	3:h:290:THR:HG22	1.70	0.56
1:O:976:PRO:HG3	1:O:989:LEU:HA	1.87	0.56
1:P:927:ILE:HD11	1:P:953:TYR:HB2	1.87	0.56
1:Q:121:PRO:HB2	3:h:273:ASN:HD22	1.71	0.56
1:Q:735:THR:OG1	1:Q:737:GLU:OE2	2.22	0.56
1:S:1206:PHE:O	1:S:1276:TYR:OH	2.21	0.56
1:U:1219:ARG:NH1	1:U:1374:GLU:OE2	2.38	0.56
1:F:594:ILE:HG13	1:F:596:GLY:H	1.69	0.56
2:K:15:ASN:N	2:K:16:PRO:HD2	2.20	0.56
2:K:96:VAL:HG11	1:G:897:TYR:HE1	1.71	0.56
4:o:155:ARG:HD3	4:o:158:GLU:HB3	1.87	0.56
3:f:423:PHE:HE1	4:k:227:LEU:HD11	1.71	0.56
4:r:294:LEU:HD23	4:r:313:VAL:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:435:THR:HG23	1:O:1376:HIS:HD2	1.71	0.56
1:P:1016:ASN:HD21	1:P:1023:GLN:HB2	1.69	0.56
1:R:167:SER:O	1:R:171:ILE:HG13	2.06	0.56
1:T:312:ASP:HB2	1:T:377:ASN:HB3	1.88	0.56
1:T:939:THR:HG22	1:T:1157:MET:HA	1.87	0.56
1:B:503:TYR:HE1	1:B:567:VAL:HG12	1.70	0.56
1:G:1055:LEU:HD12	1:G:1059:LEU:HB2	1.88	0.56
3:g:423:PHE:H	4:q:217:LEU:HD11	1.71	0.56
1:z:207:LEU:HD11	1:z:262:MET:HB2	1.87	0.56
1:M:274:ARG:HD3	1:M:275:ILE:H	1.70	0.56
1:O:509:ALA:N	1:O:1011:PRO:O	2.39	0.56
1:O:961:TYR:CE2	1:O:963:ALA:HB2	2.41	0.56
1:T:623:THR:HB	1:T:626:THR:HG23	1.88	0.56
2:c:12:ASP:HB2	2:c:15:ASN:CG	2.30	0.56
1:U:705:ASN:OD1	1:B:677:ARG:NH2	2.26	0.56
1:U:784:LEU:HD12	1:U:785:HIS:H	1.71	0.56
1:B:1301:VAL:HG12	1:B:1303:THR:H	1.71	0.56
1:E:770:LEU:O	1:E:946:ARG:NH2	2.38	0.56
1:F:486:VAL:O	1:F:490:LEU:N	2.32	0.56
4:j:112:ILE:HB	4:j:294:LEU:HB3	1.88	0.56
3:f:268:GLN:HB2	3:f:271:LEU:HD11	1.87	0.56
4:n:69:ARG:O	4:s:295:ARG:NH2	2.34	0.56
1:z:243:PHE:HZ	1:z:1134:LEU:HD13	1.71	0.56
1:z:1235:GLY:HA2	1:z:1349:GLU:HG3	1.88	0.56
1:A:645:MET:HB3	1:A:855:LEU:HD21	1.88	0.55
1:M:538:VAL:HG21	1:M:1006:VAL:HG12	1.89	0.55
1:M:1114:GLN:OE1	1:M:1116:ARG:NH2	2.39	0.55
1:N:736:SER:OG	1:N:737:GLU:N	2.39	0.55
1:N:851:ARG:NH1	1:N:972:THR:O	2.38	0.55
1:N:1105:ILE:HG23	4:q:97:PHE:CG	2.41	0.55
1:O:789:MET:HG2	1:O:917:MET:HB3	1.88	0.55
1:O:876:THR:HG22	1:O:878:GLU:H	1.71	0.55
1:R:927:ILE:HD11	1:R:953:TYR:HD2	1.71	0.55
2:b:49:ASP:HB2	2:b:52:ASP:HB2	1.88	0.55
1:U:89:VAL:HG12	1:U:277:HIS:CG	2.42	0.55
1:U:522:ARG:NH1	1:U:578:GLN:OE1	2.38	0.55
1:U:655:ARG:HB2	1:U:807:VAL:HG12	1.87	0.55
1:U:1095:GLY:HA3	1:U:1115:PRO:HD2	1.88	0.55
1:C:648:ALA:O	1:C:852:TYR:OH	2.15	0.55
1:E:427:GLN:HE21	1:E:1215:LEU:HD12	1.70	0.55
1:E:846:CYS:SG	1:E:847:THR:N	2.80	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:227:ARG:HH22	1:F:1234:MET:HA	1.70	0.55
1:F:775:VAL:HG21	1:F:781:TYR:HB3	1.87	0.55
1:F:847:THR:HG22	1:F:957:ILE:HA	1.87	0.55
1:G:762:ARG:NH2	1:G:772:ALA:O	2.39	0.55
1:z:1160:ASP:HB2	1:z:1164:GLU:HB3	1.87	0.55
1:R:611:ARG:HH22	1:R:1066:GLY:N	2.05	0.55
1:S:522:ARG:H	1:S:522:ARG:HD2	1.71	0.55
1:S:775:VAL:HG11	1:S:801:LEU:HD11	1.87	0.55
1:U:882:HIS:CD2	1:U:884:LEU:H	2.25	0.55
1:B:995:MET:O	1:B:1000:ARG:NH2	2.34	0.55
1:C:63:SER:O	1:C:63:SER:OG	2.23	0.55
1:C:404:ALA:O	1:E:113:GLN:NE2	2.38	0.55
1:C:942:THR:HA	1:C:945:MET:HE3	1.89	0.55
1:C:1120:ASP:OD1	1:C:1122:GLY:N	2.33	0.55
1:E:291:THR:OG1	1:E:292:THR:N	2.35	0.55
1:F:112:GLN:HG2	1:F:129:HIS:CE1	2.41	0.55
1:F:1109:ASN:HD22	1:G:126:GLN:HE21	1.53	0.55
4:j:100:ASN:ND2	4:j:305:VAL:HG11	2.21	0.55
1:A:871:GLU:OE2	1:A:881:ARG:NH1	2.37	0.55
2:V:98:LEU:HD13	1:O:896:VAL:HG23	1.88	0.55
1:N:743:LEU:HD13	1:N:831:ILE:HG12	1.89	0.55
1:O:962:GLN:HG2	1:O:965:ASP:HB2	1.87	0.55
1:U:591:LEU:HD22	1:U:945:MET:HE2	1.86	0.55
1:C:872:GLU:HB2	2:I:107:ILE:HD13	1.87	0.55
3:e:442:THR:HG22	3:e:443:ILE:N	2.20	0.55
4:q:221:ALA:HA	4:q:255:ILE:HG21	1.88	0.55
1:z:1082:LEU:HD22	1:z:1130:ALA:HB3	1.87	0.55
1:P:98:GLU:OE1	1:P:98:GLU:N	2.39	0.55
1:P:882:HIS:CD2	1:P:884:LEU:H	2.19	0.55
1:R:243:PHE:O	1:R:247:ARG:NH1	2.40	0.55
1:T:627:ILE:HD12	1:T:1036:PHE:CE2	2.39	0.55
1:U:927:ILE:HD11	1:U:953:TYR:HB2	1.88	0.55
2:H:18:THR:HB	2:H:56:ILE:HG23	1.88	0.55
2:H:91:TRP:HE3	2:I:54:ARG:HE	1.53	0.55
1:E:96:PHE:HD1	1:E:320:MET:HB2	1.72	0.55
1:F:449:PRO:HB2	1:G:431:MET:HE2	1.88	0.55
1:F:1307:THR:OG1	1:F:1310:ARG:HG2	2.06	0.55
1:G:242:MET:HE1	1:G:1343:PRO:HG2	1.87	0.55
1:G:498:LEU:HD23	1:G:498:LEU:H	1.71	0.55
4:o:95:GLY:HA2	4:o:314:ILE:HG13	1.89	0.55
1:A:539:ASN:HD22	1:A:541:HIS:CE1	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:796:ARG:HB2	1:N:923:ARG:HE	1.71	0.55
1:N:1171:ALA:HB1	1:N:1177:ASN:HD22	1.69	0.55
1:R:1270:SER:OG	1:R:1271:TYR:N	2.39	0.55
1:S:288:VAL:HG23	1:S:393:PHE:HB2	1.88	0.55
1:U:508:VAL:HG11	1:U:948:TYR:HD2	1.70	0.55
2:d:39:SER:OG	2:d:40:GLY:N	2.39	0.55
1:B:778:ARG:CG	1:B:779:ASN:N	2.64	0.55
2:K:76:THR:HG23	2:K:104:PRO:HG2	1.89	0.55
2:K:93:ARG:HH22	2:L:33:ILE:HB	1.71	0.55
4:k:75:THR:HG22	4:k:76:ARG:H	1.72	0.55
3:h:231:MET:HG3	3:h:235:LEU:CD1	2.37	0.55
1:A:1232:LEU:HD21	1:A:1311:LEU:HD13	1.89	0.55
1:N:718:ARG:O	1:N:722:THR:HG23	2.07	0.55
1:S:675:SER:OG	1:S:677:ARG:NH1	2.38	0.55
1:S:907:GLY:HA2	1:S:910:LEU:HD12	1.89	0.55
1:U:682:ASN:ND2	1:U:957:ILE:O	2.29	0.55
1:B:620:HIS:HD2	1:B:713:HIS:HA	1.72	0.55
1:G:1326:THR:HG22	1:G:1328:TYR:H	1.72	0.55
4:j:100:ASN:HD22	4:j:305:VAL:HG11	1.70	0.55
4:p:294:LEU:HB3	4:p:313:VAL:HG21	1.89	0.55
1:z:1053:ILE:HG21	1:z:1162:VAL:HB	1.88	0.55
1:A:513:GLU:HG3	1:A:514:ASP:H	1.70	0.55
1:M:1016:ASN:OD1	1:M:1017:HIS:N	2.40	0.55
1:N:455:GLN:HE21	1:N:1064:HIS:HB2	1.71	0.55
1:N:924:THR:OG1	1:N:953:TYR:O	2.22	0.55
1:N:1141:MET:HE1	1:N:1392:LEU:HD21	1.87	0.55
1:N:1364:THR:HG21	1:N:1369:GLU:HB2	1.88	0.55
2:W:21:VAL:HA	2:W:24:ILE:HD12	1.89	0.55
1:O:1067:ILE:HD11	1:O:1208:ALA:HB1	1.89	0.55
1:P:617:LEU:HD23	1:Q:1033:LYS:NZ	2.21	0.55
1:R:660:LEU:HD11	1:R:916:LEU:HD21	1.87	0.55
1:U:490:LEU:HA	1:U:493:LEU:HB2	1.88	0.55
1:E:906:ASP:OD1	1:E:907:GLY:N	2.40	0.55
1:F:1147:ASN:HD22	1:F:1177:ASN:HA	1.72	0.55
1:M:32:THR:N	1:R:72:THR:O	2.39	0.55
1:M:41:VAL:HG21	1:S:111:VAL:HG11	1.89	0.55
1:P:882:HIS:HD2	1:P:884:LEU:N	2.03	0.55
1:T:96:PHE:HD1	1:T:320:MET:HB2	1.71	0.55
1:U:774:ARG:HB3	1:U:928:LEU:HB3	1.89	0.55
1:B:708:ARG:NE	1:C:677:ARG:HH22	2.04	0.55
1:B:1271:TYR:O	1:B:1275:LEU:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:560:ASN:HB3	1:F:563:PHE:HB2	1.88	0.55
1:F:755:ASP:OD1	1:F:755:ASP:N	2.36	0.55
1:G:436:ARG:O	1:G:437:HIS:ND1	2.40	0.55
3:f:172:LEU:HD23	3:f:241:CYS:SG	2.47	0.55
3:g:307:VAL:CB	3:g:343:SER:HB3	2.28	0.55
4:m:89:VAL:HG11	4:r:299:PHE:HZ	1.71	0.55
1:M:1294:LYS:NZ	1:M:1342:ASP:OD2	2.36	0.55
1:N:846:CYS:HB3	1:N:988:HIS:ND1	2.22	0.55
1:N:880:PRO:HA	1:N:885:HIS:CD2	2.42	0.55
1:N:889:LEU:HD12	2:X:98:LEU:HD11	1.89	0.55
1:R:756:CYS:HB2	1:R:803:HIS:NE2	2.22	0.55
1:R:1185:PHE:CD2	3:f:311:LEU:HD13	2.41	0.55
1:T:980:ASN:HB3	1:T:983:PHE:HD2	1.71	0.55
1:C:511:GLY:O	1:C:777:GLY:N	2.39	0.55
1:C:1032:SER:OG	1:C:1034:SER:OG	2.23	0.55
1:F:640:PRO:HB2	1:F:642:ILE:HG22	1.89	0.55
2:K:98:LEU:HD21	2:K:102:PHE:HE2	1.71	0.55
4:k:206:LEU:HD21	4:p:236:VAL:HG12	1.88	0.55
4:p:176:ASP:O	4:p:187:LEU:N	2.29	0.55
4:n:157:VAL:O	4:n:161:ALA:N	2.39	0.55
1:M:429:ASN:O	1:M:433:ARG:NH2	2.35	0.55
1:N:958:MET:HE2	1:N:988:HIS:CE1	2.42	0.55
1:N:1268:LYS:HG3	1:N:1269:HIS:CD2	2.42	0.55
1:O:620:HIS:O	1:O:1041:TYR:OH	2.24	0.55
1:P:454:PRO:HG3	1:P:1379:GLN:HG2	1.89	0.55
1:Q:1332:ARG:NH2	1:Q:1336:SER:O	2.40	0.55
1:S:1193:SER:OG	1:S:1327:GLU:OE1	2.19	0.55
2:b:29:PRO:O	2:b:33:ILE:N	2.27	0.55
1:T:688:MET:HG2	1:T:825:TRP:CZ3	2.42	0.55
1:B:782:GLN:HB2	1:B:800:VAL:HG22	1.88	0.55
1:E:822:ASP:OD1	1:F:964:TYR:OH	2.14	0.55
1:F:384:LEU:HG	1:F:391:LEU:HD11	1.89	0.55
1:F:617:LEU:O	1:G:1033:LYS:NZ	2.34	0.55
1:G:592:ARG:HA	1:G:1022:ARG:NH1	2.17	0.55
1:G:1333:PRO:HG2	1:G:1336:SER:HB2	1.88	0.55
3:i:354:ILE:HG13	3:i:355:GLY:N	2.21	0.55
1:R:429:ASN:O	1:R:430:SER:OG	2.24	0.54
1:S:1260:THR:OG1	1:S:1261:LEU:N	2.39	0.54
1:U:690:ILE:HA	1:U:694:LEU:HD12	1.88	0.54
1:B:694:LEU:HD23	1:B:699:LEU:HD11	1.89	0.54
1:C:247:ARG:O	1:C:248:HIS:ND1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1051:THR:HG23	1:C:1052:PRO:HD2	1.89	0.54
1:C:1258:ARG:HD2	1:C:1261:LEU:HD22	1.88	0.54
1:E:877:PRO:HB3	1:E:884:LEU:HG	1.87	0.54
1:G:417:ILE:O	1:G:1075:ASP:N	2.40	0.54
4:j:50:TYR:HB3	4:j:57:PRO:HG3	1.89	0.54
4:j:305:VAL:HG23	4:j:309:ASP:HB3	1.89	0.54
3:f:271:LEU:HD12	3:f:271:LEU:O	2.07	0.54
2:V:94:PRO:HD2	1:O:858:ALA:HB2	1.87	0.54
1:N:291:THR:OG1	1:N:292:THR:N	2.40	0.54
1:N:1200:GLN:NE2	1:N:1323:SER:O	2.41	0.54
1:R:996:THR:H	1:R:999:ARG:HH21	1.53	0.54
1:T:149:SER:O	1:T:150:GLU:HG2	2.07	0.54
1:C:574:LEU:HG	1:C:575:PRO:HD2	1.89	0.54
1:C:655:ARG:HD2	2:I:83:PHE:HE2	1.72	0.54
1:C:886:ALA:HA	1:C:889:LEU:HD13	1.89	0.54
1:E:470:THR:HG23	1:E:472:ARG:H	1.73	0.54
1:E:848:MET:HE2	1:E:988:HIS:CD2	2.42	0.54
1:E:1372:ALA:HB1	1:E:1383:ARG:HH21	1.72	0.54
1:G:675:SER:HB3	1:G:677:ARG:HH11	1.72	0.54
1:M:949:ASP:OD1	1:M:950:GLY:N	2.40	0.54
1:Q:45:ARG:HD2	1:Q:45:ARG:O	2.08	0.54
2:b:25:ALA:HB3	2:b:28:THR:HG22	1.90	0.54
1:B:29:ILE:HG13	1:B:30:ILE:H	1.71	0.54
1:B:48:PHE:HD2	1:B:49:ASP:O	1.90	0.54
1:B:217:GLN:NE2	1:B:220:GLY:O	2.41	0.54
1:B:389:ASP:OD1	1:B:389:ASP:N	2.40	0.54
1:F:436:ARG:O	1:F:437:HIS:ND1	2.40	0.54
1:F:493:LEU:HD21	1:F:557:PHE:HE1	1.73	0.54
1:F:810:ASP:OD1	1:F:810:ASP:N	2.38	0.54
4:q:27:GLU:OE1	4:q:76:ARG:HA	2.06	0.54
4:s:305:VAL:HG22	4:s:311:THR:HG21	1.88	0.54
1:A:187:SER:OG	1:M:117:ALA:N	2.41	0.54
1:O:1354:LEU:N	1:O:1384:ASP:HB3	2.23	0.54
1:Q:1364:THR:HG23	1:Q:1366:HIS:H	1.70	0.54
1:R:867:ILE:HG21	2:a:105:ARG:NH1	2.23	0.54
1:S:595:ASN:HD21	1:S:611:ARG:HH22	1.54	0.54
1:S:744:THR:HA	1:S:827:ILE:HD12	1.90	0.54
1:S:1152:ARG:HH12	1:S:1185:PHE:HA	1.73	0.54
2:b:15:ASN:N	2:b:16:PRO:HD2	2.22	0.54
1:U:289:LEU:HD21	1:U:1082:LEU:HD11	1.89	0.54
1:U:697:GLY:HA3	1:B:674:GLN:CG	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:1092:TYR:OH	1:U:1116:ARG:NH1	2.37	0.54
1:B:791:GLY:O	1:B:793:ASN:ND2	2.39	0.54
1:B:924:THR:OG1	1:B:954:HIS:O	2.20	0.54
1:B:949:ASP:N	1:B:949:ASP:OD1	2.40	0.54
1:B:1049:LYS:O	1:B:1058:GLN:NE2	2.40	0.54
1:C:509:ALA:C	1:C:575:PRO:HB3	2.32	0.54
1:C:782:GLN:HB2	1:C:800:VAL:HG22	1.88	0.54
1:E:502:CYS:HA	1:E:533:HIS:CE1	2.42	0.54
1:F:516:LEU:HD21	1:F:993:ARG:HH12	1.72	0.54
1:G:645:MET:HE1	1:G:897:TYR:HD2	1.72	0.54
1:A:1312:LEU:O	1:A:1316:LYS:NZ	2.22	0.54
1:O:195:GLN:O	1:O:199:VAL:HG23	2.08	0.54
2:X:54:ARG:O	2:X:58:THR:HG23	2.08	0.54
2:Y:20:SER:O	2:Y:24:ILE:HG12	2.07	0.54
2:Y:54:ARG:O	2:Y:58:THR:HG23	2.07	0.54
1:U:1093:PHE:HB2	1:U:1117:ALA:HB3	1.88	0.54
1:B:489:THR:O	1:B:493:LEU:HB2	2.07	0.54
1:C:68:ILE:HD11	1:E:320:MET:HE1	1.90	0.54
1:C:463:ASP:OD2	1:C:1198:ARG:NH1	2.36	0.54
1:E:778:ARG:HE	1:E:798:ASP:HA	1.71	0.54
1:F:563:PHE:HE2	1:F:945:MET:HE1	1.73	0.54
1:F:980:ASN:HD21	1:F:982:LEU:HD12	1.72	0.54
1:G:1139:THR:HG22	1:G:1200:GLN:HB3	1.89	0.54
4:q:101:THR:OG1	4:q:139:THR:N	2.34	0.54
4:m:272:GLU:OE1	4:m:272:GLU:N	2.41	0.54
3:i:183:TRP:CD1	3:i:183:TRP:H	2.26	0.54
1:A:509:ALA:N	1:A:1011:PRO:O	2.39	0.54
1:M:452:PHE:CD1	1:M:614:GLN:HB2	2.42	0.54
1:M:1146:GLN:HG2	1:M:1147:ASN:H	1.72	0.54
1:P:1372:ALA:HB1	1:P:1383:ARG:HH21	1.72	0.54
1:R:87:LEU:HA	1:R:288:VAL:HG11	1.90	0.54
1:R:996:THR:HG23	1:R:998:ALA:H	1.71	0.54
1:S:741:ASN:OD1	1:S:742:ILE:N	2.40	0.54
1:T:269:SER:OG	1:T:270:VAL:N	2.39	0.54
2:c:69:ARG:HH12	2:c:79:ARG:NH2	2.05	0.54
1:U:976:PRO:HG3	1:U:989:LEU:HA	1.88	0.54
1:B:286:ASP:OD2	1:B:390:LYS:HD2	2.08	0.54
1:C:1332:ARG:HH21	1:C:1336:SER:HB2	1.73	0.54
1:E:1058:GLN:HB3	1:E:1063:PHE:HD2	1.71	0.54
4:l:161:ALA:HB2	4:q:222:LEU:HD21	1.90	0.54
1:z:89:VAL:HB	1:z:277:HIS:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:488:ALA:HA	1:M:491:VAL:HG12	1.89	0.54
1:P:219:GLU:C	1:P:221:HIS:H	2.16	0.54
1:P:1109:ASN:OD1	1:Q:126:GLN:NE2	2.41	0.54
1:R:844:SER:HA	1:R:985:CYS:HB2	1.90	0.54
1:U:578:GLN:HG2	1:U:579:ARG:H	1.72	0.54
1:U:936:GLY:HA2	1:U:1053:ILE:HD13	1.90	0.54
1:U:1320:SER:N	1:U:1338:GLU:O	2.32	0.54
1:B:749:ILE:O	1:B:834:TYR:OH	2.15	0.54
1:E:284:GLN:HE22	1:E:1087:ARG:HH11	1.54	0.54
1:G:877:PRO:HA	1:G:882:HIS:CD2	2.42	0.54
3:f:183:TRP:CD1	3:f:183:TRP:H	2.26	0.54
4:r:73:VAL:HG13	4:r:87:ILE:HD11	1.88	0.54
1:z:233:ASP:O	1:z:237:ARG:HB2	2.07	0.54
1:z:277:HIS:CE1	1:z:313:VAL:HG22	2.42	0.54
1:A:480:HIS:CD2	1:A:482:SER:H	2.25	0.54
1:N:685:HIS:CE1	1:N:754:TRP:HD1	2.26	0.54
1:N:846:CYS:SG	1:N:847:THR:N	2.81	0.54
2:a:43:GLN:O	2:a:47:ARG:NH1	2.40	0.54
1:T:969:ALA:HB3	1:T:972:THR:HG23	1.89	0.54
1:U:748:PHE:HE2	1:U:834:TYR:HE2	1.55	0.54
1:U:1351:TYR:HB3	1:U:1386:SER:HA	1.90	0.54
1:B:651:HIS:NE2	1:B:656:ASN:OD1	2.41	0.54
1:G:824:GLU:O	1:G:828:LEU:HG	2.08	0.54
2:L:10:VAL:HG11	2:L:36:LEU:HD22	1.90	0.54
1:z:1078:ALA:HB3	1:z:1135:ARG:HB3	1.89	0.54
1:M:651:HIS:NE2	1:M:656:ASN:OD1	2.41	0.54
2:X:29:PRO:O	2:X:32:LEU:N	2.38	0.54
2:X:29:PRO:O	2:X:33:ILE:HG12	2.07	0.54
1:P:105:GLY:H	1:P:136:ILE:HG12	1.73	0.54
1:R:561:PRO:HG3	1:R:1264:TRP:CE3	2.43	0.54
2:b:28:THR:O	2:b:32:LEU:N	2.41	0.54
2:d:66:ALA:O	2:d:69:ARG:NE	2.41	0.54
1:B:299:LEU:HB3	1:B:304:LEU:HD12	1.88	0.54
1:B:872:GLU:OE2	2:H:105:ARG:NH2	2.40	0.54
1:C:934:ASP:OD1	1:C:935:ALA:N	2.41	0.54
1:E:1091:SER:HB3	1:E:1119:VAL:HG13	1.90	0.54
1:E:1217:TYR:CZ	1:E:1222:CYS:HB2	2.43	0.54
1:F:397:LEU:O	1:F:402:TYR:HB2	2.08	0.54
1:G:686:MET:HE2	1:G:686:MET:HA	1.89	0.54
4:l:159:ARG:HD2	4:l:194:ARG:HE	1.73	0.54
1:N:560:ASN:OD1	1:N:561:PRO:HD2	2.09	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:688:MET:HG2	1:N:825:TRP:CZ3	2.42	0.54
1:Q:671:TYR:HE1	1:Q:677:ARG:HB2	1.73	0.54
1:R:102:VAL:O	1:R:138:LYS:NZ	2.27	0.54
2:b:16:PRO:HA	2:b:20:SER:HB2	1.90	0.54
1:T:461:ASN:OD1	1:T:462:LYS:N	2.36	0.54
1:B:1068:ALA:HB2	1:B:1211:VAL:HG12	1.90	0.54
1:C:291:THR:OG1	1:C:292:THR:N	2.41	0.54
1:E:1257:ASP:OD1	1:E:1258:ARG:N	2.41	0.54
1:F:70:LEU:HB3	1:G:107:ILE:HG13	1.89	0.54
1:F:480:HIS:HA	1:F:1149:PHE:HE1	1.73	0.54
1:G:561:PRO:HB3	1:G:1264:TRP:CE2	2.43	0.54
4:o:72:ALA:HA	4:o:87:ILE:HG12	1.90	0.54
3:f:119:THR:OG1	3:f:120:GLN:N	2.38	0.54
4:p:149:ILE:HD13	4:p:289:GLY:HA3	1.90	0.54
3:g:271:LEU:HD12	3:g:271:LEU:O	2.07	0.54
3:g:356:PHE:CE2	3:g:357:LEU:CD2	2.90	0.54
3:i:191:LEU:HD21	3:i:271:LEU:CD1	2.37	0.54
1:A:67:ASP:OD2	1:M:103:ARG:NH2	2.41	0.53
1:A:1326:THR:OG1	1:A:1328:TYR:O	2.26	0.53
1:M:982:LEU:HD21	1:M:1029:VAL:HG21	1.89	0.53
1:M:1301:VAL:O	1:M:1304:ASN:ND2	2.41	0.53
2:V:91:TRP:CD1	2:V:91:TRP:H	2.25	0.53
1:N:290:VAL:HG12	1:N:411:LEU:HD11	1.91	0.53
1:O:214:ASN:ND2	1:O:217:GLN:OE1	2.40	0.53
2:X:53:ALA:HA	2:X:56:ILE:HD12	1.89	0.53
1:R:92:ILE:HG23	1:R:274:ARG:HH21	1.73	0.53
1:R:784:LEU:HD21	1:R:787:VAL:HG23	1.90	0.53
1:U:527:TRP:HE1	1:U:531:MET:HE2	1.73	0.53
1:E:461:ASN:N	1:E:465:ILE:O	2.32	0.53
1:E:1396:ARG:NH2	1:F:1385:ALA:O	2.41	0.53
1:F:291:THR:HG23	1:F:1082:LEU:HD13	1.89	0.53
1:F:552:ASN:HB3	1:F:555:LEU:HB2	1.89	0.53
1:G:384:LEU:HD12	1:G:391:LEU:HD11	1.89	0.53
1:G:925:THR:HG22	1:G:926:ALA:H	1.73	0.53
2:L:89:MET:N	2:L:89:MET:SD	2.81	0.53
4:q:192:GLN:HG3	4:q:193:HIS:H	1.73	0.53
4:q:233:ASP:OD1	4:q:234:GLY:N	2.41	0.53
4:m:218:LEU:HD21	4:m:274:ILE:HD13	1.89	0.53
1:A:420:ILE:HD11	1:A:1222:CYS:SG	2.48	0.53
2:D:75:ASN:HA	2:D:106:ILE:HD11	1.90	0.53
1:M:416:ASP:HB3	1:M:1074:GLN:HE21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:802:ILE:O	1:T:953:TYR:OH	2.25	0.53
1:U:732:ASN:ND2	1:U:1161:ASN:HD21	2.07	0.53
1:U:796:ARG:HD2	1:U:800:VAL:HB	1.90	0.53
1:U:1246:PHE:O	1:U:1248:HIS:ND1	2.42	0.53
1:C:664:LEU:O	1:C:668:ILE:HG12	2.09	0.53
1:C:850:VAL:HA	1:C:974:PHE:HD1	1.73	0.53
1:E:385:VAL:HG11	1:E:394:LEU:HD12	1.89	0.53
1:F:958:MET:SD	1:F:959:MET:N	2.81	0.53
1:F:1146:GLN:HB2	1:F:1205:GLU:OE2	2.08	0.53
1:F:1257:ASP:OD1	1:F:1258:ARG:N	2.41	0.53
1:G:267:GLN:NE2	1:G:1124:GLY:H	2.05	0.53
4:j:22:ALA:HA	4:j:25:LYS:HD3	1.89	0.53
4:p:218:LEU:HD23	4:p:270:ILE:HD11	1.89	0.53
4:q:200:ALA:O	4:q:204:LEU:HG	2.09	0.53
3:h:172:LEU:HD23	3:h:241:CYS:SG	2.47	0.53
3:h:183:TRP:CD1	3:h:183:TRP:H	2.26	0.53
4:r:16:SER:OG	4:r:19:GLU:HG3	2.07	0.53
1:N:774:ARG:HB3	1:N:928:LEU:HB3	1.88	0.53
1:P:52:LYS:O	1:P:54:ILE:N	2.41	0.53
1:P:389:ASP:C	1:P:390:LYS:HD3	2.34	0.53
1:Q:877:PRO:HA	1:Q:882:HIS:CG	2.43	0.53
2:a:21:VAL:HA	2:a:24:ILE:HD12	1.91	0.53
1:S:909:ALA:O	1:S:912:THR:HG22	2.08	0.53
1:U:502:CYS:SG	1:U:503:TYR:N	2.80	0.53
1:B:233:ASP:OD1	1:B:236:ARG:NH2	2.42	0.53
1:B:384:LEU:HB3	1:B:391:LEU:HD11	1.90	0.53
2:I:24:ILE:O	2:I:67:ARG:NH2	2.41	0.53
1:E:84:GLU:HB2	1:E:380:VAL:HG21	1.91	0.53
1:F:509:ALA:N	1:F:1011:PRO:O	2.41	0.53
1:G:1236:ASP:OD1	1:G:1237:ARG:N	2.41	0.53
3:e:476:ASN:N	4:j:111:TYR:HE2	2.06	0.53
4:o:115:LEU:HD11	4:o:116:PRO:HD2	1.81	0.53
1:M:96:PHE:HD1	1:M:320:MET:HB2	1.73	0.53
1:M:1135:ARG:NH2	1:O:215:LYS:O	2.41	0.53
1:R:65:GLN:NE2	1:S:103:ARG:HB2	2.24	0.53
1:R:688:MET:HG2	1:R:825:TRP:CZ3	2.43	0.53
1:S:586:THR:HG22	1:S:587:VAL:H	1.73	0.53
1:B:906:ASP:OD1	1:B:906:ASP:N	2.41	0.53
1:B:982:LEU:HD11	1:B:1021:ILE:HG21	1.90	0.53
1:C:1248:HIS:NE2	1:C:1260:THR:OG1	2.41	0.53
1:E:163:THR:N	1:E:166:ASP:OD2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1268:LYS:HG3	1:F:1269:HIS:CD2	2.43	0.53
1:F:1314:GLU:O	1:F:1314:GLU:HG3	2.08	0.53
3:i:187:GLU:HG2	3:i:188:GLY:N	2.24	0.53
1:z:251:GLU:HG3	1:z:254:LEU:HB2	1.89	0.53
1:z:389:ASP:N	1:z:389:ASP:OD1	2.40	0.53
1:A:1196:ILE:HD11	1:M:224:ARG:HB3	1.90	0.53
1:A:1325:ASP:O	1:M:224:ARG:NH1	2.42	0.53
1:M:882:HIS:CD2	1:M:884:LEU:H	2.27	0.53
1:Q:1217:TYR:CZ	1:Q:1222:CYS:HB2	2.44	0.53
1:R:782:GLN:OE1	1:R:784:LEU:N	2.39	0.53
1:T:188:PHE:HZ	1:T:1112:LEU:HB2	1.73	0.53
1:T:1120:ASP:OD1	1:T:1121:LEU:N	2.42	0.53
1:T:1169:ILE:O	1:T:1172:SER:OG	2.18	0.53
1:U:42:CYS:SG	1:U:43:ALA:N	2.80	0.53
1:U:305:GLN:HE21	1:U:386:ILE:HB	1.73	0.53
1:U:705:ASN:HA	1:U:708:ARG:HG2	1.90	0.53
1:U:930:SER:HB3	1:U:946:ARG:HD3	1.90	0.53
1:C:163:THR:OG1	1:C:164:GLU:N	2.41	0.53
1:E:1094:VAL:HG22	1:E:1116:ARG:HG2	1.89	0.53
3:f:226:TYR:CD2	3:f:231:MET:HE2	2.41	0.53
4:k:58:ASP:H	4:k:61:SER:HB2	1.74	0.53
3:g:183:TRP:CD1	3:g:183:TRP:H	2.26	0.53
3:h:126:SER:HB2	3:h:194:TYR:HB2	1.91	0.53
1:z:177:MET:HA	1:z:180:ASN:ND2	2.24	0.53
1:z:1290:SER:HB2	1:z:1293:PHE:HB2	1.90	0.53
1:M:1200:GLN:NE2	1:M:1328:TYR:O	2.30	0.53
1:N:718:ARG:HE	1:N:827:ILE:HG21	1.74	0.53
1:N:745:ASP:O	1:N:830:LYS:NZ	2.41	0.53
1:N:913:LEU:HA	1:N:916:LEU:HD13	1.88	0.53
1:Q:303:ILE:HG23	1:Q:304:LEU:HG	1.91	0.53
1:R:698:GLU:OE2	1:S:902:HIS:ND1	2.42	0.53
1:R:1056:THR:HG23	1:R:1169:ILE:HG21	1.89	0.53
1:S:35:VAL:HG12	1:S:37:SER:HB3	1.91	0.53
2:c:10:VAL:HG11	2:c:36:LEU:HD22	1.90	0.53
1:U:641:THR:HG21	1:U:968:ILE:HD11	1.90	0.53
1:U:926:ALA:HB1	1:U:1013:LEU:HD21	1.89	0.53
1:B:325:THR:O	1:B:329:THR:OG1	2.19	0.53
1:C:272:VAL:HG12	1:C:274:ARG:HG2	1.91	0.53
1:C:1194:ALA:HB1	1:E:1240:ASP:HB2	1.90	0.53
1:E:320:MET:HE3	1:E:338:ARG:HG3	1.90	0.53
1:E:420:ILE:HD11	1:E:1222:CYS:SG	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:523:PHE:O	1:F:527:TRP:HB2	2.09	0.53
1:F:679:ALA:O	1:F:707:TYR:OH	2.24	0.53
1:F:859:LEU:HG	1:F:913:LEU:HD21	1.90	0.53
1:G:928:LEU:CD2	1:G:1012:PHE:O	2.55	0.53
1:G:1252:ASP:OD2	1:G:1255:TYR:N	2.30	0.53
4:o:128:ASP:OD1	4:o:129:SER:N	2.42	0.53
4:k:30:ILE:HG12	4:k:73:VAL:HG22	1.91	0.53
1:N:166:ASP:OD1	1:N:167:SER:N	2.42	0.53
1:N:859:LEU:HD11	1:N:913:LEU:HD12	1.90	0.53
1:O:943:ARG:HD2	1:O:1158:LEU:HD22	1.91	0.53
1:Q:651:HIS:ND1	1:Q:651:HIS:O	2.42	0.53
1:R:290:VAL:HG23	1:R:1083:LEU:HB3	1.91	0.53
1:T:458:PHE:HD2	1:T:466:LEU:HD11	1.73	0.53
2:d:55:SER:O	2:d:59:VAL:HG23	2.09	0.53
1:C:1212:SER:O	1:C:1212:SER:OG	2.27	0.53
1:E:462:LYS:HE2	1:E:1198:ARG:O	2.07	0.53
1:E:675:SER:OG	1:E:677:ARG:NH2	2.42	0.53
1:E:880:PRO:HA	1:E:885:HIS:CG	2.44	0.53
1:F:322:LEU:O	1:F:327:LEU:HD21	2.09	0.53
4:j:115:LEU:HB3	4:j:138:LEU:HD11	1.90	0.53
4:o:159:ARG:HB3	4:o:192:GLN:CD	2.34	0.53
4:m:32:THR:OG1	4:m:69:ARG:NE	2.29	0.53
1:z:147:ILE:HD11	1:z:152:LEU:HD21	1.91	0.53
2:D:69:ARG:HH12	2:D:79:ARG:HH12	1.55	0.53
1:N:192:THR:HG23	1:N:1116:ARG:HH12	1.73	0.53
1:P:661:LEU:HG	1:P:694:LEU:HD21	1.90	0.53
1:P:951:ALA:HA	1:P:979:VAL:HG21	1.90	0.53
1:Q:659:ALA:HB2	2:Z:82:MET:HE1	1.91	0.53
1:B:544:ILE:O	1:B:548:ILE:HG12	2.08	0.53
1:B:1146:GLN:HE22	1:B:1288:ILE:HG21	1.74	0.53
1:B:1307:THR:OG1	1:B:1310:ARG:NE	2.38	0.53
1:G:718:ARG:O	1:G:722:THR:HG23	2.09	0.53
1:G:866:GLU:O	1:G:881:ARG:NH2	2.42	0.53
4:j:105:ASP:OD1	4:j:106:LEU:N	2.42	0.53
3:g:126:SER:HB2	3:g:194:TYR:HB2	1.91	0.53
3:g:354:ILE:CG2	3:g:358:LEU:HD13	2.38	0.53
3:h:320:HIS:CE1	3:h:346:ASN:HA	2.44	0.53
4:n:111:TYR:CZ	4:n:295:ARG:HD2	2.44	0.53
1:z:1219:ARG:NH1	1:z:1383:ARG:H	2.05	0.53
1:A:20:ALA:HB1	1:A:25:ILE:HD11	1.91	0.53
2:D:15:ASN:N	2:D:16:PRO:HD2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:646:LEU:HD21	1:N:664:LEU:HD21	1.90	0.53
1:O:214:ASN:HA	1:O:217:GLN:OE1	2.09	0.53
1:P:1236:ASP:HB3	1:P:1239:ALA:HB2	1.90	0.53
1:R:247:ARG:NH2	1:R:1387:PRO:O	2.41	0.53
1:T:979:VAL:HG23	1:T:1013:LEU:HD13	1.91	0.53
1:T:1080:GLU:HB2	1:T:1133:ALA:HB3	1.91	0.53
1:B:1267:GLN:O	1:B:1270:SER:OG	2.26	0.53
1:C:306:ILE:HD12	1:C:385:VAL:HB	1.91	0.53
1:E:510:GLU:HG3	1:E:774:ARG:HD2	1.90	0.53
1:E:660:LEU:HD11	1:E:916:LEU:HD21	1.91	0.53
1:E:705:ASN:CG	1:F:677:ARG:HH22	2.17	0.53
1:G:604:PRO:HD3	1:G:1212:SER:HB3	1.91	0.53
1:z:174:ILE:O	1:z:177:MET:HG2	2.09	0.53
1:M:1067:ILE:HD11	1:M:1208:ALA:HB1	1.90	0.53
1:N:1253:VAL:HG11	1:O:1195:GLY:HA3	1.90	0.53
1:P:671:TYR:O	1:P:675:SER:OG	2.25	0.53
1:P:1176:LEU:HD11	1:P:1288:ILE:HD11	1.91	0.53
1:P:1268:LYS:HG2	1:P:1269:HIS:CD2	2.44	0.53
1:R:98:GLU:HG2	1:R:99:LEU:N	2.24	0.53
1:S:658:CYS:HA	1:S:661:LEU:HD13	1.91	0.53
1:S:785:HIS:NE2	1:S:815:ILE:O	2.42	0.53
1:T:1227:ARG:NH1	1:T:1259:ALA:O	2.41	0.53
1:U:547:PHE:O	1:U:552:ASN:ND2	2.29	0.53
1:U:1033:LYS:NZ	1:G:617:LEU:O	2.36	0.53
1:U:1209:MET:HA	1:U:1262:ASN:HD21	1.72	0.53
1:U:1326:THR:HG22	1:U:1328:TYR:H	1.73	0.53
1:B:52:LYS:O	1:B:54:ILE:N	2.42	0.53
2:I:91:TRP:O	2:I:92:LEU:HG	2.08	0.53
1:E:508:VAL:HG23	1:E:575:PRO:HA	1.91	0.53
1:E:660:LEU:HD11	1:E:916:LEU:HD11	1.91	0.53
1:E:1201:ALA:N	1:E:1327:GLU:O	2.42	0.53
1:F:896:VAL:O	1:F:900:ASN:ND2	2.42	0.53
2:K:46:HIS:CD2	2:K:50:ILE:HD11	2.44	0.53
1:G:461:ASN:HD21	1:G:465:ILE:HB	1.74	0.53
3:i:168:LEU:HD11	3:i:245:MET:HG2	1.91	0.53
3:i:267:ILE:CG2	3:i:268:GLN:N	2.72	0.53
1:z:290:VAL:HG21	1:z:397:LEU:HB2	1.90	0.53
1:A:683:ASN:HD21	1:A:754:TRP:HE1	1.55	0.52
1:M:470:THR:OG1	1:M:471:LEU:N	2.41	0.52
1:O:701:GLU:HG2	1:O:705:ASN:HD21	1.73	0.52
1:O:746:ASP:OD2	1:O:823:ARG:NH2	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:149:SER:C	1:R:151:ALA:H	2.17	0.52
1:R:725:THR:OG1	1:R:740:ASN:ND2	2.42	0.52
1:T:501:GLN:HG2	1:T:502:CYS:H	1.73	0.52
1:U:224:ARG:NH1	1:U:1236:ASP:OD1	2.42	0.52
1:B:291:THR:HB	1:B:1082:LEU:HD12	1.90	0.52
1:B:851:ARG:N	1:B:973:PHE:O	2.40	0.52
1:E:907:GLY:O	1:E:910:LEU:N	2.42	0.52
1:G:1152:ARG:HE	1:G:1188:LEU:HD22	1.74	0.52
4:q:114:LEU:HD22	4:q:293:ILE:HD13	1.91	0.52
1:M:1148:LEU:O	1:M:1151:SER:OG	2.22	0.52
1:N:651:HIS:CE1	1:N:653:ASN:HB2	2.44	0.52
1:O:386:ILE:HG12	1:O:391:LEU:HD13	1.91	0.52
1:P:865:PRO:HG3	1:P:888:GLN:HE21	1.74	0.52
1:T:16:SER:OG	1:T:17:ASP:N	2.40	0.52
1:U:288:VAL:HG23	1:U:393:PHE:HB2	1.90	0.52
1:U:664:LEU:HA	1:U:667:CYS:SG	2.49	0.52
1:U:888:GLN:OE1	1:U:888:GLN:N	2.42	0.52
1:B:1333:PRO:HG2	1:B:1336:SER:HB2	1.90	0.52
1:C:30:ILE:HD12	1:C:31:PRO:HD2	1.91	0.52
1:C:209:LEU:O	1:C:212:PRO:HD2	2.09	0.52
1:C:531:MET:HE2	1:C:531:MET:HA	1.91	0.52
1:F:413:GLY:O	1:F:1079:THR:OG1	2.25	0.52
1:F:748:PHE:O	1:F:830:LYS:NZ	2.30	0.52
1:F:1149:PHE:HB3	1:F:1167:ARG:HH12	1.75	0.52
1:G:1152:ARG:HH21	1:G:1188:LEU:HB3	1.74	0.52
3:e:126:SER:HB2	3:e:194:TYR:HB2	1.91	0.52
3:e:168:LEU:HD11	3:e:245:MET:HG2	1.92	0.52
4:o:118:VAL:HG23	4:o:138:LEU:HD12	1.90	0.52
3:f:320:HIS:CE1	3:f:346:ASN:HA	2.44	0.52
3:i:320:HIS:CE1	3:i:346:ASN:HA	2.44	0.52
1:A:290:VAL:HG12	1:A:411:LEU:HD11	1.91	0.52
1:M:35:VAL:HB	1:R:75:ASN:HB3	1.90	0.52
1:M:730:GLY:O	1:M:731:HIS:ND1	2.42	0.52
1:M:1227:ARG:HD2	1:M:1260:THR:HG22	1.92	0.52
1:N:109:PHE:HB2	1:N:132:MET:HB2	1.90	0.52
1:P:124:VAL:HG22	4:q:300:ASP:HB2	1.90	0.52
1:P:770:LEU:HB2	1:P:946:ARG:HH12	1.74	0.52
2:Y:12:ASP:N	2:Y:12:ASP:OD1	2.40	0.52
1:Q:325:THR:HG23	1:Q:340:MET:HE2	1.92	0.52
1:R:1073:ARG:NH2	1:R:1141:MET:HB3	2.25	0.52
2:a:76:THR:OG1	2:a:104:PRO:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1323:SER:HB3	1:S:1333:PRO:HD3	1.90	0.52
2:b:71:ASN:OD1	2:b:72:HIS:N	2.42	0.52
1:T:520:MET:O	1:T:524:MET:HB2	2.10	0.52
1:T:776:SER:O	1:T:776:SER:OG	2.25	0.52
1:T:1384:ASP:OD1	1:T:1384:ASP:N	2.42	0.52
1:C:671:TYR:OH	1:C:677:ARG:HD3	2.09	0.52
1:E:516:LEU:HD13	1:E:975:TYR:CG	2.43	0.52
1:E:694:LEU:HD23	1:E:699:LEU:HD11	1.91	0.52
1:F:489:THR:HA	1:F:492:ALA:HB3	1.90	0.52
1:F:961:TYR:HB2	1:F:988:HIS:CD2	2.45	0.52
4:o:145:MET:HE1	4:o:290:THR:H	1.74	0.52
4:p:230:GLY:HA2	4:p:236:VAL:CG2	2.39	0.52
4:q:153:VAL:O	4:q:157:VAL:HG23	2.08	0.52
2:V:33:ILE:HA	2:V:36:LEU:HD12	1.91	0.52
1:N:446:GLU:N	1:N:446:GLU:OE1	2.40	0.52
1:N:910:LEU:O	1:N:913:LEU:HD23	2.09	0.52
1:O:755:ASP:OD1	1:O:756:CYS:N	2.39	0.52
1:O:874:PRO:HG3	1:O:881:ARG:O	2.10	0.52
1:P:269:SER:OG	1:P:1088:ALA:O	2.17	0.52
1:Q:291:THR:HG22	1:Q:1082:LEU:HD12	1.90	0.52
1:T:627:ILE:HG23	1:T:1036:PHE:HE2	1.74	0.52
1:T:1236:ASP:OD1	1:T:1237:ARG:N	2.42	0.52
1:T:1354:LEU:N	1:T:1384:ASP:HB3	2.25	0.52
1:B:481:SER:OG	1:B:1155:VAL:O	2.23	0.52
1:B:529:ASP:OD1	1:B:529:ASP:N	2.43	0.52
1:C:637:ARG:O	1:C:962:GLN:HG3	2.08	0.52
1:C:879:ASP:HB2	1:C:882:HIS:HB2	1.91	0.52
1:E:752:ILE:HG13	1:E:957:ILE:HD11	1.90	0.52
1:E:862:VAL:HG12	1:E:910:LEU:HD12	1.92	0.52
1:E:989:LEU:HB3	1:E:995:MET:HE2	1.90	0.52
2:J:25:ALA:HB3	2:J:28:THR:HG22	1.90	0.52
1:F:695:GLY:O	1:F:708:ARG:NH2	2.43	0.52
1:G:772:ALA:HB3	1:G:930:SER:HB3	1.92	0.52
4:o:30:ILE:HD11	4:o:98:ILE:HB	1.90	0.52
1:z:278:THR:H	1:z:312:ASP:HB3	1.74	0.52
1:z:1274:ARG:HD2	1:z:1280:TYR:HE2	1.75	0.52
1:A:1077:PHE:HD1	1:A:1137:PRO:HB3	1.75	0.52
1:M:636:ASP:OD1	1:M:677:ARG:NE	2.42	0.52
1:N:622:MET:HE2	1:N:713:HIS:CE1	2.45	0.52
1:N:778:ARG:HB2	1:N:799:ASN:HB3	1.92	0.52
1:O:683:ASN:ND2	1:O:686:MET:H	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:827:ILE:O	1:O:831:ILE:HG12	2.09	0.52
1:P:833:TYR:HD1	1:P:837:ILE:HD11	1.74	0.52
1:P:1184:ILE:HG13	3:h:169:LEU:HD11	1.92	0.52
1:P:1332:ARG:NH2	3:h:269:ASP:OD2	2.42	0.52
1:R:277:HIS:ND1	1:R:313:VAL:HG13	2.24	0.52
1:R:1247:ASP:OD1	1:R:1248:HIS:N	2.43	0.52
1:T:584:MET:SD	1:T:584:MET:N	2.81	0.52
1:U:305:GLN:NE2	1:U:386:ILE:HB	2.25	0.52
2:d:24:ILE:HB	2:d:28:THR:HG21	1.91	0.52
1:B:637:ARG:HD3	1:B:960:ALA:HB1	1.91	0.52
2:H:29:PRO:O	2:H:33:ILE:HG12	2.09	0.52
1:C:544:ILE:HG23	1:C:545:LEU:HD12	1.92	0.52
1:C:1333:PRO:O	1:C:1336:SER:OG	2.15	0.52
1:E:768:ASP:OD1	1:E:768:ASP:N	2.40	0.52
1:E:894:LEU:HA	1:E:897:TYR:CD2	2.42	0.52
1:F:320:MET:HE2	1:F:320:MET:HA	1.90	0.52
1:F:1361:MET:HE1	1:F:1379:GLN:HG3	1.91	0.52
1:G:276:THR:HB	1:G:284:GLN:HE22	1.74	0.52
1:G:926:ALA:CB	1:G:1012:PHE:HE2	2.21	0.52
3:e:320:HIS:CE1	3:e:346:ASN:HA	2.44	0.52
4:p:32:THR:HG1	4:p:50:TYR:HH	1.58	0.52
3:g:320:HIS:CE1	3:g:346:ASN:HA	2.44	0.52
4:q:63:LEU:O	4:q:67:ARG:NH1	2.42	0.52
4:q:87:ILE:HD13	4:q:294:LEU:HD21	1.90	0.52
3:h:477:THR:HG22	4:m:142:GLN:HE22	1.74	0.52
4:r:284:LEU:HD12	4:r:288:LEU:HD13	1.92	0.52
1:Q:233:ASP:OD1	1:Q:236:ARG:NH2	2.41	0.52
2:Z:42:LEU:HG	2:Z:47:ARG:NH2	2.24	0.52
2:a:13:PRO:HD2	2:a:45:GLY:HA3	1.90	0.52
1:T:401:VAL:HG22	1:T:402:TYR:H	1.74	0.52
2:d:54:ARG:CZ	2:L:91:TRP:HB2	2.39	0.52
1:B:712:GLN:HA	1:B:715:ARG:HD2	1.91	0.52
1:C:459:PHE:HB3	1:C:1355:CYS:HB3	1.90	0.52
1:E:1229:SER:OG	1:E:1230:GLY:N	2.42	0.52
1:E:1258:ARG:NH1	1:E:1261:LEU:HD11	2.24	0.52
2:J:82:MET:HA	2:J:98:LEU:H	1.75	0.52
1:F:245:MET:HE2	1:F:245:MET:HA	1.91	0.52
1:F:633:THR:HG22	1:F:959:MET:HE1	1.92	0.52
1:G:651:HIS:CE1	1:G:653:ASN:HB2	2.44	0.52
1:G:762:ARG:HH22	1:G:772:ALA:N	2.08	0.52
4:k:111:TYR:CZ	4:k:295:ARG:HD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:203:THR:HG22	4:r:207:ASN:HD21	1.74	0.52
4:n:144:LEU:HD11	4:n:180:TYR:HB2	1.91	0.52
4:n:178:ILE:HG23	4:n:185:TYR:HB3	1.90	0.52
4:s:115:LEU:HD13	4:s:145:MET:SD	2.50	0.52
1:A:781:TYR:HA	1:A:799:ASN:HD22	1.74	0.52
1:O:520:MET:HG3	1:O:992:LEU:HD22	1.92	0.52
1:P:83:LEU:HD21	1:P:317:TYR:HE1	1.74	0.52
1:R:211:SER:OG	1:R:237:ARG:NH2	2.42	0.52
1:R:609:ASP:OD2	1:R:1034:SER:HB2	2.10	0.52
1:R:1301:VAL:HG21	1:R:1310:ARG:NH2	2.24	0.52
1:U:45:ARG:NE	1:U:45:ARG:CA	2.73	0.52
1:U:675:SER:HB3	1:U:677:ARG:NH1	2.25	0.52
1:B:123:PRO:HB3	4:o:37:ARG:HH12	1.74	0.52
1:B:259:LEU:O	1:B:263:VAL:HG22	2.10	0.52
2:I:91:TRP:CD1	2:I:91:TRP:H	2.28	0.52
1:E:272:VAL:HG12	1:E:274:ARG:HG2	1.90	0.52
1:E:540:GLU:HB3	1:E:600:VAL:HG22	1.92	0.52
2:J:93:ARG:CZ	2:J:94:PRO:HD2	2.39	0.52
1:G:1366:HIS:HB2	1:G:1369:GLU:HG3	1.92	0.52
3:e:183:TRP:CD1	3:e:183:TRP:H	2.26	0.52
3:f:168:LEU:HD11	3:f:245:MET:HG2	1.92	0.52
4:r:14:GLU:OE1	4:r:14:GLU:N	2.40	0.52
3:i:249:HIS:HB3	3:i:430:LEU:HD23	1.91	0.52
3:i:329:GLN:N	3:i:365:ASN:HD21	2.06	0.52
4:n:115:LEU:HD12	4:n:116:PRO:HD2	1.92	0.52
1:z:311:ALA:HB2	1:z:384:LEU:HD11	1.91	0.52
1:z:1164:GLU:N	1:z:1164:GLU:OE1	2.43	0.52
1:z:1388:LEU:HD11	1:z:1392:LEU:HD13	1.91	0.52
1:M:526:THR:O	1:M:530:MET:N	2.43	0.52
1:Q:299:LEU:HD22	1:Q:303:ILE:HG21	1.90	0.52
1:R:168:SER:HA	1:R:171:ILE:HD12	1.90	0.52
1:T:1301:VAL:O	1:T:1304:ASN:ND2	2.29	0.52
2:c:91:TRP:O	2:c:92:LEU:HG	2.10	0.52
1:B:753:LEU:HB3	1:B:953:TYR:HD1	1.75	0.52
1:B:1076:ARG:N	1:B:1139:THR:OG1	2.33	0.52
1:B:1217:TYR:CZ	1:B:1222:CYS:HB2	2.45	0.52
1:B:1384:ASP:OD1	1:B:1385:ALA:N	2.43	0.52
1:C:757:ASP:OD2	1:C:820:HIS:N	2.43	0.52
1:C:996:THR:OG1	1:C:997:ASN:N	2.43	0.52
1:E:230:LEU:O	1:E:234:LEU:HG	2.09	0.52
1:E:721:ILE:HD11	1:E:1044:LEU:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:915:GLU:N	1:F:915:GLU:OE1	2.42	0.52
3:e:142:VAL:HG23	3:e:259:PHE:HB3	1.92	0.52
3:h:442:THR:HG22	3:h:443:ILE:N	2.25	0.52
4:m:212:ILE:HG13	4:r:277:TRP:CD1	2.45	0.52
1:A:574:LEU:HG	1:A:576:GLY:H	1.75	0.52
1:O:1225:ARG:HD2	1:O:1296:PHE:HA	1.92	0.52
2:Y:44:PRO:HB3	2:Y:47:ARG:NH2	2.24	0.52
1:S:609:ASP:OD2	1:S:1034:SER:OG	2.27	0.52
1:S:1160:ASP:HA	1:S:1163:THR:HG22	1.92	0.52
1:U:536:HIS:C	1:U:554:ARG:HH11	2.18	0.52
1:U:594:ILE:HG23	1:U:597:ASN:HB2	1.92	0.52
2:d:36:LEU:HD23	2:L:89:MET:HG3	1.92	0.52
1:B:242:MET:HG3	1:B:243:PHE:CE1	2.45	0.52
1:B:522:ARG:HH21	1:B:579:ARG:HA	1.75	0.52
1:B:1322:SER:OG	1:B:1323:SER:N	2.40	0.52
1:E:296:LYS:HE3	1:E:394:LEU:HD22	1.92	0.52
2:J:96:VAL:HG11	1:F:897:TYR:HE1	1.74	0.52
1:F:80:VAL:HG12	1:F:400:ARG:NH2	2.25	0.52
1:G:1264:TRP:O	1:G:1270:SER:OG	2.23	0.52
3:g:142:VAL:HG23	3:g:259:PHE:HB3	1.92	0.52
3:h:125:VAL:HG23	3:h:271:LEU:HD21	1.92	0.52
1:A:16:SER:OG	1:A:17:ASP:N	2.41	0.52
1:A:851:ARG:NH2	1:A:972:THR:O	2.40	0.52
1:O:463:ASP:OD2	1:O:1198:ARG:NH1	2.43	0.52
1:P:537:TRP:CD1	1:P:537:TRP:H	2.26	0.52
1:Q:450:ARG:NH2	1:Q:1358:ASP:OD2	2.42	0.52
1:Q:1372:ALA:HB1	1:Q:1383:ARG:NH2	2.24	0.52
2:a:99:LYS:HB3	2:a:101:THR:HG23	1.92	0.52
1:S:419:PHE:HA	1:S:1351:TYR:O	2.10	0.52
1:U:952:LEU:HG	1:U:979:VAL:HG11	1.92	0.52
1:U:1150:PHE:O	1:U:1286:SER:OG	2.26	0.52
1:U:1271:TYR:O	1:U:1275:LEU:HB2	2.10	0.52
1:B:414:ASN:HB2	1:B:1340:THR:HG22	1.90	0.52
1:B:1020:THR:OG1	1:B:1021:ILE:N	2.43	0.52
1:B:1269:HIS:N	1:B:1273:ASP:OD2	2.40	0.52
1:E:1017:HIS:HA	1:E:1022:ARG:NH1	2.25	0.52
1:F:1056:THR:O	1:F:1060:ARG:NE	2.36	0.52
1:G:177:MET:O	1:G:181:LEU:HG	2.10	0.52
1:G:757:ASP:N	1:G:757:ASP:OD1	2.43	0.52
1:G:851:ARG:HB2	1:G:975:TYR:CE2	2.44	0.52
1:G:1165:SER:O	1:G:1168:ARG:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:168:LEU:HD11	3:g:245:MET:HG2	1.92	0.52
4:l:33:PHE:CZ	4:l:45:ILE:HD11	2.44	0.52
4:r:164:ALA:HA	4:r:167:LEU:HD12	1.91	0.52
3:i:126:SER:HB2	3:i:194:TYR:HB2	1.91	0.52
1:M:683:ASN:OD1	1:M:684:PHE:N	2.43	0.51
1:N:1332:ARG:HH21	1:N:1336:SER:HB3	1.74	0.51
1:O:276:THR:OG1	1:O:277:HIS:N	2.42	0.51
1:O:1147:ASN:OD1	1:O:1148:LEU:N	2.43	0.51
1:P:1354:LEU:N	1:P:1384:ASP:HB3	2.25	0.51
2:Z:98:LEU:HD21	2:Z:102:PHE:HE1	1.75	0.51
1:T:647:GLU:OE2	1:T:683:ASN:ND2	2.34	0.51
1:U:748:PHE:HE2	1:U:834:TYR:CE2	2.28	0.51
1:U:956:LEU:HD12	1:U:974:PHE:CE1	2.45	0.51
1:B:1051:THR:H	1:B:1054:SER:HG	1.57	0.51
1:B:1148:LEU:O	1:B:1151:SER:OG	2.19	0.51
1:C:121:PRO:HG3	3:g:271:LEU:HD11	1.92	0.51
1:C:647:GLU:HA	1:C:650:ILE:HG22	1.92	0.51
1:E:1366:HIS:HB2	1:E:1369:GLU:OE1	2.10	0.51
1:F:149:SER:OG	1:F:1106:GLY:HA3	2.10	0.51
1:F:421:MET:HG2	1:F:1355:CYS:SG	2.50	0.51
1:F:622:MET:HE3	1:F:627:ILE:HD11	1.91	0.51
1:G:738:ALA:HA	1:G:744:THR:HB	1.90	0.51
4:q:128:ASP:OD1	4:q:129:SER:N	2.44	0.51
1:z:160:VAL:HG23	1:z:161:ASP:H	1.75	0.51
1:N:644:TYR:CZ	1:N:958:MET:HG3	2.46	0.51
1:N:927:ILE:CD1	1:N:953:TYR:HB2	2.39	0.51
1:N:997:ASN:ND2	1:O:823:ARG:HH11	2.08	0.51
1:O:35:VAL:HB	1:B:75:ASN:HB3	1.93	0.51
1:O:859:LEU:HD21	1:O:913:LEU:HD22	1.92	0.51
1:S:461:ASN:OD1	1:S:462:LYS:N	2.33	0.51
1:S:1308:LEU:H	1:S:1308:LEU:HD23	1.75	0.51
1:U:516:LEU:HD13	1:U:851:ARG:HH12	1.76	0.51
1:U:792:HIS:CE1	1:U:920:MET:HE1	2.45	0.51
2:H:91:TRP:HB2	2:I:54:ARG:NH2	2.21	0.51
1:F:849:GLY:N	1:F:975:TYR:O	2.42	0.51
1:F:859:LEU:HA	1:F:894:LEU:HD13	1.92	0.51
1:F:1076:ARG:NH2	1:F:1200:GLN:OE1	2.43	0.51
1:F:1307:THR:HG21	1:F:1310:ARG:HE	1.76	0.51
1:F:1323:SER:HB3	1:F:1333:PRO:HD3	1.93	0.51
1:G:597:ASN:CG	1:G:1022:ARG:HD3	2.35	0.51
1:G:1267:GLN:HB2	1:G:1270:SER:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:63:ALA:HA	2:L:66:ALA:HB3	1.91	0.51
3:f:126:SER:HB2	3:f:194:TYR:HB2	1.91	0.51
4:l:111:TYR:CZ	4:l:295:ARG:HD2	2.46	0.51
3:i:308:ASP:OD2	3:i:319:LYS:NZ	2.39	0.51
1:z:94:THR:HA	1:z:318:GLY:HA3	1.91	0.51
1:z:210:LEU:HD21	1:z:1125:TYR:CD1	2.45	0.51
1:A:886:ALA:HB1	2:Z:77:ILE:HG13	1.92	0.51
1:A:1246:PHE:O	1:A:1248:HIS:ND1	2.44	0.51
2:D:24:ILE:HG22	2:D:29:PRO:HD3	1.92	0.51
2:X:43:GLN:HB2	2:X:46:HIS:HB2	1.92	0.51
1:P:1074:GLN:OE1	1:P:1294:LYS:NZ	2.40	0.51
1:R:1234:MET:HE3	1:R:1235:GLY:H	1.75	0.51
1:S:513:GLU:HG3	1:S:514:ASP:H	1.75	0.51
1:T:685:HIS:CD2	1:T:825:TRP:HZ2	2.28	0.51
1:U:593:ILE:HD11	1:U:1020:THR:HG22	1.93	0.51
1:B:810:ASP:HB2	1:B:815:ILE:HD11	1.91	0.51
1:C:154:LEU:HD21	1:C:169:LEU:HB3	1.92	0.51
1:C:409:TYR:HD1	1:C:410:PRO:HD2	1.75	0.51
1:E:774:ARG:HB3	1:E:928:LEU:HB3	1.92	0.51
1:E:848:MET:HE2	1:E:988:HIS:HD2	1.74	0.51
1:F:274:ARG:HE	1:F:275:ILE:H	1.58	0.51
1:G:461:ASN:ND2	1:G:465:ILE:O	2.43	0.51
4:q:249:THR:O	4:q:253:ILE:N	2.40	0.51
1:z:276:THR:HB	1:z:1087:ARG:HH22	1.76	0.51
1:z:286:ASP:HA	1:z:1087:ARG:HD3	1.92	0.51
1:M:1332:ARG:NH2	1:M:1336:SER:O	2.42	0.51
1:O:291:THR:HB	1:O:1082:LEU:HD12	1.92	0.51
1:R:201:LEU:HD11	1:R:411:LEU:HD23	1.93	0.51
1:R:938:ALA:O	1:R:1158:LEU:N	2.38	0.51
1:R:1081:GLN:HG2	1:R:1131:THR:HG22	1.92	0.51
1:S:925:THR:OG1	1:S:926:ALA:N	2.43	0.51
1:T:1029:VAL:HG12	1:T:1043:LEU:HD11	1.93	0.51
1:U:1078:ALA:HB3	1:U:1135:ARG:HB2	1.91	0.51
1:B:550:PRO:HB3	1:B:1259:ALA:HB2	1.93	0.51
1:B:1313:MET:HA	1:B:1316:LYS:HD3	1.91	0.51
1:C:655:ARG:HD2	2:I:83:PHE:CE2	2.46	0.51
1:C:1023:GLN:HE21	1:C:1027:TYR:HB2	1.75	0.51
2:I:12:ASP:HB2	2:I:15:ASN:CG	2.35	0.51
1:E:409:TYR:CD1	1:E:410:PRO:HD2	2.46	0.51
1:E:444:VAL:HG11	1:F:451:GLN:OE1	2.10	0.51
1:E:472:ARG:HH22	1:F:546:GLN:HG2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:73:TYR:HB2	1:G:109:PHE:CE1	2.45	0.51
3:e:266:THR:HB	3:e:273:ASN:HB3	1.91	0.51
3:e:475:THR:HG22	3:e:475:THR:O	2.10	0.51
4:o:203:THR:O	4:o:207:ASN:ND2	2.43	0.51
3:g:226:TYR:CD2	3:g:231:MET:HE2	2.41	0.51
4:m:271:TYR:CZ	4:r:158:GLU:HG3	2.46	0.51
3:i:142:VAL:HG23	3:i:259:PHE:HB3	1.92	0.51
4:n:212:ILE:HD13	4:s:277:TRP:CD1	2.46	0.51
1:z:1223:ASN:ND2	1:z:1225:ARG:H	2.04	0.51
1:A:296:LYS:HG2	1:A:300:LEU:HD23	1.92	0.51
1:A:909:ALA:O	1:A:912:THR:OG1	2.29	0.51
1:A:961:TYR:CD2	1:A:963:ALA:HB2	2.46	0.51
1:P:118:ARG:HH22	1:P:122:HIS:CD2	2.29	0.51
1:P:859:LEU:HD12	1:P:894:LEU:HD11	1.93	0.51
1:Q:119:ASP:OD1	1:Q:120:GLY:N	2.43	0.51
1:Q:802:ILE:HD11	1:Q:922:GLU:H	1.75	0.51
1:R:266:THR:OG1	1:R:1086:GLU:OE2	2.29	0.51
1:T:590:THR:OG1	1:T:591:LEU:N	2.38	0.51
1:U:247:ARG:NH1	1:U:1387:PRO:O	2.43	0.51
1:U:708:ARG:NH1	1:B:636:ASP:OD1	2.34	0.51
1:C:441:PHE:CE1	1:E:436:ARG:HD3	2.46	0.51
1:C:468:GLN:O	1:C:1143:ASN:ND2	2.43	0.51
1:C:850:VAL:HG23	1:C:974:PHE:HE1	1.75	0.51
1:C:1019:ALA:O	1:C:1022:ARG:NE	2.39	0.51
1:E:1293:PHE:O	1:E:1297:THR:HG22	2.10	0.51
1:E:1356:SER:OG	1:E:1381:LEU:HG	2.10	0.51
1:G:931:SER:O	1:G:947:ILE:N	2.44	0.51
4:j:77:VAL:HG23	4:j:82:LEU:HD12	1.93	0.51
4:l:209:MET:HE3	4:q:226:LEU:HD21	1.92	0.51
3:h:119:THR:HG21	3:h:284:ALA:HB3	1.91	0.51
3:h:330:ARG:HG3	3:h:333:ARG:HB2	1.93	0.51
4:s:52:ILE:HG23	4:s:53:ASN:H	1.75	0.51
1:O:669:ARG:CZ	1:O:700:PRO:HD3	2.41	0.51
1:P:207:LEU:HB3	1:P:1130:ALA:HB2	1.92	0.51
1:P:1200:GLN:NE2	1:P:1329:GLN:HA	2.24	0.51
1:Q:511:GLY:O	1:Q:777:GLY:N	2.44	0.51
1:Q:525:GLU:OE2	1:Q:999:ARG:NH2	2.44	0.51
2:Z:40:GLY:H	2:Z:46:HIS:CE1	2.29	0.51
1:S:596:GLY:HA2	1:S:608:ARG:HH12	1.75	0.51
1:U:278:THR:OG1	1:U:279:ASN:N	2.44	0.51
1:B:682:ASN:HB2	1:B:957:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:704:ILE:HD12	1:B:707:TYR:HB2	1.93	0.51
1:E:738:ALA:O	1:E:1049:LYS:NZ	2.28	0.51
1:E:781:TYR:HA	1:E:799:ASN:HB2	1.92	0.51
2:J:92:LEU:O	2:J:93:ARG:HD2	2.10	0.51
1:F:82:PHE:HA	1:F:85:LEU:HD13	1.92	0.51
1:F:179:ARG:O	1:F:183:THR:HG23	2.11	0.51
1:F:1146:GLN:HE21	1:F:1288:ILE:HB	1.76	0.51
1:G:683:ASN:HB3	1:G:686:MET:HB2	1.92	0.51
1:G:863:ILE:HG12	1:G:888:GLN:NE2	2.26	0.51
1:G:1223:ASN:OD1	1:G:1225:ARG:HB3	2.11	0.51
4:o:12:PRO:HB2	4:o:14:GLU:OE1	2.10	0.51
3:h:142:VAL:HG23	3:h:259:PHE:HB3	1.92	0.51
1:A:480:HIS:HD2	1:A:482:SER:HB3	1.76	0.51
1:A:647:GLU:HA	1:A:650:ILE:HG22	1.93	0.51
1:A:663:LEU:HB2	1:A:909:ALA:HB1	1.93	0.51
1:A:1017:HIS:O	1:A:1022:ARG:NH2	2.43	0.51
1:N:726:ILE:H	1:N:1057:HIS:CD2	2.29	0.51
2:Y:91:TRP:CE3	2:Y:92:LEU:HB2	2.45	0.51
1:Q:1237:ARG:HB2	1:Q:1240:ASP:CG	2.36	0.51
1:R:866:GLU:OE2	2:a:71:ASN:ND2	2.44	0.51
1:S:29:ILE:HG13	1:S:30:ILE:N	2.25	0.51
1:S:760:ILE:HD11	1:S:819:PRO:HB3	1.92	0.51
1:S:1310:ARG:O	1:S:1313:MET:HG2	2.11	0.51
1:S:1315:ALA:HB2	1:S:1346:LEU:HD21	1.92	0.51
1:U:642:ILE:O	1:U:646:LEU:HG	2.11	0.51
1:U:769:ARG:NE	1:U:933:PRO:O	2.44	0.51
1:B:661:LEU:HB2	2:H:100:ARG:O	2.11	0.51
1:B:1092:TYR:OH	1:B:1116:ARG:NH1	2.44	0.51
1:B:1248:HIS:NE2	1:B:1266:SER:OG	2.42	0.51
1:C:827:ILE:O	1:C:831:ILE:HG13	2.11	0.51
1:F:1317:ALA:HA	1:F:1339:MET:SD	2.50	0.51
1:G:277:HIS:CE1	1:G:314:PRO:HD2	2.46	0.51
1:G:385:VAL:HB	1:G:394:LEU:HD21	1.93	0.51
4:s:14:GLU:H	4:s:14:GLU:CD	2.19	0.51
1:z:87:LEU:HD12	1:z:90:ALA:HB3	1.91	0.51
1:A:274:ARG:NH2	1:A:275:ILE:O	2.43	0.51
1:M:58:ASP:OD1	1:M:59:ASN:N	2.44	0.51
1:M:169:LEU:HD11	1:R:64:ALA:HB2	1.93	0.51
1:N:874:PRO:HG3	1:N:881:ARG:HB3	1.93	0.51
1:R:18:ARG:CG	1:R:18:ARG:NH2	2.73	0.51
1:R:1185:PHE:CE2	3:f:311:LEU:HD13	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:683:ASN:HD21	1:S:754:TRP:HE1	1.58	0.51
2:c:28:THR:O	2:c:32:LEU:CB	2.52	0.51
1:U:615:LEU:HD21	1:U:1063:PHE:HE1	1.76	0.51
1:U:748:PHE:HB3	1:U:830:LYS:HZ2	1.76	0.51
1:U:1171:ALA:HB1	1:U:1177:ASN:HD22	1.75	0.51
1:B:247:ARG:HG2	1:B:248:HIS:HD2	1.75	0.51
1:B:522:ARG:O	1:B:526:THR:OG1	2.25	0.51
1:B:1165:SER:O	1:B:1169:ILE:HG13	2.11	0.51
1:C:420:ILE:HG22	1:C:1072:VAL:HG13	1.92	0.51
1:E:486:VAL:HG21	1:E:565:PHE:HZ	1.76	0.51
1:E:801:LEU:HB3	1:E:953:TYR:CE2	2.46	0.51
1:E:865:PRO:HB3	1:E:888:GLN:HE21	1.75	0.51
1:F:136:ILE:HA	1:F:1119:VAL:HG12	1.91	0.51
1:F:266:THR:OG1	1:F:1086:GLU:OE2	2.25	0.51
1:F:808:ARG:HH21	2:K:84:ALA:H	1.57	0.51
1:G:671:TYR:HA	1:G:674:GLN:HG2	1.92	0.51
4:j:47:LEU:HD11	4:j:57:PRO:HD2	1.93	0.51
1:z:205:PRO:HG3	1:z:1125:TYR:HD1	1.75	0.51
1:A:768:ASP:N	1:A:768:ASP:OD1	2.43	0.51
1:M:516:LEU:HD13	1:M:975:TYR:CG	2.45	0.51
1:M:1104:ALA:HB2	1:M:1109:ASN:HB2	1.93	0.51
1:N:1232:LEU:HD21	1:N:1311:LEU:HD13	1.93	0.51
1:O:1146:GLN:HG3	1:O:1288:ILE:HG21	1.93	0.51
2:X:80:THR:HG22	2:X:81:ALA:H	1.75	0.51
1:P:869:ALA:HB2	2:Y:75:ASN:ND2	2.26	0.51
1:S:594:ILE:HG13	1:S:596:GLY:H	1.76	0.51
2:c:42:LEU:H	2:c:42:LEU:HD23	1.76	0.51
1:U:89:VAL:HG11	1:U:393:PHE:CE1	2.46	0.51
1:U:269:SER:OG	1:U:270:VAL:N	2.44	0.51
1:U:604:PRO:HD3	1:U:1212:SER:HB3	1.93	0.51
1:U:1252:ASP:OD1	1:U:1253:VAL:N	2.44	0.51
1:E:735:THR:OG1	1:E:736:SER:N	2.44	0.51
1:E:991:SER:O	1:E:991:SER:OG	2.25	0.51
1:E:1252:ASP:OD1	1:E:1253:VAL:N	2.44	0.51
1:F:897:TYR:HA	1:F:900:ASN:HD22	1.76	0.51
1:G:928:LEU:HD21	1:G:1013:LEU:HA	1.93	0.51
4:o:294:LEU:HG	4:o:315:GLN:HA	1.91	0.51
3:h:428:THR:OG1	4:r:213:ASN:ND2	2.44	0.51
3:h:455:GLU:OE2	3:h:456:ARG:O	2.29	0.51
3:i:357:LEU:HD12	3:i:358:LEU:CD1	2.23	0.51
1:M:512:THR:HB	1:M:777:GLY:HA3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1268:LYS:HG3	1:M:1269:HIS:CD2	2.45	0.51
1:N:538:VAL:HG11	1:N:1006:VAL:HG23	1.93	0.51
1:N:927:ILE:HD11	1:N:953:TYR:HB2	1.91	0.51
1:R:683:ASN:OD1	1:R:684:PHE:N	2.44	0.51
1:S:149:SER:C	1:S:151:ALA:H	2.19	0.51
1:S:503:TYR:CD1	1:S:569:PRO:HD3	2.46	0.51
1:S:1074:GLN:OE1	1:S:1289:TYR:OH	2.22	0.51
1:U:81:ARG:NH1	1:U:84:GLU:OE1	2.41	0.51
1:U:306:ILE:HG13	1:U:384:LEU:O	2.11	0.51
1:B:480:HIS:CD2	1:B:482:SER:H	2.29	0.51
1:E:435:THR:HG23	1:E:1376:HIS:HD2	1.76	0.51
4:o:92:PRO:HG2	4:o:96:LEU:HD21	1.92	0.51
4:o:277:TRP:O	4:o:281:SER:OG	2.21	0.51
4:q:130:VAL:HG12	4:q:132:LEU:HD13	1.93	0.51
3:i:330:ARG:HG3	3:i:333:ARG:HB2	1.93	0.51
1:z:1147:ASN:HD21	1:z:1149:PHE:HB3	1.76	0.51
1:A:103:ARG:HG2	1:Q:67:ASP:OD1	2.11	0.50
1:A:194:ASP:OD1	1:A:402:TYR:OH	2.21	0.50
1:A:653:ASN:ND2	1:A:804:GLY:HA3	2.24	0.50
1:M:522:ARG:HB3	1:M:578:GLN:HE22	1.75	0.50
1:N:539:ASN:ND2	1:N:541:HIS:HE1	2.09	0.50
1:O:547:PHE:HZ	1:O:558:GLU:HG3	1.76	0.50
1:P:214:ASN:ND2	1:P:265:CYS:O	2.44	0.50
1:P:227:ARG:O	1:P:231:LEU:HG	2.12	0.50
1:P:808:ARG:NH1	2:Y:84:ALA:HB3	2.26	0.50
1:P:961:TYR:HE2	1:P:990:ALA:HB3	1.76	0.50
1:Q:665:THR:HG23	1:Q:666:GLN:HE21	1.75	0.50
1:Q:911:LEU:HD21	2:Z:69:ARG:HB2	1.92	0.50
1:S:252:PRO:HG2	1:S:253:ARG:HD2	1.93	0.50
1:T:198:GLY:O	1:T:202:GLU:HG2	2.11	0.50
1:U:744:THR:HA	1:U:827:ILE:HD12	1.94	0.50
1:U:1075:ASP:OD1	1:U:1076:ARG:N	2.43	0.50
1:B:1209:MET:HA	1:B:1262:ASN:OD1	2.11	0.50
1:B:1364:THR:OG1	1:B:1365:ALA:N	2.44	0.50
1:E:739:LEU:HD12	1:E:1053:ILE:HG21	1.93	0.50
1:F:500:ARG:NH2	1:F:585:PRO:HD3	2.26	0.50
1:G:752:ILE:HD12	1:G:955:GLY:HA3	1.93	0.50
1:G:1356:SER:HB2	1:G:1362:LEU:HD21	1.92	0.50
4:p:78:ILE:HG13	4:p:81:LYS:H	1.75	0.50
4:q:195:ASP:N	4:q:195:ASP:OD1	2.44	0.50
4:n:22:ALA:HA	4:n:25:LYS:HE2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:849:GLY:N	1:M:975:TYR:O	2.30	0.50
2:V:50:ILE:O	2:V:54:ARG:N	2.43	0.50
1:N:661:LEU:O	1:N:665:THR:OG1	2.28	0.50
1:P:25:ILE:HG12	1:P:51:PHE:CE1	2.46	0.50
1:Q:262:MET:HE2	1:Q:1084:TYR:HB3	1.93	0.50
1:R:384:LEU:HD23	1:R:391:LEU:HD21	1.92	0.50
1:R:778:ARG:NH2	1:R:797:ARG:O	2.41	0.50
1:G:1304:ASN:ND2	1:G:1310:ARG:HG2	2.27	0.50
4:j:59:THR:H	4:j:200:ALA:HB1	1.76	0.50
3:f:443:ILE:HG21	3:f:448:VAL:HG12	1.94	0.50
3:g:356:PHE:CE2	3:g:357:LEU:HD23	2.45	0.50
4:m:146:ARG:HH12	4:r:279:SER:HB2	1.76	0.50
1:z:185:LEU:HA	1:z:188:PHE:CD2	2.46	0.50
1:M:29:ILE:HG22	1:S:343:VAL:HG21	1.92	0.50
1:M:1034:SER:OG	1:M:1035:ASP:N	2.43	0.50
1:M:1317:ALA:HB1	1:M:1339:MET:SD	2.51	0.50
1:Q:445:SER:OG	1:Q:446:GLU:N	2.44	0.50
1:R:776:SER:HG	1:R:925:THR:HG1	1.58	0.50
1:R:853:ASP:OD1	1:R:854:ARG:N	2.44	0.50
1:T:657:PHE:CE2	1:T:689:TYR:HB3	2.46	0.50
1:T:745:ASP:OD1	1:T:746:ASP:N	2.45	0.50
1:B:291:THR:OG1	1:B:292:THR:N	2.45	0.50
1:B:802:ILE:O	1:B:953:TYR:OH	2.28	0.50
1:B:978:PRO:HG2	1:B:1008:PRO:O	2.11	0.50
2:H:80:THR:HG21	1:C:891:PRO:HG3	1.93	0.50
1:F:637:ARG:CZ	1:F:960:ALA:HB1	2.42	0.50
1:F:641:THR:O	1:F:645:MET:HG3	2.12	0.50
1:F:744:THR:HA	1:F:827:ILE:HG23	1.93	0.50
1:G:252:PRO:HA	1:G:255:ILE:HD12	1.93	0.50
4:o:116:PRO:HB3	4:o:117:PRO:HD2	1.91	0.50
4:q:187:LEU:HD23	4:q:187:LEU:H	1.76	0.50
3:h:455:GLU:CD	3:h:456:ARG:H	2.19	0.50
4:r:205:VAL:HG22	4:r:209:MET:HE3	1.93	0.50
4:r:217:LEU:HA	4:r:220:LEU:HD12	1.93	0.50
1:N:139:ARG:HB3	1:N:195:GLN:HE22	1.76	0.50
1:N:961:TYR:CE2	1:N:963:ALA:HB2	2.46	0.50
1:N:1051:THR:H	1:N:1054:SER:HG	1.57	0.50
1:O:19:ILE:HD11	1:C:135:ARG:HH11	1.76	0.50
1:O:1189:ARG:HH22	3:f:184:THR:HG22	1.77	0.50
1:O:1310:ARG:HB2	1:O:1313:MET:CG	2.33	0.50
1:P:848:MET:HA	1:P:976:PRO:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:1379:GLN:HE22	1:Q:431:MET:HE1	1.76	0.50
1:Q:660:LEU:HD21	1:Q:663:LEU:HD23	1.92	0.50
1:R:161:ASP:OD1	1:R:161:ASP:N	2.43	0.50
1:E:1269:HIS:N	1:E:1273:ASP:OD2	2.39	0.50
1:F:501:GLN:OE1	1:F:567:VAL:HG21	2.11	0.50
1:F:1076:ARG:NH2	1:F:1324:THR:OG1	2.45	0.50
4:r:101:THR:HG22	4:r:139:THR:HG22	1.94	0.50
1:z:1295:PHE:CG	1:z:1348:GLN:HG3	2.46	0.50
1:A:808:ARG:NH2	1:M:966:GLU:OE1	2.45	0.50
1:N:114:PRO:HD3	1:O:77:LEU:HD11	1.93	0.50
1:N:808:ARG:NH2	1:P:966:GLU:OE1	2.42	0.50
1:N:1332:ARG:HH21	1:N:1336:SER:CB	2.24	0.50
1:U:27:ALA:HB1	1:U:29:ILE:HG12	1.92	0.50
1:U:654:GLU:N	1:U:654:GLU:OE2	2.43	0.50
1:B:287:GLY:H	1:B:392:VAL:HG12	1.75	0.50
1:B:786:PHE:CD2	1:B:805:ARG:HD3	2.47	0.50
1:B:1185:PHE:HB2	3:g:169:LEU:HD11	1.92	0.50
1:B:1396:ARG:HH12	1:C:1389:ARG:HE	1.58	0.50
1:E:1165:SER:O	1:E:1169:ILE:HG12	2.11	0.50
1:E:1396:ARG:O	1:F:1389:ARG:NH2	2.44	0.50
1:F:740:ASN:HA	1:F:1049:LYS:NZ	2.26	0.50
2:K:46:HIS:CG	2:K:50:ILE:HD11	2.46	0.50
1:G:523:PHE:CE2	1:G:1010:PRO:CA	2.93	0.50
3:f:142:VAL:HG23	3:f:259:PHE:HB3	1.92	0.50
4:k:155:ARG:HH22	4:k:188:GLU:HA	1.77	0.50
3:g:330:ARG:HG3	3:g:333:ARG:HB2	1.93	0.50
4:l:275:SER:HA	4:l:278:ILE:HG22	1.94	0.50
4:q:199:ALA:O	4:q:202:ARG:HG2	2.11	0.50
1:A:1326:THR:HA	1:M:224:ARG:HH11	1.75	0.50
1:M:109:PHE:HB2	1:M:132:MET:HE2	1.94	0.50
1:M:1019:ALA:O	1:M:1022:ARG:NE	2.41	0.50
1:M:1227:ARG:HB2	1:M:1260:THR:HG22	1.93	0.50
1:N:661:LEU:HD23	2:W:101:THR:HG22	1.92	0.50
1:O:469:LEU:HD13	1:O:1143:ASN:HB2	1.94	0.50
1:P:119:ASP:OD1	1:P:120:GLY:N	2.40	0.50
1:R:1175:ARG:HE	1:S:1256:THR:HB	1.77	0.50
1:T:1074:GLN:HE22	1:T:1321:GLN:HE21	1.59	0.50
2:c:12:ASP:OD1	2:c:12:ASP:N	2.45	0.50
1:U:802:ILE:HD11	1:U:922:GLU:H	1.77	0.50
1:B:1146:GLN:HE21	1:B:1147:ASN:N	2.08	0.50
1:C:835:ILE:C	1:C:838:PRO:HD2	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:841:SER:O	1:E:844:SER:OG	2.28	0.50
2:K:92:LEU:HD11	2:L:54:ARG:HA	1.92	0.50
3:e:330:ARG:HG3	3:e:333:ARG:HB2	1.93	0.50
3:h:231:MET:HE3	3:h:235:LEU:CG	2.42	0.50
4:s:100:ASN:OD1	4:s:102:SER:OG	2.29	0.50
1:z:1076:ARG:HG2	1:z:1138:LEU:HD13	1.94	0.50
1:A:743:LEU:HD13	1:A:831:ILE:HG12	1.94	0.50
1:N:595:ASN:HD21	1:N:611:ARG:HH12	1.58	0.50
1:O:822:ASP:N	1:O:822:ASP:OD1	2.42	0.50
1:Q:661:LEU:O	1:Q:665:THR:HG22	2.12	0.50
1:R:159:TYR:HE2	3:f:286:ARG:CZ	2.25	0.50
1:R:939:THR:HG22	1:R:1157:MET:HA	1.93	0.50
1:S:653:ASN:CG	1:S:804:GLY:HA3	2.37	0.50
1:S:1227:ARG:NH2	1:S:1250:GLN:O	2.44	0.50
1:T:893:SER:O	1:T:896:VAL:HG22	2.12	0.50
1:B:868:PRO:HB2	1:B:871:GLU:HB2	1.94	0.50
1:E:1098:GLN:O	1:E:1113:THR:OG1	2.30	0.50
2:J:9:VAL:HB	2:J:16:PRO:HD3	1.94	0.50
1:F:508:VAL:HG11	1:F:948:TYR:CE2	2.47	0.50
1:G:149:SER:C	1:G:151:ALA:H	2.20	0.50
3:i:222:ILE:HD11	3:i:226:TYR:CZ	2.47	0.50
1:A:573:ASP:OD1	1:A:573:ASP:N	2.44	0.50
1:M:1143:ASN:ND2	1:O:1257:ASP:OD2	2.45	0.50
1:M:1301:VAL:H	1:M:1304:ASN:ND2	2.07	0.50
1:N:348:LEU:HD23	1:C:327:LEU:HD23	1.93	0.50
1:O:796:ARG:HB3	1:O:798:ASP:OD1	2.12	0.50
1:O:916:LEU:HB2	1:O:917:MET:HE2	1.94	0.50
1:R:961:TYR:HB2	1:R:988:HIS:CD2	2.46	0.50
1:T:645:MET:HE1	1:T:897:TYR:CD1	2.46	0.50
1:B:788:ASP:OD1	1:B:789:MET:N	2.44	0.50
1:C:569:PRO:HG2	1:C:572:VAL:HG11	1.94	0.50
1:C:624:PRO:HA	1:C:627:ILE:HD11	1.93	0.50
1:C:762:ARG:NH2	1:C:930:SER:O	2.44	0.50
1:C:1308:LEU:H	1:C:1310:ARG:NH1	2.10	0.50
1:F:384:LEU:HD21	1:F:391:LEU:HD21	1.93	0.50
1:F:671:TYR:O	1:F:674:GLN:NE2	2.45	0.50
1:F:762:ARG:HH12	1:F:929:VAL:HG21	1.77	0.50
1:F:1236:ASP:O	1:F:1237:ARG:NE	2.43	0.50
1:G:1381:LEU:HD23	1:G:1382:ILE:N	2.27	0.50
3:f:157:THR:O	3:f:157:THR:CG2	2.59	0.50
3:g:283:GLU:OE2	3:g:296:THR:HG22	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:q:74:ILE:HG12	4:q:82:LEU:HD21	1.92	0.50
4:n:32:THR:O	4:n:69:ARG:NH2	2.37	0.50
4:n:105:ASP:OD1	4:n:307:PRO:HD3	2.12	0.50
4:s:266:ARG:NH1	4:s:267:ARG:HB2	2.27	0.50
1:z:1312:LEU:O	1:z:1316:LYS:NZ	2.29	0.50
1:A:1010:PRO:HD2	1:A:1013:LEU:HD12	1.94	0.50
1:M:40:GLU:OE1	1:S:113:GLN:NE2	2.45	0.50
1:M:882:HIS:HD2	1:M:884:LEU:H	1.59	0.50
1:N:195:GLN:OE1	1:N:1092:TYR:OH	2.30	0.50
1:N:1252:ASP:OD1	1:N:1253:VAL:N	2.45	0.50
1:N:1308:LEU:HD23	1:N:1309:ASP:HB2	1.93	0.50
1:O:169:LEU:HD11	1:B:64:ALA:HB2	1.93	0.50
1:O:789:MET:HE3	2:X:62:ALA:HB2	1.93	0.50
1:Q:463:ASP:OD2	1:Q:1198:ARG:NH1	2.42	0.50
1:R:480:HIS:HD2	1:R:482:SER:HB3	1.77	0.50
1:R:936:GLY:O	1:R:1051:THR:OG1	2.24	0.50
1:R:1034:SER:OG	1:R:1035:ASP:N	2.44	0.50
1:S:291:THR:OG1	1:S:292:THR:N	2.42	0.50
1:U:748:PHE:CE2	1:U:834:TYR:HE2	2.30	0.50
1:B:445:SER:OG	1:B:446:GLU:N	2.44	0.50
1:F:312:ASP:HA	1:F:378:ALA:O	2.12	0.50
1:F:419:PHE:HE1	1:F:1386:SER:HB2	1.77	0.50
1:G:1307:THR:C	1:G:1309:ASP:H	2.20	0.50
3:f:267:ILE:CG2	3:f:268:GLN:N	2.75	0.50
4:p:245:CYS:SG	4:p:246:VAL:N	2.85	0.50
3:h:429:GLN:NE2	4:r:280:THR:HG1	2.10	0.50
4:m:17:PRO:HA	4:m:20:THR:HG22	1.94	0.50
4:n:110:ASP:OD2	4:n:180:TYR:OH	2.30	0.50
4:s:47:LEU:HB3	4:s:133:GLU:OE1	2.10	0.50
1:z:286:ASP:HB2	1:z:390:LYS:HB2	1.94	0.50
1:A:1076:ARG:CZ	1:A:1324:THR:HG22	2.42	0.49
1:M:279:ASN:CG	1:M:281:ARG:H	2.20	0.49
1:P:420:ILE:HD13	1:P:1222:CYS:SG	2.52	0.49
1:R:619:ARG:NH1	1:R:720:THR:OG1	2.45	0.49
1:S:467:THR:OG1	1:S:468:GLN:N	2.45	0.49
1:B:1333:PRO:HA	3:g:183:TRP:CH2	2.47	0.49
1:E:1248:HIS:NE2	1:E:1266:SER:OG	2.37	0.49
1:E:1320:SER:O	1:E:1332:ARG:NH1	2.45	0.49
1:F:675:SER:O	1:F:677:ARG:NH1	2.41	0.49
1:F:980:ASN:HB3	1:F:983:PHE:CD2	2.47	0.49
1:F:1247:ASP:CG	1:F:1250:GLN:HE21	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:626:THR:HG21	1:G:709:ASP:OD2	2.12	0.49
3:f:361:ILE:O	3:f:365:ASN:HB2	2.13	0.49
4:p:74:ILE:HG23	4:p:82:LEU:HD11	1.94	0.49
4:m:146:ARG:HH22	4:r:279:SER:HB2	1.77	0.49
4:r:89:VAL:HG23	4:r:91:THR:HG23	1.93	0.49
1:z:266:THR:OG1	1:z:1086:GLU:HG2	2.11	0.49
1:z:296:LYS:HE2	1:z:300:LEU:HD12	1.94	0.49
1:M:1333:PRO:HG2	1:M:1336:SER:HB2	1.94	0.49
1:N:742:ILE:HG22	1:N:1047:TYR:HB3	1.94	0.49
1:N:958:MET:HB3	1:N:988:HIS:CE1	2.43	0.49
1:O:98:GLU:OE2	1:O:98:GLU:N	2.45	0.49
1:O:654:GLU:HG3	1:O:689:TYR:CE1	2.47	0.49
1:O:1307:THR:HG21	1:O:1310:ARG:HD3	1.93	0.49
1:Q:477:THR:HA	1:Q:1148:LEU:HD12	1.94	0.49
1:S:853:ASP:OD1	1:S:854:ARG:N	2.45	0.49
1:T:530:MET:HG3	1:T:531:MET:N	2.28	0.49
1:U:1363:ARG:NH1	1:B:1374:GLU:OE2	2.46	0.49
1:B:149:SER:C	1:B:151:ALA:H	2.20	0.49
1:B:527:TRP:NE1	1:B:531:MET:HE1	2.26	0.49
1:B:1091:SER:HB3	1:B:1119:VAL:HG13	1.94	0.49
1:F:535:PRO:HB2	1:F:538:VAL:HG11	1.93	0.49
1:F:831:ILE:HG13	1:F:835:ILE:HD12	1.95	0.49
1:F:942:THR:HA	1:F:945:MET:SD	2.52	0.49
1:F:1051:THR:HG22	1:F:1053:ILE:H	1.77	0.49
4:o:32:THR:HG22	4:o:69:ARG:HB2	1.93	0.49
4:s:20:THR:HA	4:s:23:LEU:HB2	1.94	0.49
1:z:1215:LEU:HD23	1:z:1375:VAL:HG21	1.94	0.49
1:M:619:ARG:HH12	1:O:1033:LYS:NZ	2.09	0.49
2:V:28:THR:N	2:V:29:PRO:HD2	2.27	0.49
1:N:150:GLU:OE1	1:N:153:SER:OG	2.30	0.49
1:N:1002:LEU:HD12	1:N:1005:MET:HB3	1.94	0.49
1:N:1028:HIS:NE2	1:N:1042:SER:OG	2.43	0.49
1:R:263:VAL:HG23	1:R:1084:TYR:CZ	2.47	0.49
1:R:263:VAL:HG11	1:R:387:VAL:HG23	1.94	0.49
1:S:849:GLY:N	1:S:975:TYR:O	2.39	0.49
1:T:633:THR:HG21	1:T:678:VAL:O	2.12	0.49
1:U:961:TYR:CD2	1:U:988:HIS:HA	2.47	0.49
1:B:262:MET:HE2	1:B:1084:TYR:HB3	1.94	0.49
1:C:113:GLN:NE2	1:C:130:ASN:HD21	2.11	0.49
1:C:514:ASP:HB3	1:C:517:ASP:HB2	1.94	0.49
1:E:279:ASN:ND2	1:E:281:ARG:HB2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:620:HIS:CD2	1:G:712:GLN:HG3	2.46	0.49
4:j:107:CYS:SG	4:j:108:ASN:N	2.85	0.49
3:g:161:ALA:HB1	4:q:262:GLN:HG3	1.95	0.49
3:h:121:LEU:HB2	4:m:299:PHE:HZ	1.77	0.49
1:M:149:SER:C	1:M:151:ALA:H	2.20	0.49
1:M:251:GLU:OE1	1:M:251:GLU:N	2.45	0.49
1:N:522:ARG:HB3	1:N:578:GLN:HE22	1.78	0.49
1:P:149:SER:C	1:P:151:ALA:H	2.20	0.49
2:Y:80:THR:OG1	2:Y:81:ALA:N	2.45	0.49
1:R:1372:ALA:HB1	1:R:1383:ARG:HE	1.77	0.49
2:a:80:THR:HG22	2:a:81:ALA:H	1.76	0.49
1:S:298:GLN:HA	1:S:301:GLN:CD	2.36	0.49
1:U:536:HIS:HD2	1:U:553:PRO:HG3	1.77	0.49
1:U:772:ALA:N	1:U:930:SER:O	2.40	0.49
1:U:1274:ARG:HA	1:U:1280:TYR:CD2	2.48	0.49
1:B:595:ASN:ND2	1:B:611:ARG:HH12	2.10	0.49
1:B:670:GLY:O	1:B:674:GLN:HB2	2.11	0.49
1:F:750:ALA:HB2	1:F:830:LYS:HB3	1.95	0.49
1:F:1352:PRO:HD2	1:F:1385:ALA:HB3	1.94	0.49
1:G:217:GLN:N	1:G:218:PRO:HD2	2.27	0.49
1:G:642:ILE:O	1:G:646:LEU:HG	2.13	0.49
1:G:883:PRO:O	1:G:895:ASN:ND2	2.44	0.49
4:j:47:LEU:HA	4:j:50:TYR:CD2	2.40	0.49
4:q:26:CYS:SG	4:q:125:ILE:HD11	2.52	0.49
4:q:258:MET:N	4:q:258:MET:SD	2.85	0.49
3:i:226:TYR:CD2	3:i:231:MET:HE2	2.41	0.49
4:n:118:VAL:HG22	4:n:152:VAL:HG11	1.93	0.49
1:A:308:ASP:OD1	1:A:309:THR:N	2.46	0.49
1:A:1289:TYR:CE2	1:A:1321:GLN:HG3	2.47	0.49
1:N:35:VAL:HG23	1:N:36:LEU:H	1.77	0.49
1:N:837:ILE:O	1:N:841:SER:OG	2.25	0.49
1:P:136:ILE:HG22	1:P:1119:VAL:HB	1.93	0.49
1:T:833:TYR:HA	1:T:837:ILE:HD12	1.95	0.49
1:U:35:VAL:C	1:U:36:LEU:HD23	2.37	0.49
1:U:172:ARG:O	1:U:175:GLN:NE2	2.33	0.49
1:U:578:GLN:HG2	1:U:579:ARG:N	2.27	0.49
1:B:615:LEU:HD11	1:B:1063:PHE:HE1	1.78	0.49
1:B:1277:ASN:OD1	1:B:1278:GLY:N	2.45	0.49
1:C:1384:ASP:OD1	1:C:1384:ASP:N	2.39	0.49
1:F:672:TRP:HD1	1:F:673:GLU:HG3	1.76	0.49
1:G:863:ILE:HG23	1:G:888:GLN:HE21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1023:GLN:N	1:G:1024:PRO:HD2	2.27	0.49
2:L:15:ASN:OD1	2:L:16:PRO:HD3	2.12	0.49
3:e:475:THR:HA	4:j:111:TYR:HE2	1.77	0.49
3:g:222:ILE:HD11	3:g:226:TYR:CZ	2.47	0.49
1:z:402:TYR:CE2	1:z:410:PRO:HD3	2.46	0.49
1:z:1229:SER:HB2	1:z:1261:LEU:HD11	1.95	0.49
1:M:803:HIS:HD2	1:M:820:HIS:CE1	2.30	0.49
1:M:852:TYR:HA	1:M:855:LEU:HB3	1.94	0.49
1:O:83:LEU:HD11	1:O:317:TYR:CE1	2.44	0.49
1:P:869:ALA:HB2	2:Y:75:ASN:HD21	1.77	0.49
1:R:564:ASP:OD1	1:R:592:ARG:NH2	2.46	0.49
2:a:63:ALA:O	2:a:67:ARG:HG2	2.12	0.49
1:T:735:THR:OG1	1:T:736:SER:N	2.44	0.49
1:C:87:LEU:HG	1:C:196:LEU:HD23	1.95	0.49
1:E:81:ARG:HB2	1:E:84:GLU:CD	2.37	0.49
1:F:217:GLN:N	1:F:218:PRO:HD2	2.27	0.49
1:F:593:ILE:O	1:F:1050:PHE:N	2.44	0.49
1:G:548:ILE:HA	1:G:555:LEU:HD21	1.95	0.49
1:G:807:VAL:HG23	1:G:808:ARG:HG3	1.95	0.49
4:o:127:LEU:HD23	4:o:128:ASP:N	2.28	0.49
4:o:142:GLN:O	4:o:146:ARG:HG2	2.13	0.49
3:f:222:ILE:HD11	3:f:226:TYR:CZ	2.47	0.49
4:q:213:ASN:HD22	4:q:273:THR:HA	1.78	0.49
3:h:424:ARG:HA	4:r:214:GLU:HG2	1.94	0.49
4:m:89:VAL:HG13	4:r:314:ILE:HD13	1.95	0.49
4:n:4:PRO:HA	4:n:91:THR:OG1	2.12	0.49
1:A:277:HIS:HB2	1:A:285:VAL:HG11	1.94	0.49
1:M:104:ASP:N	1:M:104:ASP:OD1	2.45	0.49
1:N:685:HIS:CE1	1:N:754:TRP:CD1	3.00	0.49
1:N:848:MET:HG2	1:N:976:PRO:HA	1.95	0.49
1:P:448:ASP:O	1:P:451:GLN:HG2	2.12	0.49
1:Q:1372:ALA:O	1:Q:1381:LEU:HD22	2.13	0.49
1:R:329:THR:OG1	1:R:330:ALA:N	2.44	0.49
1:R:525:GLU:H	1:R:525:GLU:CD	2.21	0.49
1:R:1075:ASP:OD1	1:R:1139:THR:OG1	2.29	0.49
1:S:1081:GLN:NE2	1:S:1129:CYS:SG	2.80	0.49
1:T:961:TYR:CE2	1:T:963:ALA:HB2	2.48	0.49
1:U:1058:GLN:O	1:U:1061:THR:OG1	2.27	0.49
2:d:8:ARG:HH11	2:d:32:LEU:HB2	1.78	0.49
1:B:865:PRO:HD2	1:B:883:PRO:HG3	1.94	0.49
1:B:930:SER:OG	1:B:946:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:938:ALA:O	1:C:1158:LEU:N	2.39	0.49
1:E:1169:ILE:O	1:E:1172:SER:OG	2.23	0.49
2:J:49:ASP:N	2:J:49:ASP:OD1	2.43	0.49
1:F:502:CYS:HA	1:F:530:MET:HE3	1.95	0.49
4:o:31:ILE:CG2	4:o:136:PHE:HE1	2.25	0.49
4:o:36:LEU:HB2	4:o:70:PHE:CE2	2.47	0.49
4:o:204:LEU:HA	4:o:207:ASN:HB2	1.95	0.49
3:h:222:ILE:HD11	3:h:226:TYR:CZ	2.47	0.49
4:s:16:SER:OG	4:s:19:GLU:OE1	2.19	0.49
1:A:683:ASN:OD1	1:A:685:HIS:N	2.46	0.49
1:A:877:PRO:HA	1:A:882:HIS:CD2	2.48	0.49
1:M:480:HIS:HD2	1:M:482:SER:HB3	1.78	0.49
1:M:507:TYR:OH	1:M:577:PRO:O	2.18	0.49
1:M:659:ALA:HB2	2:V:82:MET:HE1	1.95	0.49
1:N:1025:VAL:O	1:N:1029:VAL:HG13	2.12	0.49
1:Q:140:SER:OG	1:Q:141:LEU:N	2.45	0.49
1:Q:846:CYS:SG	1:Q:985:CYS:HB3	2.53	0.49
1:R:641:THR:O	1:R:645:MET:HG3	2.13	0.49
1:E:243:PHE:HE1	1:E:1131:THR:HG22	1.78	0.49
1:F:81:ARG:HB3	1:F:84:GLU:CD	2.37	0.49
1:F:297:ARG:HG2	1:F:301:GLN:NE2	2.28	0.49
1:F:1134:LEU:HD22	1:F:1391:CYS:SG	2.53	0.49
1:F:1372:ALA:HB1	1:F:1383:ARG:NH2	2.27	0.49
1:G:1053:ILE:O	1:G:1057:HIS:NE2	2.45	0.49
2:L:16:PRO:HG2	2:L:18:THR:H	1.77	0.49
4:j:27:GLU:O	4:j:310:ARG:NH1	2.45	0.49
4:j:32:THR:HA	4:j:71:ALA:HA	1.93	0.49
3:i:443:ILE:HG21	3:i:448:VAL:HG12	1.93	0.49
1:A:115:MET:HG3	1:Q:187:SER:HB2	1.95	0.49
1:M:509:ALA:N	1:M:1011:PRO:O	2.45	0.49
1:M:769:ARG:NH2	1:M:932:ALA:O	2.43	0.49
1:M:1354:LEU:N	1:M:1384:ASP:HB3	2.28	0.49
2:X:32:LEU:HA	2:X:35:LEU:HB2	1.95	0.49
1:P:481:SER:O	1:P:481:SER:OG	2.29	0.49
1:P:907:GLY:HA2	1:P:910:LEU:HD12	1.94	0.49
1:P:961:TYR:CE2	1:P:990:ALA:HB3	2.48	0.49
1:Q:95:LYS:HE2	1:Q:317:TYR:HB2	1.94	0.49
1:Q:682:ASN:HB3	1:Q:959:MET:HE2	1.95	0.49
2:a:10:VAL:HG23	2:a:36:LEU:HD11	1.95	0.49
1:S:725:THR:HB	1:S:740:ASN:HD22	1.77	0.49
1:S:852:TYR:HA	1:S:855:LEU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:434:TYR:HD2	1:T:435:THR:O	1.96	0.49
1:U:508:VAL:HG21	1:U:948:TYR:HE2	1.78	0.49
1:U:1277:ASN:HB3	1:U:1280:TYR:CD2	2.48	0.49
1:B:850:VAL:HG12	1:B:974:PHE:CE1	2.48	0.49
1:G:196:LEU:O	1:G:199:VAL:HG12	2.13	0.49
1:G:561:PRO:HD3	1:G:1264:TRP:CG	2.47	0.49
1:G:1150:PHE:HA	1:G:1188:LEU:HD11	1.93	0.49
2:L:12:ASP:O	2:L:14:SER:N	2.45	0.49
3:e:124:GLN:NE2	3:e:125:VAL:O	2.46	0.49
4:j:205:VAL:HA	4:j:208:LEU:HB3	1.94	0.49
4:o:186:GLU:HG3	4:o:187:LEU:H	1.77	0.49
3:i:329:GLN:H	3:i:365:ASN:ND2	2.11	0.49
3:i:369:GLY:HA3	3:i:431:SER:OG	2.13	0.49
4:n:24:GLN:HA	4:n:77:VAL:HG21	1.94	0.49
4:s:149:ILE:O	4:s:153:VAL:HG22	2.13	0.49
1:A:214:ASN:ND2	1:A:265:CYS:HA	2.28	0.49
1:A:1205:GLU:HG2	1:A:1291:PRO:HD2	1.95	0.49
1:M:687:LEU:HG	1:M:707:TYR:HD1	1.77	0.49
1:N:435:THR:HG23	1:N:1376:HIS:CD2	2.47	0.49
1:N:1023:GLN:N	1:N:1024:PRO:HD2	2.28	0.49
1:O:1236:ASP:CG	1:O:1238:ASP:H	2.21	0.49
1:Q:1267:GLN:HB2	1:Q:1270:SER:HB3	1.93	0.49
1:R:1300:GLU:HB2	1:R:1302:ASN:OD1	2.13	0.49
2:b:22:GLU:OE2	2:b:67:ARG:NE	2.40	0.49
1:T:275:ILE:HG13	1:T:375:PRO:HB3	1.95	0.49
1:T:761:TYR:OH	1:T:822:ASP:HA	2.13	0.49
1:B:332:VAL:HG13	1:B:333:MET:HG2	1.94	0.49
1:B:455:GLN:HB3	1:B:471:LEU:HD12	1.94	0.49
1:B:698:GLU:N	1:B:698:GLU:OE2	2.46	0.49
1:B:1352:PRO:HG2	1:B:1385:ALA:HB3	1.94	0.49
1:C:784:LEU:HG	1:C:800:VAL:HG12	1.95	0.49
1:C:870:ASP:OD1	1:C:870:ASP:N	2.42	0.49
1:E:1311:LEU:HD12	1:E:1346:LEU:HD11	1.94	0.49
4:j:115:LEU:HB2	4:j:140:ILE:HD11	1.93	0.49
4:o:108:ASN:HD21	4:o:298:VAL:HB	1.77	0.49
3:g:151:MET:HG2	3:g:255:PHE:CE2	2.48	0.49
1:z:96:PHE:CD1	1:z:97:PRO:HD2	2.48	0.49
1:M:688:MET:HG2	1:M:825:TRP:HZ3	1.78	0.48
1:N:463:ASP:OD2	1:N:1198:ARG:NH1	2.45	0.48
1:O:701:GLU:O	1:O:705:ASN:ND2	2.46	0.48
2:X:29:PRO:O	2:X:33:ILE:N	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:16:SER:OG	1:Q:17:ASP:N	2.37	0.48
1:R:480:HIS:CD2	1:R:482:SER:HB3	2.48	0.48
1:R:611:ARG:NH2	1:R:1066:GLY:H	2.10	0.48
1:R:848:MET:HA	1:R:976:PRO:HA	1.94	0.48
1:T:508:VAL:HG23	1:T:575:PRO:HA	1.94	0.48
2:c:71:ASN:N	2:c:71:ASN:OD1	2.46	0.48
1:U:661:LEU:HD23	2:d:99:LYS:HB3	1.94	0.48
1:B:1185:PHE:HD2	3:g:152:ILE:HD11	1.78	0.48
2:J:96:VAL:HG11	1:F:897:TYR:CE1	2.48	0.48
1:F:67:ASP:HB3	1:G:103:ARG:HB2	1.94	0.48
1:G:834:TYR:HE1	1:G:983:PHE:HE2	1.61	0.48
3:e:289:LYS:HE2	3:e:295:VAL:HG23	1.95	0.48
4:k:149:ILE:O	4:k:153:VAL:HG12	2.13	0.48
4:k:208:LEU:O	4:k:211:SER:OG	2.31	0.48
3:h:423:PHE:HB3	3:h:426:LEU:HD12	1.93	0.48
4:r:115:LEU:HG	4:r:116:PRO:HD2	1.95	0.48
1:z:1082:LEU:N	1:z:1130:ALA:O	2.46	0.48
1:M:434:TYR:O	1:M:1377:LEU:N	2.39	0.48
1:M:480:HIS:CD2	1:M:482:SER:H	2.31	0.48
1:M:502:CYS:SG	1:M:503:TYR:N	2.86	0.48
1:M:681:VAL:O	1:M:832:TYR:OH	2.31	0.48
1:M:1313:MET:O	1:M:1316:LYS:NZ	2.46	0.48
1:N:1366:HIS:HA	1:P:1372:ALA:HB3	1.95	0.48
1:O:148:ALA:HB2	1:B:57:ASP:O	2.13	0.48
1:O:939:THR:HG22	1:O:1157:MET:HA	1.95	0.48
1:P:938:ALA:HB1	1:P:1158:LEU:HB3	1.94	0.48
1:Q:654:GLU:OE2	1:Q:693:TYR:OH	2.15	0.48
1:Q:808:ARG:HH12	2:Z:84:ALA:HB3	1.78	0.48
1:Q:1220:THR:HG22	1:Q:1221:ALA:H	1.77	0.48
2:b:91:TRP:H	2:b:91:TRP:CD1	2.30	0.48
1:U:409:TYR:CE2	1:U:411:LEU:HB3	2.49	0.48
1:U:473:ASP:HB3	1:U:1145:ALA:HB2	1.95	0.48
1:U:1266:SER:OG	1:U:1267:GLN:N	2.46	0.48
1:B:751:PRO:HG2	1:B:752:ILE:HD12	1.95	0.48
1:C:433:ARG:O	1:C:1377:LEU:HD12	2.13	0.48
1:F:130:ASN:N	1:F:130:ASN:OD1	2.44	0.48
1:F:449:PRO:HG2	1:G:431:MET:HB3	1.95	0.48
1:F:1333:PRO:HG2	1:F:1336:SER:HB2	1.94	0.48
1:G:664:LEU:H	1:G:664:LEU:HD12	1.78	0.48
1:G:1044:LEU:HD13	1:G:1047:TYR:HD2	1.78	0.48
3:e:222:ILE:HD11	3:e:226:TYR:CZ	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:f:330:ARG:HG3	3:f:333:ARG:HB2	1.93	0.48
4:l:282:SER:HG	4:q:146:ARG:HH11	1.56	0.48
4:r:159:ARG:NE	4:r:159:ARG:HA	2.28	0.48
3:i:424:ARG:HH12	4:s:262:GLN:HB2	1.77	0.48
4:s:227:LEU:HD11	4:s:250:GLY:HA3	1.95	0.48
1:N:422:PRO:HB2	1:N:425:VAL:HG21	1.94	0.48
1:O:19:ILE:H	1:O:19:ILE:HD12	1.78	0.48
1:R:1227:ARG:NH1	1:R:1247:ASP:O	2.46	0.48
1:R:1366:HIS:HA	1:S:1372:ALA:HB3	1.95	0.48
1:S:590:THR:OG1	1:S:1022:ARG:NH2	2.46	0.48
1:S:1300:GLU:OE2	1:S:1304:ASN:ND2	2.46	0.48
1:T:633:THR:HG22	1:T:677:ARG:HB3	1.95	0.48
1:U:882:HIS:O	1:U:888:GLN:NE2	2.46	0.48
1:B:622:MET:HE3	1:B:627:ILE:HD11	1.95	0.48
1:B:1392:LEU:HD12	1:B:1393:PRO:HD2	1.95	0.48
1:C:930:SER:HG	1:C:946:ARG:HE	1.59	0.48
1:E:1301:VAL:HA	1:E:1304:ASN:ND2	2.28	0.48
1:F:385:VAL:O	1:F:391:LEU:HD12	2.13	0.48
1:F:683:ASN:HD21	1:F:685:HIS:HB2	1.78	0.48
1:F:1247:ASP:OD1	1:F:1250:GLN:N	2.26	0.48
1:G:685:HIS:CE1	1:G:754:TRP:HD1	2.31	0.48
1:G:961:TYR:CE2	1:G:963:ALA:HB2	2.48	0.48
1:G:1069:PHE:HD1	1:G:1208:ALA:HA	1.77	0.48
3:f:151:MET:HG2	3:f:255:PHE:CE2	2.48	0.48
3:i:151:MET:HG2	3:i:255:PHE:CE2	2.48	0.48
1:z:85:LEU:HD11	1:z:395:GLU:HG3	1.96	0.48
1:z:1097:ILE:HG22	1:z:1112:LEU:HD12	1.95	0.48
2:D:31:ALA:O	2:D:34:ARG:NE	2.45	0.48
1:M:187:SER:OG	1:O:117:ALA:N	2.46	0.48
1:M:1023:GLN:N	1:M:1024:PRO:HD2	2.28	0.48
1:M:1258:ARG:NH1	1:M:1261:LEU:HD13	2.28	0.48
1:Q:111:VAL:HG23	1:Q:130:ASN:HB2	1.95	0.48
2:Z:86:THR:OG1	2:Z:90:THR:OG1	2.30	0.48
1:R:277:HIS:CE1	1:R:313:VAL:HG13	2.47	0.48
1:R:335:LYS:NZ	1:C:22:LEU:O	2.38	0.48
1:R:347:LEU:HD12	1:E:328:VAL:HG12	1.95	0.48
1:S:304:LEU:HB3	1:S:385:VAL:HG21	1.95	0.48
1:S:822:ASP:OD1	1:S:823:ARG:N	2.46	0.48
1:S:952:LEU:HD11	1:S:977:VAL:HG13	1.96	0.48
1:S:961:TYR:HB2	1:S:988:HIS:CD2	2.48	0.48
1:T:502:CYS:SG	1:T:531:MET:HA	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:266:THR:OG1	1:U:1125:TYR:O	2.20	0.48
1:U:619:ARG:HB2	1:U:1041:TYR:OH	2.12	0.48
1:U:627:ILE:H	1:U:627:ILE:HD12	1.79	0.48
2:d:44:PRO:HA	2:d:47:ARG:HG2	1.95	0.48
1:B:99:LEU:HD12	1:B:102:VAL:HG21	1.96	0.48
1:C:1237:ARG:NH1	1:C:1238:ASP:H	2.11	0.48
1:E:166:ASP:OD1	1:E:167:SER:N	2.45	0.48
1:F:487:GLU:O	1:F:491:VAL:HG22	2.12	0.48
1:F:542:LEU:H	1:F:542:LEU:HD12	1.78	0.48
3:e:318:LEU:H	4:o:36:LEU:HD22	1.78	0.48
3:g:183:TRP:O	3:g:184:THR:OG1	2.28	0.48
4:r:63:LEU:HD21	4:r:289:GLY:HA2	1.94	0.48
3:i:181:ALA:HB1	3:i:183:TRP:NE1	2.28	0.48
4:n:149:ILE:O	4:n:153:VAL:HG12	2.13	0.48
2:D:55:SER:O	2:D:55:SER:OG	2.32	0.48
1:M:538:VAL:HG11	1:M:1005:MET:O	2.13	0.48
2:V:86:THR:HB	2:V:90:THR:HG22	1.95	0.48
1:O:637:ARG:NH1	1:O:960:ALA:HB1	2.28	0.48
1:P:285:VAL:O	1:P:1087:ARG:NH1	2.46	0.48
1:Q:18:ARG:CG	1:Q:18:ARG:NH1	2.73	0.48
1:Q:429:ASN:O	1:Q:430:SER:OG	2.30	0.48
1:R:967:THR:OG1	1:R:968:ILE:N	2.46	0.48
1:T:19:ILE:HG13	1:T:20:ALA:H	1.78	0.48
2:c:43:GLN:HA	2:c:46:HIS:HB3	1.95	0.48
1:U:591:LEU:HD23	1:U:591:LEU:H	1.79	0.48
1:B:514:ASP:HA	1:B:923:ARG:NH2	2.25	0.48
1:B:620:HIS:CD2	1:B:713:HIS:HA	2.48	0.48
1:C:595:ASN:HD21	1:C:611:ARG:HH12	1.61	0.48
1:C:850:VAL:HG23	1:C:974:PHE:CE1	2.49	0.48
1:E:907:GLY:O	1:E:911:LEU:HG	2.13	0.48
1:F:168:SER:HB3	1:G:347:LEU:HD23	1.95	0.48
1:F:786:PHE:HD2	1:F:806:PRO:HD2	1.78	0.48
1:F:929:VAL:HG23	1:F:949:ASP:HB3	1.95	0.48
2:K:89:MET:HE2	2:L:36:LEU:HD23	1.96	0.48
1:G:205:PRO:HD2	1:G:1127:ALA:O	2.14	0.48
1:G:423:MET:HG2	1:G:1206:PHE:HE2	1.77	0.48
1:G:537:TRP:HZ3	1:G:1023:GLN:HE21	1.62	0.48
1:G:796:ARG:NH2	1:G:922:GLU:OE2	2.46	0.48
1:G:803:HIS:HB2	1:G:820:HIS:NE2	2.29	0.48
4:p:219:LEU:HA	4:p:222:LEU:HD12	1.95	0.48
3:h:151:MET:HG2	3:h:255:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:574:LEU:HD12	1:A:575:PRO:HD2	1.95	0.48
1:A:1327:GLU:HG3	1:A:1328:TYR:CD2	2.49	0.48
1:N:108:GLN:HG2	1:N:133:VAL:HG22	1.95	0.48
1:N:192:THR:HG23	1:N:1116:ARG:NH1	2.29	0.48
1:P:503:TYR:CD1	1:P:569:PRO:HD3	2.48	0.48
2:Y:69:ARG:HA	2:Y:72:HIS:CE1	2.49	0.48
1:Q:573:ASP:OD1	1:Q:574:LEU:N	2.45	0.48
1:Q:1005:MET:HG2	1:Q:1006:VAL:HG13	1.96	0.48
1:S:622:MET:HG3	1:S:713:HIS:ND1	2.29	0.48
1:S:725:THR:HB	1:S:740:ASN:ND2	2.28	0.48
1:U:119:ASP:HA	1:G:141:LEU:HA	1.96	0.48
1:U:223:ASN:HB2	1:G:1325:ASP:OD1	2.12	0.48
1:E:508:VAL:HG11	1:E:948:TYR:HD2	1.78	0.48
1:G:245:MET:HA	1:G:245:MET:HE2	1.95	0.48
1:G:423:MET:HG2	1:G:1206:PHE:CE2	2.49	0.48
1:G:705:ASN:HA	1:G:708:ARG:HG2	1.95	0.48
4:m:203:THR:HG22	4:r:235:TYR:CE2	2.49	0.48
1:z:289:LEU:HB2	1:z:1084:TYR:HD1	1.78	0.48
1:z:1147:ASN:ND2	1:z:1149:PHE:H	2.12	0.48
1:A:1267:GLN:HB2	1:A:1270:SER:HB3	1.96	0.48
2:D:89:MET:SD	2:D:91:TRP:NE1	2.69	0.48
1:M:596:GLY:O	1:M:608:ARG:NH2	2.47	0.48
1:N:207:LEU:N	1:N:1129:CYS:O	2.44	0.48
1:N:296:LYS:NZ	1:N:394:LEU:O	2.43	0.48
1:N:322:LEU:HA	1:N:326:ASN:ND2	2.28	0.48
1:O:312:ASP:HA	1:O:378:ALA:O	2.13	0.48
1:O:642:ILE:HD12	1:O:642:ILE:H	1.79	0.48
1:P:844:SER:O	1:P:844:SER:OG	2.30	0.48
1:Q:18:ARG:O	1:Q:20:ALA:N	2.47	0.48
1:Q:389:ASP:N	1:Q:389:ASP:OD1	2.47	0.48
1:Q:1075:ASP:HA	1:Q:1139:THR:HG21	1.96	0.48
1:R:1217:TYR:OH	1:R:1223:ASN:O	2.24	0.48
1:S:794:PHE:HE1	1:S:852:TYR:HB2	1.77	0.48
1:T:1080:GLU:OE2	1:T:1135:ARG:NH1	2.45	0.48
1:T:1092:TYR:OH	1:T:1116:ARG:HD3	2.13	0.48
1:B:536:HIS:NE2	1:B:553:PRO:HG2	2.28	0.48
1:C:149:SER:OG	1:C:150:GLU:N	2.46	0.48
1:E:595:ASN:ND2	1:E:611:ARG:HH22	2.11	0.48
1:E:853:ASP:HB2	2:J:54:ARG:HH21	1.78	0.48
1:E:1139:THR:OG1	1:E:1140:ASP:N	2.47	0.48
1:F:29:ILE:HG13	1:F:30:ILE:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:683:ASN:ND2	1:F:685:HIS:HB2	2.28	0.48
1:F:752:ILE:HD13	1:F:952:LEU:HB2	1.95	0.48
1:F:778:ARG:HB2	1:F:799:ASN:HB3	1.95	0.48
1:G:80:VAL:HG12	1:G:400:ARG:HD2	1.95	0.48
3:g:320:HIS:HE1	3:g:346:ASN:HA	1.79	0.48
4:q:118:VAL:HG22	4:q:187:LEU:HB2	1.96	0.48
1:A:736:SER:OG	1:A:737:GLU:N	2.45	0.48
1:A:784:LEU:HD12	1:A:785:HIS:H	1.79	0.48
1:M:856:TYR:O	1:M:860:GLN:NE2	2.45	0.48
1:N:248:HIS:CD2	1:N:254:LEU:HD23	2.49	0.48
2:W:91:TRP:O	2:W:92:LEU:HG	2.14	0.48
1:O:1019:ALA:O	1:O:1022:ARG:NE	2.45	0.48
1:P:498:LEU:HD12	1:P:498:LEU:H	1.79	0.48
1:P:1302:ASN:OD1	1:P:1302:ASN:N	2.47	0.48
1:Q:1080:GLU:HB2	1:Q:1133:ALA:HB3	1.96	0.48
1:R:456:GLY:HA2	1:R:470:THR:HA	1.94	0.48
1:S:502:CYS:HB2	1:S:532:PRO:HD2	1.96	0.48
1:S:662:ARG:HG2	1:S:909:ALA:HB2	1.96	0.48
1:T:501:GLN:HG2	1:T:502:CYS:N	2.29	0.48
1:T:803:HIS:NE2	1:T:817:ILE:HD12	2.29	0.48
1:T:1160:ASP:OD1	1:T:1160:ASP:N	2.47	0.48
1:U:956:LEU:HD12	1:U:974:PHE:CZ	2.49	0.48
1:B:1344:CYS:SG	1:B:1345:GLY:N	2.86	0.48
1:C:786:PHE:HA	1:C:802:ILE:HD11	1.96	0.48
1:E:1150:PHE:CE2	1:E:1178:PRO:HB3	2.49	0.48
1:E:1384:ASP:OD1	1:E:1385:ALA:N	2.47	0.48
1:F:1322:SER:OG	1:F:1323:SER:N	2.47	0.48
1:G:427:GLN:CD	1:G:432:ASP:HB3	2.39	0.48
1:G:688:MET:O	1:G:691:THR:OG1	2.32	0.48
1:G:967:THR:OG1	1:G:968:ILE:N	2.47	0.48
3:e:151:MET:HG2	3:e:255:PHE:CE2	2.48	0.48
4:o:41:SER:OG	4:o:42:LEU:N	2.46	0.48
4:k:73:VAL:HG23	4:k:87:ILE:HD13	1.96	0.48
3:h:189:GLY:C	3:h:191:LEU:H	2.22	0.48
4:m:78:ILE:HD11	4:m:81:LYS:HG2	1.95	0.48
4:m:151:LYS:HE3	4:m:176:ASP:HB3	1.95	0.48
4:s:32:THR:HB	4:s:69:ARG:HG2	1.95	0.48
1:z:1075:ASP:OD1	1:z:1075:ASP:N	2.47	0.48
1:A:847:THR:HG22	1:A:957:ILE:HG22	1.94	0.48
1:M:223:ASN:HD21	1:M:225:VAL:HG12	1.79	0.48
1:M:269:SER:OG	1:M:270:VAL:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:824:GLU:O	1:M:828:LEU:HG	2.14	0.48
1:M:1368:GLY:H	1:O:1383:ARG:NH1	2.12	0.48
1:N:501:GLN:OE1	1:N:502:CYS:N	2.45	0.48
1:N:847:THR:HG22	1:N:957:ILE:HG12	1.96	0.48
1:N:970:THR:OG1	1:N:971:GLY:N	2.47	0.48
1:N:1264:TRP:O	1:N:1270:SER:OG	2.30	0.48
1:O:29:ILE:HG13	1:O:30:ILE:N	2.28	0.48
1:O:734:GLU:OE2	1:O:769:ARG:HD2	2.14	0.48
1:O:1237:ARG:HH22	1:O:1307:THR:C	2.22	0.48
1:Q:184:VAL:HG11	1:Q:1112:LEU:HD13	1.96	0.48
1:Q:1221:ALA:HA	1:Q:1350:ALA:O	2.14	0.48
1:T:433:ARG:NH2	1:T:606:SER:OG	2.44	0.48
1:U:1394:LEU:HD22	1:U:1395:PRO:HD2	1.96	0.48
1:B:207:LEU:HB3	1:B:1130:ALA:HB2	1.96	0.48
1:B:398:GLU:HG2	1:B:409:TYR:CE1	2.49	0.48
1:B:421:MET:HE3	1:B:457:ILE:HD13	1.95	0.48
1:B:531:MET:HB3	1:B:533:HIS:O	2.14	0.48
1:B:824:GLU:O	1:B:828:LEU:HG	2.14	0.48
1:B:884:LEU:HD23	1:B:884:LEU:O	2.14	0.48
2:H:96:VAL:HG21	1:C:896:VAL:HG21	1.96	0.48
1:C:1374:GLU:O	1:C:1381:LEU:N	2.43	0.48
2:I:93:ARG:HH21	1:E:892:ASN:ND2	2.11	0.48
1:E:840:PHE:HA	1:E:1036:PHE:CZ	2.49	0.48
1:F:651:HIS:ND1	1:F:651:HIS:O	2.46	0.48
1:G:603:CYS:O	1:G:608:ARG:NH1	2.47	0.48
1:G:775:VAL:O	1:G:778:ARG:N	2.47	0.48
3:e:181:ALA:HB1	3:e:183:TRP:NE1	2.29	0.48
4:j:78:ILE:O	4:j:80:GLY:N	2.46	0.48
4:j:199:ALA:N	4:j:202:ARG:HH11	2.11	0.48
4:o:15:LEU:HD23	4:o:15:LEU:H	1.78	0.48
4:o:110:ASP:O	4:o:295:ARG:HG3	2.14	0.48
4:o:112:ILE:HA	4:o:141:PRO:HA	1.94	0.48
3:f:122:ILE:HG13	4:k:297:CYS:SG	2.54	0.48
4:p:115:LEU:HD12	4:p:140:ILE:HG13	1.96	0.48
3:g:182:PRO:O	3:g:185:VAL:HG23	2.14	0.48
3:h:181:ALA:HB1	3:h:183:TRP:NE1	2.28	0.48
4:m:208:LEU:O	4:m:212:ILE:HD13	2.14	0.48
1:z:205:PRO:O	1:z:1129:CYS:N	2.47	0.48
1:A:655:ARG:CZ	1:A:805:ARG:HH22	2.27	0.48
1:M:1238:ASP:OD1	1:M:1305:CYS:HB3	2.13	0.48
2:W:12:ASP:HB2	2:W:15:ASN:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:637:ARG:O	1:O:962:GLN:NE2	2.47	0.48
1:S:517:ASP:O	1:S:522:ARG:NH1	2.47	0.48
1:S:1177:ASN:N	1:S:1177:ASN:OD1	2.44	0.48
2:c:29:PRO:HA	2:c:32:LEU:HB3	1.96	0.48
1:U:67:ASP:OD1	1:B:104:ASP:N	2.42	0.48
2:d:8:ARG:HH11	2:d:32:LEU:HD13	1.79	0.48
1:C:1225:ARG:NH1	1:C:1229:SER:OG	2.46	0.48
2:I:49:ASP:OD1	2:I:50:ILE:N	2.44	0.48
1:E:516:LEU:HD11	1:E:520:MET:HE3	1.95	0.48
1:F:446:GLU:OE1	1:F:446:GLU:N	2.42	0.48
2:K:92:LEU:HD21	2:L:54:ARG:HB3	1.96	0.48
1:G:739:LEU:HB3	1:G:1053:ILE:HD12	1.96	0.48
3:f:181:ALA:HB1	3:f:183:TRP:NE1	2.28	0.48
3:g:131:PHE:HZ	3:g:262:LEU:HD13	1.79	0.48
4:l:191:LEU:HB3	4:l:193:HIS:CE1	2.49	0.48
4:q:249:THR:HA	4:q:252:LEU:HB2	1.96	0.48
4:r:12:PRO:O	4:r:15:LEU:HD23	2.14	0.48
1:z:93:CYS:SG	1:z:1092:TYR:HB3	2.54	0.48
1:z:159:TYR:CG	1:z:163:THR:HB	2.49	0.48
1:A:794:PHE:CE2	1:A:853:ASP:HA	2.49	0.47
1:M:1185:PHE:CD2	3:i:311:LEU:HD13	2.49	0.47
1:N:961:TYR:CZ	1:N:963:ALA:HB2	2.49	0.47
1:N:1197:ALA:HB2	1:P:1253:VAL:HB	1.96	0.47
2:W:96:VAL:HG11	1:P:897:TYR:CE1	2.49	0.47
1:Q:531:MET:O	1:Q:533:HIS:N	2.47	0.47
1:R:1285:ALA:HB2	4:p:53:ASN:HB3	1.95	0.47
1:S:79:PHE:HA	1:S:186:ASP:OD2	2.14	0.47
1:U:140:SER:OG	1:U:1115:PRO:HB3	2.14	0.47
1:U:614:GLN:O	1:U:617:LEU:HD22	2.13	0.47
1:U:629:ALA:O	1:U:633:THR:HG23	2.13	0.47
1:U:1196:ILE:HD11	1:B:224:ARG:NH2	2.21	0.47
1:B:25:ILE:HG21	1:B:51:PHE:HE1	1.79	0.47
1:B:432:ASP:OD1	1:B:432:ASP:N	2.45	0.47
1:C:320:MET:HE3	1:C:338:ARG:HG3	1.96	0.47
1:C:1326:THR:OG1	1:C:1328:TYR:O	2.31	0.47
1:E:775:VAL:HG22	1:E:927:ILE:HG22	1.96	0.47
1:E:807:VAL:HG12	2:J:83:PHE:CZ	2.48	0.47
1:E:857:PRO:HG3	2:J:58:THR:HG22	1.96	0.47
1:F:125:ASP:OD1	1:F:126:GLN:N	2.47	0.47
1:F:753:LEU:HB2	1:F:953:TYR:HE1	1.79	0.47
1:G:524:MET:HB3	1:G:525:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1075:ASP:OD1	1:G:1076:ARG:N	2.47	0.47
3:h:131:PHE:HZ	3:h:262:LEU:HD13	1.79	0.47
3:i:318:LEU:HD22	4:s:36:LEU:HD23	1.96	0.47
1:z:87:LEU:HA	1:z:288:VAL:HG21	1.96	0.47
1:A:409:TYR:HD1	1:A:410:PRO:HD2	1.79	0.47
1:M:586:THR:HG22	1:M:587:VAL:N	2.28	0.47
1:N:218:PRO:O	1:N:219:GLU:HG3	2.14	0.47
2:W:8:ARG:HD3	2:W:9:VAL:HG13	1.96	0.47
1:O:219:GLU:C	1:O:221:HIS:H	2.21	0.47
1:P:924:THR:OG1	1:P:953:TYR:O	2.24	0.47
2:Y:9:VAL:HG22	2:Y:11:PHE:H	1.79	0.47
1:Q:1076:ARG:NH2	1:Q:1200:GLN:OE1	2.40	0.47
2:Z:69:ARG:HH22	2:Z:79:ARG:NH2	2.12	0.47
1:R:269:SER:OG	1:R:270:VAL:N	2.47	0.47
1:S:104:ASP:N	1:S:104:ASP:OD1	2.47	0.47
1:T:882:HIS:HD2	1:T:884:LEU:H	1.63	0.47
1:U:1250:GLN:HE22	1:G:1193:SER:HA	1.79	0.47
1:U:1260:THR:HG21	1:U:1266:SER:HB2	1.95	0.47
1:B:154:LEU:O	1:B:170:ARG:NH1	2.47	0.47
2:H:24:ILE:H	2:H:24:ILE:HD12	1.79	0.47
1:C:450:ARG:CZ	1:E:431:MET:HE3	2.45	0.47
1:E:801:LEU:HD22	1:E:953:TYR:CD2	2.50	0.47
1:F:214:ASN:ND2	1:F:265:CYS:HB2	2.29	0.47
1:F:1300:GLU:OE1	1:F:1300:GLU:N	2.47	0.47
2:K:8:ARG:HH12	2:K:24:ILE:HG21	1.79	0.47
3:e:131:PHE:HZ	3:e:262:LEU:HD13	1.79	0.47
4:j:126:ARG:HA	4:j:133:GLU:OE1	2.14	0.47
4:j:144:LEU:HD12	4:j:147:GLU:HB2	1.96	0.47
4:o:149:ILE:O	4:o:153:VAL:HG23	2.14	0.47
4:p:254:ASN:OD1	4:p:255:ILE:N	2.47	0.47
4:q:99:GLN:NE2	4:q:308:GLY:O	2.47	0.47
3:h:231:MET:HE3	3:h:235:LEU:HG	1.96	0.47
4:m:157:VAL:HA	4:m:160:THR:HG22	1.95	0.47
3:i:318:LEU:HD11	3:i:442:THR:CG2	2.42	0.47
1:A:91:CYS:HB3	1:A:196:LEU:HD21	1.96	0.47
1:A:245:MET:HB3	1:A:245:MET:HE2	1.77	0.47
1:A:877:PRO:HA	1:A:882:HIS:HD2	1.78	0.47
2:D:13:PRO:HD2	2:D:15:ASN:ND2	2.29	0.47
1:N:507:TYR:CE1	1:N:580:PRO:HB3	2.48	0.47
1:N:634:PHE:HA	1:N:959:MET:HE3	1.96	0.47
1:N:807:VAL:HB	2:W:83:PHE:CD2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:772:ALA:O	1:O:930:SER:OG	2.30	0.47
1:P:649:VAL:HG22	1:P:916:LEU:HD13	1.95	0.47
2:Y:16:PRO:HB3	2:Y:20:SER:OG	2.14	0.47
1:Q:1180:GLU:HB3	1:Q:1181:PRO:HD3	1.95	0.47
2:Z:50:ILE:H	2:Z:50:ILE:HD12	1.77	0.47
1:S:882:HIS:HD2	1:S:884:LEU:N	2.03	0.47
2:b:73:ASN:OD1	2:b:74:ALA:N	2.48	0.47
1:U:296:LYS:HA	1:U:299:LEU:HB3	1.96	0.47
1:U:1290:SER:OG	1:U:1293:PHE:HB2	2.13	0.47
1:B:545:LEU:H	1:B:545:LEU:HD12	1.78	0.47
1:B:835:ILE:C	1:B:838:PRO:HD2	2.39	0.47
1:B:1060:ARG:HE	1:B:1060:ARG:HB2	1.51	0.47
1:B:1351:TYR:CD2	1:B:1387:PRO:HD3	2.50	0.47
1:C:263:VAL:HG12	1:C:390:LYS:HD2	1.95	0.47
1:C:539:ASN:HB3	1:C:542:LEU:HD21	1.96	0.47
1:F:832:TYR:HD1	1:F:836:VAL:HB	1.79	0.47
3:f:131:PHE:HZ	3:f:262:LEU:HD13	1.79	0.47
3:g:145:LEU:HD22	3:g:256:ILE:HG12	1.96	0.47
4:q:12:PRO:HB2	4:q:14:GLU:HG2	1.95	0.47
4:m:116:PRO:O	4:m:118:VAL:N	2.46	0.47
3:i:145:LEU:HD22	3:i:256:ILE:HG12	1.97	0.47
2:V:32:LEU:HD23	2:V:36:LEU:HD11	1.96	0.47
1:N:808:ARG:HH12	2:W:85:GLU:H	1.62	0.47
1:O:420:ILE:HD13	1:O:1222:CYS:SG	2.54	0.47
1:Q:911:LEU:HG	2:Z:69:ARG:HE	1.80	0.47
1:R:289:LEU:HD23	1:R:394:LEU:HD13	1.97	0.47
1:S:434:TYR:O	1:S:1377:LEU:N	2.45	0.47
1:S:1354:LEU:N	1:S:1384:ASP:HB3	2.28	0.47
2:b:45:GLY:O	2:b:50:ILE:HG13	2.15	0.47
1:T:469:LEU:HD13	1:T:1143:ASN:HB2	1.96	0.47
1:U:45:ARG:HE	1:U:45:ARG:CA	2.27	0.47
1:U:1200:GLN:NE2	1:U:1329:GLN:HA	2.30	0.47
1:B:847:THR:HA	1:B:957:ILE:HA	1.96	0.47
1:C:560:ASN:HB3	1:C:563:PHE:HB2	1.95	0.47
1:C:1091:SER:HB2	1:C:1121:LEU:HD11	1.97	0.47
2:I:10:VAL:HG13	2:I:11:PHE:CD1	2.44	0.47
1:F:751:PRO:HD3	1:F:834:TYR:HE1	1.79	0.47
1:G:835:ILE:C	1:G:838:PRO:HD2	2.39	0.47
4:o:103:PRO:HD2	4:o:119:PHE:CD2	2.49	0.47
3:f:145:LEU:HD22	3:f:256:ILE:HG12	1.96	0.47
3:g:310:ASP:CB	3:g:357:LEU:CD1	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:531:MET:HE2	1:A:1006:VAL:HG21	1.96	0.47
1:M:49:ASP:OD2	1:S:135:ARG:N	2.47	0.47
1:M:1308:LEU:HD23	1:M:1308:LEU:H	1.79	0.47
1:N:91:CYS:HA	1:N:1090:GLU:O	2.15	0.47
2:W:8:ARG:N	2:W:32:LEU:HD11	2.29	0.47
1:O:221:HIS:HE2	1:R:42:CYS:HG	1.63	0.47
1:O:245:MET:HB2	1:O:1132:ALA:HB1	1.97	0.47
1:O:725:THR:HB	1:O:740:ASN:ND2	2.29	0.47
1:O:1311:LEU:HD12	1:O:1346:LEU:HD11	1.96	0.47
1:P:508:VAL:HG23	1:P:575:PRO:HA	1.97	0.47
1:Q:420:ILE:HG22	1:Q:1072:VAL:HG22	1.95	0.47
1:S:781:TYR:HB2	1:S:801:LEU:HD13	1.97	0.47
1:S:1321:GLN:HE22	1:S:1340:THR:HG21	1.80	0.47
1:T:655:ARG:HD3	1:T:805:ARG:HB2	1.96	0.47
1:U:259:LEU:HD13	1:U:304:LEU:HD11	1.96	0.47
1:B:269:SER:OG	1:B:270:VAL:N	2.47	0.47
1:C:605:ILE:HG23	1:C:1028:HIS:CD2	2.49	0.47
1:C:656:ASN:HD21	1:C:919:ASP:HB3	1.80	0.47
1:C:688:MET:O	1:C:692:THR:OG1	2.16	0.47
1:E:593:ILE:H	1:E:593:ILE:HD12	1.80	0.47
1:F:89:VAL:O	1:F:1088:ALA:N	2.41	0.47
1:F:836:VAL:O	1:F:840:PHE:HD2	1.98	0.47
1:G:479:CYS:O	1:G:1166:LEU:HD21	2.13	0.47
1:G:978:PRO:HD2	1:G:1010:PRO:HD3	1.96	0.47
3:e:251:PHE:HE2	3:e:430:LEU:HD22	1.79	0.47
3:e:320:HIS:HE1	3:e:346:ASN:HA	1.79	0.47
4:o:20:THR:HA	4:o:23:LEU:HG	1.95	0.47
3:g:181:ALA:HB1	3:g:183:TRP:NE1	2.29	0.47
4:l:29:LYS:HD3	4:l:136:PHE:CD1	2.50	0.47
3:i:289:LYS:HE2	3:i:295:VAL:HG23	1.96	0.47
1:z:272:VAL:HG13	1:z:276:THR:HG21	1.96	0.47
1:z:417:ILE:HG22	1:z:418:THR:H	1.79	0.47
1:A:1225:ARG:NH1	1:A:1227:ARG:O	2.48	0.47
1:M:980:ASN:HD21	1:M:1021:ILE:HB	1.80	0.47
1:N:131:TYR:CE2	1:B:54:ILE:HD12	2.49	0.47
1:N:262:MET:HE2	1:N:1084:TYR:HB3	1.97	0.47
1:N:636:ASP:OD2	1:N:677:ARG:HD3	2.15	0.47
1:O:503:TYR:CD1	1:O:569:PRO:HD3	2.49	0.47
1:O:561:PRO:HA	1:O:1264:TRP:CZ2	2.50	0.47
1:R:633:THR:HG22	1:R:677:ARG:HB3	1.95	0.47
1:S:594:ILE:HD11	1:S:1025:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:1231:MET:HB2	1:T:1310:ARG:HH21	1.78	0.47
1:U:432:ASP:OD1	1:U:432:ASP:N	2.37	0.47
1:E:1051:THR:O	1:E:1053:ILE:N	2.47	0.47
1:E:1283:THR:OG1	1:E:1286:SER:OG	2.25	0.47
1:E:1363:ARG:HH21	1:F:1383:ARG:CZ	2.27	0.47
1:F:717:LEU:HA	1:F:717:LEU:HD23	1.76	0.47
1:G:468:GLN:HE21	1:G:470:THR:HB	1.80	0.47
1:G:1012:PHE:CD2	1:G:1012:PHE:C	2.92	0.47
4:j:142:GLN:HA	4:j:145:MET:HG3	1.97	0.47
4:l:31:ILE:O	4:l:72:ALA:N	2.48	0.47
4:s:233:ASP:OD1	4:s:234:GLY:N	2.48	0.47
1:A:669:ARG:NH1	1:A:700:PRO:HD3	2.29	0.47
1:A:745:ASP:OD1	1:A:746:ASP:N	2.47	0.47
1:A:1286:SER:O	1:A:1331:LYS:NZ	2.31	0.47
2:D:12:ASP:OD2	2:D:15:ASN:HB2	2.13	0.47
1:M:489:THR:O	1:M:493:LEU:CB	2.60	0.47
1:M:724:PHE:CE2	1:M:1063:PHE:HB2	2.50	0.47
1:M:1248:HIS:NE2	1:M:1267:GLN:HG3	2.30	0.47
2:V:43:GLN:HB3	2:V:47:ARG:HG2	1.96	0.47
1:N:961:TYR:HB2	1:N:988:HIS:CD2	2.49	0.47
1:O:240:ALA:O	1:O:247:ARG:NH2	2.39	0.47
1:O:443:THR:HG22	1:O:445:SER:H	1.79	0.47
1:O:846:CYS:HB3	1:O:988:HIS:CD2	2.50	0.47
1:P:469:LEU:HD13	1:P:1143:ASN:HB2	1.96	0.47
1:P:717:LEU:HD23	1:P:1044:LEU:HD22	1.97	0.47
1:P:757:ASP:CG	1:P:820:HIS:H	2.21	0.47
1:P:1252:ASP:OD1	1:P:1253:VAL:N	2.47	0.47
1:Q:244:PHE:HE2	1:Q:255:ILE:HG23	1.78	0.47
1:Q:952:LEU:HG	1:Q:979:VAL:HG11	1.97	0.47
1:R:163:THR:HG23	1:R:166:ASP:H	1.79	0.47
1:S:93:CYS:HA	1:S:1092:TYR:HB2	1.96	0.47
1:S:552:ASN:HD21	1:S:554:ARG:HB2	1.79	0.47
1:S:808:ARG:NH1	2:b:84:ALA:HB3	2.27	0.47
1:T:149:SER:C	1:T:151:ALA:H	2.22	0.47
1:T:285:VAL:HG21	1:T:393:PHE:HE1	1.79	0.47
1:T:675:SER:OG	1:T:677:ARG:HG3	2.14	0.47
1:T:1357:SER:O	1:T:1357:SER:OG	2.30	0.47
1:U:428:ALA:HB2	1:U:1212:SER:HA	1.97	0.47
1:U:429:ASN:HB3	1:U:432:ASP:OD1	2.13	0.47
1:U:494:ARG:HG3	1:U:587:VAL:HG12	1.96	0.47
1:U:563:PHE:HA	1:U:591:LEU:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:609:ASP:OD1	1:U:610:CYS:N	2.47	0.47
1:U:611:ARG:O	1:U:614:GLN:HB3	2.14	0.47
1:U:1040:THR:OG1	1:U:1041:TYR:N	2.48	0.47
2:d:15:ASN:N	2:d:16:PRO:HD3	2.29	0.47
1:B:77:LEU:HD11	1:C:114:PRO:HB3	1.95	0.47
1:B:860:GLN:NE2	1:B:914:GLN:HE21	2.12	0.47
1:C:134:LYS:HE2	1:C:1120:ASP:HB3	1.96	0.47
1:C:653:ASN:HD22	1:C:656:ASN:ND2	2.12	0.47
1:C:846:CYS:SG	1:C:847:THR:N	2.88	0.47
1:E:550:PRO:HG3	1:E:1259:ALA:HB2	1.96	0.47
2:J:12:ASP:HB2	2:J:15:ASN:OD1	2.15	0.47
1:F:610:CYS:O	1:F:613:THR:OG1	2.30	0.47
1:F:985:CYS:SG	1:F:988:HIS:ND1	2.80	0.47
1:F:1056:THR:CG2	1:F:1169:ILE:HG12	2.44	0.47
2:K:8:ARG:NH1	2:K:24:ILE:HG13	2.27	0.47
1:G:493:LEU:HD22	1:G:587:VAL:HG11	1.96	0.47
1:G:597:ASN:ND2	1:G:1022:ARG:HD3	2.30	0.47
4:j:124:SER:OG	4:j:134:ILE:O	2.33	0.47
3:f:320:HIS:HE1	3:f:346:ASN:HA	1.79	0.47
4:k:114:LEU:HD22	4:k:137:PRO:HB2	1.96	0.47
4:p:230:GLY:HA2	4:p:236:VAL:HG23	1.94	0.47
3:h:320:HIS:HE1	3:h:346:ASN:HA	1.79	0.47
4:r:159:ARG:HA	4:r:159:ARG:CZ	2.44	0.47
3:i:131:PHE:HZ	3:i:262:LEU:HD13	1.79	0.47
3:i:320:HIS:HE1	3:i:346:ASN:HA	1.79	0.47
3:i:442:THR:HG22	3:i:443:ILE:N	2.27	0.47
1:z:1049:LYS:O	1:z:1054:SER:OG	2.26	0.47
1:z:1078:ALA:O	1:z:1135:ARG:N	2.33	0.47
1:A:1195:GLY:HA2	1:M:1234:MET:HG3	1.97	0.47
1:M:854:ARG:HD3	1:M:854:ARG:HA	1.74	0.47
1:N:112:GLN:HB2	1:O:77:LEU:HD21	1.97	0.47
1:N:149:SER:C	1:N:151:ALA:H	2.23	0.47
1:N:882:HIS:CD2	1:N:884:LEU:H	2.33	0.47
2:W:56:ILE:HA	2:W:59:VAL:HG12	1.96	0.47
1:O:59:ASN:ND2	1:B:149:SER:O	2.48	0.47
1:O:132:MET:N	1:O:132:MET:SD	2.88	0.47
1:O:136:ILE:HG22	1:O:1119:VAL:HB	1.97	0.47
1:O:291:THR:OG1	1:O:292:THR:N	2.48	0.47
1:P:325:THR:O	1:P:329:THR:HG23	2.15	0.47
1:P:427:GLN:HE21	1:P:1215:LEU:HD12	1.79	0.47
1:P:996:THR:HG22	1:P:999:ARG:HE	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:1076:ARG:CZ	1:P:1324:THR:HG22	2.45	0.47
1:Q:502:CYS:SG	1:Q:503:TYR:N	2.87	0.47
1:R:480:HIS:CD2	1:R:482:SER:H	2.33	0.47
1:R:990:ALA:HA	1:R:995:MET:HE2	1.96	0.47
1:T:1179:THR:HG22	1:T:1181:PRO:HD2	1.96	0.47
1:T:1290:SER:OG	1:T:1293:PHE:HB2	2.15	0.47
2:d:10:VAL:HB	2:d:36:LEU:HD13	1.97	0.47
1:B:596:GLY:HA2	1:B:608:ARG:NH2	2.30	0.47
1:B:1080:GLU:OE1	1:B:1080:GLU:N	2.47	0.47
1:E:885:HIS:O	1:E:889:LEU:HG	2.14	0.47
1:F:753:LEU:HB2	1:F:953:TYR:CE1	2.50	0.47
1:F:855:LEU:O	1:F:859:LEU:N	2.43	0.47
1:G:488:ALA:HB3	1:G:1274:ARG:NE	2.30	0.47
1:G:605:ILE:HG23	1:G:1028:HIS:HD2	1.80	0.47
1:G:1310:ARG:HA	1:G:1313:MET:HG2	1.95	0.47
3:e:475:THR:HA	4:j:111:TYR:CE2	2.50	0.47
3:f:180:THR:OG1	3:f:181:ALA:N	2.48	0.47
4:p:57:PRO:HG2	4:p:62:LEU:HG	1.96	0.47
3:g:422:ASP:HA	4:q:217:LEU:HD21	1.96	0.47
4:q:201:ILE:HA	4:q:204:LEU:HG	1.96	0.47
4:m:276:SER:O	4:m:280:THR:HG22	2.15	0.47
4:s:101:THR:HG23	4:s:138:LEU:HA	1.97	0.47
1:z:68:ILE:O	1:z:70:LEU:HG	2.14	0.47
1:z:1157:MET:HE1	1:z:1166:LEU:HD12	1.97	0.47
1:A:1227:ARG:NH2	1:A:1247:ASP:O	2.47	0.47
1:N:892:ASN:ND2	2:X:94:PRO:O	2.47	0.47
1:N:1176:LEU:HD21	1:N:1288:ILE:HD12	1.97	0.47
1:O:808:ARG:NH1	2:X:85:GLU:H	2.13	0.47
1:Q:714:VAL:HG12	1:Q:828:LEU:HD22	1.97	0.47
1:R:463:ASP:OD2	1:R:1198:ARG:NH1	2.44	0.47
1:S:1023:GLN:NE2	1:S:1023:GLN:O	2.48	0.47
1:S:1372:ALA:HB1	1:S:1383:ARG:NH2	2.30	0.47
1:U:435:THR:OG1	1:G:442:SER:OG	2.32	0.47
1:U:824:GLU:O	1:U:828:LEU:HG	2.14	0.47
1:C:815:ILE:HD12	1:C:816:PRO:HD2	1.97	0.47
2:I:91:TRP:C	2:I:93:ARG:H	2.22	0.47
1:E:620:HIS:HD2	1:E:713:HIS:ND1	2.13	0.47
1:F:30:ILE:H	1:F:30:ILE:HD12	1.80	0.47
1:F:325:THR:O	1:F:329:THR:HG23	2.15	0.47
1:G:224:ARG:HA	1:G:227:ARG:NH1	2.30	0.47
1:G:805:ARG:HD3	1:G:806:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1304:ASN:CG	1:G:1310:ARG:HG2	2.40	0.47
4:l:110:ASP:OD2	4:l:180:TYR:OH	2.32	0.47
4:l:150:ALA:O	4:q:274:ILE:HD11	2.15	0.47
3:h:145:LEU:HD22	3:h:256:ILE:HG12	1.96	0.47
1:z:284:GLN:HE21	1:z:1087:ARG:HH22	1.63	0.47
1:A:156:SER:OG	1:A:157:ASN:N	2.48	0.47
1:A:1364:THR:HG23	1:A:1366:HIS:H	1.80	0.47
1:M:244:PHE:CZ	1:M:245:MET:HE3	2.49	0.47
1:O:53:GLN:HG2	1:C:131:TYR:HE1	1.80	0.47
1:O:882:HIS:HD2	1:O:884:LEU:HB2	1.80	0.47
1:P:688:MET:O	1:P:691:THR:OG1	2.28	0.47
1:R:401:VAL:HG22	1:R:402:TYR:H	1.80	0.47
2:a:91:TRP:O	2:a:92:LEU:HG	2.15	0.47
1:S:586:THR:HG22	1:S:587:VAL:N	2.30	0.47
1:T:564:ASP:HB3	1:T:590:THR:HG23	1.97	0.47
1:T:782:GLN:O	1:T:800:VAL:HA	2.14	0.47
1:U:971:GLY:H	1:U:993:ARG:HH22	1.62	0.47
1:U:1234:MET:O	1:U:1236:ASP:N	2.46	0.47
2:H:94:PRO:HG3	1:C:973:PHE:HE1	1.79	0.47
1:C:880:PRO:HA	1:C:885:HIS:CG	2.50	0.47
1:F:872:GLU:HG3	2:K:107:ILE:HB	1.97	0.47
1:G:563:PHE:CE1	1:G:591:LEU:HG	2.50	0.47
4:o:35:THR:OG1	4:o:36:LEU:N	2.48	0.47
4:o:73:VAL:HG22	4:o:87:ILE:HD11	1.97	0.47
4:o:213:ASN:N	4:o:216:CYS:SG	2.84	0.47
4:k:8:GLU:N	4:k:8:GLU:OE2	2.48	0.47
1:z:212:PRO:O	1:z:215:LYS:NZ	2.48	0.47
1:A:1363:ARG:HH12	1:A:1395:PRO:HB2	1.79	0.46
1:M:519:GLN:O	1:M:523:PHE:HB3	2.14	0.46
1:M:595:ASN:ND2	1:M:611:ARG:HH12	2.13	0.46
2:V:51:ALA:HA	2:V:54:ARG:HG2	1.97	0.46
1:N:737:GLU:HB2	1:N:744:THR:HG21	1.97	0.46
1:N:749:ILE:HG22	1:N:750:ALA:O	2.14	0.46
1:O:990:ALA:N	1:O:1000:ARG:HH22	2.12	0.46
1:P:58:ASP:O	1:P:61:LEU:HB2	2.15	0.46
1:R:1023:GLN:N	1:R:1024:PRO:HD2	2.30	0.46
2:a:22:GLU:HG3	2:a:63:ALA:HB1	1.98	0.46
2:a:43:GLN:N	2:a:44:PRO:HD3	2.30	0.46
1:S:266:THR:HG22	1:S:267:GLN:H	1.80	0.46
1:S:1372:ALA:O	1:S:1381:LEU:HD22	2.16	0.46
1:U:25:ILE:HB	1:U:26:PRO:CD	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:527:TRP:HD1	1:U:530:MET:HB3	1.80	0.46
1:U:1361:MET:HB3	1:U:1361:MET:HE2	1.69	0.46
1:B:435:THR:HG23	1:B:1376:HIS:CD2	2.50	0.46
1:B:761:TYR:HA	1:B:764:GLU:HG2	1.96	0.46
1:B:837:ILE:O	1:B:841:SER:CB	2.63	0.46
1:B:1051:THR:O	1:B:1055:LEU:HG	2.16	0.46
1:C:508:VAL:HG23	1:C:575:PRO:HA	1.97	0.46
1:E:95:LYS:N	1:E:318:GLY:O	2.42	0.46
1:E:461:ASN:CG	1:E:462:LYS:H	2.22	0.46
1:E:523:PHE:CG	1:E:523:PHE:O	2.68	0.46
1:E:739:LEU:O	1:E:1049:LYS:HD2	2.16	0.46
1:G:711:LEU:O	1:G:714:VAL:HG12	2.15	0.46
1:G:1169:ILE:O	1:G:1172:SER:OG	2.33	0.46
4:k:46:ALA:HB2	4:k:132:LEU:HD13	1.96	0.46
4:m:180:TYR:CD2	4:m:181:ASN:HB2	2.50	0.46
1:A:233:ASP:OD1	1:A:236:ARG:NH2	2.48	0.46
1:M:925:THR:O	1:M:953:TYR:N	2.37	0.46
1:M:1354:LEU:HD12	1:M:1384:ASP:H	1.79	0.46
1:O:847:THR:HG23	1:O:983:PHE:HB3	1.97	0.46
1:O:1023:GLN:N	1:O:1024:PRO:HD2	2.31	0.46
1:P:573:ASP:N	1:P:573:ASP:OD1	2.46	0.46
1:P:798:ASP:OD1	1:P:798:ASP:N	2.42	0.46
2:b:14:SER:O	2:b:14:SER:OG	2.25	0.46
2:b:16:PRO:HB3	2:b:21:VAL:HG13	1.96	0.46
1:T:870:ASP:OD1	1:T:870:ASP:N	2.49	0.46
1:T:1025:VAL:O	1:T:1029:VAL:HG13	2.15	0.46
1:U:247:ARG:HH12	1:U:1389:ARG:H	1.62	0.46
1:U:1007:PRO:HA	1:U:1008:PRO:HD3	1.85	0.46
1:U:1066:GLY:O	1:U:1067:ILE:HD13	2.15	0.46
1:U:1227:ARG:HE	1:U:1260:THR:HG22	1.80	0.46
1:U:1231:MET:HA	1:U:1241:ILE:HD11	1.97	0.46
2:d:16:PRO:O	2:d:19:PHE:HB3	2.15	0.46
1:C:279:ASN:OD1	1:C:283:ARG:N	2.47	0.46
1:C:516:LEU:O	1:C:520:MET:HB3	2.14	0.46
1:C:1075:ASP:OD2	1:C:1141:MET:HG2	2.15	0.46
2:I:80:THR:OG1	2:I:81:ALA:N	2.48	0.46
2:I:88:PRO:O	2:I:89:MET:HE2	2.15	0.46
1:E:1384:ASP:OD1	1:E:1386:SER:N	2.48	0.46
1:F:684:PHE:CZ	1:F:828:LEU:HG	2.51	0.46
1:F:701:GLU:O	1:F:705:ASN:HB2	2.16	0.46
1:F:778:ARG:NH1	1:F:798:ASP:HA	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1073:ARG:NH2	1:F:1141:MET:HB3	2.31	0.46
3:e:226:TYR:CD2	3:e:231:MET:HE2	2.41	0.46
4:o:91:THR:HA	4:o:315:GLN:HE22	1.79	0.46
4:m:175:ALA:O	4:m:177:VAL:HG23	2.15	0.46
4:m:213:ASN:HD21	4:r:246:VAL:HG12	1.81	0.46
1:z:279:ASN:ND2	1:z:308:ASP:OD2	2.49	0.46
1:A:564:ASP:OD1	1:A:592:ARG:NE	2.48	0.46
1:A:1023:GLN:N	1:A:1024:PRO:HD2	2.31	0.46
1:N:274:ARG:HE	1:N:275:ILE:H	1.64	0.46
1:N:672:TRP:O	1:N:676:HIS:N	2.38	0.46
1:N:1035:ASP:C	1:N:1037:ASN:H	2.24	0.46
1:T:518:VAL:HA	1:T:522:ARG:HB2	1.96	0.46
1:T:882:HIS:O	1:T:888:GLN:NE2	2.48	0.46
1:U:754:TRP:HE3	1:U:954:HIS:CD2	2.33	0.46
1:U:837:ILE:HB	1:U:838:PRO:HD3	1.97	0.46
1:B:229:ALA:O	1:B:232:SER:OG	2.31	0.46
1:B:1287:PRO:HB2	1:B:1330:PHE:HD2	1.81	0.46
1:C:1120:ASP:OD1	1:C:1121:LEU:N	2.48	0.46
2:I:8:ARG:N	2:I:32:LEU:HD21	2.29	0.46
1:E:1260:THR:OG1	1:E:1261:LEU:N	2.49	0.46
2:J:43:GLN:HB3	2:J:46:HIS:HB3	1.97	0.46
1:F:516:LEU:O	1:F:520:MET:HG3	2.15	0.46
1:F:726:ILE:HD12	1:G:541:HIS:CE1	2.49	0.46
1:F:774:ARG:O	1:F:927:ILE:HG13	2.15	0.46
1:F:978:PRO:HB3	1:F:983:PHE:O	2.15	0.46
1:G:538:VAL:HG21	1:G:1005:MET:O	2.15	0.46
1:G:926:ALA:HB1	1:G:1012:PHE:HE2	1.80	0.46
1:G:937:ALA:O	1:G:942:THR:HG21	2.15	0.46
1:G:1270:SER:OG	1:G:1271:TYR:N	2.48	0.46
1:G:1311:LEU:H	1:G:1311:LEU:HD12	1.79	0.46
4:k:177:VAL:HG11	4:k:184:ARG:HB3	1.98	0.46
3:g:180:THR:OG1	3:g:181:ALA:N	2.48	0.46
3:h:480:GLU:N	4:r:283:ARG:HH22	2.12	0.46
3:i:147:HIS:CD2	3:i:192:ARG:HH11	2.34	0.46
1:A:219:GLU:OE2	1:A:222:LEU:HA	2.15	0.46
1:A:848:MET:HG3	1:A:958:MET:HB2	1.97	0.46
1:M:423:MET:HE3	1:M:471:LEU:HD23	1.98	0.46
1:M:651:HIS:ND1	1:M:651:HIS:O	2.48	0.46
1:N:75:ASN:OD1	1:P:111:VAL:HA	2.15	0.46
1:O:132:MET:HG3	1:R:51:PHE:HD1	1.81	0.46
2:X:80:THR:O	2:X:100:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:299:LEU:HB3	1:Q:304:LEU:HD12	1.97	0.46
1:R:418:THR:HG22	1:R:1074:GLN:HB2	1.96	0.46
1:R:882:HIS:HD2	1:R:884:LEU:HB2	1.81	0.46
1:S:734:GLU:N	1:S:734:GLU:OE1	2.41	0.46
1:S:874:PRO:HG3	1:S:879:ASP:HB3	1.95	0.46
1:T:379:ARG:HD3	1:T:379:ARG:HA	1.74	0.46
1:T:657:PHE:HZ	1:T:694:LEU:HD11	1.80	0.46
1:T:1203:VAL:HG23	1:T:1329:GLN:HB2	1.98	0.46
1:U:137:HIS:HB2	1:U:1118:HIS:CE1	2.51	0.46
1:U:1252:ASP:HB2	1:U:1259:ALA:O	2.16	0.46
1:U:1314:GLU:OE1	1:U:1314:GLU:N	2.48	0.46
1:B:860:GLN:OE1	1:B:917:MET:HE3	2.15	0.46
1:C:322:LEU:O	1:C:322:LEU:HD23	2.15	0.46
1:C:1358:ASP:OD1	1:C:1359:ALA:N	2.49	0.46
1:E:145:PHE:HE2	1:E:147:ILE:HD11	1.80	0.46
1:E:915:GLU:OE1	1:E:915:GLU:N	2.41	0.46
1:F:326:ASN:OD1	1:F:326:ASN:N	2.46	0.46
1:F:423:MET:HE1	1:F:470:THR:C	2.40	0.46
1:G:848:MET:HE3	1:G:958:MET:SD	2.55	0.46
1:G:1001:VAL:HA	1:G:1004:LYS:HD2	1.97	0.46
1:G:1356:SER:OG	1:G:1381:LEU:HG	2.15	0.46
4:q:43:VAL:HA	4:q:132:LEU:HD21	1.96	0.46
4:n:36:LEU:C	4:n:37:ARG:HD2	2.40	0.46
1:z:137:HIS:HB2	1:z:1118:HIS:NE2	2.30	0.46
1:z:187:SER:HB2	1:z:190:ARG:HH21	1.81	0.46
1:z:289:LEU:O	1:z:394:LEU:HA	2.15	0.46
1:z:1339:MET:HA	1:z:1346:LEU:HD22	1.97	0.46
1:A:89:VAL:HA	1:A:277:HIS:CD2	2.51	0.46
1:A:623:THR:O	1:A:627:ILE:HG12	2.15	0.46
1:M:156:SER:O	1:M:158:THR:N	2.43	0.46
1:M:718:ARG:HD2	1:M:828:LEU:CD2	2.45	0.46
1:M:753:LEU:HD12	1:M:927:ILE:HD13	1.98	0.46
1:M:838:PRO:HB3	1:M:982:LEU:HD22	1.97	0.46
1:M:844:SER:O	1:M:844:SER:OG	2.32	0.46
1:M:956:LEU:HD23	1:M:956:LEU:HA	1.79	0.46
2:V:55:SER:O	2:V:58:THR:OG1	2.32	0.46
1:N:67:ASP:CG	1:P:103:ARG:HE	2.23	0.46
1:N:1026:ALA:O	1:N:1030:THR:OG1	2.25	0.46
1:O:683:ASN:OD1	1:O:684:PHE:N	2.49	0.46
1:O:694:LEU:HB3	1:O:699:LEU:HD23	1.98	0.46
1:O:1258:ARG:HH11	1:O:1261:LEU:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:634:PHE:CD2	1:Q:959:MET:HG2	2.51	0.46
1:Q:726:ILE:HB	1:Q:1057:HIS:CE1	2.50	0.46
1:R:1017:HIS:O	1:R:1022:ARG:NH2	2.48	0.46
1:S:880:PRO:HA	1:S:885:HIS:CG	2.50	0.46
1:T:544:ILE:O	1:T:548:ILE:HG12	2.15	0.46
1:T:847:THR:OG1	1:T:977:VAL:O	2.22	0.46
1:U:751:PRO:HD3	1:U:834:TYR:CE1	2.50	0.46
1:B:230:LEU:O	1:B:234:LEU:HG	2.16	0.46
1:B:1320:SER:OG	1:B:1338:GLU:O	2.23	0.46
1:C:291:THR:HB	1:C:1082:LEU:HD13	1.97	0.46
1:E:284:GLN:NE2	1:E:1087:ARG:HH11	2.13	0.46
1:E:1300:GLU:O	1:E:1304:ASN:ND2	2.48	0.46
1:F:328:VAL:O	1:F:332:VAL:HG22	2.15	0.46
1:F:798:ASP:O	1:F:923:ARG:NH2	2.49	0.46
4:o:17:PRO:HA	4:o:20:THR:HG22	1.98	0.46
4:p:97:PHE:HB2	4:p:311:THR:O	2.16	0.46
3:h:233:THR:O	3:h:237:ARG:HG2	2.16	0.46
3:h:332:GLN:O	3:h:332:GLN:HG2	2.15	0.46
1:A:764:GLU:O	1:A:767:ARG:NE	2.48	0.46
1:A:939:THR:H	1:A:942:THR:HG1	1.61	0.46
2:V:27:TYR:CG	2:V:28:THR:N	2.84	0.46
1:N:285:VAL:HG12	1:N:391:LEU:HD23	1.96	0.46
1:N:441:PHE:HD2	1:N:1376:HIS:CE1	2.34	0.46
1:O:145:PHE:HB3	1:O:184:VAL:HG21	1.97	0.46
1:Q:337:VAL:HB	1:Q:340:MET:HG2	1.98	0.46
1:Q:1215:LEU:HA	1:Q:1215:LEU:HD23	1.76	0.46
1:R:470:THR:HG23	1:R:472:ARG:HG2	1.98	0.46
1:R:784:LEU:HD22	1:R:802:ILE:HG22	1.97	0.46
1:T:803:HIS:HD2	1:T:820:HIS:NE2	2.13	0.46
1:T:1074:GLN:HE22	1:T:1321:GLN:NE2	2.14	0.46
1:U:279:ASN:HB2	1:U:308:ASP:OD2	2.16	0.46
1:U:458:PHE:N	1:U:1356:SER:O	2.49	0.46
1:U:1023:GLN:N	1:U:1024:PRO:HD2	2.30	0.46
1:B:290:VAL:N	1:B:1083:LEU:O	2.48	0.46
2:I:99:LYS:HZ1	1:E:900:ASN:HB3	1.81	0.46
1:E:570:GLY:O	1:E:572:VAL:HG23	2.16	0.46
1:E:762:ARG:NH2	1:E:930:SER:O	2.49	0.46
1:G:506:VAL:HG11	1:G:567:VAL:O	2.15	0.46
1:G:524:MET:O	1:G:999:ARG:HD3	2.15	0.46
1:G:827:ILE:O	1:G:831:ILE:HG12	2.15	0.46
1:G:859:LEU:HA	1:G:894:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:145:LEU:HD22	3:e:256:ILE:HG12	1.97	0.46
3:e:180:THR:OG1	3:e:181:ALA:N	2.48	0.46
4:o:30:ILE:HD12	4:o:73:VAL:HG12	1.97	0.46
3:f:147:HIS:CD2	3:f:192:ARG:HH11	2.34	0.46
3:i:125:VAL:HG23	3:i:271:LEU:HD21	1.98	0.46
4:s:102:SER:HB3	4:s:139:THR:O	2.15	0.46
1:z:86:GLY:O	1:z:89:VAL:HG12	2.16	0.46
1:z:397:LEU:HB3	1:z:409:TYR:OH	2.16	0.46
1:A:450:ARG:HH12	1:M:431:MET:HB3	1.81	0.46
1:M:1159:HIS:O	1:M:1162:VAL:HG22	2.16	0.46
1:M:1303:THR:HG1	1:M:1306:ASN:HB2	1.80	0.46
2:V:91:TRP:CE3	2:V:92:LEU:HG	2.50	0.46
1:N:754:TRP:CE3	1:N:954:HIS:HA	2.50	0.46
1:N:848:MET:HE2	1:N:976:PRO:HB3	1.97	0.46
1:P:683:ASN:OD1	1:P:833:TYR:OH	2.34	0.46
1:P:796:ARG:NH2	1:P:798:ASP:OD2	2.44	0.46
1:P:893:SER:O	1:P:896:VAL:HG12	2.15	0.46
1:P:1084:TYR:CE2	1:P:1086:GLU:HG3	2.51	0.46
1:Q:267:GLN:OE1	1:Q:267:GLN:N	2.49	0.46
1:Q:321:VAL:HG23	1:Q:322:LEU:N	2.30	0.46
1:Q:1053:ILE:HD13	1:Q:1166:LEU:HD21	1.98	0.46
1:R:1225:ARG:C	1:R:1227:ARG:H	2.24	0.46
1:T:660:LEU:HD11	1:T:916:LEU:HD21	1.97	0.46
1:U:1223:ASN:ND2	1:U:1225:ARG:HB2	2.31	0.46
1:U:1257:ASP:OD1	1:U:1258:ARG:N	2.49	0.46
1:E:1079:THR:OG1	1:E:1080:GLU:N	2.49	0.46
1:F:392:VAL:HG11	1:F:1084:TYR:HE1	1.79	0.46
1:F:631:LYS:HG2	1:F:635:GLU:OE1	2.16	0.46
1:F:1200:GLN:NE2	1:F:1324:THR:HA	2.31	0.46
1:G:513:GLU:C	1:G:797:ARG:HH22	2.24	0.46
1:G:1152:ARG:NE	1:G:1188:LEU:HD22	2.30	0.46
4:o:77:VAL:HG13	4:o:82:LEU:HD12	1.97	0.46
4:o:216:CYS:SG	4:o:273:THR:HG21	2.56	0.46
3:f:233:THR:O	3:f:237:ARG:HG2	2.16	0.46
3:f:424:ARG:NH2	4:p:214:GLU:OE1	2.45	0.46
1:M:54:ILE:HG23	1:M:58:ASP:HB3	1.97	0.46
1:M:1320:SER:O	1:M:1332:ARG:NH1	2.46	0.46
1:N:65:GLN:NE2	1:P:103:ARG:HG3	2.31	0.46
1:N:402:TYR:CE1	1:N:410:PRO:HD3	2.51	0.46
1:N:1338:GLU:N	1:N:1338:GLU:OE1	2.49	0.46
1:O:672:TRP:CG	1:O:703:CYS:HG	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1171:ALA:HA	1:O:1177:ASN:HD22	1.80	0.46
1:P:148:ALA:HA	1:P:1107:GLY:HA3	1.97	0.46
1:P:562:ALA:HB2	1:P:1050:PHE:HE1	1.81	0.46
2:Y:93:ARG:NH1	2:Y:95:THR:HG22	2.31	0.46
1:R:192:THR:OG1	1:R:1116:ARG:NH1	2.47	0.46
1:R:532:PRO:HD2	1:R:533:HIS:ND1	2.30	0.46
1:S:996:THR:HG22	1:S:999:ARG:NH1	2.30	0.46
1:S:1008:PRO:O	1:S:1009:ILE:HD13	2.16	0.46
2:c:26:ALA:HB2	2:c:68:ALA:HB1	1.97	0.46
1:U:115:MET:HE1	1:U:127:PRO:HD3	1.97	0.46
1:U:426:PHE:H	1:U:1211:VAL:HG13	1.81	0.46
1:B:16:SER:OG	1:B:17:ASP:N	2.49	0.46
1:C:531:MET:N	1:C:532:PRO:HD2	2.31	0.46
1:C:650:ILE:HD11	1:C:657:PHE:HA	1.97	0.46
1:C:796:ARG:HH21	1:C:800:VAL:HG21	1.79	0.46
1:E:799:ASN:OD1	1:E:799:ASN:N	2.46	0.46
2:J:17:THR:HA	2:J:56:ILE:HG21	1.98	0.46
1:F:514:ASP:O	1:F:518:VAL:HG22	2.14	0.46
1:F:653:ASN:OD1	1:F:654:GLU:N	2.49	0.46
1:F:757:ASP:HA	1:F:760:ILE:HG22	1.97	0.46
1:F:846:CYS:HB3	1:F:988:HIS:CD2	2.51	0.46
1:F:927:ILE:HG21	1:F:953:TYR:CE2	2.51	0.46
1:G:882:HIS:CD2	1:G:883:PRO:HD2	2.51	0.46
3:e:233:THR:O	3:e:237:ARG:HG2	2.16	0.46
3:e:318:LEU:HD21	3:e:442:THR:HG21	1.98	0.46
4:o:116:PRO:CB	4:o:117:PRO:CD	2.93	0.46
4:p:222:LEU:O	4:p:225:THR:OG1	2.31	0.46
4:l:52:ILE:HG13	4:l:53:ASN:N	2.25	0.46
3:i:233:THR:O	3:i:237:ARG:HG2	2.16	0.46
4:s:212:ILE:O	4:s:213:ASN:ND2	2.48	0.46
1:z:1217:TYR:HA	1:z:1233:TYR:CE2	2.51	0.46
1:A:1073:ARG:HH21	1:A:1141:MET:HB3	1.80	0.46
1:M:214:ASN:O	1:M:217:GLN:HG2	2.16	0.46
2:V:10:VAL:HG13	2:V:36:LEU:HD22	1.97	0.46
1:N:136:ILE:HG22	1:N:1119:VAL:HB	1.98	0.46
1:P:1134:LEU:HD23	1:P:1391:CYS:HB2	1.97	0.46
2:Y:13:PRO:HD2	2:Y:15:ASN:ND2	2.31	0.46
1:Q:642:ILE:HD12	1:Q:645:MET:HB2	1.98	0.46
2:Z:12:ASP:HB2	2:Z:15:ASN:OD1	2.16	0.46
1:T:389:ASP:N	1:T:389:ASP:OD1	2.47	0.46
1:T:1176:LEU:HD11	1:T:1288:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:276:THR:HG22	1:U:1087:ARG:HH21	1.80	0.46
1:U:754:TRP:HA	1:U:954:HIS:HD2	1.77	0.46
1:U:1209:MET:HA	1:U:1262:ASN:ND2	2.31	0.46
1:B:743:LEU:HD13	1:B:831:ILE:HG12	1.98	0.46
1:C:754:TRP:CE3	1:C:954:HIS:HD2	2.32	0.46
1:C:852:TYR:HB2	1:C:922:GLU:O	2.15	0.46
1:E:67:ASP:OD1	1:F:103:ARG:NH2	2.48	0.46
1:E:211:SER:OG	1:E:212:PRO:HD3	2.16	0.46
1:F:418:THR:HG22	1:F:1074:GLN:HB2	1.98	0.46
2:K:8:ARG:HG3	2:K:9:VAL:H	1.80	0.46
1:G:569:PRO:HB2	1:G:572:VAL:HG21	1.98	0.46
1:G:753:LEU:HD21	1:G:758:ALA:HB3	1.97	0.46
3:e:147:HIS:CD2	3:e:192:ARG:HH11	2.34	0.46
4:j:115:LEU:HD12	4:j:116:PRO:HD2	1.98	0.46
4:p:58:ASP:OD2	4:p:192:GLN:N	2.36	0.46
3:g:147:HIS:CD2	3:g:192:ARG:HH11	2.34	0.46
3:g:159:THR:HB	4:q:266:ARG:NH1	2.31	0.46
3:g:354:ILE:HG23	3:g:358:LEU:HD13	1.98	0.46
3:h:275:THR:O	3:h:275:THR:HG23	2.16	0.46
4:m:32:THR:HB	4:m:69:ARG:HB3	1.98	0.46
1:z:1263:PRO:HG2	1:z:1264:TRP:CE3	2.50	0.46
1:A:762:ARG:CZ	1:A:929:VAL:HB	2.46	0.46
1:A:1079:THR:OG1	1:A:1080:GLU:N	2.49	0.46
1:A:1310:ARG:O	1:A:1313:MET:N	2.45	0.46
1:M:197:LEU:HD21	1:M:290:VAL:HG11	1.97	0.46
1:M:743:LEU:HD23	1:M:831:ILE:HG12	1.98	0.46
1:M:808:ARG:HH12	2:V:85:GLU:H	1.63	0.46
1:O:434:TYR:O	1:O:1377:LEU:N	2.46	0.46
1:O:1251:SER:OG	1:O:1256:THR:O	2.33	0.46
1:P:653:ASN:HD22	1:P:656:ASN:ND2	2.14	0.46
1:P:655:ARG:HH12	1:P:805:ARG:HE	1.64	0.46
1:Q:289:LEU:HD23	1:Q:394:LEU:HD13	1.97	0.46
1:Q:982:LEU:HD23	1:Q:1029:VAL:HG11	1.98	0.46
1:R:98:GLU:C	1:R:100:ALA:H	2.24	0.46
1:R:409:TYR:CE2	1:R:411:LEU:HB2	2.51	0.46
1:R:859:LEU:HG	1:R:913:LEU:HD21	1.98	0.46
2:a:91:TRP:CZ3	2:a:92:LEU:HD23	2.51	0.46
1:S:242:MET:HE1	1:S:1343:PRO:HG2	1.96	0.46
1:S:653:ASN:HD21	1:S:805:ARG:H	1.64	0.46
1:T:1332:ARG:NH2	1:T:1336:SER:O	2.48	0.46
1:U:805:ARG:HD2	1:U:811:THR:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:931:SER:C	1:U:946:ARG:HG3	2.41	0.46
1:U:1095:GLY:HA3	1:U:1115:PRO:HG2	1.97	0.46
1:C:952:LEU:HD11	1:C:977:VAL:HG13	1.97	0.46
2:J:16:PRO:O	2:J:19:PHE:N	2.42	0.46
1:F:442:SER:O	1:G:435:THR:HG22	2.16	0.46
1:F:593:ILE:HD11	1:F:1020:THR:HA	1.98	0.46
2:K:76:THR:HG22	2:K:77:ILE:N	2.31	0.46
1:G:1276:TYR:CD2	1:G:1292:CYS:HB2	2.50	0.46
3:h:205:ARG:HH12	3:h:336:VAL:H	1.64	0.46
4:n:116:PRO:O	4:n:118:VAL:N	2.49	0.46
1:z:418:THR:HG21	1:z:1350:ALA:HA	1.97	0.46
1:M:884:LEU:HD21	1:M:899:HIS:HA	1.98	0.45
1:M:1300:GLU:N	1:M:1300:GLU:OE1	2.49	0.45
2:V:15:ASN:N	2:V:16:PRO:HD2	2.31	0.45
1:N:118:ARG:NH2	1:N:125:ASP:OD1	2.38	0.45
1:N:477:THR:HA	1:N:1148:LEU:HD12	1.97	0.45
1:N:708:ARG:HH22	1:P:677:ARG:HH21	1.63	0.45
1:N:926:ALA:HB1	1:N:1013:LEU:HD21	1.98	0.45
1:O:95:LYS:HE2	1:O:317:TYR:CD2	2.51	0.45
1:O:1372:ALA:O	1:O:1381:LEU:HD22	2.16	0.45
1:P:111:VAL:HG22	1:P:130:ASN:HB2	1.98	0.45
2:Y:84:ALA:O	2:Y:95:THR:OG1	2.30	0.45
1:R:190:ARG:NH1	1:R:401:VAL:HA	2.31	0.45
1:R:195:GLN:O	1:R:199:VAL:HG23	2.15	0.45
1:R:1364:THR:OG1	1:R:1365:ALA:N	2.43	0.45
1:S:844:SER:O	1:S:844:SER:OG	2.31	0.45
1:U:119:ASP:HB3	1:G:195:GLN:HG3	1.98	0.45
1:U:693:TYR:OH	1:B:966:GLU:N	2.46	0.45
1:U:717:LEU:HD21	1:U:835:ILE:HG21	1.98	0.45
1:U:754:TRP:CZ3	1:U:954:HIS:HA	2.51	0.45
1:U:972:THR:OG1	1:U:973:PHE:N	2.48	0.45
2:d:43:GLN:N	2:d:44:PRO:HD3	2.32	0.45
2:d:54:ARG:NH1	2:L:91:TRP:HB2	2.31	0.45
1:B:883:PRO:HG2	1:B:907:GLY:HA2	1.98	0.45
1:C:773:ILE:HG13	1:C:929:VAL:HG12	1.97	0.45
1:E:187:SER:OG	1:F:115:MET:HG3	2.16	0.45
1:E:607:PHE:HE2	1:E:1066:GLY:HA2	1.80	0.45
1:E:1139:THR:OG1	1:E:1200:GLN:O	2.19	0.45
1:F:695:GLY:HA2	1:F:704:ILE:HG12	1.98	0.45
1:F:1225:ARG:HG2	1:F:1296:PHE:CE2	2.50	0.45
1:G:856:TYR:OH	1:G:921:ALA:O	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1355:CYS:SG	1:G:1382:ILE:HB	2.56	0.45
4:j:107:CYS:HB2	4:j:181:ASN:HD21	1.81	0.45
3:h:147:HIS:CD2	3:h:192:ARG:HH11	2.34	0.45
1:z:278:THR:O	1:z:312:ASP:N	2.48	0.45
1:A:431:MET:HE2	1:Q:449:PRO:HB2	1.98	0.45
2:D:91:TRP:O	2:D:92:LEU:HG	2.16	0.45
1:M:1143:ASN:OD1	1:M:1143:ASN:N	2.47	0.45
1:N:770:LEU:HD12	1:N:943:ARG:HH21	1.82	0.45
1:O:584:MET:N	1:O:584:MET:SD	2.90	0.45
2:X:29:PRO:C	2:X:33:ILE:HG12	2.42	0.45
1:Q:18:ARG:C	1:Q:20:ALA:N	2.71	0.45
1:Q:201:LEU:HD23	1:Q:201:LEU:HA	1.79	0.45
1:Q:574:LEU:HB3	1:Q:575:PRO:HD2	1.99	0.45
1:Q:885:HIS:HD2	1:Q:887:HIS:HB2	1.80	0.45
1:T:505:GLY:HA2	1:T:1015:ALA:HB1	1.97	0.45
1:T:574:LEU:HD23	1:T:574:LEU:H	1.82	0.45
1:T:1053:ILE:O	1:T:1056:THR:OG1	2.26	0.45
1:T:1315:ALA:HB2	1:T:1346:LEU:HD22	1.98	0.45
2:c:15:ASN:N	2:c:16:PRO:HD2	2.31	0.45
1:U:70:LEU:HD13	1:B:1093:PHE:CZ	2.51	0.45
1:U:81:ARG:HD2	1:U:84:GLU:CD	2.41	0.45
1:U:89:VAL:HG12	1:U:277:HIS:CE1	2.51	0.45
1:U:203:LYS:NZ	1:U:1120:ASP:OD1	2.49	0.45
1:U:784:LEU:HD23	1:U:802:ILE:HG22	1.98	0.45
1:C:570:GLY:O	1:C:572:VAL:HG13	2.17	0.45
1:E:1023:GLN:N	1:E:1024:PRO:HD2	2.32	0.45
1:F:452:PHE:HB3	1:F:614:GLN:OE1	2.16	0.45
1:F:563:PHE:CE2	1:F:945:MET:HE1	2.51	0.45
2:K:19:PHE:O	2:K:22:GLU:HG3	2.16	0.45
1:G:91:CYS:SG	1:G:1092:TYR:HB2	2.56	0.45
1:G:418:THR:HA	1:G:1074:GLN:HA	1.98	0.45
1:G:1010:PRO:HA	1:G:1011:PRO:HD3	1.82	0.45
4:j:60:LEU:O	4:j:64:GLU:HG2	2.16	0.45
4:j:117:PRO:HA	4:j:138:LEU:HD23	1.98	0.45
3:h:159:THR:HB	4:r:266:ARG:CZ	2.46	0.45
1:A:55:ARG:O	1:A:56:SER:OG	2.31	0.45
1:A:80:VAL:HG12	1:A:400:ARG:HH21	1.81	0.45
1:A:457:ILE:HD11	1:A:1355:CYS:SG	2.56	0.45
1:A:1268:LYS:HG3	1:A:1269:HIS:CD2	2.50	0.45
1:M:655:ARG:NH1	1:M:805:ARG:HD3	2.30	0.45
1:N:347:LEU:O	1:N:348:LEU:HG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:385:VAL:HG22	1:N:386:ILE:N	2.32	0.45
1:N:420:ILE:HD13	1:N:1350:ALA:HB3	1.99	0.45
2:W:54:ARG:NE	2:X:92:LEU:HA	2.31	0.45
2:W:67:ARG:NH1	2:W:67:ARG:HA	2.30	0.45
1:O:163:THR:OG1	1:O:166:ASP:OD1	2.34	0.45
1:O:453:PRO:HA	1:O:454:PRO:HD3	1.86	0.45
1:Q:34:ASN:OD1	1:Q:34:ASN:N	2.48	0.45
1:R:822:ASP:OD1	1:R:823:ARG:N	2.42	0.45
1:S:1374:GLU:HG2	1:S:1383:ARG:NH2	2.32	0.45
1:T:775:VAL:HG22	1:T:927:ILE:HG13	1.98	0.45
1:T:1206:PHE:O	1:T:1276:TYR:OH	2.31	0.45
1:U:241:ASP:OD1	1:U:241:ASP:N	2.49	0.45
1:U:597:ASN:HD21	1:U:1022:ARG:HE	1.64	0.45
1:B:500:ARG:O	1:B:533:HIS:NE2	2.49	0.45
1:B:617:LEU:O	1:C:1033:LYS:NZ	2.33	0.45
1:B:861:ALA:HB1	1:B:893:SER:HA	1.98	0.45
1:C:470:THR:OG1	1:C:471:LEU:N	2.49	0.45
1:C:507:TYR:CD2	1:C:580:PRO:HB3	2.51	0.45
1:C:962:GLN:OE1	1:C:962:GLN:N	2.40	0.45
1:C:1354:LEU:N	1:C:1384:ASP:HB3	2.31	0.45
1:F:195:GLN:NE2	1:G:119:ASP:OD1	2.35	0.45
1:F:475:MET:HE2	1:F:1056:THR:HA	1.98	0.45
1:F:523:PHE:O	1:F:523:PHE:CG	2.69	0.45
1:F:751:PRO:HG3	1:F:983:PHE:HE2	1.81	0.45
1:F:922:GLU:HG3	1:F:923:ARG:H	1.82	0.45
1:G:488:ALA:O	1:G:492:ALA:N	2.50	0.45
1:G:664:LEU:HD23	1:G:680:PHE:CZ	2.51	0.45
1:G:939:THR:H	1:G:942:THR:CG2	2.27	0.45
4:j:34:SER:HA	4:j:69:ARG:HG2	1.98	0.45
4:o:159:ARG:O	4:o:192:GLN:NE2	2.49	0.45
4:p:249:THR:O	4:p:253:ILE:N	2.30	0.45
4:q:204:LEU:HA	4:q:207:ASN:HD22	1.82	0.45
4:q:248:GLU:O	4:q:252:LEU:N	2.45	0.45
4:n:214:GLU:HG3	4:s:245:CYS:HB3	1.99	0.45
1:z:243:PHE:CZ	1:z:1134:LEU:HD13	2.51	0.45
1:z:1090:GLU:OE2	1:z:1118:HIS:HB2	2.16	0.45
1:A:1278:GLY:HA3	1:A:1293:PHE:HE1	1.82	0.45
1:M:65:GLN:OE1	3:f:290:THR:HB	2.17	0.45
1:N:669:ARG:HG2	1:N:700:PRO:HD3	1.98	0.45
1:P:158:THR:OG1	1:P:159:TYR:N	2.49	0.45
1:P:882:HIS:CD2	1:P:884:LEU:HB2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:1264:TRP:O	1:P:1270:SER:OG	2.35	0.45
1:R:1158:LEU:HD12	1:R:1158:LEU:HA	1.81	0.45
1:R:1281:ASN:O	1:R:1281:ASN:ND2	2.49	0.45
1:S:1180:GLU:HB3	1:S:1181:PRO:HD3	1.99	0.45
1:U:1328:TYR:HB2	1:U:1330:PHE:CE1	2.51	0.45
2:d:14:SER:OG	2:d:53:ALA:HB1	2.16	0.45
1:E:411:LEU:HA	1:E:411:LEU:HD23	1.67	0.45
1:E:986:PRO:HA	1:E:989:LEU:HD23	1.96	0.45
1:F:772:ALA:O	1:F:773:ILE:HD13	2.15	0.45
2:K:96:VAL:HG11	1:G:897:TYR:CE1	2.51	0.45
3:g:275:THR:HG23	3:g:275:THR:O	2.16	0.45
4:l:13:GLY:O	4:l:14:GLU:HG2	2.15	0.45
4:q:81:LYS:HB2	4:q:81:LYS:HE3	1.69	0.45
4:r:59:THR:HG21	4:r:189:THR:HB	1.99	0.45
4:r:225:THR:HA	4:r:228:VAL:HG22	1.99	0.45
4:s:106:LEU:HB2	4:s:305:VAL:HB	1.98	0.45
1:A:145:PHE:HD2	1:A:184:VAL:HG21	1.82	0.45
1:A:1217:TYR:CE2	1:A:1222:CYS:HB2	2.51	0.45
1:M:163:THR:OG1	1:M:164:GLU:N	2.48	0.45
1:M:1092:TYR:OH	1:M:1116:ARG:HD3	2.15	0.45
1:N:719:GLN:NE2	1:N:722:THR:OG1	2.50	0.45
1:N:753:LEU:HD23	1:N:753:LEU:HA	1.80	0.45
1:N:775:VAL:HG21	1:N:801:LEU:HD21	1.99	0.45
1:N:882:HIS:HD2	1:N:884:LEU:H	1.64	0.45
1:N:997:ASN:O	1:N:1001:VAL:HG13	2.17	0.45
1:P:555:LEU:HD11	1:P:1263:PRO:HB3	1.99	0.45
1:Q:469:LEU:HD13	1:Q:1143:ASN:HB2	1.99	0.45
1:Q:510:GLU:OE1	1:Q:774:ARG:NH2	2.49	0.45
1:Q:1023:GLN:N	1:Q:1024:PRO:HD2	2.32	0.45
1:Q:1146:GLN:HG2	1:Q:1147:ASN:H	1.82	0.45
1:R:531:MET:N	1:R:532:PRO:HD3	2.31	0.45
1:R:670:GLY:O	1:R:674:GLN:HB2	2.16	0.45
1:S:66:PHE:CE1	1:T:102:VAL:HG12	2.52	0.45
1:S:445:SER:OG	1:S:446:GLU:N	2.49	0.45
1:S:911:LEU:O	1:S:914:GLN:HG2	2.17	0.45
2:c:69:ARG:HA	2:c:72:HIS:HD2	1.81	0.45
1:U:204:ALA:HB1	1:U:1129:CYS:N	2.32	0.45
1:U:715:ARG:NE	1:B:637:ARG:HH12	2.15	0.45
1:U:1199:GLY:HA2	1:B:225:VAL:HG23	1.98	0.45
2:d:28:THR:HG22	2:d:29:PRO:HD3	1.98	0.45
1:B:243:PHE:O	1:B:247:ARG:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:826:GLY:C	1:C:830:LYS:HZ3	2.24	0.45
1:E:157:ASN:HD21	1:E:159:TYR:HE1	1.64	0.45
1:E:1051:THR:O	1:E:1054:SER:N	2.48	0.45
1:G:161:ASP:OD1	1:G:161:ASP:N	2.47	0.45
1:G:873:ALA:HB2	2:L:105:ARG:NH2	2.30	0.45
2:L:30:VAL:HG12	2:L:34:ARG:HH22	1.81	0.45
3:e:204:CYS:CB	3:e:235:LEU:HD23	2.40	0.45
4:j:144:LEU:HA	4:j:147:GLU:OE1	2.17	0.45
4:l:59:THR:OG1	4:l:118:VAL:HG12	2.17	0.45
4:s:64:GLU:OE1	4:s:68:MET:HE3	2.17	0.45
1:M:65:GLN:OE1	1:O:103:ARG:HD3	2.17	0.45
1:M:279:ASN:OD1	1:M:282:GLY:N	2.49	0.45
1:N:643:PHE:O	1:N:647:GLU:HG2	2.16	0.45
1:O:456:GLY:HA2	1:O:470:THR:HA	1.98	0.45
1:O:1016:ASN:O	1:O:1019:ALA:N	2.48	0.45
1:O:1321:GLN:NE2	1:O:1342:ASP:OD2	2.46	0.45
1:Q:507:TYR:CE2	1:Q:580:PRO:HB3	2.51	0.45
1:R:1264:TRP:O	1:R:1270:SER:OG	2.35	0.45
2:a:49:ASP:OD2	2:a:51:ALA:HB3	2.16	0.45
1:S:217:GLN:HG2	1:S:218:PRO:HD3	1.97	0.45
1:S:617:LEU:HA	1:S:617:LEU:HD12	1.72	0.45
1:S:796:ARG:HG3	1:S:922:GLU:OE2	2.16	0.45
1:S:1076:ARG:CZ	1:S:1324:THR:HG22	2.46	0.45
1:U:713:HIS:HE2	1:U:1040:THR:HG21	1.82	0.45
1:U:801:LEU:HD23	1:U:802:ILE:N	2.30	0.45
1:B:463:ASP:OD2	1:B:1198:ARG:NH1	2.49	0.45
1:C:244:PHE:HB2	1:C:258:TYR:CE2	2.52	0.45
1:E:429:ASN:HB3	1:E:606:SER:HB3	1.97	0.45
1:E:778:ARG:NE	1:E:798:ASP:HA	2.30	0.45
1:F:574:LEU:HD22	1:F:575:PRO:HD2	1.98	0.45
1:F:594:ILE:HG12	1:F:597:ASN:ND2	2.31	0.45
1:F:847:THR:HG22	1:F:957:ILE:HG12	1.98	0.45
1:G:194:ASP:OD1	1:G:402:TYR:OH	2.35	0.45
1:G:1003:ALA:O	1:G:1006:VAL:O	2.34	0.45
1:G:1301:VAL:HA	1:G:1304:ASN:HB3	1.98	0.45
1:G:1356:SER:HG	1:G:1381:LEU:HG	1.82	0.45
3:g:233:THR:O	3:g:237:ARG:HG2	2.16	0.45
4:l:33:PHE:CE2	4:l:45:ILE:HD11	2.52	0.45
4:q:114:LEU:HD23	4:q:114:LEU:H	1.80	0.45
4:m:275:SER:OG	4:m:276:SER:N	2.50	0.45
1:z:89:VAL:HG13	1:z:1087:ARG:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:683:ASN:HD21	1:A:754:TRP:NE1	2.15	0.45
1:A:892:ASN:OD1	2:Z:93:ARG:HD3	2.16	0.45
1:O:82:PHE:N	1:O:189:GLU:OE1	2.42	0.45
1:P:201:LEU:HD23	1:P:201:LEU:HA	1.70	0.45
1:R:136:ILE:HD12	1:R:1117:ALA:HB1	1.98	0.45
1:R:530:MET:C	1:R:532:PRO:HD3	2.42	0.45
1:T:520:MET:HE2	1:T:992:LEU:HD22	1.98	0.45
1:T:1252:ASP:OD1	1:T:1253:VAL:N	2.49	0.45
1:T:1258:ARG:NH1	1:T:1261:LEU:HD12	2.31	0.45
1:U:232:SER:OG	1:G:462:LYS:NZ	2.34	0.45
1:U:856:TYR:HA	1:U:859:LEU:HB3	1.99	0.45
1:U:1060:ARG:NH1	1:U:1169:ILE:HD13	2.32	0.45
1:U:1364:THR:HG21	1:U:1369:GLU:OE1	2.17	0.45
1:C:734:GLU:OE1	1:C:734:GLU:N	2.50	0.45
1:C:764:GLU:HA	1:C:767:ARG:CZ	2.46	0.45
1:C:939:THR:H	1:C:942:THR:CG2	2.27	0.45
1:E:1194:ALA:O	1:F:1234:MET:HG3	2.16	0.45
2:J:12:ASP:OD1	2:J:12:ASP:N	2.49	0.45
1:F:83:LEU:HD21	1:F:317:TYR:CE2	2.51	0.45
1:F:295:LEU:HA	1:F:298:GLN:HB3	1.98	0.45
1:F:696:ASN:OD1	1:G:638:ALA:HB1	2.17	0.45
1:F:1170:THR:O	1:F:1177:ASN:ND2	2.50	0.45
1:G:297:ARG:HG3	1:G:298:GLN:N	2.31	0.45
1:G:817:ILE:HD12	1:G:817:ILE:HA	1.84	0.45
1:G:1268:LYS:HE2	1:G:1269:HIS:CE1	2.52	0.45
2:L:24:ILE:HG22	2:L:25:ALA:H	1.81	0.45
4:o:111:TYR:CZ	4:o:295:ARG:HD3	2.52	0.45
3:g:268:GLN:HB2	3:g:271:LEU:CD1	2.47	0.45
4:q:244:ASN:ND2	4:q:247:ARG:H	2.14	0.45
4:r:126:ARG:HG2	4:r:133:GLU:CD	2.42	0.45
3:i:442:THR:HG22	3:i:444:PRO:HD3	1.99	0.45
1:z:1225:ARG:HH12	1:z:1268:LYS:HA	1.82	0.45
1:z:1273:ASP:O	1:z:1277:ASN:HB2	2.16	0.45
1:A:205:PRO:HD2	1:A:1127:ALA:O	2.17	0.45
1:A:1140:ASP:OD1	1:A:1140:ASP:N	2.47	0.45
1:M:752:ILE:HD13	1:M:752:ILE:HA	1.81	0.45
1:M:764:GLU:OE2	1:M:823:ARG:NH2	2.50	0.45
2:W:28:THR:N	2:W:29:PRO:HD2	2.32	0.45
1:O:1229:SER:HB2	1:O:1245:MET:HG2	1.98	0.45
1:P:291:THR:HA	1:P:411:LEU:HD13	1.99	0.45
1:P:476:GLY:O	1:P:1148:LEU:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:95:LYS:HD3	1:R:95:LYS:HA	1.82	0.45
1:R:1225:ARG:HG3	1:R:1296:PHE:CE1	2.52	0.45
1:U:192:THR:HG22	1:U:1116:ARG:NH1	2.29	0.45
1:U:915:GLU:OE1	1:U:915:GLU:N	2.49	0.45
1:U:1100:HIS:CE1	1:U:1111:THR:HB	2.52	0.45
1:U:1346:LEU:O	1:U:1348:GLN:NE2	2.48	0.45
1:B:118:ARG:NH2	1:B:122:HIS:HB3	2.31	0.45
1:B:247:ARG:NH2	1:B:1387:PRO:O	2.49	0.45
1:B:507:TYR:O	1:B:1015:ALA:HB2	2.17	0.45
1:C:533:HIS:HB2	1:C:534:HIS:CE1	2.52	0.45
1:F:398:GLU:OE1	1:F:398:GLU:N	2.50	0.45
1:F:453:PRO:HA	1:F:454:PRO:HD3	1.91	0.45
1:F:1227:ARG:HG2	1:F:1252:ASP:OD1	2.17	0.45
1:F:1376:HIS:O	1:F:1379:GLN:HG2	2.17	0.45
1:G:742:ILE:HG23	1:G:743:LEU:HG	1.99	0.45
3:f:205:ARG:HH12	3:f:336:VAL:H	1.64	0.45
4:r:270:ILE:O	4:r:274:ILE:HG12	2.17	0.45
4:n:146:ARG:NH2	4:s:275:SER:O	2.48	0.45
4:n:286:ASP:N	4:n:286:ASP:OD1	2.48	0.45
1:A:900:ASN:O	1:Q:696:ASN:ND2	2.49	0.45
1:A:1320:SER:O	1:A:1332:ARG:HD2	2.17	0.45
2:D:71:ASN:OD1	2:D:72:HIS:N	2.50	0.45
1:N:58:ASP:OD1	1:N:59:ASN:N	2.50	0.45
1:N:184:VAL:O	1:N:187:SER:HB3	2.17	0.45
2:W:82:MET:HG3	2:W:100:ARG:HH21	1.80	0.45
1:O:420:ILE:HA	1:O:1071:VAL:O	2.17	0.45
1:O:1034:SER:HB2	1:O:1039:LEU:HB2	1.99	0.45
1:O:1344:CYS:HB2	1:O:1349:GLU:O	2.17	0.45
1:P:30:ILE:HG13	1:P:31:PRO:HD2	1.99	0.45
1:P:67:ASP:OD1	1:Q:103:ARG:HB3	2.17	0.45
1:P:1362:LEU:HD23	1:P:1381:LEU:HD11	1.98	0.45
1:Q:1159:HIS:O	1:Q:1162:VAL:HG22	2.17	0.45
1:R:745:ASP:OD1	1:R:747:THR:N	2.49	0.45
2:b:89:MET:HE2	2:b:89:MET:HB3	1.92	0.45
1:T:688:MET:HG2	1:T:825:TRP:HZ3	1.80	0.45
1:T:862:VAL:HG11	1:T:910:LEU:HG	1.97	0.45
1:T:1013:LEU:HD23	1:T:1013:LEU:HA	1.86	0.45
1:T:1193:SER:OG	1:T:1194:ALA:N	2.49	0.45
1:U:251:GLU:O	1:U:255:ILE:HG13	2.17	0.45
1:U:305:GLN:H	1:U:305:GLN:CD	2.25	0.45
1:B:1248:HIS:CE1	1:B:1267:GLN:HG2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1382:ILE:HD13	1:B:1382:ILE:HA	1.82	0.45
1:C:737:GLU:OE2	1:C:737:GLU:N	2.40	0.45
2:J:51:ALA:O	2:J:55:SER:HB3	2.17	0.45
1:F:167:SER:O	1:F:171:ILE:HG12	2.17	0.45
1:F:176:GLN:O	1:F:180:ASN:ND2	2.49	0.45
1:G:294:THR:HG23	1:G:295:LEU:HD13	1.99	0.45
1:G:961:TYR:HB2	1:G:988:HIS:NE2	2.32	0.45
3:e:445:SER:OG	3:e:446:GLU:N	2.49	0.45
4:o:15:LEU:HD13	4:o:127:LEU:HG	1.98	0.45
3:i:275:THR:O	3:i:275:THR:HG23	2.16	0.45
1:z:1109:ASN:OD1	1:z:1110:PHE:N	2.50	0.45
1:M:930:SER:HB3	1:M:946:ARG:HH21	1.82	0.45
1:N:102:VAL:O	1:N:138:LYS:NZ	2.31	0.45
1:N:115:MET:HG3	1:O:187:SER:HB2	1.98	0.45
1:N:756:CYS:O	1:N:760:ILE:HG13	2.17	0.45
1:O:421:MET:HE3	1:O:421:MET:HB2	1.85	0.45
1:O:515:THR:HG21	1:O:924:THR:HG23	1.99	0.45
1:P:774:ARG:HE	1:P:774:ARG:HB2	1.67	0.45
1:Q:927:ILE:HD11	1:Q:953:TYR:HD1	1.82	0.45
1:Q:961:TYR:HB2	1:Q:988:HIS:CE1	2.52	0.45
1:Q:1358:ASP:OD1	1:Q:1359:ALA:N	2.49	0.45
1:R:908:ASP:OD1	1:R:908:ASP:N	2.50	0.45
1:R:914:GLN:CD	2:a:65:ALA:HB1	2.42	0.45
1:R:997:ASN:HA	1:R:1000:ARG:HG2	1.98	0.45
1:R:1158:LEU:HB3	1:R:1159:HIS:CD2	2.52	0.45
1:S:289:LEU:HD13	1:S:1084:TYR:HB2	1.99	0.45
1:S:701:GLU:O	1:S:705:ASN:ND2	2.50	0.45
1:S:1129:CYS:SG	1:S:1130:ALA:N	2.90	0.45
1:T:76:THR:OG1	1:T:77:LEU:N	2.50	0.45
1:T:1319:ALA:HA	1:T:1339:MET:HG2	1.98	0.45
1:U:190:ARG:NH1	1:U:400:ARG:O	2.49	0.45
1:U:402:TYR:CZ	1:U:410:PRO:HD2	2.52	0.45
1:U:637:ARG:CZ	1:G:715:ARG:HH11	2.29	0.45
1:U:694:LEU:HB3	1:U:699:LEU:HD23	1.99	0.45
1:U:836:VAL:O	1:U:840:PHE:HD1	2.00	0.45
1:U:1313:MET:HA	1:U:1316:LYS:HE3	1.98	0.45
1:B:704:ILE:HA	1:B:707:TYR:HB2	1.99	0.45
1:C:903:LEU:HD23	1:C:903:LEU:HA	1.80	0.45
1:C:1150:PHE:CE1	1:C:1178:PRO:HD3	2.52	0.45
1:C:1225:ARG:NH1	1:C:1227:ARG:O	2.50	0.45
2:I:75:ASN:OD1	2:I:75:ASN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:483:LEU:HD12	1:E:1271:TYR:CE1	2.52	0.45
2:J:15:ASN:N	2:J:16:PRO:HD2	2.32	0.45
2:J:29:PRO:O	2:J:33:ILE:HG13	2.16	0.45
1:F:181:LEU:HA	1:F:184:VAL:HG12	1.99	0.45
1:F:409:TYR:CE2	1:F:411:LEU:HB2	2.52	0.45
1:F:685:HIS:HA	1:F:825:TRP:HH2	1.80	0.45
1:G:692:THR:HG23	1:G:693:TYR:CD1	2.52	0.45
4:j:124:SER:OG	4:j:125:ILE:N	2.49	0.45
4:j:179:CYS:HA	4:j:183:ARG:O	2.17	0.45
4:o:159:ARG:HD2	4:o:192:GLN:HB3	1.97	0.45
3:g:441:GLY:C	3:g:442:THR:HG23	2.42	0.45
4:m:149:ILE:HG21	4:m:288:LEU:HD23	1.99	0.45
3:i:318:LEU:HD21	4:s:89:VAL:HG23	1.99	0.45
4:n:27:GLU:OE2	4:n:310:ARG:NH2	2.50	0.45
1:z:96:PHE:HD2	1:z:99:LEU:HB2	1.82	0.45
1:A:503:TYR:CE2	1:A:569:PRO:HB3	2.52	0.44
1:A:773:ILE:HG23	1:A:779:ASN:O	2.17	0.44
1:A:803:HIS:CE1	1:A:817:ILE:HD12	2.51	0.44
1:M:304:LEU:HD13	1:M:385:VAL:HG11	1.99	0.44
1:M:924:THR:OG1	1:M:953:TYR:O	2.32	0.44
1:P:490:LEU:O	1:P:494:ARG:HG2	2.17	0.44
1:Q:882:HIS:CD2	1:Q:884:LEU:HB3	2.53	0.44
1:R:1030:THR:HB	1:R:1031:HIS:CD2	2.52	0.44
2:a:39:SER:OG	2:a:40:GLY:N	2.50	0.44
2:a:92:LEU:N	1:S:854:ARG:HH12	2.15	0.44
1:S:561:PRO:HB3	1:S:1264:TRP:CE2	2.51	0.44
2:b:106:ILE:HG12	1:T:887:HIS:CE1	2.51	0.44
1:T:507:TYR:HE1	1:T:572:VAL:HG11	1.83	0.44
1:T:520:MET:HG3	1:T:992:LEU:HD13	1.99	0.44
1:U:274:ARG:HG2	1:U:275:ILE:H	1.81	0.44
1:C:529:ASP:O	1:C:533:HIS:HE1	2.00	0.44
1:C:592:ARG:HB3	1:C:597:ASN:HB2	1.98	0.44
1:C:655:ARG:HE	2:I:82:MET:HE2	1.82	0.44
1:E:108:GLN:HB3	1:E:133:VAL:HG22	1.99	0.44
1:E:489:THR:O	1:E:493:LEU:HB2	2.17	0.44
1:E:1028:HIS:O	1:E:1032:SER:OG	2.23	0.44
1:F:77:LEU:HD23	1:F:77:LEU:HA	1.80	0.44
1:G:184:VAL:O	1:G:187:SER:OG	2.24	0.44
1:G:1120:ASP:C	1:G:1121:LEU:HD22	2.43	0.44
1:G:1223:ASN:ND2	1:G:1348:GLN:O	2.46	0.44
3:e:275:THR:O	3:e:275:THR:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:f:127:LEU:CD1	3:f:191:LEU:HG	2.46	0.44
3:f:331:ARG:CG	3:f:332:GLN:OE1	2.63	0.44
4:k:49:SER:OG	4:k:69:ARG:NH2	2.49	0.44
4:k:293:ILE:O	4:k:294:LEU:HD23	2.17	0.44
4:p:68:MET:HE2	4:p:68:MET:HB2	1.84	0.44
4:q:189:THR:OG1	4:q:190:ASN:N	2.42	0.44
4:q:245:CYS:O	4:q:249:THR:OG1	2.26	0.44
3:h:161:ALA:HB1	4:r:262:GLN:HG2	1.98	0.44
4:m:203:THR:O	4:m:207:ASN:ND2	2.50	0.44
1:z:197:LEU:HD22	1:z:397:LEU:HD21	1.98	0.44
1:z:234:LEU:O	1:z:238:VAL:HG13	2.16	0.44
1:M:1326:THR:HG22	1:M:1328:TYR:H	1.81	0.44
1:N:59:ASN:OD1	1:N:60:SER:N	2.39	0.44
1:O:65:GLN:HG3	4:l:78:ILE:HD12	1.99	0.44
1:O:808:ARG:HH12	2:X:84:ALA:HB3	1.82	0.44
1:P:1091:SER:O	1:P:1118:HIS:HA	2.17	0.44
1:Q:488:ALA:HA	1:Q:491:VAL:HG22	1.99	0.44
1:Q:660:LEU:HD23	1:Q:664:LEU:HG	1.99	0.44
1:R:215:LYS:C	1:R:216:PHE:HD1	2.25	0.44
1:S:214:ASN:O	1:S:217:GLN:HB3	2.17	0.44
1:S:967:THR:OG1	1:S:968:ILE:N	2.50	0.44
1:T:398:GLU:O	1:T:403:GLN:HB2	2.17	0.44
1:U:105:GLY:O	1:U:136:ILE:HG22	2.17	0.44
1:U:778:ARG:HD3	1:U:778:ARG:HA	1.80	0.44
1:U:1013:LEU:HD23	1:U:1013:LEU:HA	1.77	0.44
1:B:822:ASP:OD1	1:B:823:ARG:N	2.45	0.44
1:C:653:ASN:ND2	1:C:804:GLY:HA3	2.33	0.44
1:C:705:ASN:HA	1:C:708:ARG:HG2	1.99	0.44
1:C:774:ARG:HB3	1:C:928:LEU:HB3	1.99	0.44
1:C:968:ILE:HG22	1:C:972:THR:HG21	1.99	0.44
1:E:259:LEU:HD11	1:E:299:LEU:HD11	1.98	0.44
1:E:1205:GLU:OE2	1:E:1276:TYR:OH	2.25	0.44
1:F:199:VAL:HG11	1:F:1118:HIS:NE2	2.32	0.44
1:F:490:LEU:HG	1:F:494:ARG:NH1	2.28	0.44
1:F:591:LEU:HD23	1:F:592:ARG:C	2.42	0.44
1:F:770:LEU:O	1:F:946:ARG:NH2	2.47	0.44
1:G:516:LEU:HD21	1:G:851:ARG:HH11	1.82	0.44
1:G:842:ARG:HA	1:G:842:ARG:HD3	1.79	0.44
2:L:46:HIS:CE1	2:L:50:ILE:HG12	2.53	0.44
3:f:124:GLN:NE2	3:f:125:VAL:O	2.51	0.44
4:l:87:ILE:HA	4:l:315:GLN:NE2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:q:99:GLN:HE21	4:q:308:GLY:HA2	1.83	0.44
4:q:178:ILE:HG12	4:q:185:TYR:O	2.18	0.44
4:q:240:ILE:O	4:q:247:ARG:HD2	2.16	0.44
4:q:248:GLU:HG3	4:q:252:LEU:HD13	1.99	0.44
4:r:147:GLU:O	4:r:151:LYS:HG2	2.18	0.44
3:i:237:ARG:HD3	3:i:237:ARG:HA	1.75	0.44
1:z:1241:ILE:HG22	1:z:1245:MET:HB2	1.98	0.44
1:A:620:HIS:HD2	1:A:713:HIS:HA	1.81	0.44
2:D:36:LEU:HD12	2:D:37:ASN:H	1.83	0.44
1:M:347:LEU:C	1:M:348:LEU:HD23	2.42	0.44
1:N:224:ARG:HH11	1:O:1196:ILE:HD11	1.82	0.44
1:N:619:ARG:HD3	1:N:720:THR:OG1	2.18	0.44
1:N:882:HIS:CG	1:N:883:PRO:HD2	2.52	0.44
2:W:88:PRO:HB3	2:Y:37:ASN:O	2.18	0.44
1:O:812:GLY:H	1:O:815:ILE:HD13	1.82	0.44
1:Q:421:MET:HE3	1:Q:421:MET:HB2	1.79	0.44
1:Q:803:HIS:CE1	1:Q:817:ILE:HD12	2.52	0.44
2:Z:52:ASP:HA	2:Z:55:SER:HB2	1.99	0.44
1:R:523:PHE:CZ	1:R:1010:PRO:HA	2.53	0.44
1:R:651:HIS:O	1:R:651:HIS:ND1	2.51	0.44
1:S:458:PHE:CG	1:S:1359:ALA:HB2	2.53	0.44
1:S:592:ARG:NH1	1:S:598:ILE:HA	2.32	0.44
1:S:838:PRO:HB3	1:S:982:LEU:HD22	1.98	0.44
1:T:235:LYS:NZ	1:T:1233:TYR:OH	2.48	0.44
1:T:1275:LEU:HD22	1:T:1276:TYR:CZ	2.52	0.44
1:U:227:ARG:NH2	1:U:1308:LEU:O	2.49	0.44
1:U:1160:ASP:N	1:U:1160:ASP:OD1	2.50	0.44
1:B:75:ASN:ND2	1:C:111:VAL:HG23	2.32	0.44
1:B:75:ASN:HD21	1:C:111:VAL:HG23	1.82	0.44
1:B:247:ARG:HG2	1:B:248:HIS:CD2	2.53	0.44
1:B:1065:PRO:HG2	1:B:1067:ILE:HG22	1.99	0.44
1:C:623:THR:O	1:C:627:ILE:HG12	2.18	0.44
1:C:672:TRP:HE3	1:C:677:ARG:O	1.99	0.44
1:E:81:ARG:O	1:E:84:GLU:HG2	2.17	0.44
1:E:398:GLU:O	1:E:403:GLN:HB2	2.17	0.44
1:E:417:ILE:HD13	1:E:417:ILE:HA	1.87	0.44
1:E:423:MET:HE2	1:E:423:MET:HB3	1.86	0.44
1:E:1268:LYS:HG2	1:E:1269:HIS:NE2	2.31	0.44
2:J:99:LYS:NZ	1:F:899:HIS:O	2.27	0.44
1:F:684:PHE:CD2	1:F:829:SER:HA	2.52	0.44
1:F:684:PHE:CE2	1:F:828:LEU:HG	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:98:LEU:HD21	2:K:102:PHE:CE2	2.51	0.44
1:G:642:ILE:O	1:G:645:MET:HG2	2.17	0.44
1:G:827:ILE:HD13	1:G:830:LYS:NZ	2.32	0.44
1:G:1034:SER:OG	1:G:1035:ASP:N	2.49	0.44
3:e:121:LEU:HB2	4:j:299:PHE:CE2	2.53	0.44
4:r:53:ASN:N	4:r:53:ASN:OD1	2.50	0.44
3:i:205:ARG:HH12	3:i:336:VAL:H	1.64	0.44
4:n:96:LEU:HD22	4:n:315:GLN:HE21	1.82	0.44
1:z:235:LYS:HD2	1:z:235:LYS:HA	1.76	0.44
1:M:744:THR:HA	1:M:827:ILE:HD12	1.98	0.44
1:N:757:ASP:OD2	1:N:820:HIS:N	2.49	0.44
2:W:87:ASP:HB2	2:W:88:PRO:HD2	1.98	0.44
1:O:331:LEU:HD21	1:R:165:ILE:HG13	2.00	0.44
1:P:285:VAL:HG11	1:P:393:PHE:CE1	2.53	0.44
1:P:421:MET:HE3	1:P:421:MET:HB2	1.92	0.44
1:P:512:THR:OG1	1:P:777:GLY:HA3	2.17	0.44
1:P:850:VAL:HG22	1:P:974:PHE:CE1	2.52	0.44
1:P:939:THR:O	1:P:943:ARG:HG2	2.18	0.44
1:P:1301:VAL:HG12	1:P:1303:THR:H	1.82	0.44
2:Y:93:ARG:HD3	1:Q:892:ASN:HB3	1.98	0.44
1:Q:1084:TYR:OH	1:Q:1086:GLU:OE2	2.23	0.44
2:a:69:ARG:HA	2:a:72:HIS:HD2	1.82	0.44
1:S:136:ILE:HG22	1:S:1119:VAL:HB	1.99	0.44
1:S:852:TYR:HD1	1:S:855:LEU:HD23	1.82	0.44
2:b:92:LEU:HD21	2:c:33:ILE:HD11	1.99	0.44
1:T:863:ILE:HG13	2:c:27:TYR:HB2	1.99	0.44
1:U:865:PRO:CG	1:U:888:GLN:HG2	2.48	0.44
1:U:969:ALA:HB3	1:U:972:THR:HG22	2.00	0.44
1:C:913:LEU:O	1:C:913:LEU:HD23	2.18	0.44
1:C:1373:ASP:O	1:C:1381:LEU:HB3	2.18	0.44
1:E:1258:ARG:HD3	1:E:1260:THR:O	2.16	0.44
1:F:201:LEU:HD11	1:F:411:LEU:HD23	1.99	0.44
1:F:595:ASN:HD21	1:F:1048:PHE:HB2	1.82	0.44
1:G:212:PRO:HG3	1:G:237:ARG:CZ	2.48	0.44
3:g:124:GLN:NE2	3:g:125:VAL:O	2.51	0.44
3:g:205:ARG:HH12	3:g:336:VAL:H	1.64	0.44
3:g:306:ASP:OD1	3:g:306:ASP:N	2.50	0.44
4:q:233:ASP:HB3	4:q:236:VAL:HG22	1.99	0.44
4:r:157:VAL:O	4:r:160:THR:HG23	2.17	0.44
1:z:1039:LEU:HA	1:z:1042:SER:OG	2.16	0.44
1:A:863:ILE:HG23	2:D:27:TYR:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:428:ALA:HB2	1:M:1212:SER:HB2	2.00	0.44
1:M:880:PRO:HA	1:M:885:HIS:CD2	2.52	0.44
1:N:708:ARG:NH2	1:P:677:ARG:HH21	2.15	0.44
1:O:560:ASN:OD1	1:O:561:PRO:HD2	2.17	0.44
1:O:848:MET:HE2	1:O:988:HIS:CD2	2.53	0.44
1:P:50:PHE:CZ	1:P:52:LYS:HB2	2.53	0.44
1:P:231:LEU:HD13	1:P:1232:LEU:HB3	1.99	0.44
1:P:1227:ARG:NH2	1:P:1250:GLN:O	2.50	0.44
1:Q:203:LYS:NZ	1:Q:1120:ASP:OD1	2.46	0.44
1:Q:753:LEU:HD23	1:Q:753:LEU:HA	1.81	0.44
1:R:534:HIS:HB3	1:R:536:HIS:CE1	2.52	0.44
1:R:788:ASP:CG	1:R:789:MET:H	2.25	0.44
1:U:81:ARG:HB2	1:U:84:GLU:HB2	2.00	0.44
1:U:654:GLU:HB3	1:U:689:TYR:OH	2.18	0.44
1:B:1091:SER:N	1:B:1119:VAL:O	2.40	0.44
1:B:1092:TYR:OH	1:B:1116:ARG:HD3	2.17	0.44
1:C:81:ARG:HB3	1:C:84:GLU:HG3	2.00	0.44
1:E:161:ASP:OD1	1:E:162:GLY:N	2.51	0.44
1:E:421:MET:O	1:E:1071:VAL:HG22	2.16	0.44
1:F:93:CYS:HA	1:F:1092:TYR:HB3	1.99	0.44
1:F:685:HIS:CD2	1:F:825:TRP:HZ2	2.36	0.44
1:G:87:LEU:HA	1:G:288:VAL:HG11	2.00	0.44
1:G:683:ASN:OD1	1:G:684:PHE:N	2.49	0.44
1:G:741:ASN:OD1	1:G:742:ILE:N	2.50	0.44
4:o:29:LYS:CD	4:o:136:PHE:CE2	3.00	0.44
4:o:83:LEU:HD23	4:o:83:LEU:HA	1.85	0.44
3:f:268:GLN:HB2	3:f:271:LEU:CD1	2.47	0.44
4:l:87:ILE:HG13	4:l:88:GLY:N	2.31	0.44
4:m:177:VAL:HB	4:m:184:ARG:HH21	1.82	0.44
3:i:180:THR:OG1	3:i:181:ALA:N	2.48	0.44
2:D:12:ASP:N	2:D:12:ASP:OD1	2.50	0.44
1:M:79:PHE:HD1	1:M:186:ASP:OD2	2.00	0.44
1:N:566:PHE:CE2	1:N:1017:HIS:HB3	2.53	0.44
1:N:1255:TYR:HD2	1:N:1258:ARG:HH22	1.63	0.44
1:Q:882:HIS:O	1:Q:888:GLN:NE2	2.51	0.44
1:Q:1241:ILE:HG21	1:Q:1301:VAL:HG21	1.98	0.44
1:R:159:TYR:HE2	3:f:286:ARG:NE	2.16	0.44
1:R:997:ASN:OD1	1:R:997:ASN:N	2.49	0.44
1:R:1333:PRO:HA	1:R:1334:PRO:HD3	1.89	0.44
1:T:1171:ALA:HA	1:T:1177:ASN:OD1	2.18	0.44
1:T:1274:ARG:HA	1:T:1280:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:213:ILE:HD11	1:U:234:LEU:HD21	2.00	0.44
1:B:685:HIS:HA	1:B:825:TRP:HZ2	1.83	0.44
1:C:212:PRO:HG3	1:C:237:ARG:HD2	1.99	0.44
1:C:405:THR:HG21	1:E:116:ILE:HD11	2.00	0.44
1:C:742:ILE:HG22	1:C:1047:TYR:HB3	1.99	0.44
1:E:508:VAL:HG11	1:E:948:TYR:CD2	2.52	0.44
2:J:11:PHE:CD1	2:J:44:PRO:HG2	2.53	0.44
1:F:1197:ALA:C	1:G:228:ALA:HB1	2.42	0.44
1:F:1248:HIS:NE2	1:F:1267:GLN:HG2	2.33	0.44
1:G:525:GLU:OE1	1:G:525:GLU:N	2.51	0.44
1:G:600:VAL:C	1:G:602:LEU:H	2.26	0.44
1:G:679:ALA:O	1:G:707:TYR:OH	2.26	0.44
1:G:855:LEU:HG	1:G:859:LEU:HD21	2.00	0.44
1:G:863:ILE:HG12	1:G:888:GLN:HE21	1.82	0.44
1:G:917:MET:N	1:G:917:MET:SD	2.90	0.44
2:L:76:THR:HG23	2:L:104:PRO:O	2.17	0.44
3:e:121:LEU:HB2	4:j:299:PHE:HE2	1.82	0.44
4:j:111:TYR:HE1	4:j:295:ARG:HB2	1.83	0.44
4:k:223:ILE:HB	4:k:226:LEU:HG	1.99	0.44
4:l:97:PHE:HA	4:l:312:ALA:HA	2.00	0.44
3:h:180:THR:OG1	3:h:181:ALA:N	2.48	0.44
3:i:131:PHE:HD2	3:i:197:SER:HB2	1.83	0.44
1:z:1256:THR:OG1	1:z:1257:ASP:N	2.48	0.44
1:A:328:VAL:O	1:A:332:VAL:HG22	2.17	0.44
1:M:595:ASN:ND2	1:M:611:ARG:HH22	2.15	0.44
1:N:1215:LEU:O	1:N:1218:PHE:N	2.33	0.44
1:N:1326:THR:HG23	1:N:1328:TYR:O	2.18	0.44
2:W:75:ASN:O	2:W:106:ILE:HG12	2.17	0.44
1:P:292:THR:HG23	1:P:295:LEU:H	1.82	0.44
1:P:852:TYR:HD2	1:P:923:ARG:HA	1.83	0.44
1:S:1209:MET:SD	1:S:1213:THR:HG21	2.58	0.44
1:T:642:ILE:HA	1:T:645:MET:HE2	2.00	0.44
1:T:644:TYR:HB3	1:T:974:PHE:HZ	1.83	0.44
1:U:247:ARG:HH22	1:U:1389:ARG:HB3	1.82	0.44
1:U:1326:THR:HG21	1:U:1330:PHE:CG	2.53	0.44
1:B:245:MET:HB2	1:B:1132:ALA:HB1	1.98	0.44
2:H:28:THR:HG22	2:H:29:PRO:HD3	2.00	0.44
2:H:89:MET:HG2	2:I:33:ILE:HB	1.99	0.44
1:C:531:MET:O	1:C:533:HIS:N	2.50	0.44
1:C:801:LEU:HD23	1:C:953:TYR:CE2	2.51	0.44
1:E:109:PHE:HE2	1:E:134:LYS:HE3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1061:THR:HG22	1:F:541:HIS:NE2	2.32	0.44
1:E:1300:GLU:CD	1:E:1300:GLU:H	2.24	0.44
1:G:480:HIS:CD2	1:G:482:SER:H	2.35	0.44
3:e:475:THR:CA	4:j:111:TYR:HE2	2.30	0.44
3:i:124:GLN:NE2	3:i:125:VAL:O	2.51	0.44
4:n:202:ARG:O	4:n:205:VAL:HG22	2.18	0.44
4:s:132:LEU:HD13	4:s:132:LEU:HA	1.87	0.44
4:s:220:LEU:HD23	4:s:223:ILE:HD11	2.00	0.44
1:z:288:VAL:HG22	1:z:393:PHE:HB2	1.99	0.44
1:M:622:MET:HE2	1:M:713:HIS:CE1	2.53	0.44
1:M:626:THR:HG22	1:M:706:ILE:HG12	2.00	0.44
2:V:98:LEU:CD1	1:O:896:VAL:HG23	2.48	0.44
1:N:434:TYR:O	1:N:1377:LEU:N	2.47	0.44
1:N:807:VAL:HG21	1:P:966:GLU:HG3	2.00	0.44
1:O:524:MET:O	1:O:999:ARG:NE	2.50	0.44
1:O:864:VAL:HG11	1:O:911:LEU:HD11	2.00	0.44
1:P:219:GLU:O	1:P:221:HIS:N	2.44	0.44
1:P:251:GLU:HG3	1:P:254:LEU:HD12	1.98	0.44
1:P:273:SER:O	1:P:273:SER:OG	2.31	0.44
1:P:285:VAL:HG12	1:P:391:LEU:HD23	1.99	0.44
1:Q:36:LEU:HD12	1:Q:36:LEU:HA	1.81	0.44
1:Q:255:ILE:HB	1:Q:303:ILE:HD12	2.00	0.44
1:Q:1026:ALA:HA	1:Q:1029:VAL:HG12	2.00	0.44
1:R:1278:GLY:H	1:R:1297:THR:HG22	1.83	0.44
1:S:507:TYR:OH	1:S:577:PRO:O	2.21	0.44
1:S:958:MET:HE2	1:S:961:TYR:HA	2.00	0.44
1:S:972:THR:HG23	1:S:973:PHE:CD2	2.52	0.44
1:S:1316:LYS:HG3	1:S:1317:ALA:N	2.33	0.44
1:T:666:GLN:HE22	1:T:906:ASP:CG	2.25	0.44
1:U:964:TYR:HE2	1:G:715:ARG:HH22	1.65	0.44
1:U:1091:SER:O	1:U:1118:HIS:HA	2.18	0.44
1:B:658:CYS:HA	1:B:661:LEU:HD21	2.00	0.44
1:B:1035:ASP:OD1	1:B:1038:THR:OG1	2.31	0.44
2:H:42:LEU:H	2:H:42:LEU:HD23	1.83	0.44
1:C:157:ASN:O	1:C:160:VAL:HG22	2.18	0.44
1:C:1157:MET:HB2	1:C:1163:THR:HG22	2.00	0.44
1:C:1314:GLU:O	1:C:1314:GLU:HG2	2.18	0.44
1:E:807:VAL:HG12	2:J:83:PHE:CE2	2.52	0.44
1:F:320:MET:SD	1:F:338:ARG:NH1	2.91	0.44
1:F:520:MET:HB3	1:F:992:LEU:HD11	2.00	0.44
1:F:1332:ARG:NH2	1:F:1333:PRO:O	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1209:MET:HE2	1:G:1209:MET:HB3	1.88	0.44
3:e:205:ARG:HH12	3:e:336:VAL:H	1.64	0.44
4:j:110:ASP:OD2	4:j:180:TYR:OH	2.35	0.44
4:j:178:ILE:HG12	4:j:185:TYR:O	2.18	0.44
4:o:29:LYS:HD2	4:o:136:PHE:CD2	2.48	0.44
4:r:105:ASP:OD1	4:r:306:HIS:HA	2.18	0.44
4:n:29:LYS:HD3	4:n:136:PHE:CE2	2.52	0.44
4:n:205:VAL:O	4:n:209:MET:HG2	2.17	0.44
1:A:636:ASP:HA	1:Q:708:ARG:HH21	1.83	0.44
1:A:1258:ARG:HD3	1:A:1260:THR:O	2.17	0.44
1:A:1294:LYS:NZ	1:A:1344:CYS:SG	2.91	0.44
1:N:479:CYS:SG	1:N:1055:LEU:HB2	2.58	0.44
1:N:564:ASP:HB2	1:N:592:ARG:HE	1.82	0.44
1:N:595:ASN:HD21	1:N:611:ARG:NH1	2.15	0.44
1:O:642:ILE:HG12	1:O:897:TYR:HB3	1.98	0.44
1:O:1217:TYR:CE2	1:O:1222:CYS:HB2	2.52	0.44
1:P:1326:THR:HG21	1:P:1330:PHE:CD2	2.53	0.44
1:R:402:TYR:CZ	1:R:410:PRO:HD3	2.53	0.44
1:R:1104:ALA:C	1:R:1106:GLY:H	2.25	0.44
2:b:29:PRO:O	2:b:33:ILE:HG12	2.17	0.44
1:T:896:VAL:HA	1:T:899:HIS:HB3	2.00	0.44
1:U:1175:ARG:HD2	1:B:1251:SER:HB3	1.99	0.44
1:B:266:THR:OG1	1:B:267:GLN:N	2.51	0.44
1:B:447:GLN:OE1	1:B:447:GLN:N	2.51	0.44
1:C:1071:VAL:HG12	1:C:1206:PHE:CD1	2.53	0.44
1:C:1114:GLN:OE1	1:C:1116:ARG:NH2	2.48	0.44
2:I:8:ARG:N	2:I:32:LEU:HD11	2.32	0.44
1:E:241:ASP:OD2	1:E:258:TYR:OH	2.29	0.44
1:E:421:MET:HE1	1:E:459:PHE:CE1	2.53	0.44
1:E:908:ASP:OD1	2:J:104:PRO:HG2	2.18	0.44
1:E:1148:LEU:HD23	1:E:1148:LEU:HA	1.77	0.44
1:G:242:MET:O	1:G:1131:THR:OG1	2.36	0.44
1:G:514:ASP:OD1	1:G:515:THR:N	2.51	0.44
1:G:751:PRO:HD3	1:G:834:TYR:CZ	2.53	0.44
1:G:1115:PRO:C	1:G:1116:ARG:HD2	2.43	0.44
4:p:93:THR:HG21	4:p:96:LEU:HD22	2.00	0.44
4:p:245:CYS:O	4:p:249:THR:HG23	2.18	0.44
3:g:147:HIS:HB2	4:l:181:ASN:HA	1.98	0.44
3:h:354:ILE:CG1	3:h:358:LEU:HD13	2.48	0.44
4:r:11:LEU:HD21	4:r:82:LEU:HD12	2.00	0.44
4:r:216:CYS:O	4:r:220:LEU:HG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:47:LEU:HD12	4:s:50:TYR:HB2	1.98	0.44
1:A:594:ILE:HG12	1:A:597:ASN:ND2	2.33	0.43
1:A:897:TYR:CE1	2:Z:96:VAL:HG11	2.52	0.43
2:D:50:ILE:O	2:D:54:ARG:HG2	2.18	0.43
1:M:48:PHE:CZ	1:S:132:MET:HG2	2.53	0.43
1:M:660:LEU:HB3	1:M:664:LEU:HD23	1.99	0.43
1:M:879:ASP:O	1:M:885:HIS:ND1	2.51	0.43
1:M:1149:PHE:CE2	1:M:1170:THR:HG21	2.53	0.43
1:N:197:LEU:HD22	1:N:410:PRO:HG2	1.99	0.43
1:N:215:LYS:HD3	1:N:215:LYS:HA	1.81	0.43
2:X:91:TRP:C	2:X:93:ARG:H	2.26	0.43
1:P:500:ARG:HA	1:P:500:ARG:HD2	1.85	0.43
1:P:520:MET:HE3	1:P:992:LEU:HG	2.00	0.43
1:P:1303:THR:HG22	1:P:1303:THR:O	2.18	0.43
1:Q:200:LEU:HD23	1:Q:200:LEU:HA	1.83	0.43
1:R:203:LYS:NZ	1:R:1120:ASP:OD2	2.48	0.43
1:R:782:GLN:HB3	1:R:801:LEU:H	1.82	0.43
1:R:1094:VAL:HG22	1:R:1116:ARG:HG2	2.00	0.43
1:R:1363:ARG:NH1	1:S:1374:GLU:OE2	2.50	0.43
1:S:619:ARG:NH2	1:S:723:ASP:OD2	2.42	0.43
1:S:1035:ASP:C	1:S:1037:ASN:H	2.27	0.43
1:T:104:ASP:OD1	1:T:104:ASP:N	2.51	0.43
1:T:419:PHE:CD2	1:T:1353:PRO:HB3	2.53	0.43
1:T:836:VAL:O	1:T:840:PHE:HD2	2.00	0.43
1:B:574:LEU:HG	1:B:575:PRO:HD2	2.00	0.43
1:C:1180:GLU:HB2	1:C:1181:PRO:HD3	1.98	0.43
1:E:962:GLN:HG3	1:E:964:TYR:H	1.83	0.43
1:F:329:THR:OG1	1:F:330:ALA:N	2.51	0.43
1:F:661:LEU:O	1:F:665:THR:HG23	2.18	0.43
1:F:745:ASP:OD2	1:F:747:THR:OG1	2.29	0.43
1:F:1049:LYS:HG3	1:F:1054:SER:HB3	1.99	0.43
1:F:1355:CYS:HB2	1:F:1382:ILE:HD11	2.00	0.43
1:F:1381:LEU:HD23	1:F:1382:ILE:N	2.33	0.43
1:G:418:THR:OG1	1:G:419:PHE:N	2.51	0.43
1:G:591:LEU:O	1:G:1022:ARG:NH2	2.50	0.43
2:L:72:HIS:O	2:L:76:THR:N	2.51	0.43
4:o:123:ASP:OD1	4:o:123:ASP:N	2.51	0.43
3:g:307:VAL:HG21	3:g:350:PHE:CZ	2.48	0.43
3:h:131:PHE:HD2	3:h:197:SER:HB2	1.83	0.43
4:s:258:MET:HE3	4:s:259:PRO:O	2.18	0.43
1:z:108:GLN:HB3	1:z:133:VAL:HG12	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:1295:PHE:CZ	1:z:1348:GLN:HA	2.53	0.43
1:A:515:THR:HA	1:A:518:VAL:HG22	1.99	0.43
1:A:539:ASN:HA	1:A:541:HIS:CE1	2.54	0.43
1:A:995:MET:HE3	1:A:999:ARG:HB2	2.00	0.43
1:A:1240:ASP:OD1	1:A:1240:ASP:N	2.51	0.43
1:M:262:MET:HE2	1:M:1084:TYR:HB2	2.00	0.43
1:N:166:ASP:O	1:N:170:ARG:N	2.39	0.43
1:N:787:VAL:O	1:N:919:ASP:HA	2.17	0.43
1:N:943:ARG:HA	1:N:943:ARG:HD2	1.73	0.43
1:N:1354:LEU:N	1:N:1384:ASP:HB3	2.33	0.43
2:W:8:ARG:N	2:W:36:LEU:HD21	2.32	0.43
1:O:224:ARG:HH12	1:O:1236:ASP:HB3	1.83	0.43
1:O:1303:THR:O	1:O:1307:THR:HG22	2.18	0.43
1:P:685:HIS:CE1	1:P:754:TRP:HD1	2.36	0.43
1:Q:847:THR:OG1	1:Q:977:VAL:O	2.28	0.43
1:S:1089:SER:O	1:S:1089:SER:OG	2.35	0.43
1:S:1176:LEU:HD12	1:S:1176:LEU:HA	1.82	0.43
1:T:223:ASN:O	1:T:224:ARG:HG2	2.18	0.43
1:T:395:GLU:N	1:T:395:GLU:OE1	2.51	0.43
1:T:1023:GLN:N	1:T:1024:PRO:HD2	2.33	0.43
1:T:1056:THR:O	1:T:1060:ARG:HG3	2.18	0.43
1:T:1392:LEU:HD12	1:T:1393:PRO:HD2	1.98	0.43
1:U:588:ASN:OD1	1:U:589:ALA:N	2.49	0.43
1:U:718:ARG:HH12	1:B:1004:LYS:NZ	2.17	0.43
2:d:13:PRO:HG3	2:d:45:GLY:HA2	2.01	0.43
1:B:623:THR:OG1	1:B:626:THR:OG1	2.32	0.43
1:B:789:MET:HE3	1:B:789:MET:HB2	1.88	0.43
1:C:472:ARG:HH12	1:C:1173:GLY:HA3	1.84	0.43
1:E:1129:CYS:SG	1:E:1130:ALA:N	2.90	0.43
1:E:1361:MET:HB3	1:E:1381:LEU:HD12	2.00	0.43
1:F:83:LEU:O	1:F:313:VAL:HG21	2.19	0.43
1:G:254:LEU:H	1:G:254:LEU:HD12	1.82	0.43
2:L:52:ASP:HA	2:L:55:SER:OG	2.18	0.43
4:o:93:THR:HG22	4:o:94:PRO:HD3	2.00	0.43
4:o:109:GLY:H	4:o:296:VAL:HB	1.83	0.43
4:p:146:ARG:HA	4:p:146:ARG:HD3	1.86	0.43
3:g:131:PHE:HD2	3:g:197:SER:HB2	1.83	0.43
3:g:160:GLN:HB3	3:g:163:ARG:NH1	2.33	0.43
4:q:104:VAL:HG22	4:q:105:ASP:H	1.82	0.43
3:h:237:ARG:HA	3:h:237:ARG:HD3	1.75	0.43
4:n:25:LYS:HB2	4:n:25:LYS:HE3	1.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:181:LEU:O	1:z:185:LEU:HG	2.18	0.43
1:A:497:HIS:CD2	1:A:498:LEU:H	2.36	0.43
1:A:605:ILE:HG23	1:A:1028:HIS:ND1	2.33	0.43
1:A:617:LEU:HD12	1:A:617:LEU:HA	1.71	0.43
1:M:803:HIS:CE1	1:M:817:ILE:HD11	2.53	0.43
1:M:961:TYR:CZ	1:M:963:ALA:HB2	2.53	0.43
1:M:1171:ALA:HB1	1:M:1177:ASN:HD22	1.83	0.43
1:N:719:GLN:O	1:N:722:THR:OG1	2.29	0.43
1:P:605:ILE:HG23	1:P:1028:HIS:ND1	2.33	0.43
1:P:847:THR:HG22	1:P:957:ILE:HG12	1.99	0.43
1:P:1354:LEU:HD13	1:P:1383:ARG:HA	1.99	0.43
2:Y:71:ASN:OD1	2:Y:72:HIS:N	2.51	0.43
1:Q:600:VAL:C	1:Q:602:LEU:H	2.27	0.43
1:Q:720:THR:O	1:Q:723:ASP:HB2	2.18	0.43
1:Q:1200:GLN:NE2	1:Q:1323:SER:O	2.38	0.43
1:R:18:ARG:HH21	1:R:18:ARG:CA	2.31	0.43
1:R:643:PHE:O	1:R:647:GLU:HG3	2.17	0.43
2:a:92:LEU:HD13	2:b:57:TYR:CE2	2.53	0.43
1:S:285:VAL:HG21	1:S:393:PHE:CD1	2.53	0.43
1:T:773:ILE:HD11	1:T:927:ILE:HD11	2.00	0.43
1:T:976:PRO:HD3	1:T:991:SER:OG	2.18	0.43
1:U:835:ILE:C	1:U:838:PRO:HD2	2.44	0.43
1:U:855:LEU:O	1:U:859:LEU:CB	2.66	0.43
1:B:952:LEU:HD11	1:B:977:VAL:HG13	1.99	0.43
1:C:552:ASN:HD21	1:C:554:ARG:HB3	1.82	0.43
1:C:729:GLU:N	1:C:736:SER:OG	2.38	0.43
1:C:1237:ARG:CZ	1:C:1238:ASP:H	2.31	0.43
2:I:26:ALA:O	2:I:29:PRO:HD2	2.19	0.43
1:E:460:TYR:CE2	1:E:1362:LEU:HD13	2.54	0.43
2:J:99:LYS:HE3	2:J:101:THR:HG22	2.00	0.43
1:F:664:LEU:HD12	1:F:680:PHE:CE2	2.54	0.43
1:F:1187:GLY:C	1:F:1188:LEU:HD23	2.42	0.43
2:K:39:SER:OG	2:K:40:GLY:N	2.51	0.43
1:G:936:GLY:HA3	1:G:1053:ILE:HD13	2.01	0.43
1:G:976:PRO:HD2	1:G:992:LEU:HD21	2.01	0.43
3:e:442:THR:CG2	3:e:443:ILE:N	2.81	0.43
4:o:29:LYS:O	4:o:74:ILE:HG12	2.18	0.43
4:o:138:LEU:HD23	4:o:138:LEU:HA	1.89	0.43
4:k:23:LEU:HD23	4:k:23:LEU:HA	1.83	0.43
4:p:28:GLY:N	4:p:74:ILE:O	2.49	0.43
4:p:58:ASP:OD2	4:p:192:GLN:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:349:CYS:SG	4:q:68:MET:HG3	2.57	0.43
4:q:51:TYR:HD1	4:q:57:PRO:HD3	1.83	0.43
4:m:115:LEU:HD12	4:m:115:LEU:HA	1.87	0.43
4:n:29:LYS:HD3	4:n:136:PHE:CD2	2.54	0.43
4:s:218:LEU:HD21	4:s:258:MET:SD	2.58	0.43
1:z:190:ARG:CZ	1:z:406:ARG:HH22	2.31	0.43
1:A:251:GLU:HB3	1:A:254:LEU:HG	1.99	0.43
1:A:476:GLY:O	1:A:1148:LEU:HB2	2.19	0.43
1:A:546:GLN:HG2	1:Q:472:ARG:HH12	1.83	0.43
1:A:566:PHE:CE2	1:A:568:ALA:HB2	2.52	0.43
1:A:737:GLU:HB3	1:A:744:THR:HG21	2.00	0.43
1:A:893:SER:O	1:A:896:VAL:HG12	2.18	0.43
1:A:997:ASN:O	1:A:1001:VAL:HG13	2.18	0.43
2:V:12:ASP:OD1	2:V:12:ASP:N	2.50	0.43
1:N:156:SER:O	1:N:158:THR:N	2.50	0.43
1:O:1384:ASP:N	1:O:1384:ASP:OD1	2.49	0.43
1:P:833:TYR:CD1	1:P:837:ILE:HD11	2.53	0.43
1:Q:429:ASN:ND2	1:Q:606:SER:HB2	2.33	0.43
1:R:227:ARG:NH1	1:R:1308:LEU:HD11	2.33	0.43
1:R:654:GLU:HG2	1:R:689:TYR:CZ	2.54	0.43
1:R:1028:HIS:NE2	1:R:1042:SER:OG	2.48	0.43
1:S:513:GLU:HB3	1:S:518:VAL:HG13	2.00	0.43
1:U:1147:ASN:ND2	1:U:1176:LEU:O	2.45	0.43
1:B:245:MET:HE2	1:B:245:MET:HB3	1.70	0.43
1:B:713:HIS:O	1:B:717:LEU:HG	2.17	0.43
1:B:822:ASP:HB3	1:B:824:GLU:OE1	2.18	0.43
1:B:850:VAL:HG12	1:B:974:PHE:CD1	2.53	0.43
2:H:20:SER:O	2:H:20:SER:OG	2.31	0.43
1:C:197:LEU:HD23	1:C:197:LEU:HA	1.80	0.43
1:C:651:HIS:ND1	1:C:651:HIS:O	2.51	0.43
1:C:742:ILE:HD12	1:C:742:ILE:HA	1.88	0.43
1:E:595:ASN:ND2	1:E:611:ARG:HH12	2.16	0.43
1:E:1290:SER:OG	1:E:1293:PHE:HB2	2.19	0.43
1:F:807:VAL:HB	2:K:83:PHE:CE2	2.53	0.43
1:F:1294:LYS:NZ	1:F:1344:CYS:HB2	2.34	0.43
1:G:141:LEU:HD13	1:G:1116:ARG:NH1	2.34	0.43
1:G:594:ILE:HG12	1:G:597:ASN:ND2	2.33	0.43
1:G:1220:THR:HG22	1:G:1221:ALA:N	2.34	0.43
4:o:204:LEU:O	4:o:208:LEU:N	2.47	0.43
4:q:184:ARG:HA	4:q:184:ARG:HD3	1.87	0.43
3:h:131:PHE:CD2	3:h:197:SER:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:109:GLY:H	4:r:296:VAL:HG23	1.83	0.43
4:n:187:LEU:O	4:n:189:THR:HG23	2.18	0.43
1:A:342:ASP:HA	1:A:345:ARG:HH21	1.83	0.43
1:A:445:SER:HG	1:A:446:GLU:H	1.67	0.43
1:A:776:SER:O	1:A:776:SER:OG	2.32	0.43
1:A:1077:PHE:CD1	1:A:1137:PRO:HB3	2.53	0.43
1:M:1205:GLU:OE1	1:M:1291:PRO:HD2	2.19	0.43
1:N:938:ALA:HB1	1:N:943:ARG:HD3	2.01	0.43
1:O:572:VAL:HG23	1:O:572:VAL:O	2.19	0.43
1:O:711:LEU:HD21	1:O:715:ARG:HE	1.84	0.43
1:O:1146:GLN:HG2	1:O:1147:ASN:O	2.18	0.43
1:O:1248:HIS:NE2	1:O:1267:GLN:HG2	2.33	0.43
1:P:1148:LEU:HD23	1:P:1148:LEU:HA	1.86	0.43
1:Q:794:PHE:O	1:Q:795:GLN:NE2	2.48	0.43
1:Q:851:ARG:HG3	1:Q:975:TYR:HE1	1.84	0.43
1:R:1219:ARG:HH12	1:R:1382:ILE:HA	1.83	0.43
1:S:847:THR:HG21	1:S:979:VAL:HG12	1.99	0.43
1:S:1053:ILE:HD11	1:S:1162:VAL:HG13	2.01	0.43
1:T:882:HIS:CD2	1:T:884:LEU:H	2.35	0.43
1:U:404:ALA:N	1:B:219:GLU:OE1	2.51	0.43
1:U:543:THR:O	1:U:547:PHE:N	2.52	0.43
1:B:172:ARG:HE	1:B:172:ARG:HB2	1.64	0.43
1:B:620:HIS:CE1	1:B:712:GLN:HG3	2.52	0.43
1:E:520:MET:O	1:E:524:MET:HB2	2.18	0.43
1:E:952:LEU:HD11	1:E:977:VAL:HG23	2.01	0.43
2:J:89:MET:SD	2:K:33:ILE:HG23	2.58	0.43
1:F:384:LEU:HD12	1:F:384:LEU:HA	1.85	0.43
1:F:1098:GLN:O	1:F:1113:THR:N	2.50	0.43
1:G:1022:ARG:HB3	1:G:1024:PRO:HD2	1.99	0.43
1:G:1187:GLY:C	1:G:1188:LEU:HD23	2.43	0.43
3:f:131:PHE:CD2	3:f:197:SER:HB2	2.54	0.43
3:g:131:PHE:CD2	3:g:197:SER:HB2	2.54	0.43
4:q:222:LEU:O	4:q:226:LEU:HD13	2.19	0.43
4:q:300:ASP:OD1	4:q:301:GLY:N	2.52	0.43
1:z:1264:TRP:O	1:z:1270:SER:OG	2.27	0.43
1:A:82:PHE:O	1:A:88:SER:OG	2.27	0.43
1:A:600:VAL:C	1:A:602:LEU:H	2.27	0.43
1:A:694:LEU:HA	1:A:694:LEU:HD23	1.83	0.43
1:M:462:LYS:HD2	1:M:1137:PRO:HB2	2.01	0.43
1:M:697:GLY:N	1:M:698:GLU:OE1	2.52	0.43
1:N:615:LEU:HD23	1:N:615:LEU:HA	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:622:MET:HB2	1:N:627:ILE:HD11	1.99	0.43
1:N:934:ASP:N	1:N:934:ASP:OD1	2.51	0.43
1:N:939:THR:HG22	1:N:940:ALA:H	1.83	0.43
1:N:1236:ASP:OD1	1:N:1237:ARG:N	2.52	0.43
1:O:755:ASP:CG	1:O:756:CYS:H	2.25	0.43
1:O:1205:GLU:OE2	1:O:1290:SER:HA	2.19	0.43
1:P:512:THR:O	1:P:513:GLU:HG3	2.18	0.43
1:Q:105:GLY:H	1:Q:136:ILE:HG12	1.84	0.43
1:Q:245:MET:HE2	1:Q:295:LEU:HD13	2.00	0.43
1:Q:299:LEU:HD13	1:Q:304:LEU:HD11	1.99	0.43
1:Q:1354:LEU:N	1:Q:1384:ASP:HB3	2.34	0.43
1:R:16:SER:O	1:R:17:ASP:CB	2.66	0.43
1:R:1175:ARG:NE	1:S:1256:THR:HB	2.33	0.43
2:a:10:VAL:HG21	2:a:32:LEU:HG	2.01	0.43
1:S:233:ASP:OD1	1:S:233:ASP:N	2.51	0.43
1:T:489:THR:HG23	1:T:1269:HIS:HB3	2.00	0.43
1:T:1077:PHE:CD1	1:T:1137:PRO:HB3	2.53	0.43
1:U:683:ASN:OD1	1:U:686:MET:HG2	2.19	0.43
1:U:698:GLU:CD	1:U:698:GLU:H	2.26	0.43
1:U:784:LEU:HD12	1:U:785:HIS:N	2.33	0.43
2:d:89:MET:O	2:d:93:ARG:HB2	2.19	0.43
1:B:420:ILE:HD12	1:B:1071:VAL:O	2.18	0.43
1:B:488:ALA:HA	1:B:491:VAL:HG12	2.00	0.43
1:B:523:PHE:CD1	1:B:1011:PRO:HD3	2.53	0.43
1:B:686:MET:O	1:B:690:ILE:HG12	2.18	0.43
1:B:1248:HIS:HE1	1:B:1266:SER:O	2.02	0.43
1:C:510:GLU:OE1	1:C:510:GLU:N	2.51	0.43
1:C:660:LEU:HD21	1:C:916:LEU:HD11	1.99	0.43
1:C:1093:PHE:HB2	1:C:1117:ALA:HB3	2.00	0.43
1:E:421:MET:HE3	1:E:421:MET:HB2	1.80	0.43
1:E:1304:ASN:OD1	1:E:1310:ARG:HG2	2.19	0.43
1:F:453:PRO:HD2	1:F:614:GLN:OE1	2.17	0.43
1:F:457:ILE:HD11	1:F:1355:CYS:HB3	2.00	0.43
1:F:1071:VAL:HA	1:F:1205:GLU:O	2.18	0.43
1:G:457:ILE:HA	1:G:1357:SER:HA	2.00	0.43
1:G:913:LEU:HA	1:G:916:LEU:HD13	2.00	0.43
2:L:25:ALA:HB3	2:L:28:THR:OG1	2.19	0.43
3:e:131:PHE:CD2	3:e:197:SER:HB2	2.54	0.43
4:k:305:VAL:HG21	4:k:311:THR:HG21	2.00	0.43
4:p:114:LEU:HD23	4:p:114:LEU:H	1.83	0.43
3:h:169:LEU:HD23	3:h:169:LEU:C	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:87:ILE:HD13	4:r:87:ILE:HA	1.82	0.43
1:z:1286:SER:OG	1:z:1288:ILE:HG22	2.18	0.43
1:A:655:ARG:NH1	1:A:805:ARG:HH22	2.16	0.43
1:A:911:LEU:HD11	2:D:69:ARG:HB2	1.98	0.43
1:M:514:ASP:OD1	1:M:515:THR:N	2.52	0.43
1:N:658:CYS:HB3	2:W:82:MET:SD	2.57	0.43
2:W:96:VAL:HG11	1:P:897:TYR:HE1	1.84	0.43
1:P:411:LEU:HD23	1:P:411:LEU:HA	1.84	0.43
1:P:651:HIS:CE1	1:P:653:ASN:HB2	2.53	0.43
1:P:751:PRO:HD3	1:P:834:TYR:CZ	2.54	0.43
2:Y:87:ASP:OD2	2:Y:89:MET:HB2	2.19	0.43
1:R:784:LEU:HD23	1:R:785:HIS:N	2.33	0.43
1:R:846:CYS:HB3	1:R:988:HIS:CD2	2.53	0.43
1:R:1177:ASN:HD22	1:R:1179:THR:HB	1.83	0.43
1:S:970:THR:OG1	1:S:971:GLY:N	2.52	0.43
1:U:280:THR:OG1	1:U:281:ARG:NH1	2.51	0.43
1:C:562:ALA:HB2	1:C:1050:PHE:HD2	1.83	0.43
1:E:646:LEU:O	1:E:650:ILE:HG13	2.19	0.43
1:F:274:ARG:HE	1:F:275:ILE:HG22	1.83	0.43
1:F:520:MET:HA	1:F:524:MET:HG2	2.01	0.43
1:G:462:LYS:HB2	1:G:1140:ASP:HA	2.00	0.43
1:G:803:HIS:ND1	1:G:803:HIS:O	2.51	0.43
1:G:885:HIS:O	1:G:889:LEU:N	2.51	0.43
1:G:891:PRO:O	2:L:34:ARG:NH2	2.52	0.43
1:G:1394:LEU:HB3	1:G:1395:PRO:HD2	2.01	0.43
4:p:30:ILE:HG12	4:p:73:VAL:HG22	2.01	0.43
3:h:157:THR:O	3:h:157:THR:HG22	2.17	0.43
4:r:148:ILE:HG23	4:r:187:LEU:HD22	2.01	0.43
1:z:190:ARG:NH2	1:z:406:ARG:HH12	2.16	0.43
1:M:54:ILE:HD13	1:M:61:LEU:HD21	2.01	0.43
1:M:694:LEU:HD23	1:M:694:LEU:HA	1.84	0.43
1:M:785:HIS:CE1	1:M:811:THR:HA	2.53	0.43
1:N:151:ALA:O	1:N:155:LEU:HB2	2.19	0.43
1:N:152:LEU:O	1:N:156:SER:N	2.52	0.43
1:N:856:TYR:CE2	1:N:920:MET:HE2	2.54	0.43
1:N:930:SER:HG	1:N:946:ARG:HE	1.64	0.43
2:W:96:VAL:HG21	1:P:897:TYR:OH	2.18	0.43
1:O:835:ILE:C	1:O:838:PRO:HD2	2.43	0.43
1:P:245:MET:HB2	1:P:1132:ALA:O	2.19	0.43
1:Q:89:VAL:HG22	1:Q:277:HIS:CG	2.54	0.43
1:Q:803:HIS:HE1	1:Q:817:ILE:HD12	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:913:LEU:O	1:Q:916:LEU:HG	2.17	0.43
1:R:1090:GLU:N	1:R:1090:GLU:OE2	2.51	0.43
1:R:1243:ALA:O	1:R:1247:ASP:HB3	2.18	0.43
1:S:272:VAL:O	1:S:274:ARG:HG2	2.19	0.43
1:S:937:ALA:HB2	1:S:1051:THR:HG23	2.01	0.43
1:T:423:MET:HE2	1:T:423:MET:HB3	1.75	0.43
1:T:563:PHE:O	1:T:592:ARG:NE	2.51	0.43
1:U:475:MET:H	1:U:475:MET:HG2	1.67	0.43
1:U:1000:ARG:HG3	1:U:1004:LYS:NZ	2.34	0.43
1:U:1058:GLN:NE2	1:U:1065:PRO:HB3	2.27	0.43
1:B:34:ASN:OD1	1:B:35:VAL:N	2.47	0.43
1:B:121:PRO:HD2	1:B:122:HIS:CE1	2.54	0.43
1:C:401:VAL:HG13	1:C:402:TYR:HD2	1.84	0.43
1:C:472:ARG:NH1	1:C:1173:GLY:HA3	2.33	0.43
1:C:580:PRO:HA	1:C:581:PRO:HD3	1.91	0.43
1:F:329:THR:O	1:F:333:MET:HG2	2.18	0.43
1:F:769:ARG:NH2	1:F:932:ALA:O	2.52	0.43
3:e:357:LEU:HD12	3:e:358:LEU:CD1	2.23	0.43
4:s:10:LEU:HD11	4:s:39:ARG:NH2	2.33	0.43
4:s:111:TYR:HE1	4:s:295:ARG:HE	1.66	0.43
1:z:1152:ARG:NH1	1:z:1281:ASN:OD1	2.52	0.43
1:A:446:GLU:OE1	1:A:446:GLU:N	2.37	0.43
1:A:739:LEU:HD13	1:A:1053:ILE:HG21	2.00	0.43
1:M:26:PRO:O	1:M:28:GLY:N	2.52	0.43
1:M:909:ALA:O	1:M:912:THR:OG1	2.18	0.43
1:M:1248:HIS:NE2	1:M:1260:THR:HG21	2.33	0.43
1:N:500:ARG:HA	1:N:500:ARG:HD2	1.77	0.43
1:N:574:LEU:H	1:N:574:LEU:HD12	1.84	0.43
1:O:49:ASP:O	1:C:132:MET:HA	2.19	0.43
1:O:997:ASN:O	1:O:1001:VAL:HG12	2.19	0.43
2:X:15:ASN:N	2:X:16:PRO:HD2	2.34	0.43
1:P:682:ASN:HB3	1:P:959:MET:HE2	1.99	0.43
1:Q:181:LEU:HD12	1:Q:181:LEU:HA	1.81	0.43
1:Q:326:ASN:HA	1:Q:329:THR:HG22	2.01	0.43
1:Q:566:PHE:CE2	1:Q:1017:HIS:HB3	2.54	0.43
1:Q:1007:PRO:HA	1:Q:1008:PRO:HD3	1.88	0.43
2:Z:40:GLY:H	2:Z:46:HIS:HE1	1.66	0.43
1:S:254:LEU:HD23	1:S:254:LEU:HA	1.84	0.43
1:S:683:ASN:HD21	1:S:754:TRP:NE1	2.16	0.43
1:T:664:LEU:HD23	1:T:664:LEU:HA	1.80	0.43
1:T:868:PRO:HD2	1:T:871:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:31:ALA:O	2:c:35:LEU:HD23	2.19	0.43
1:U:119:ASP:CB	1:G:195:GLN:HG3	2.49	0.43
1:U:513:GLU:CD	1:U:514:ASP:H	2.27	0.43
1:U:544:ILE:HD12	1:U:544:ILE:H	1.82	0.43
1:U:609:ASP:OD1	1:U:609:ASP:N	2.47	0.43
1:U:615:LEU:HD21	1:U:1063:PHE:CE1	2.54	0.43
2:d:31:ALA:O	2:d:35:LEU:HD23	2.18	0.43
1:B:217:GLN:HG3	1:B:219:GLU:H	1.84	0.43
1:B:237:ARG:NH2	1:B:241:ASP:OD2	2.51	0.43
1:B:837:ILE:O	1:B:841:SER:OG	2.34	0.43
1:C:68:ILE:HA	1:E:336:ALA:O	2.19	0.43
1:C:308:ASP:OD1	1:C:309:THR:N	2.51	0.43
1:C:427:GLN:HB3	1:C:432:ASP:OD2	2.19	0.43
1:E:450:ARG:NH1	1:F:431:MET:HB3	2.33	0.43
1:E:757:ASP:CG	1:E:819:PRO:HA	2.44	0.43
1:E:1268:LYS:HG2	1:E:1269:HIS:CD2	2.53	0.43
1:E:1283:THR:O	1:E:1286:SER:OG	2.35	0.43
1:E:1307:THR:C	1:E:1309:ASP:H	2.27	0.43
1:E:1307:THR:O	1:E:1308:LEU:HG	2.17	0.43
1:F:29:ILE:HG13	1:F:30:ILE:N	2.33	0.43
1:F:483:LEU:HD23	1:F:483:LEU:HA	1.77	0.43
1:F:608:ARG:O	1:F:611:ARG:HG2	2.19	0.43
1:F:1171:ALA:HA	1:F:1177:ASN:ND2	2.34	0.43
1:G:141:LEU:HD13	1:G:1116:ARG:HH12	1.83	0.43
1:G:704:ILE:HG13	1:G:705:ASN:N	2.34	0.43
1:G:1027:TYR:HA	1:G:1030:THR:HG22	2.01	0.43
3:e:131:PHE:HD2	3:e:197:SER:HB2	1.83	0.43
4:j:78:ILE:O	4:j:81:LYS:N	2.45	0.43
4:j:111:TYR:HD1	4:j:111:TYR:HA	1.69	0.43
4:o:52:ILE:O	4:o:52:ILE:HG13	2.18	0.43
4:k:126:ARG:HH21	4:k:128:ASP:HB3	1.84	0.43
4:q:213:ASN:OD1	4:q:214:GLU:N	2.50	0.43
4:r:145:MET:O	4:r:149:ILE:HG12	2.19	0.43
3:i:131:PHE:CD2	3:i:197:SER:HB2	2.54	0.43
1:A:389:ASP:N	1:A:389:ASP:OD1	2.47	0.43
1:A:731:HIS:ND1	1:A:1162:VAL:HG12	2.33	0.43
1:M:132:MET:SD	1:M:132:MET:N	2.92	0.43
1:M:889:LEU:HD12	1:M:889:LEU:HA	1.76	0.43
1:M:1237:ARG:HB2	1:M:1240:ASP:OD1	2.19	0.43
1:N:152:LEU:HD23	1:N:152:LEU:H	1.84	0.43
1:N:462:LYS:NZ	1:N:463:ASP:OD1	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:269:SER:OG	1:O:270:VAL:N	2.52	0.43
1:P:754:TRP:CZ3	1:P:954:HIS:HA	2.54	0.43
1:P:801:LEU:HD21	1:P:953:TYR:CD2	2.54	0.43
1:P:882:HIS:HA	1:P:883:PRO:HD3	1.90	0.43
1:Q:82:PHE:N	1:Q:189:GLU:OE1	2.40	0.43
1:Q:470:THR:OG1	1:Q:471:LEU:N	2.52	0.43
1:Q:670:GLY:O	1:Q:674:GLN:NE2	2.51	0.43
1:Q:965:ASP:OD1	1:Q:967:THR:HG23	2.19	0.43
1:Q:1310:ARG:NH1	1:Q:1314:GLU:OE1	2.52	0.43
1:R:92:ILE:HG23	1:R:274:ARG:NH2	2.34	0.43
1:R:400:ARG:HE	1:R:400:ARG:HB3	1.63	0.43
1:R:848:MET:HE3	1:R:988:HIS:HD2	1.84	0.43
1:R:1034:SER:OG	1:R:1038:THR:OG1	2.34	0.43
1:R:1362:LEU:HA	1:R:1362:LEU:HD23	1.80	0.43
1:S:1076:ARG:NH2	1:S:1324:THR:HG22	2.34	0.43
2:b:28:THR:HG23	2:b:29:PRO:HD3	2.01	0.43
1:T:105:GLY:O	1:T:136:ILE:HG23	2.18	0.43
1:T:727:GLN:NE2	1:T:737:GLU:OE2	2.38	0.43
1:T:961:TYR:CD2	1:T:963:ALA:HB2	2.54	0.43
1:U:234:LEU:O	1:U:238:VAL:HG22	2.19	0.43
1:U:597:ASN:HD21	1:U:1022:ARG:NE	2.17	0.43
1:U:615:LEU:HD23	1:U:724:PHE:HE2	1.84	0.43
1:U:743:LEU:HD21	1:U:831:ILE:HA	2.01	0.43
1:U:807:VAL:HB	2:d:83:PHE:CD2	2.54	0.43
1:U:855:LEU:O	1:U:859:LEU:HB2	2.19	0.43
1:U:966:GLU:N	1:U:966:GLU:OE1	2.52	0.43
1:U:1161:ASN:HA	1:U:1164:GLU:OE2	2.19	0.43
1:U:1176:LEU:HD21	1:U:1288:ILE:HG21	2.01	0.43
1:B:35:VAL:C	1:B:36:LEU:HD23	2.44	0.43
1:B:865:PRO:HD3	1:B:888:GLN:HG2	2.00	0.43
1:B:879:ASP:OD1	1:B:882:HIS:HB2	2.19	0.43
1:B:1051:THR:N	1:B:1054:SER:OG	2.46	0.43
1:E:466:LEU:HD21	1:F:1216:GLN:HG3	2.00	0.43
2:J:11:PHE:HD1	2:J:44:PRO:HG2	1.84	0.43
1:F:642:ILE:HG23	1:F:643:PHE:HD1	1.84	0.43
1:G:134:LYS:HD3	1:G:134:LYS:HA	1.75	0.43
1:G:685:HIS:CG	1:G:825:TRP:HZ2	2.37	0.43
1:G:979:VAL:HA	1:G:1013:LEU:HD23	2.01	0.43
1:G:1251:SER:OG	1:G:1256:THR:O	2.37	0.43
4:k:153:VAL:HG13	4:p:274:ILE:HD13	2.01	0.43
3:h:160:GLN:HB3	3:h:163:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:106:LEU:HB2	4:m:305:VAL:HB	2.00	0.43
4:m:115:LEU:HD12	4:m:116:PRO:HD2	2.00	0.43
1:A:762:ARG:NH2	1:A:929:VAL:HB	2.34	0.42
1:A:1167:ARG:CZ	1:A:1182:LEU:HD11	2.49	0.42
1:A:1303:THR:O	1:A:1303:THR:OG1	2.35	0.42
1:M:197:LEU:HD23	1:M:197:LEU:HA	1.85	0.42
1:M:965:ASP:OD1	1:M:967:THR:HG23	2.18	0.42
2:V:26:ALA:HB2	2:V:65:ALA:HA	2.01	0.42
1:N:713:HIS:HD2	1:N:717:LEU:HD11	1.83	0.42
1:O:1123:VAL:HG23	1:R:39:ILE:HD11	2.01	0.42
1:O:1223:ASN:HD22	1:O:1228:ALA:HA	1.84	0.42
1:P:1071:VAL:HA	1:P:1205:GLU:O	2.19	0.42
1:P:1303:THR:HA	1:P:1306:ASN:HD22	1.84	0.42
1:P:1326:THR:HG21	1:P:1330:PHE:CE2	2.54	0.42
2:Y:55:SER:O	2:Y:58:THR:OG1	2.27	0.42
1:Q:683:ASN:OD1	1:Q:684:PHE:N	2.52	0.42
1:S:25:ILE:HB	1:S:26:PRO:HD3	2.00	0.42
1:S:84:GLU:N	1:S:84:GLU:OE2	2.52	0.42
1:S:306:ILE:H	1:S:306:ILE:HD12	1.83	0.42
1:S:664:LEU:HA	1:S:664:LEU:HD23	1.73	0.42
1:S:1364:THR:OG1	1:S:1365:ALA:N	2.50	0.42
1:T:391:LEU:HD12	1:T:391:LEU:HA	1.82	0.42
1:T:1032:SER:O	1:T:1033:LYS:HG2	2.19	0.42
1:U:112:GLN:H	1:U:112:GLN:CD	2.27	0.42
1:U:1326:THR:HG21	1:U:1330:PHE:CD2	2.54	0.42
1:B:421:MET:HE1	1:B:459:PHE:CD1	2.53	0.42
1:C:744:THR:HA	1:C:827:ILE:HD12	2.00	0.42
1:E:547:PHE:HD2	1:E:548:ILE:HD13	1.83	0.42
1:F:173:ALA:O	1:F:177:MET:HG3	2.19	0.42
1:F:574:LEU:HD23	1:F:574:LEU:HA	1.84	0.42
1:F:645:MET:HA	1:F:855:LEU:HD21	2.01	0.42
1:F:789:MET:HE1	2:K:62:ALA:HB3	2.00	0.42
1:F:989:LEU:HD12	1:F:989:LEU:HA	1.85	0.42
1:G:1143:ASN:O	1:G:1144:THR:OG1	2.35	0.42
1:z:162:GLY:O	1:z:163:THR:OG1	2.31	0.42
1:z:289:LEU:HB2	1:z:1084:TYR:CD1	2.54	0.42
1:A:1157:MET:HE3	1:A:1157:MET:HB3	1.84	0.42
1:M:732:ASN:HD21	1:M:1161:ASN:HD21	1.66	0.42
1:M:803:HIS:HD2	1:M:820:HIS:HE1	1.67	0.42
1:M:867:ILE:HD11	2:V:105:ARG:HH21	1.84	0.42
1:N:817:ILE:HD12	1:N:817:ILE:HA	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1255:TYR:HD2	1:N:1258:ARG:NH2	2.18	0.42
1:O:544:ILE:HG23	1:O:545:LEU:HD12	2.01	0.42
1:P:637:ARG:O	1:P:962:GLN:NE2	2.44	0.42
1:P:803:HIS:NE2	1:P:817:ILE:HD11	2.34	0.42
1:P:992:LEU:HD22	1:P:995:MET:HE2	1.99	0.42
1:Q:291:THR:HG22	1:Q:1082:LEU:CD1	2.48	0.42
1:Q:523:PHE:O	1:Q:523:PHE:CG	2.72	0.42
1:Q:905:VAL:HG21	1:Q:910:LEU:HD21	2.00	0.42
1:R:475:MET:HG2	1:R:479:CYS:SG	2.59	0.42
1:R:593:ILE:H	1:R:593:ILE:HD12	1.84	0.42
2:a:80:THR:HG22	2:a:81:ALA:N	2.33	0.42
2:b:10:VAL:HG11	2:b:36:LEU:HB2	2.02	0.42
1:T:242:MET:HE1	1:T:1343:PRO:HG2	2.02	0.42
1:T:490:LEU:O	1:T:494:ARG:HG2	2.19	0.42
1:U:685:HIS:O	1:U:689:TYR:HB2	2.18	0.42
1:B:466:LEU:HD23	1:C:1216:GLN:HG3	2.02	0.42
1:B:600:VAL:C	1:B:602:LEU:H	2.27	0.42
1:B:700:PRO:HG2	1:B:703:CYS:CB	2.49	0.42
1:B:1185:PHE:CD2	3:g:152:ILE:HD11	2.54	0.42
1:C:842:ARG:HH22	1:C:1033:LYS:H	1.67	0.42
1:C:1241:ILE:H	1:C:1241:ILE:HD12	1.83	0.42
1:C:1332:ARG:NH2	1:C:1336:SER:HB2	2.34	0.42
1:F:664:LEU:HD12	1:F:680:PHE:HE2	1.84	0.42
1:F:1004:LYS:HB3	1:F:1004:LYS:HE2	1.81	0.42
1:F:1203:VAL:HG12	1:F:1329:GLN:HG3	2.01	0.42
1:G:657:PHE:CE2	1:G:689:TYR:HB3	2.54	0.42
1:G:1165:SER:OG	1:G:1166:LEU:N	2.52	0.42
4:j:19:GLU:O	4:j:23:LEU:HG	2.18	0.42
4:j:61:SER:HA	4:j:64:GLU:HG2	2.01	0.42
4:j:100:ASN:HD21	4:j:311:THR:HG21	1.82	0.42
3:f:160:GLN:HB3	3:f:163:ARG:NH1	2.34	0.42
3:f:305:TRP:CZ2	3:f:357:LEU:HD21	2.54	0.42
3:f:438:THR:HG22	3:f:477:THR:O	2.20	0.42
4:p:106:LEU:HD23	4:p:106:LEU:HA	1.78	0.42
4:q:197:SER:O	4:q:201:ILE:HG12	2.19	0.42
4:n:272:GLU:O	4:n:276:SER:OG	2.28	0.42
1:z:199:VAL:HG11	1:z:1090:GLU:OE2	2.19	0.42
1:A:224:ARG:O	1:A:224:ARG:HG2	2.20	0.42
2:D:28:THR:N	2:D:29:PRO:HD2	2.35	0.42
1:M:624:PRO:O	1:M:628:LYS:HE3	2.20	0.42
1:M:748:PHE:HB3	1:M:830:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:274:ARG:HH11	1:N:275:ILE:HG12	1.84	0.42
1:P:245:MET:SD	1:P:295:LEU:HD22	2.59	0.42
1:Q:244:PHE:CE2	1:Q:245:MET:HG2	2.54	0.42
1:R:67:ASP:OD1	1:S:103:ARG:NE	2.47	0.42
1:R:455:GLN:O	1:R:470:THR:OG1	2.24	0.42
1:R:1301:VAL:HG21	1:R:1310:ARG:HH21	1.83	0.42
2:a:11:PHE:CE2	2:a:12:ASP:HB2	2.55	0.42
2:a:91:TRP:CD1	2:a:91:TRP:H	2.36	0.42
1:U:1166:LEU:O	1:U:1170:THR:HG23	2.19	0.42
1:B:268:PRO:HA	1:B:1086:GLU:OE2	2.18	0.42
1:B:660:LEU:HD23	1:B:663:LEU:HD23	2.00	0.42
1:B:1159:HIS:O	1:B:1162:VAL:HG12	2.19	0.42
1:B:1384:ASP:OD1	1:B:1386:SER:OG	2.34	0.42
1:C:959:MET:O	1:C:988:HIS:NE2	2.48	0.42
1:C:994:GLY:O	1:C:999:ARG:NH1	2.52	0.42
1:C:1333:PRO:HA	1:C:1334:PRO:HD3	1.95	0.42
1:C:1369:GLU:N	1:C:1369:GLU:OE2	2.51	0.42
2:I:52:ASP:OD1	2:I:53:ALA:N	2.51	0.42
1:E:187:SER:OG	1:F:115:MET:O	2.29	0.42
1:F:325:THR:HB	1:F:340:MET:HE2	2.02	0.42
1:F:1307:THR:C	1:F:1309:ASP:H	2.26	0.42
1:G:835:ILE:HA	1:G:1043:LEU:HD23	2.01	0.42
1:G:1094:VAL:HA	1:G:1116:ARG:HG3	2.01	0.42
3:e:475:THR:O	3:e:477:THR:N	2.49	0.42
3:g:204:CYS:CB	3:g:235:LEU:HD23	2.44	0.42
3:h:124:GLN:NE2	3:h:125:VAL:O	2.51	0.42
4:r:9:VAL:HA	4:r:40:ALA:O	2.19	0.42
3:i:438:THR:HG22	3:i:477:THR:O	2.20	0.42
1:z:212:PRO:HG3	1:z:237:ARG:HD3	2.02	0.42
1:A:77:LEU:H	1:A:77:LEU:HD12	1.84	0.42
1:A:1074:GLN:HG2	1:A:1075:ASP:N	2.35	0.42
1:A:1227:ARG:NH1	1:A:1259:ALA:O	2.51	0.42
1:M:469:LEU:HD13	1:M:1143:ASN:HB2	2.01	0.42
1:M:1148:LEU:HD23	1:M:1148:LEU:HA	1.86	0.42
1:N:539:ASN:HD22	1:N:541:HIS:HE1	1.66	0.42
1:N:687:LEU:O	1:N:691:THR:HG22	2.19	0.42
1:N:687:LEU:HD23	1:N:687:LEU:HA	1.79	0.42
1:N:867:ILE:HD12	1:N:868:PRO:HD2	2.01	0.42
1:N:1081:GLN:HG3	1:N:1131:THR:HG22	2.00	0.42
1:O:475:MET:HG3	1:O:479:CYS:SG	2.59	0.42
1:O:504:PHE:HE1	1:O:523:PHE:HZ	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:922:GLU:HG3	1:O:923:ARG:N	2.34	0.42
1:O:1288:ILE:HD13	1:O:1288:ILE:HA	1.87	0.42
1:P:655:ARG:NH1	1:P:805:ARG:HE	2.17	0.42
1:Q:245:MET:HE3	1:Q:295:LEU:HD22	2.01	0.42
1:Q:810:ASP:OD1	1:Q:811:THR:N	2.46	0.42
1:S:35:VAL:C	1:S:36:LEU:HD23	2.44	0.42
1:T:906:ASP:OD1	1:T:906:ASP:N	2.52	0.42
1:T:1372:ALA:O	1:T:1381:LEU:HD13	2.19	0.42
1:U:472:ARG:HA	1:U:475:MET:HE3	2.01	0.42
1:U:660:LEU:HD21	1:U:913:LEU:CB	2.50	0.42
1:U:796:ARG:HG2	1:U:798:ASP:H	1.84	0.42
1:U:889:LEU:HD23	1:U:895:ASN:HB3	2.00	0.42
1:U:1189:ARG:NH2	3:e:312:HIS:CD2	2.81	0.42
2:d:31:ALA:HA	2:d:34:ARG:HG2	2.00	0.42
1:B:141:LEU:HD23	1:B:141:LEU:HA	1.85	0.42
1:B:832:TYR:O	1:B:836:VAL:HG22	2.18	0.42
1:C:423:MET:HE3	1:C:1069:PHE:HB2	2.02	0.42
1:F:1076:ARG:HB3	1:F:1139:THR:HG23	2.01	0.42
1:F:1364:THR:OG1	1:F:1369:GLU:HB3	2.19	0.42
2:K:12:ASP:OD2	2:K:15:ASN:HB2	2.19	0.42
1:G:448:ASP:N	1:G:448:ASP:OD1	2.43	0.42
1:G:801:LEU:HD12	1:G:953:TYR:HE1	1.83	0.42
1:G:1326:THR:HG21	1:G:1330:PHE:CE2	2.55	0.42
1:G:1341:GLN:C	1:G:1343:PRO:HD3	2.44	0.42
3:f:174:ASN:O	3:f:237:ARG:NH1	2.52	0.42
4:k:115:LEU:HD12	4:k:115:LEU:HA	1.86	0.42
4:p:73:VAL:HG23	4:p:87:ILE:HD11	2.02	0.42
4:m:279:SER:OG	4:m:280:THR:N	2.52	0.42
4:n:36:LEU:HD12	4:n:36:LEU:HA	1.91	0.42
4:n:68:MET:HE2	4:n:68:MET:HB3	1.80	0.42
1:z:420:ILE:O	1:z:1353:PRO:HD2	2.19	0.42
1:A:118:ARG:NH2	1:A:122:HIS:HB3	2.34	0.42
1:A:1176:LEU:HD12	1:A:1176:LEU:HA	1.83	0.42
1:A:1344:CYS:SG	1:A:1345:GLY:N	2.92	0.42
1:M:254:LEU:HD23	1:M:254:LEU:HA	1.85	0.42
1:M:976:PRO:HD3	1:M:991:SER:HB3	2.02	0.42
1:N:885:HIS:CG	1:N:886:ALA:N	2.87	0.42
1:N:1164:GLU:HG2	1:N:1167:ARG:HH21	1.85	0.42
2:Y:69:ARG:HH22	2:Y:79:ARG:HD3	1.84	0.42
1:Q:269:SER:OG	1:Q:270:VAL:N	2.53	0.42
1:Q:422:PRO:O	1:Q:457:ILE:HD12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:671:TYR:CE1	1:Q:677:ARG:HB2	2.51	0.42
1:R:675:SER:O	1:R:677:ARG:HD2	2.19	0.42
1:R:969:ALA:HB3	1:R:972:THR:HG23	2.02	0.42
1:R:1219:ARG:NH1	1:R:1382:ILE:HA	2.34	0.42
1:R:1308:LEU:H	1:R:1310:ARG:NH1	2.17	0.42
1:R:1326:THR:HG23	1:R:1328:TYR:O	2.19	0.42
1:S:510:GLU:HA	1:S:1012:PHE:HB2	2.01	0.42
1:S:956:LEU:HD12	1:S:956:LEU:HA	1.86	0.42
1:T:396:ALA:HB1	1:T:398:GLU:OE2	2.20	0.42
1:T:1247:ASP:OD2	1:T:1250:GLN:NE2	2.52	0.42
1:U:262:MET:HE1	1:U:1082:LEU:HD23	2.01	0.42
1:U:411:LEU:HD13	1:U:1083:LEU:HD12	2.01	0.42
1:U:580:PRO:HA	1:U:581:PRO:HD3	1.86	0.42
1:U:848:MET:HE2	1:U:988:HIS:HD2	1.85	0.42
1:U:1120:ASP:OD1	1:U:1121:LEU:N	2.53	0.42
1:U:1214:ASP:OD1	1:U:1215:LEU:N	2.53	0.42
1:B:285:VAL:HG11	1:B:393:PHE:CE2	2.54	0.42
1:C:139:ARG:CZ	1:C:195:GLN:HE21	2.32	0.42
1:C:1000:ARG:HA	1:C:1000:ARG:HD2	1.86	0.42
1:C:1177:ASN:OD1	1:C:1177:ASN:N	2.52	0.42
2:J:93:ARG:HH22	1:F:858:ALA:HA	1.84	0.42
1:F:91:CYS:HB2	1:F:1090:GLU:OE2	2.19	0.42
1:F:717:LEU:HD22	1:F:1044:LEU:HD22	2.01	0.42
1:F:872:GLU:HA	2:K:107:ILE:HG22	2.00	0.42
1:F:1055:LEU:HD13	1:F:1055:LEU:HA	1.92	0.42
1:F:1354:LEU:N	1:F:1384:ASP:HB3	2.34	0.42
2:K:87:ASP:O	2:K:90:THR:HG22	2.19	0.42
1:G:484:LEU:HB3	1:G:939:THR:HG21	2.01	0.42
3:e:247:GLN:HB2	3:e:334:GLU:HG3	2.02	0.42
4:j:9:VAL:HG12	4:j:82:LEU:HB3	2.01	0.42
4:j:111:TYR:CE1	4:j:295:ARG:HB2	2.54	0.42
4:p:16:SER:O	4:p:20:THR:HG23	2.19	0.42
3:g:227:GLY:O	3:g:228:CYS:HB2	2.20	0.42
4:l:193:HIS:O	4:l:197:SER:HB2	2.19	0.42
3:i:204:CYS:CB	3:i:235:LEU:HD23	2.40	0.42
3:i:247:GLN:HB2	3:i:334:GLU:HG3	2.01	0.42
1:z:104:ASP:HA	1:z:136:ILE:HD11	2.01	0.42
1:z:1081:GLN:HA	1:z:1131:THR:HA	2.01	0.42
1:A:531:MET:O	1:A:533:HIS:N	2.52	0.42
1:M:320:MET:HE3	1:M:338:ARG:HE	1.85	0.42
2:W:87:ASP:OD2	2:W:93:ARG:NH2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:427:GLN:NE2	1:O:432:ASP:HB3	2.34	0.42
1:O:1180:GLU:HB2	1:O:1181:PRO:HD3	2.01	0.42
1:O:1274:ARG:HE	1:O:1274:ARG:HB2	1.66	0.42
1:P:274:ARG:NH2	1:P:275:ILE:HB	2.35	0.42
1:P:539:ASN:HD22	1:P:541:HIS:CE1	2.38	0.42
1:P:563:PHE:O	1:P:592:ARG:NE	2.52	0.42
1:P:996:THR:O	1:P:1000:ARG:HG2	2.20	0.42
1:R:22:LEU:HD23	1:R:22:LEU:HA	1.83	0.42
1:R:756:CYS:HB3	1:R:781:TYR:OH	2.19	0.42
1:R:793:ASN:ND2	1:R:796:ARG:HE	2.17	0.42
1:S:615:LEU:HD22	1:S:724:PHE:CE2	2.49	0.42
1:T:136:ILE:HG22	1:T:1119:VAL:HB	2.01	0.42
1:U:297:ARG:O	1:U:301:GLN:NE2	2.53	0.42
1:U:447:GLN:OE1	1:U:447:GLN:N	2.52	0.42
1:U:508:VAL:HG21	1:U:948:TYR:CE2	2.55	0.42
1:U:688:MET:HE1	1:B:964:TYR:CD1	2.54	0.42
1:U:726:ILE:HB	1:U:729:GLU:OE1	2.19	0.42
1:U:753:LEU:O	1:U:954:HIS:HD2	2.03	0.42
1:U:1214:ASP:OD1	1:U:1216:GLN:N	2.52	0.42
1:B:48:PHE:CE2	1:B:50:PHE:HB2	2.55	0.42
1:B:299:LEU:HD23	1:B:303:ILE:HD12	2.01	0.42
1:B:534:HIS:CD2	1:B:539:ASN:HD21	2.38	0.42
1:C:672:TRP:HZ2	1:C:702:VAL:HB	1.85	0.42
1:C:1200:GLN:HB2	1:E:225:VAL:HG21	2.01	0.42
1:E:503:TYR:CD1	1:E:569:PRO:HD3	2.55	0.42
1:E:1388:LEU:H	1:E:1388:LEU:HD12	1.84	0.42
1:F:79:PHE:CZ	1:F:182:ARG:HG2	2.54	0.42
1:F:459:PHE:HB3	1:F:1355:CYS:SG	2.60	0.42
1:F:501:GLN:HE21	1:F:536:HIS:CE1	2.37	0.42
1:G:544:ILE:O	1:G:548:ILE:HG12	2.20	0.42
1:G:725:THR:HG22	1:G:726:ILE:H	1.85	0.42
1:G:745:ASP:OD1	1:G:747:THR:HG23	2.20	0.42
2:L:36:LEU:HG	2:L:37:ASN:H	1.83	0.42
4:p:26:CYS:HB2	4:p:29:LYS:HD2	2.01	0.42
4:p:215:GLY:HA3	4:p:270:ILE:HD13	2.01	0.42
3:g:438:THR:HG22	3:g:477:THR:O	2.20	0.42
4:q:75:THR:HG21	4:q:85:HIS:CG	2.54	0.42
3:h:360:ARG:O	3:h:364:GLU:HG2	2.20	0.42
3:h:438:THR:HG22	3:h:477:THR:O	2.20	0.42
1:z:248:HIS:O	1:z:255:ILE:HD11	2.19	0.42
1:A:823:ARG:HD2	1:M:997:ASN:ND2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:888:GLN:N	1:A:888:GLN:OE1	2.53	0.42
1:M:778:ARG:NH1	1:M:798:ASP:OD1	2.52	0.42
1:O:335:LYS:HB2	1:S:333:MET:SD	2.59	0.42
1:O:339:GLY:O	1:O:343:VAL:HG13	2.20	0.42
1:O:798:ASP:O	1:O:923:ARG:NH2	2.53	0.42
1:O:856:TYR:CG	1:O:920:MET:HE2	2.55	0.42
1:P:209:LEU:HD22	1:P:234:LEU:HD13	2.02	0.42
1:P:658:CYS:HA	1:P:661:LEU:HD13	2.01	0.42
1:P:801:LEU:HD12	1:P:801:LEU:HA	1.80	0.42
1:R:75:ASN:OD1	1:S:111:VAL:HA	2.19	0.42
1:S:1279:THR:HG23	1:S:1280:TYR:CD1	2.55	0.42
1:T:539:ASN:HA	1:T:541:HIS:CE1	2.54	0.42
1:U:67:ASP:OD1	1:B:103:ARG:HB3	2.19	0.42
1:U:597:ASN:ND2	1:U:1022:ARG:HE	2.17	0.42
1:U:1076:ARG:HB2	1:U:1139:THR:CG2	2.49	0.42
1:U:1377:LEU:HD12	1:U:1377:LEU:HA	1.89	0.42
2:d:8:ARG:HE	2:d:32:LEU:HD13	1.84	0.42
1:B:713:HIS:CD2	1:B:717:LEU:HD11	2.55	0.42
1:B:822:ASP:HB3	1:B:824:GLU:CD	2.44	0.42
1:B:1080:GLU:OE2	1:B:1135:ARG:HG3	2.20	0.42
1:C:181:LEU:O	1:C:185:LEU:HD23	2.19	0.42
1:C:384:LEU:HD11	1:C:393:PHE:CZ	2.55	0.42
1:C:721:ILE:HG13	1:C:741:ASN:HD22	1.83	0.42
1:C:859:LEU:HD11	1:C:913:LEU:HD11	2.01	0.42
1:E:573:ASP:OD1	1:E:573:ASP:N	2.51	0.42
1:E:678:VAL:HG11	1:E:706:ILE:HG21	2.01	0.42
1:E:801:LEU:HD13	1:E:953:TYR:CE1	2.55	0.42
1:F:182:ARG:HA	1:F:185:LEU:CD2	2.50	0.42
1:F:419:PHE:O	1:F:1072:VAL:HA	2.19	0.42
1:F:520:MET:SD	1:F:521:GLY:N	2.93	0.42
1:F:1351:TYR:CD2	1:F:1387:PRO:HD3	2.55	0.42
1:G:561:PRO:HB3	1:G:1264:TRP:CD2	2.54	0.42
3:e:160:GLN:HB3	3:e:163:ARG:NH1	2.34	0.42
3:e:448:VAL:O	3:e:448:VAL:CG2	2.59	0.42
4:o:179:CYS:SG	4:o:184:ARG:HG2	2.60	0.42
4:k:127:LEU:HB2	4:k:132:LEU:O	2.19	0.42
3:g:174:ASN:O	3:g:237:ARG:NH1	2.52	0.42
3:i:160:GLN:HB3	3:i:163:ARG:NH1	2.34	0.42
4:n:91:THR:HG23	4:n:315:GLN:HE22	1.83	0.42
1:z:419:PHE:CG	1:z:1353:PRO:HG3	2.55	0.42
1:A:900:ASN:HD22	2:Z:99:LYS:HE2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:845:CYS:H	1:N:985:CYS:HB2	1.84	0.42
1:P:259:LEU:O	1:P:262:MET:N	2.53	0.42
1:P:454:PRO:HB3	1:P:1357:SER:OG	2.20	0.42
1:Q:848:MET:HE3	1:Q:848:MET:HB3	1.91	0.42
1:R:275:ILE:HG13	1:R:276:THR:N	2.31	0.42
1:S:347:LEU:O	1:S:348:LEU:HG	2.20	0.42
1:S:470:THR:OG1	1:S:471:LEU:N	2.52	0.42
1:T:149:SER:OG	1:T:150:GLU:N	2.52	0.42
1:T:564:ASP:OD2	1:T:1022:ARG:NH1	2.51	0.42
1:T:1035:ASP:C	1:T:1037:ASN:H	2.27	0.42
1:U:54:ILE:HG22	1:U:56:SER:H	1.85	0.42
1:U:205:PRO:HA	1:U:1316:LYS:HD3	2.01	0.42
1:U:238:VAL:HG23	1:U:239:CYS:H	1.85	0.42
1:U:447:GLN:O	1:U:449:PRO:HD3	2.20	0.42
1:U:611:ARG:O	1:U:615:LEU:HD12	2.19	0.42
1:U:766:ALA:O	1:U:771:PRO:HD3	2.20	0.42
1:U:1070:THR:OG1	1:U:1207:VAL:HB	2.19	0.42
1:U:1089:SER:HB3	1:U:1126:THR:OG1	2.20	0.42
1:B:59:ASN:C	1:B:61:LEU:H	2.28	0.42
1:B:1177:ASN:N	1:B:1177:ASN:OD1	2.52	0.42
1:B:1346:LEU:HG	1:B:1347:PHE:CD1	2.55	0.42
2:H:30:VAL:HA	2:H:33:ILE:HG12	2.02	0.42
1:E:156:SER:OG	1:E:157:ASN:N	2.52	0.42
1:E:409:TYR:HD1	1:E:410:PRO:HD2	1.82	0.42
1:E:1087:ARG:HG2	1:E:1088:ALA:N	2.35	0.42
1:E:1195:GLY:HA2	1:F:1234:MET:HG3	2.02	0.42
1:F:500:ARG:HA	1:F:500:ARG:HD3	1.77	0.42
1:F:658:CYS:SG	2:K:82:MET:HG3	2.60	0.42
1:F:985:CYS:HG	1:F:988:HIS:CE1	2.35	0.42
1:G:1251:SER:OG	1:G:1252:ASP:N	2.53	0.42
1:G:1281:ASN:OD1	1:G:1284:GLY:HA3	2.19	0.42
3:e:438:THR:HG22	3:e:477:THR:O	2.20	0.42
4:j:200:ALA:HA	4:j:203:THR:HG22	2.01	0.42
3:f:247:GLN:HB2	3:f:334:GLU:HG3	2.01	0.42
4:p:177:VAL:HG11	4:p:184:ARG:HD3	2.02	0.42
4:p:251:GLN:C	4:p:252:LEU:HD22	2.45	0.42
3:g:204:CYS:O	3:g:205:ARG:HD2	2.20	0.42
3:g:247:GLN:HB2	3:g:334:GLU:HG3	2.02	0.42
4:l:112:ILE:HG21	4:l:139:THR:HB	2.01	0.42
3:h:426:LEU:HD11	4:m:227:LEU:HD21	2.02	0.42
4:r:202:ARG:HA	4:r:205:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:1229:SER:HA	1:z:1233:TYR:HA	2.02	0.42
1:A:253:ARG:HB3	1:A:253:ARG:NH1	2.34	0.42
1:A:536:HIS:CG	1:A:537:TRP:N	2.88	0.42
1:A:798:ASP:N	1:A:798:ASP:OD1	2.52	0.42
2:D:99:LYS:O	1:M:899:HIS:NE2	2.47	0.42
2:V:46:HIS:HA	2:V:50:ILE:HD11	2.02	0.42
1:O:115:MET:HE1	1:O:125:ASP:O	2.19	0.42
1:P:211:SER:HA	1:P:265:CYS:SG	2.60	0.42
1:P:734:GLU:OE1	1:P:769:ARG:NH1	2.52	0.42
1:P:1172:SER:HA	1:Q:551:SER:OG	2.20	0.42
1:Q:85:LEU:HD23	1:Q:85:LEU:HA	1.87	0.42
1:Q:527:TRP:C	1:Q:529:ASP:H	2.28	0.42
1:Q:749:ILE:HD11	1:Q:762:ARG:HE	1.85	0.42
2:Z:52:ASP:OD1	2:Z:55:SER:HB2	2.19	0.42
1:R:90:ALA:O	1:R:1089:SER:N	2.51	0.42
1:R:310:ALA:HB1	1:R:379:ARG:HD2	2.01	0.42
1:R:520:MET:SD	1:R:992:LEU:HB3	2.59	0.42
1:R:996:THR:HG22	1:R:999:ARG:HE	1.85	0.42
1:S:83:LEU:HD23	1:S:83:LEU:HA	1.78	0.42
1:S:234:LEU:HA	1:S:234:LEU:HD23	1.83	0.42
1:S:516:LEU:HD23	1:S:516:LEU:HA	1.84	0.42
1:S:655:ARG:NE	1:S:805:ARG:HE	2.18	0.42
1:T:185:LEU:HD23	1:T:185:LEU:HA	1.84	0.42
1:T:254:LEU:O	1:T:258:TYR:HD1	2.02	0.42
1:T:286:ASP:O	1:T:1087:ARG:HB2	2.20	0.42
1:U:89:VAL:HG12	1:U:277:HIS:ND1	2.35	0.42
1:U:197:LEU:HD23	1:U:197:LEU:HA	1.90	0.42
1:U:405:THR:HG21	1:B:116:ILE:HG13	2.00	0.42
1:U:557:PHE:O	1:U:559:LEU:HD12	2.20	0.42
1:U:594:ILE:HD11	1:U:1047:TYR:HD1	1.85	0.42
1:U:644:TYR:CZ	1:U:958:MET:HG2	2.55	0.42
1:B:564:ASP:OD1	1:B:564:ASP:N	2.50	0.42
1:B:753:LEU:HG	1:B:755:ASP:O	2.20	0.42
1:B:834:TYR:HE1	1:B:980:ASN:HD21	1.68	0.42
2:H:92:LEU:HA	2:I:54:ARG:HD3	2.02	0.42
1:C:978:PRO:HB3	1:C:984:ALA:HB2	2.01	0.42
1:E:79:PHE:CZ	1:E:182:ARG:HD3	2.54	0.42
1:E:194:ASP:OD2	1:E:402:TYR:OH	2.34	0.42
1:F:242:MET:HG2	1:F:243:PHE:CE2	2.55	0.42
1:F:298:GLN:HA	1:F:301:GLN:NE2	2.35	0.42
1:F:893:SER:O	1:F:896:VAL:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:10:VAL:HG23	2:K:11:PHE:CD1	2.54	0.42
1:G:644:TYR:CZ	1:G:958:MET:HG3	2.55	0.42
1:G:1273:ASP:OD1	1:G:1274:ARG:N	2.52	0.42
2:L:86:THR:HG23	2:L:90:THR:HB	2.01	0.42
4:o:159:ARG:CD	4:o:192:GLN:HB3	2.49	0.42
3:i:426:LEU:HD21	4:n:227:LEU:HD11	2.01	0.42
1:z:1282:LEU:HD23	1:z:1282:LEU:O	2.19	0.42
1:A:836:VAL:O	1:A:840:PHE:HD1	2.02	0.42
1:A:958:MET:C	1:A:959:MET:HE2	2.45	0.42
2:D:82:MET:SD	2:D:82:MET:N	2.89	0.42
1:N:289:LEU:HD13	1:N:1084:TYR:HB2	2.02	0.42
1:N:1073:ARG:NH2	1:N:1141:MET:HB3	2.34	0.42
2:W:93:ARG:O	2:W:93:ARG:HG3	2.20	0.42
2:W:101:THR:HG1	1:P:899:HIS:CE1	2.37	0.42
1:P:807:VAL:HB	2:Y:83:PHE:CD2	2.55	0.42
2:Z:31:ALA:HA	2:Z:34:ARG:HE	1.85	0.42
2:Z:71:ASN:OD1	2:Z:71:ASN:N	2.53	0.42
1:R:961:TYR:HB2	1:R:988:HIS:CG	2.55	0.42
1:S:231:LEU:HD23	1:S:231:LEU:HA	1.81	0.42
1:T:416:ASP:HB3	1:T:1074:GLN:HE21	1.85	0.42
1:T:550:PRO:HG3	1:T:1259:ALA:HB2	2.02	0.42
1:T:846:CYS:O	1:T:958:MET:N	2.52	0.42
1:U:70:LEU:HA	1:U:70:LEU:HD23	1.77	0.42
1:U:117:ALA:HB2	1:G:187:SER:HB2	2.02	0.42
1:U:141:LEU:N	1:U:1114:GLN:O	2.44	0.42
1:U:1233:TYR:HB2	1:U:1244:ILE:HD13	2.02	0.42
1:U:1372:ALA:O	1:U:1381:LEU:HD22	2.20	0.42
1:B:751:PRO:HG3	1:B:983:PHE:HE2	1.85	0.42
1:B:856:TYR:HB3	1:B:917:MET:HE1	2.01	0.42
1:B:910:LEU:HA	1:B:913:LEU:HD23	2.02	0.42
1:B:912:THR:O	1:B:915:GLU:HB3	2.20	0.42
1:C:276:THR:OG1	1:C:277:HIS:N	2.53	0.42
1:C:285:VAL:HG21	1:C:393:PHE:HE1	1.85	0.42
1:C:489:THR:O	1:C:493:LEU:N	2.53	0.42
1:C:992:LEU:HD12	1:C:992:LEU:HA	1.90	0.42
1:E:230:LEU:HA	1:E:233:ASP:OD2	2.19	0.42
1:E:276:THR:OG1	1:E:277:HIS:N	2.52	0.42
1:E:655:ARG:HA	1:E:658:CYS:SG	2.60	0.42
1:E:1338:GLU:H	1:E:1338:GLU:CD	2.28	0.42
1:F:463:ASP:HB2	1:F:1198:ARG:NH2	2.33	0.42
1:F:463:ASP:HB2	1:F:1198:ARG:HH12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:752:ILE:HG13	1:F:957:ILE:HG13	2.02	0.42
1:F:832:TYR:CD1	1:F:836:VAL:HB	2.54	0.42
2:L:89:MET:HB2	2:L:93:ARG:HH21	1.84	0.42
3:e:174:ASN:O	3:e:237:ARG:NH1	2.52	0.42
4:o:149:ILE:HA	4:o:152:VAL:HG12	2.02	0.42
3:f:131:PHE:HD2	3:f:197:SER:HB2	1.83	0.42
3:f:305:TRP:O	3:f:341:ALA:HA	2.19	0.42
4:k:91:THR:O	4:k:91:THR:OG1	2.35	0.42
4:k:126:ARG:NH2	4:k:128:ASP:HB3	2.35	0.42
3:g:356:PHE:CE2	3:g:357:LEU:HD21	2.55	0.42
4:l:210:PHE:CE1	4:q:240:ILE:HG22	2.54	0.42
4:q:126:ARG:HA	4:q:133:GLU:OE2	2.20	0.42
3:h:159:THR:HB	4:r:266:ARG:NH2	2.35	0.42
3:h:204:CYS:O	3:h:205:ARG:HD2	2.20	0.42
4:r:215:GLY:HA3	4:r:269:PRO:HB2	2.02	0.42
4:n:155:ARG:NE	4:n:187:LEU:HD22	2.35	0.42
1:z:177:MET:HA	1:z:180:ASN:HD21	1.85	0.42
1:A:468:GLN:O	1:A:1143:ASN:ND2	2.50	0.41
1:M:134:LYS:NZ	1:M:1120:ASP:HB2	2.35	0.41
1:N:81:ARG:HB2	1:N:84:GLU:HG3	2.01	0.41
1:N:683:ASN:HD21	1:N:754:TRP:HE1	1.67	0.41
1:N:725:THR:HG22	1:N:740:ASN:ND2	2.35	0.41
1:N:1026:ALA:HA	1:N:1029:VAL:HG22	2.00	0.41
1:O:77:LEU:HD13	1:O:77:LEU:HA	1.95	0.41
1:O:243:PHE:CD1	1:O:1134:LEU:HB2	2.55	0.41
1:O:1237:ARG:NH2	1:O:1307:THR:O	2.49	0.41
1:Q:141:LEU:HD12	1:Q:1116:ARG:NE	2.35	0.41
1:Q:793:ASN:HB3	1:Q:922:GLU:OE2	2.20	0.41
1:R:398:GLU:HA	1:R:402:TYR:HB2	2.01	0.41
1:R:727:GLN:HB3	1:S:1005:MET:HG3	2.02	0.41
2:b:47:ARG:HG3	2:b:48:VAL:H	1.85	0.41
1:U:392:VAL:HG11	1:U:1084:TYR:HE1	1.84	0.41
1:U:792:HIS:NE2	1:U:922:GLU:OE2	2.52	0.41
1:U:848:MET:HG3	1:U:958:MET:SD	2.60	0.41
1:U:1219:ARG:HD3	1:U:1382:ILE:HD12	2.02	0.41
1:B:1035:ASP:OD1	1:B:1035:ASP:N	2.41	0.41
1:B:1275:LEU:HD12	1:B:1275:LEU:HA	1.81	0.41
1:C:386:ILE:O	1:C:386:ILE:HG13	2.19	0.41
1:C:406:ARG:NH2	1:E:125:ASP:OD1	2.53	0.41
1:C:519:GLN:OE1	1:C:977:VAL:HA	2.20	0.41
1:C:660:LEU:O	1:C:663:LEU:HG	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:688:MET:HE2	1:C:688:MET:HB3	1.92	0.41
1:E:316:THR:HG21	1:E:375:PRO:HG3	2.02	0.41
1:E:582:GLU:OE1	1:E:582:GLU:N	2.52	0.41
1:E:1089:SER:O	1:E:1089:SER:OG	2.38	0.41
1:F:209:LEU:HD21	1:F:1346:LEU:HD21	2.02	0.41
1:F:238:VAL:HG11	1:F:1347:PHE:CE2	2.53	0.41
1:F:285:VAL:HG11	1:F:393:PHE:CE1	2.55	0.41
1:F:593:ILE:HG13	1:F:594:ILE:H	1.85	0.41
1:F:739:LEU:HG	1:F:1049:LYS:NZ	2.34	0.41
1:F:1194:ALA:HB3	1:G:1244:ILE:HD13	2.02	0.41
1:G:210:LEU:O	1:G:213:ILE:HG22	2.20	0.41
1:G:538:VAL:O	1:G:540:GLU:N	2.52	0.41
1:G:1240:ASP:OD1	1:G:1240:ASP:N	2.51	0.41
4:o:220:LEU:HD23	4:o:220:LEU:HA	1.85	0.41
3:f:305:TRP:HZ2	3:f:357:LEU:HD21	1.85	0.41
4:p:89:VAL:HG23	4:p:90:GLY:N	2.34	0.41
3:g:310:ASP:CB	3:g:357:LEU:HD13	2.44	0.41
3:g:354:ILE:HG22	3:g:358:LEU:HD13	2.01	0.41
4:l:156:ALA:O	4:l:160:THR:OG1	2.30	0.41
3:h:204:CYS:CB	3:h:235:LEU:HD23	2.44	0.41
4:m:46:ALA:HB2	4:m:132:LEU:HD13	2.02	0.41
4:r:31:ILE:HG13	4:r:72:ALA:HB3	2.01	0.41
1:z:285:VAL:HG21	1:z:384:LEU:HD13	2.02	0.41
1:A:65:GLN:NE2	1:M:101:TYR:O	2.53	0.41
1:A:1302:ASN:OD1	1:A:1303:THR:N	2.53	0.41
1:M:81:ARG:HD3	1:M:81:ARG:HA	1.76	0.41
1:M:718:ARG:HE	1:M:827:ILE:HG21	1.85	0.41
1:M:995:MET:HE3	1:M:995:MET:HB3	1.88	0.41
1:M:1144:THR:HB	1:M:1202:SER:O	2.21	0.41
1:P:312:ASP:OD1	1:P:379:ARG:NE	2.54	0.41
1:P:687:LEU:O	1:P:691:THR:HG23	2.20	0.41
1:P:688:MET:HG2	1:P:825:TRP:CZ3	2.54	0.41
1:P:939:THR:C	1:P:941:THR:H	2.29	0.41
1:Q:792:HIS:HE1	2:Z:55:SER:HA	1.85	0.41
1:Q:911:LEU:HD11	2:Z:69:ARG:HB3	2.02	0.41
1:R:507:TYR:CZ	1:R:580:PRO:HB3	2.55	0.41
1:R:523:PHE:O	1:R:523:PHE:CG	2.73	0.41
1:R:644:TYR:CZ	1:R:958:MET:HG3	2.55	0.41
1:R:794:PHE:CZ	1:R:856:TYR:HD2	2.38	0.41
1:R:1091:SER:OG	1:R:1121:LEU:HD11	2.20	0.41
1:S:203:LYS:HB3	1:S:203:LYS:HE2	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:939:THR:O	1:S:942:THR:N	2.53	0.41
1:S:1310:ARG:HB2	1:S:1313:MET:HG2	2.02	0.41
2:b:25:ALA:O	2:b:29:PRO:HD3	2.20	0.41
1:U:739:LEU:HD23	1:U:739:LEU:HA	1.85	0.41
1:U:874:PRO:HG3	1:U:881:ARG:HG2	2.02	0.41
1:U:1289:TYR:O	1:U:1291:PRO:HD3	2.20	0.41
1:B:522:ARG:HD2	1:B:578:GLN:CD	2.45	0.41
1:B:755:ASP:OD2	1:B:820:HIS:NE2	2.53	0.41
1:C:339:GLY:O	1:C:343:VAL:HG22	2.19	0.41
1:C:855:LEU:HD12	1:C:855:LEU:HA	1.86	0.41
1:E:251:GLU:OE1	1:E:251:GLU:N	2.53	0.41
1:E:312:ASP:OD1	1:E:379:ARG:NH1	2.53	0.41
1:E:753:LEU:HD13	1:E:758:ALA:HB3	2.01	0.41
1:E:989:LEU:O	1:E:995:MET:HG2	2.19	0.41
1:G:322:LEU:HD23	1:G:322:LEU:O	2.19	0.41
1:G:1215:LEU:HD23	1:G:1215:LEU:H	1.85	0.41
3:e:204:CYS:O	3:e:205:ARG:HD2	2.20	0.41
3:e:308:ASP:OD2	3:e:319:LYS:NZ	2.52	0.41
4:j:290:THR:OG1	4:j:291:ARG:N	2.53	0.41
3:h:174:ASN:O	3:h:237:ARG:NH1	2.52	0.41
3:i:227:GLY:O	3:i:228:CYS:HB2	2.20	0.41
1:z:130:ASN:OD1	1:z:131:TYR:N	2.45	0.41
1:z:279:ASN:OD1	1:z:283:ARG:N	2.53	0.41
1:A:885:HIS:CD2	1:A:886:ALA:H	2.38	0.41
2:D:36:LEU:HD12	2:D:36:LEU:HA	1.86	0.41
1:M:508:VAL:HG21	1:M:948:TYR:CD2	2.55	0.41
2:V:12:ASP:HB2	2:V:15:ASN:CB	2.50	0.41
1:N:139:ARG:HB3	1:N:195:GLN:NE2	2.35	0.41
1:N:286:ASP:O	1:N:1087:ARG:HB2	2.21	0.41
2:W:67:ARG:HA	2:W:67:ARG:HH11	1.84	0.41
1:P:423:MET:HE1	1:P:1206:PHE:CE2	2.55	0.41
1:P:631:LYS:HD2	1:P:1036:PHE:CZ	2.55	0.41
1:Q:710:LEU:HD23	1:Q:710:LEU:HA	1.81	0.41
1:Q:961:TYR:CE2	1:Q:963:ALA:HB2	2.56	0.41
1:Q:969:ALA:HB3	1:Q:972:THR:HB	2.02	0.41
1:R:1214:ASP:OD1	1:R:1214:ASP:N	2.50	0.41
1:T:262:MET:HE2	1:T:1128:VAL:HG23	2.02	0.41
1:T:615:LEU:HD23	1:T:615:LEU:HA	1.82	0.41
1:U:406:ARG:N	1:U:406:ARG:HD2	2.35	0.41
1:U:461:ASN:OD1	1:U:462:LYS:N	2.41	0.41
2:d:23:ALA:HA	2:d:67:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:837:ILE:O	1:B:841:SER:HB3	2.21	0.41
1:B:1225:ARG:HG3	1:B:1296:PHE:CE1	2.55	0.41
1:B:1252:ASP:OD1	1:B:1253:VAL:N	2.53	0.41
1:C:1237:ARG:HD2	1:C:1237:ARG:HA	1.91	0.41
1:E:574:LEU:HD12	1:E:575:PRO:HD2	2.02	0.41
1:E:1078:ALA:HB3	1:E:1135:ARG:HB2	2.02	0.41
1:F:653:ASN:HB3	1:F:656:ASN:OD1	2.20	0.41
1:F:687:LEU:O	1:F:691:THR:HG23	2.21	0.41
1:F:833:TYR:HD1	1:F:837:ILE:HD12	1.86	0.41
1:F:1140:ASP:N	1:F:1200:GLN:O	2.50	0.41
1:F:1394:LEU:HD23	1:F:1394:LEU:HA	1.89	0.41
1:G:169:LEU:HD12	1:z:98:GLU:HG2	2.03	0.41
4:j:91:THR:HA	4:j:92:PRO:HD3	1.84	0.41
4:j:102:SER:OG	4:j:104:VAL:HG12	2.20	0.41
4:p:98:ILE:O	4:p:311:THR:OG1	2.38	0.41
4:q:75:THR:HG21	4:q:85:HIS:CD2	2.55	0.41
4:q:202:ARG:HA	4:q:205:VAL:HG22	2.02	0.41
3:h:169:LEU:HD21	3:h:173:ARG:HD3	2.03	0.41
4:n:145:MET:HE2	4:n:290:THR:HG21	2.03	0.41
1:z:397:LEU:HD23	1:z:409:TYR:CE1	2.55	0.41
1:z:1082:LEU:C	1:z:1083:LEU:HD22	2.46	0.41
1:A:427:GLN:OE1	1:A:432:ASP:HB3	2.21	0.41
1:A:784:LEU:HD12	1:A:785:HIS:N	2.35	0.41
1:N:704:ILE:HD12	1:N:704:ILE:HA	1.94	0.41
1:O:509:ALA:O	1:O:1012:PHE:HA	2.21	0.41
1:O:655:ARG:NH2	1:O:805:ARG:HH11	2.18	0.41
1:P:25:ILE:HG12	1:P:51:PHE:HE1	1.84	0.41
1:P:54:ILE:H	1:P:54:ILE:HG12	1.69	0.41
1:P:855:LEU:HA	1:P:855:LEU:HD23	1.74	0.41
1:R:316:THR:OG1	1:R:317:TYR:N	2.53	0.41
1:R:848:MET:HG2	1:R:976:PRO:HB3	2.02	0.41
1:R:1048:PHE:HB3	1:R:1058:GLN:NE2	2.35	0.41
1:R:1205:GLU:HG3	1:R:1291:PRO:HD2	2.02	0.41
1:R:1231:MET:HE3	1:R:1310:ARG:NE	2.35	0.41
1:R:1257:ASP:OD1	1:R:1257:ASP:N	2.45	0.41
1:S:502:CYS:SG	1:S:531:MET:HA	2.60	0.41
1:T:91:CYS:HB3	1:T:196:LEU:HD21	2.02	0.41
1:T:259:LEU:HD23	1:T:259:LEU:HA	1.91	0.41
1:T:1377:LEU:HD12	1:T:1377:LEU:HA	1.93	0.41
1:B:923:ARG:HG3	1:B:925:THR:HG22	2.02	0.41
1:B:1150:PHE:CD1	1:B:1178:PRO:HG3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1176:LEU:HD11	1:B:1288:ILE:HD11	2.02	0.41
2:H:106:ILE:HG21	1:C:887:HIS:CE1	2.55	0.41
1:C:823:ARG:HH22	1:E:1001:VAL:HG12	1.86	0.41
1:C:1152:ARG:HD3	4:p:238:LEU:HD22	2.02	0.41
1:E:717:LEU:O	1:E:720:THR:HG22	2.21	0.41
1:F:561:PRO:HB3	1:F:1264:TRP:CE2	2.55	0.41
1:F:778:ARG:NH1	1:F:797:ARG:O	2.49	0.41
1:G:231:LEU:HD11	1:G:1232:LEU:HD12	2.02	0.41
1:G:884:LEU:HD23	1:G:884:LEU:O	2.20	0.41
3:f:237:ARG:HA	3:f:237:ARG:HD3	1.74	0.41
4:k:13:GLY:O	4:k:14:GLU:HG2	2.20	0.41
1:z:386:ILE:HG22	1:z:391:LEU:HG	2.03	0.41
1:z:1227:ARG:N	1:z:1234:MET:SD	2.93	0.41
1:A:781:TYR:HD2	1:A:801:LEU:HD13	1.84	0.41
1:A:1150:PHE:CE1	1:A:1178:PRO:HB3	2.55	0.41
1:A:1260:THR:OG1	1:A:1261:LEU:N	2.53	0.41
2:D:27:TYR:C	2:D:29:PRO:HD2	2.44	0.41
1:M:303:ILE:O	1:M:304:LEU:HD23	2.20	0.41
1:M:600:VAL:C	1:M:602:LEU:H	2.28	0.41
1:N:171:ILE:O	1:N:175:GLN:HG2	2.21	0.41
1:N:274:ARG:NE	1:N:275:ILE:H	2.18	0.41
1:N:322:LEU:HD23	1:N:322:LEU:O	2.21	0.41
1:O:35:VAL:C	1:O:36:LEU:HD23	2.45	0.41
1:O:240:ALA:C	1:O:247:ARG:HH22	2.24	0.41
1:P:52:LYS:HE3	1:P:52:LYS:HB3	1.91	0.41
1:P:285:VAL:HG11	1:P:393:PHE:HE1	1.84	0.41
1:P:320:MET:HE2	1:P:320:MET:HB3	1.87	0.41
1:P:412:ILE:HG13	1:P:412:ILE:O	2.20	0.41
1:P:1000:ARG:HD2	1:P:1000:ARG:HA	1.75	0.41
1:Q:337:VAL:HB	1:Q:340:MET:CG	2.50	0.41
1:Q:885:HIS:HB3	1:Q:888:GLN:NE2	2.35	0.41
1:Q:1252:ASP:OD1	1:Q:1253:VAL:N	2.54	0.41
1:Q:1320:SER:O	1:Q:1332:ARG:NH1	2.51	0.41
2:Z:8:ARG:N	2:Z:36:LEU:HD11	2.34	0.41
1:R:627:ILE:HG23	1:R:1036:PHE:CE2	2.56	0.41
1:R:1048:PHE:HB3	1:R:1058:GLN:HE22	1.86	0.41
1:R:1216:GLN:NE2	1:R:1219:ARG:HD2	2.35	0.41
1:R:1293:PHE:CE1	1:R:1297:THR:HG21	2.56	0.41
2:a:9:VAL:HG23	2:a:10:VAL:HG13	2.00	0.41
1:S:687:LEU:O	1:S:691:THR:HG23	2.21	0.41
1:S:915:GLU:OE2	2:b:79:ARG:NH1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:174:ILE:HD12	1:U:174:ILE:HA	1.88	0.41
1:U:778:ARG:HG3	1:U:799:ASN:ND2	2.30	0.41
1:U:1208:ALA:O	1:U:1262:ASN:ND2	2.51	0.41
1:B:512:THR:O	1:B:513:GLU:HG3	2.21	0.41
1:C:22:LEU:HD23	1:C:22:LEU:HA	1.84	0.41
1:C:753:LEU:HD23	1:C:753:LEU:H	1.86	0.41
1:C:1076:ARG:NH1	1:C:1324:THR:HG22	2.35	0.41
1:E:207:LEU:N	1:E:1129:CYS:O	2.54	0.41
1:E:461:ASN:OD1	1:E:462:LYS:N	2.48	0.41
1:E:501:GLN:HG2	1:E:502:CYS:H	1.86	0.41
1:E:880:PRO:HA	1:E:885:HIS:CD2	2.55	0.41
2:J:91:TRP:CD1	2:J:91:TRP:H	2.39	0.41
1:F:558:GLU:N	1:F:558:GLU:OE1	2.54	0.41
1:F:1140:ASP:OD2	1:F:1198:ARG:NE	2.44	0.41
1:G:89:VAL:HG22	1:G:277:HIS:CD2	2.56	0.41
1:G:197:LEU:O	1:G:201:LEU:HD23	2.20	0.41
1:G:1010:PRO:HG2	1:G:1013:LEU:HD13	2.01	0.41
1:G:1092:TYR:CD1	1:G:1118:HIS:CE1	3.09	0.41
1:G:1214:ASP:OD1	1:G:1214:ASP:N	2.49	0.41
1:G:1358:ASP:HB3	1:G:1361:MET:HG3	2.02	0.41
4:o:9:VAL:O	4:o:9:VAL:HG12	2.20	0.41
4:o:100:ASN:HB2	4:o:106:LEU:HD11	2.02	0.41
4:p:23:LEU:HD23	4:p:23:LEU:HA	1.90	0.41
4:l:25:LYS:HB3	4:l:25:LYS:HE3	1.89	0.41
4:l:47:LEU:HA	4:l:50:TYR:HD1	1.86	0.41
4:q:283:ARG:O	4:q:287:THR:HG22	2.20	0.41
3:h:247:GLN:HB2	3:h:334:GLU:HG3	2.02	0.41
3:h:482:TYR:CD1	3:h:483:TYR:HD1	2.38	0.41
4:m:96:LEU:HA	4:m:96:LEU:HD12	1.81	0.41
3:i:135:ILE:HD13	3:i:135:ILE:HA	1.96	0.41
4:n:222:LEU:HD23	4:n:222:LEU:HA	1.76	0.41
4:n:274:ILE:O	4:n:278:ILE:HG22	2.20	0.41
4:s:4:PRO:HA	4:s:91:THR:OG1	2.19	0.41
4:s:108:ASN:OD1	4:s:109:GLY:N	2.53	0.41
1:z:402:TYR:CD2	1:z:409:TYR:HD1	2.38	0.41
1:z:1163:THR:N	1:z:1164:GLU:OE1	2.52	0.41
1:A:1073:ARG:NH2	1:A:1141:MET:HB3	2.36	0.41
1:A:1134:LEU:HD23	1:A:1391:CYS:HB2	2.02	0.41
1:M:30:ILE:HD12	1:M:31:PRO:HD2	2.03	0.41
1:N:63:SER:O	1:N:63:SER:OG	2.36	0.41
1:N:469:LEU:HD13	1:N:1143:ASN:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1093:PHE:CZ	1:O:70:LEU:HD13	2.56	0.41
1:O:1374:GLU:HG3	1:O:1383:ARG:HH21	1.85	0.41
1:P:642:ILE:HA	1:P:645:MET:HE3	2.03	0.41
2:Y:40:GLY:O	2:Y:43:GLN:NE2	2.54	0.41
1:Q:231:LEU:HD23	1:Q:231:LEU:HA	1.76	0.41
1:Q:458:PHE:HB3	1:Q:466:LEU:HD11	2.02	0.41
1:Q:757:ASP:OD1	1:Q:819:PRO:HA	2.21	0.41
2:Z:52:ASP:O	2:Z:56:ILE:HG12	2.21	0.41
1:R:574:LEU:HD23	1:R:948:TYR:HE1	1.85	0.41
1:S:277:HIS:ND1	1:S:313:VAL:HG12	2.35	0.41
1:S:995:MET:HE3	1:S:1000:ARG:HB2	2.01	0.41
1:T:85:LEU:HD23	1:T:85:LEU:HA	1.90	0.41
1:T:251:GLU:OE1	1:T:251:GLU:HA	2.21	0.41
1:T:434:TYR:O	1:T:1377:LEU:N	2.46	0.41
1:U:221:HIS:ND1	1:U:221:HIS:O	2.54	0.41
1:U:595:ASN:HD21	1:U:611:ARG:HH12	1.67	0.41
1:U:1065:PRO:O	1:U:1067:ILE:HG12	2.21	0.41
1:B:70:LEU:HD13	1:C:1093:PHE:CZ	2.55	0.41
1:B:287:GLY:N	1:B:392:VAL:HG12	2.35	0.41
1:B:536:HIS:CD2	1:B:554:ARG:HB2	2.56	0.41
1:B:1202:SER:OG	1:B:1329:GLN:OE1	2.36	0.41
1:C:1054:SER:HB2	1:C:1058:GLN:NE2	2.35	0.41
1:C:1313:MET:HA	1:C:1316:LYS:HE3	2.01	0.41
1:E:68:ILE:HD12	1:F:336:ALA:O	2.21	0.41
1:E:461:ASN:HB3	1:E:465:ILE:HG22	2.02	0.41
1:E:801:LEU:HD13	1:E:953:TYR:CZ	2.55	0.41
1:E:929:VAL:HG23	1:E:949:ASP:HB2	2.02	0.41
1:E:985:CYS:SG	1:E:987:GLU:HG2	2.61	0.41
1:F:687:LEU:HD12	1:F:687:LEU:HA	1.83	0.41
1:G:675:SER:HB3	1:G:677:ARG:NH1	2.36	0.41
1:G:769:ARG:HB3	1:G:932:ALA:HB3	2.03	0.41
4:j:9:VAL:HG23	4:j:40:ALA:O	2.20	0.41
4:o:305:VAL:HG11	4:o:311:THR:HG22	2.02	0.41
3:f:354:ILE:HD12	3:f:355:GLY:N	2.35	0.41
4:p:181:ASN:ND2	4:p:181:ASN:O	2.53	0.41
3:g:475:THR:HG22	3:g:477:THR:CG2	2.48	0.41
4:r:14:GLU:H	4:r:14:GLU:CD	2.28	0.41
3:i:216:ASP:O	3:i:220:THR:HG22	2.21	0.41
4:s:52:ILE:HG23	4:s:53:ASN:N	2.35	0.41
1:A:279:ASN:OD1	1:A:283:ARG:N	2.53	0.41
1:A:324:GLY:O	1:A:327:LEU:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:300:LEU:HD23	1:M:300:LEU:HA	1.89	0.41
1:M:877:PRO:O	1:M:885:HIS:ND1	2.37	0.41
1:N:879:ASP:O	1:N:885:HIS:ND1	2.54	0.41
1:O:490:LEU:HD23	1:O:490:LEU:HA	1.87	0.41
1:O:600:VAL:C	1:O:602:LEU:H	2.28	0.41
1:O:650:ILE:HG22	1:O:652:GLY:H	1.85	0.41
1:O:842:ARG:HE	1:O:1036:PHE:HE1	1.68	0.41
1:O:848:MET:HE3	1:O:958:MET:SD	2.61	0.41
1:O:857:PRO:HG3	2:X:58:THR:HG22	2.03	0.41
1:O:1143:ASN:OD1	1:O:1143:ASN:N	2.53	0.41
1:P:68:ILE:HG23	1:P:70:LEU:HG	2.02	0.41
1:P:880:PRO:HB3	1:P:885:HIS:HD2	1.85	0.41
1:Q:790:ALA:O	1:Q:792:HIS:N	2.52	0.41
1:Q:961:TYR:CD2	1:Q:963:ALA:HB2	2.56	0.41
1:R:1139:THR:OG1	1:R:1139:THR:O	2.39	0.41
1:R:1274:ARG:HE	1:R:1274:ARG:HB2	1.68	0.41
1:S:876:THR:HG23	1:S:878:GLU:HG2	2.02	0.41
1:S:1091:SER:HB3	1:S:1121:LEU:HD11	2.03	0.41
2:b:99:LYS:NZ	1:T:900:ASN:HB3	2.35	0.41
1:T:561:PRO:HB3	1:T:1264:TRP:CZ3	2.55	0.41
1:U:485:ASP:OD1	1:U:485:ASP:N	2.52	0.41
1:U:976:PRO:CG	1:U:989:LEU:HA	2.51	0.41
1:B:1056:THR:O	1:B:1060:ARG:NH2	2.54	0.41
1:B:1267:GLN:C	1:B:1270:SER:HG	2.24	0.41
1:C:1316:LYS:HE2	1:C:1316:LYS:HB3	1.88	0.41
1:E:147:ILE:O	1:E:1107:GLY:HA3	2.21	0.41
1:E:297:ARG:NH1	1:E:297:ARG:HB2	2.34	0.41
1:E:395:GLU:OE2	1:E:396:ALA:N	2.54	0.41
1:E:782:GLN:O	1:E:800:VAL:HA	2.21	0.41
1:E:803:HIS:HE1	1:E:817:ILE:HD12	1.86	0.41
1:F:222:LEU:HB3	1:F:226:ALA:HB3	2.03	0.41
1:F:245:MET:HB2	1:F:1132:ALA:O	2.21	0.41
1:G:211:SER:HA	1:G:265:CYS:SG	2.61	0.41
1:G:436:ARG:HG3	1:G:437:HIS:CE1	2.56	0.41
1:G:692:THR:HG23	1:G:693:TYR:HD1	1.86	0.41
1:G:855:LEU:HD12	1:G:855:LEU:HA	1.92	0.41
3:e:216:ASP:O	3:e:220:THR:HG22	2.20	0.41
3:e:332:GLN:C	3:e:333:ARG:HG3	2.45	0.41
4:o:75:THR:HG23	4:o:310:ARG:NH2	2.35	0.41
3:f:441:GLY:C	3:f:442:THR:CG2	2.91	0.41
4:k:10:LEU:HD12	4:k:81:LYS:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:p:47:LEU:HD12	4:p:50:TYR:HB2	2.03	0.41
4:p:100:ASN:ND2	4:p:307:PRO:HA	2.36	0.41
4:m:209:MET:HE3	4:r:226:LEU:HD21	2.02	0.41
3:i:324:VAL:HG22	3:i:437:TYR:HB2	2.00	0.41
1:z:1210:PRO:HD3	1:z:1263:PRO:HD2	2.03	0.41
1:A:289:LEU:HD12	1:A:289:LEU:HA	1.78	0.41
1:A:419:PHE:HB3	1:A:1353:PRO:HG3	2.02	0.41
1:A:731:HIS:HB2	1:A:739:LEU:HD11	2.02	0.41
1:A:852:TYR:HB2	1:A:922:GLU:O	2.21	0.41
1:A:939:THR:N	1:A:942:THR:HG1	2.17	0.41
1:A:1200:GLN:HE22	1:A:1323:SER:C	2.24	0.41
1:M:1368:GLY:H	1:O:1383:ARG:HH12	1.69	0.41
1:N:190:ARG:HG2	1:N:401:VAL:HG13	2.01	0.41
1:N:306:ILE:H	1:N:306:ILE:HD12	1.85	0.41
1:N:1231:MET:H	1:N:1231:MET:HG3	1.66	0.41
1:N:1289:TYR:HB3	1:N:1329:GLN:O	2.20	0.41
1:P:141:LEU:HD23	1:P:141:LEU:HA	1.82	0.41
1:P:312:ASP:HA	1:P:378:ALA:O	2.21	0.41
1:P:544:ILE:O	1:P:548:ILE:HG12	2.21	0.41
1:P:721:ILE:HD13	1:P:741:ASN:HD22	1.85	0.41
1:P:784:LEU:HB3	1:P:802:ILE:HG22	2.02	0.41
1:P:846:CYS:SG	1:P:847:THR:N	2.93	0.41
1:P:882:HIS:NE2	1:P:884:LEU:HB2	2.35	0.41
1:P:1346:LEU:HD23	1:P:1347:PHE:CZ	2.55	0.41
1:Q:18:ARG:NH1	1:Q:18:ARG:HG3	2.36	0.41
1:Q:203:LYS:HE2	1:Q:203:LYS:HB3	1.95	0.41
1:Q:785:HIS:HE1	1:Q:806:PRO:HD3	1.85	0.41
1:Q:1166:LEU:HD23	1:Q:1166:LEU:HA	1.79	0.41
1:R:58:ASP:OD2	1:R:60:SER:HB3	2.20	0.41
1:R:1029:VAL:HG12	1:R:1043:LEU:HD11	2.02	0.41
2:a:96:VAL:HG21	1:S:897:TYR:CZ	2.56	0.41
1:S:853:ASP:OD1	1:S:854:ARG:HG2	2.21	0.41
2:b:76:THR:HG22	2:b:105:ARG:HA	2.03	0.41
1:T:141:LEU:HD23	1:T:141:LEU:HA	1.86	0.41
1:T:214:ASN:HA	1:T:217:GLN:HG3	2.03	0.41
1:T:690:ILE:HA	1:T:694:LEU:HD13	2.01	0.41
1:T:882:HIS:CD2	1:T:884:LEU:HB2	2.56	0.41
1:T:1073:ARG:NH2	1:T:1141:MET:HB3	2.36	0.41
1:T:1225:ARG:NH1	1:T:1245:MET:HG3	2.36	0.41
1:U:723:ASP:OD1	1:B:1031:HIS:NE2	2.54	0.41
1:B:190:ARG:NH1	1:B:401:VAL:HA	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:554:ARG:O	1:B:554:ARG:CG	2.68	0.41
1:B:739:LEU:O	1:B:1054:SER:HB3	2.21	0.41
1:B:1311:LEU:HD11	1:B:1346:LEU:HD11	2.03	0.41
1:C:401:VAL:HG13	1:C:402:TYR:CD2	2.56	0.41
1:C:469:LEU:HD13	1:C:1143:ASN:HB2	2.02	0.41
1:C:1175:ARG:HD3	1:E:1256:THR:O	2.21	0.41
1:E:488:ALA:HA	1:E:491:VAL:HG22	2.02	0.41
1:E:622:MET:HE3	1:E:622:MET:HB2	1.98	0.41
1:E:695:GLY:HA2	1:E:704:ILE:CD1	2.50	0.41
1:F:69:LEU:HD12	1:G:106:VAL:O	2.21	0.41
1:F:73:TYR:CD1	1:G:109:PHE:HE1	2.38	0.41
1:F:299:LEU:HD13	1:F:304:LEU:HD11	2.02	0.41
1:F:693:TYR:C	1:F:694:LEU:HD12	2.46	0.41
1:G:667:CYS:HA	1:G:903:LEU:HD23	2.03	0.41
3:e:149:SER:OG	4:j:184:ARG:NH2	2.49	0.41
4:j:183:ARG:HD2	4:j:183:ARG:HA	1.87	0.41
4:o:177:VAL:HA	4:o:185:TYR:O	2.21	0.41
3:h:267:ILE:HG12	3:h:268:GLN:N	2.35	0.41
3:h:344:GLN:HE22	4:r:35:THR:HG22	1.85	0.41
4:n:30:ILE:HD11	4:n:98:ILE:HD11	2.02	0.41
4:s:32:THR:HG22	4:s:71:ALA:HA	2.03	0.41
1:z:246:THR:HB	1:z:1391:CYS:SG	2.60	0.41
1:A:501:GLN:HG2	1:A:502:CYS:H	1.86	0.41
1:A:848:MET:HE3	1:A:958:MET:SD	2.61	0.41
1:A:949:ASP:OD1	1:A:949:ASP:N	2.54	0.41
1:A:1148:LEU:HD23	1:A:1148:LEU:HA	1.79	0.41
1:M:212:PRO:HG3	1:M:237:ARG:NH1	2.36	0.41
1:M:499:ASP:O	1:M:501:GLN:HG2	2.21	0.41
1:M:559:LEU:O	1:M:1271:TYR:N	2.54	0.41
1:M:891:PRO:HD2	2:V:34:ARG:NH1	2.36	0.41
2:V:22:GLU:HG2	2:V:23:ALA:N	2.35	0.41
2:V:88:PRO:HB2	2:X:36:LEU:HD21	2.03	0.41
2:V:96:VAL:HG21	1:O:897:TYR:CZ	2.55	0.41
1:N:19:ILE:HA	1:N:22:LEU:HD12	2.03	0.41
1:N:430:SER:HA	1:N:433:ARG:HH21	1.84	0.41
1:N:436:ARG:NE	1:O:1365:ALA:HB2	2.36	0.41
1:N:516:LEU:HB2	1:N:975:TYR:CE1	2.55	0.41
1:N:659:ALA:N	2:W:82:MET:HE1	2.36	0.41
1:N:965:ASP:OD2	1:N:967:THR:OG1	2.32	0.41
1:O:418:THR:HG21	1:O:1295:PHE:CE2	2.56	0.41
1:O:534:HIS:CE1	1:O:538:VAL:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:651:HIS:CD2	1:O:921:ALA:HB2	2.56	0.41
1:O:782:GLN:HG2	1:O:799:ASN:ND2	2.36	0.41
1:O:798:ASP:OD1	1:O:798:ASP:N	2.53	0.41
1:O:1058:GLN:HB3	1:O:1063:PHE:HB3	2.03	0.41
1:P:83:LEU:HD11	1:P:317:TYR:CE1	2.56	0.41
1:P:421:MET:HG2	1:P:1355:CYS:SG	2.61	0.41
1:P:440:ASP:OD1	1:P:441:PHE:N	2.54	0.41
1:P:564:ASP:CG	1:P:592:ARG:HE	2.28	0.41
1:P:661:LEU:HB3	2:Y:101:THR:HG22	2.01	0.41
1:P:736:SER:OG	1:P:737:GLU:N	2.54	0.41
1:P:761:TYR:OH	1:P:821:HIS:O	2.34	0.41
1:P:867:ILE:O	1:P:867:ILE:HG13	2.20	0.41
1:P:908:ASP:OD1	1:P:909:ALA:N	2.54	0.41
2:Y:9:VAL:HG13	2:Y:12:ASP:OD1	2.21	0.41
1:Q:201:LEU:HD23	1:Q:1083:LEU:HD22	2.02	0.41
1:Q:469:LEU:HD12	1:Q:469:LEU:HA	1.85	0.41
1:Q:778:ARG:HD3	1:Q:799:ASN:CG	2.46	0.41
1:Q:1316:LYS:HG3	1:Q:1317:ALA:H	1.86	0.41
2:Z:11:PHE:CE1	2:Z:40:GLY:HA2	2.55	0.41
2:Z:52:ASP:OD1	2:Z:56:ILE:HG23	2.20	0.41
1:R:158:THR:HA	1:R:170:ARG:HH12	1.85	0.41
1:S:241:ASP:OD1	1:S:241:ASP:N	2.53	0.41
1:S:254:LEU:O	1:S:258:TYR:HD1	2.03	0.41
1:S:611:ARG:NH1	1:S:1064:HIS:O	2.54	0.41
1:S:682:ASN:ND2	1:S:957:ILE:O	2.47	0.41
1:S:1358:ASP:HB2	1:S:1379:GLN:OE1	2.21	0.41
1:S:1394:LEU:HB3	1:S:1395:PRO:HD2	2.03	0.41
1:T:78:ASN:OD1	1:T:78:ASN:N	2.52	0.41
1:T:196:LEU:HD12	1:T:196:LEU:HA	1.80	0.41
1:T:422:PRO:O	1:T:457:ILE:HD12	2.21	0.41
1:T:778:ARG:HH12	1:T:798:ASP:HA	1.85	0.41
1:T:846:CYS:HB2	1:T:988:HIS:ND1	2.35	0.41
1:T:1099:VAL:HG12	1:T:1112:LEU:HG	2.03	0.41
1:T:1215:LEU:O	1:T:1219:ARG:HG3	2.21	0.41
1:U:130:ASN:N	1:U:130:ASN:OD1	2.53	0.41
1:U:177:MET:HE3	1:U:177:MET:O	2.21	0.41
1:U:423:MET:HB3	1:U:423:MET:HE2	1.79	0.41
1:U:521:GLY:O	1:U:525:GLU:HG2	2.21	0.41
1:U:727:GLN:HE21	1:B:1004:LYS:HD2	1.86	0.41
1:U:776:SER:O	1:U:776:SER:OG	2.36	0.41
1:U:796:ARG:HB3	1:U:923:ARG:HH21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:964:TYR:HE2	1:G:715:ARG:NH2	2.19	0.41
1:U:1233:TYR:CD2	1:U:1253:VAL:HG11	2.56	0.41
1:B:105:GLY:O	1:B:136:ILE:HG23	2.21	0.41
1:B:446:GLU:OE2	1:B:446:GLU:N	2.41	0.41
1:B:657:PHE:HE2	1:B:693:TYR:CD2	2.39	0.41
1:B:836:VAL:O	1:B:840:PHE:HD1	2.04	0.41
1:B:1023:GLN:N	1:B:1024:PRO:HD2	2.35	0.41
1:B:1148:LEU:HD23	1:B:1148:LEU:HA	1.85	0.41
1:B:1333:PRO:HA	1:B:1334:PRO:HD3	1.98	0.41
1:C:514:ASP:OD1	1:C:515:THR:N	2.53	0.41
1:C:523:PHE:O	1:C:527:TRP:HB2	2.21	0.41
1:C:550:PRO:HG3	1:C:1259:ALA:HB2	2.03	0.41
1:C:803:HIS:HE1	1:C:817:ILE:HD12	1.84	0.41
1:C:1058:GLN:O	1:C:1061:THR:OG1	2.29	0.41
1:C:1189:ARG:HE	1:C:1189:ARG:HB3	1.65	0.41
1:E:73:TYR:CE2	1:F:1121:LEU:HD11	2.56	0.41
1:E:95:LYS:O	1:E:319:GLU:HA	2.21	0.41
1:E:500:ARG:HE	1:E:585:PRO:HG3	1.85	0.41
1:E:507:TYR:O	1:E:1015:ALA:HB2	2.21	0.41
1:E:520:MET:CE	1:E:992:LEU:HA	2.51	0.41
1:E:579:ARG:HD3	1:E:580:PRO:HD2	2.02	0.41
1:E:1333:PRO:HA	1:E:1334:PRO:HD3	1.95	0.41
1:F:134:LYS:HE2	1:F:134:LYS:HB3	1.72	0.41
1:F:397:LEU:HB3	1:F:401:VAL:HG22	2.03	0.41
1:F:527:TRP:CZ3	1:F:1002:LEU:HB3	2.56	0.41
1:F:759:LEU:HD23	1:F:781:TYR:CE2	2.55	0.41
1:F:835:ILE:C	1:F:838:PRO:HD2	2.46	0.41
2:K:72:HIS:HA	2:K:75:ASN:HB2	2.02	0.41
2:K:93:ARG:NH2	2:L:33:ILE:HB	2.36	0.41
1:G:115:MET:HE3	1:G:125:ASP:HB3	2.03	0.41
1:G:453:PRO:HA	1:G:454:PRO:HD3	1.98	0.41
1:G:685:HIS:CE1	1:G:754:TRP:CD1	3.09	0.41
1:G:787:VAL:HG21	1:G:796:ARG:NH2	2.35	0.41
1:G:839:ALA:HB2	1:G:1039:LEU:HD22	2.03	0.41
1:G:1100:HIS:O	1:G:1111:THR:OG1	2.39	0.41
1:G:1244:ILE:HG23	1:G:1245:MET:HE2	2.01	0.41
2:L:12:ASP:CB	2:L:15:ASN:HB3	2.50	0.41
4:j:106:LEU:HD11	4:j:112:ILE:HD11	2.03	0.41
4:j:277:TRP:CE3	4:j:278:ILE:HD13	2.56	0.41
4:k:4:PRO:HB3	4:k:92:PRO:HA	2.01	0.41
4:p:240:ILE:HG23	4:p:241:GLN:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:163:ARG:O	4:r:266:ARG:NH2	2.54	0.41
4:r:168:PRO:HA	4:r:171:VAL:HG22	2.02	0.41
4:r:268:PHE:CE1	4:r:270:ILE:HB	2.56	0.41
4:n:127:LEU:HD12	4:n:132:LEU:HD11	2.03	0.41
4:s:124:SER:HB3	4:s:135:VAL:HG12	2.03	0.41
4:s:245:CYS:O	4:s:249:THR:HG23	2.21	0.41
1:z:412:ILE:HA	1:z:1079:THR:O	2.21	0.41
1:z:1392:LEU:HA	1:z:1393:PRO:HD3	1.92	0.41
1:A:646:LEU:O	1:A:650:ILE:HG22	2.21	0.41
1:A:722:THR:HG22	1:A:737:GLU:OE2	2.21	0.41
1:A:764:GLU:OE1	1:A:823:ARG:NH2	2.54	0.41
1:M:754:TRP:HE3	1:M:954:HIS:HD2	1.67	0.41
1:N:413:GLY:C	1:N:1079:THR:HG22	2.46	0.41
1:O:221:HIS:NE2	1:R:42:CYS:SG	2.91	0.41
1:O:927:ILE:HB	1:O:951:ALA:HB3	2.02	0.41
1:P:590:THR:HG22	1:P:591:LEU:H	1.86	0.41
1:P:933:PRO:HB2	1:P:937:ALA:HB3	2.03	0.41
1:Q:18:ARG:HH11	1:Q:18:ARG:HG2	1.85	0.41
1:Q:419:PHE:HA	1:Q:1351:TYR:O	2.21	0.41
1:Q:757:ASP:OD2	1:Q:820:HIS:N	2.54	0.41
1:Q:906:ASP:O	1:Q:910:LEU:HG	2.21	0.41
1:R:285:VAL:HG11	1:R:393:PHE:CE1	2.56	0.41
1:R:461:ASN:CG	1:R:462:LYS:H	2.29	0.41
1:R:504:PHE:CE1	1:R:527:TRP:HZ3	2.37	0.41
1:R:556:ARG:O	1:R:559:LEU:HD21	2.21	0.41
1:R:621:THR:OG1	1:R:1037:ASN:ND2	2.53	0.41
2:a:12:ASP:C	2:a:14:SER:H	2.29	0.41
1:S:513:GLU:HG2	1:S:522:ARG:HH12	1.85	0.41
1:S:580:PRO:HA	1:S:581:PRO:HD3	1.99	0.41
1:S:645:MET:HB3	1:S:855:LEU:HD11	2.03	0.41
1:S:1075:ASP:OD2	1:S:1141:MET:HG2	2.21	0.41
2:b:99:LYS:HE2	1:T:967:THR:HG21	2.03	0.41
1:T:653:ASN:HD22	1:T:656:ASN:ND2	2.19	0.41
1:T:848:MET:HG3	1:T:958:MET:HE3	2.03	0.41
1:T:980:ASN:HB3	1:T:983:PHE:CD2	2.55	0.41
1:U:39:ILE:HD12	1:U:39:ILE:HA	1.93	0.41
1:U:94:THR:HA	1:U:318:GLY:H	1.84	0.41
1:U:185:LEU:HD23	1:U:185:LEU:HA	1.91	0.41
1:U:590:THR:HA	1:U:945:MET:HE3	2.03	0.41
1:B:25:ILE:H	1:B:25:ILE:HG12	1.65	0.41
1:B:382:ALA:HB1	1:B:393:PHE:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:627:ILE:HG22	1:B:631:LYS:HD2	2.01	0.41
1:B:721:ILE:HD13	1:B:741:ASN:ND2	2.36	0.41
1:B:852:TYR:HA	1:B:855:LEU:HB3	2.02	0.41
2:H:66:ALA:HA	2:H:69:ARG:HG2	2.02	0.41
1:C:292:THR:HG23	1:C:398:GLU:OE2	2.21	0.41
1:C:432:ASP:HA	1:C:434:TYR:CE2	2.56	0.41
1:C:436:ARG:O	1:C:437:HIS:ND1	2.54	0.41
1:C:514:ASP:OD1	1:C:516:LEU:HG	2.21	0.41
1:C:573:ASP:OD1	1:C:573:ASP:N	2.41	0.41
1:C:1274:ARG:HE	1:C:1274:ARG:HB2	1.66	0.41
1:E:243:PHE:HB3	1:E:246:THR:HG22	2.03	0.41
1:E:520:MET:HE1	1:E:992:LEU:HA	2.03	0.41
1:F:636:ASP:OD2	1:F:677:ARG:NE	2.44	0.41
1:F:1232:LEU:HD22	1:F:1311:LEU:HD13	2.02	0.41
2:K:8:ARG:HH12	2:K:24:ILE:CG1	2.30	0.41
1:G:248:HIS:NE2	1:G:254:LEU:HD22	2.36	0.41
1:G:563:PHE:O	1:G:592:ARG:NE	2.54	0.41
3:e:227:GLY:O	3:e:228:CYS:HB2	2.21	0.41
4:j:150:ALA:HA	4:j:153:VAL:HG12	2.03	0.41
4:o:11:LEU:HD23	4:o:11:LEU:H	1.86	0.41
4:o:111:TYR:CE2	4:o:295:ARG:HD3	2.56	0.41
3:f:216:ASP:O	3:f:220:THR:HG22	2.21	0.41
4:l:214:GLU:HB2	4:l:277:TRP:HD1	1.86	0.41
3:h:267:ILE:CG1	3:h:268:GLN:N	2.84	0.41
4:r:102:SER:OG	4:r:104:VAL:HG22	2.21	0.41
4:s:100:ASN:ND2	4:s:106:LEU:HD22	2.35	0.41
1:A:609:ASP:OD2	1:A:1034:SER:HB2	2.21	0.40
1:M:628:LYS:HE2	1:M:628:LYS:HB3	1.96	0.40
1:M:1027:TYR:CE1	1:M:1031:HIS:HD2	2.39	0.40
1:N:211:SER:HA	1:N:265:CYS:SG	2.61	0.40
1:N:1242:GLU:OE2	1:N:1242:GLU:N	2.36	0.40
2:W:100:ARG:HA	2:W:102:PHE:CE2	2.55	0.40
1:O:58:ASP:O	1:O:61:LEU:HD12	2.21	0.40
1:O:644:TYR:HE1	1:O:682:ASN:HD22	1.68	0.40
1:P:25:ILE:CG2	1:P:26:PRO:HD3	2.51	0.40
1:P:150:GLU:O	1:P:150:GLU:HG3	2.21	0.40
1:R:18:ARG:NH2	1:R:18:ARG:H	2.19	0.40
1:R:579:ARG:HD2	1:R:579:ARG:HA	1.96	0.40
1:R:1007:PRO:HA	1:R:1008:PRO:HD3	1.93	0.40
1:S:527:TRP:CH2	1:S:1002:LEU:HD22	2.56	0.40
1:S:893:SER:O	1:S:896:VAL:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:167:SER:HA	1:T:170:ARG:HG2	2.03	0.40
1:U:989:LEU:H	1:U:989:LEU:HD23	1.85	0.40
1:U:1159:HIS:HB3	1:U:1161:ASN:OD1	2.21	0.40
1:C:701:GLU:OE2	1:E:676:HIS:ND1	2.54	0.40
1:C:1166:LEU:HD23	1:C:1166:LEU:HA	1.81	0.40
1:E:219:GLU:HG3	1:E:222:LEU:HA	2.03	0.40
1:E:277:HIS:ND1	1:E:313:VAL:HG12	2.35	0.40
1:E:312:ASP:HB3	1:E:377:ASN:HB3	2.02	0.40
1:E:544:ILE:O	1:E:548:ILE:HG12	2.22	0.40
1:E:557:PHE:HB3	1:E:565:PHE:HB2	2.03	0.40
1:E:904:THR:O	1:E:904:THR:OG1	2.31	0.40
1:E:956:LEU:HD23	1:E:956:LEU:HA	1.86	0.40
2:J:55:SER:O	2:J:58:THR:OG1	2.39	0.40
1:F:84:GLU:HB3	1:F:380:VAL:HG21	2.02	0.40
1:F:683:ASN:OD1	1:F:684:PHE:N	2.54	0.40
1:F:1090:GLU:HG2	1:F:1119:VAL:O	2.21	0.40
1:G:99:LEU:O	1:G:102:VAL:HG13	2.21	0.40
1:G:653:ASN:OD1	1:G:654:GLU:N	2.54	0.40
1:G:657:PHE:HE1	1:G:664:LEU:HD22	1.86	0.40
1:G:711:LEU:HD13	1:G:711:LEU:HA	1.93	0.40
1:G:743:LEU:HD13	1:G:831:ILE:HD13	2.02	0.40
1:G:778:ARG:NH1	1:G:797:ARG:O	2.54	0.40
1:G:1097:ILE:N	1:G:1114:GLN:HE22	2.18	0.40
4:j:10:LEU:HD13	4:j:41:SER:HA	2.03	0.40
4:j:52:ILE:HD13	4:j:56:PRO:HA	2.03	0.40
4:j:286:ASP:OD1	4:j:286:ASP:N	2.50	0.40
4:o:203:THR:HG21	4:o:288:LEU:HD13	2.03	0.40
4:k:202:ARG:HA	4:k:205:VAL:HG22	2.03	0.40
4:p:268:PHE:HA	4:p:269:PRO:HD3	1.90	0.40
3:g:192:ARG:NH1	4:l:181:ASN:OD1	2.54	0.40
4:l:271:TYR:OH	4:q:158:GLU:HA	2.20	0.40
4:n:19:GLU:HG2	4:n:127:LEU:HA	2.02	0.40
4:n:193:HIS:O	4:n:193:HIS:ND1	2.48	0.40
1:z:287:GLY:C	1:z:392:VAL:HG23	2.46	0.40
1:z:299:LEU:HG	1:z:304:LEU:HD23	2.03	0.40
1:A:42:CYS:O	1:A:45:ARG:HG2	2.21	0.40
1:A:289:LEU:N	1:A:393:PHE:O	2.46	0.40
1:A:844:SER:O	1:A:844:SER:OG	2.38	0.40
1:A:1051:THR:N	1:A:1054:SER:OG	2.55	0.40
1:M:1231:MET:HE3	1:M:1231:MET:HB3	1.76	0.40
2:V:96:VAL:HG21	1:O:897:TYR:OH	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:390:LYS:O	1:N:392:VAL:HG13	2.21	0.40
1:O:219:GLU:O	1:O:221:HIS:N	2.52	0.40
1:O:770:LEU:O	1:O:946:ARG:NH2	2.54	0.40
1:O:888:GLN:OE1	1:O:888:GLN:N	2.54	0.40
2:X:24:ILE:HD12	2:X:28:THR:OG1	2.22	0.40
1:P:144:ALA:HB2	1:P:1111:THR:HG22	2.02	0.40
1:P:254:LEU:HD23	1:P:254:LEU:HA	1.95	0.40
1:P:1108:VAL:HG13	1:P:1110:PHE:HE1	1.85	0.40
2:Y:96:VAL:HG21	1:Q:897:TYR:CZ	2.56	0.40
1:Q:174:ILE:HD13	1:Q:174:ILE:HA	1.93	0.40
1:Q:331:LEU:HD23	1:Q:331:LEU:HA	1.83	0.40
1:R:411:LEU:HD23	1:R:411:LEU:HA	1.86	0.40
1:R:745:ASP:O	1:R:830:LYS:NZ	2.53	0.40
1:T:742:ILE:HD12	1:T:742:ILE:HA	1.88	0.40
1:T:1260:THR:OG1	1:T:1261:LEU:N	2.53	0.40
1:U:87:LEU:HD11	1:U:397:LEU:HD21	2.03	0.40
1:U:711:LEU:O	1:U:715:ARG:HG2	2.21	0.40
1:B:82:PHE:H	1:B:189:GLU:CG	2.34	0.40
1:B:118:ARG:HH21	1:B:122:HIS:HB3	1.86	0.40
1:B:908:ASP:HA	1:B:911:LEU:HD23	2.03	0.40
1:B:1310:ARG:HG3	1:B:1314:GLU:OE1	2.22	0.40
1:B:1328:TYR:HB2	1:B:1330:PHE:CE1	2.56	0.40
1:C:859:LEU:O	1:C:894:LEU:HD22	2.22	0.40
1:C:885:HIS:HB3	1:C:888:GLN:NE2	2.36	0.40
1:F:684:PHE:HD2	1:F:829:SER:HA	1.86	0.40
1:F:808:ARG:HG2	1:F:809:GLY:N	2.35	0.40
1:G:308:ASP:OD1	1:G:309:THR:N	2.54	0.40
1:G:525:GLU:HG2	1:G:526:THR:N	2.36	0.40
1:G:927:ILE:HG12	1:G:953:TYR:HB2	2.02	0.40
1:G:1069:PHE:CD1	1:G:1208:ALA:HA	2.56	0.40
4:j:111:TYR:O	4:j:141:PRO:HA	2.21	0.40
4:k:294:LEU:HB3	4:k:313:VAL:HG11	2.03	0.40
4:p:6:GLU:OE2	4:p:85:HIS:NE2	2.54	0.40
4:l:108:ASN:ND2	4:l:298:VAL:HG12	2.36	0.40
4:q:222:LEU:HB3	4:q:226:LEU:HD13	2.03	0.40
4:m:296:VAL:HA	4:m:313:VAL:HG12	2.03	0.40
4:n:7:ILE:HD11	4:n:36:LEU:HD11	2.02	0.40
4:n:35:THR:HG22	4:n:36:LEU:H	1.86	0.40
4:n:115:LEU:HD13	4:n:145:MET:HE1	2.03	0.40
4:n:271:TYR:CD1	4:s:158:GLU:HB2	2.56	0.40
4:s:51:TYR:OH	4:s:56:PRO:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:236:VAL:O	4:s:240:ILE:HG13	2.20	0.40
1:A:295:LEU:O	1:A:299:LEU:HG	2.21	0.40
1:A:845:CYS:SG	1:A:983:PHE:HD1	2.45	0.40
1:A:961:TYR:HB2	1:A:988:HIS:CE1	2.56	0.40
2:D:75:ASN:O	2:D:106:ILE:HG12	2.21	0.40
1:M:877:PRO:HB3	1:M:882:HIS:CD2	2.56	0.40
1:M:1225:ARG:NH1	1:M:1229:SER:OG	2.53	0.40
1:N:770:LEU:O	1:N:946:ARG:NH2	2.34	0.40
1:O:34:ASN:HA	1:B:74:CYS:O	2.22	0.40
1:O:130:ASN:HB3	1:O:132:MET:SD	2.61	0.40
1:O:304:LEU:HD23	1:O:304:LEU:HA	1.86	0.40
2:X:55:SER:O	2:X:59:VAL:HG12	2.21	0.40
2:X:63:ALA:HA	2:X:66:ALA:HB3	2.03	0.40
1:P:516:LEU:O	1:P:520:MET:HB2	2.22	0.40
1:P:1235:GLY:C	1:P:1237:ARG:HH21	2.29	0.40
2:Y:93:ARG:C	1:Q:854:ARG:HH12	2.30	0.40
1:Q:672:TRP:HE3	1:Q:677:ARG:O	2.04	0.40
1:R:200:LEU:HD23	1:R:200:LEU:HA	1.91	0.40
1:R:253:ARG:HA	1:R:253:ARG:NE	2.37	0.40
1:R:425:VAL:HG11	1:R:1215:LEU:HD21	2.02	0.40
1:R:1293:PHE:O	1:R:1297:THR:HG23	2.21	0.40
1:S:221:HIS:ND1	1:S:221:HIS:O	2.53	0.40
1:S:458:PHE:CD1	1:S:1359:ALA:HB2	2.57	0.40
1:T:316:THR:OG1	1:T:317:TYR:N	2.54	0.40
1:T:744:THR:HG23	1:T:827:ILE:HD13	2.04	0.40
1:T:837:ILE:HB	1:T:838:PRO:HD3	2.04	0.40
1:T:882:HIS:HD2	1:T:884:LEU:HB2	1.86	0.40
1:T:1129:CYS:SG	1:T:1130:ALA:N	2.95	0.40
1:T:1225:ARG:HG2	1:T:1296:PHE:CE1	2.56	0.40
1:T:1340:THR:OG1	1:T:1341:GLN:N	2.54	0.40
1:U:480:HIS:CE1	1:U:1148:LEU:HB3	2.57	0.40
1:U:1394:LEU:HD23	1:U:1394:LEU:HA	1.91	0.40
1:B:212:PRO:O	1:B:216:PHE:HB2	2.21	0.40
1:B:1225:ARG:NH2	1:B:1245:MET:O	2.55	0.40
1:B:1246:PHE:O	1:B:1248:HIS:ND1	2.50	0.40
1:C:238:VAL:O	1:C:242:MET:HE2	2.22	0.40
1:C:1372:ALA:O	1:C:1383:ARG:NH2	2.55	0.40
2:I:83:PHE:HB2	2:I:85:GLU:OE2	2.21	0.40
1:E:177:MET:HE3	1:E:177:MET:HB3	1.85	0.40
1:E:429:ASN:HB3	1:E:606:SER:CB	2.52	0.40
1:E:736:SER:HG	1:E:737:GLU:H	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:174:ILE:HA	1:F:177:MET:HG3	2.02	0.40
1:F:267:GLN:OE1	1:F:1125:TYR:N	2.44	0.40
1:F:299:LEU:HD23	1:F:303:ILE:HD12	2.03	0.40
1:F:392:VAL:HG11	1:F:1084:TYR:CE1	2.55	0.40
1:F:642:ILE:HA	1:F:645:MET:SD	2.62	0.40
1:F:823:ARG:O	1:F:827:ILE:HG12	2.22	0.40
1:F:851:ARG:HH11	1:F:972:THR:HA	1.87	0.40
1:F:1039:LEU:HD12	1:F:1042:SER:OG	2.22	0.40
1:G:500:ARG:HH12	1:G:584:MET:HE1	1.85	0.40
1:G:642:ILE:C	1:G:646:LEU:HG	2.46	0.40
4:j:57:PRO:HG2	4:j:62:LEU:HD21	2.03	0.40
4:m:23:LEU:HA	4:m:23:LEU:HD23	1.87	0.40
3:i:191:LEU:HA	3:i:191:LEU:HD12	1.78	0.40
3:i:204:CYS:O	3:i:205:ARG:HD2	2.20	0.40
1:A:749:ILE:HD12	1:A:758:ALA:HB1	2.03	0.40
1:A:850:VAL:HG22	1:A:974:PHE:CE1	2.56	0.40
1:A:937:ALA:HB2	1:A:1051:THR:HG23	2.04	0.40
1:A:990:ALA:HB2	1:A:1000:ARG:NH1	2.36	0.40
1:A:1200:GLN:NE2	1:A:1323:SER:O	2.33	0.40
1:M:997:ASN:HA	1:M:1000:ARG:HG2	2.02	0.40
1:N:1231:MET:HE2	1:N:1310:ARG:HD2	2.03	0.40
1:N:1392:LEU:HD12	1:N:1392:LEU:HA	1.88	0.40
2:W:50:ILE:HG13	2:W:51:ALA:N	2.36	0.40
1:O:502:CYS:SG	1:O:531:MET:HB3	2.61	0.40
1:O:1361:MET:HE2	1:O:1361:MET:HB3	1.90	0.40
1:P:1372:ALA:HB1	1:P:1383:ARG:HE	1.86	0.40
1:Q:210:LEU:HG	1:Q:265:CYS:SG	2.61	0.40
1:Q:271:MET:HE1	1:Q:1087:ARG:HH12	1.87	0.40
1:Q:507:TYR:O	1:Q:1015:ALA:HB2	2.22	0.40
1:Q:683:ASN:ND2	1:Q:685:HIS:HB2	2.35	0.40
1:Q:1319:ALA:HA	1:Q:1339:MET:HG2	2.03	0.40
1:R:97:PRO:HD3	1:R:320:MET:O	2.21	0.40
1:R:181:LEU:HA	1:R:184:VAL:HG22	2.03	0.40
1:R:214:ASN:ND2	1:R:265:CYS:SG	2.94	0.40
1:R:444:VAL:HG13	1:S:1377:LEU:HD11	2.03	0.40
1:S:885:HIS:CD2	1:S:887:HIS:H	2.40	0.40
1:T:322:LEU:HD23	1:T:322:LEU:O	2.22	0.40
1:T:658:CYS:O	1:T:661:LEU:HD13	2.21	0.40
1:T:688:MET:HE1	1:T:711:LEU:HD21	2.03	0.40
1:T:1215:LEU:HD23	1:T:1215:LEU:HA	1.86	0.40
2:c:32:LEU:O	2:c:35:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:93:CYS:HA	1:U:1092:TYR:HB3	2.03	0.40
1:U:165:ILE:H	1:U:165:ILE:HG13	1.72	0.40
1:U:253:ARG:HA	1:U:256:SER:HB2	2.03	0.40
1:U:496:GLN:OE1	1:U:496:GLN:N	2.54	0.40
1:U:647:GLU:CD	1:U:956:LEU:HD22	2.46	0.40
1:U:784:LEU:HB3	1:U:802:ILE:HG22	2.03	0.40
1:U:1075:ASP:OD1	1:U:1139:THR:OG1	2.39	0.40
1:B:708:ARG:CZ	1:C:677:ARG:HH22	2.34	0.40
1:B:1070:THR:HB	1:B:1209:MET:HE2	2.03	0.40
1:C:120:GLY:HA3	1:C:122:HIS:CE1	2.56	0.40
1:C:531:MET:C	1:C:533:HIS:N	2.80	0.40
1:C:1007:PRO:HA	1:C:1008:PRO:HD3	1.88	0.40
2:I:12:ASP:OD1	2:I:12:ASP:N	2.53	0.40
1:E:145:PHE:CE2	1:E:147:ILE:HD11	2.57	0.40
1:E:594:ILE:HD12	1:E:1046:GLY:O	2.22	0.40
1:E:1307:THR:O	1:E:1309:ASP:N	2.54	0.40
1:F:182:ARG:O	1:F:185:LEU:HG	2.21	0.40
1:F:277:HIS:CE1	1:F:313:VAL:HG23	2.56	0.40
1:F:419:PHE:HA	1:F:1351:TYR:O	2.21	0.40
1:F:889:LEU:O	1:F:889:LEU:HD12	2.22	0.40
1:F:1058:GLN:NE2	1:F:1065:PRO:HB3	2.36	0.40
1:F:1205:GLU:HG3	1:F:1292:CYS:SG	2.61	0.40
1:F:1248:HIS:NE2	1:F:1267:GLN:HA	2.36	0.40
1:G:556:ARG:HG3	1:G:557:PHE:CD1	2.57	0.40
1:G:740:ASN:HD22	1:G:1057:HIS:HB2	1.87	0.40
2:L:91:TRP:O	2:L:92:LEU:HB3	2.20	0.40
3:f:475:THR:HG22	4:k:316:VAL:HG11	2.02	0.40
4:r:115:LEU:HB2	4:r:145:MET:SD	2.61	0.40
4:s:58:ASP:O	4:s:62:LEU:N	2.41	0.40
1:z:81:ARG:O	1:z:84:GLU:HG2	2.22	0.40
1:z:419:PHE:HB2	1:z:1073:ARG:O	2.22	0.40
1:z:1220:THR:HG23	1:z:1221:ALA:H	1.87	0.40
1:A:104:ASP:OD1	1:A:104:ASP:N	2.52	0.40
1:M:749:ILE:HG22	1:M:750:ALA:O	2.22	0.40
1:M:872:GLU:CD	1:M:872:GLU:H	2.29	0.40
1:M:1166:LEU:O	1:M:1170:THR:HG22	2.22	0.40
1:N:749:ILE:HD13	1:N:749:ILE:HA	1.92	0.40
1:N:808:ARG:NH1	2:W:85:GLU:H	2.20	0.40
1:N:823:ARG:NE	1:P:997:ASN:HD21	2.18	0.40
1:O:22:LEU:HD23	1:O:22:LEU:HA	1.92	0.40
1:O:51:PHE:O	1:O:53:GLN:NE2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:156:SER:O	1:R:158:THR:HG23	2.22	0.40
1:R:544:ILE:HG23	1:R:545:LEU:HD12	2.02	0.40
1:R:1058:GLN:HB3	1:R:1063:PHE:HD2	1.87	0.40
2:a:12:ASP:O	2:a:14:SER:N	2.54	0.40
1:S:913:LEU:O	1:S:913:LEU:HD23	2.22	0.40
1:T:1356:SER:OG	1:T:1357:SER:N	2.55	0.40
1:B:50:PHE:CZ	1:B:52:LYS:HB2	2.56	0.40
1:B:340:MET:HE3	1:B:340:MET:HB3	1.86	0.40
1:B:502:CYS:SG	1:B:530:MET:HG2	2.61	0.40
1:B:594:ILE:H	1:B:597:ASN:ND2	2.20	0.40
1:B:595:ASN:HD21	1:B:611:ARG:HH12	1.70	0.40
2:H:40:GLY:HA3	2:H:44:PRO:CD	2.51	0.40
1:C:500:ARG:HD3	1:C:501:GLN:N	2.36	0.40
1:C:739:LEU:HD23	1:C:739:LEU:HA	1.89	0.40
2:I:103:ASN:OD1	2:I:103:ASN:N	2.52	0.40
1:E:661:LEU:HB2	2:J:100:ARG:O	2.22	0.40
1:E:922:GLU:N	1:E:922:GLU:OE1	2.55	0.40
1:E:1194:ALA:N	1:F:1250:GLN:OE1	2.54	0.40
1:E:1321:GLN:OE1	1:E:1321:GLN:N	2.54	0.40
2:J:36:LEU:HD21	2:J:38:ALA:O	2.22	0.40
1:F:171:ILE:O	1:F:174:ILE:HG22	2.21	0.40
1:F:224:ARG:HD2	1:F:1234:MET:CE	2.47	0.40
1:F:380:VAL:HA	1:F:381:PRO:HD3	1.88	0.40
1:G:420:ILE:HG22	1:G:1351:TYR:C	2.45	0.40
4:j:100:ASN:N	4:j:100:ASN:OD1	2.54	0.40
4:o:32:THR:HG22	4:o:69:ARG:CB	2.50	0.40
4:k:62:LEU:HD23	4:k:62:LEU:HA	1.96	0.40
4:k:284:LEU:HD13	4:k:284:LEU:HA	1.87	0.40
4:p:116:PRO:O	4:p:118:VAL:HG23	2.22	0.40
3:h:216:ASP:O	3:h:220:THR:HG22	2.21	0.40
4:m:117:PRO:HB3	4:m:122:ALA:HB2	2.03	0.40
4:r:58:ASP:H	4:r:61:SER:HG	1.59	0.40
4:r:233:ASP:OD1	4:r:234:GLY:N	2.54	0.40
4:s:176:ASP:HB3	4:s:187:LEU:HG	2.02	0.40
1:z:314:PRO:HB2	1:z:316:THR:HG22	2.02	0.40
1:z:392:VAL:HG22	1:z:393:PHE:N	2.35	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	1350/1396 (97%)	1184 (88%)	165 (12%)	1 (0%)	48	82
1	B	1351/1396 (97%)	1191 (88%)	160 (12%)	0	100	100
1	C	1350/1396 (97%)	1194 (88%)	156 (12%)	0	100	100
1	E	1347/1396 (96%)	1185 (88%)	162 (12%)	0	100	100
1	F	1350/1396 (97%)	1191 (88%)	159 (12%)	0	100	100
1	G	1291/1396 (92%)	1135 (88%)	155 (12%)	1 (0%)	48	82
1	M	1349/1396 (97%)	1206 (89%)	143 (11%)	0	100	100
1	N	1349/1396 (97%)	1207 (90%)	142 (10%)	0	100	100
1	O	1351/1396 (97%)	1201 (89%)	150 (11%)	0	100	100
1	P	1351/1396 (97%)	1221 (90%)	129 (10%)	1 (0%)	48	82
1	Q	1350/1396 (97%)	1210 (90%)	140 (10%)	0	100	100
1	R	1349/1396 (97%)	1194 (88%)	154 (11%)	1 (0%)	48	82
1	S	1351/1396 (97%)	1206 (89%)	145 (11%)	0	100	100
1	T	1350/1396 (97%)	1194 (88%)	155 (12%)	1 (0%)	48	82
1	U	1327/1396 (95%)	1167 (88%)	160 (12%)	0	100	100
1	z	595/1396 (43%)	505 (85%)	90 (15%)	0	100	100
2	D	98/235 (42%)	79 (81%)	19 (19%)	0	100	100
2	H	97/235 (41%)	78 (80%)	19 (20%)	0	100	100
2	I	98/235 (42%)	79 (81%)	19 (19%)	0	100	100
2	J	98/235 (42%)	79 (81%)	19 (19%)	0	100	100
2	K	98/235 (42%)	82 (84%)	16 (16%)	0	100	100
2	L	98/235 (42%)	76 (78%)	22 (22%)	0	100	100
2	V	98/235 (42%)	75 (76%)	23 (24%)	0	100	100
2	W	98/235 (42%)	79 (81%)	19 (19%)	0	100	100
2	X	98/235 (42%)	84 (86%)	14 (14%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	Y	98/235 (42%)	76 (78%)	22 (22%)	0	100	100
2	Z	98/235 (42%)	80 (82%)	18 (18%)	0	100	100
2	a	98/235 (42%)	78 (80%)	20 (20%)	0	100	100
2	b	97/235 (41%)	82 (84%)	15 (16%)	0	100	100
2	c	98/235 (42%)	78 (80%)	20 (20%)	0	100	100
2	d	98/235 (42%)	77 (79%)	20 (20%)	1 (1%)	12	47
3	e	283/483 (59%)	261 (92%)	19 (7%)	3 (1%)	11	45
3	f	312/483 (65%)	289 (93%)	19 (6%)	4 (1%)	9	40
3	g	313/483 (65%)	289 (92%)	23 (7%)	1 (0%)	36	71
3	h	313/483 (65%)	290 (93%)	20 (6%)	3 (1%)	12	47
3	i	312/483 (65%)	290 (93%)	20 (6%)	2 (1%)	21	58
4	j	233/316 (74%)	213 (91%)	20 (9%)	0	100	100
4	k	269/316 (85%)	238 (88%)	31 (12%)	0	100	100
4	l	257/316 (81%)	225 (88%)	32 (12%)	0	100	100
4	m	261/316 (83%)	229 (88%)	32 (12%)	0	100	100
4	n	259/316 (82%)	231 (89%)	28 (11%)	0	100	100
4	o	250/316 (79%)	226 (90%)	24 (10%)	0	100	100
4	p	300/316 (95%)	278 (93%)	22 (7%)	0	100	100
4	q	297/316 (94%)	266 (90%)	31 (10%)	0	100	100
4	r	313/316 (99%)	289 (92%)	24 (8%)	0	100	100
4	s	300/316 (95%)	275 (92%)	25 (8%)	0	100	100
All	All	26501/31436 (84%)	23462 (88%)	3020 (11%)	19 (0%)	49	82

All (19) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	P	48	PHE
3	e	227	GLY
3	f	227	GLY
3	g	227	GLY
3	h	227	GLY
3	i	227	GLY
3	e	230	ARG
3	f	230	ARG
3	i	475	THR

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Mol	Chain	Res	Type
3	e	228	CYS
3	f	228	CYS
3	f	314	SER
3	h	228	CYS
3	h	475	THR
2	d	88	PRO
1	G	1008	PRO
1	R	1105	ILE
1	T	816	PRO
1	A	816	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1143/1182 (97%)	1143 (100%)	0	100	100
1	B	1144/1182 (97%)	1144 (100%)	0	100	100
1	C	1143/1182 (97%)	1143 (100%)	0	100	100
1	E	1142/1182 (97%)	1141 (100%)	1 (0%)	88	88
1	F	1143/1182 (97%)	1143 (100%)	0	100	100
1	G	1092/1182 (92%)	1092 (100%)	0	100	100
1	M	1142/1182 (97%)	1141 (100%)	1 (0%)	88	88
1	N	1142/1182 (97%)	1142 (100%)	0	100	100
1	O	1144/1182 (97%)	1144 (100%)	0	100	100
1	P	1144/1182 (97%)	1143 (100%)	1 (0%)	88	88
1	Q	1143/1182 (97%)	1142 (100%)	1 (0%)	88	88
1	R	1142/1182 (97%)	1140 (100%)	2 (0%)	87	85
1	S	1144/1182 (97%)	1144 (100%)	0	100	100
1	T	1143/1182 (97%)	1143 (100%)	0	100	100
1	U	1125/1182 (95%)	1122 (100%)	3 (0%)	86	84
1	z	511/1182 (43%)	510 (100%)	1 (0%)	87	85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	D	79/189 (42%)	79 (100%)	0	100	100
2	H	78/189 (41%)	78 (100%)	0	100	100
2	I	79/189 (42%)	79 (100%)	0	100	100
2	J	79/189 (42%)	79 (100%)	0	100	100
2	K	79/189 (42%)	79 (100%)	0	100	100
2	L	79/189 (42%)	79 (100%)	0	100	100
2	V	79/189 (42%)	79 (100%)	0	100	100
2	W	79/189 (42%)	79 (100%)	0	100	100
2	X	79/189 (42%)	79 (100%)	0	100	100
2	Y	79/189 (42%)	79 (100%)	0	100	100
2	Z	79/189 (42%)	79 (100%)	0	100	100
2	a	79/189 (42%)	79 (100%)	0	100	100
2	b	78/189 (41%)	78 (100%)	0	100	100
2	c	79/189 (42%)	79 (100%)	0	100	100
2	d	79/189 (42%)	79 (100%)	0	100	100
3	e	245/410 (60%)	232 (95%)	13 (5%)	20	41
3	f	262/410 (64%)	244 (93%)	18 (7%)	14	36
3	g	263/410 (64%)	247 (94%)	16 (6%)	17	38
3	h	263/410 (64%)	247 (94%)	16 (6%)	17	38
3	i	262/410 (64%)	247 (94%)	15 (6%)	18	39
4	j	205/267 (77%)	205 (100%)	0	100	100
4	k	232/267 (87%)	232 (100%)	0	100	100
4	l	224/267 (84%)	224 (100%)	0	100	100
4	m	224/267 (84%)	224 (100%)	0	100	100
4	n	224/267 (84%)	224 (100%)	0	100	100
4	o	220/267 (82%)	219 (100%)	1 (0%)	81	82
4	p	258/267 (97%)	258 (100%)	0	100	100
4	q	257/267 (96%)	257 (100%)	0	100	100
4	r	266/267 (100%)	266 (100%)	0	100	100
4	s	257/267 (96%)	257 (100%)	0	100	100
All	All	22432/26467 (85%)	22343 (100%)	89 (0%)	81	83

All (89) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	M	386	ILE
1	P	54	ILE
1	Q	18	ARG
1	R	18	ARG
1	R	19	ILE
1	U	19	ILE
1	U	862	VAL
1	U	904	THR
1	E	80	VAL
3	e	118	THR
3	e	120	GLN
3	e	154	GLU
3	e	195	VAL
3	e	201	ILE
3	e	223	VAL
3	e	235	LEU
3	e	262	LEU
3	e	295	VAL
3	e	318	LEU
3	e	328	THR
3	e	451	THR
3	e	454	MET
4	o	136	PHE
3	f	119	THR
3	f	120	GLN
3	f	125	VAL
3	f	154	GLU
3	f	195	VAL
3	f	201	ILE
3	f	223	VAL
3	f	235	LEU
3	f	262	LEU
3	f	275	THR
3	f	295	VAL
3	f	310	ASP
3	f	318	LEU
3	f	328	THR
3	f	446	GLU
3	f	449	ARG
3	f	451	THR
3	f	454	MET
3	g	118	THR

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Mol	Chain	Res	Type
3	g	120	GLN
3	g	125	VAL
3	g	154	GLU
3	g	195	VAL
3	g	201	ILE
3	g	223	VAL
3	g	235	LEU
3	g	262	LEU
3	g	295	VAL
3	g	309	LYS
3	g	311	LEU
3	g	318	LEU
3	g	328	THR
3	g	451	THR
3	g	454	MET
3	h	118	THR
3	h	120	GLN
3	h	125	VAL
3	h	154	GLU
3	h	195	VAL
3	h	201	ILE
3	h	223	VAL
3	h	235	LEU
3	h	245	MET
3	h	262	LEU
3	h	295	VAL
3	h	318	LEU
3	h	328	THR
3	h	446	GLU
3	h	451	THR
3	h	454	MET
3	i	118	THR
3	i	120	GLN
3	i	125	VAL
3	i	154	GLU
3	i	195	VAL
3	i	201	ILE
3	i	223	VAL
3	i	235	LEU
3	i	262	LEU
3	i	295	VAL
3	i	328	THR

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Mol	Chain	Res	Type
3	i	446	GLU
3	i	449	ARG
3	i	451	THR
3	i	454	MET
1	z	1236	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (485) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	65	GLN
1	A	108	GLN
1	A	129	HIS
1	A	214	ASN
1	A	221	HIS
1	A	429	ASN
1	A	447	GLN
1	A	451	GLN
1	A	455	GLN
1	A	480	HIS
1	A	497	HIS
1	A	536	HIS
1	A	539	ASN
1	A	597	ASN
1	A	620	HIS
1	A	653	ASN
1	A	696	ASN
1	A	732	ASN
1	A	882	HIS
1	A	900	ASN
1	A	954	HIS
1	A	962	GLN
1	A	1016	ASN
1	A	1017	HIS
1	A	1031	HIS
1	A	1037	ASN
1	A	1058	GLN
1	A	1064	HIS
1	A	1074	GLN
1	A	1096	GLN
1	A	1177	ASN
1	A	1216	GLN
1	A	1269	HIS

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Mol	Chain	Res	Type
2	D	15	ASN
2	D	37	ASN
2	D	46	HIS
1	M	44	HIS
1	M	122	HIS
1	M	195	GLN
1	M	217	GLN
1	M	277	HIS
1	M	284	GLN
1	M	414	ASN
1	M	437	HIS
1	M	480	HIS
1	M	578	GLN
1	M	595	ASN
1	M	620	HIS
1	M	696	ASN
1	M	727	GLN
1	M	792	HIS
1	M	803	HIS
1	M	813	GLN
1	M	882	HIS
1	M	954	HIS
1	M	988	HIS
1	M	1031	HIS
1	M	1074	GLN
1	M	1161	ASN
1	M	1269	HIS
1	M	1304	ASN
2	V	46	HIS
2	V	75	ASN
1	N	78	ASN
1	N	112	GLN
1	N	180	ASN
1	N	214	ASN
1	N	248	HIS
1	N	346	HIS
1	N	377	ASN
1	N	414	ASN
1	N	455	GLN
1	N	519	GLN
1	N	536	HIS
1	N	539	ASN

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Mol	Chain	Res	Type
1	N	546	GLN
1	N	578	GLN
1	N	595	ASN
1	N	651	HIS
1	N	696	ASN
1	N	713	HIS
1	N	719	GLN
1	N	792	HIS
1	N	882	HIS
1	N	885	HIS
1	N	887	HIS
1	N	902	HIS
1	N	988	HIS
1	N	997	ASN
1	N	1031	HIS
1	N	1057	HIS
1	N	1081	GLN
1	N	1159	HIS
1	N	1250	GLN
1	N	1281	ASN
1	N	1376	HIS
1	N	1379	GLN
2	W	71	ASN
2	W	73	ASN
1	O	108	GLN
1	O	175	GLN
1	O	346	HIS
1	O	437	HIS
1	O	539	ASN
1	O	597	ASN
1	O	676	HIS
1	O	683	ASN
1	O	705	ASN
1	O	719	GLN
1	O	740	ASN
1	O	902	HIS
1	O	988	HIS
1	O	1016	ASN
1	O	1018	HIS
1	O	1031	HIS
1	O	1064	HIS
1	O	1306	ASN

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Mol	Chain	Res	Type
1	O	1376	HIS
2	X	73	ASN
1	P	24	ASN
1	P	44	HIS
1	P	129	HIS
1	P	157	ASN
1	P	180	ASN
1	P	214	ASN
1	P	305	GLN
1	P	539	ASN
1	P	546	GLN
1	P	653	ASN
1	P	676	HIS
1	P	732	ASN
1	P	882	HIS
1	P	885	HIS
1	P	888	GLN
1	P	892	ASN
1	P	914	GLN
1	P	954	HIS
1	P	988	HIS
1	P	1023	GLN
1	P	1081	GLN
1	P	1109	ASN
1	P	1304	ASN
1	P	1306	ASN
1	P	1321	GLN
1	P	1379	GLN
2	Y	15	ASN
2	Y	75	ASN
1	Q	112	GLN
1	Q	113	GLN
1	Q	126	GLN
1	Q	305	GLN
1	Q	429	ASN
1	Q	666	GLN
1	Q	674	GLN
1	Q	785	HIS
1	Q	803	HIS
1	Q	821	HIS
1	Q	882	HIS
1	Q	885	HIS

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Mol	Chain	Res	Type
1	Q	888	GLN
1	Q	900	ASN
1	Q	914	GLN
1	Q	944	ASN
1	Q	997	ASN
1	Q	1016	ASN
1	Q	1017	HIS
1	Q	1023	GLN
1	Q	1031	HIS
1	Q	1341	GLN
2	Z	46	HIS
1	R	24	ASN
1	R	112	GLN
1	R	113	GLN
1	R	129	HIS
1	R	130	ASN
1	R	195	GLN
1	R	214	ASN
1	R	414	ASN
1	R	455	GLN
1	R	480	HIS
1	R	595	ASN
1	R	685	HIS
1	R	740	ASN
1	R	785	HIS
1	R	793	ASN
1	R	882	HIS
1	R	887	HIS
1	R	902	HIS
1	R	1037	ASN
1	R	1058	GLN
1	R	1216	GLN
1	R	1329	GLN
2	a	72	HIS
1	S	44	HIS
1	S	113	GLN
1	S	180	ASN
1	S	323	GLN
1	S	455	GLN
1	S	552	ASN
1	S	595	ASN
1	S	620	HIS

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Mol	Chain	Res	Type
1	S	653	ASN
1	S	696	ASN
1	S	732	ASN
1	S	740	ASN
1	S	885	HIS
1	S	887	HIS
1	S	962	GLN
1	S	1028	HIS
1	S	1031	HIS
1	S	1058	GLN
1	S	1081	GLN
1	S	1159	HIS
1	S	1304	ASN
1	S	1306	ASN
1	S	1321	GLN
1	S	1366	HIS
1	T	113	GLN
1	T	122	HIS
1	T	129	HIS
1	T	180	ASN
1	T	217	GLN
1	T	248	HIS
1	T	267	GLN
1	T	277	HIS
1	T	451	GLN
1	T	480	HIS
1	T	536	HIS
1	T	595	ASN
1	T	651	HIS
1	T	653	ASN
1	T	656	ASN
1	T	712	GLN
1	T	731	HIS
1	T	792	HIS
1	T	793	ASN
1	T	803	HIS
1	T	860	GLN
1	T	882	HIS
1	T	954	HIS
1	T	1057	HIS
1	T	1064	HIS
1	T	1074	GLN

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Mol	Chain	Res	Type
1	T	1159	HIS
1	T	1200	GLN
1	T	1329	GLN
1	T	1341	GLN
2	c	72	HIS
2	c	103	ASN
1	U	34	ASN
1	U	129	HIS
1	U	214	ASN
1	U	501	GLN
1	U	533	HIS
1	U	539	ASN
1	U	595	ASN
1	U	620	HIS
1	U	696	ASN
1	U	732	ASN
1	U	740	ASN
1	U	799	ASN
1	U	821	HIS
1	U	895	ASN
1	U	902	HIS
1	U	1031	HIS
1	U	1058	GLN
1	U	1081	GLN
1	U	1100	HIS
1	U	1102	HIS
1	U	1118	HIS
1	U	1159	HIS
1	U	1200	GLN
2	d	72	HIS
1	B	108	GLN
1	B	113	GLN
1	B	129	HIS
1	B	180	ASN
1	B	195	GLN
1	B	248	HIS
1	B	346	HIS
1	B	403	GLN
1	B	480	HIS
1	B	539	ASN
1	B	578	GLN
1	B	597	ASN

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Mol	Chain	Res	Type
1	B	620	HIS
1	B	713	HIS
1	B	732	ASN
1	B	793	ASN
1	B	821	HIS
1	B	885	HIS
1	B	899	HIS
1	B	914	GLN
1	B	1037	ASN
1	B	1074	GLN
1	B	1081	GLN
1	B	1146	GLN
1	B	1159	HIS
1	B	1304	ASN
1	B	1341	GLN
1	B	1376	HIS
2	H	43	GLN
2	H	75	ASN
1	C	122	HIS
1	C	129	HIS
1	C	130	ASN
1	C	305	GLN
1	C	346	HIS
1	C	403	GLN
1	C	468	GLN
1	C	533	HIS
1	C	536	HIS
1	C	539	ASN
1	C	588	ASN
1	C	614	GLN
1	C	620	HIS
1	C	656	ASN
1	C	740	ASN
1	C	803	HIS
1	C	813	GLN
1	C	888	GLN
1	C	892	ASN
1	C	895	ASN
1	C	900	ASN
1	C	954	HIS
1	C	1023	GLN
1	C	1028	HIS

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Mol	Chain	Res	Type
1	C	1100	HIS
1	E	78	ASN
1	E	113	GLN
1	E	122	HIS
1	E	284	GLN
1	E	451	GLN
1	E	480	HIS
1	E	495	GLN
1	E	539	ASN
1	E	595	ASN
1	E	620	HIS
1	E	696	ASN
1	E	732	ASN
1	E	740	ASN
1	E	792	HIS
1	E	795	GLN
1	E	813	GLN
1	E	820	HIS
1	E	900	ASN
1	E	1058	GLN
1	E	1081	GLN
1	E	1100	HIS
1	E	1102	HIS
1	E	1304	ASN
1	E	1348	GLN
2	J	37	ASN
2	J	103	ASN
1	F	24	ASN
1	F	44	HIS
1	F	113	GLN
1	F	277	HIS
1	F	301	GLN
1	F	377	ASN
1	F	427	GLN
1	F	480	HIS
1	F	533	HIS
1	F	536	HIS
1	F	595	ASN
1	F	620	HIS
1	F	674	GLN
1	F	713	HIS
1	F	732	ASN

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Mol	Chain	Res	Type
1	F	792	HIS
1	F	882	HIS
1	F	887	HIS
1	F	888	GLN
1	F	899	HIS
1	F	1017	HIS
1	F	1064	HIS
1	F	1109	ASN
1	F	1146	GLN
1	F	1177	ASN
1	F	1223	ASN
1	F	1267	GLN
1	F	1269	HIS
1	F	1329	GLN
1	F	1341	GLN
2	K	15	ASN
1	G	75	ASN
1	G	214	ASN
1	G	221	HIS
1	G	468	GLN
1	G	480	HIS
1	G	533	HIS
1	G	534	HIS
1	G	536	HIS
1	G	541	HIS
1	G	651	HIS
1	G	674	GLN
1	G	713	HIS
1	G	732	ASN
1	G	740	ASN
1	G	795	GLN
1	G	821	HIS
1	G	882	HIS
1	G	888	GLN
1	G	914	GLN
1	G	962	GLN
1	G	980	ASN
1	G	1023	GLN
1	G	1028	HIS
1	G	1031	HIS
1	G	1037	ASN
1	G	1348	GLN

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Mol	Chain	Res	Type
1	G	1379	GLN
2	L	37	ASN
2	L	103	ASN
3	e	160	GLN
3	e	273	ASN
3	e	282	GLN
3	e	312	HIS
3	e	344	GLN
4	j	38	HIS
4	j	181	ASN
4	j	213	ASN
4	o	53	ASN
4	o	85	HIS
4	o	100	ASN
4	o	315	GLN
3	f	124	GLN
3	f	160	GLN
3	f	429	GLN
4	k	38	HIS
4	k	85	HIS
4	k	108	ASN
4	k	142	GLN
4	k	181	ASN
4	k	193	HIS
4	p	229	GLN
4	p	232	HIS
3	g	247	GLN
3	g	344	GLN
4	l	24	GLN
4	l	38	HIS
4	l	53	ASN
4	l	99	GLN
4	l	315	GLN
4	q	38	HIS
4	q	99	GLN
4	q	207	ASN
3	h	273	ASN
3	h	344	GLN
4	m	24	GLN
4	m	53	ASN
4	m	142	GLN
4	m	192	GLN

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Mol	Chain	Res	Type
4	m	207	ASN
4	m	213	ASN
4	r	85	HIS
4	r	142	GLN
4	r	207	ASN
4	r	229	GLN
4	r	251	GLN
3	i	247	GLN
3	i	273	ASN
3	i	282	GLN
3	i	344	GLN
3	i	365	ASN
4	n	99	GLN
4	n	315	GLN
4	s	38	HIS
4	s	85	HIS
4	s	100	ASN
4	s	192	GLN
4	s	213	ASN
4	s	315	GLN
1	z	113	GLN
1	z	122	HIS
1	z	157	ASN
1	z	195	GLN
1	z	284	GLN
1	z	1037	ASN
1	z	1081	GLN
1	z	1143	ASN
1	z	1146	GLN
1	z	1147	ASN
1	z	1223	ASN
1	z	1348	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

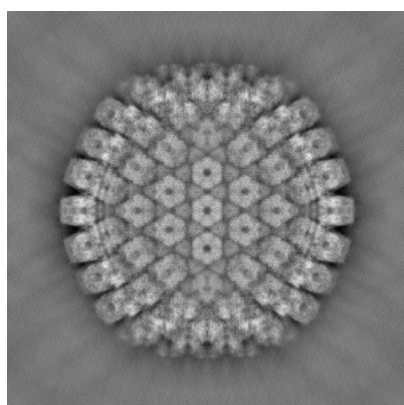
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0881. These allow visual inspection of the internal detail of the map and identification of artifacts.

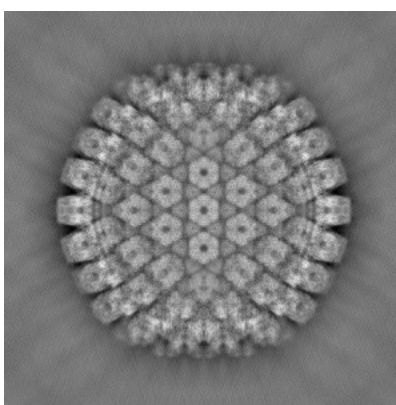
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

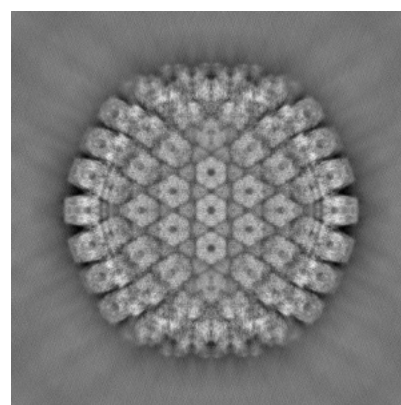
6.1.1 Primary map



X



Y

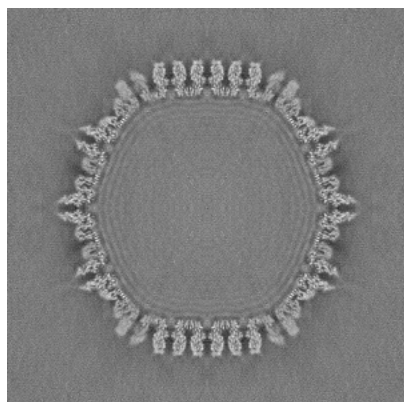


Z

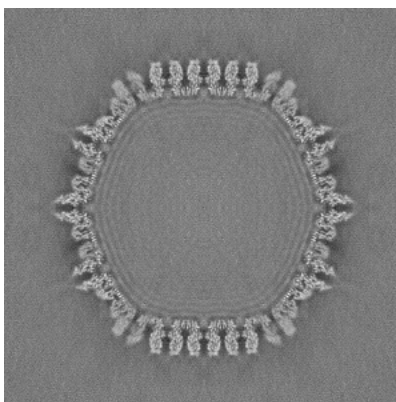
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

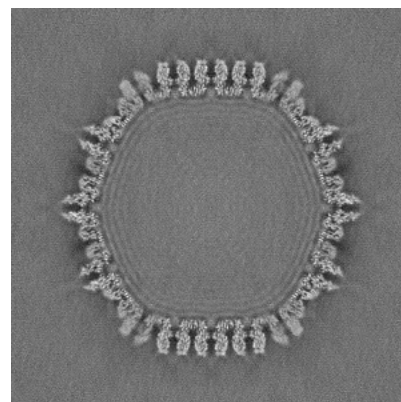
6.2.1 Primary map



X Index: 640



Y Index: 640

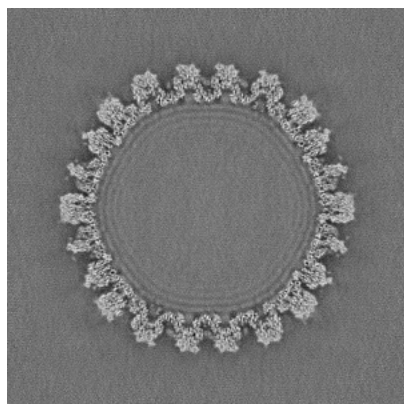


Z Index: 640

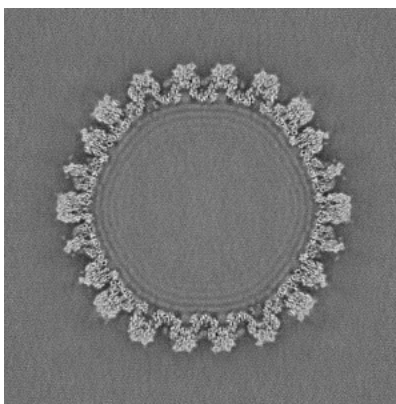
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

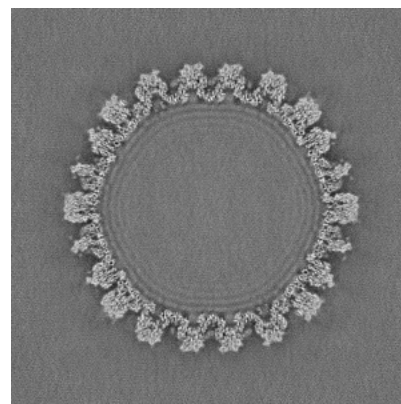
6.3.1 Primary map



X Index: 742



Y Index: 538

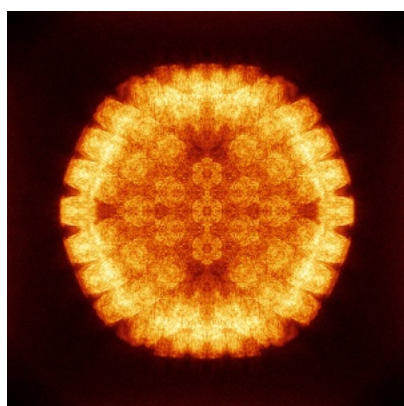


Z Index: 537

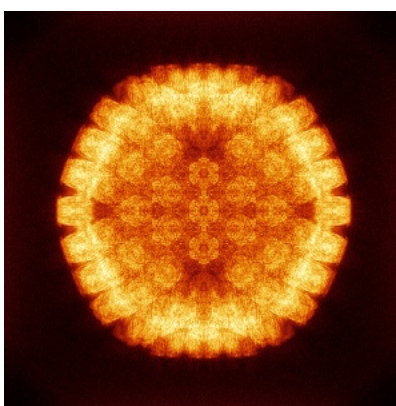
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

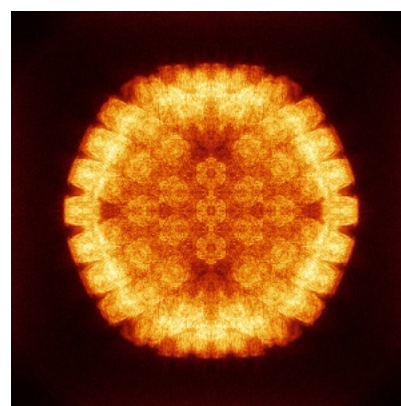
6.4.1 Primary map



X



Y



Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views

This section was not generated.

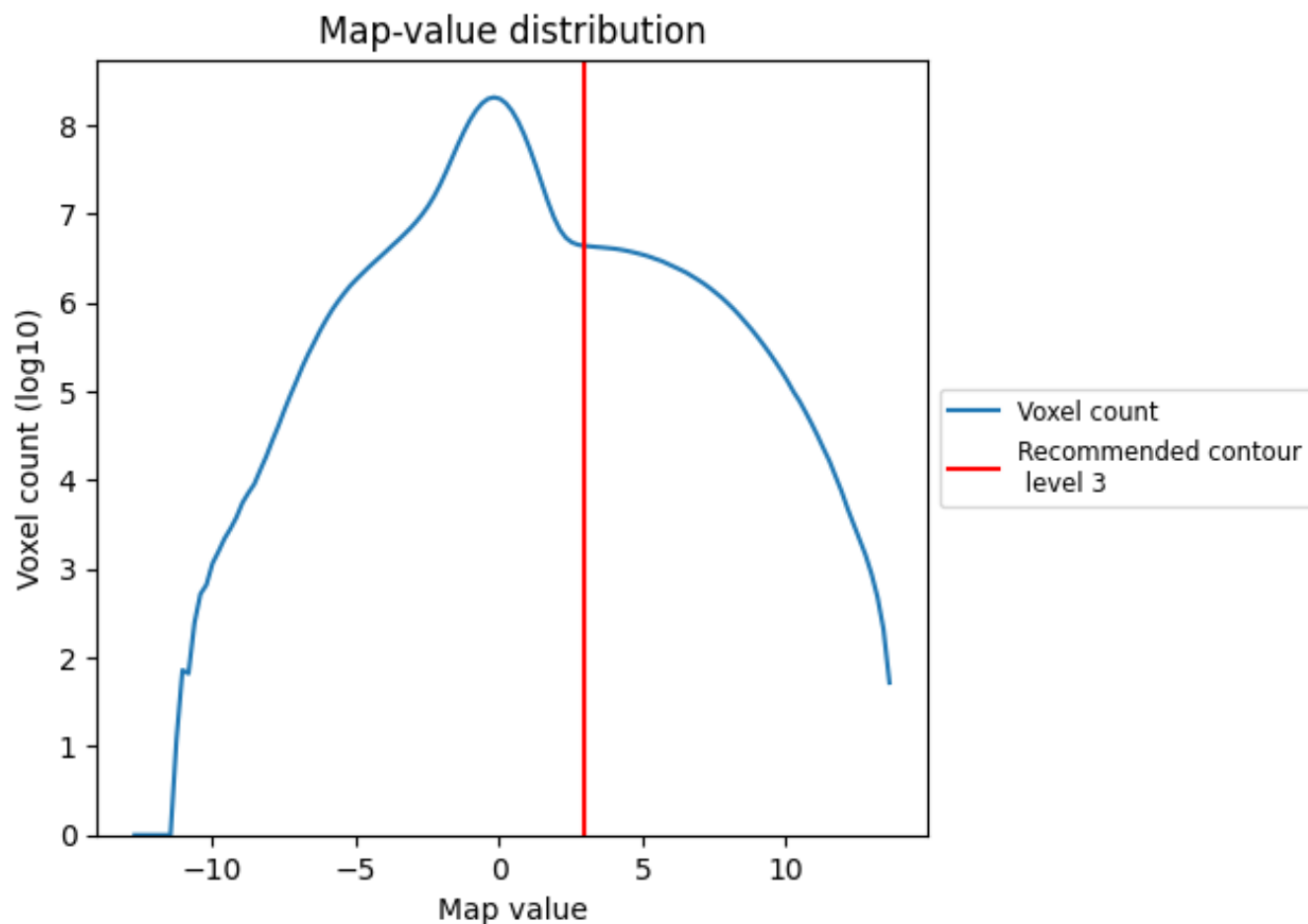
6.6 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

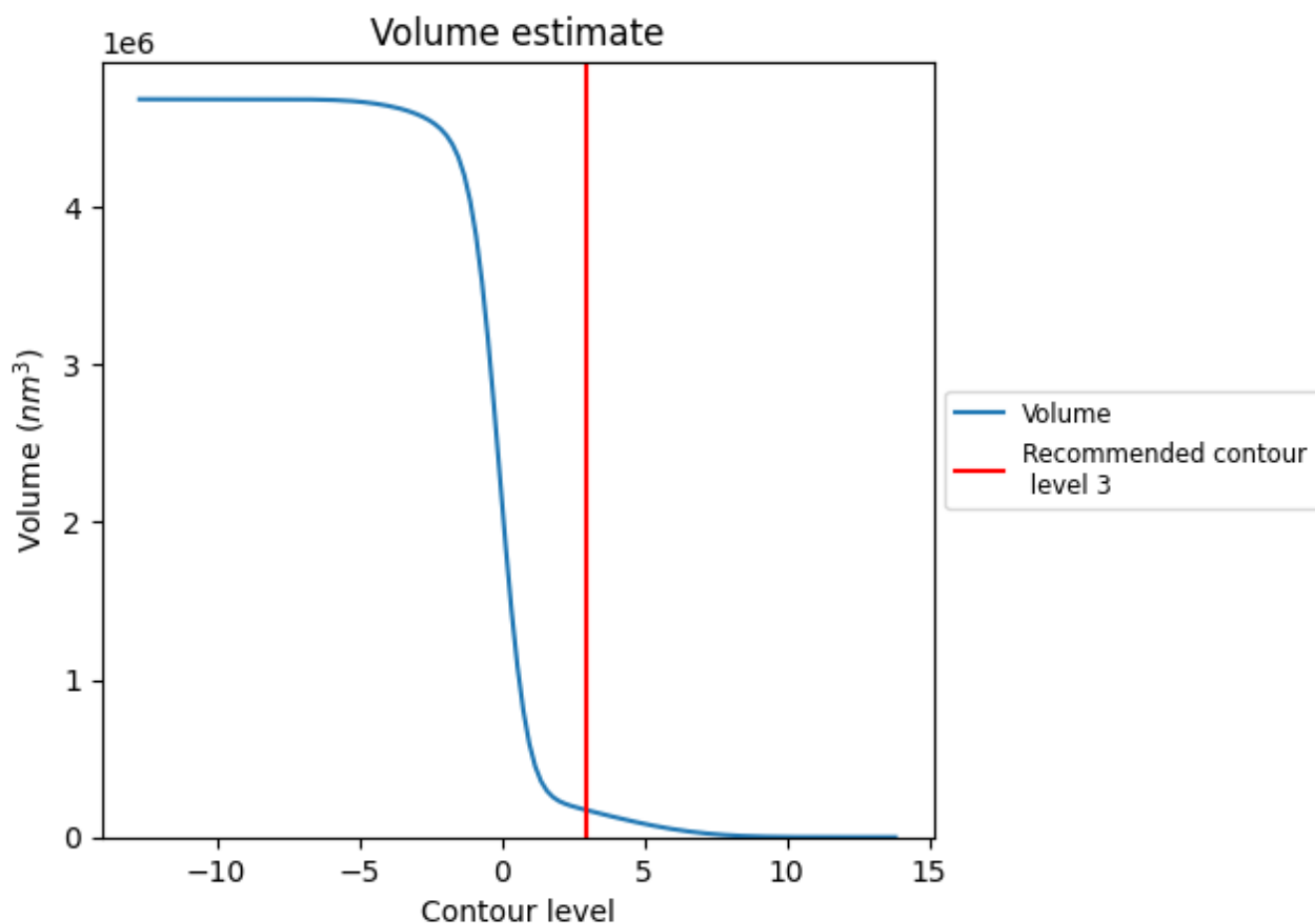
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

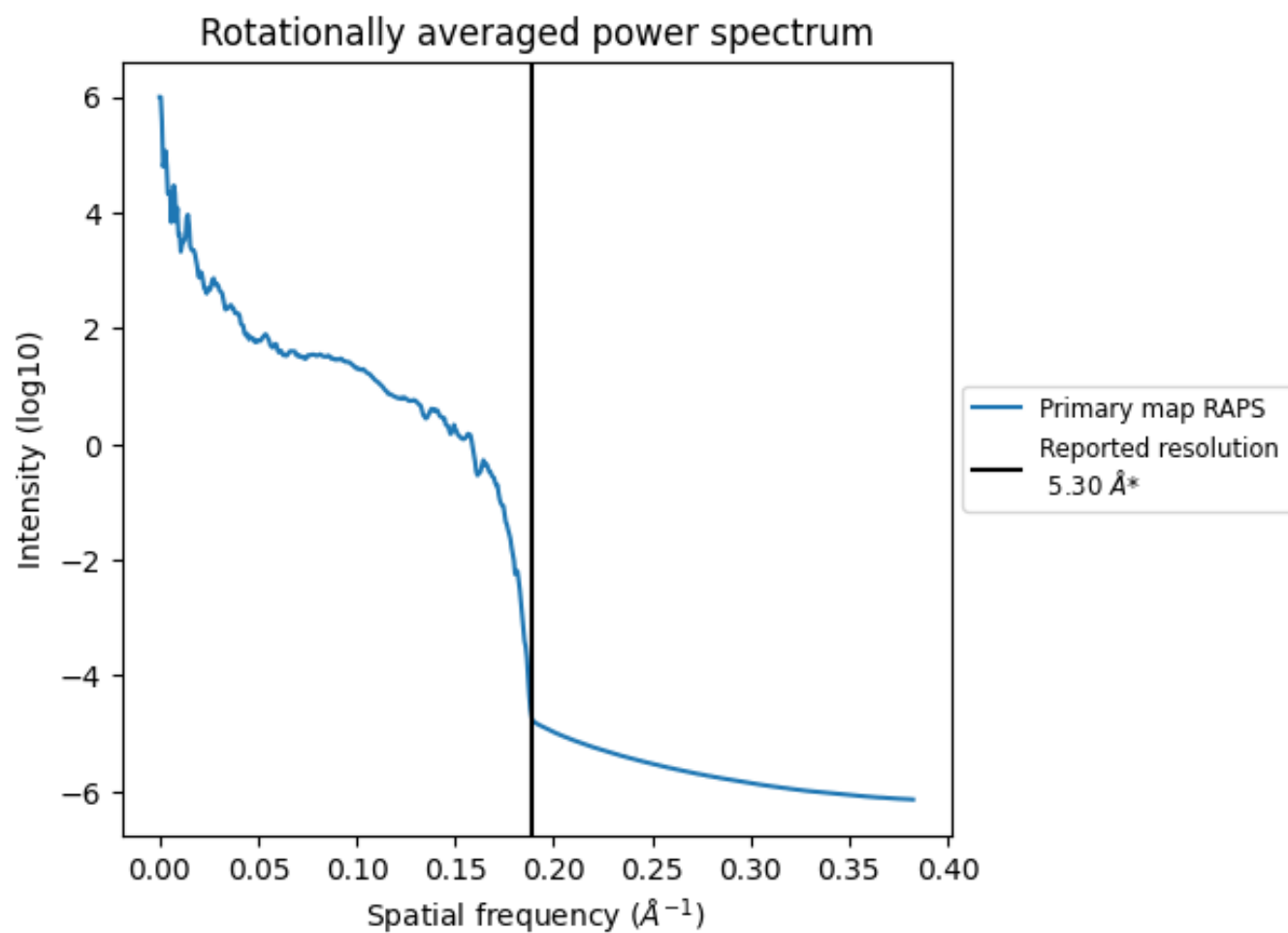
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 170845 nm³; this corresponds to an approximate mass of 154328 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.189 Å⁻¹

8 Fourier-Shell correlation

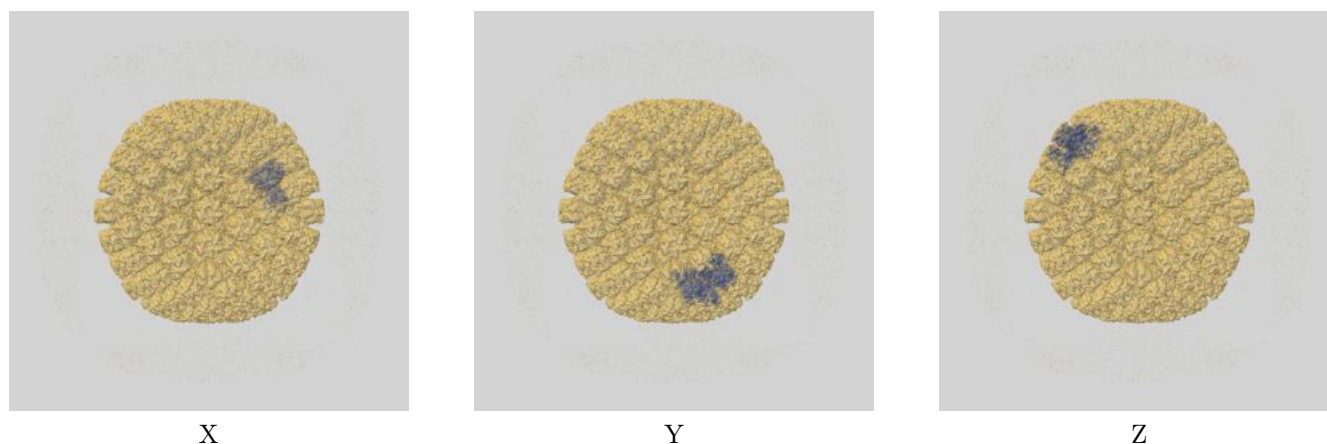
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-0881 and PDB model 6LGN. Per-residue inclusion information can be found in section 3 on page 8.

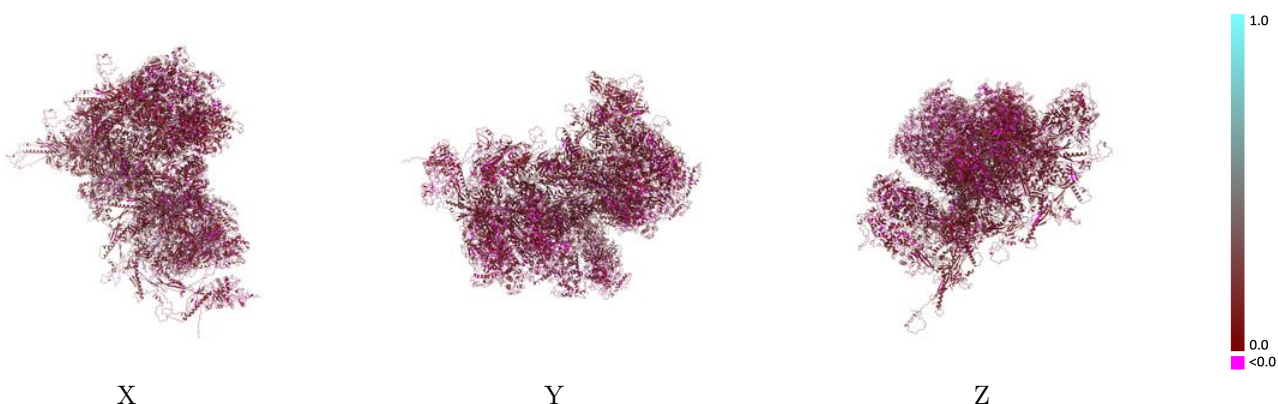
9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)



The images above show the 3D surface view of the map at the recommended contour level 3.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)

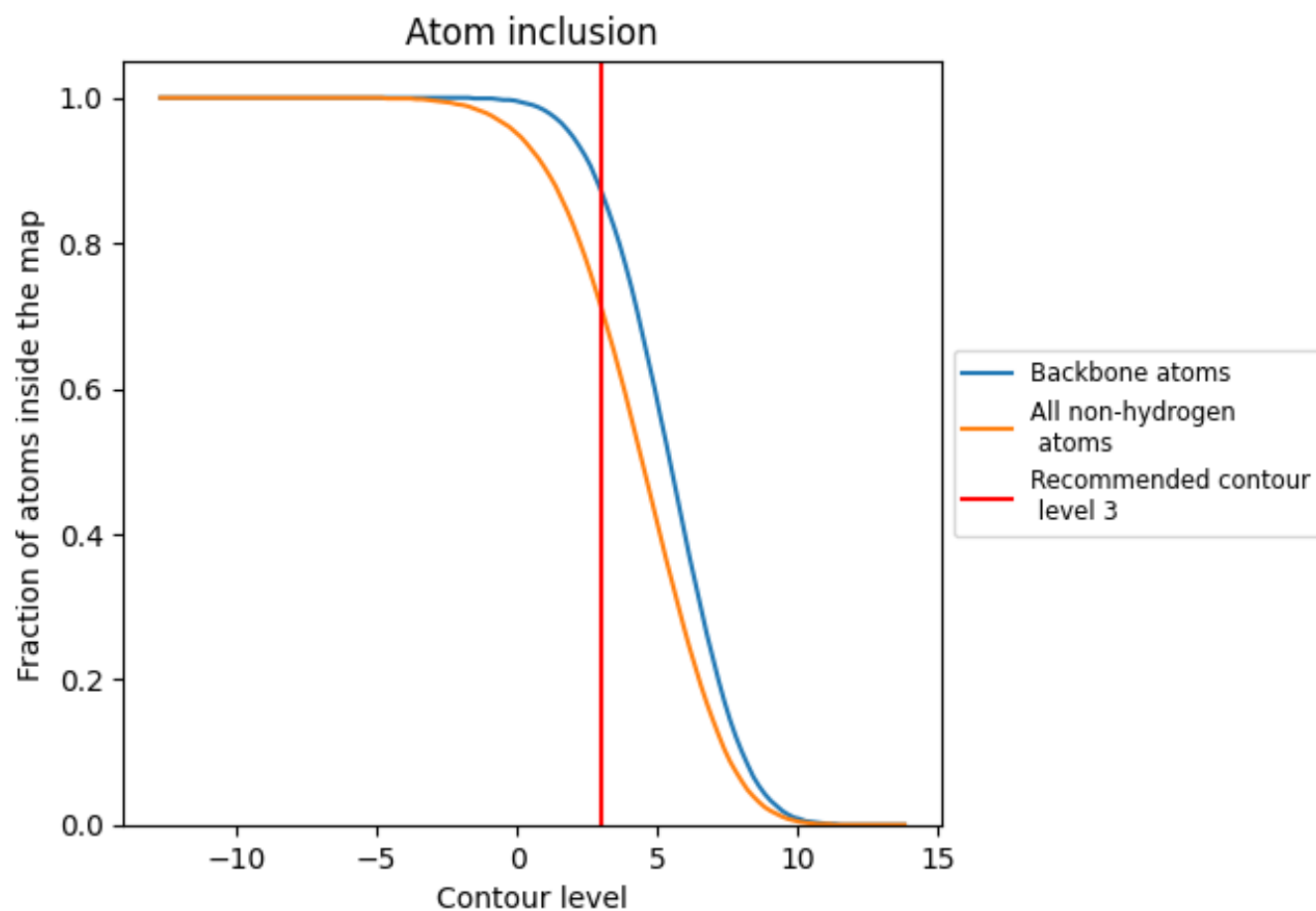


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 87% of all backbone atoms, 71% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7120	 0.1190
A	 0.6990	 0.1210
B	 0.7370	 0.1130
C	 0.7210	 0.1170
D	 0.8800	 0.1070
E	 0.7020	 0.1160
F	 0.7280	 0.1190
G	 0.7360	 0.1160
H	 0.8860	 0.1060
I	 0.9130	 0.1090
J	 0.9050	 0.1100
K	 0.8960	 0.1230
L	 0.8570	 0.1010
M	 0.7010	 0.1190
N	 0.7350	 0.1200
O	 0.7310	 0.1210
P	 0.7340	 0.1220
Q	 0.7240	 0.1200
R	 0.7070	 0.1180
S	 0.7300	 0.1200
T	 0.7230	 0.1180
U	 0.7100	 0.1160
V	 0.8420	 0.0970
W	 0.8990	 0.1030
X	 0.8810	 0.1050
Y	 0.8900	 0.0780
Z	 0.8770	 0.0950
a	 0.9040	 0.0980
b	 0.8780	 0.0990
c	 0.9160	 0.1090
d	 0.8770	 0.0910
e	 0.5570	 0.1220
f	 0.7060	 0.1310
g	 0.7200	 0.1240
h	 0.7060	 0.1300



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Chain	Atom inclusion	Q-score
i	 0.6880	 0.1310
j	 0.5190	 0.1260
k	 0.6540	 0.1310
l	 0.6970	 0.1430
m	 0.6500	 0.1410
n	 0.6260	 0.1440
o	 0.4990	 0.1220
p	 0.6270	 0.1310
q	 0.6450	 0.1380
r	 0.5940	 0.1380
s	 0.6040	 0.1370
z	 0.5410	 0.1000